

SECTION **LAN**  
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**PRECAUTIONS**

PFP:00001

**Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”**

NKS003X0

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

**Precautions When Using CONSULT-II**

NKS003XP

When connecting CONSULT-II to data link connector, connect them through CONSULT-II CONVERTER.

**CAUTION:**

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

**CHECK POINTS FOR USING CONSULT-II**

1. Has CONSULT-II been used without connecting CONSULT-II CONVERTER on this vehicle?
  - If YES, GO TO 2.
  - If NO, GO TO 5.
2. Is there any indication other than indications relating to CAN communication system in the self-diagnosis results?
  - If YES, GO TO 3.
  - If NO, GO TO 4.
3. Based on self-diagnosis results unrelated to CAN communication, carry out the inspection.
4. Malfunctions may be detected in self-diagnosis depending on control units carrying out CAN communication. Therefore, erase the self-diagnosis results.
5. Diagnose CAN communication system. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#) .

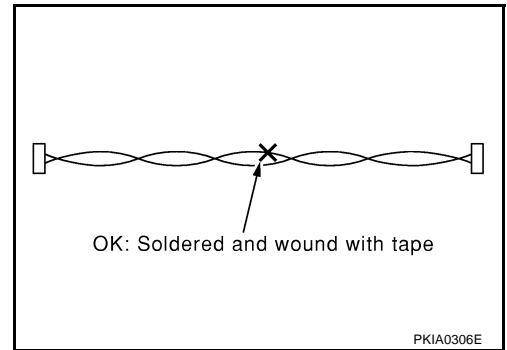
**Precautions For Trouble Diagnosis  
CAN SYSTEM**

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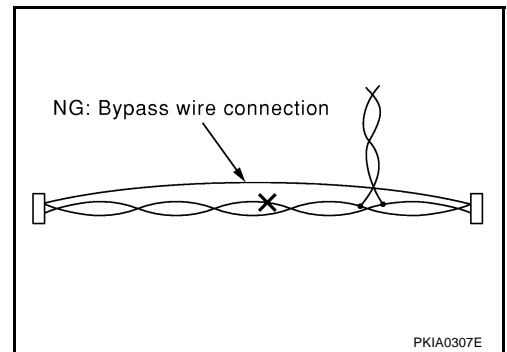
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

### Precautions For Harness Repair CAN SYSTEM

- Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]



- Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)



## TROUBLE DIAGNOSES WORK FLOW

PPF:00004

### When Displaying CAN Communication System Errors

NKS003XS

#### WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

- CAN communication line is open. (CAN H, CAN L, or both)
- CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)
- The areas related to CAN communication of unit is malfunctioning.

#### WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

- Removal and installation of parts: When the units that perform CAN communication or the sensors related to CAN communication are removed and installed, malfunction may be detected (or DTC other than CAN communication may be detected).
- Fuse blown out (removed): CAN communication of the unit may be stopped at such time.
- Low voltage: If the voltage decreases because of battery discharge when IGN is ON, malfunction may be detected by self-diagnosis according to the units.

A

B

C

D

E

F

G

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I

J

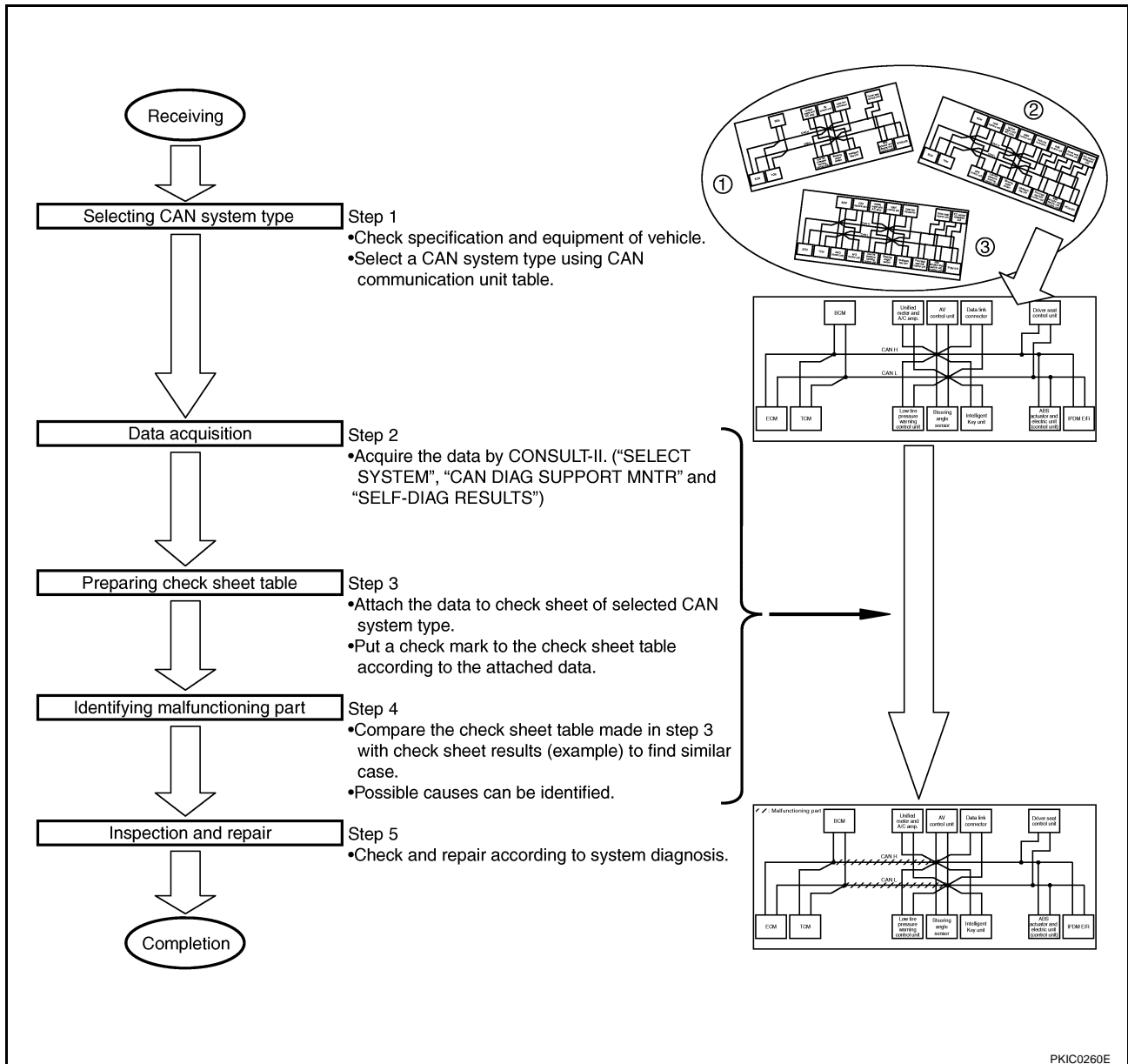
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## TROUBLE DIAGNOSIS FLOW CHART

Depending on the control unit which performs CAN communication, "U1010" may be indicated as the result of self-diagnosis. Replace the control unit if "U1010" is indicated.



- Step 1: Refer to [LAN-11, "SELECTING CAN SYSTEM TYPE \(HOW TO USE SPECIFICATION TABLE\)"](#) .
- Step 2: Refer to [LAN-12, "ACQUISITION OF DATA BY CONSULT-II"](#) .
- Step 3: Refer to [LAN-14, "HOW TO USE CHECK SHEET TABLE"](#) .
- Step 4: Refer to [LAN-15, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- Step 5: Check and repair according to system diagnosis.

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

NKS003XT

## Diagnosis Procedure

### SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)

Determine CAN system type from the equipment of the vehicle to select applicable check sheet.

(Example) Sedan/2WD/VQ35DE/AT/VDC/Without navigation system/Without pre-crash seat belt/Without adaptive front-lighting system /Without ICC system/Without lane departure warning/Without rear active steer

#### CAN Communication Unit

Go to CAN system, when selecting your CAN system type from the following table.

Body type	Sedan														
Axle	2WD							AWD							
Engine	VQ35DE/VK45DE							VQ35DE							
Transmission	A/T														
Brake control	VDC														
Navigation system		x		x	x		x		x	x		x		x	x
Pre-crash seat belt			x	x	x			x	x	x			x	x	x
Adaptive front-lighting system			x	x	x	x	x	x	x	x			x	x	x
ICC system					x					x					x
Lane departure warning					x					x					x
Rear active steer						x	x	x	x	x					
CAN system type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CAN system trouble diagnosis															

x: Applicable

Check basic specifications of the vehicle.

Select "x" if it is model with navigation system.

Select "x" if it is model with pre-crash seat belt.

Select "x" if it is model with adaptive front-lighting system.

Select "x" if it is model with ICC system.

Select "x" if it is model with lane departure warning.

Select "x" if it is model with rear active steer.

Which number is selected when sequentially selecting from the top of the specification table? The number is "CAN system type" of the applicable vehicle.

In the case of this example: It corresponds to type 1.

PKIC9873E

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# TROUBLE DIAGNOSES WORK FLOW

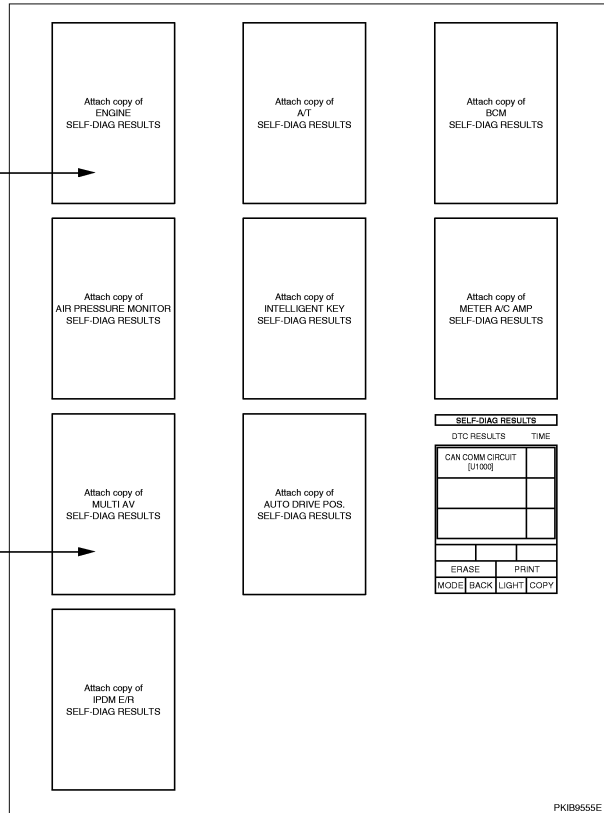
[CAN]

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Copy "SELF-DIAG RESULTS" screen of CONSULT-II.

SELF-DIAG RESULTS			
DTC RESULTS		TIME	
CAN COMM CIRCUIT [U1001]			
ERASE		PRINT	
MODE	BACK	LIGHT	COPY

SELF-DIAG RESULTS			
DTC RESULTS		TIME	
CAN COMM CIRCUIT [U1000]			
ERASE		PRINT	
MODE	BACK	LIGHT	COPY

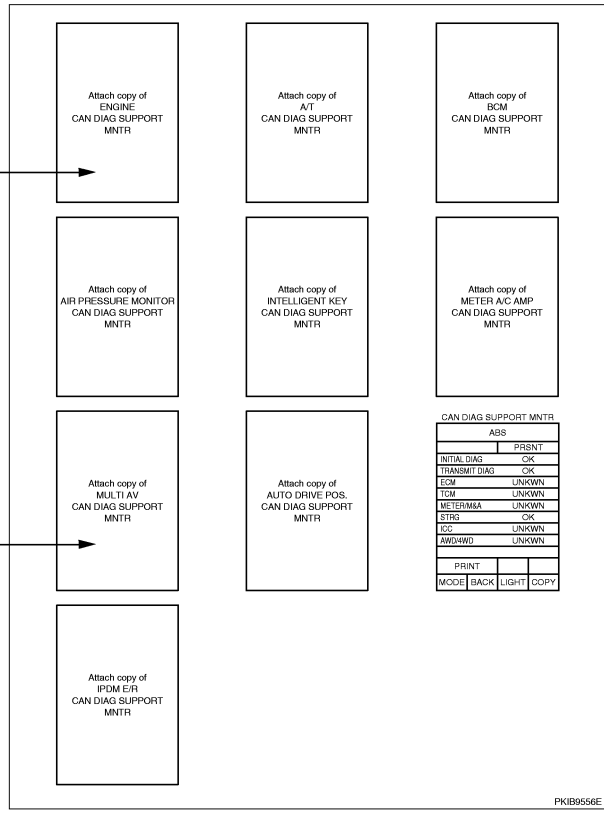


Copy "CAN DIAG SUPPORT MNTR" screen of CONSULT-II.

CAN DIAG SUPPORT MNTR			
ENGINE			
	PRSN	PAST	
TRANSMIT DIAG	OK	OK	
VDC/TC/ABS	UNKWN	0	
METER/M&A	UNKWN	0	
BCM/SEC	OK	OK	
ICC	-	-	
HVAC	OK	OK	
TCM	OK	OK	
EPS	-	-	
IPDM E/R	UNKWN	0	
PRINT			Scroll Down
MODE	BACK	LIGHT	COPY

CAN DIAG SUPPORT MNTR			
ENGINE			
	PRSN	PAST	
METER/M&A	UNKWN	0	
BCM/SEC	OK	OK	
ICC	-	-	
HVAC	OK	OK	
TCM	OK	OK	
EPS	-	-	
IPDM E/R	UNKWN	0	
e4WD	-	-	
AWD/4WD	-	-	
PRINT			Scroll Up
MODE	BACK	LIGHT	COPY

CAN DIAG SUPPORT MNTR			
MULTI AV			
	PRSN	PAST	
TRANSMIT DIAG	OK	OK	
ECM	UNKWN	0	
METER/M&A	OK	OK	
BCM/SEC	UNKWN	0	
HVAC	OK	OK	
IPDM E/R	OK	OK	
TIRE-P	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY



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PKIC0263E

## HOW TO USE CHECK SHEET TABLE

Check sheet table		Use when the initial conditions are reproduced												Use when the initial conditions are not reproduced		
		SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
					ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

① Unit that performs CAN communication diagnosis

② SELECT SYSTEM screen

③ Initial diagnosis

④ Transmit diagnosis

⑤ CAN DIAG SUPPORT MNTR

PKIC0264E

- Unit names displayed on CONSULT-II
- “No indication”: Put a check mark to it if the unit name described in step 1 is not displayed on “SELECT SYSTEM” screen of CONSULT-II. (Unit communicating with CONSULT-II via CAN communication line)  
“—”: Column not used (Unit communicating with CONSULT-II excluding CAN communication line)
- “NG”: Display “NG” when malfunction is detected in the initial diagnosis of the diagnosed unit. Replace the unit if “NG” is displayed.  
“—”: Column not used (Initial diagnosis is not performed.)
- “UNKWN”: Display “UNKWN” when the diagnosed unit does not transmit the data normally. Put a check mark to it if “UNKWN” is displayed on CONSULT-II.  
“—”: Column not used (Transmit diagnosis is not performed.)
- “UNKWN”: Display “UNKWN” when the diagnosed unit does not receive the data normally. Put a check mark to it if “UNKWN” is displayed on CONSULT-II.  
“—”: Column not used (It is not necessary for CAN communication trouble diagnosis.)

**NOTE:**

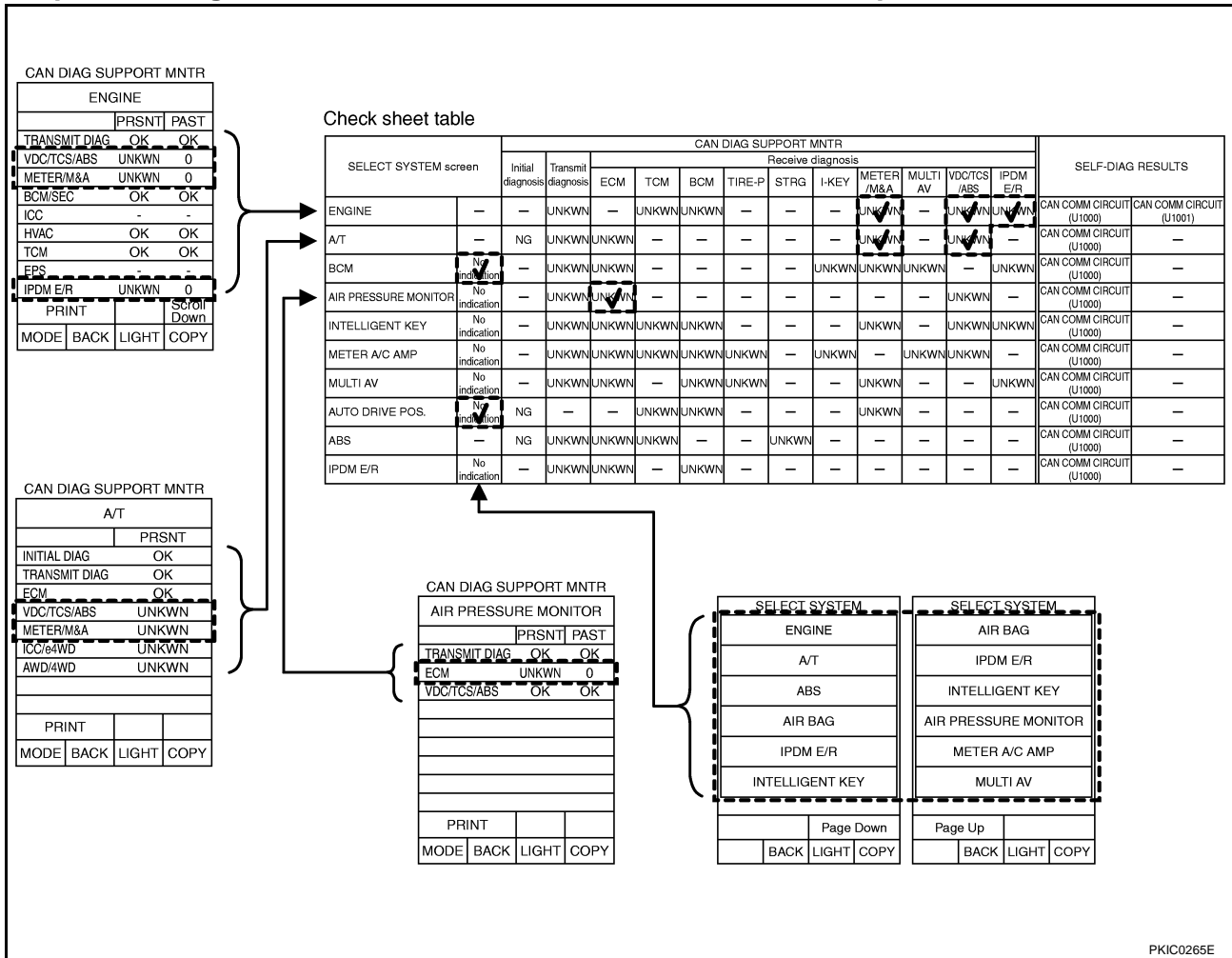
CAN communication diagnosis checks if CAN communication works normally. (Contents of data are not diagnosed.)

- When the initial conditions are reproduced. Refer to [LAN-15, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- When the initial conditions are not reproduced. Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#) .

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## Example of Filling in Check Sheet When Initial Conditions Are Reproduced



- Put a check mark to "No indication" if some of unit names listed on the column of diagnosis system selection screen of a check sheet table are not displayed on "SELECT SYSTEM" screen attached to the check sheet.

**NOTE:**

Put a check mark to "No indication" of BCM and AUTO DRIVE POS. because BCM and AUTO DRIVE POS. is not displayed on "SELECT SYSTEM" screen.

- Confirm the unit name that "UNKWN" is displayed from the copy of "CAN DIAG SUPPORT MNTR" screen of "ENGINE" attached to the check sheet, and then put a check mark to the check sheet table.

**NOTE:**

In "CAN DIAG SUPPORT MNTR" screen, "UNKWN" is displayed on "VDC/TCS/ABS", "METER/M&A" and "IPDM E/R". Put a check mark to it.

- Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "A/T" and "AIR PRESSURE MONITOR" as well as "ENGINE". And then, put a check mark to the check sheet table.

**NOTE:**

- For "A/T", "UNKWN" is displayed on "VDC/TCS/ABS", "METER/M&A", "ICC/e4WD" and "AWD/4WD". But put a check mark to "VDC/TCS/ABS" and "METER/M&A" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

- For "AIR PRESSURE MONITOR", "UNKWN" is displayed on "ECM". Put a check mark to it.

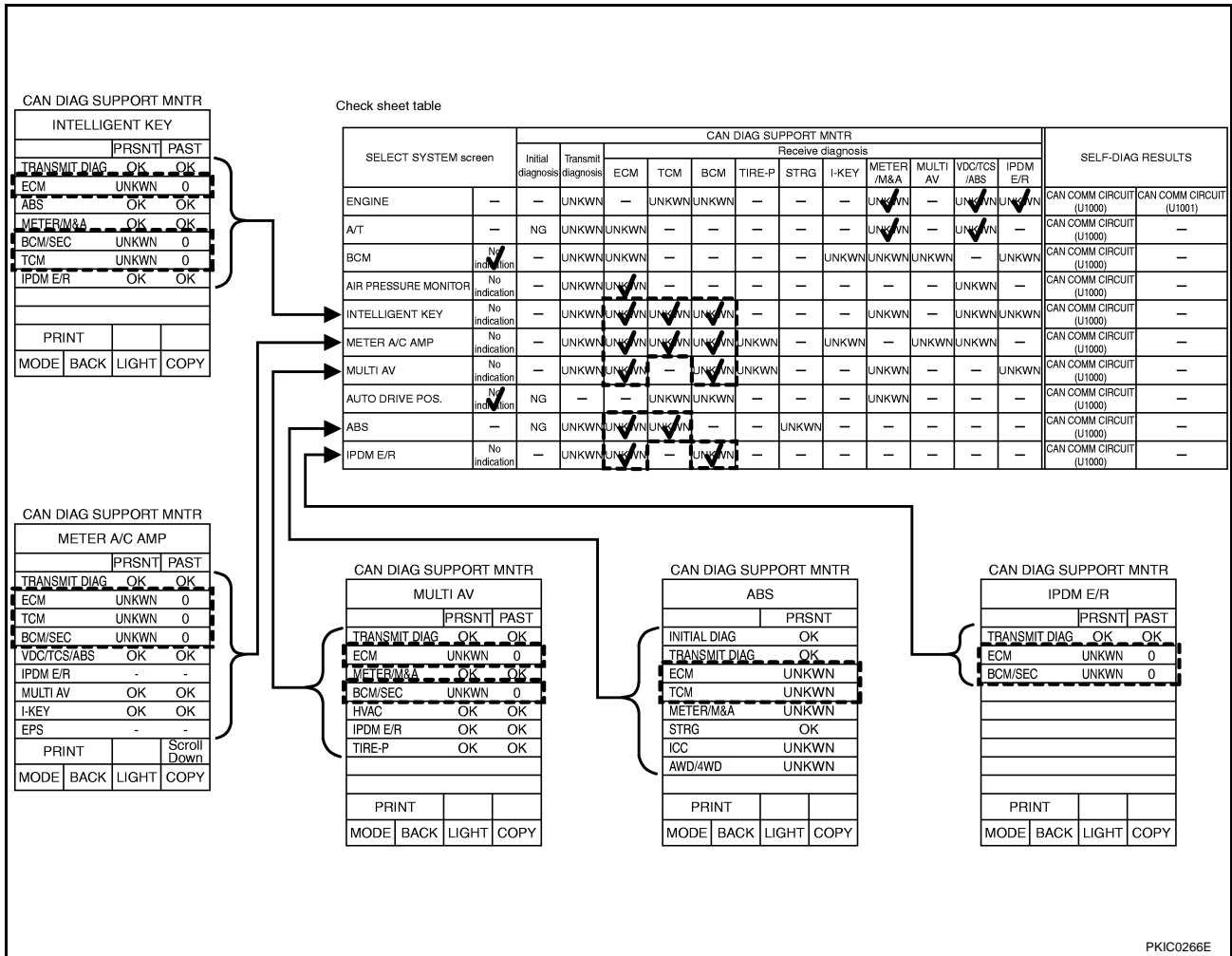
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# TROUBLE DIAGNOSES WORK FLOW

[CAN]



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4. Confirm the unit name that “UNKWN” is displayed on the copy of “CAN DIAG SUPPORT MNTR” screen of “INTELLIGENT KEY”, “METER A/C AMP”, “MULTI AV”, “ABS” and “IPDM E/R” as well as “ENGINE”. And then, put a check mark to the check sheet table.

**NOTE:**

- For “INTELLIGENT KEY”, “UNKWN” is displayed on “ECM”, “BCM/SEC” and “TCM”. Put a check mark to it.
- For “METER A/C AMP”, “UNKWN” is displayed on “ECM”, “TCM” and “BCM/SEC”. Put a check mark to it.
- For “MULTI AV”, “UNKWN” is displayed on “ECM” and “BCM/SEC”. Put a check mark to it.
- For “ABS”, “UNKWN” is displayed on “ECM”, “TCM”, “METER/M&A”, “ICC” and “AWD/4WD”. But put a check mark to “ECM” and “TCM” because “UNKWN” is listed on the column of reception diagnosis of the check sheet table.
- For “IPDM E/R”, “UNKWN” is displayed on “ECM” and “BCM/SEC”. Put a check mark to it.

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

The arranged results of CAN diagnosis support monitor

Check sheet table

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS					
			Receive diagnosis															
			ECM	TCM	BCM	TIRE-P	STFRG	I-KEY	METER /M&A	MULTI AV	VDGTC/ABS	IPDM E/R						
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	-	UNKWN	UNKWN	-	-	-	-	-	-	UNKWN	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
AIR PRESSURE MONITOR	No indication	-	UNKWN	UNKWN	-	-	-	-	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
MULTI AV	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

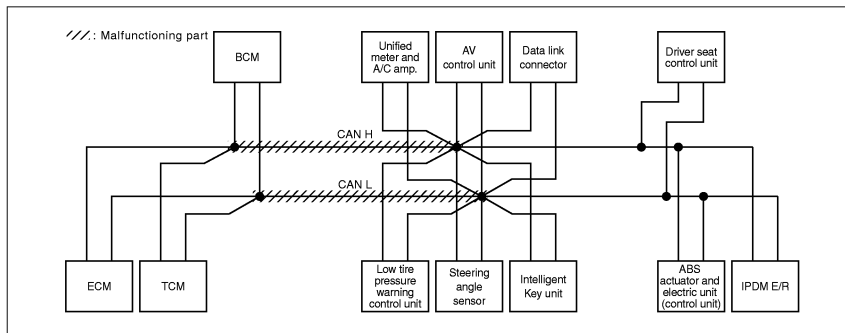
Choose similar indications between the results of CAN diagnosis support monitor and the results of the check sheet. Malfunctioning parts are found.

## Case 1

Check harness between TCM and data link connector.

Check sheet results (example)

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS					
			Receive diagnosis															
			ECM	TCM	BCM	TIRE-P	STFRG	I-KEY	METER /M&A	MULTI AV	VDGTC/ABS	IPDM E/R						
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	-	UNKWN	UNKWN	-	-	-	-	-	-	UNKWN	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
AIR PRESSURE MONITOR	No indication	-	UNKWN	UNKWN	-	-	-	-	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
MULTI AV	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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## NOTE:

There is a case that some of "CAN DIAG SUPPORT MNTR" and "SELF-DIAG RESULTS" are not needed for diagnosis. In the case, "UNKWN" and "CAN COMM CIRCUIT(U1000)" in "Check sheet results (example)" change to "-". Then, ignore check marks on the Check sheet table.

- Perform system diagnosis for possible causes identified.
- Perform diagnosis again after inspection and repair. Make sure that repair is completely performed, and then end the procedure.

Start CAN system trouble diagnosis if this procedure can be confirmed. Refer to [LAN-34, "CAN Communication Unit"](#).

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced

Check sheet table

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS			
			ECM	TCM	BCM	TIRE-P	STRG	L-KEY	METER /M/A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT [U1001]	CAN COMM CIRCUIT [U1001]
A/T	-	NG	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT [U1000]	-
BCM	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT [U1000]	-
AIR PRESSURE MONITOR	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT [U1000]	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	-	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT [U1000]	-
MULTI AV	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT [U1000]	-
AUTO DRIVE POS.	No indication	NG	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	-



<p>SYSTEM ENGINE</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>CAN COMM CIRCUIT [U1001] 1t</p>	<p>SYSTEM A/T</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>CAN COMM CIRCUIT [U1000]</p>	<p>SYSTEM BCM</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>CAN COMM CIRCUIT [U1000]</p>	<p>SYSTEM AIRPRESSURE MONITOR</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>CAN COMM CIRCUIT [U1000]</p>	<p>SYSTEM INTELLIGENT KEY</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>CAN COMM CIRCUIT [U1000]</p>
<p>SYSTEM METER A/C AMP</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>CAN COMM CIRCUIT [U1000] 1</p>	<p>SYSTEM MULTI AV</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>CAN COMM CIRCUIT [U1000] PAST</p>	<p>SYSTEM AUTO DRIVE POS.</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.</p>	<p>SYSTEM ABS</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>CAN COMM CIRCUIT [U1000] 1</p>	<p>SYSTEM IPDM E/R</p> <p>SELF-DIAG RESULTS</p> <p>DTC RESULTS TIME</p> <p>CAN COMM CIRCUIT [U1000] PAST</p>

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- See "SELF-DIAG RESULTS" of all units attached to the check sheet. If "CAN COMM CIRCUIT [U1000]" or "CAN COMM CIRCUIT [U1001]" is displayed, put a check mark to the applicable column of self-diagnostic results of the check sheet table.

**NOTE:**

- For "ENGINE", "CAN COMM CIRCUIT [U1001]" are displayed. Put a check mark to it.
- For "A/T", "CAN COMM CIRCUIT [U1000]" are displayed. Put a check mark to it.
- For "BCM", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "AIR PRESSURE MONITOR", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "INTELLIGENT KEY", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "METER A/C AMP", "CAN COMM CIRCUIT [U1000]" are displayed. Put a check mark to it.
- For "MULTI AV", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "AUTO DRIVE POS.", "NO DTC IS DETECTED" are displayed. Do not put a check mark to it.
- For "ABS", "CAN COMM CIRCUIT [U1000]" are displayed. Put a check mark to it.
- For "IPDM E/R", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.

The arranged results of self-diagnosis

Check sheet table

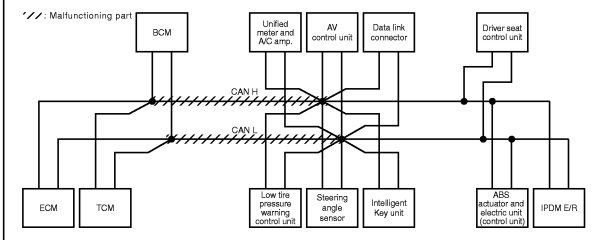
SELECT SYSTEM screen	Initial diagnosis	Transfer diagnosis	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
			Receive diagnosis																
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER	MULTI	DDOTES	IPDM	MMA	AV	AVS	ESP			
ENGINE	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
A/T	--	NG	UNKWN	UNKWN	--	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
BCM	No indicator	--	UNKWN	UNKWN	--	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
AIR PRESSURE MONITOR	No indicator	--	UNKWN	UNKWN	--	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
INTELLIGENT KEY	No indicator	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
METER AC AMP	No indicator	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
MULTI AV	No indicator	--	UNKWN	UNKWN	--	UNKWN	UNKWN	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
AUTO DRIVE POS.	No indicator	NG	--	--	UNKWN	UNKWN	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
ABS	--	NG	UNKWN	UNKWN	UNKWN	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indicator	--	UNKWN	UNKWN	--	UNKWN	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)

When the arranged results of self-diagnosis and check sheet results (example) are corresponding, possible causes can be selected.

**Case 1**

Check harness between TCM and data link connector.

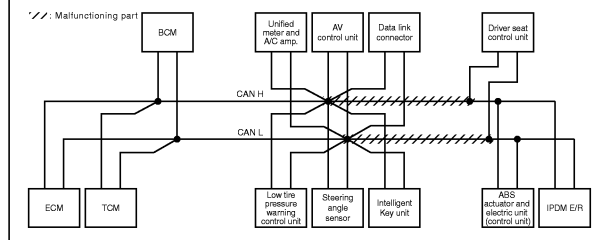
SELECT SYSTEM screen	Initial diagnosis	Transfer diagnosis	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
			Receive diagnosis																	
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER	MULTI	DDOTES	IPDM	MMA	AV	AVS	ESP				
ENGINE	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
A/T	--	NG	UNKWN	UNKWN	--	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
BCM	No indicator	--	UNKWN	UNKWN	--	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
AIR PRESSURE MONITOR	No indicator	--	UNKWN	UNKWN	--	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
INTELLIGENT KEY	No indicator	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
METER AC AMP	No indicator	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
MULTI AV	No indicator	--	UNKWN	UNKWN	--	UNKWN	UNKWN	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
AUTO DRIVE POS.	No indicator	NG	--	--	UNKWN	UNKWN	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
ABS	--	NG	UNKWN	UNKWN	UNKWN	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indicator	--	UNKWN	UNKWN	--	UNKWN	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)



**Case 2**

Check harness between data link connector and driver seat control unit.

SELECT SYSTEM screen	Initial diagnosis	Transfer diagnosis	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
			Receive diagnosis																	
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER	MULTI	DDOTES	IPDM	MMA	AV	AVS	ESP				
ENGINE	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
A/T	--	NG	UNKWN	UNKWN	--	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
BCM	No indicator	--	UNKWN	UNKWN	--	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
AIR PRESSURE MONITOR	No indicator	--	UNKWN	UNKWN	--	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
INTELLIGENT KEY	No indicator	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
METER AC AMP	No indicator	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
MULTI AV	No indicator	--	UNKWN	UNKWN	--	UNKWN	UNKWN	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
AUTO DRIVE POS.	No indicator	NG	--	--	UNKWN	UNKWN	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
ABS	--	NG	UNKWN	UNKWN	UNKWN	--	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indicator	--	UNKWN	UNKWN	--	UNKWN	--	--	--	--	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)



PKIC0269E

**NOTE:**

There is a case that some of "CAN DIAG SUPPORT MNTR" and "SELF-DIAG RESULTS" are not needed for diagnosis. In the case, "UNKWN" and "CAN COMM CIRCUIT(U1000)" in "Check sheet results (example)" change to "--". Then, ignore check marks on the Check sheet table.

2. For the selected possible causes, it is expected that malfunctions have been found in the past.

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## CAN Diagnostic Support Monitor

NKS003XU

### DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ECM

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR																																																																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="3">ENGINE</th></tr> <tr><td></td><th>PRSNT</th><th>PAST</th></tr> <tr><td>TRANSMIT DIAG</td><td>OK</td><td>OK</td></tr> <tr><td>VDC/TCS/ABS</td><td>OK</td><td>OK</td></tr> <tr><td>METER/M&amp;A</td><td>OK</td><td>OK</td></tr> <tr><td>BCM/SEC</td><td>OK</td><td>OK</td></tr> <tr><td>ICC</td><td>OK</td><td>OK</td></tr> <tr><td>HVAC</td><td>OK</td><td>OK</td></tr> <tr><td>TCM</td><td>OK</td><td>OK</td></tr> <tr><td>EPS</td><td>-</td><td>-</td></tr> <tr><td>IPDM E/R</td><td>OK</td><td>OK</td></tr> <tr><td>PRINT</td><td></td><td>Scroll Down</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT COPY</td></tr> </table>	ENGINE				PRSNT	PAST	TRANSMIT DIAG	OK	OK	VDC/TCS/ABS	OK	OK	METER/M&A	OK	OK	BCM/SEC	OK	OK	ICC	OK	OK	HVAC	OK	OK	TCM	OK	OK	EPS	-	-	IPDM E/R	OK	OK	PRINT		Scroll Down	MODE	BACK	LIGHT COPY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="3">ENGINE</th></tr> <tr><td></td><th>PRSNT</th><th>PAST</th></tr> <tr><td>METER/M&amp;A</td><td>OK</td><td>OK</td></tr> <tr><td>BCM/SEC</td><td>OK</td><td>OK</td></tr> <tr><td>ICC</td><td>OK</td><td>OK</td></tr> <tr><td>HVAC</td><td>OK</td><td>OK</td></tr> <tr><td>TCM</td><td>OK</td><td>OK</td></tr> <tr><td>EPS</td><td>-</td><td>-</td></tr> <tr><td>IPDM E/R</td><td>OK</td><td>OK</td></tr> <tr><td>e4WD</td><td>-</td><td>-</td></tr> <tr><td>AWD/4WD</td><td>OK</td><td>OK</td></tr> <tr><td>PRINT</td><td></td><td>Scroll Up</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT COPY</td></tr> </table>	ENGINE				PRSNT	PAST	METER/M&A	OK	OK	BCM/SEC	OK	OK	ICC	OK	OK	HVAC	OK	OK	TCM	OK	OK	EPS	-	-	IPDM E/R	OK	OK	e4WD	-	-	AWD/4WD	OK	OK	PRINT		Scroll Up	MODE	BACK
ENGINE																																																																															
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MODE	BACK	LIGHT COPY																																																																													
		PKIB9792E																																																																													

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past
ENGINE	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	ICC	Make sure of normal reception from ICC sensor integrated unit.	OK/UNKWN/-	
	HVAC	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-	
	EPS	EPS is not diagnosed.	-	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-	
	e4WD	e4WD is not diagnosed.	-	
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN/-	

#### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

#### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed



# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TCM

(Example)

CAN DIAG SUPPORT MNTR			
A/T			
		PRSENT	
INITIAL DIAG	OK		
TRANSMIT DIAG	OK		
ECM	OK		
VDC/TCS/ABS	OK		
METER/M&A	OK		
ICC/e4WD	OK		
AWD/4WD	OK		
PRINT			
MODE	BACK	LIGHT	COPY

PKIB9793E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
A/T	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
	ICC/e4WD	Make sure of normal reception from ICC sensor integrated unit.	OK/UNKWN
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN

### Display Results (Present)

- OK: Normal
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR AWD CONTROL UNIT

(Example)

CAN DIAG SUPPORT MNTR			
ALL MODE AWD/4WD			
		PRSENT	
INITIAL DIAG	OK		
TRANSMIT DIAG	OK		
VDC/TCS/ABS	OK		
ECM	OK		
TCM	UNKWN		
METER/M&A	OK		
PRINT			
MODE	BACK	LIGHT	COPY

PKIA8948E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
ALL MODE AWD/4WD	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	TCM	TCM is not diagnosed.	UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN

### Display Results (Present)

- OK: Normal
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

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LAN

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR AFS CONTROL UNIT

(Example)

CAN DIAG SUPPORT MNTR			
ADAPTIVE LIGHT			
	PRSNT	PAST	
TRANSMIT DIAG	OK	OK	
ECM	OK	OK	
METER/M&A	OK	OK	
TCM	OK	OK	
STRG	OK	OK	
IPDM E/R	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

PKIB9800E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
ADAPTIVE LIGHT	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-	
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN/-	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed

# TROUBLE DIAGNOSES WORK FLOW

**[CAN]**

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR BCM

(Example)

CAN DIAG SUPPORT MNTR			
BCM			
	PRSENT	PAST	
TRANSMIT DIAG	OK	OK	OK
ECM	OK	OK	OK
METER/M&A	OK	OK	OK
TCM	-	-	-
MULTI AV	OK	OK	OK
IPDM E/R	OK	OK	OK
I-KEY	OK	OK	OK
PRINT			
MODE	BACK	LIGHT	COPY

PKIB9795E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
BCM	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	
	TCM	TCM is not diagnosed.	-	
	MULTI AV	Make sure of normal reception from AV(NAVI) control unit.	OK/UNKWN/-	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-	
	I-KEY	Make sure of normal reception from Intelligent Key unit.	OK/UNKWN/-	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed

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LAN

# TROUBLE DIAGNOSES WORK FLOW

**[CAN]**

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR LDW CAMERA UNIT

(Example)

CAN DIAG SUPPORT MNTR			
LDW			
		PRSNT	PAST
TRANSMIT DIAG	-	-	
ECM	OK	OK	
VDC/TCS/ABS	OK	OK	
BCM/SEC	OK	OK	
TCM	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

PKIB5965E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
LDW	TRANSMIT DIAG	TRANSMIT DIAG is not diagnosed.	-	OK/0/1~39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed

# TROUBLE DIAGNOSES WORK FLOW

**[CAN]**

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR LOW TIRE PRESSURE WARNING CONTROL UNIT

(Example)

CAN DIAG SUPPORT MNTR			
AIR PRESSURE MONITOR			
	PRSNT	PAST	
TRANSMIT DIAG	OK	OK	
ECM	OK	OK	
VDC/TCS/ABS	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

PKIB9797E

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“SELECT SYSTEM” screen	“CAN DIAG SUP-PORT MNTR” screen	Description	Present	Past
AIR PRESSURE MONITOR	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed

LAN

# TROUBLE DIAGNOSES WORK FLOW

**[CAN]**

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR INTELLIGENT KEY UNIT

(Example)

CAN DIAG SUPPORT MNTR			
INTELLIGENT KEY			
	PRSENT	PAST	
TRANSMIT DIAG	OK	OK	OK
ECM	OK	OK	OK
ABS	OK	OK	OK
METER/M&A	OK	OK	OK
BCM/SEC	OK	OK	OK
TCM	OK	OK	OK
IPDM E/R	OK	OK	OK
PRINT			
MODE	BACK	LIGHT	COPY

PKIB9796E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
INTELLIGENT KEY	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1-39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR UNIFIED METER AND A/C AMP.

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR																																																																								
	METER A/C AMP	METER A/C AMP																																																																								
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		PKIB9798E																																																																								

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
METER A/C AMP	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1-39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	IPDM E/R	IPDM E/R is not diagnosed.	-	
	MULTI AV	Make sure of normal reception from AV(NAVI) control unit.	OK/UNKWN/-	
	I-KEY	Make sure of normal reception from Intelligent Key unit.	OK/UNKWN/-	
	EPS	EPS is not diagnosed.	-	
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN/-	
	e4WD	e4WD is not diagnosed.	-	
	ICC	Make sure of normal reception from ICC sensor integrated unit.	OK/UNKWN/-	
	LANE KEEP	LANE KEEP is not diagnosed.	-	
	TIRE-P	Make sure of normal reception from low tire pressure warning control unit.	OK/UNKWN/-	
	AFS	Make sure of normal reception from AFS control unit.	OK/UNKWN/-	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR AV(NAVI) CONTROL UNIT

(Example)

CAN DIAG SUPPORT MNTR			
MULTI AV			
	PRSNT	PAST	
TRANSMIT DIAG	OK	OK	
ECM	OK	OK	
METER/M&A	OK	OK	
BCM/SEC	OK	OK	
HVAC	OK	OK	
IPDM E/R	OK	OK	
TIRE-P	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

PKIB9802E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
MULTI AV	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	HVAC	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-	
	TIRE-P	Make sure of normal reception from low tire pressure warning control unit.	OK/UNKWN/-	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed





# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR PRE-CRASH SEAT BELT CONTROL UNIT

(Example)

CAN DIAG SUPPORT MNTR			
PRECRASH SEATBELT			
	PRSNT	PAST	
TRANSMIT DIAG	OK	OK	
ECM	OK	OK	
METER/M&A	OK	OK	
ICC	-	-	
TCM	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

PKIB9799E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
PRECRASH SEATBELT	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	
	ICC	ICC is not diagnosed.	-	
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DRIVER SEAT CONTROL UNIT

(Example)

CAN DIAG SUPPORT MNTR			
AUTO DRIVE POS.			
		PRSNT	
INITIAL DIAG		OK	
TRANSMIT DIAG		OK	
BCM/SEC		OK	
METER/M&A		OK	
TCM		OK	
PRINT			
MODE	BACK	LIGHT	COPY

SKIB2360E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
AUTO DRIVE POS.	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	TRANSMIT DIAG is not diagnosed.	OK
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
	TCM	Make sure of normal reception from TCM.	OK/UNKWN

### Display Results (Present)

- OK: Normal
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

## DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

(Example)

CAN DIAG SUPPORT MNTR			
ABS			
		PRSNT	
INITIAL DIAG		OK	
TRANSMIT DIAG		OK	
ECM		OK	
TCM		OK	
METER/M&A		UNKWN	
STRG		OK	
ICC		OK	
AWD/4WD		OK	
RAS		OK	
PRINT			
MODE	BACK	LIGHT	COPY

PKIB9794E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
ABS	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	TCM	Make sure of normal reception from TCM.	OK/UNKWN
	METER/M&A	METER/M&A is not diagnosed.	UNKWN
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN
	ICC	Make sure of normal reception from ICC sensor integrated unit.	OK/UNKWN
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN
	RAS	Make sure of normal reception from RAS control unit.	OK/UNKWN

### Display Results (Present)

- OK: Normal
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR ICC SENSOR INTEGRATED UNIT

(Example)

CAN DIAG SUPPORT MNTR			
ICC			
	PRSENT	PAST	
TRANSMIT DIAG	OK	OK	
ECM	OK	OK	
VDC/TCS/ABS	OK	OK	
METER/M&A	OK	OK	
BCM/SEC	OK	OK	
TCM	OK	OK	
STRG	-	-	
PRINT			
MODE	BACK	LIGHT	COPY

PKIB9801E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
ICC	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-	
	STRG	STRG is not diagnosed.	-	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- -: Undiagnosed

# TROUBLE DIAGNOSES WORK FLOW

**[CAN]**

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR IPDM E/R

(Example)

CAN DIAG SUPPORT MNTR			
IPDM E/R			
	PRSNT	PAST	
TRANSMIT DIAG	OK	OK	
ECM	OK	OK	
BCM/SEC	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

SKIB0595E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
IPDM E/R	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/–	OK/0/1~39/–
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/–	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/–	

### Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- –: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

### Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- –: Undiagnosed

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LAN

## CAN COMMUNICATION

PFP:23710

### System Description

NKS003XV

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

### CAN Communication Unit

NKS003XW

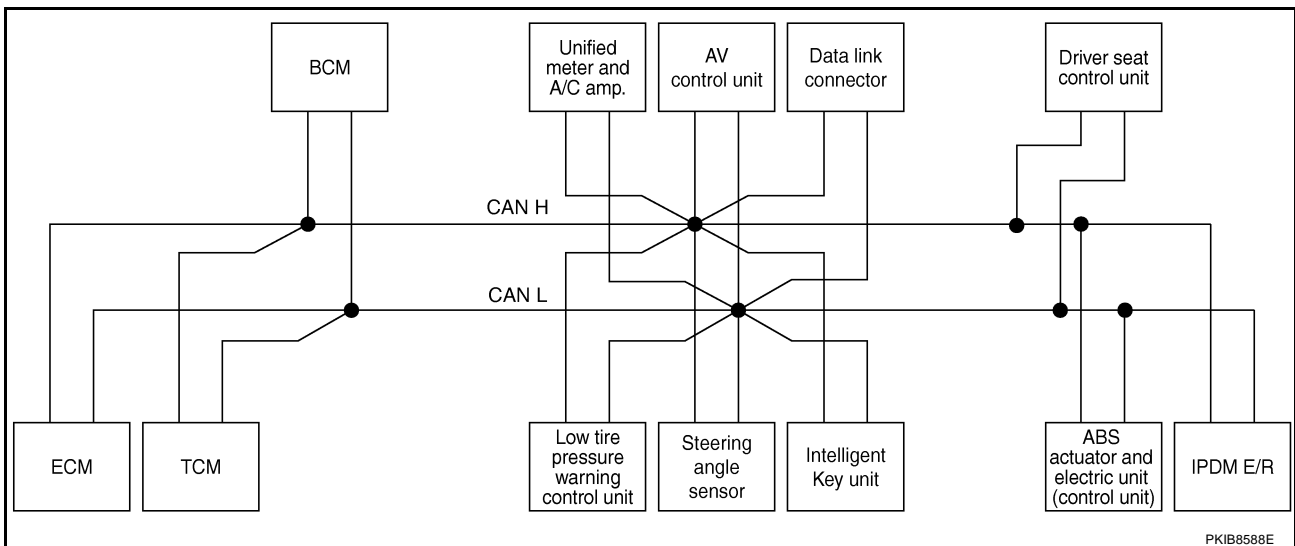
Go to CAN system, when selecting your CAN system type from the following table.

Body type	Sedan														
Axle	2WD										AWD				
Engine	VQ35DE/VK45DE										VQ35DE				
Transmission	A/T														
Brake control	VDC														
Navigation system		×		×	×		×		×	×		×		×	×
Pre-crash seat belt			×	×	×			×	×	×			×	×	×
Adaptive front-lighting system			×	×	×	×	×	×	×	×			×	×	×
ICC system					×					×					×
Lane departure warning					×					×					×
Rear active steer						×	×	×	×	×					
CAN system type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CAN system trouble diagnosis	<a href="#">LA N-48</a>	<a href="#">LA N-89</a>	<a href="#">LA N-130</a>	<a href="#">LA N-177</a>	<a href="#">LA N-224</a>	<a href="#">LA N-275</a>	<a href="#">LA N-321</a>	<a href="#">LA N-367</a>	<a href="#">LA N-417</a>	<a href="#">LA N-467</a>	<a href="#">LA N-521</a>	<a href="#">LA N-564</a>	<a href="#">LA N-607</a>	<a href="#">LA N-656</a>	<a href="#">LA N-705</a>

×: Applicable

### SYSTEM DIAGRAM

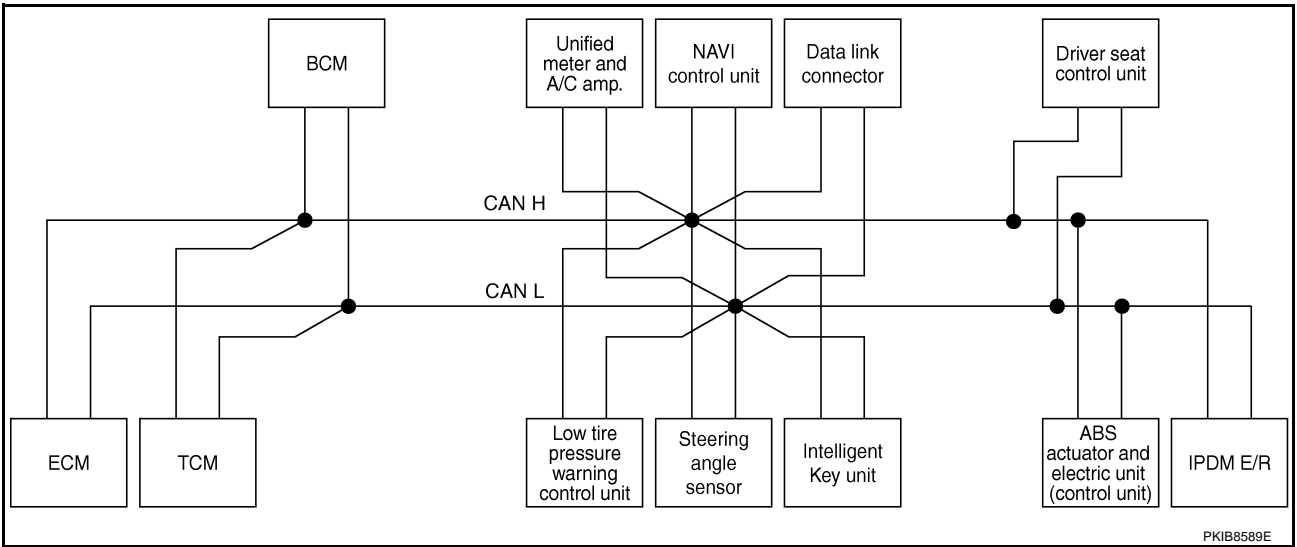
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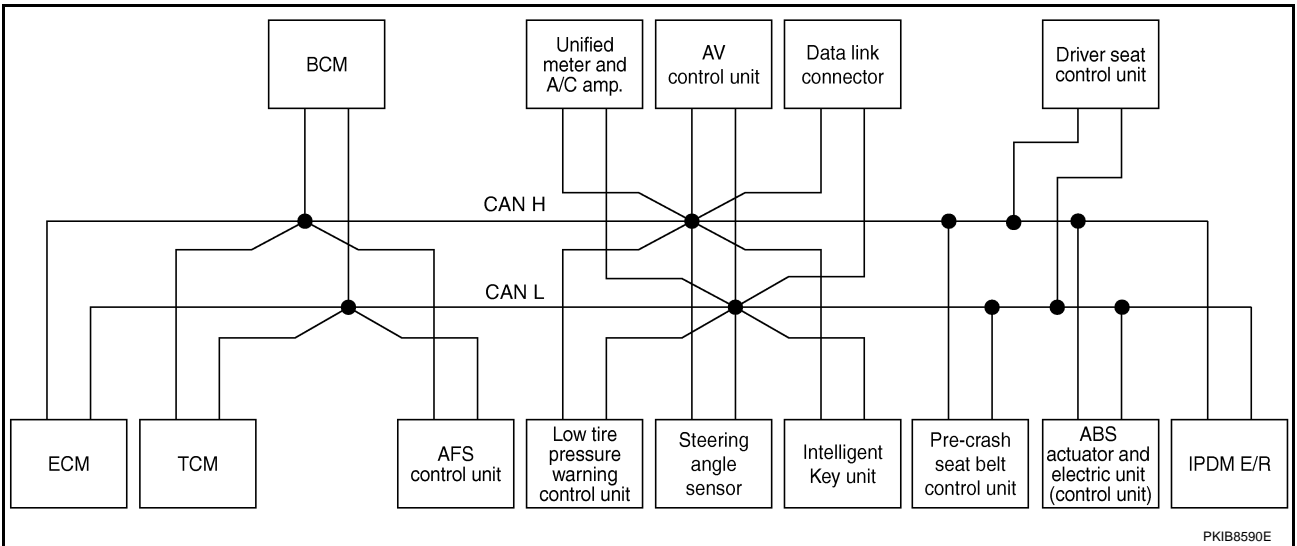
# CAN COMMUNICATION

[CAN]

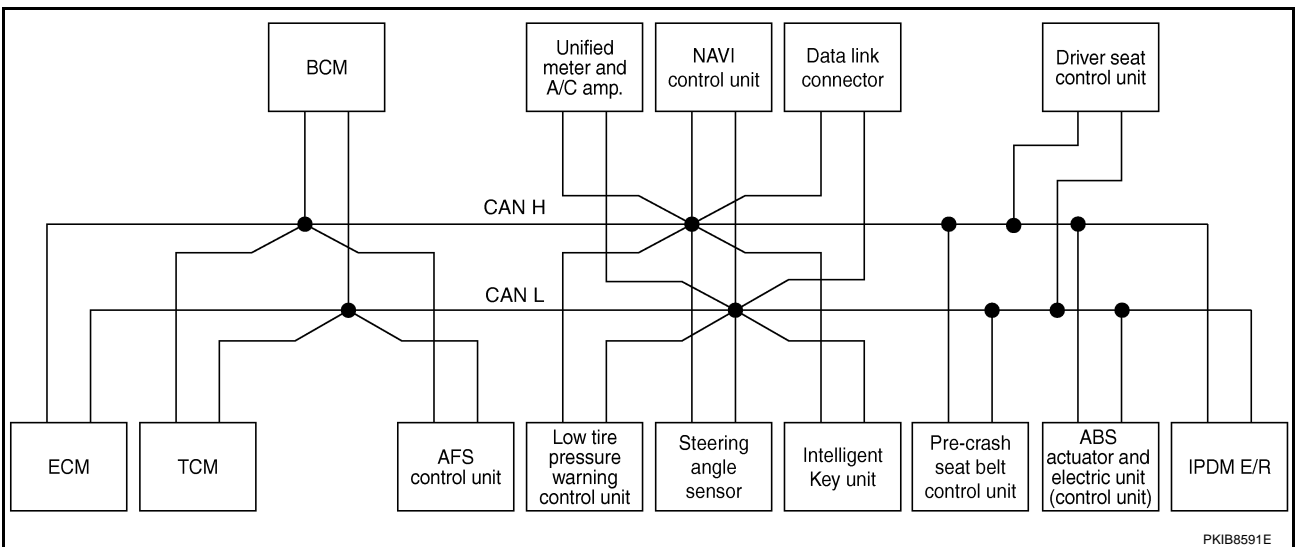
● Type 2



● Type 3



● Type 4



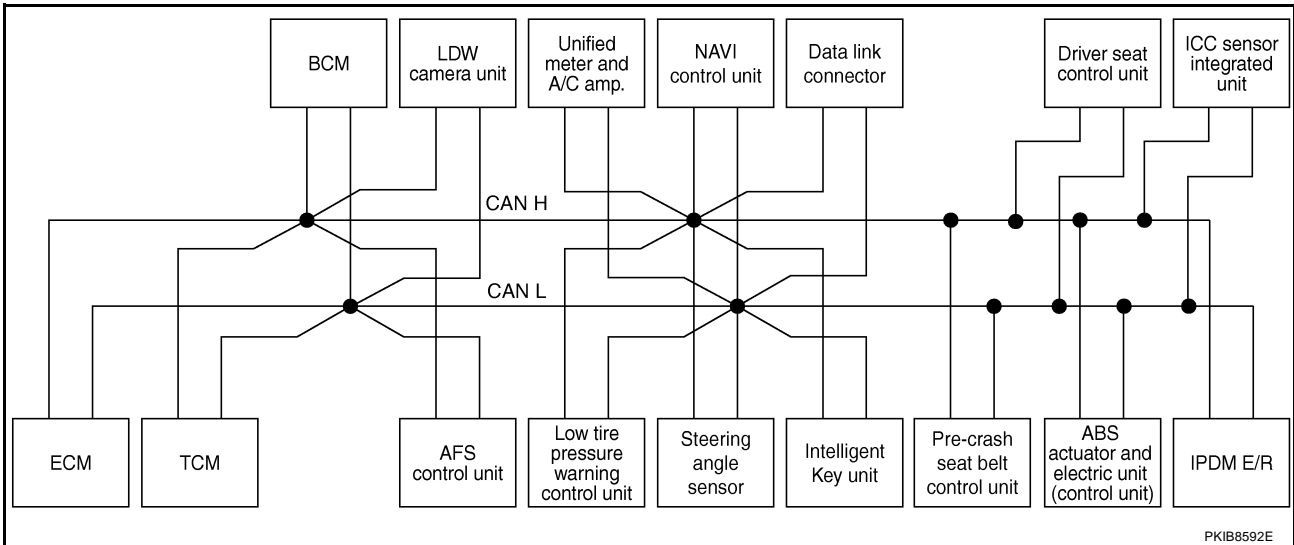
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LAN

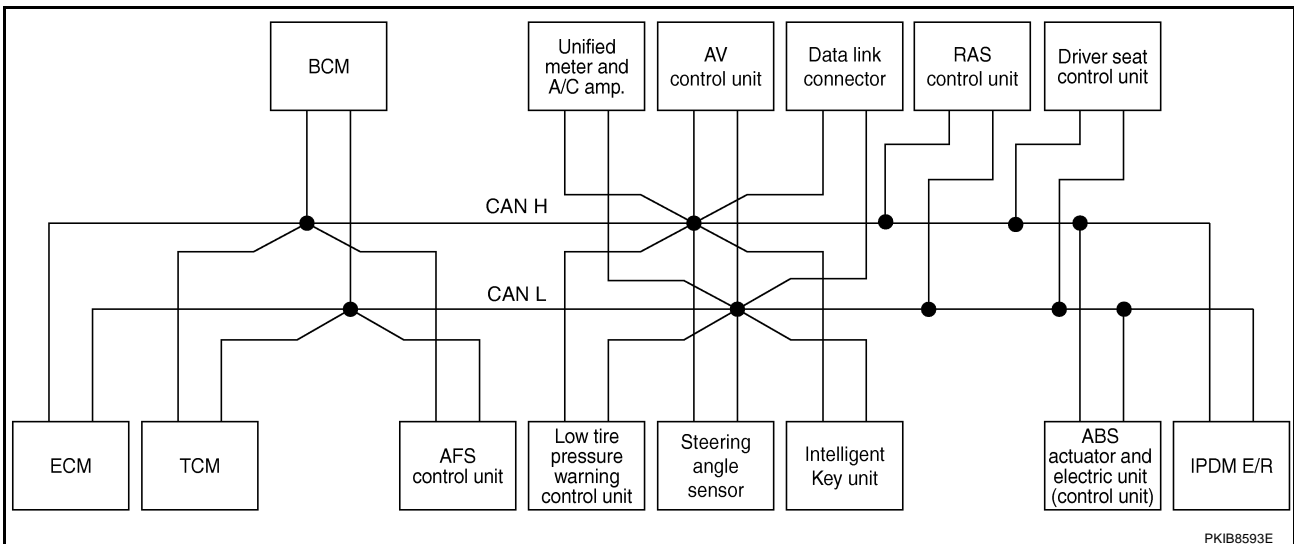
# CAN COMMUNICATION

[CAN]

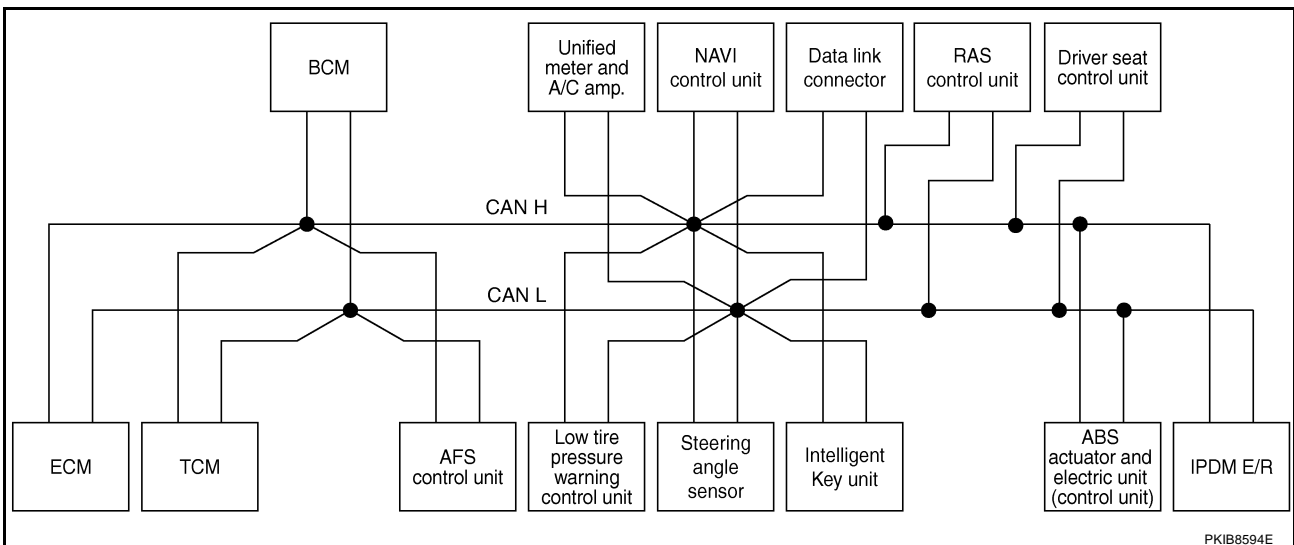
- Type 5



- Type 6



- Type 7

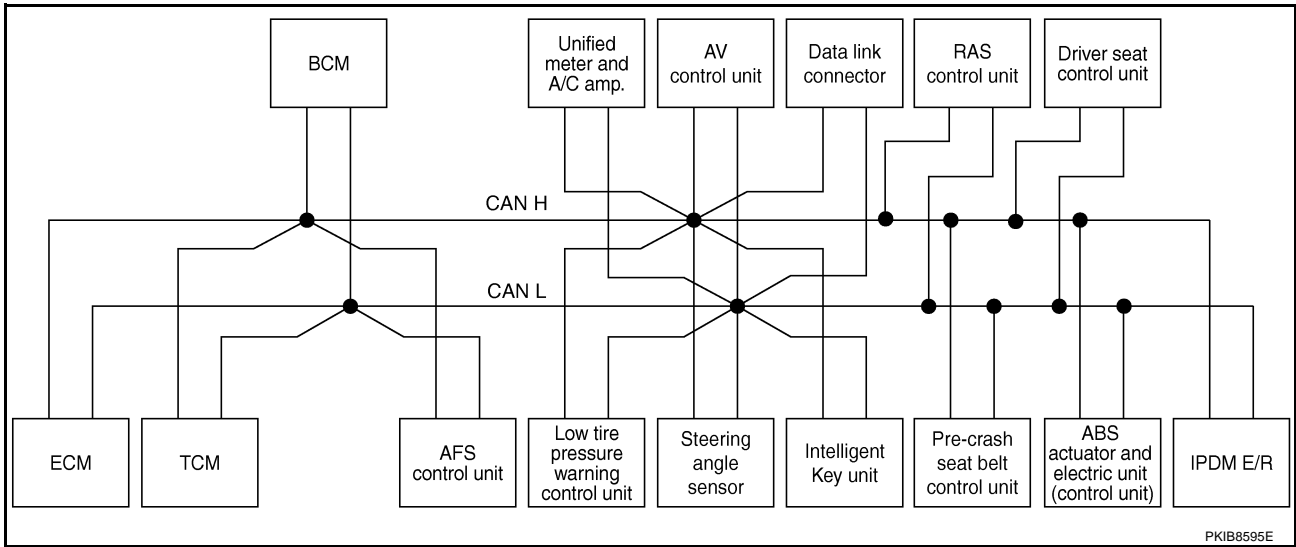




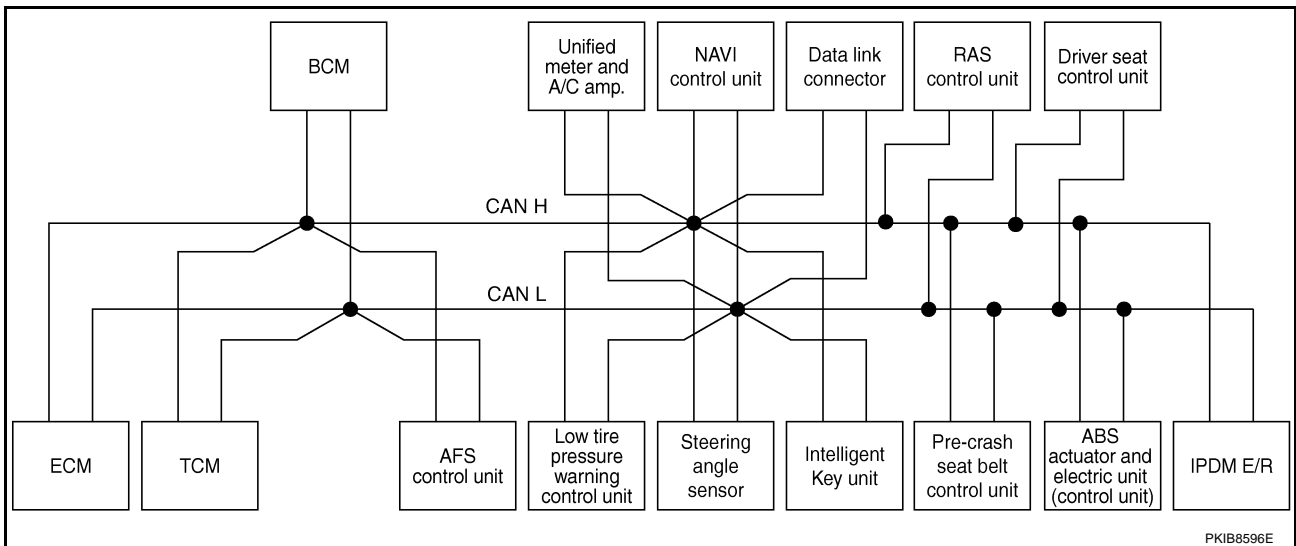
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[CAN]

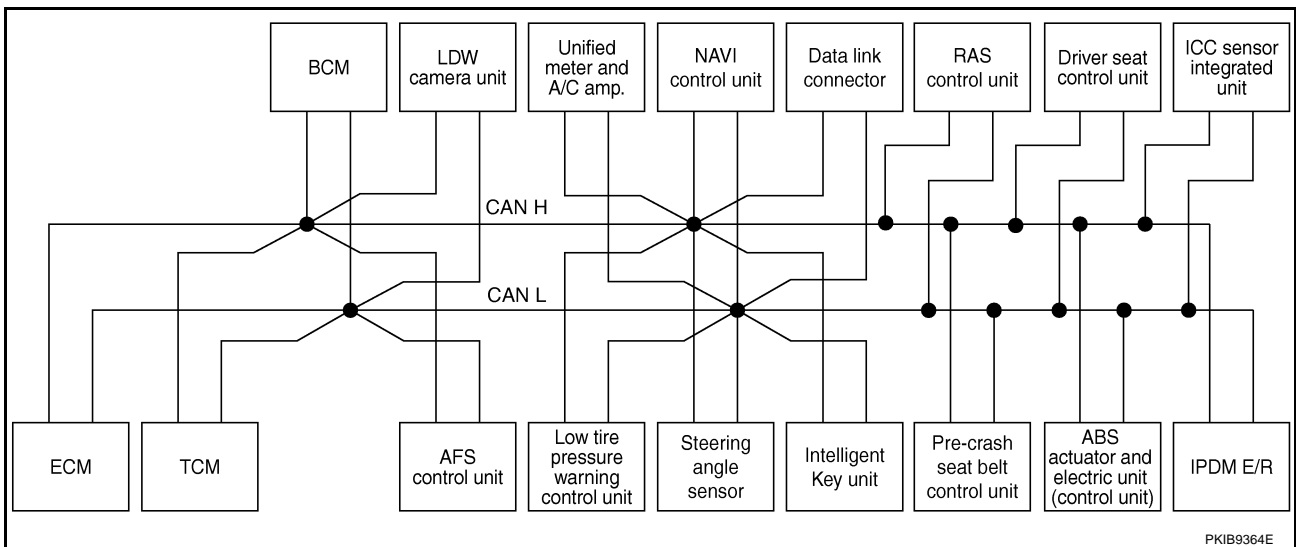
- Type 8



- Type 9



- Type 10



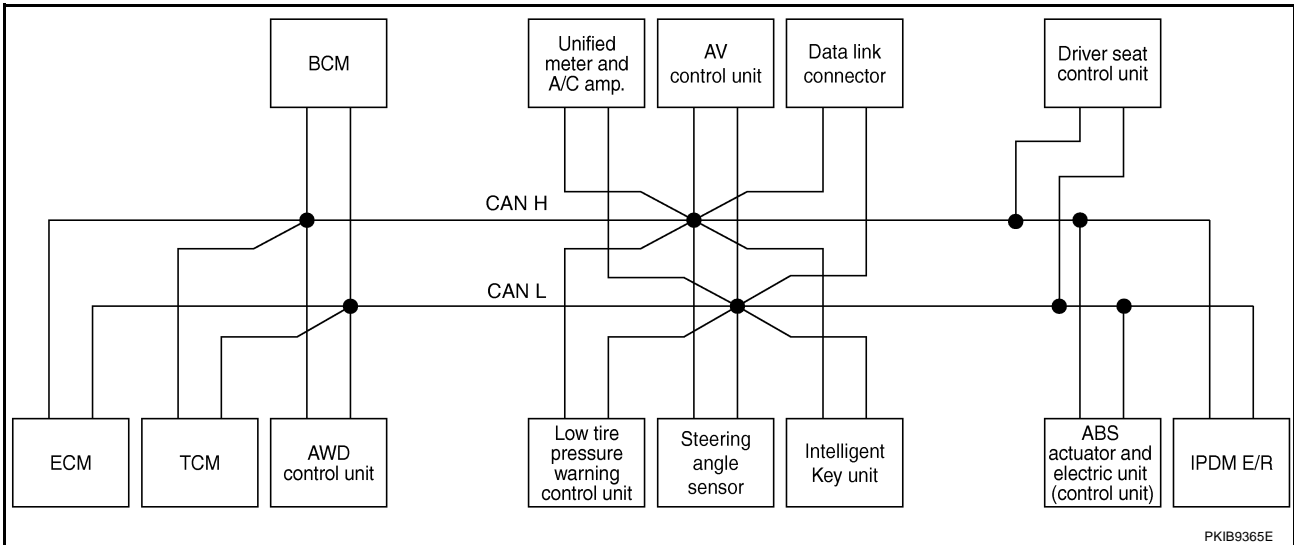
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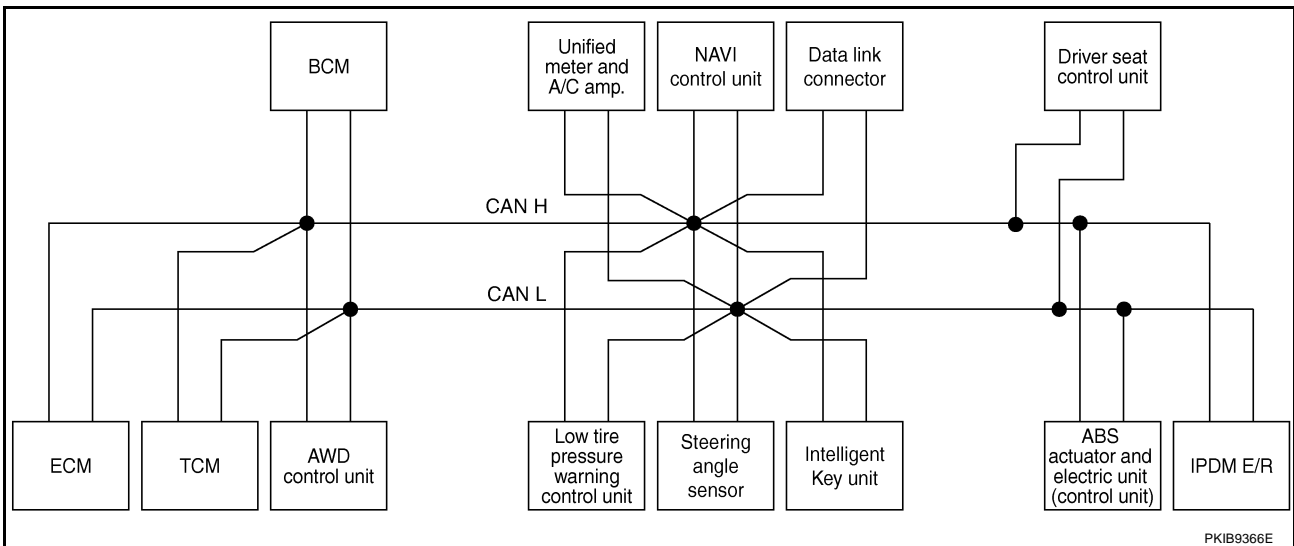
# CAN COMMUNICATION

[CAN]

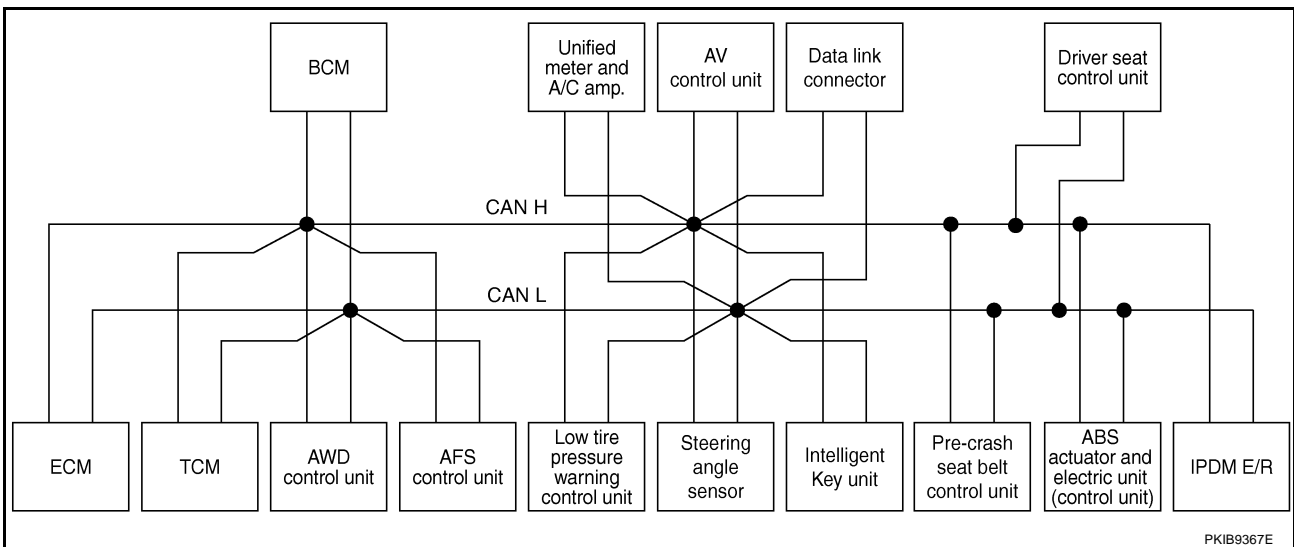
- Type 11



- Type 12



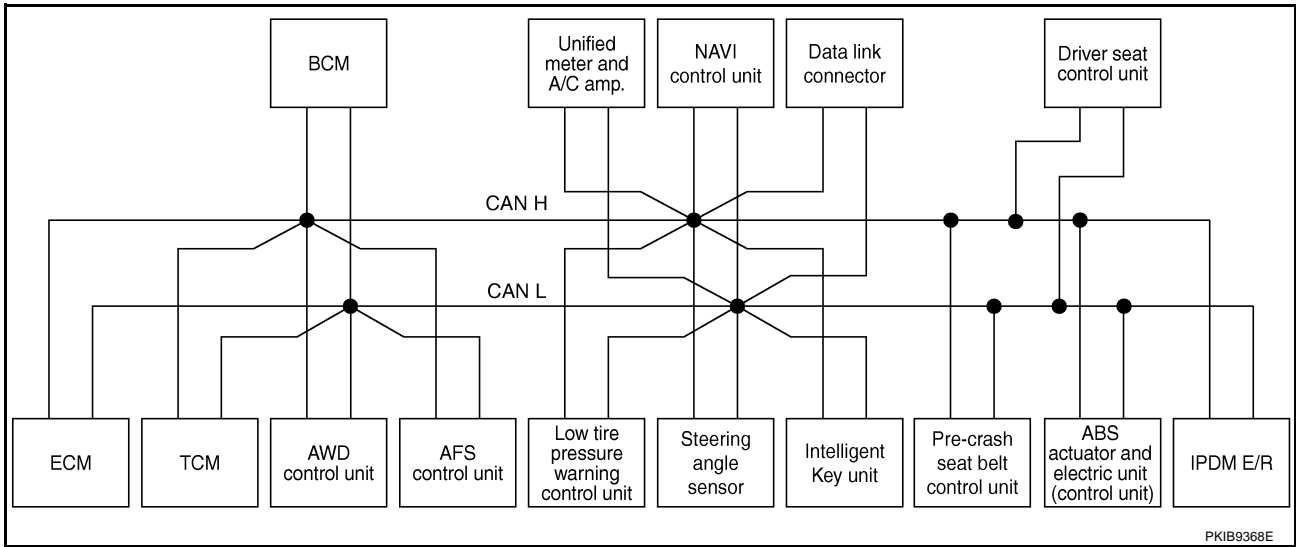
- Type 13



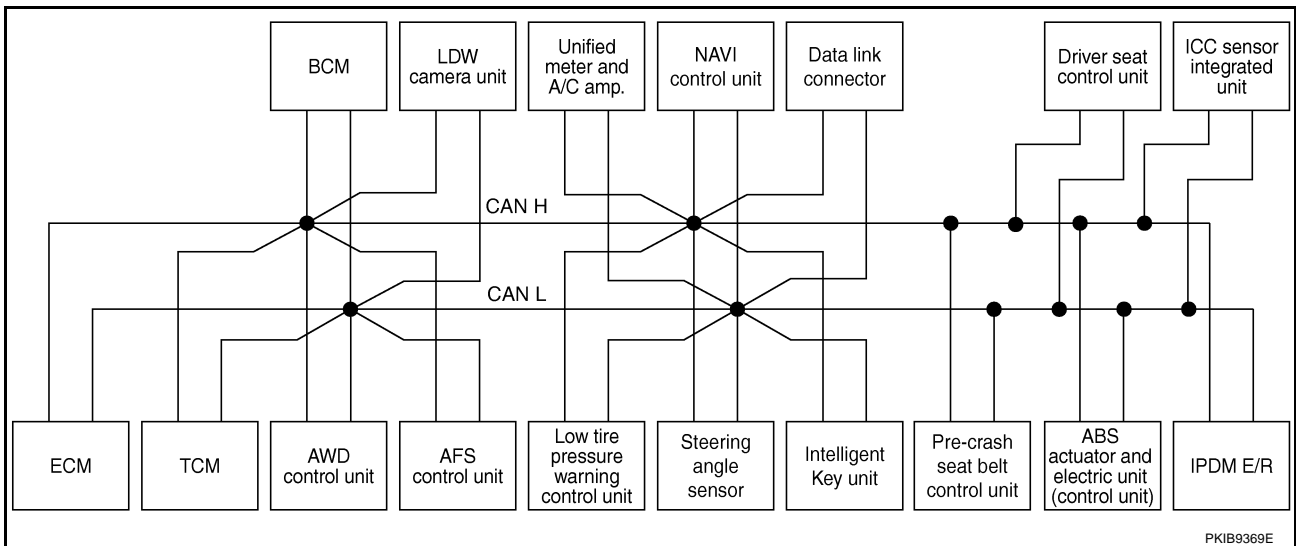
# CAN COMMUNICATION

[CAN]

● Type 14



● Type 15



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# CAN COMMUNICATION

[CAN]

## INPUT/OUTPUT SIGNAL CHART

### 2WD models

T: Transmit R: Receive

Signals	ECM	TCM	AFS control unit*1	BCM	LDW camera unit*2	Low tire pressure warning control unit	Steering angle sensor	Intelligent Key unit	Unified meter and A/C amp.	AV (NAVI) control unit	RAS control unit*3	Pre-crash seat belt control unit*4	Driver seat control unit	ABS actuator and electric unit (control unit)	ICC sensor integrated unit*5	IPDM E/R
A/C compressor request signal	T															R
Accelerator pedal position signal	T	R												R	R	
ASCD CRUISE lamp signal	T								R							
ASCD OD cancel request signal	T	R														
ASCD operation signal	T	R														
ASCD SET lamp signal	T								R							
Battery voltage signal	T	R														
Closed throttle position signal	T	R													R	
Cooling fan speed request signal	T															R
Engine coolant temperature signal	T								R							
Engine speed signal	T	R	R						R		R			R	R	
Engine status signal	T			R				R		R						
Fuel consumption monitor signal	T								R	R						
ICC brake switch signal	T														R	
ICC prohibition signal	T														R	
ICC steering switch signal	T														R	
Malfunctioning indicator lamp signal	T								R							
Power generation command value signal	T															R
Wide open throttle position signal	T	R														
A/T CHECK indicator lamp signal		T							R							
A/T position indicator signal		T	R						R					R	R	
A/T self-diagnosis signal	R	T														
Current gear position signal		T												R	R	
Manual mode indicator signal		T							R						R	
N range signal		T						R							R	
Output shaft revolution signal	R	T			R										R	
P range signal		T						R					R	R	R	
R range signal		T										R	R		R	
Turbine revolution signal	R	T													R	
AFS OFF indicator signal			T						R							
A/C switch signal	R			T												
ACC signal				T				R					R			

# CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	AFS control unit*1	BCM	LDW camera unit*2	Low tire pressure warning control unit	Steering angle sensor	Intelligent Key unit	Unified meter and A/C amp.	AV (NAVI) control unit	RAS control unit*3	Pre-crash seat belt control unit*4	Driver seat control unit	ABS actuator and electric unit (control unit)	ICC sensor integrated unit*5	IPDM E/R
Blower fan motor switch signal	R			T												
Buzzer output signal				T				T	R							
									R						T	
Day time running light request signal				T												R
Door lock/unlock status signal				T				R								
Door switch signal				T				R	R	R			R			R
Door unlock signal				T									R			
Front fog light request signal				T					R							R
Front wiper request signal				T										R		R
High beam request signal				T					R							R
Ignition switch ON signal				T				R					R			
Ignition switch signal				T									R			R
Key ID signal				T									R			
Key switch signal				T									R			
Low beam request signal				T												R
Position light request signal				T					R							R
Rear window defogger switch signal				T												R
Sleep wake up signal				T				R	R				R			R
Starter request signal				T												R
Theft warning horn request signal				T												R
Trunk switch signal				T				R		R						
Turn indicator signal				T	R				R							
Tire pressure data signal						T				R						
Tire pressure signal						T			R	R						
Steering angle sensor signal			R				T				R			R		
Door lock/unlock trunk open request signal				R				T								
Hazard and horn request signal				R				T								
Key warning signal								T	R							
Meter display signal								T	R							
									R						T	
Panic alarm request signal				R				T								
Power window open request signal				R				T								
A/C evaporator temperature signal	R								T							

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# CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	AFS control unit*1	BCM	LDW camera unit*2	Low tire pressure warning control unit	Steering angle sensor	Intelligent Key unit	Unified meter and A/C amp.	AV (NAVI) control unit	RAS control unit*3	Pre-crash seat belt control unit*4	Driver seat control unit	ABS actuator and electric unit (control unit)	ICC sensor integrated unit*5	IPDM E/R
Distance to empty signal									T	R						
Fuel level low warning signal									T	R						
Fuel level sensor signal	R								T							
Manual mode shift down signal		R							T							
Manual mode shift up signal		R							T							
Manual mode signal		R							T							
Not manual mode signal		R							T							
Parking brake switch signal				R					T							
Seat belt buckle switch signal				R					T							
Stop lamp switch signal		R							T							
	T														R	
Target A/C evaporator temperature signal	R								T					T	R	
A/C switch/indicator signal									R	T						
									T	R						
System setting signal								R		T			R			
								T		R			T			
RAS signal											T			R		
A/T shift schedule change demand signal		R												T		
ABS malfunction signal														T	R	
ABS operation signal														T	R	
ABS warning lamp signal									R					T		
Brake pressure control signal														T	R	
Brake warning lamp signal									R					T		
Side G sensor signal		R												T		
SLIP indicator lamp signal									R					T		
TCS malfunction signal														T	R	
TCS operation signal														T	R	
VDC malfunction signal														T	R	
VDC OFF indicator lamp signal									R					T		
VDC OFF switch signal														T	R	
VDC operation signal														T	R	
Vehicle speed signal					R	R		R	R		R			T	R	
	R	R	R	R				R	T	R		R	R		R	

# CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	AFS control unit*1	BCM	LDW camera unit*2	Low tire pressure warning control unit	Steering angle sensor	Intelligent Key unit	Unified meter and A/C amp.	AV (NAVI) control unit	RAS control unit*3	Pre-crash seat belt control unit*4	Driver seat control unit	ABS actuator and electric unit (control unit)	ICC sensor integrated unit*5	IPDM E/R
Deceleration degree commandment value signal														R	T	
ICC OD cancel request signal		R													T	
ICC operation signal	R														T	
ICC warning lamp signal									R						T	
Front wiper stop position signal				R												T
High beam status signal	R															T
Hood switch signal				R												T
Low beam status signal	R		R													T
Oil pressure switch signal				R												T
				T					R							
Rear window defogger control signal	R									R						T
Starter relay status signal								R								T

- \*1:with AFS model only
- \*2:with LDW model only
- \*3:with RAS model only
- \*4:with pre-crash seat belt model only
- \*5:with ICC model only

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# CAN COMMUNICATION

[CAN]

## AWD models

T: Transmit R: Receive

Signals	ECM	TCM	AWD control unit	AFS control unit*1	BCM	LDW camera unit*2	Low tire pressure warning control unit	Steering angle sensor	Intelligent Key unit	Unified meter and A/C amp.	AV (NAVI) control unit	Pre-crash seat belt control unit*3	Driver seat control unit	ABS actuator and electric unit (control unit)	ICC sensor integrated unit*4	IPDM E/R
A/C compressor request signal	T															R
Accelerator pedal position signal	T	R	R											R	R	
ASCD CRUISE lamp signal	T									R						
ASCD OD cancel request signal	T	R														
ASCD operation signal	T	R														
ASCD SET lamp signal	T									R						
Battery voltage signal	T	R														
Closed throttle position signal	T	R													R	
Cooling fan speed request signal	T															R
Engine coolant temperature signal	T									R						
Engine speed signal	T	R	R	R						R				R	R	
Engine status signal	T				R				R		R					
Fuel consumption monitor signal	T									R	R					
ICC brake switch signal	T														R	
ICC prohibition signal	T														R	
ICC steering switch signal	T														R	
Malfunctioning indicator lamp signal	T									R						
Power generation command value signal	T															R
Wide open throttle position signal	T	R														
A/T CHECK indicator lamp signal		T								R						
A/T position indicator signal		T		R						R				R	R	
A/T self-diagnosis signal	R	T														
Current gear position signal		T												R	R	
Manual mode indicator signal		T								R						R
N range signal		T							R							R
Output shaft revolution signal	R	T				R										R
P range signal		T							R				R	R	R	
R range signal		T										R	R		R	
Turbine revolution signal	R	T														R
AWD signal			T											R		
AWD warning lamp signal			T							R						
AFS OFF indicator signal				T						R						
A/C switch signal	R				T											



# CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	AWD control unit	AFS control unit*1	BCM	LDW camera unit*2	Low tire pressure warning control unit	Steering angle sensor	Intelligent Key unit	Unified meter and A/C amp.	AV (NAVI) control unit	Pre-crash seat belt control unit*3	Driver seat control unit	ABS actuator and electric unit (control unit)	ICC sensor integrated unit*4	IPDM E/R
ACC signal					T				R				R			
Blower fan motor switch signal	R				T											
Buzzer output signal					T					R						
									T	R					T	
Day time running light request signal					T											R
Door lock/unlock status signal					T				R							
Door switch signal					T				R	R	R		R			R
Door unlock signal					T								R			
Front fog light request signal					T					R						R
Front wiper request signal					T										R	R
High beam request signal					T					R						R
Ignition switch ON signal					T				R				R			
Ignition switch signal					T								R			R
Key ID signal					T								R			
Key switch signal					T								R			
Low beam request signal					T											R
Position light request signal					T					R						R
Rear window defogger switch signal					T											R
Sleep wake up signal					T				R	R			R			R
Starter request signal					T											R
Theft warning horn request signal					T											R
Trunk switch signal					T				R		R					
Turn indicator signal					T	R				R						
Tire pressure data signal							T				R					
Tire pressure signal							T			R	R					
Steering angle sensor signal				R				T						R		
Door lock/unlock trunk open request signal					R				T							
Hazard and horn request signal					R				T							
Key warning signal									T	R						
Meter display signal									T	R						
										R					T	
Panic alarm request signal					R				T							
Power window open request signal					R				T							

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# CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	AWD control unit	AFS control unit*1	BCM	LDW camera unit*2	Low tire pressure warning control unit	Steering angle sensor	Intelligent Key unit	Unified meter and A/C amp.	AV (NAVI) control unit	Pre-crash seat belt control unit*3	Driver seat control unit	ABS actuator and electric unit (control unit)	ICC sensor integrated unit*4	IPDM E/R
A/C evaporator temperature signal	R									T						
Distance to empty signal										T	R					
Fuel level low warning signal										T	R					
Fuel level sensor signal	R									T						
Manual mode shift down signal		R								T						
Manual mode shift up signal		R								T						
Manual mode signal		R								T						
Not manual mode signal		R								T						
Parking brake switch signal			R		R					T						
Seat belt buckle switch signal					R					T						
Snow mode switch signal	R									T						
	T													R	R	
Stop lamp switch signal		R	R							T						
	T														R	
														T	R	
Target A/C evaporator temperature signal	R									T						
A/C switch/indicator signal										R	T					
										T	R					
System setting signal									R		T		R			
									T		R		T			
A/T shift schedule change demand signal		R												T		
ABS malfunction signal														T	R	
ABS operation signal														T	R	
ABS warning lamp signal										R				T		
Brake pressure control signal														T	R	
Brake warning lamp signal										R				T		
Side G sensor signal		R												T		
SLIP indicator lamp signal										R				T		
TCS malfunction signal														T	R	
TCS operation signal														T	R	
VDC malfunction signal														T	R	
VDC OFF indicator lamp signal										R				T		
VDC OFF switch signal														T	R	
VDC operation signal														T	R	

# CAN COMMUNICATION

[CAN]

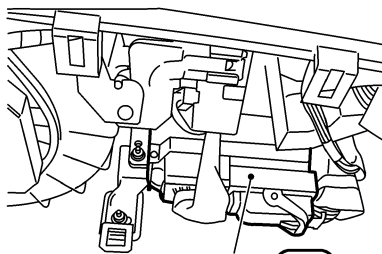
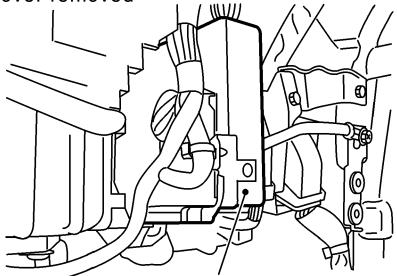
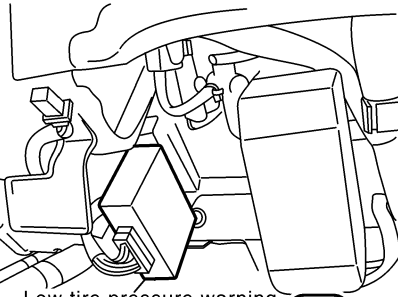
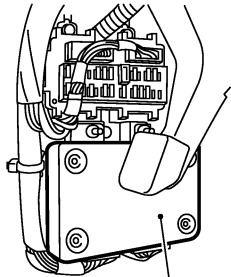
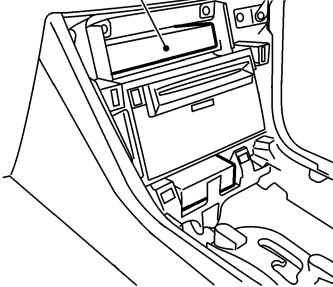
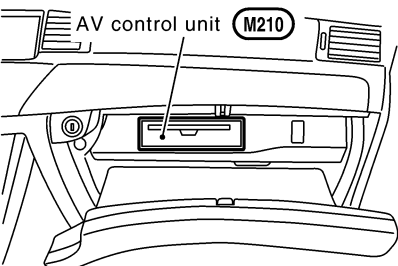
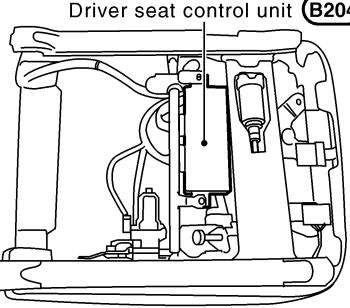
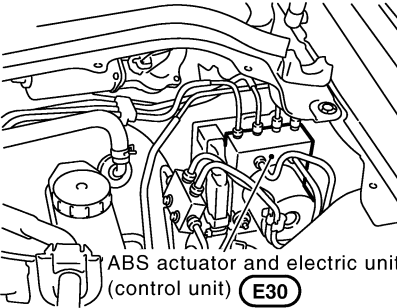
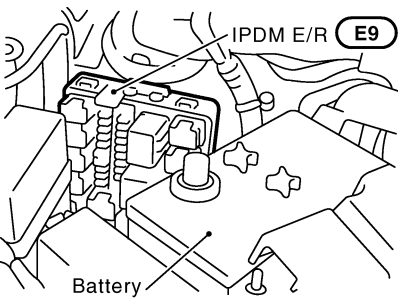
Signals	ECM	TCM	AWD control unit	AFS control unit*1	BCM	LDW camera unit*2	Low tire pressure warning control unit	Steering angle sensor	Intelligent Key unit	Unified meter and A/C amp.	AV (NAVI) control unit	Pre-crash seat belt control unit*3	Driver seat control unit	ABS actuator and electric unit (control unit)	ICC sensor integrated unit*4	IPDM E/R
Vehicle speed signal			R			R	R		R	R				T	R	
	R	R		R	R				R	T	R	R	R		R	
Deceleration degree commandment value signal														R	T	
ICC OD cancel request signal		R													T	
ICC operation signal	R														T	
ICC warning lamp signal										R					T	
Front wiper stop position signal					R											T
High beam status signal	R															T
Hood switch signal					R											T
Low beam status signal	R			R												T
Oil pressure switch signal					R											T
					T					R						
Rear window defogger control signal	R										R					T
Starter relay status signal									R							T

- \*1:with AFS model only
- \*2:with LDW model only
- \*3:with pre-crash seat belt model only
- \*4:with ICC model only

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## CAN SYSTEM (TYPE 1)

### Component Parts and Harness Connector Location

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>	<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>
<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p> <p>Unified meter and A/C amp. (M65)</p> 	<p>Inside of glove box</p>  <p>AV control unit (M210)</p>
<p>Under driver's seat</p> <p>Driver seat control unit (B204)</p> 	<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>

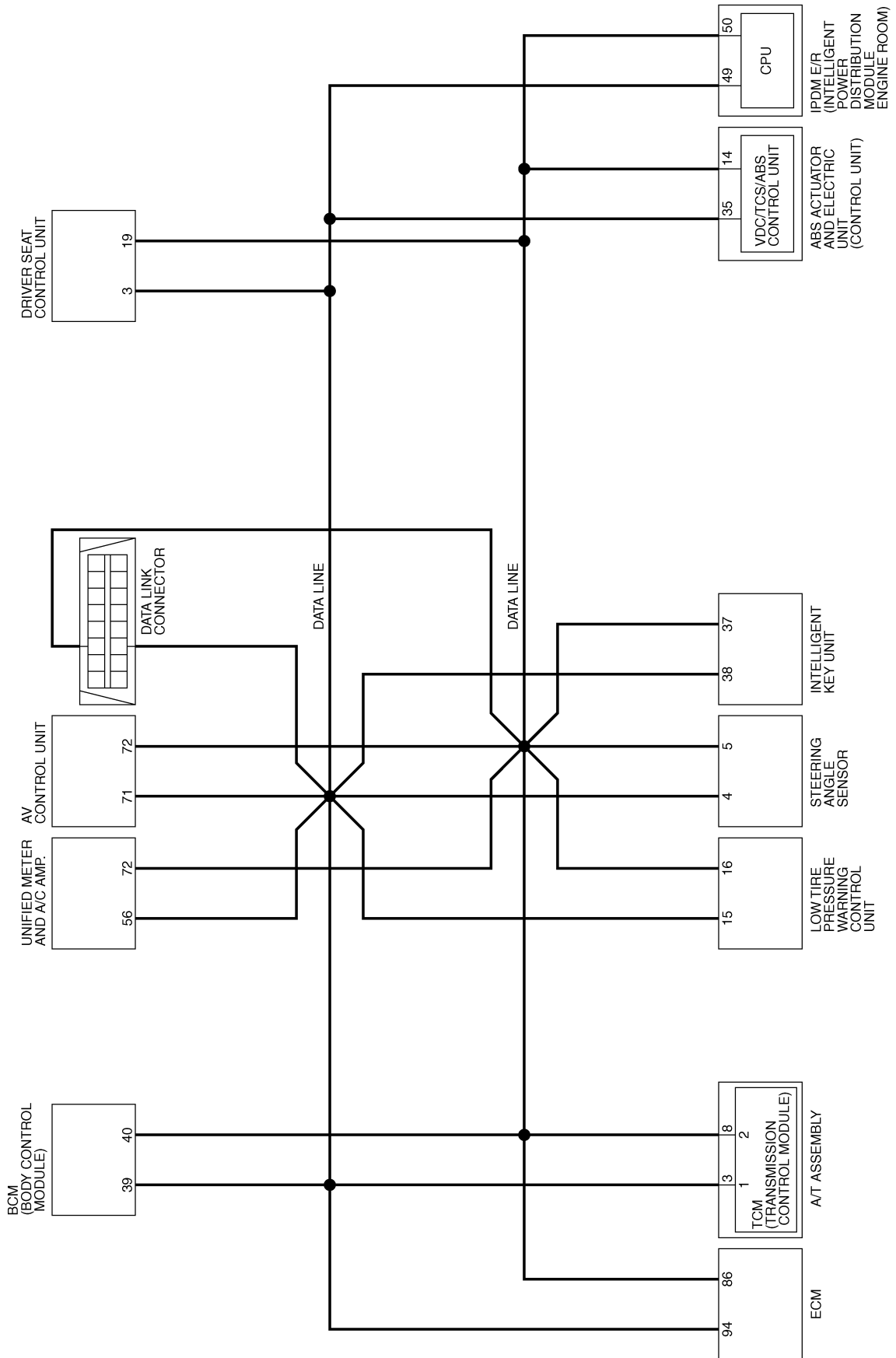
PKIC0599E

# CAN SYSTEM (TYPE 1)

[CAN]

## Schematic

NKS003XY



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TKWT3247E

# CAN SYSTEM (TYPE 1)

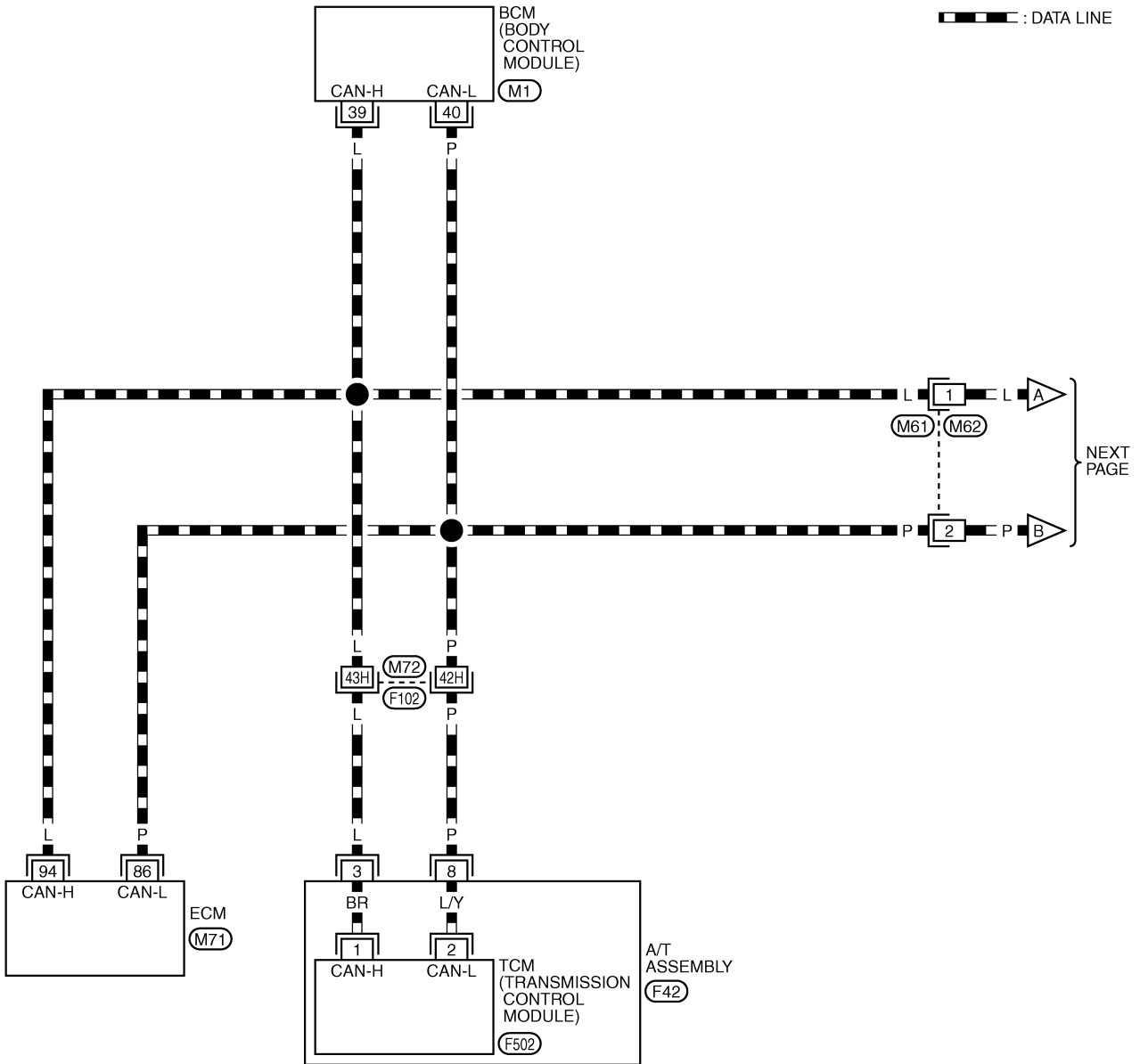
[CAN]

NKS003XZ

## Wiring Diagram — CAN —

LAN-CAN-01

▬ : DATA LINE



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

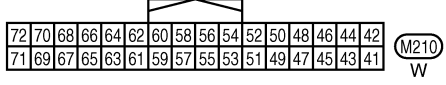
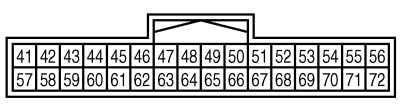
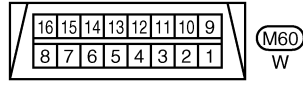
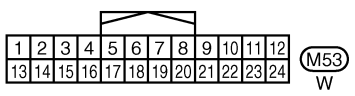
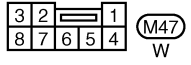
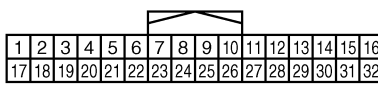
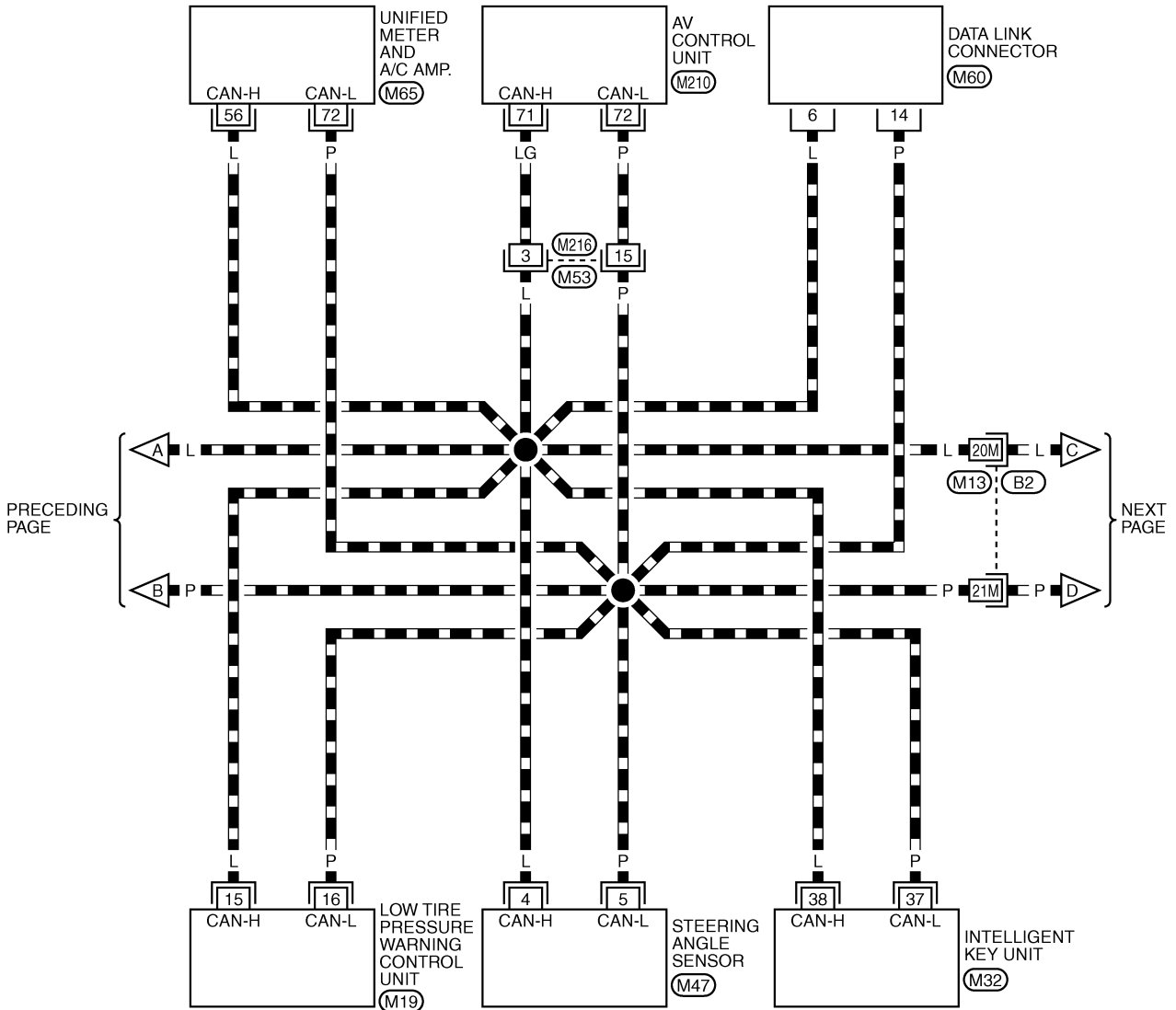
TKWT3248E

# CAN SYSTEM (TYPE 1)

[CAN]

## LAN-CAN-02

▬ : DATA LINE



REFER TO THE FOLLOWING.  
 (B2) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M32) -ELECTRICAL UNITS

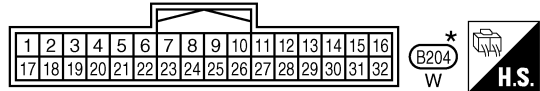
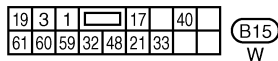
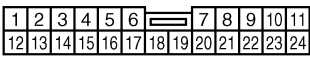
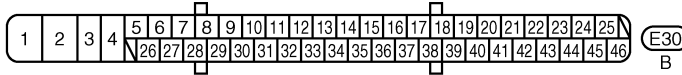
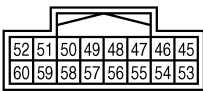
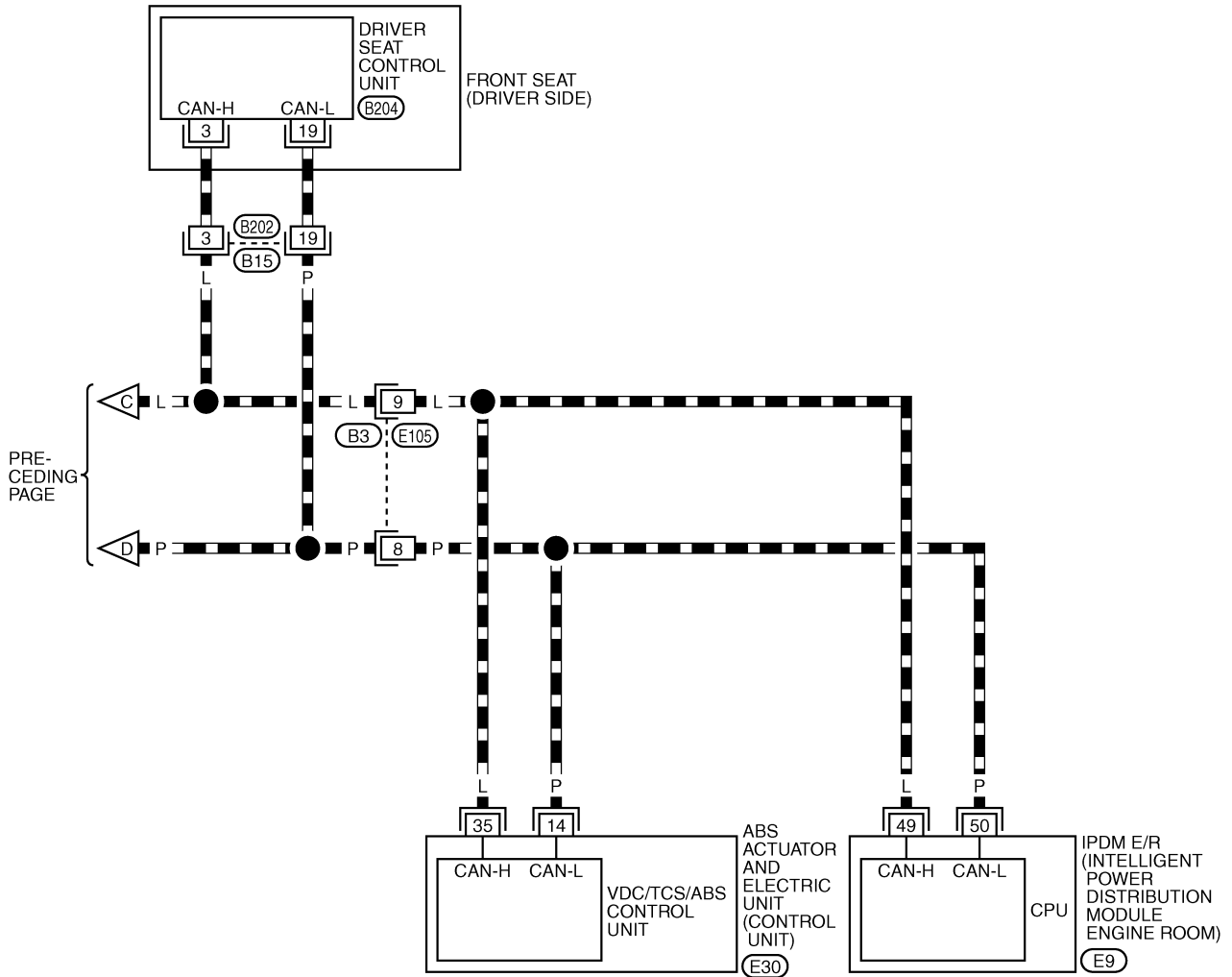
TKWT3249E

# CAN SYSTEM (TYPE 1)

[CAN]

## LAN-CAN-03

▬ : DATA LINE



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3250E



# CAN SYSTEM (TYPE 1)

**[CAN]**

NKS003Y0

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

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Check sheet table															
SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8380E

# CAN SYSTEM (TYPE 1)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9555E

# CAN SYSTEM (TYPE 1)

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Attach copy of  
ENGINE  
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BCM  
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AIR PRESSURE MONITOR  
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METER A/C AMP  
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PKIB9556E

# CAN SYSTEM (TYPE 1)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

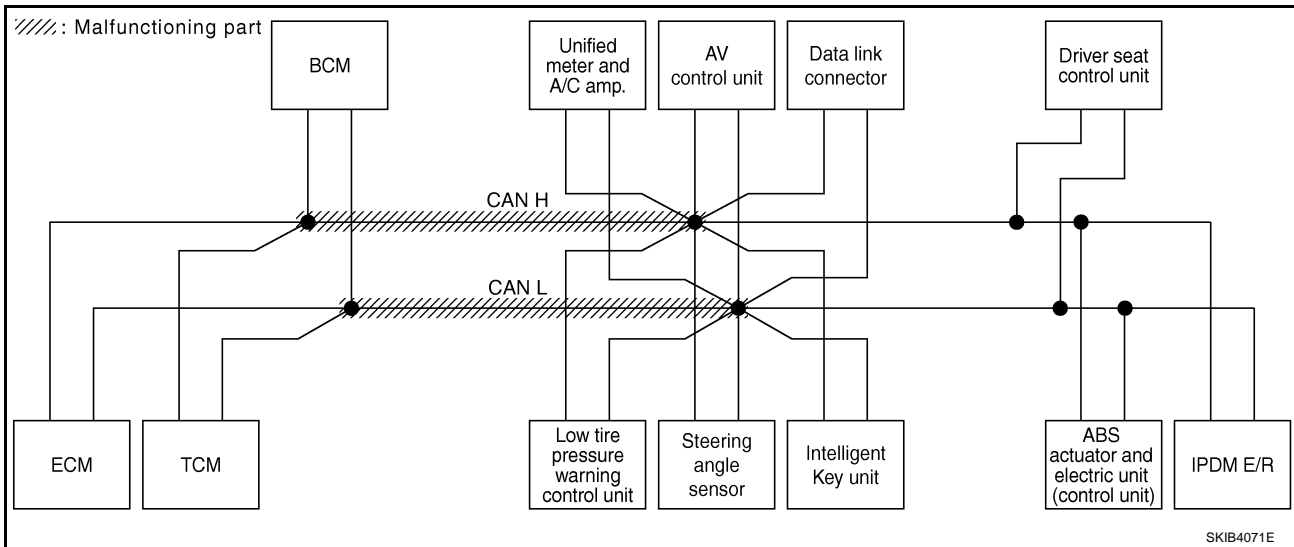
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-72. "Inspection Between TCM and Data Link Connector Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS						
		Initial diagnosis	Transmit diagnosis	Receive diagnosis															
				ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8381E



# CAN SYSTEM (TYPE 1)

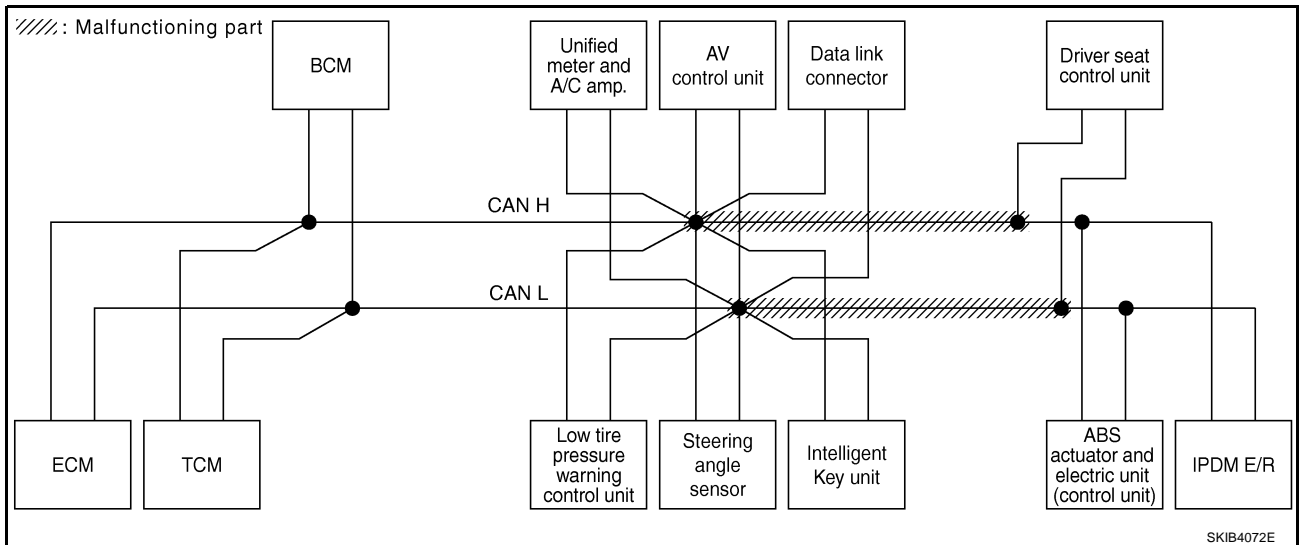
[CAN]

## Case 2

Check harness between data link connector and driver seat control unit. Refer to [LAN-73, "Inspection Between Data Link Connector and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8382E



SKIB4072E

# CAN SYSTEM (TYPE 1)

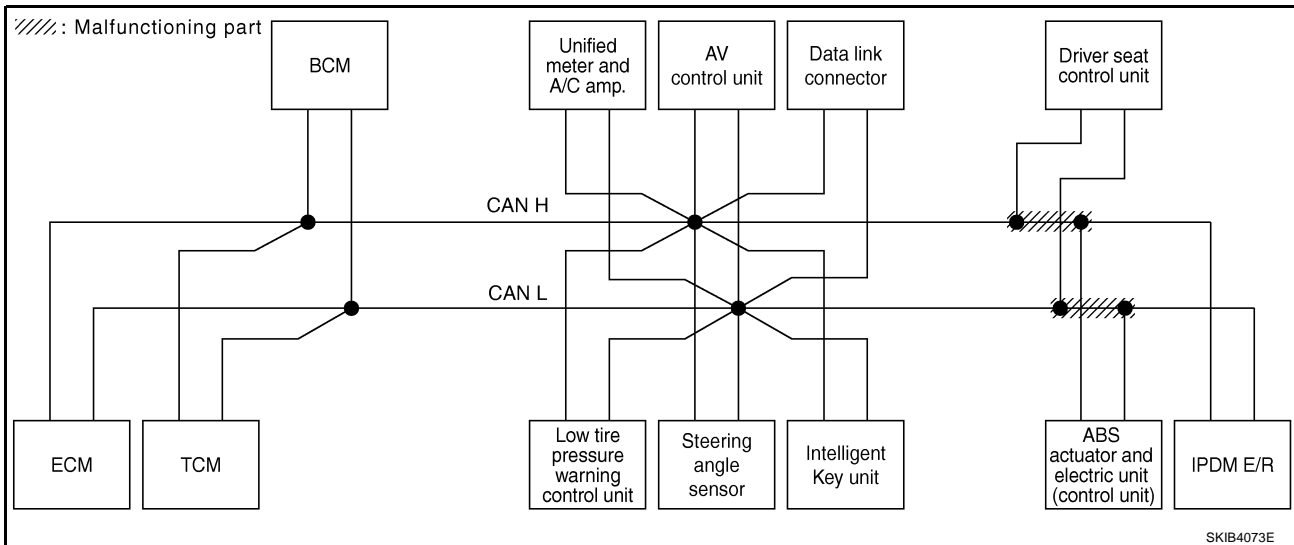
[CAN]

## Case 3

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to LAN-74, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit" .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8383E



SKIB4073E

# CAN SYSTEM (TYPE 1)

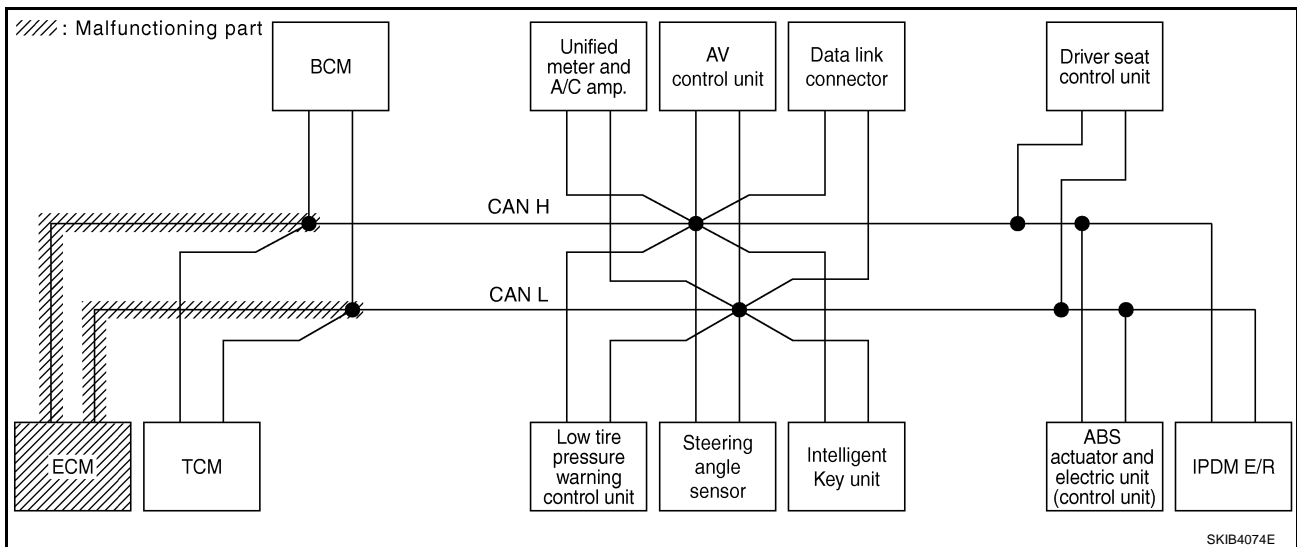
[CAN]

## Case 4

Check ECM circuit. Refer to [LAN-75, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R					
ENGINE	—	—	UNKWN	—	✓	✓	—	—	—	—	✓	—	✓	✓	CAN COMM CIRCUIT (U100)	✓	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	✓	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—	—
BCM	No indication	—	UNKWN	✓	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	✓	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—	—
INTELLIGENT KEY	No indication	—	UNKWN	✓	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—	—
METER A/C AMP	No indication	—	UNKWN	✓	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—	—
MULTI AV	No indication	—	UNKWN	✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	—
ABS	—	NG	UNKWN	✓	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—	—
IPDM E/R	No indication	—	UNKWN	✓	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—	—

PKIB8384E



# CAN SYSTEM (TYPE 1)

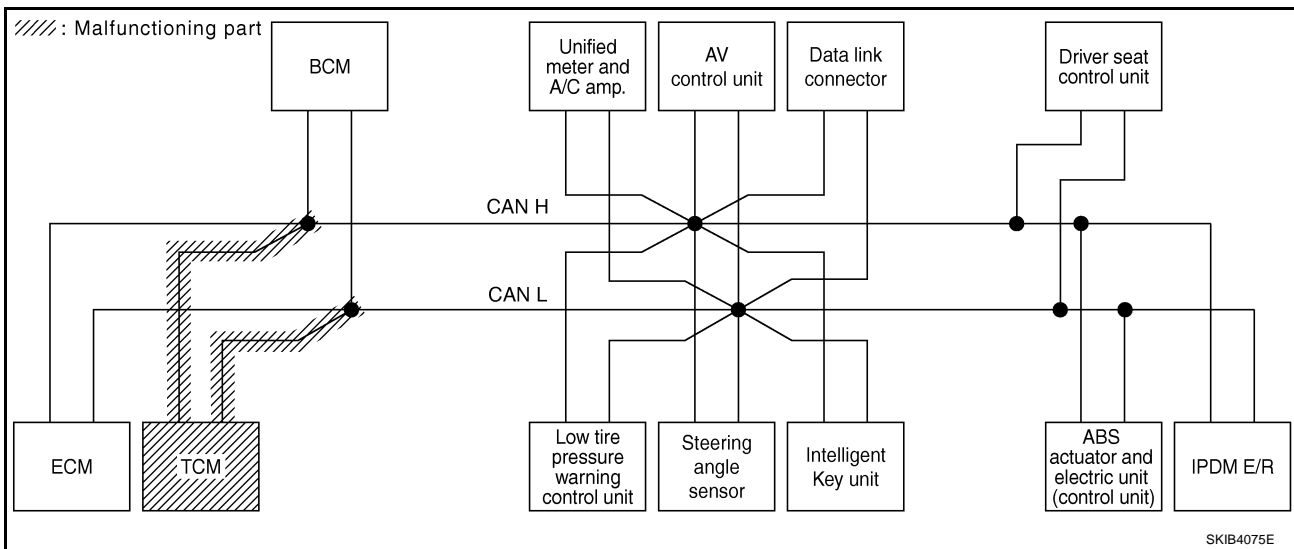
[CAN]

## Case 5

Check TCM circuit. Refer to [LAN-75, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS					
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R						
ENGINE	—	—	UNKWN	—	✓	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	✓	CAN COMM CIRCUIT (U101)	✓
A/T	—	NG	UNKWN	✓	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	✓	—	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	—	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	—	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	✓	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	✓	—	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	—	—
AUTO DRIVE POS.	No indication	NG	—	—	✓	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	✓	—	—
ABS	—	NG	UNKWN	UNKWN	✓	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	✓	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	—	—

PKIB8385E



SKIB4075E



# CAN SYSTEM (TYPE 1)

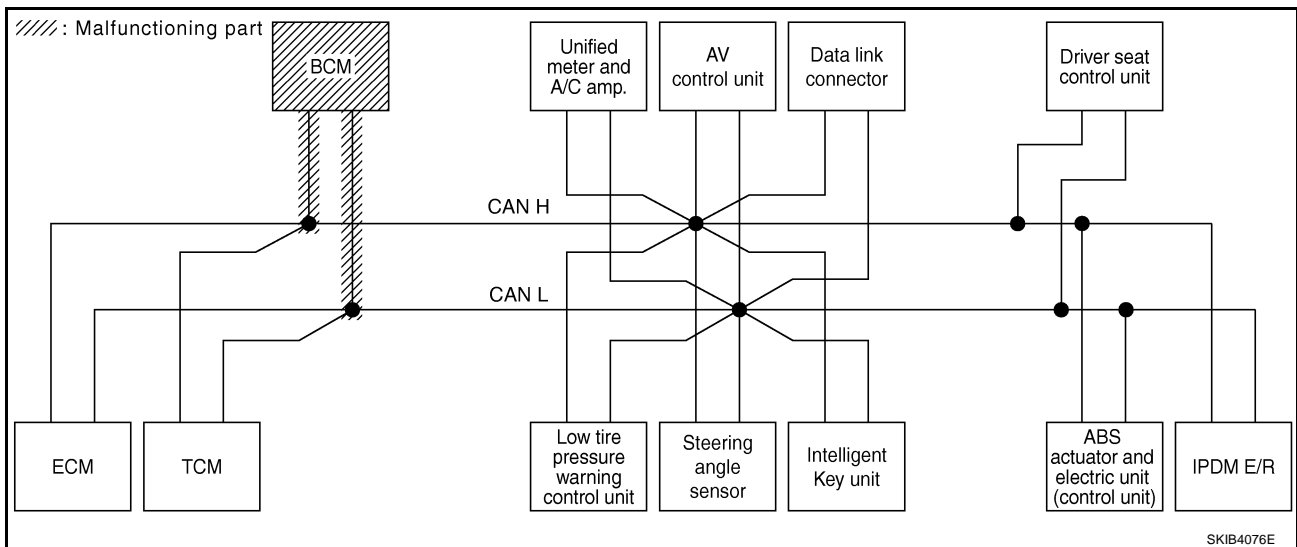
[CAN]

## Case 6

Check BCM circuit. Refer to [LAN-76, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	✓	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	✓	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	✓	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	✓	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	✓	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8386E



# CAN SYSTEM (TYPE 1)

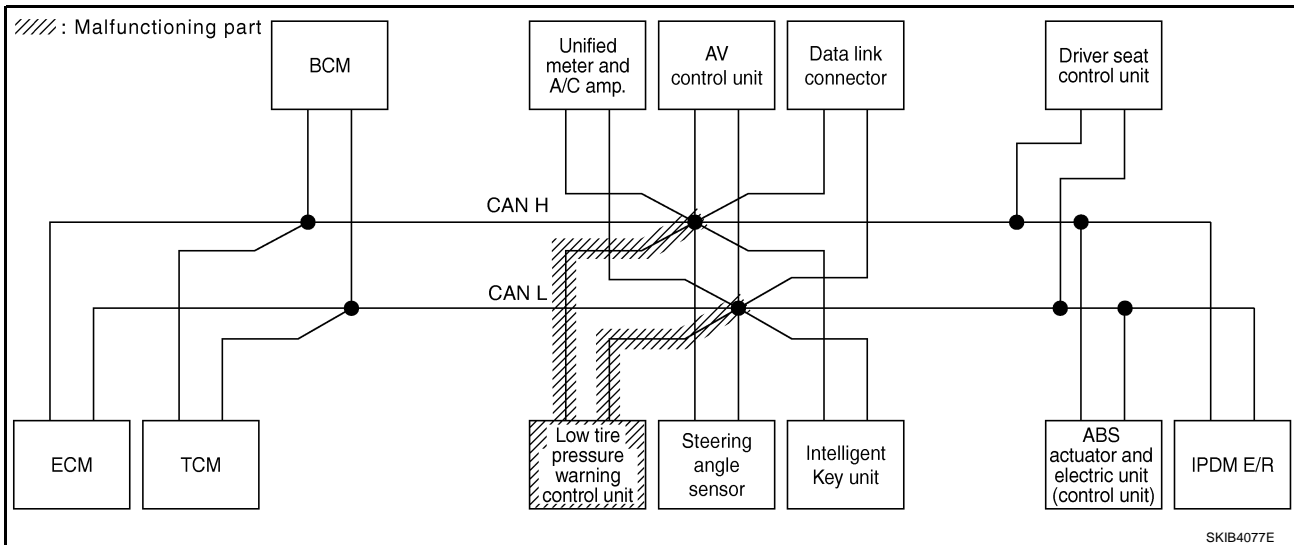
[CAN]

## Case 7

Check low tire pressure warning control unit circuit. Refer to [LAN-76, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8387E



SKIB4077E

# CAN SYSTEM (TYPE 1)

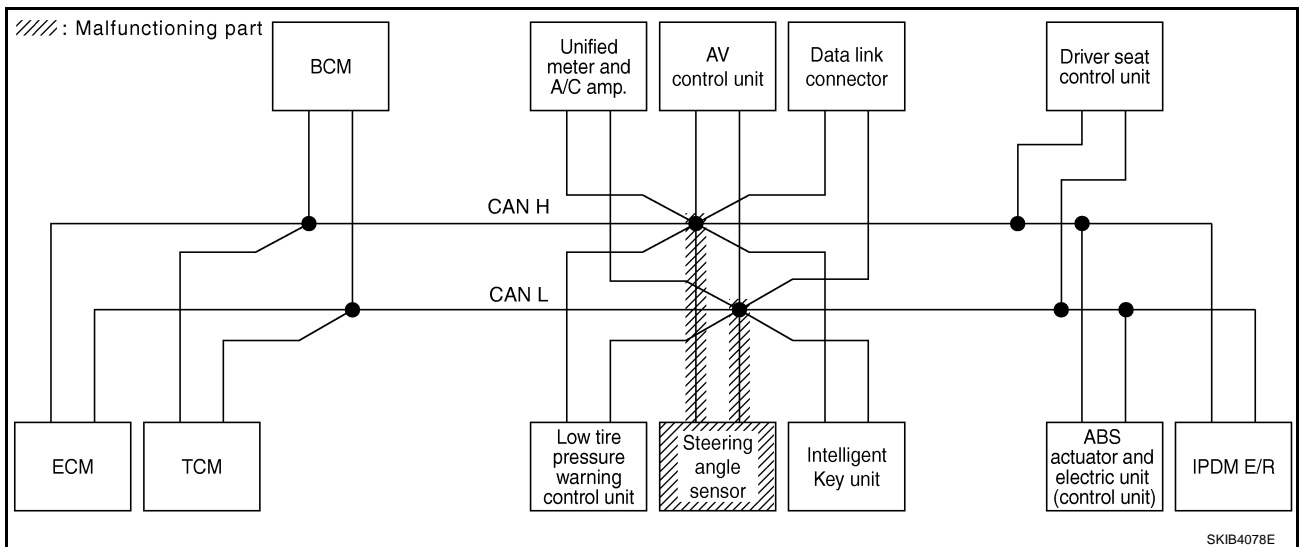
[CAN]

## Case 8

Check steering angle sensor circuit. Refer to [LAN-77, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8388E



# CAN SYSTEM (TYPE 1)

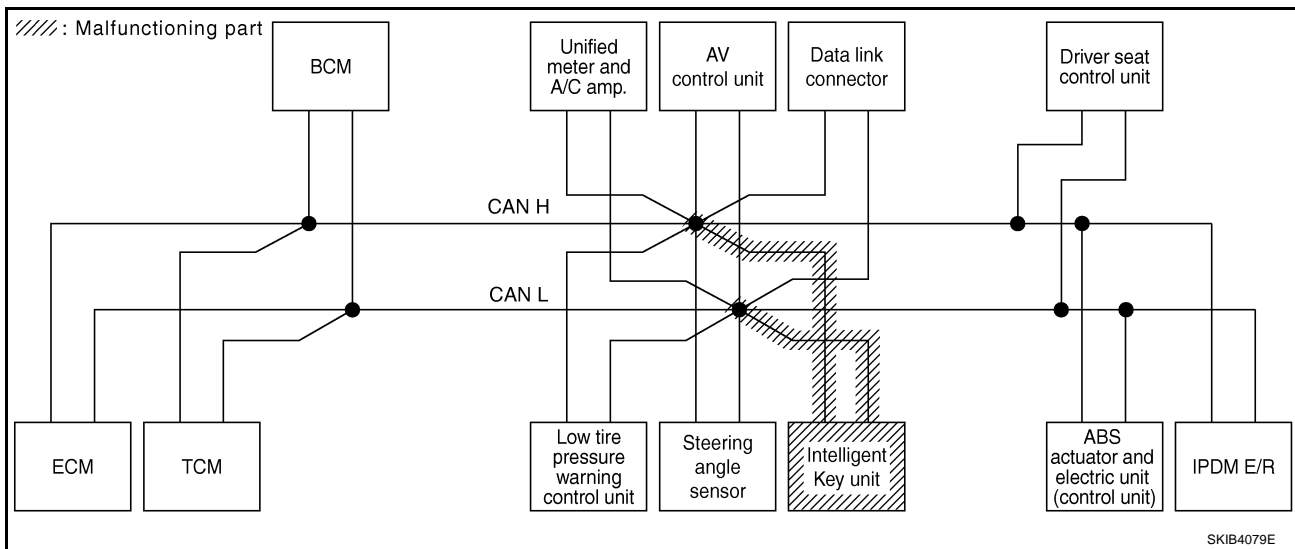
[CAN]

## Case 9

Check Intelligent Key unit circuit. Refer to [LAN-77, "Intelligent Key Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	✓	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	✓	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8389E



SKIB4079E

# CAN SYSTEM (TYPE 1)

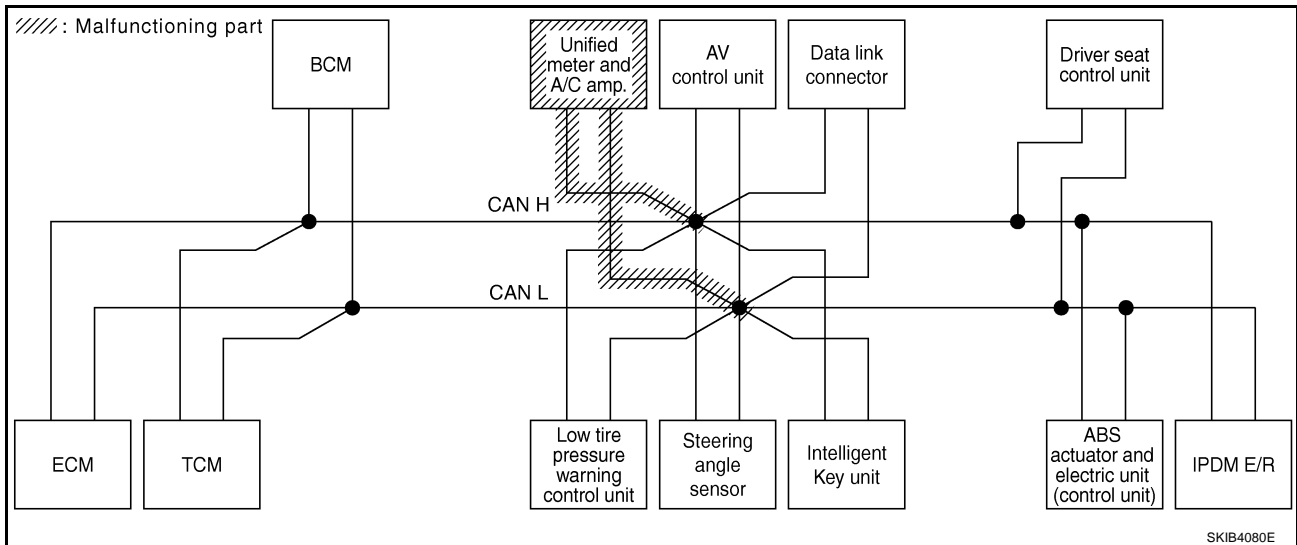
[CAN]

## Case 10

Check unified meter and A/C amp. circuit. Refer to [LAN-78, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8390E



SKIB4080E

# CAN SYSTEM (TYPE 1)

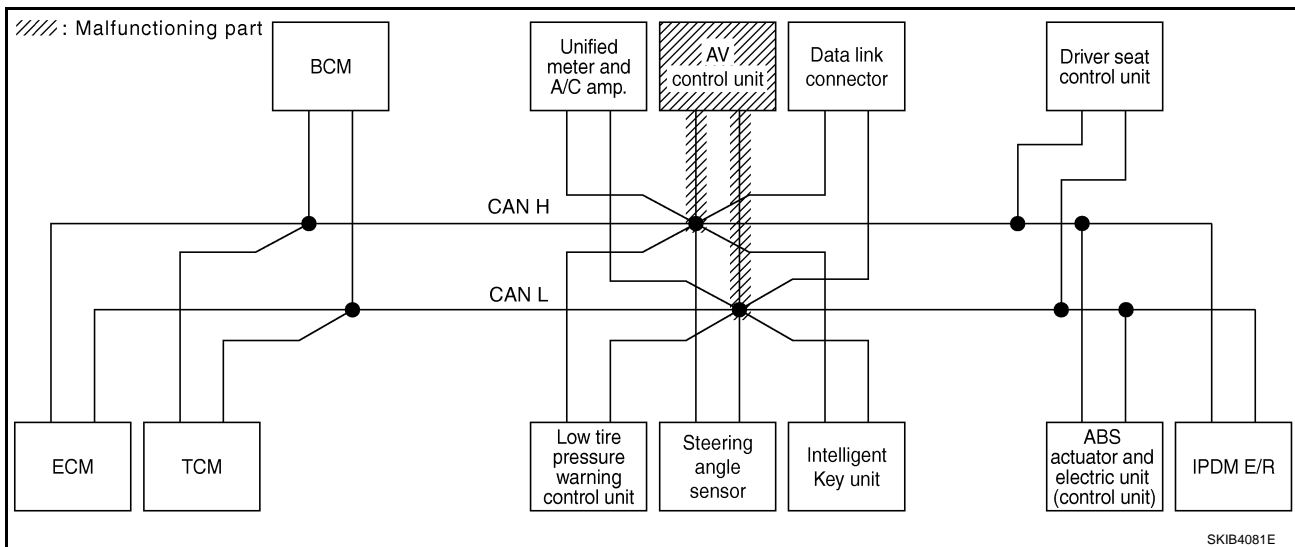
[CAN]

## Case 11

Check AV control unit circuit. Refer to [LAN-78, "AV Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8391E



SKIB4081E

# CAN SYSTEM (TYPE 1)

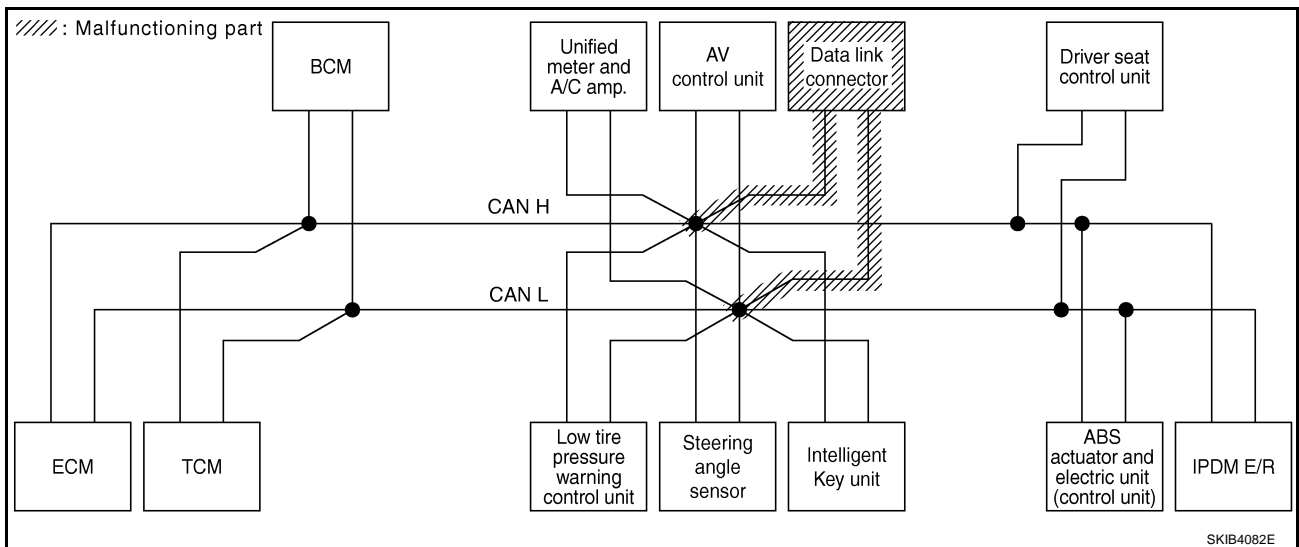
[CAN]

## Case 12

Check data link connector circuit. Refer to [LAN-79, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8392E



# CAN SYSTEM (TYPE 1)

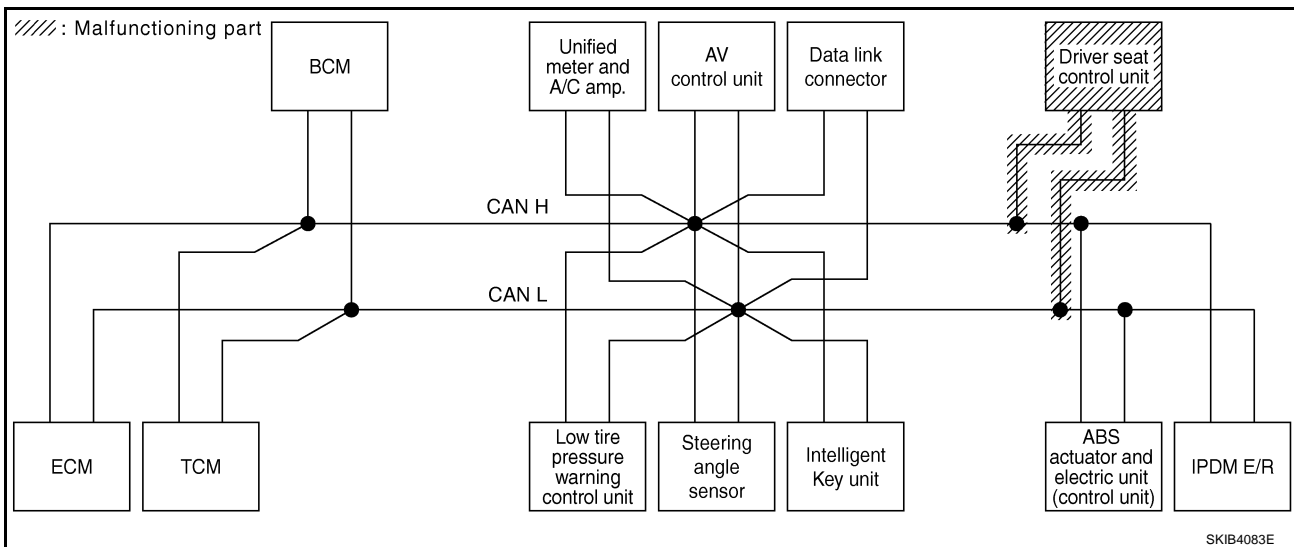
[CAN]

## Case 13

Check driver seat control unit circuit. Refer to [LAN-79, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8393E



SKIB4083E



# CAN SYSTEM (TYPE 1)

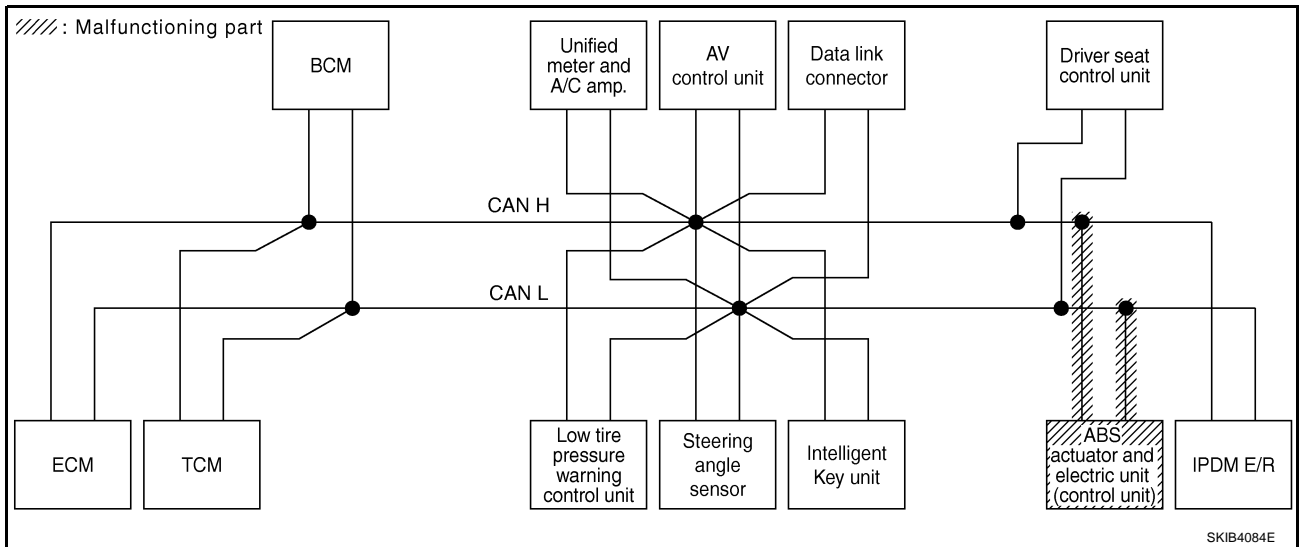
[CAN]

## Case 14

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-80, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	✓	✓	✓	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8394E



SKIB4084E

# CAN SYSTEM (TYPE 1)

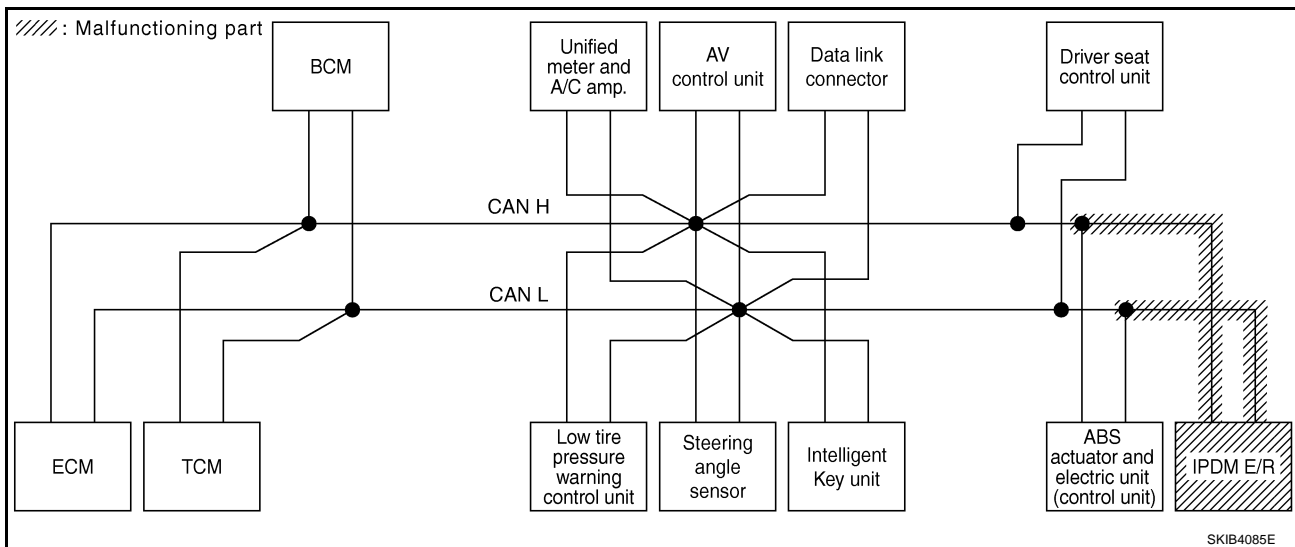
[CAN]

## Case 15

Check IPDM E/R circuit. Refer to [LAN-80, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8395E



SKIB4085E

# CAN SYSTEM (TYPE 1)

[CAN]

## Case 16

Check CAN communication circuit. Refer to [LAN-81, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	—	UNKW	—	✓	✓	—	—	—	—	✓	—	✓	✓	CAN COMM CIRCUIT (U100)	✓ CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	✓	—	—	—	—	—	—	✓	—	✓	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication ✓	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication ✓	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication ✓	—	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication ✓	—	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication ✓	—	UNKW	UNKW	—	UNKW	UNKW	—	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	✓	✓	✓	✓	—	—	✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication ✓	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8396E

## Case 17

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-88, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	—	UNKW	—	✓	UNKW	—	—	—	—	UNKW	—	✓	UNKW	CAN COMM CIRCUIT (U100)	✓ CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	✓	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	✓	UNKW	—	—	—	UNKW	—	✓	UNKW	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	✓	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	✓	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	UNKW	UNKW	—	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	✓	UNKW	UNKW	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8397E

## Case 18

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-88, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8398E

## Inspection Between TCM and Data Link Connector Circuit

NKS003Y1

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

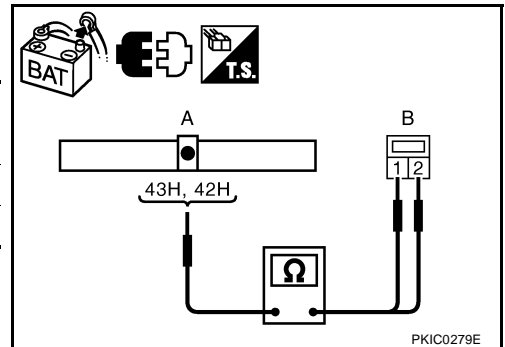
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

**OK or NG**

- OK >> GO TO 3.  
 NG >> Repair harness.



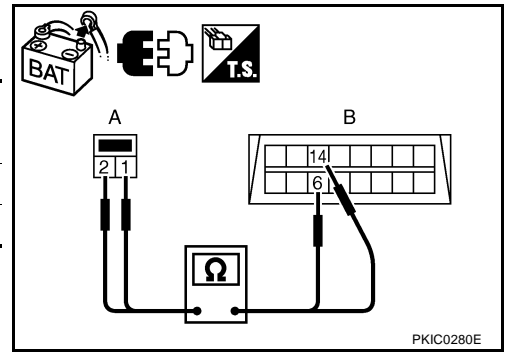
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and Driver Seat Control Unit Circuit

NKS003Y2

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

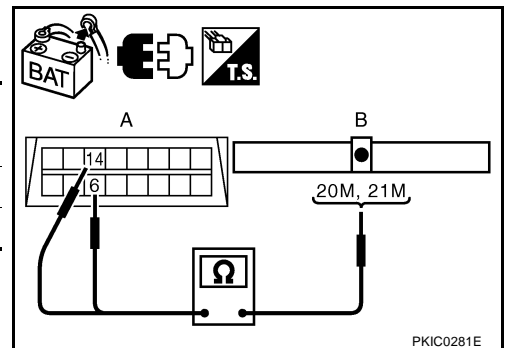
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

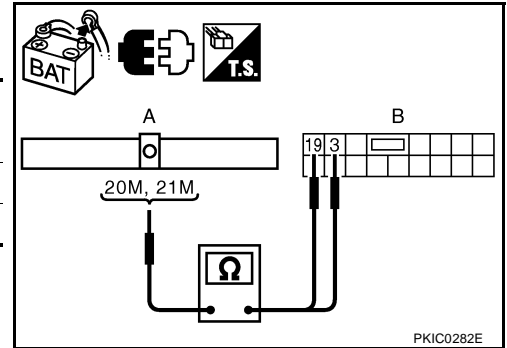
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B15	3	Yes
	21M		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS003Y3

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

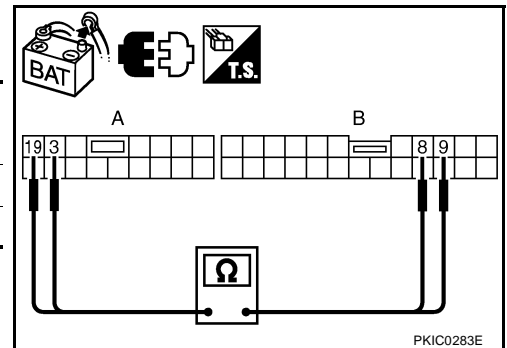
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

- OK >> GO TO 3.
- NG >> Repair harness.



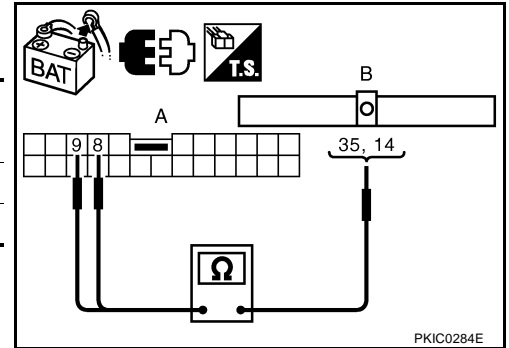
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9. "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



## ECM Circuit Inspection

NKS003Y4

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

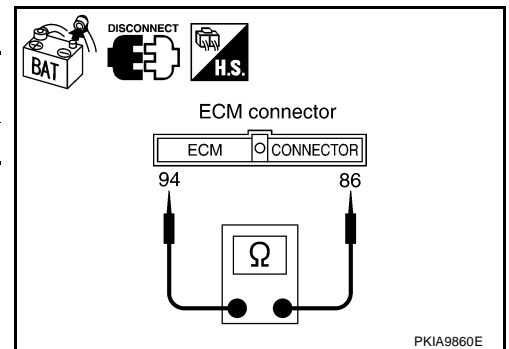
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

**OK or NG**

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.



LAN

## TCM Circuit Inspection

NKS003Y5

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

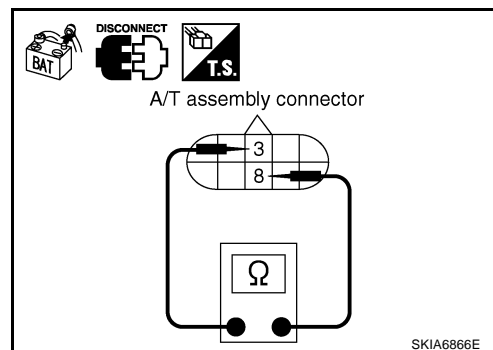
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

### OK or NG

- OK >> Replace control valve with TCM.  
 NG >> Repair harness between A/T assembly and BCM.



## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

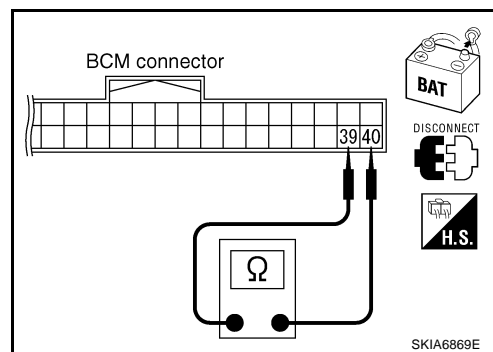
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

### OK or NG

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#) .  
 NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.



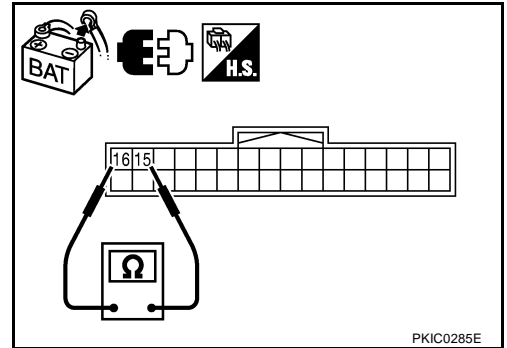
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

**OK or NG**

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



NKS003Y8

## Steering Angle Sensor Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

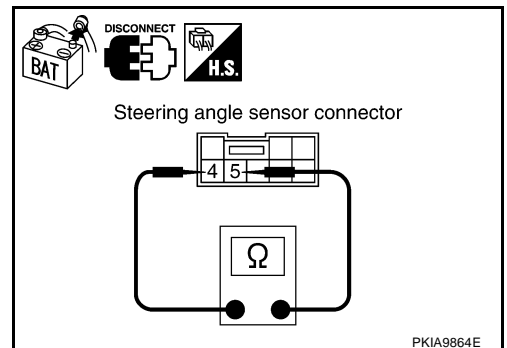
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	4	5	54 – 66 Ω

**OK or NG**

- OK >> Replace steering angle sensor.
- NG >> Repair harness between steering angle sensor and data link connector.



NKS003Y9

## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

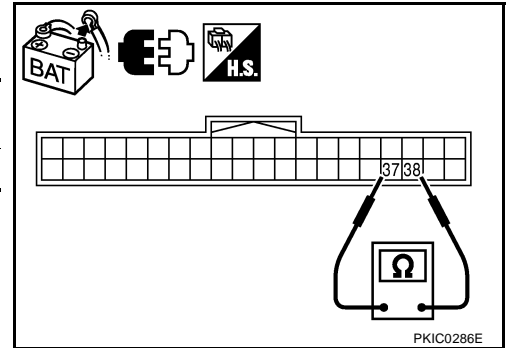
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
	38	37	
M32	38	37	54 – 66 Ω

### OK or NG

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS003YA

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

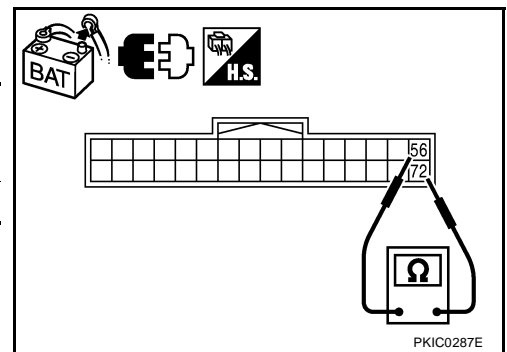
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
	56	72	
M65	56	72	54 – 66 Ω

### OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS003YB

## AV Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AV control unit connector
  - Harness connector M216
  - Harness connector M53

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

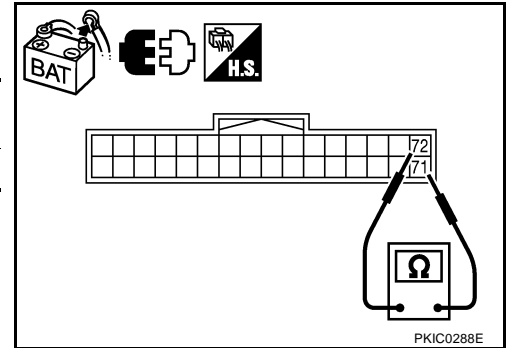
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AV control unit connector.
2. Check resistance between AV control unit harness connector terminals.

AV control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

### OK or NG

- OK >> Replace AV control unit.  
 NG >> Repair harness between AV control unit and data link connector.



NKS003YC

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

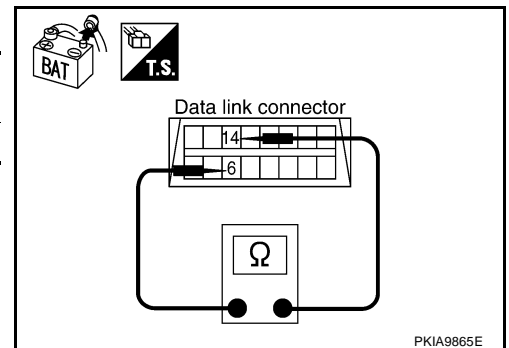
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

### OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#) .  
 NG >> Repair harness between data link connector and harness connector M13.



NKS003YD

## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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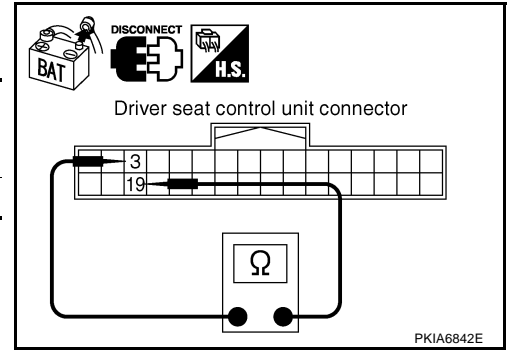
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

**OK or NG**

- OK >> Replace driver seat control unit.  
 NG >> Repair harness between driver seat control unit and harness connector B3.



## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

NKS003YE

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

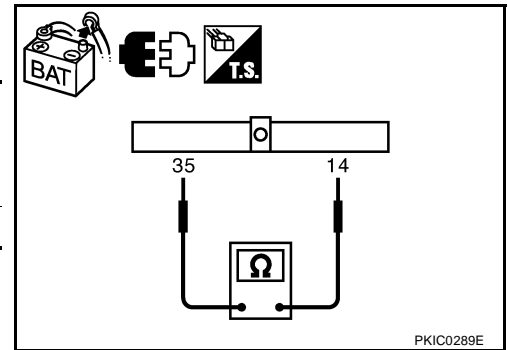
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

**OK or NG**

- OK >> Replace ABS actuator and electric unit (control unit).  
 NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



## IPDM E/R Circuit Inspection

NKS003YF

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

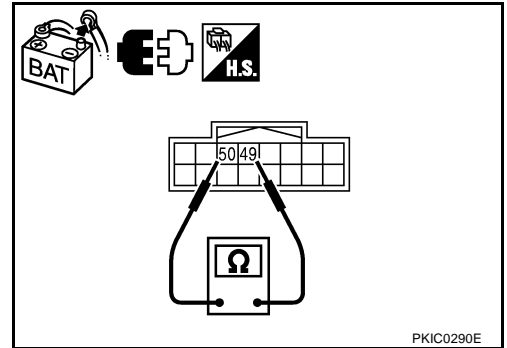
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

### OK or NG

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and harness connector E105.



NKS003YG

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
  - Between ECM and A/T assembly
  - Between ECM and AV control unit
  - Between ECM and driver seat control unit
  - Between ECM and IPDM E/R

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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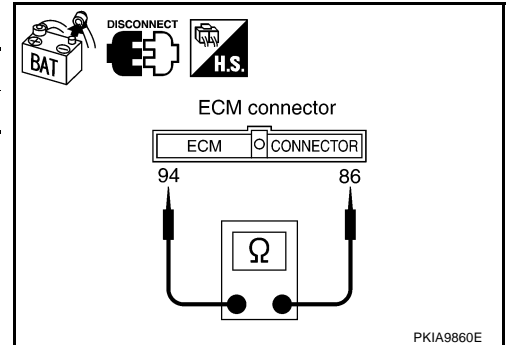
## 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



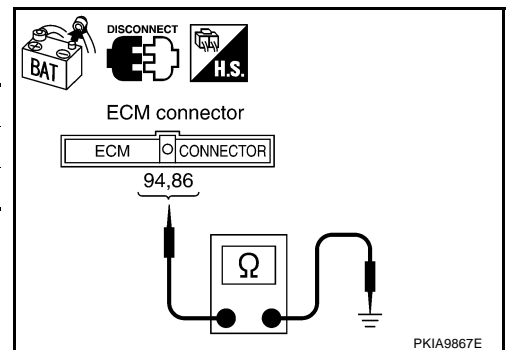
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		No
	86	No	

**OK or NG**

- OK >> GO TO 4.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



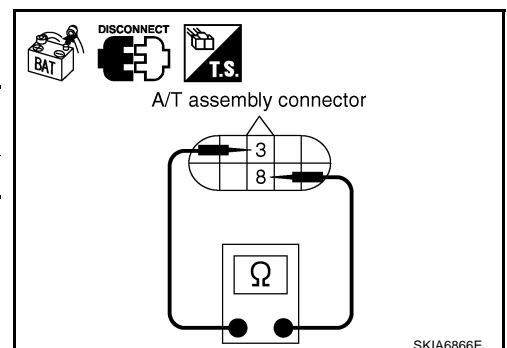
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.  
 NG >> Repair harness between A/T assembly and harness connector F102.



## 5. CHECK HARNESS FOR SHORT CIRCUIT

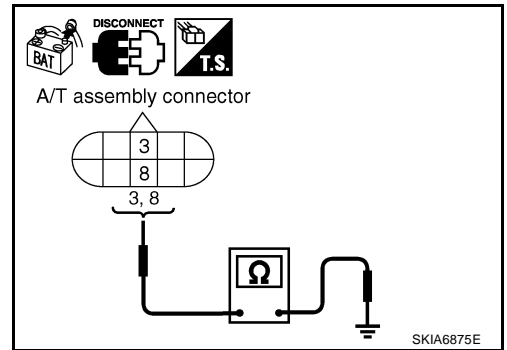
Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

OK or NG

OK >> GO TO 6.

NG >> Repair harness between A/T assembly and harness connector F102.



## 6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

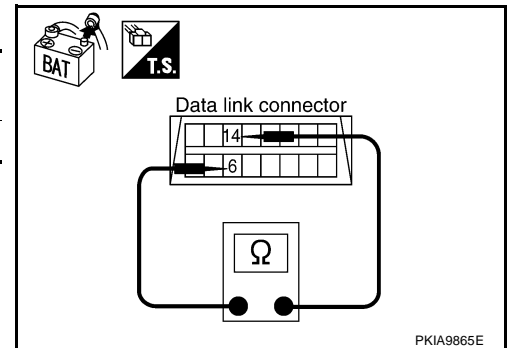
Data link connector	Terminal		Continuity
M60	6	14	No

OK or NG

OK >> GO TO 7.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13

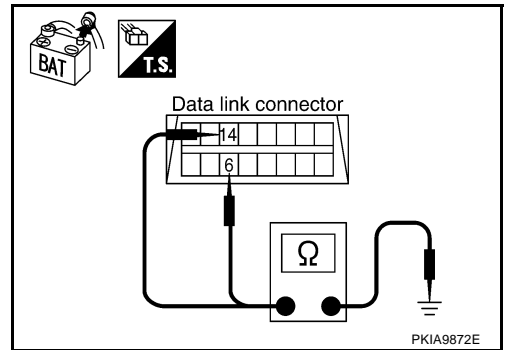


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## 7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

Data link connector	Terminal	Ground	Continuity
M60	6		
	14	No	



### OK or NG

OK >> GO TO 8.

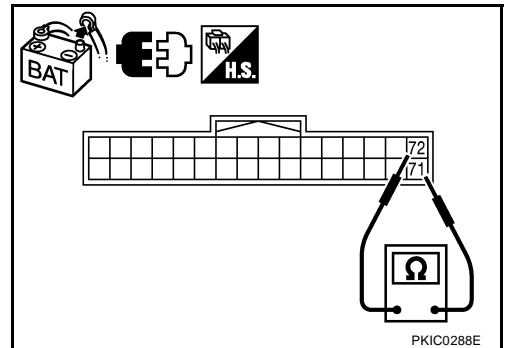
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13

## 8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect AV control unit connector.
2. Check continuity between AV control unit harness connector terminals.

AV control unit connector	Terminal	Terminal	Continuity
M210	71	72	No



### OK or NG

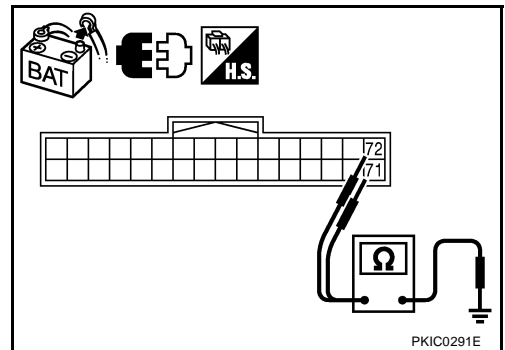
OK >> GO TO 9.

NG >> Repair harness between AV control unit and harness connector M216.

## 9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between AV control unit harness connector terminals and ground.

AV control unit connector	Terminal	Ground	Continuity
M210	71		
	72	No	



### OK or NG

OK >> GO TO 10.

NG >> Repair harness between AV control unit and harness connector M216.



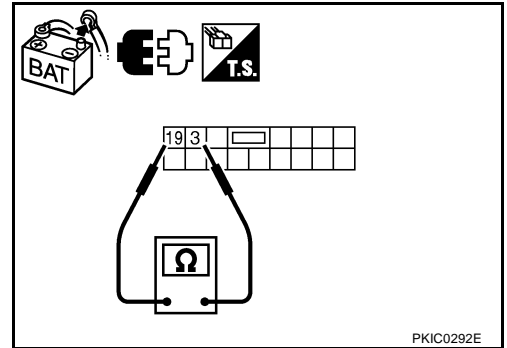
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 11.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between harness connector B15 and harness connector B2
  - Harness between harness connector B15 and harness connector B3



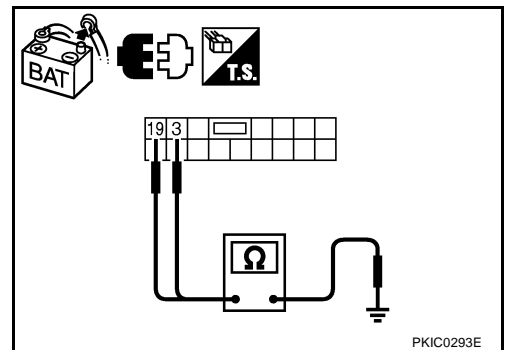
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3	Ground	No
	19		No

**OK or NG**

- OK >> GO TO 12.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between harness connector B15 and harness connector B2
  - Harness between harness connector B15 and harness connector B3



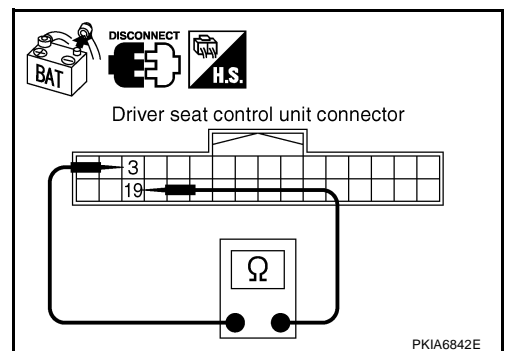
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Continuity
B204	3	19	No

**OK or NG**

- OK >> GO TO 13.
- NG >> Repair harness between driver seat control unit and harness connector B202.



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### 13. CHECK HARNESS FOR SHORT CIRCUIT

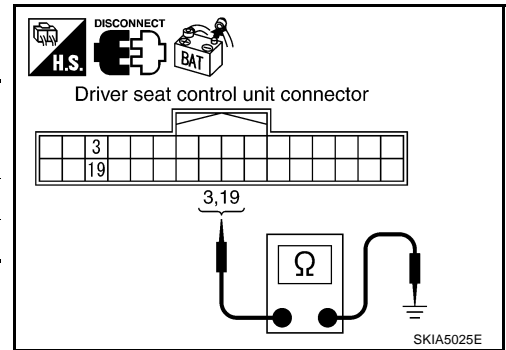
Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3	Ground	No
	19		No

OK or NG

OK >> GO TO 14.

NG >> Repair harness between driver seat control unit and harness connector B202.



### 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

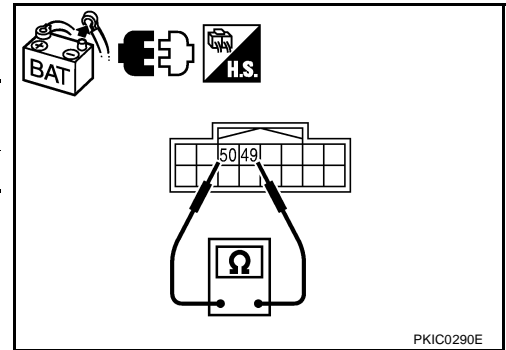
IPDM E/R connector	Terminal	Continuity
E9	49 50	No

OK or NG

OK >> GO TO 15.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



### 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

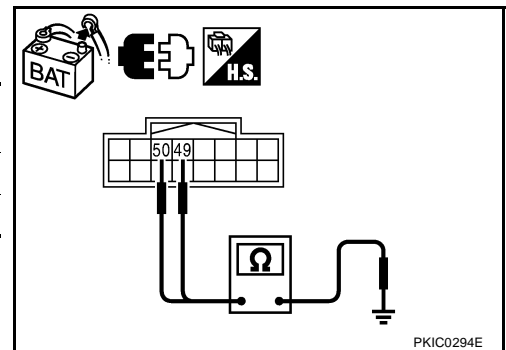
IPDM E/R connector	Terminal	Ground	Continuity
E9	49	Ground	No
	50		No

OK or NG

OK >> GO TO 16.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



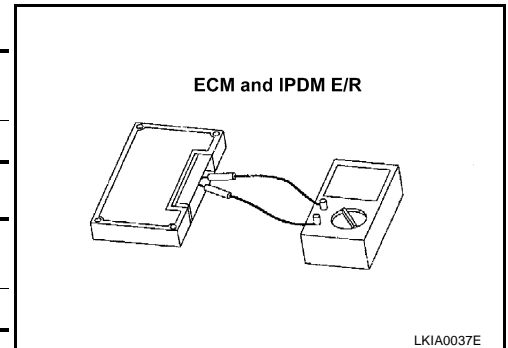
**16. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT**

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω

**OK or NG**

- OK >> GO TO 17.  
 NG >> Replace ECM and/or IPDM E/R.

**17. CHECK SYMPTOM**

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

**OK or NG**

- OK >> GO TO 18.  
 NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

**18. CHECK UNIT REPRODUCIBILITY**

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

**Check results**

- Reproduce>>Install removed unit, and then check the other unit.  
 Not reproduced>>Replace removed unit.

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## IPDM E/R Ignition Relay Circuit Inspection

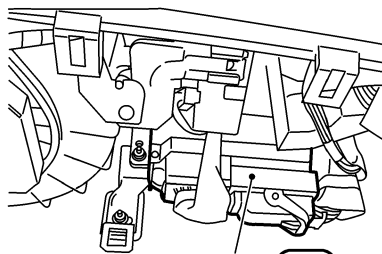
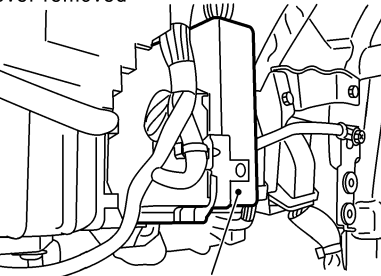
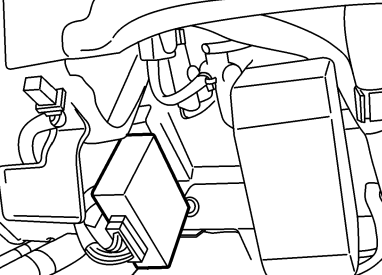
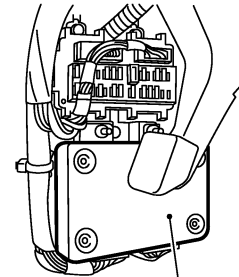
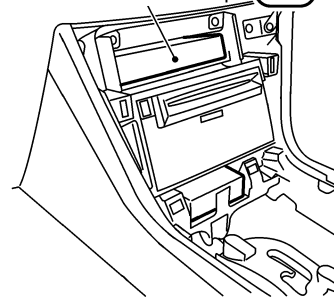
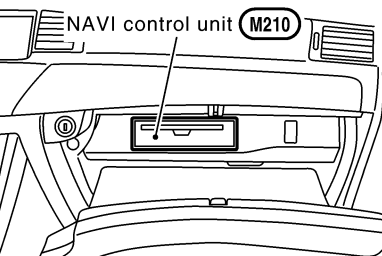
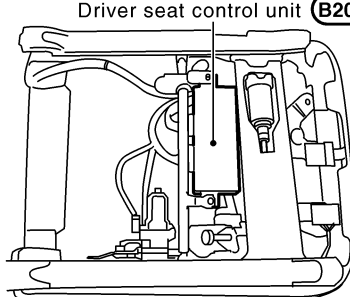
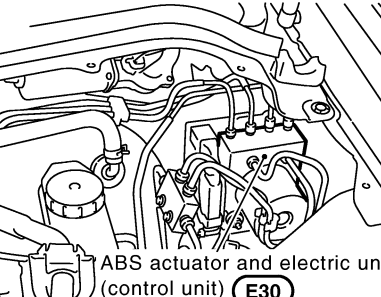
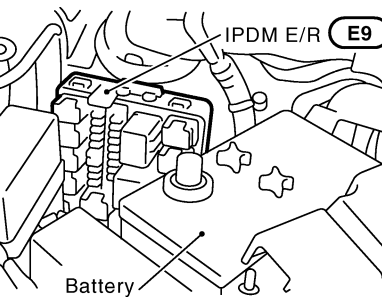
NKS003YH

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START""](#) .

## CAN SYSTEM (TYPE 2)

### Component Parts and Harness Connector Location

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>	<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>
<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p> <p>Unified meter and A/C amp. (M65)</p> 	<p>Inside of glove box</p>  <p>NAVI control unit (M210)</p>
<p>Under driver's seat</p> <p>Driver seat control unit (B204)</p> 	<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>

PKIC0600E

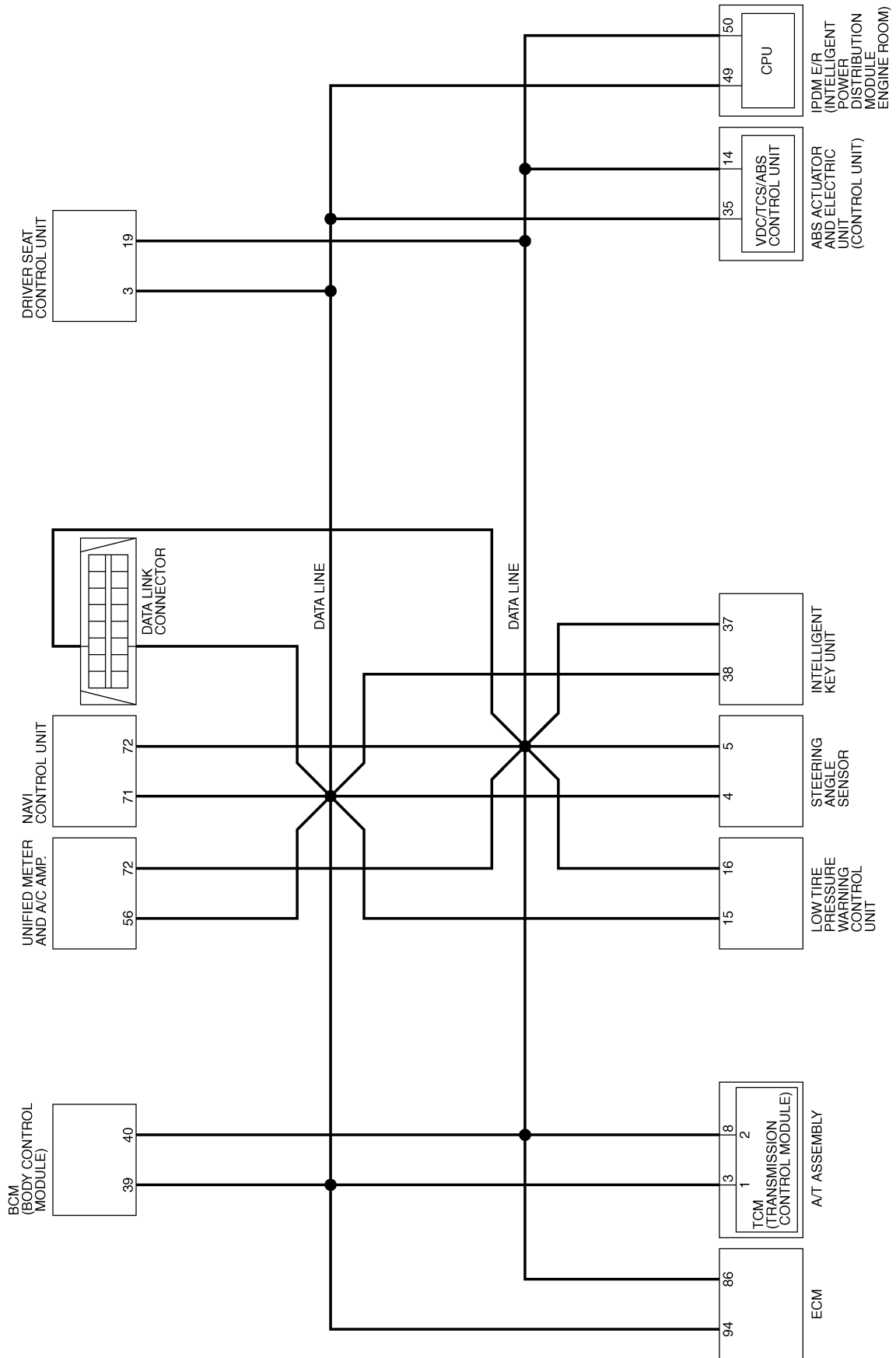
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# CAN SYSTEM (TYPE 2)

[CAN]

## Schematic

NKS003YJ



TKWT3251E

# CAN SYSTEM (TYPE 2)

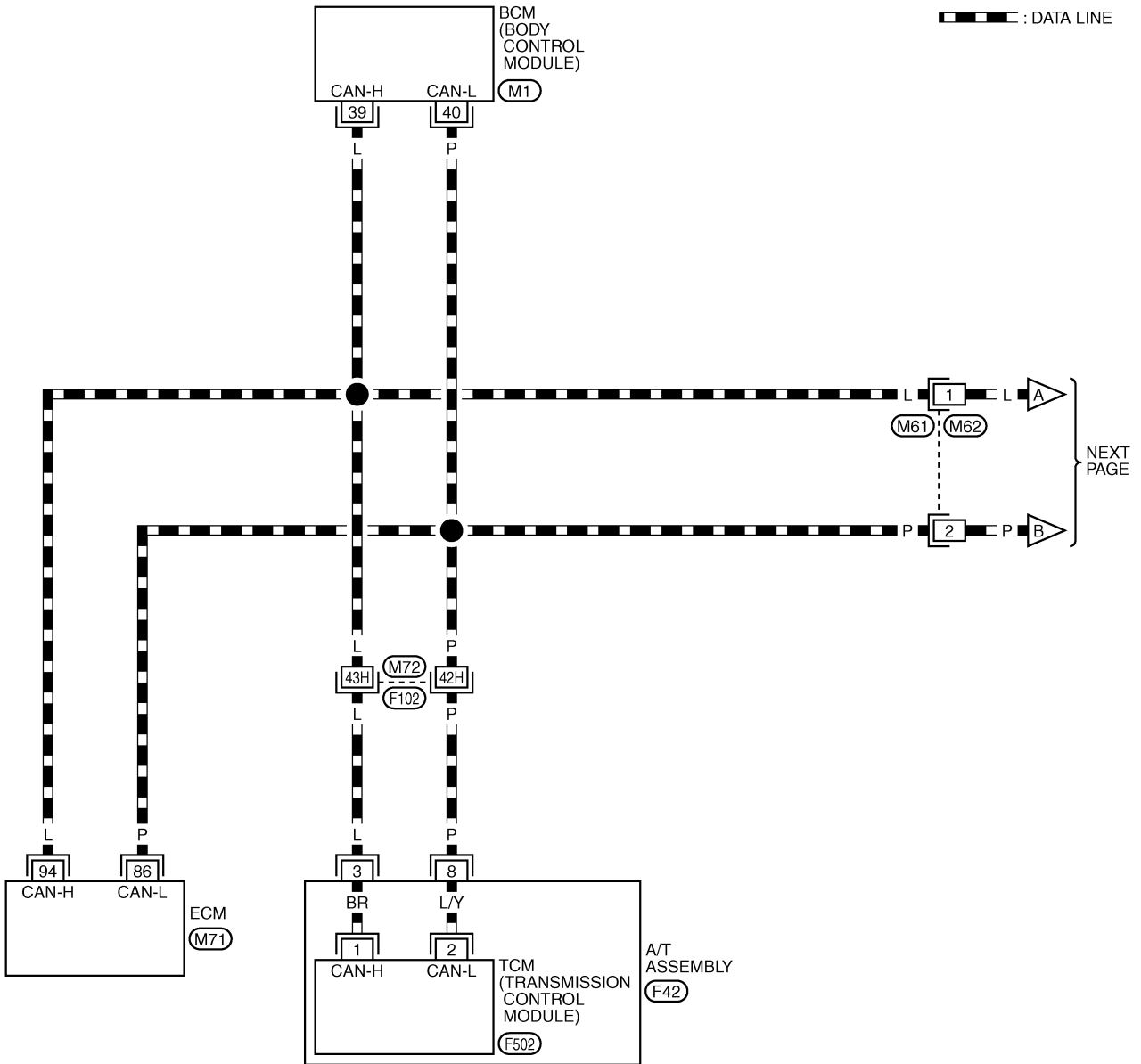
[CAN]

NKS003YK

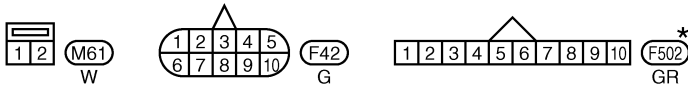
## Wiring Diagram — CAN —

LAN-CAN-04

▬ : DATA LINE



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M



REFER TO THE FOLLOWING.

- (F102) -SUPER MULTIPLE JUNCTION (SMJ)
- (M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

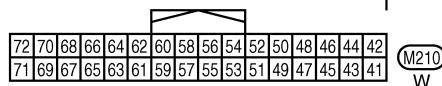
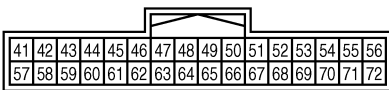
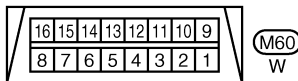
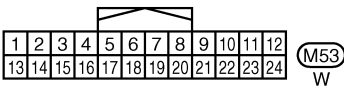
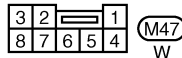
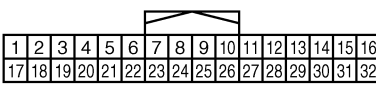
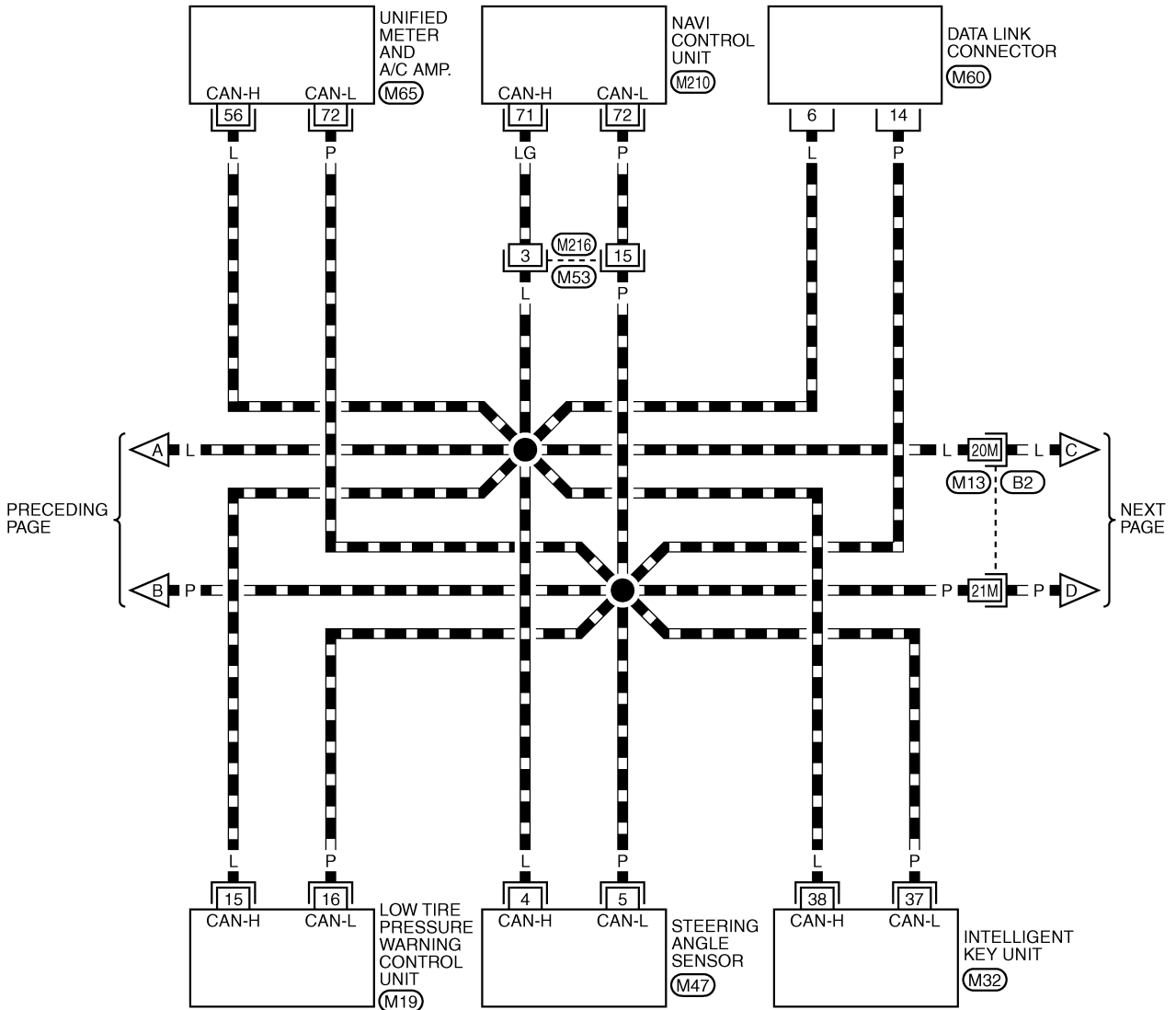
TKWT3252E

# CAN SYSTEM (TYPE 2)

[CAN]

## LAN-CAN-05

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

TKWT3253E

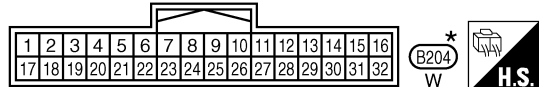
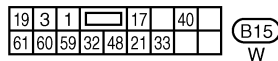
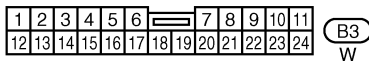
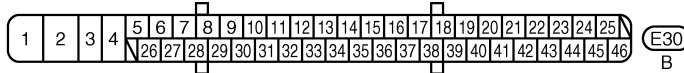
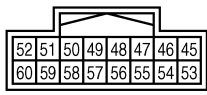
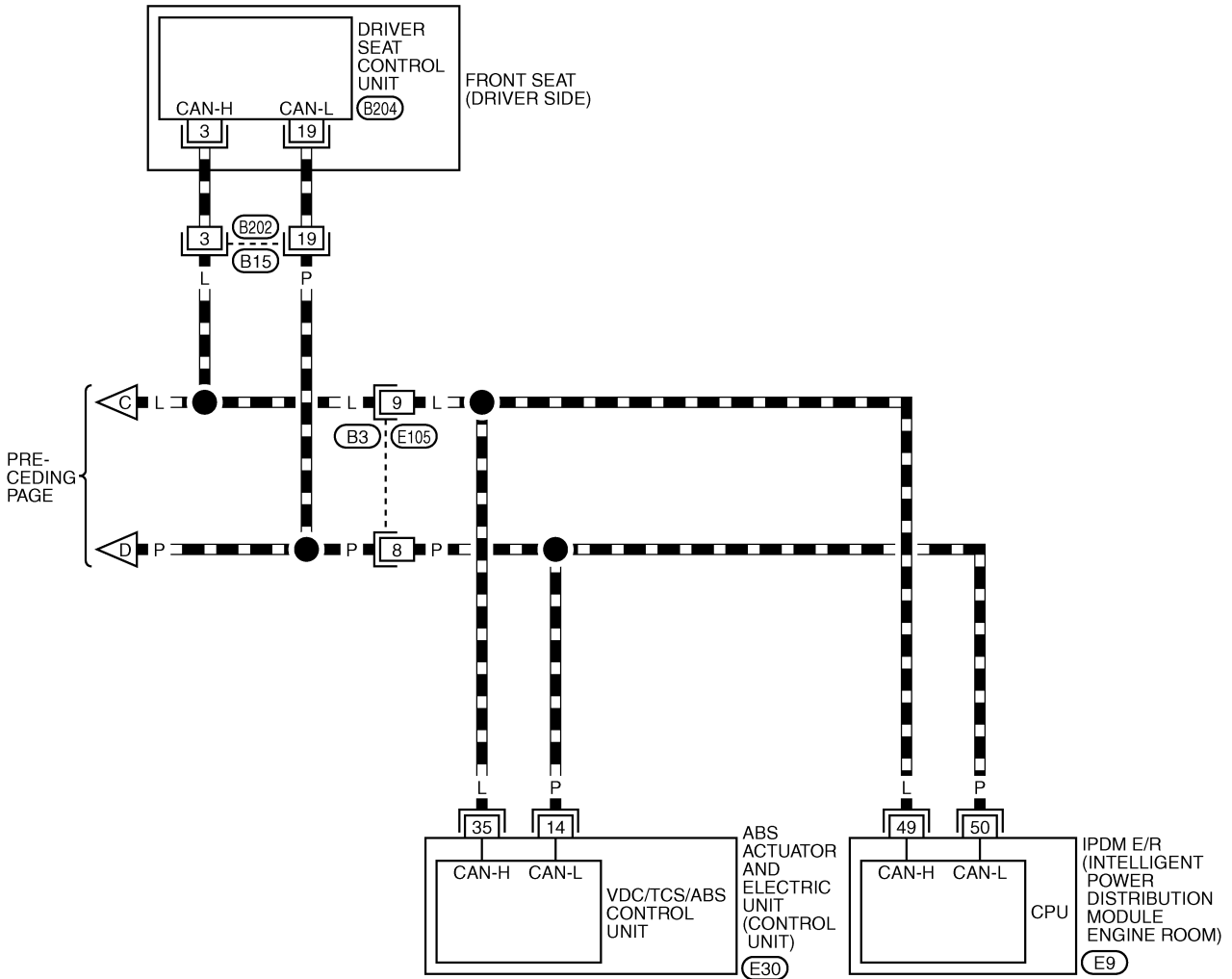


# CAN SYSTEM (TYPE 2)

[CAN]

LAN-CAN-06

DATA LINE



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3254E

# CAN SYSTEM (TYPE 2)

[CAN]

NKS003YL

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Check sheet table															
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8380E

# CAN SYSTEM (TYPE 2)

[CAN]

A  
B  
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LAN  
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M

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9555E

# CAN SYSTEM (TYPE 2)

[CAN]

Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9556E

# CAN SYSTEM (TYPE 2)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

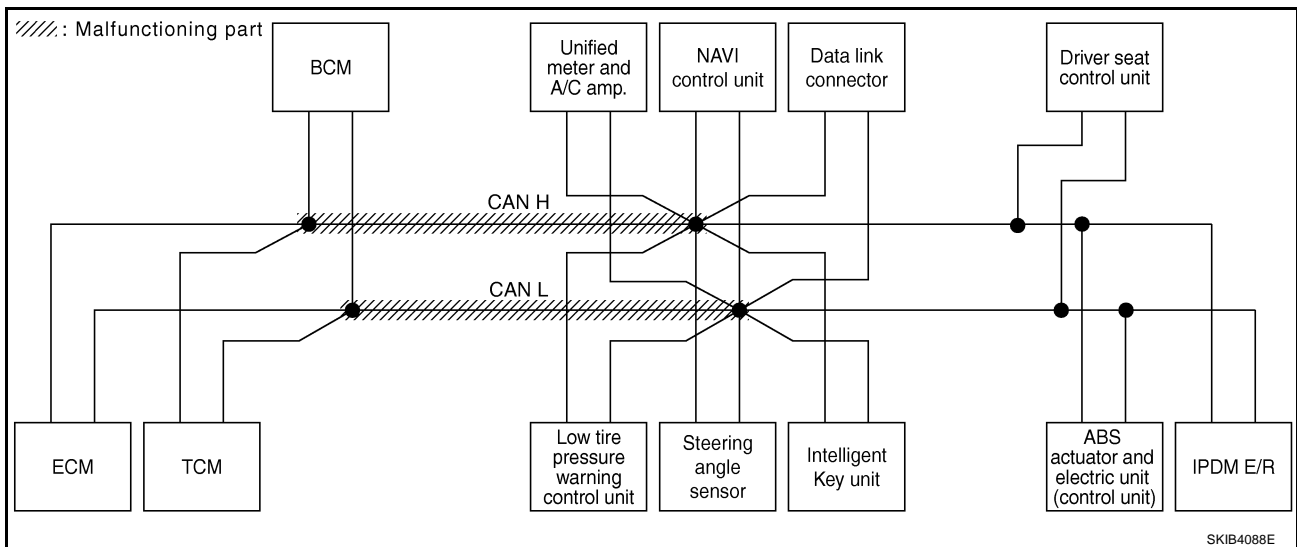
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-113, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8381E



SKIB4088E

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LAN

# CAN SYSTEM (TYPE 2)

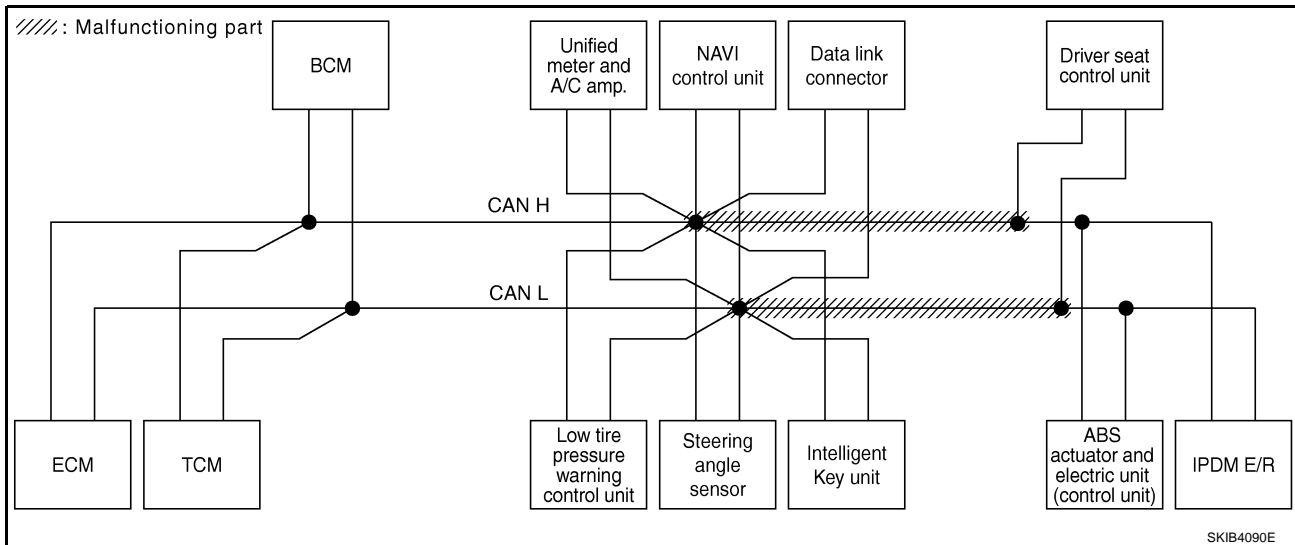
[CAN]

## Case 2

Check harness between data link connector and driver seat control unit. Refer to [LAN-114, "Inspection Between Data Link Connector and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R					
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	✓	✓	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8382E



SKIB4090E

# CAN SYSTEM (TYPE 2)

[CAN]

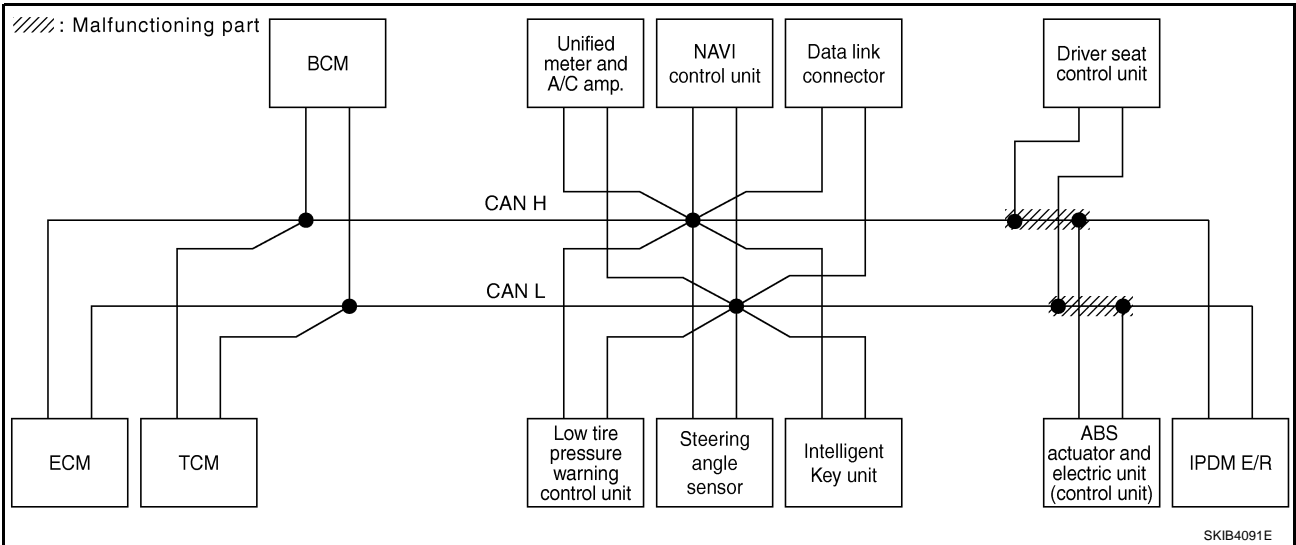
## Case 3

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-115, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

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J  
L  
M

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8383E



SKIB4091E

LAN

# CAN SYSTEM (TYPE 2)

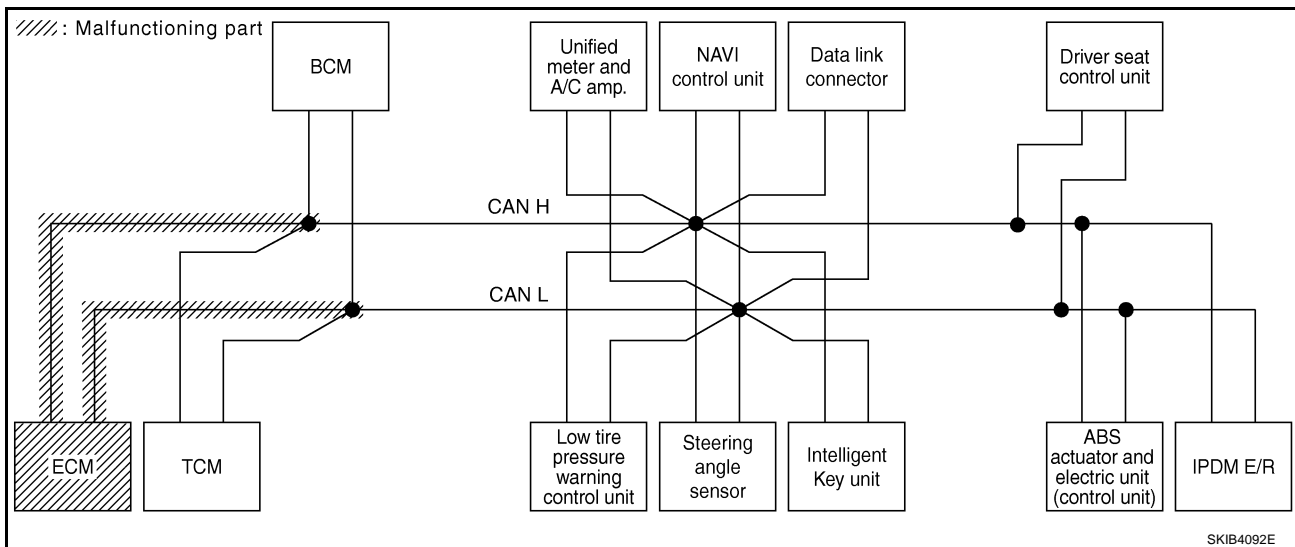
[CAN]

## Case 4

Check ECM circuit. Refer to [LAN-116, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM. CIRCUIT (U00)	CAN COMM. CIRCUIT (U01)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM. CIRCUIT (U00)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM. CIRCUIT (U00)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM. CIRCUIT (U00)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM. CIRCUIT (U00)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM. CIRCUIT (U00)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM. CIRCUIT (U00)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM. CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM. CIRCUIT (U00)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM. CIRCUIT (U00)	—

PKIB8384E



SKIB4092E



# CAN SYSTEM (TYPE 2)

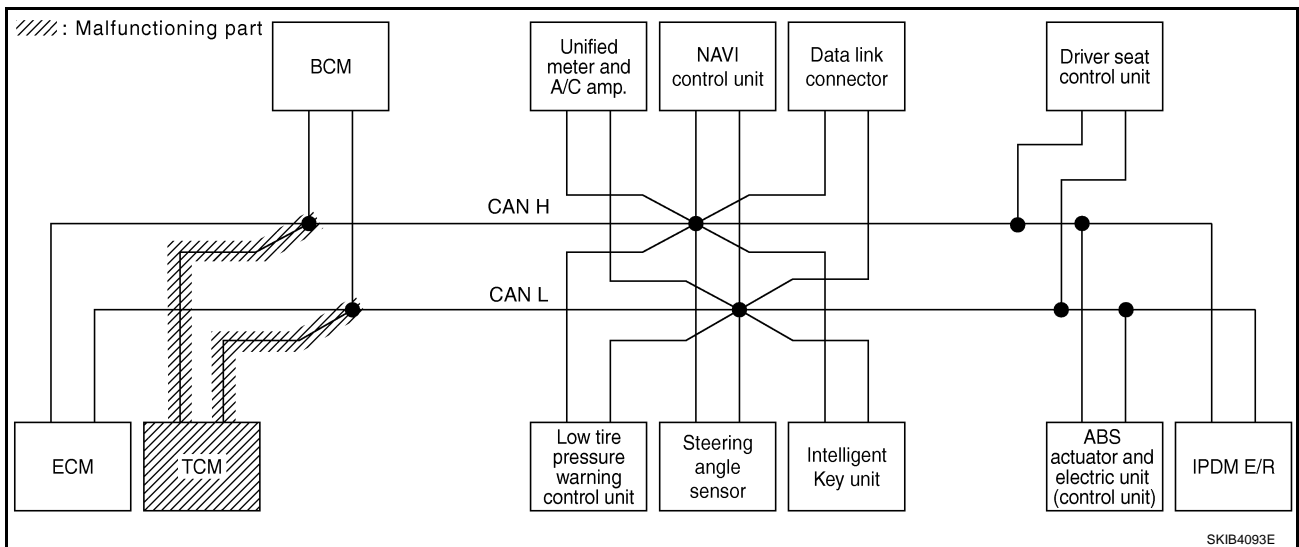
[CAN]

## Case 5

Check TCM circuit. Refer to [LAN-116, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS					
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R						
ENGINE	—	—	UNKWN	—	✓	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	✓	CAN COMM CIRCUIT (U101)	✓
A/T	—	NG	UNKWN	✓	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	✓	—	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	—	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	—	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	✓	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	✓	—	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	✓	—	—	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	—	—	—
AUTO DRIVE POS.	No indication	NG	—	—	✓	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	✓	—	—	—
ABS	—	NG	UNKWN	UNKWN	✓	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	✓	—	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	—	—	—

PKIB8385E



# CAN SYSTEM (TYPE 2)

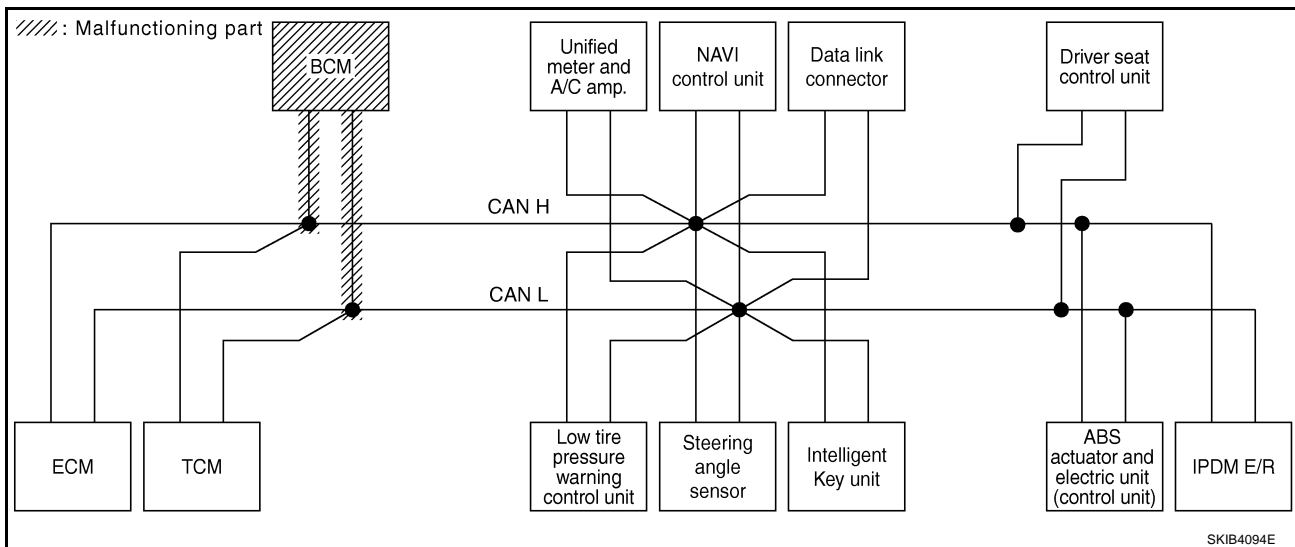
[CAN]

## Case 6

Check BCM circuit. Refer to [LAN-117, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8386E



SKIB4094E

# CAN SYSTEM (TYPE 2)

[CAN]

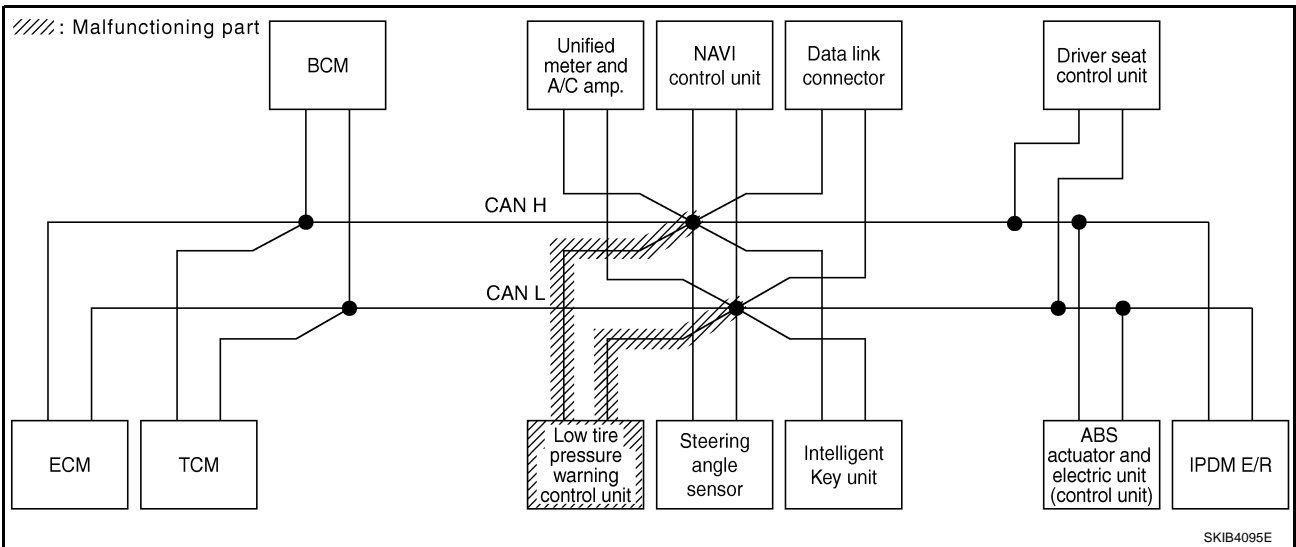
## Case 7

Check low tire pressure warning control unit circuit. Refer to [LAN-117, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

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B  
C  
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SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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SKIB4095E

LAN

# CAN SYSTEM (TYPE 2)

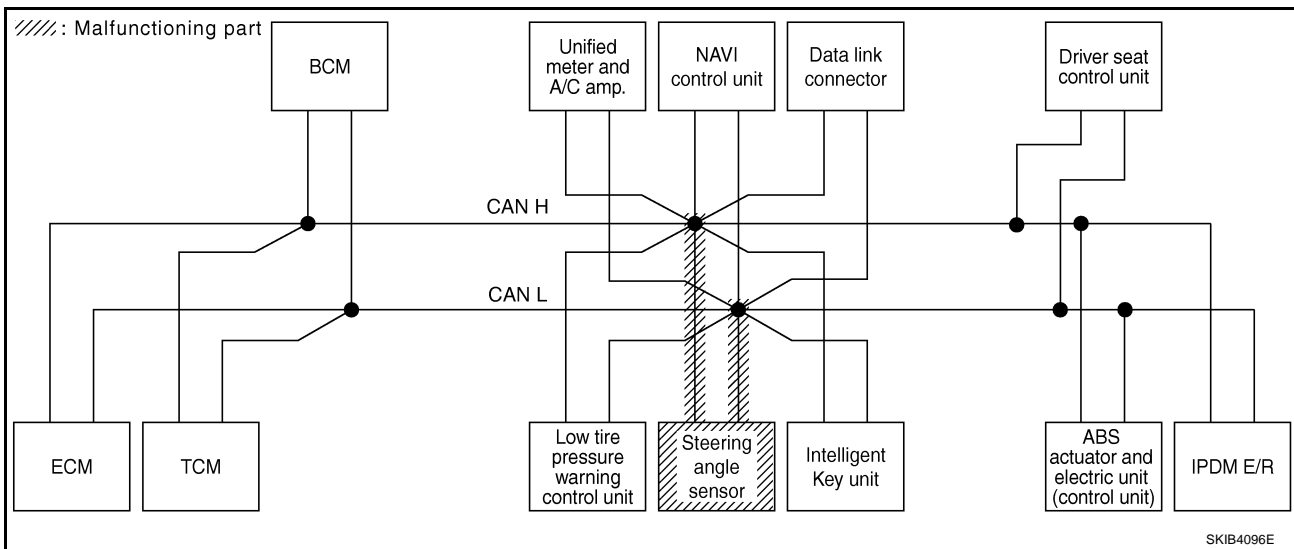
[CAN]

## Case 8

Check steering angle sensor circuit. Refer to [LAN-118, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8388E



SKIB4096E

# CAN SYSTEM (TYPE 2)

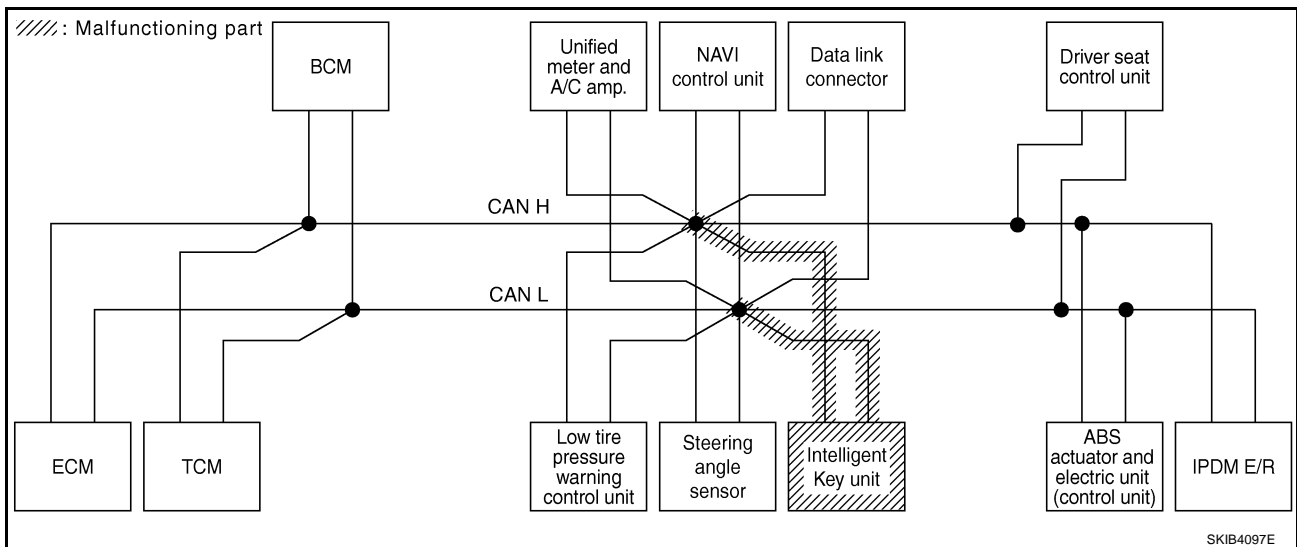
[CAN]

## Case 9

Check Intelligent Key unit circuit. Refer to [LAN-118, "Intelligent Key Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	✓	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	✓	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8389E



SKIB4097E

# CAN SYSTEM (TYPE 2)

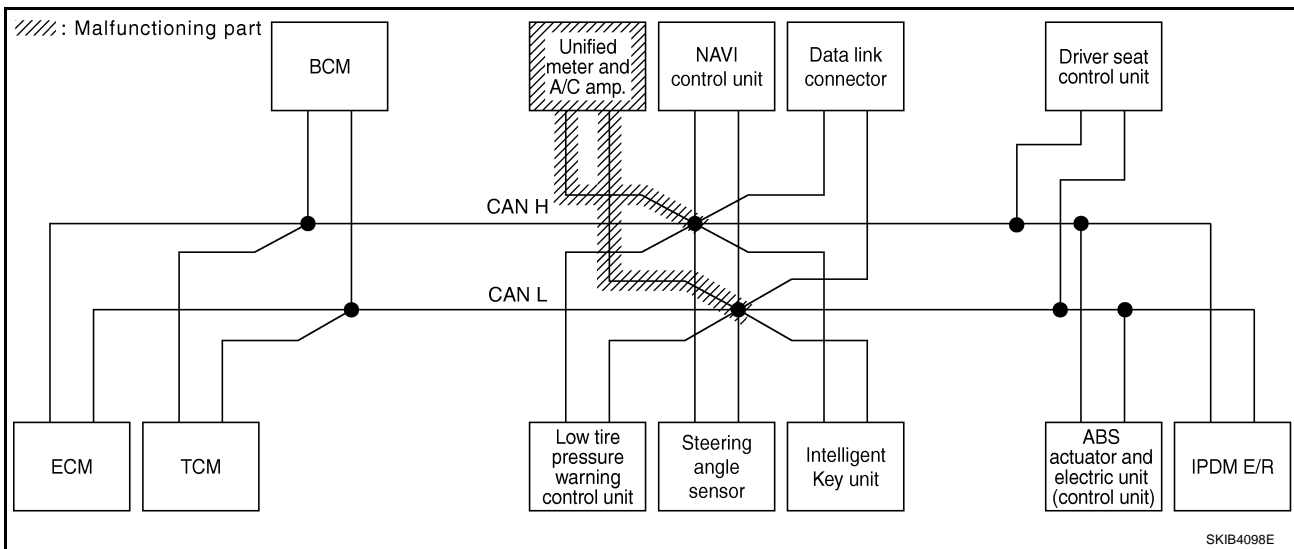
[CAN]

## Case 10

Check unified meter and A/C amp. circuit. Refer to [LAN-119, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	✓ No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8390E



SKIB4098E

# CAN SYSTEM (TYPE 2)

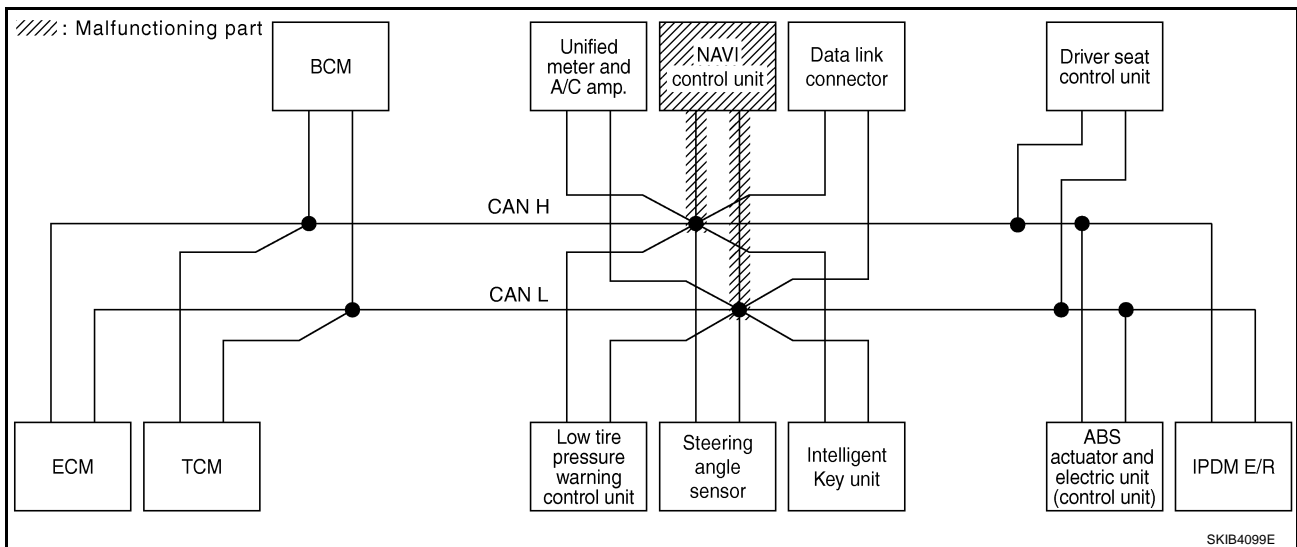
[CAN]

## Case 11

Check NAVI control unit circuit. Refer to [LAN-119, "NAVI Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	✓	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	✓	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8391E



# CAN SYSTEM (TYPE 2)

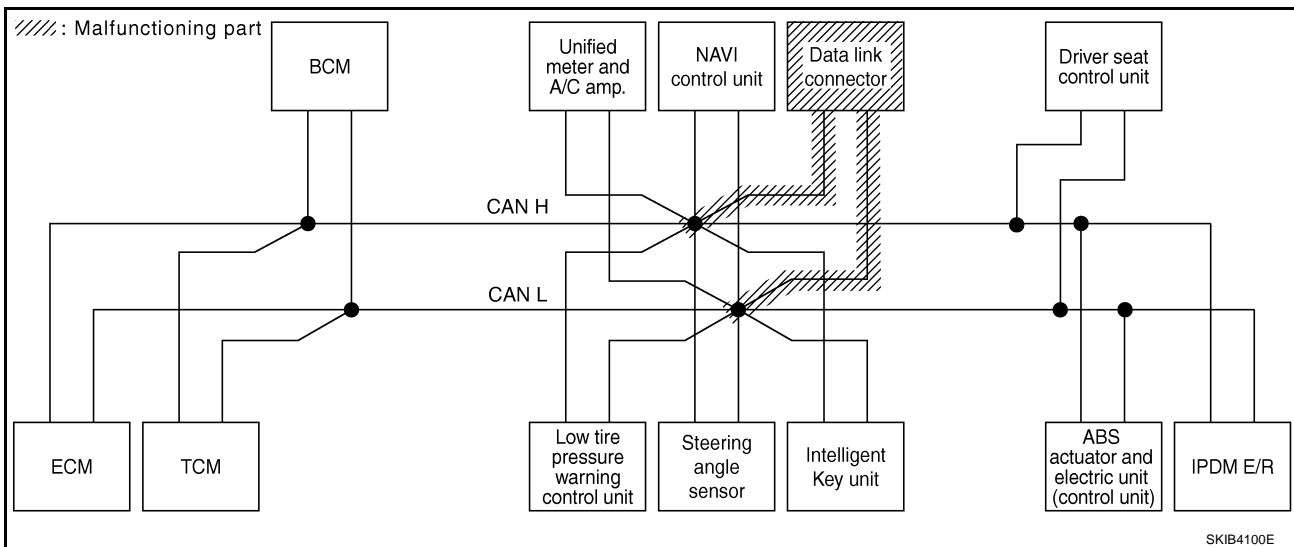
[CAN]

## Case 12

Check data link connector circuit. Refer to [LAN-120, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8392E



SKIB4100E



# CAN SYSTEM (TYPE 2)

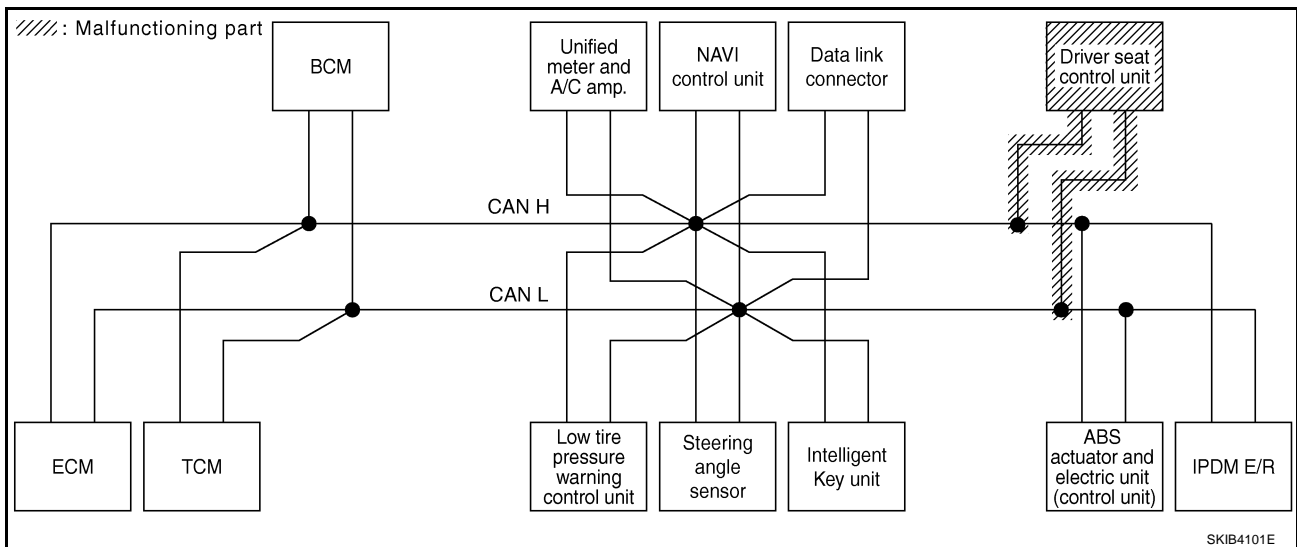
[CAN]

## Case 13

Check driver seat control unit circuit. Refer to [LAN-120, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8393E



# CAN SYSTEM (TYPE 2)

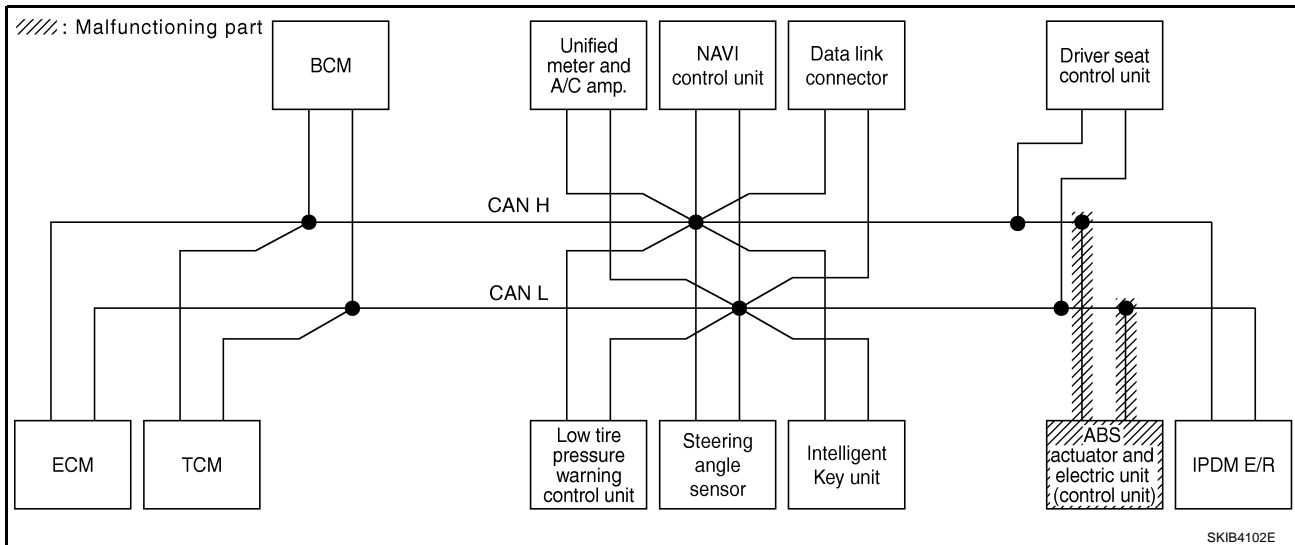
[CAN]

## Case 14

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-121, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8394E



SKIB4102E

# CAN SYSTEM (TYPE 2)

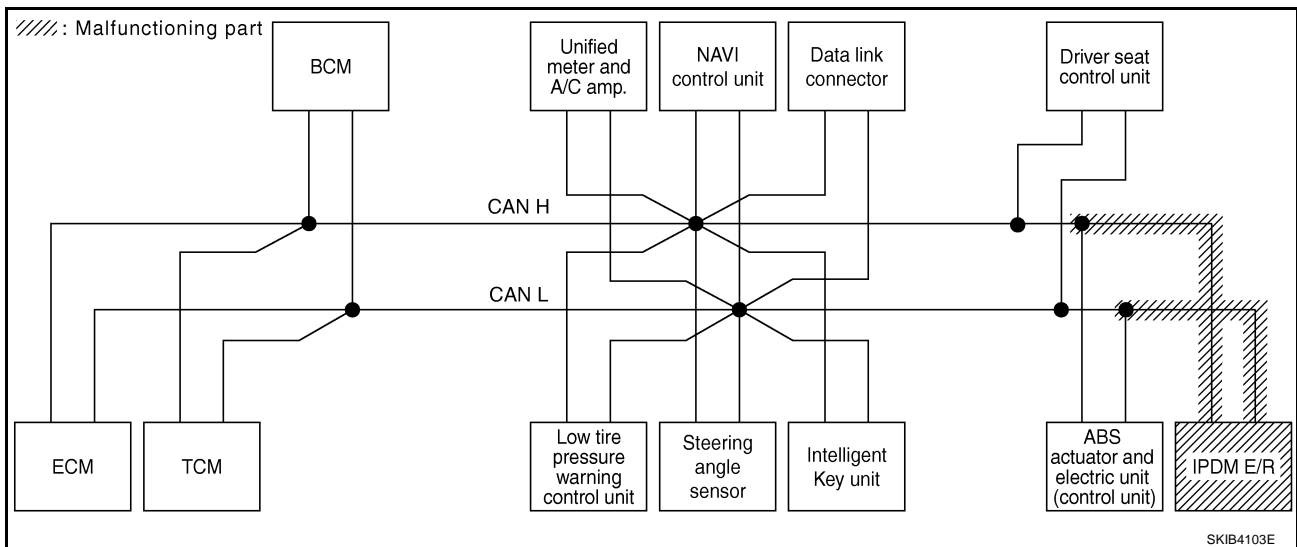
[CAN]

## Case 15

Check IPDM E/R circuit. Refer to [LAN-121, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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# CAN SYSTEM (TYPE 2)

[CAN]

## Case 16

Check CAN communication circuit. Refer to [LAN-122, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	—	UNKW	—	✓	✓	—	—	—	—	✓	—	✓	✓	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	✓	—	—	—	—	—	—	✓	—	✓	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	UNKW	UNKW	—	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	✓	✓	✓	✓	—	—	✓	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8396E

## Case 17

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-129, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	—	UNKW	—	✓	UNKW	—	—	—	—	UNKW	—	✓	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	✓	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	✓	UNKW	—	—	—	UNKW	—	✓	UNKW	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	✓	UNKW	UNKW	—	UNKW	—	UNKW	✓	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	UNKW	UNKW	—	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	✓	UNKW	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8397E

## Case 18

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-129, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												
			ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKW	—	UNKW	UNKW	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	—	—	—	—	—	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	UNKW	UNKW	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	—	UNKW	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8398E

## Inspection Between TCM and Data Link Connector Circuit

NKS003YM

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

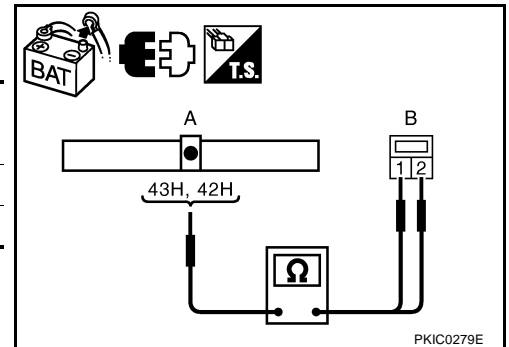
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.  
 NG >> Repair harness.



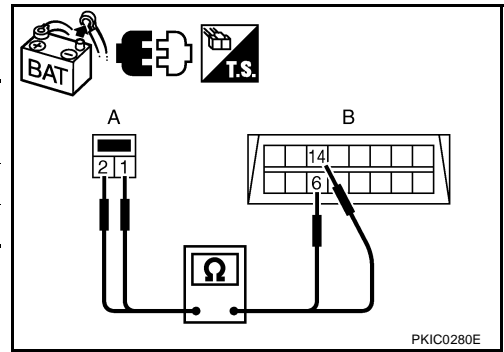
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and Driver Seat Control Unit Circuit

NKS003YN

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

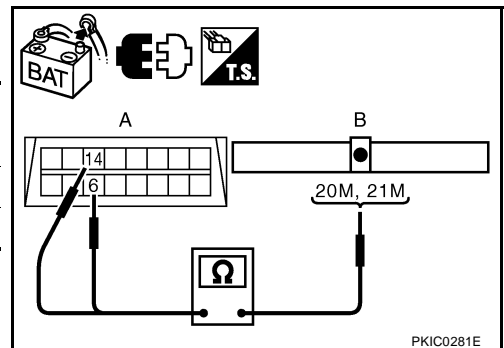
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



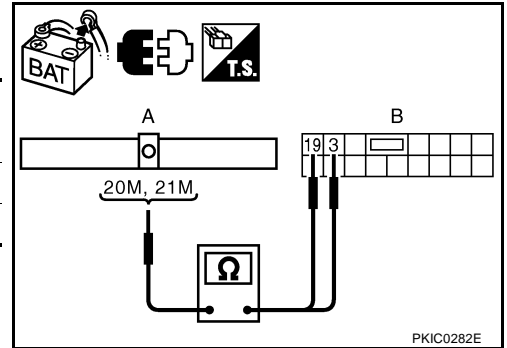
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B15	3	Yes
	21M		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9. "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS003YO

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

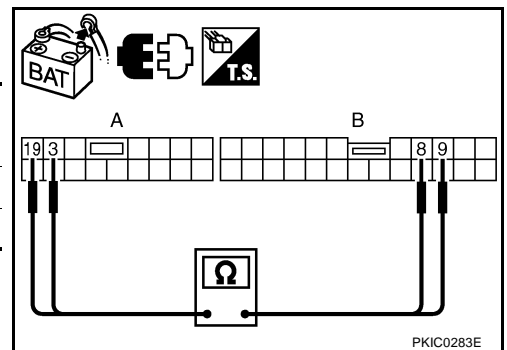
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

- OK >> GO TO 3.
- NG >> Repair harness.



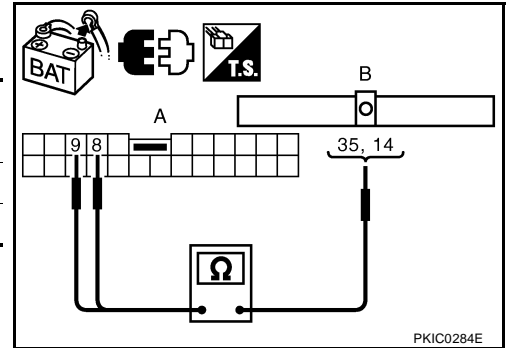
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LAN

### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.

### ECM Circuit Inspection

NKS003YP

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

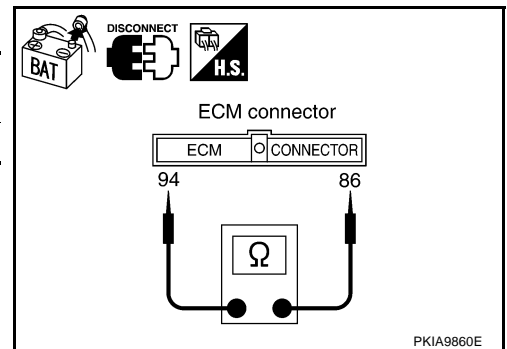
**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω



**OK or NG**

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.

### TCM Circuit Inspection

NKS003YQ

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.



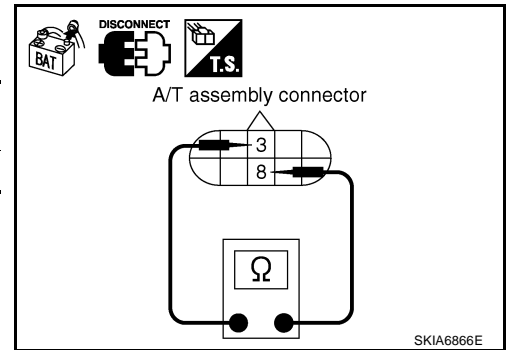
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.
- NG >> Repair harness between A/T assembly and BCM.



## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

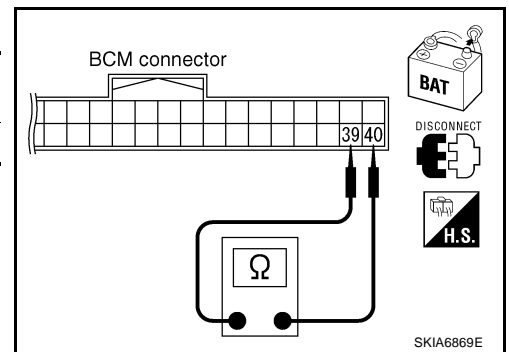
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

**OK or NG**

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

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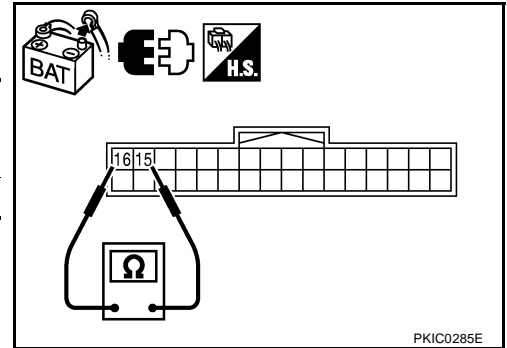
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
	15	16	
M19	15	16	54 – 66 Ω

### OK or NG

- OK >> Replace low tire pressure warning control unit.  
 NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS003YT

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

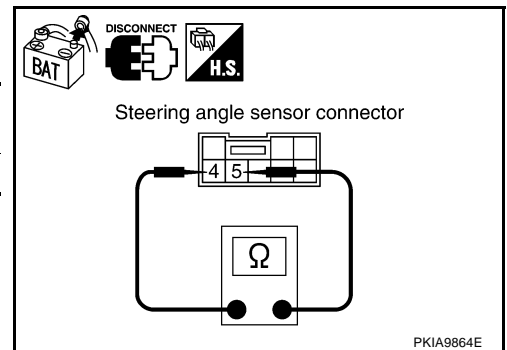
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
	4	5	
M47	4	5	54 – 66 Ω

### OK or NG

- OK >> Replace steering angle sensor.  
 NG >> Repair harness between steering angle sensor and data link connector.



## Intelligent Key Unit Circuit Inspection

NKS003YU

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

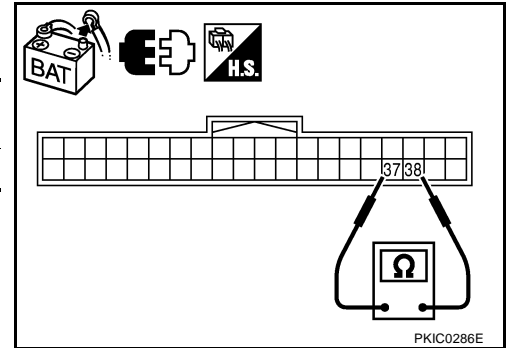
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
	38	37	
M32	38	37	54 – 66 Ω

### OK or NG

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS003YV

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

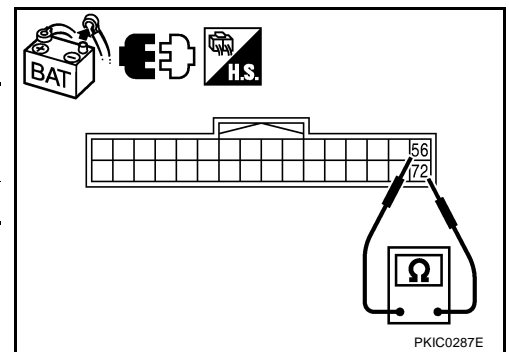
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
	56	72	
M65	56	72	54 – 66 Ω

### OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS003YV

## NAVI Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - NAVI control unit connector
  - Harness connector M216
  - Harness connector M53

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

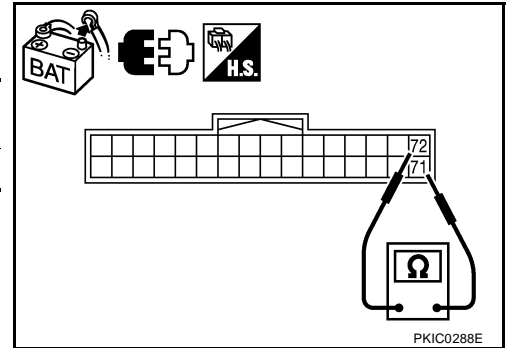
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check resistance between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

**OK or NG**

- OK >> Replace NAVI control unit.
- NG >> Repair harness between NAVI control unit and data link connector.



## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

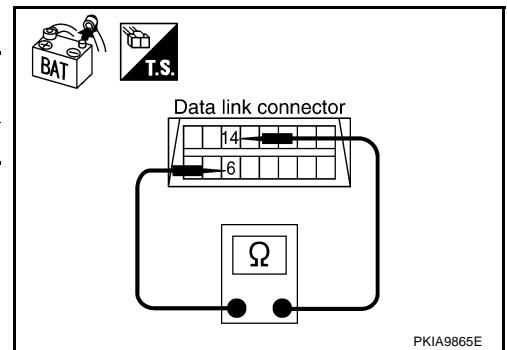
### 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

**OK or NG**

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

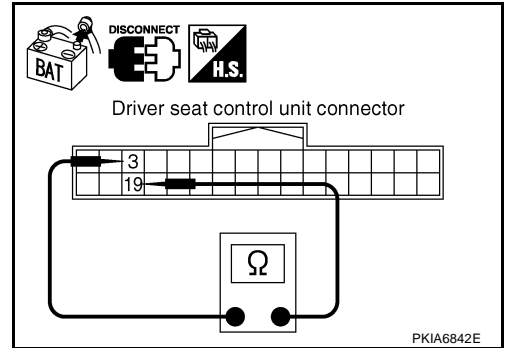
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

**OK or NG**

- OK >> Replace driver seat control unit.  
 NG >> Repair harness between driver seat control unit and harness connector B3.



**ABS Actuator and Electric Unit (Control Unit) Circuit Inspection**

NKS003YZ

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

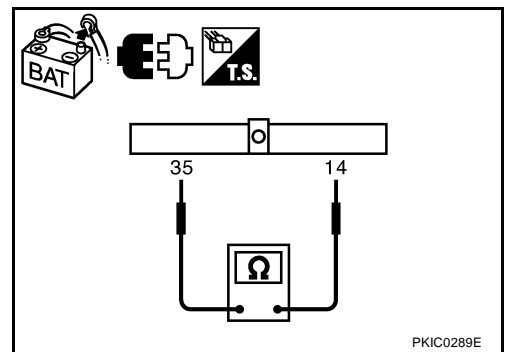
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

**OK or NG**

- OK >> Replace ABS actuator and electric unit (control unit).  
 NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



**IPDM E/R Circuit Inspection**

NKS003Z0

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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## 2. CHECK HARNESS FOR OPEN CIRCUIT

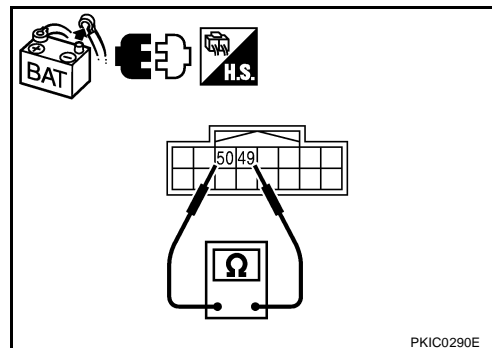
1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

### OK or NG

OK >> Replace IPDM E/R.

NG >> Repair harness between IPDM E/R and harness connector E105.



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## CAN Communication Circuit Inspection

NKS003Z1

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
  - Between ECM and A/T assembly
  - Between ECM and NAVI control unit
  - Between ECM and driver seat control unit
  - Between ECM and IPDM E/R

### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

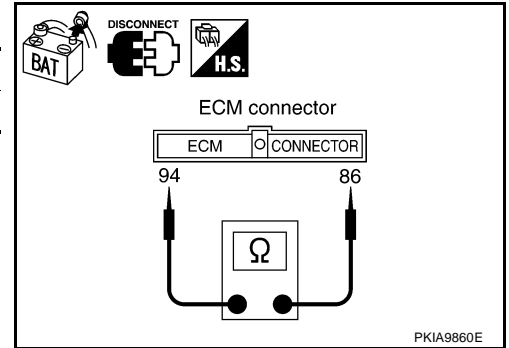
## 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



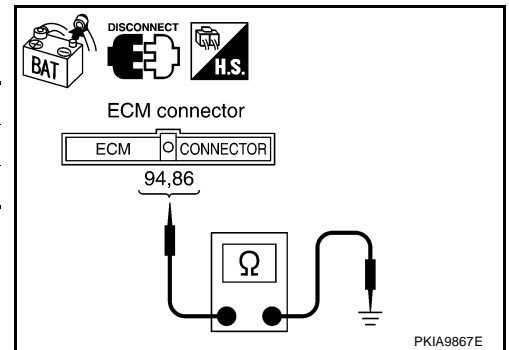
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		No
	86	No	

**OK or NG**

- OK >> GO TO 4.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



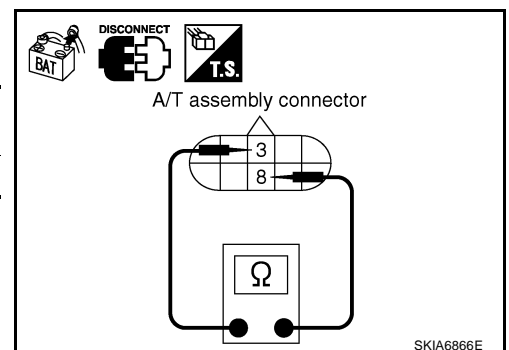
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.  
 NG >> Repair harness between A/T assembly and harness connector F102.



## 5. CHECK HARNESS FOR SHORT CIRCUIT

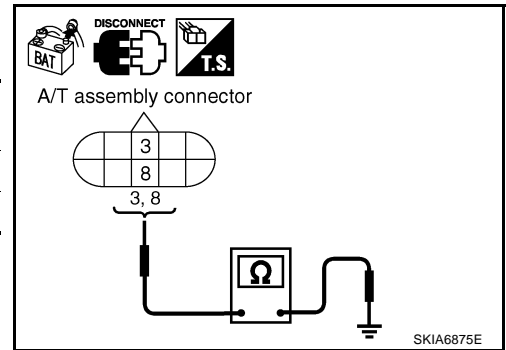
Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

**OK or NG**

OK >> GO TO 6.

NG >> Repair harness between A/T assembly and harness connector F102.



## 6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

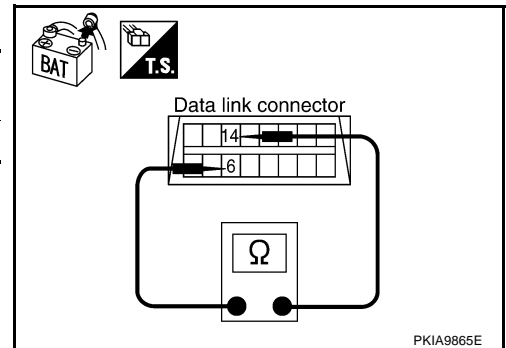
Data link connector	Terminal		Continuity
M60	6	14	No

**OK or NG**

OK >> GO TO 7.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13





## 7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

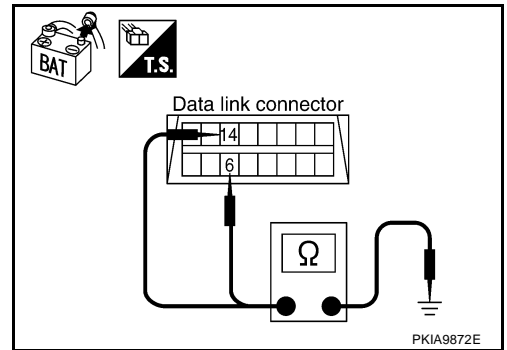
Data link connector	Terminal	Ground	Continuity
M60	6		
	14	No	

**OK or NG**

OK >> GO TO 8.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



## 8. CHECK HARNESS FOR SHORT CIRCUIT

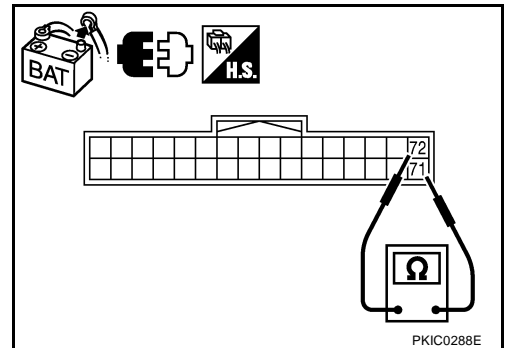
1. Disconnect NAVI control unit connector.
2. Check continuity between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal	Terminal	Continuity
M210	71	72	No

**OK or NG**

OK >> GO TO 9.

NG >> Repair harness between NAVI control unit and harness connector M216.



## 9. CHECK HARNESS FOR SHORT CIRCUIT

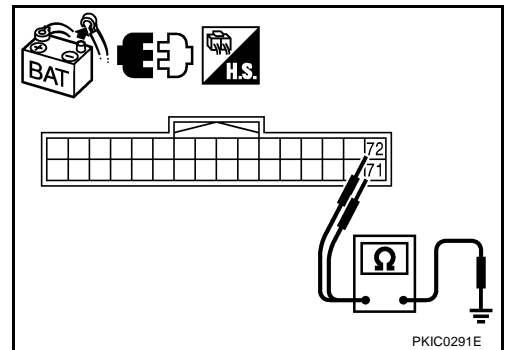
Check continuity between NAVI control unit harness connector terminals and ground.

NAVI control unit connector	Terminal	Ground	Continuity
M210	71		
	72	No	

**OK or NG**

OK >> GO TO 10.

NG >> Repair harness between NAVI control unit and harness connector M216.



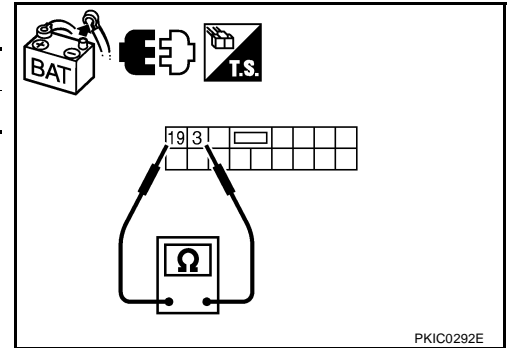
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between harness connector B15 and harness connector B2
  - Harness between harness connector B15 and harness connector B3



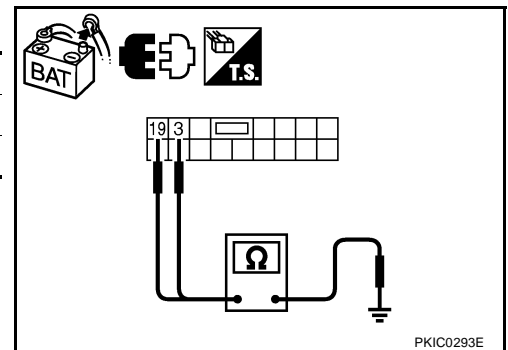
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		
	19		No

**OK or NG**

- OK >> GO TO 12.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between harness connector B15 and harness connector B2
  - Harness between harness connector B15 and harness connector B3



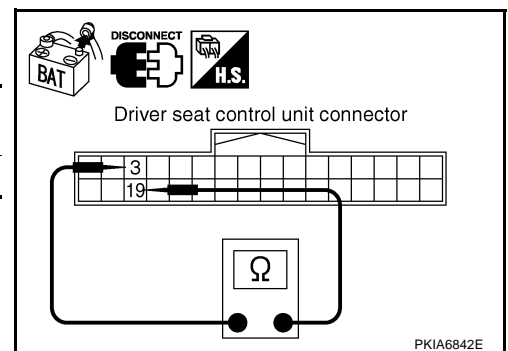
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Continuity
B204	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Repair harness between driver seat control unit and harness connector B202.



## 13. CHECK HARNESS FOR SHORT CIRCUIT

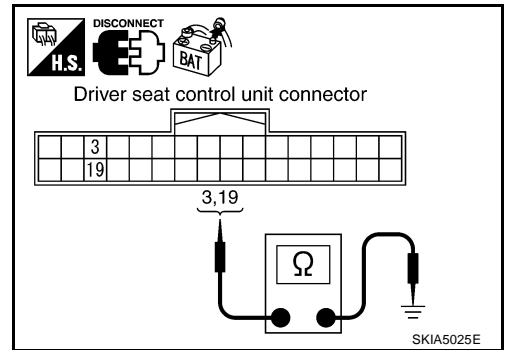
Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

**OK or NG**

OK >> GO TO 14.

NG >> Repair harness between driver seat control unit and harness connector B202.



## 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

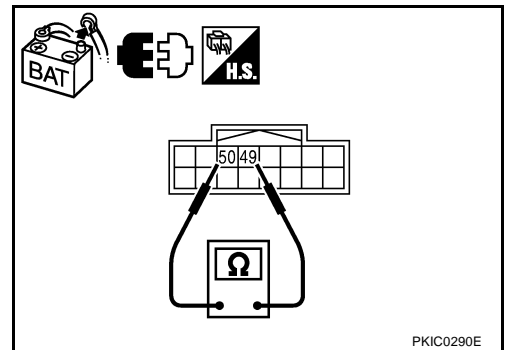
IPDM E/R connector	Terminal	Continuity
E9	49 50	No

**OK or NG**

OK >> GO TO 15.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



## 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

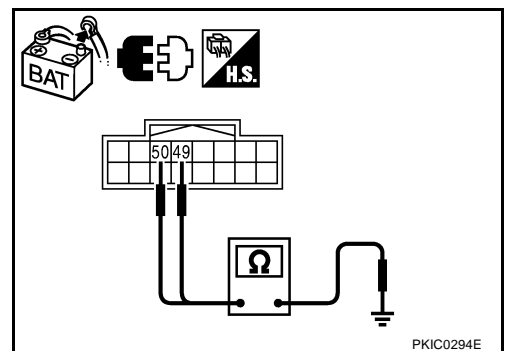
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		No
	50	No	

**OK or NG**

OK >> GO TO 16.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



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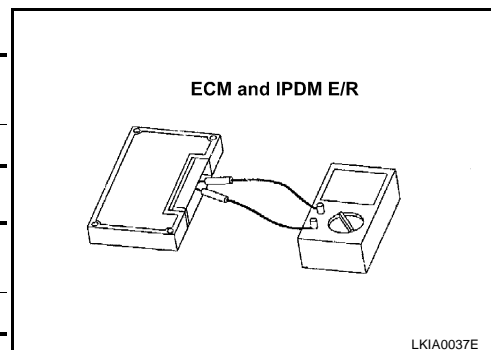
## 16. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω



### OK or NG

- OK >> GO TO 17.  
 NG >> Replace ECM and/or IPDM E/R.

## 17. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

- OK >> GO TO 18.  
 NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 18. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

- Reproduce>>Install removed unit, and then check the other unit.  
 Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

NKS003Z2

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START""](#) .

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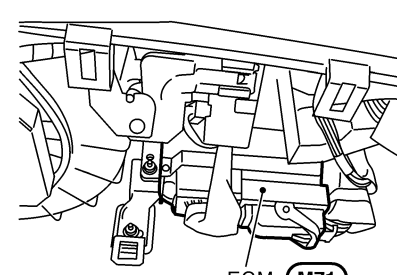
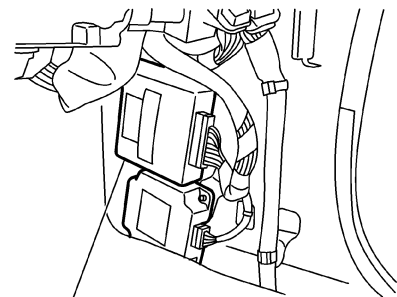
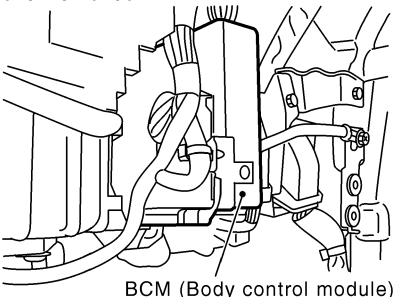
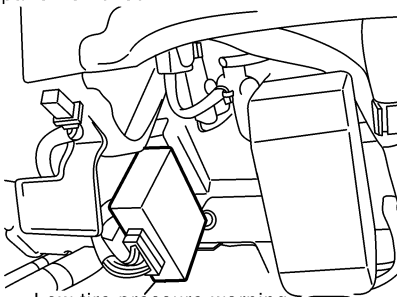
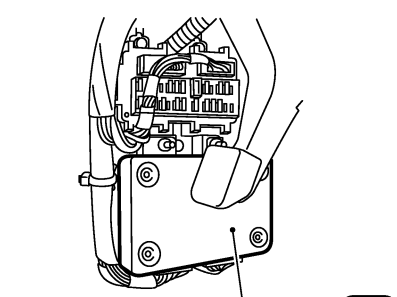
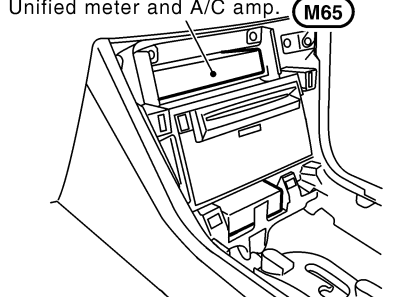
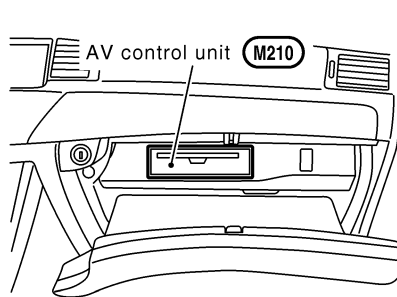
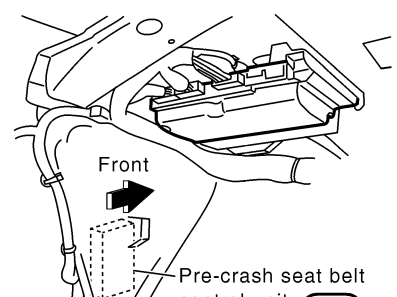
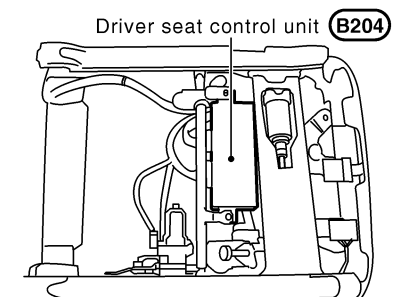
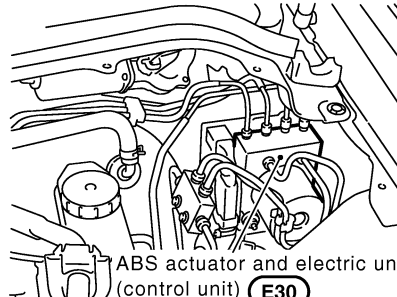
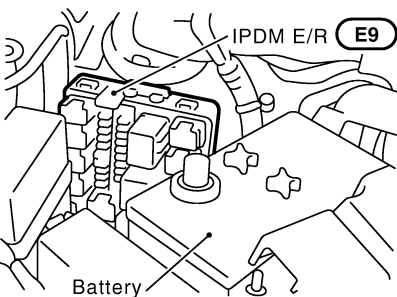
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## CAN SYSTEM (TYPE 3)

### Component Parts and Harness Connector Location

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>AV control unit (M210)</p>	<p>View with trunk side LH finisher and front finisher removed</p>  <p>Front</p> <p>Pre-crash seat belt control unit (B142)</p>	<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>
<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>	<p></p>

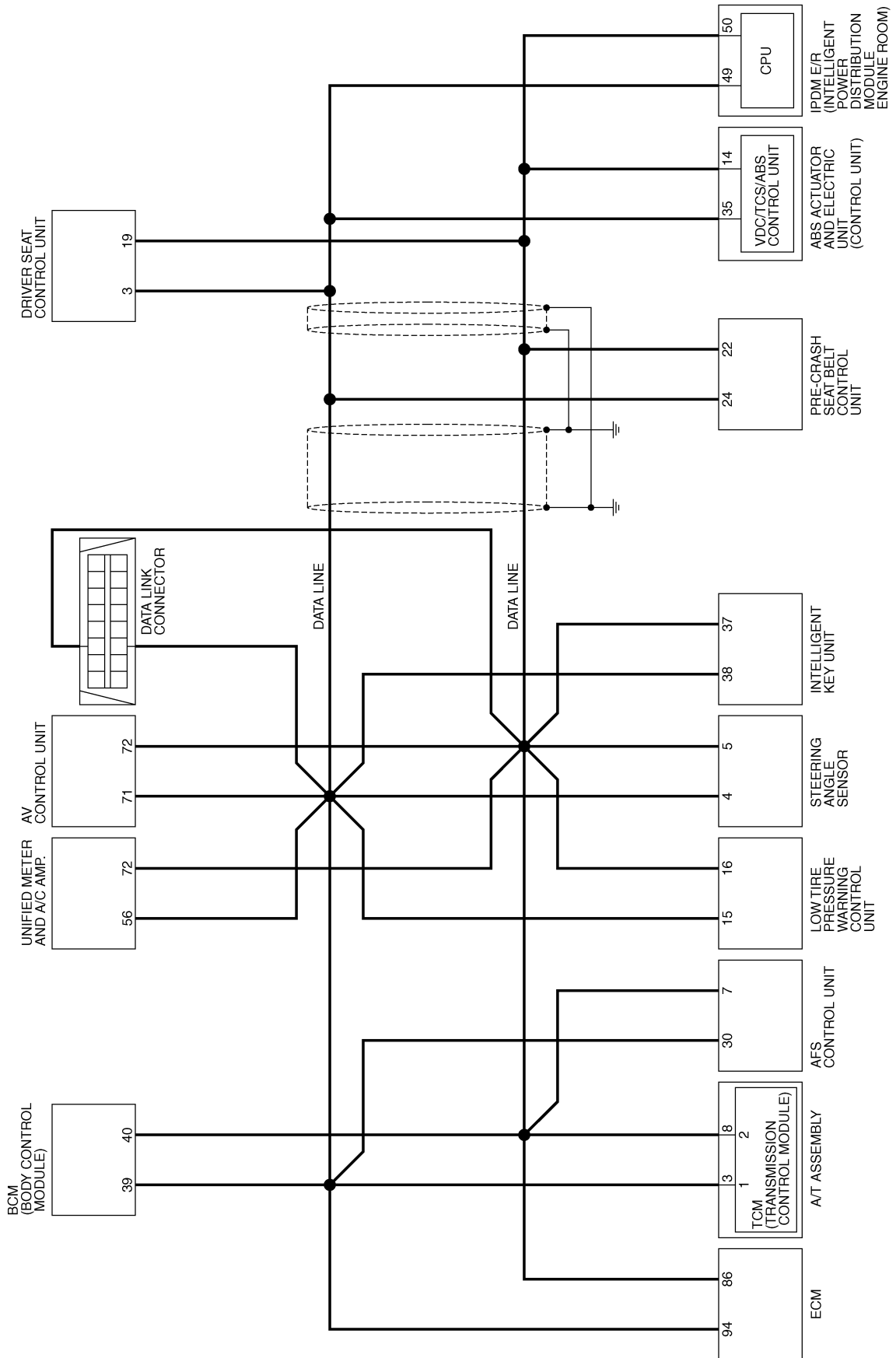
PKIC0601E

# CAN SYSTEM (TYPE 3)

[CAN]

## Schematic

NKS003Z4



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TKWTT3255E

# CAN SYSTEM (TYPE 3)

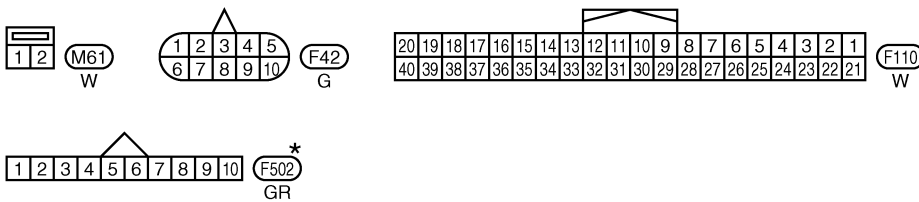
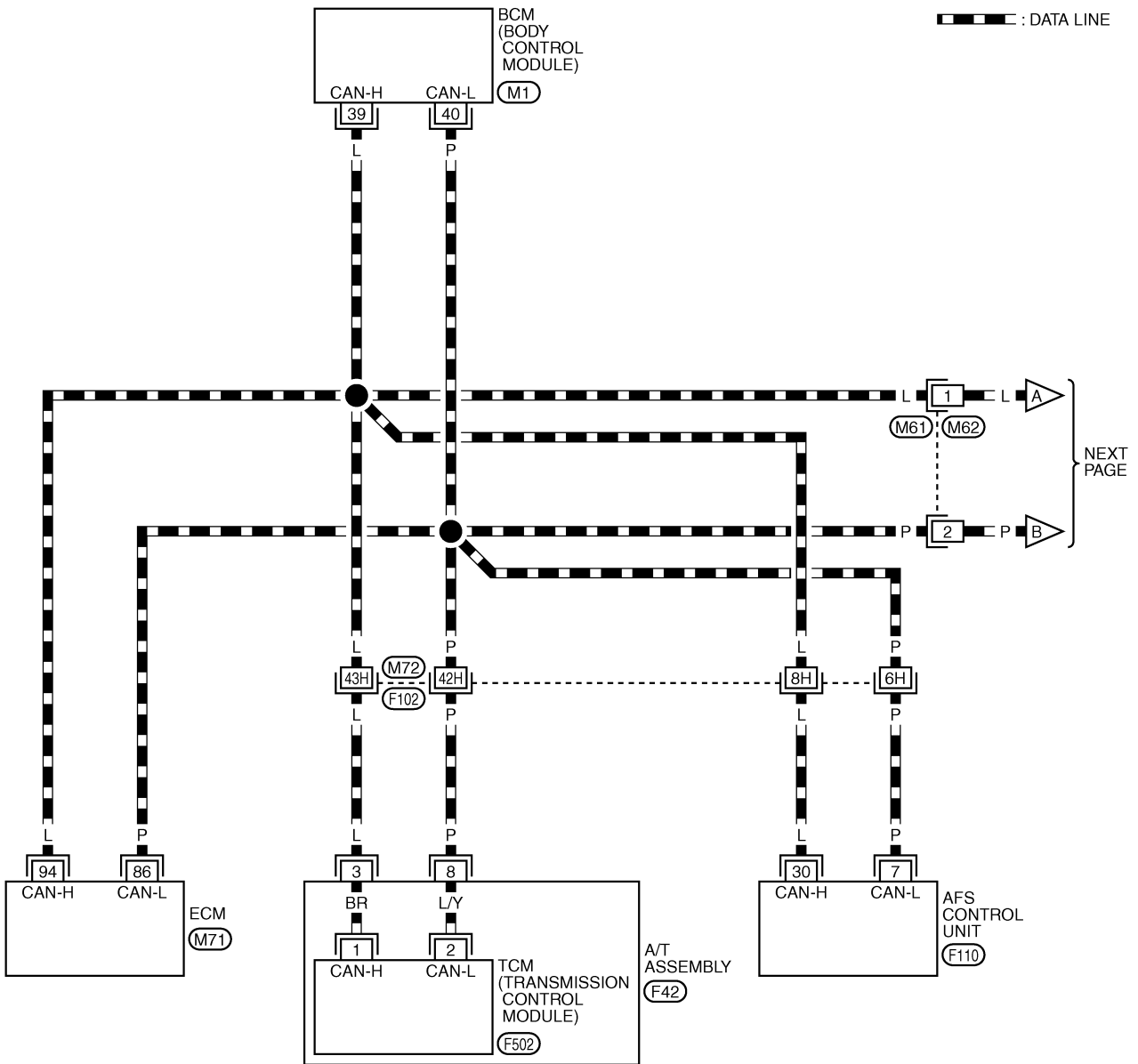
[CAN]

NKS003Z5

## Wiring Diagram — CAN —

### LAN-CAN-07

▬ : DATA LINE



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3256E

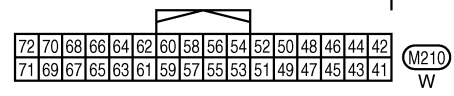
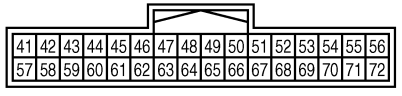
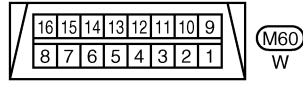
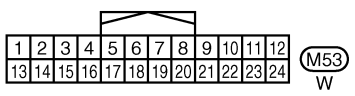
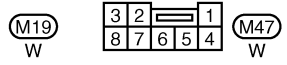
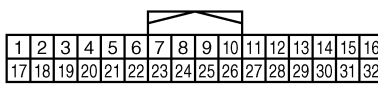
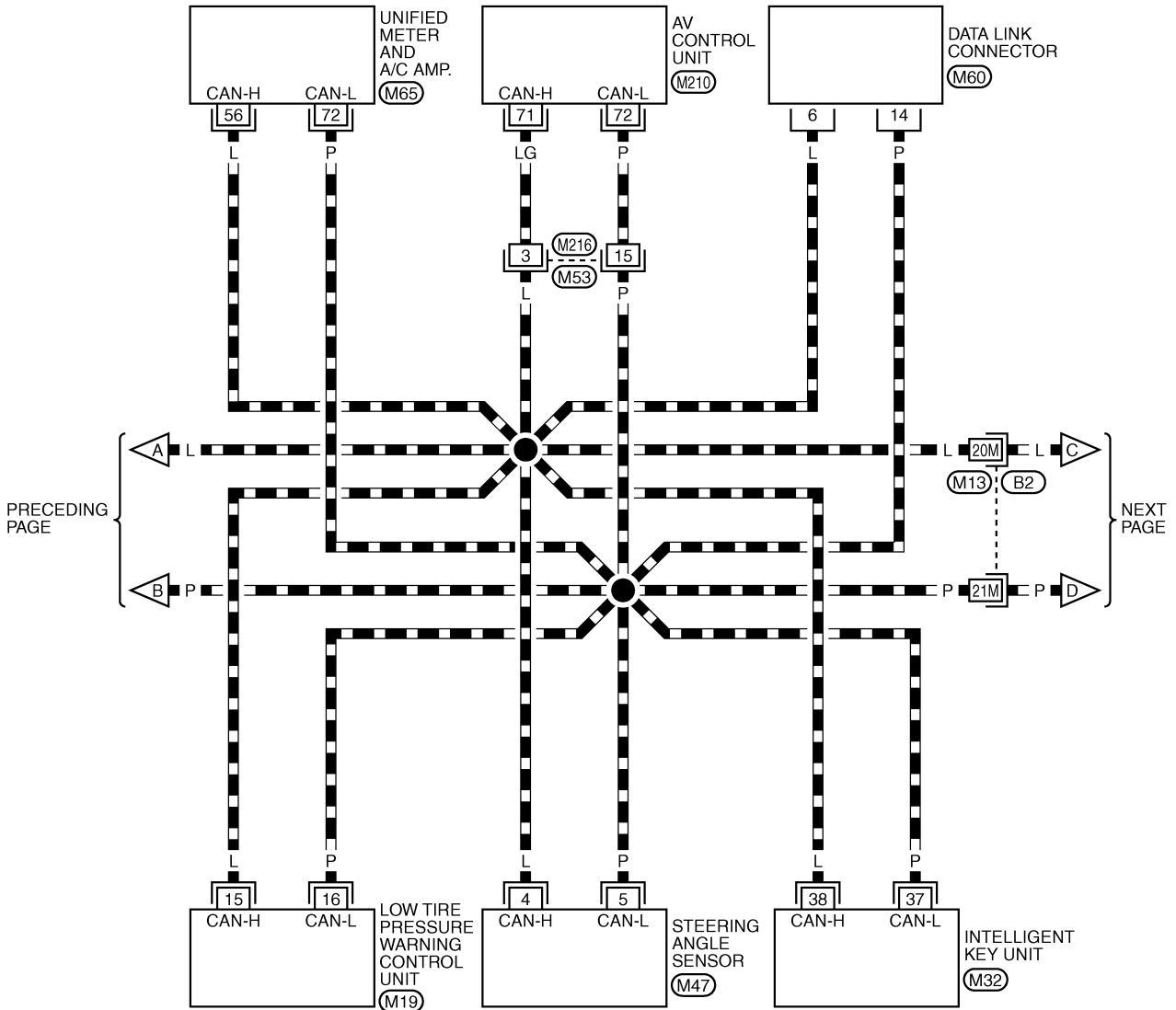


# CAN SYSTEM (TYPE 3)

[CAN]

## LAN-CAN-08

▬ : DATA LINE



REFER TO THE FOLLOWING.  
 (B2) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M32) -ELECTRICAL UNITS

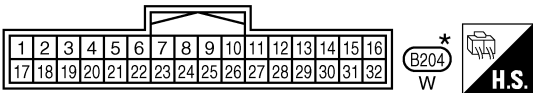
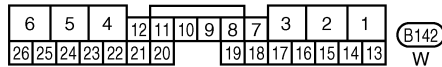
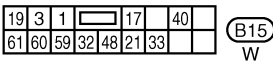
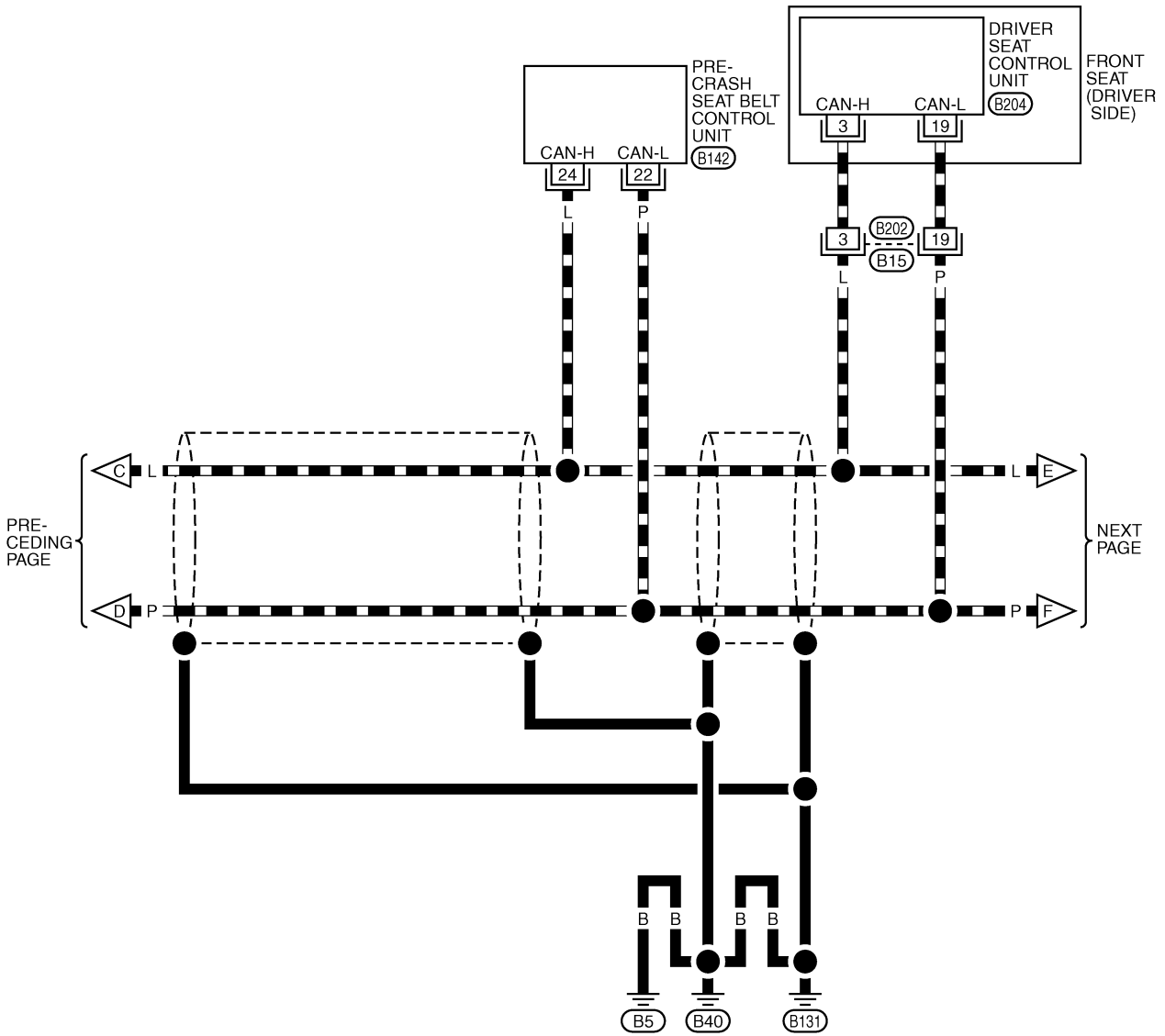
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# CAN SYSTEM (TYPE 3)

[CAN]

## LAN-CAN-09

▬ : DATA LINE



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3258E

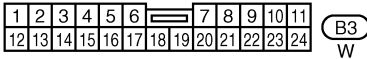
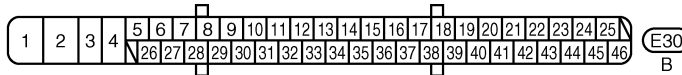
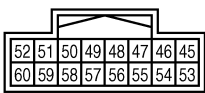
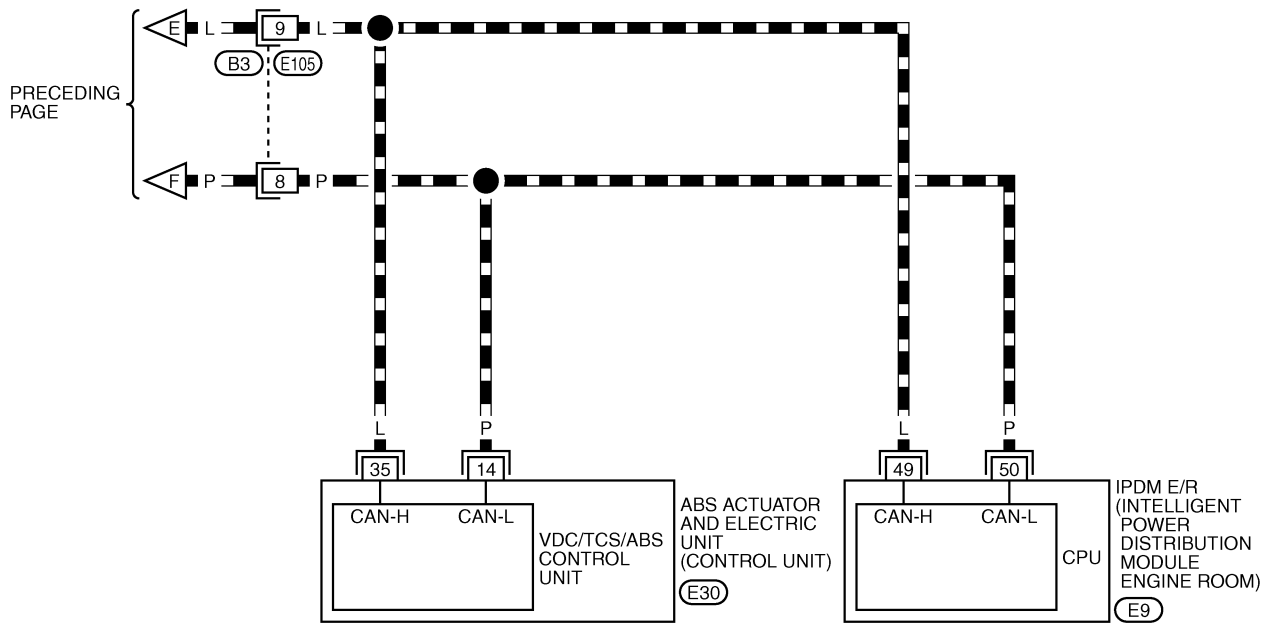
# CAN SYSTEM (TYPE 3)

[CAN]

LAN-CAN-10

▬ : DATA LINE

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TKWT3259E



# CAN SYSTEM (TYPE 3)

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Attach copy of  
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SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
PRECRASH SEATBELT  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

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ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9557E

# CAN SYSTEM (TYPE 3)

[CAN]

Attach copy of  
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ADAPTIVE LIGHT  
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AIR PRESSURE MONITOR  
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INTELLIGENT KEY  
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PKIB9558E

# CAN SYSTEM (TYPE 3)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

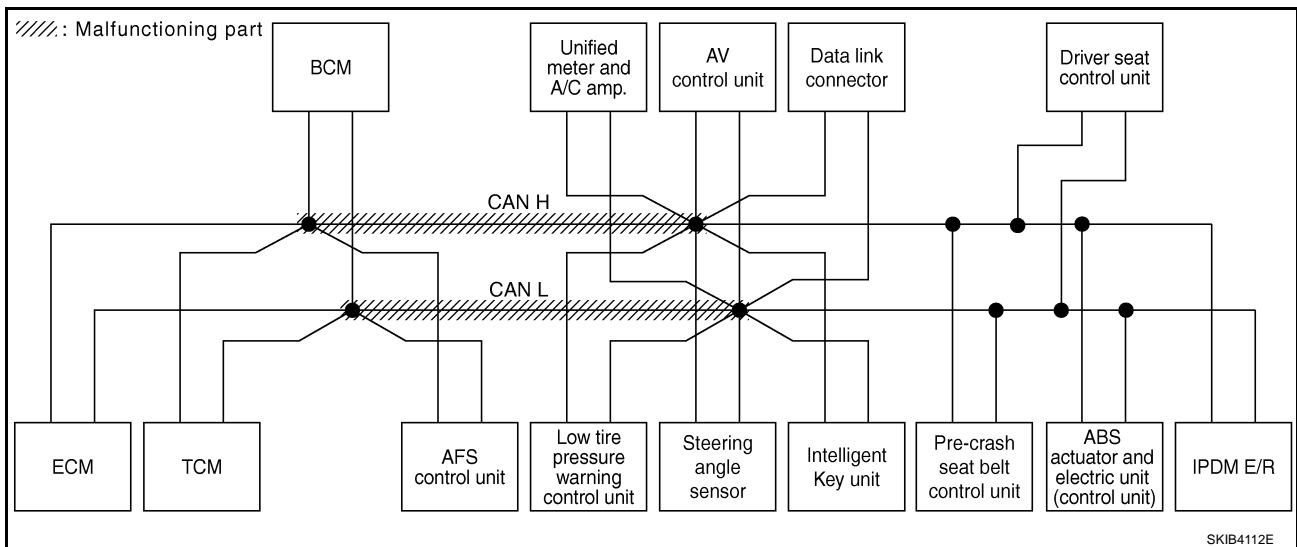
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-158, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS		
			Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8400E



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# CAN SYSTEM (TYPE 3)

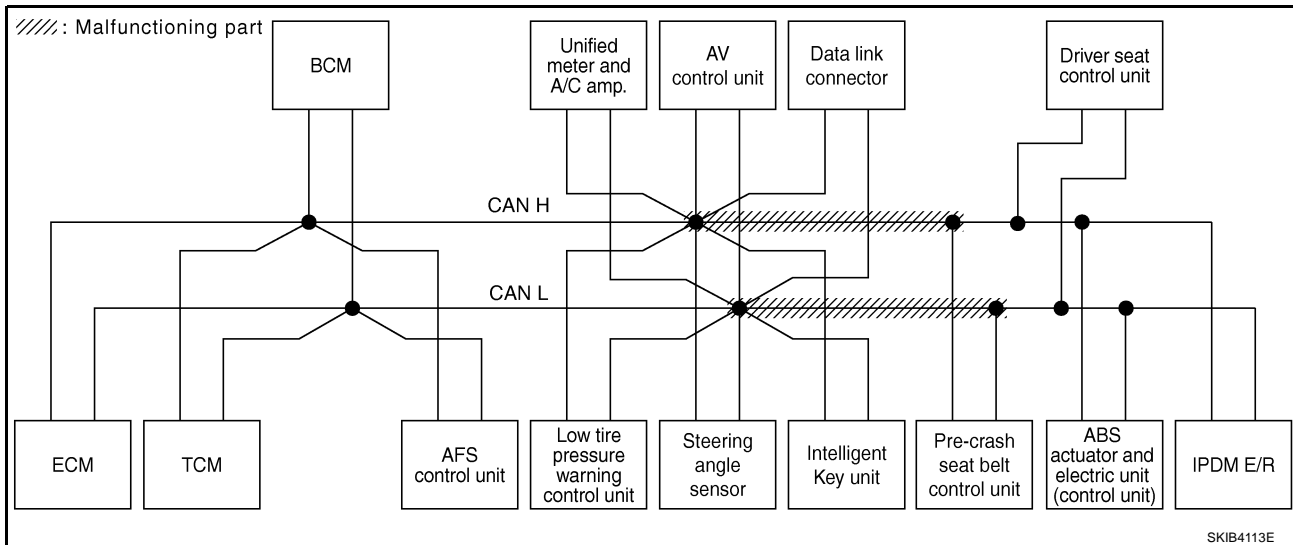
[CAN]

## Case 2

Check harness between data link connector and pre-crash seat belt control unit. Refer to [LAN-159, "Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS					
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)			
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS					IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	✓	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	✓	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	✓	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB401E











# CAN SYSTEM (TYPE 3)

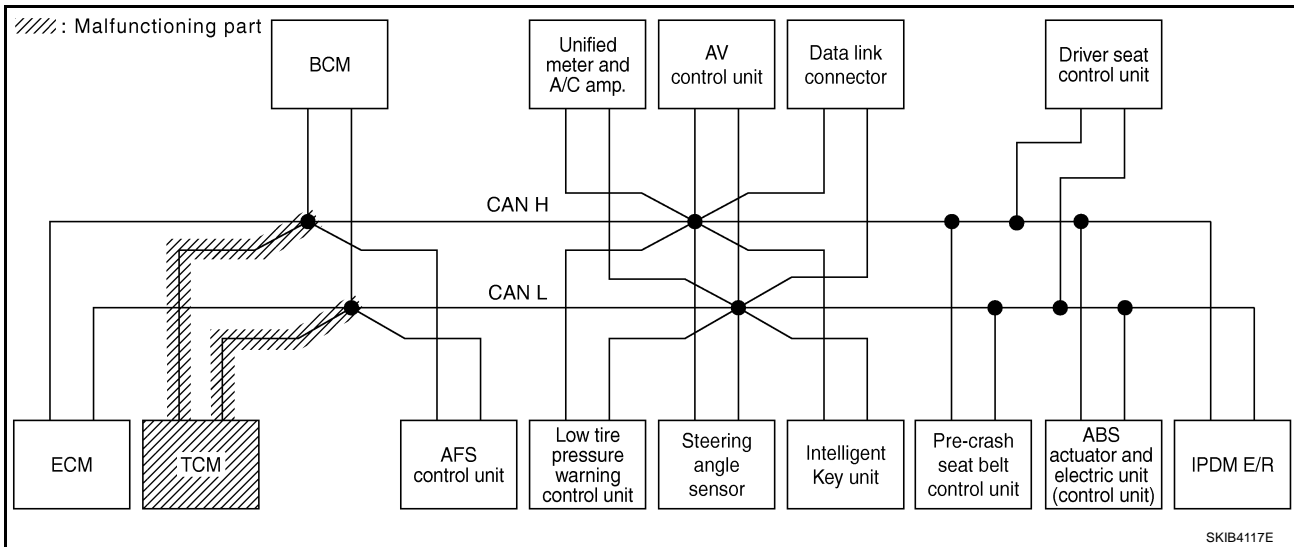
[CAN]

## Case 6

Check TCM circuit. Refer to [LAN-162, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN ✓	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100) ✓	CAN COMM CIRCUIT (U101) ✓
A/T	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	—	UNKWN ✓	—	UNKWN ✓	—	CAN COMM CIRCUIT (U100) ✓	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN ✓	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100) ✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100) ✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U100) ✓	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN ✓	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100) ✓	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN ✓	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100) ✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN ✓	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U100) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIB8405E



SKIB4117E

# CAN SYSTEM (TYPE 3)

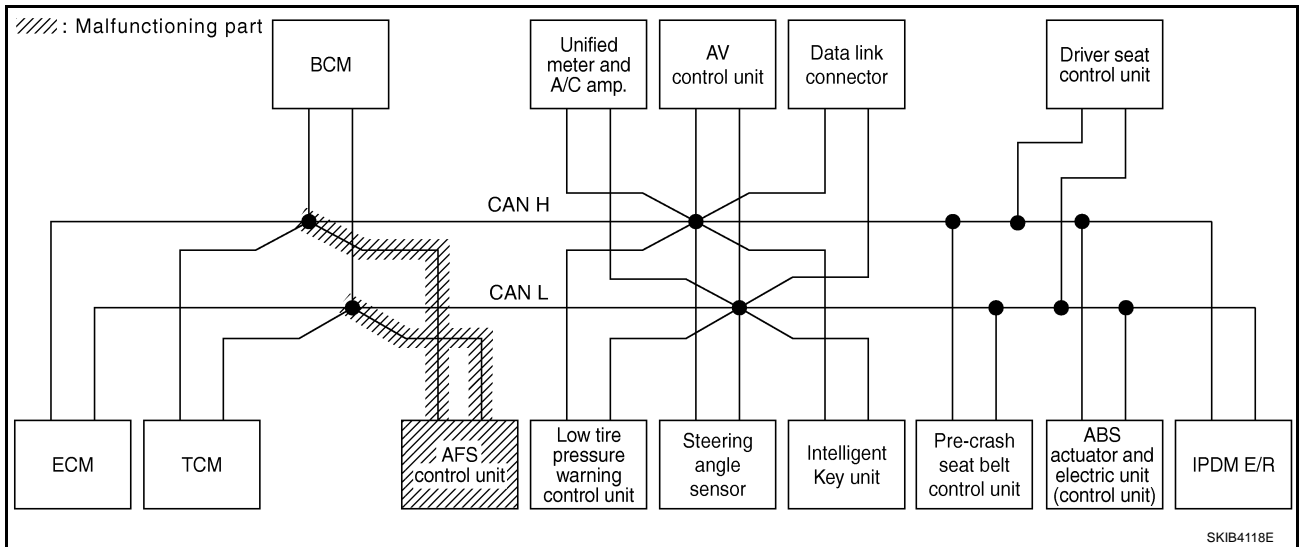
[CAN]

## Case 7

Check AFS control unit circuit. Refer to [LAN-162, "AFS Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8406E



SKIB4118E

# CAN SYSTEM (TYPE 3)

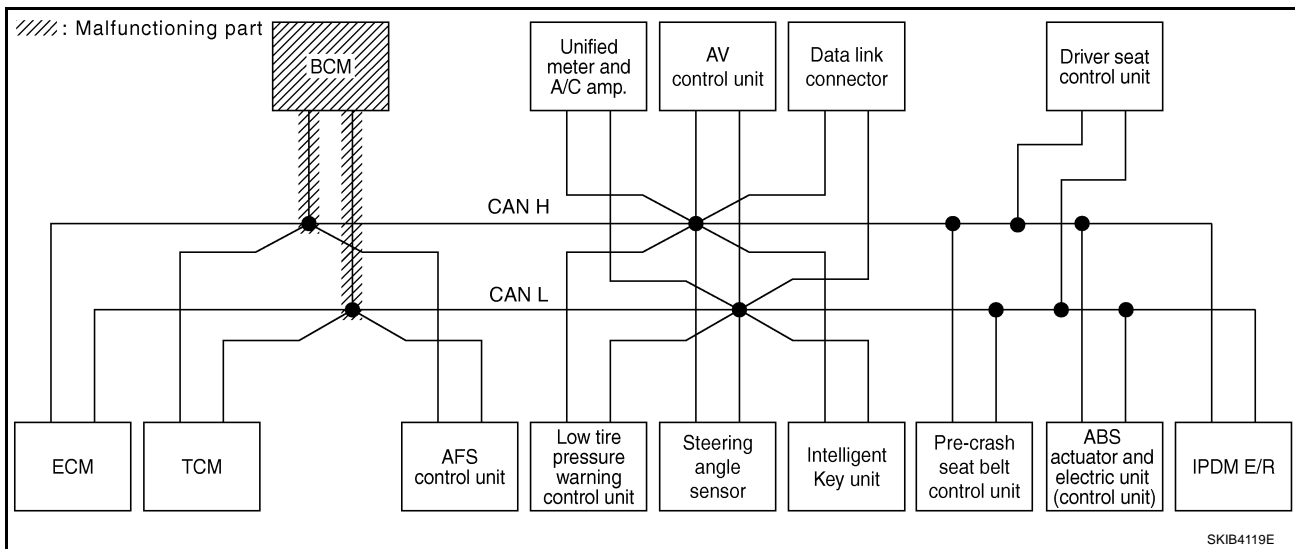
[CAN]

## Case 8

Check BCM circuit. Refer to [LAN-163, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8407E



SKIB4119E

# CAN SYSTEM (TYPE 3)

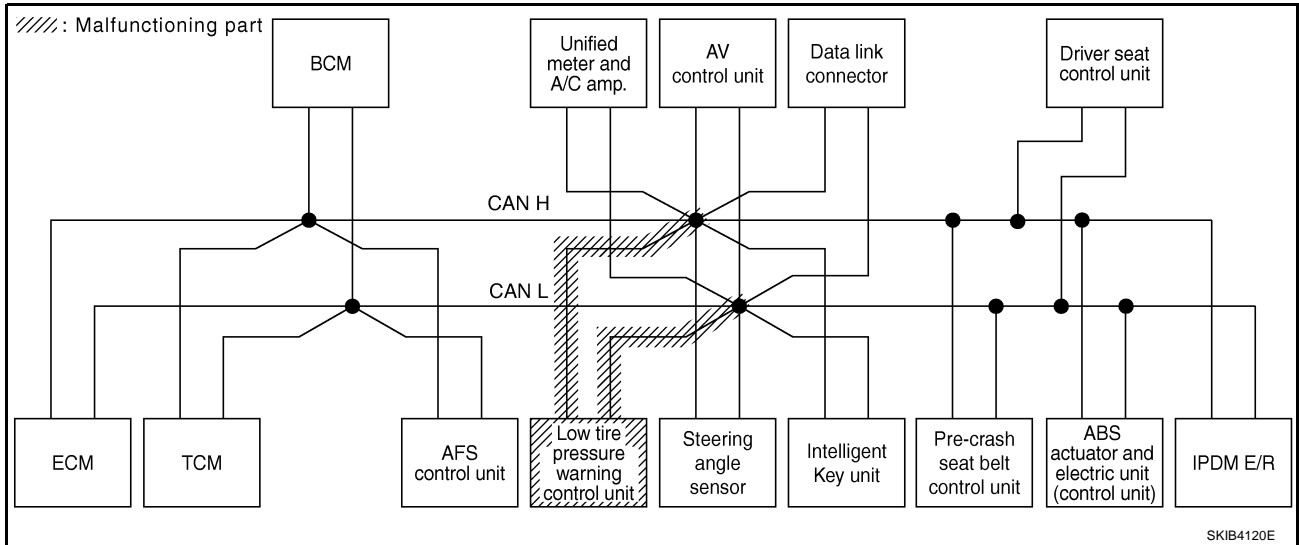
[CAN]

## Case 9

Check low tire pressure warning control unit circuit. Refer to [LAN-163, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8408E



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# CAN SYSTEM (TYPE 3)

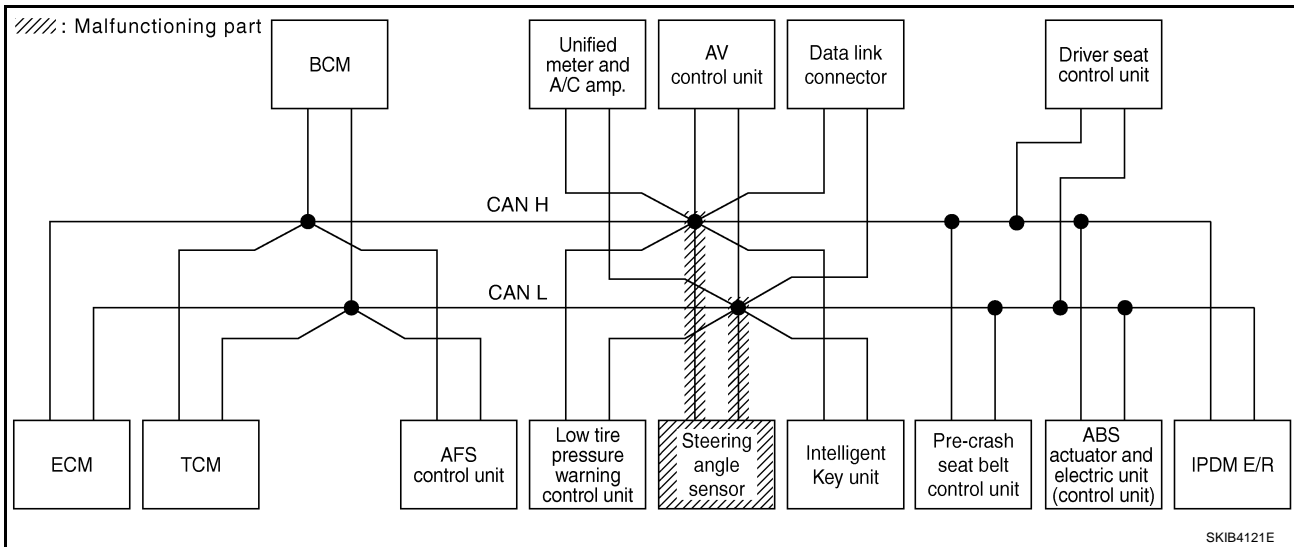
[CAN]

## Case 10

Check steering angle sensor circuit. Refer to [LAN-164, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8409E



SKIB4121E



# CAN SYSTEM (TYPE 3)

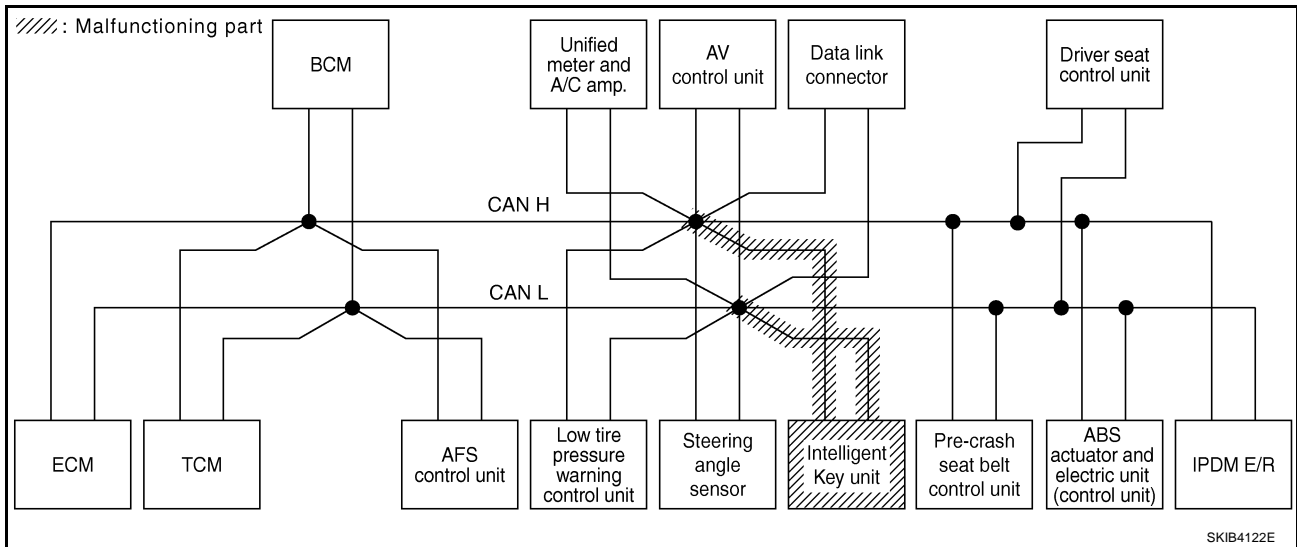
[CAN]

## Case 11

Check Intelligent Key unit circuit. Refer to [LAN-164, "Intelligent Key Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8410E



SKIB4122E

# CAN SYSTEM (TYPE 3)

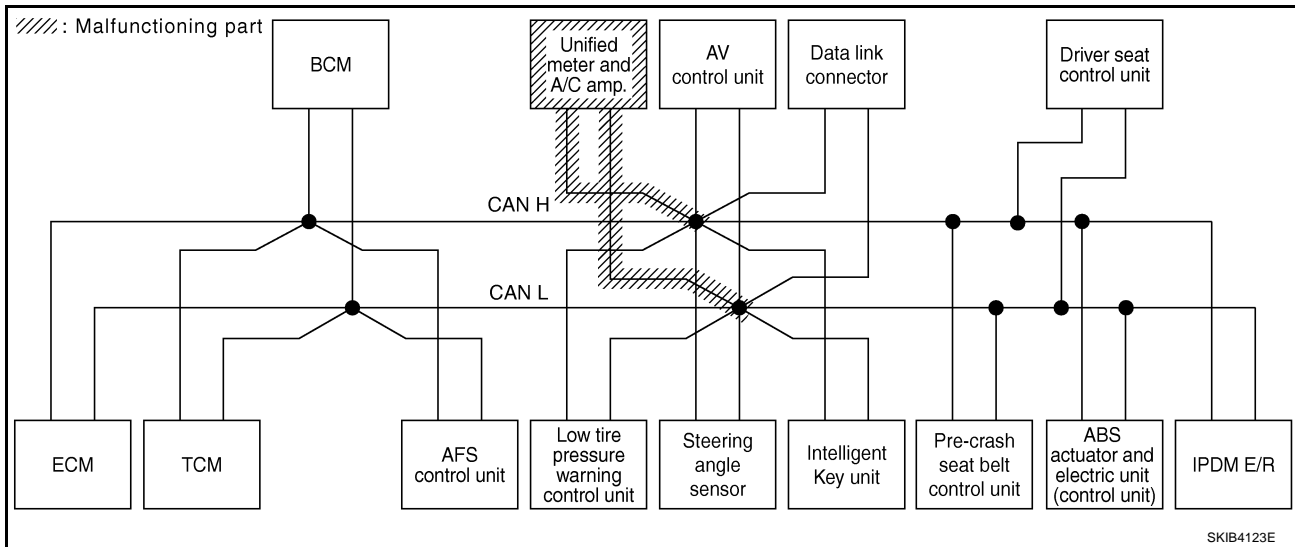
[CAN]

## Case 12

Check unified meter and A/C amp. circuit. Refer to [LAN-165, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS				
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8411E



SKIB4123E

# CAN SYSTEM (TYPE 3)

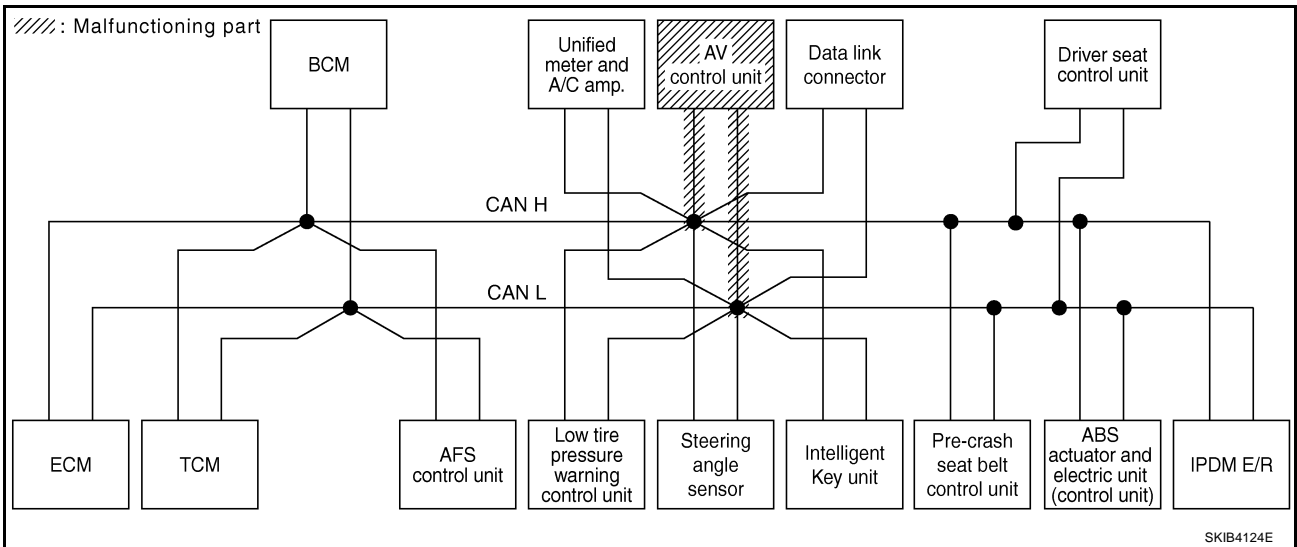
[CAN]

## Case 13

Check AV control unit circuit. Refer to [LAN-165, "AV Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8412E



SKIB4124E

# CAN SYSTEM (TYPE 3)

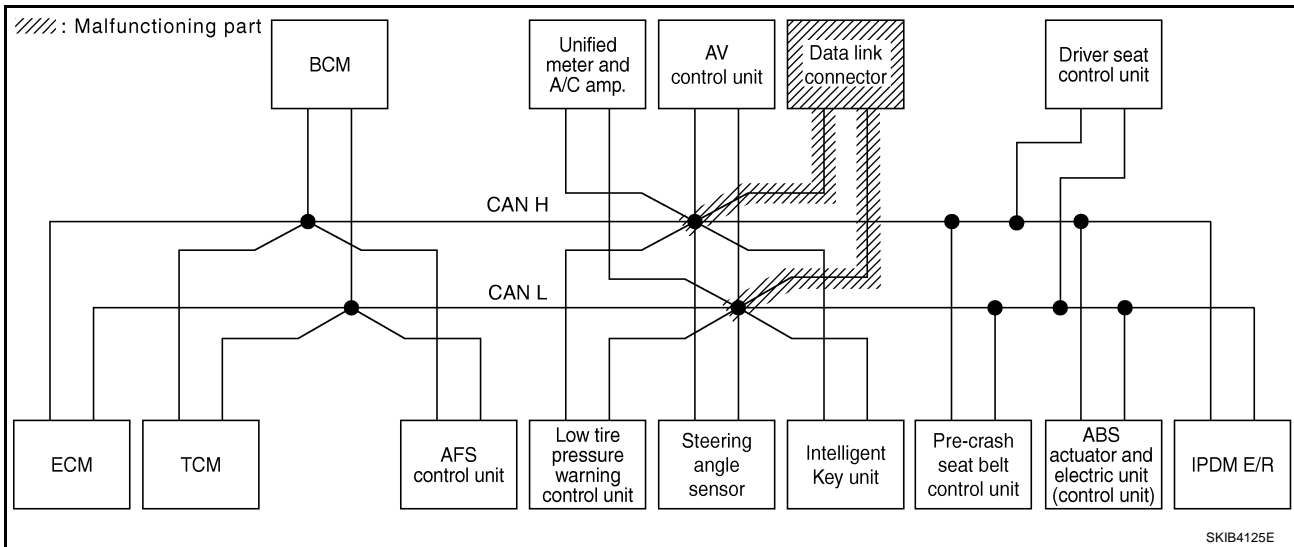
[CAN]

## Case 14

Check data link connector circuit. Refer to [LAN-166, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication ✓	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8413E



SKIB4125E

# CAN SYSTEM (TYPE 3)

[CAN]

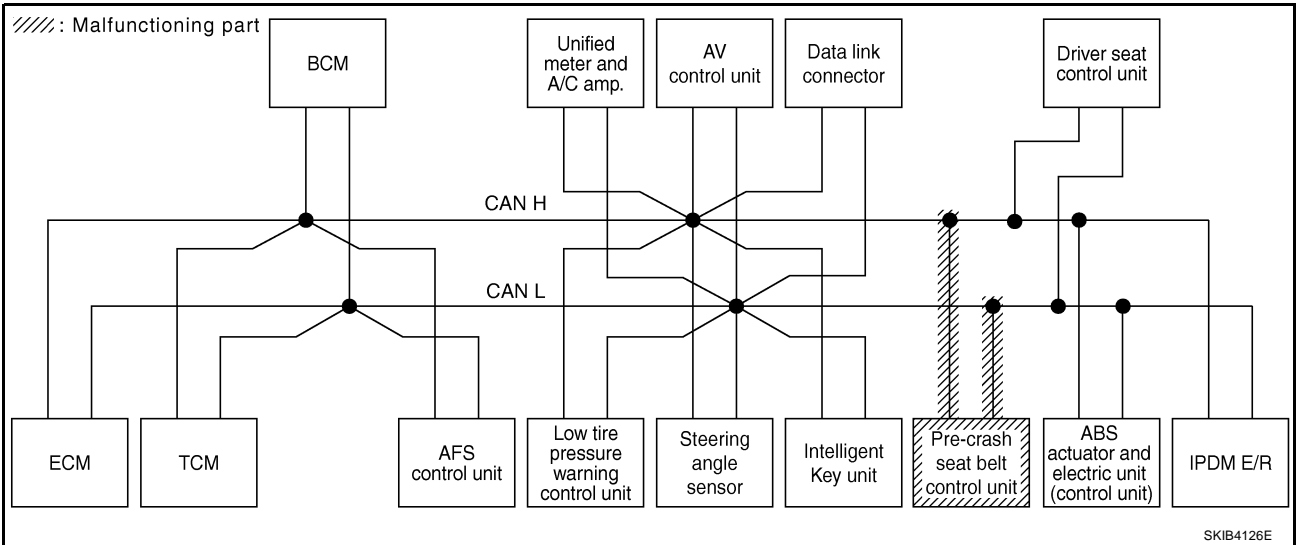
## Case 15

Check pre-crash seat belt control unit circuit. Refer to [LAN-166. "Pre-Crash Seat Belt Control Unit Circuit Inspection"](#) .

A  
B  
C  
D  
E  
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G  
H  
I  
J  
L  
M

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	✓	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8414E



LAN

# CAN SYSTEM (TYPE 3)

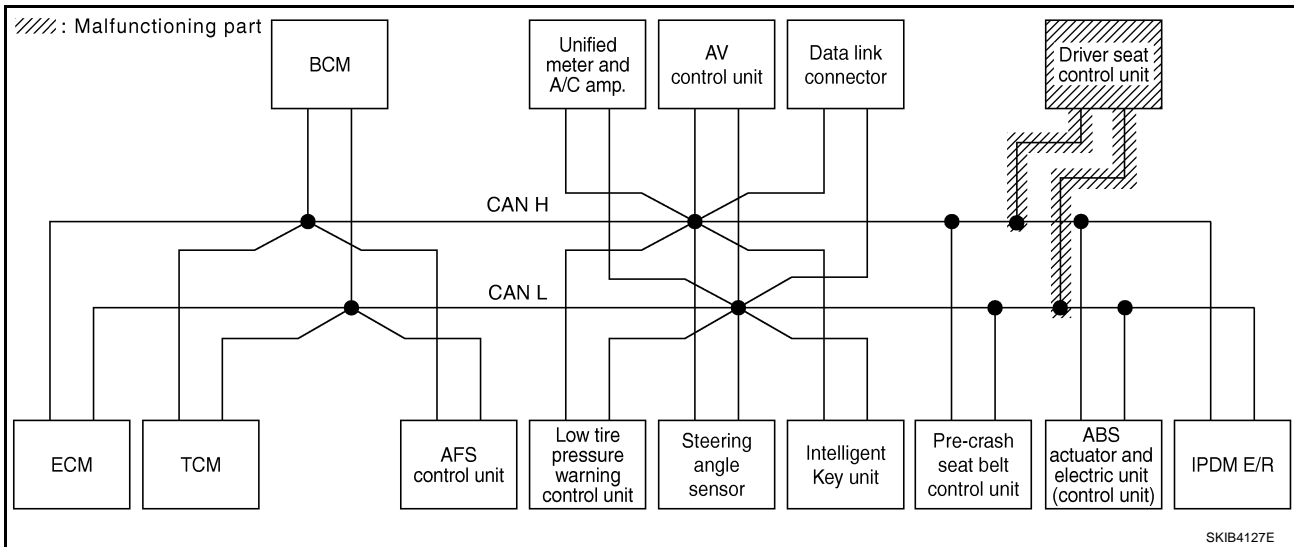
[CAN]

## Case 16

Check driver seat control unit circuit. Refer to [LAN-167, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8415E



SKIB4127E

# CAN SYSTEM (TYPE 3)

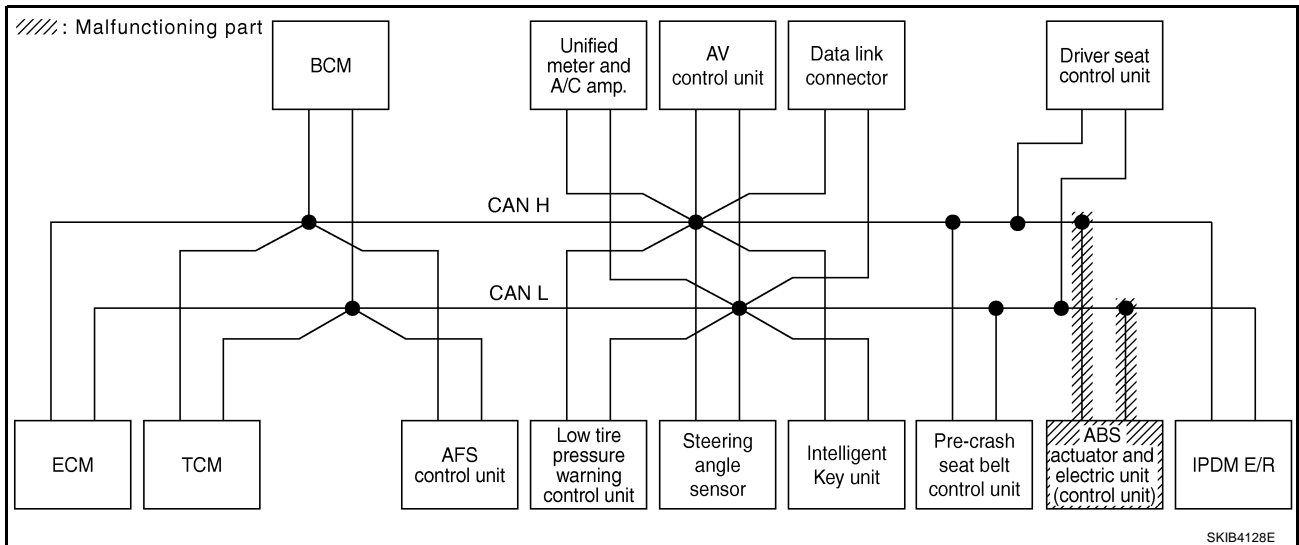
[CAN]

## Case 17

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-167, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS						
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)				
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS					IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	✓	✓	✓	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8416E



LAN

# CAN SYSTEM (TYPE 3)

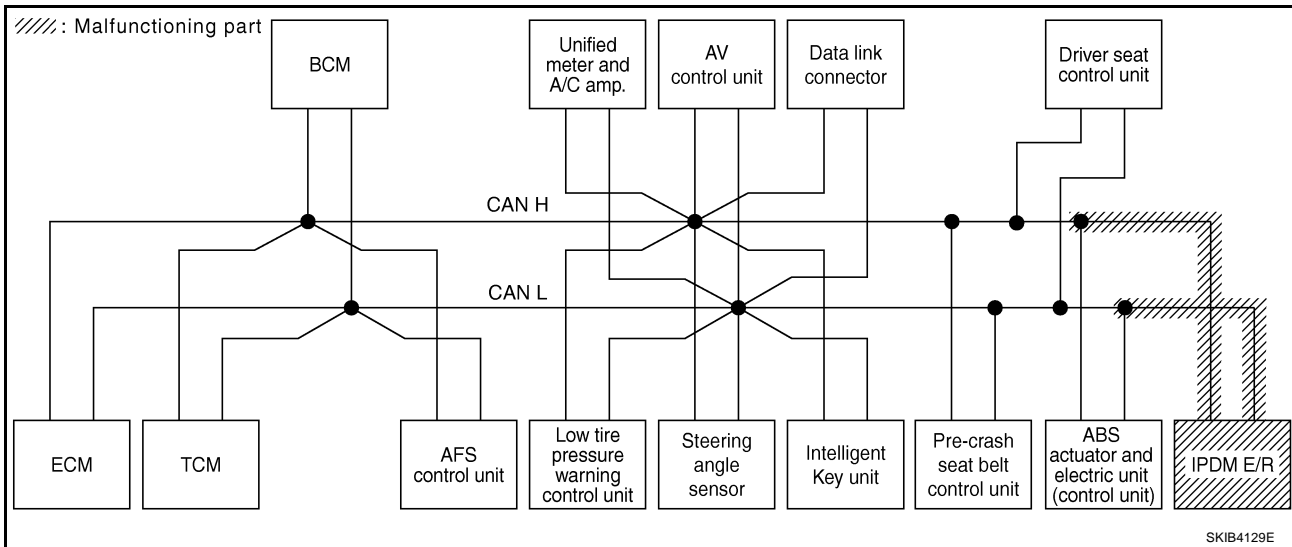
[CAN]

## Case 18

Check IPDM E/R circuit. Refer to [LAN-168, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R					
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS						
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8417E



SKIB4129E



# CAN SYSTEM (TYPE 3)

[CAN]

## Case 19

Check CAN communication circuit. Refer to [LAN-169, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8418E

## Case 20

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-176, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8419E

## Case 21

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-176, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8420E

## Inspection Between TCM and Data Link Connector Circuit

NKS003Z7

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

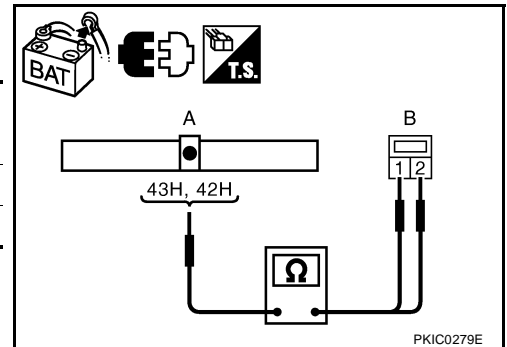
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.  
 NG >> Repair harness.



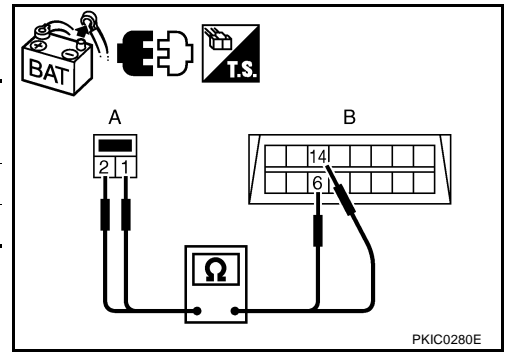
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit

NKS003Z8

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

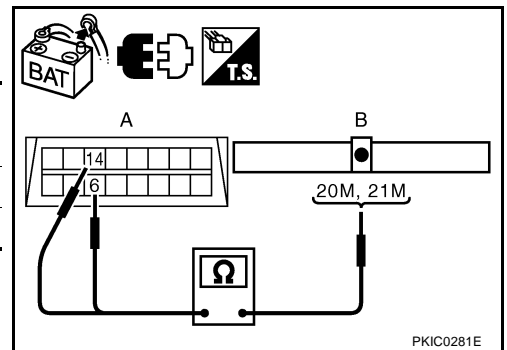
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

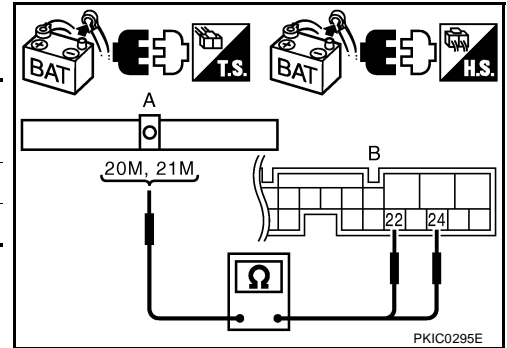
### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check continuity between harness connector (A) and pre-crash seat belt control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B142	24	Yes
	21M		22	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



### Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

NKS00329

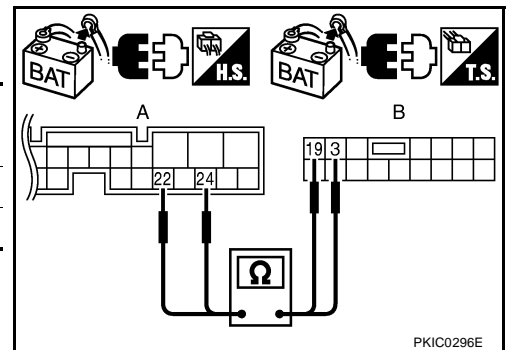
#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - Pre-crash seat belt control unit connector
  - harness connector B15
4. Check continuity between pre-crash seat belt control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B142	24	B15	3	Yes
	22		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



### Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS003ZA

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

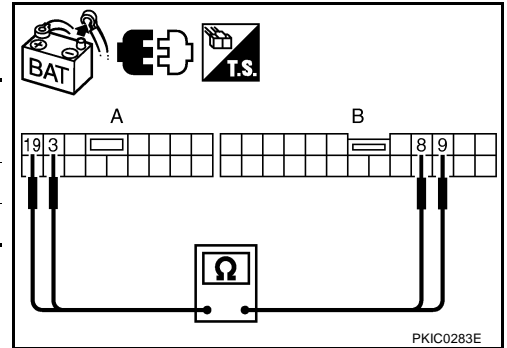
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

- OK >> GO TO 3.  
 NG >> Replace harness.



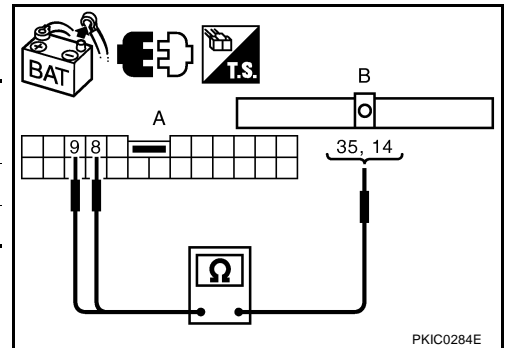
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).  
 NG >> Repair harness.



## ECM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

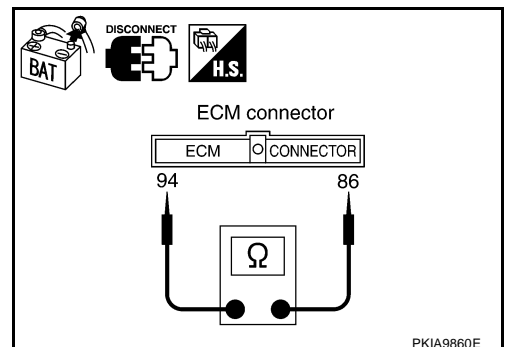
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

**OK or NG**

- OK >> Replace ECM.  
 NG >> Repair harness between ECM and A/T assembly.



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**TCM Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

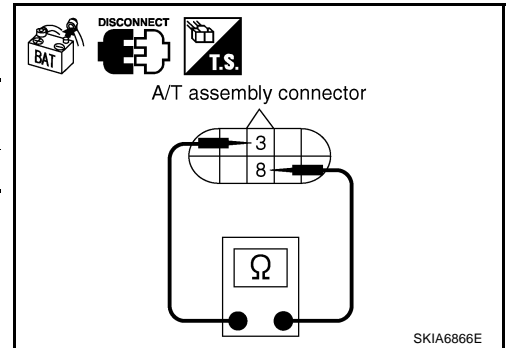
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.  
 NG >> Repair harness between A/T assembly and AFS control unit.

**AFS Control Unit Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

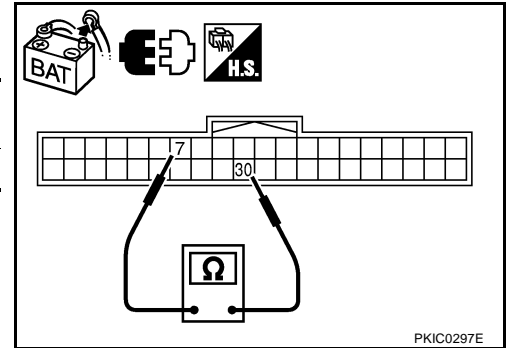
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
	30	7	
F110	30	7	54 – 66 Ω

### OK or NG

- OK >> Replace AFS control unit.  
 NG >> Repair harness between AFS control unit and BCM.



NKS003ZE

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

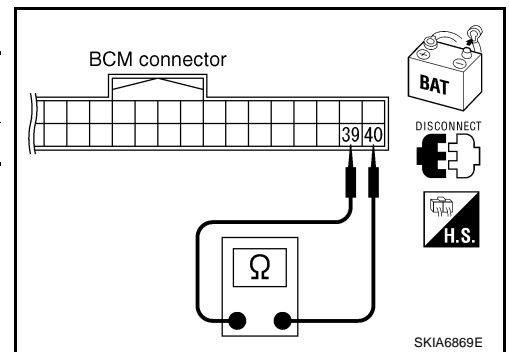
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
	39	40	
M1	39	40	54 – 66 Ω

### OK or NG

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and harness connector M61.



NKS003ZF

## Low Tire Pressure Warning Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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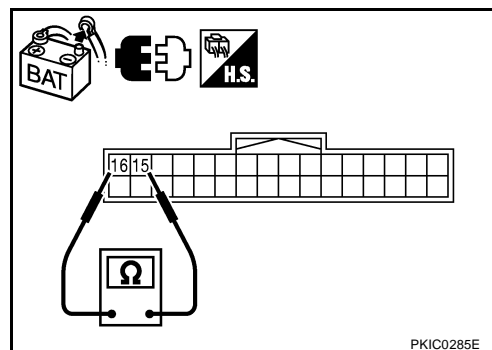
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
	15	16	
M19	15	16	54 – 66 Ω

### OK or NG

- OK >> Replace low tire pressure warning control unit.  
 NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS003ZG

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

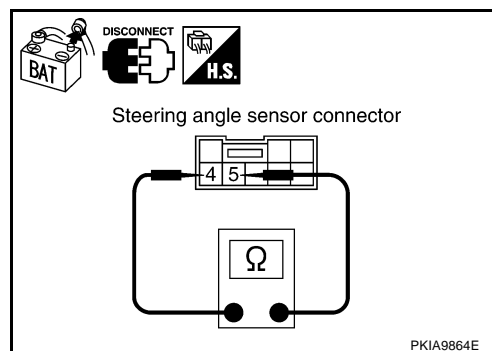
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
	4	5	
M47	4	5	54 – 66 Ω

### OK or NG

- OK >> Replace steering angle sensor.  
 NG >> Repair harness between steering angle sensor and data link connector.



## Intelligent Key Unit Circuit Inspection

NKS003ZH

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.



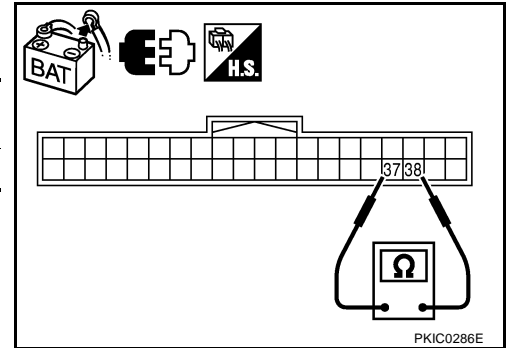
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
	38	37	
M32	38	37	54 – 66 Ω

### OK or NG

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS003Z1

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

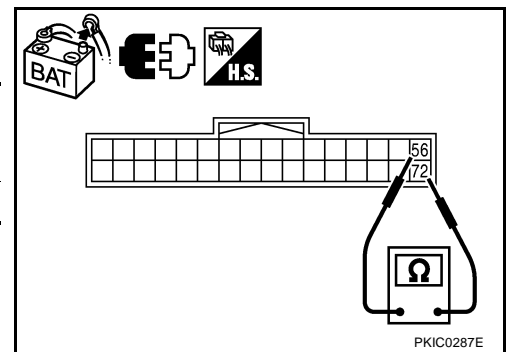
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
	56	72	
M65	56	72	54 – 66 Ω

### OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS003ZJ

## AV Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AV control unit connector
  - Harness connector M216
  - Harness connector M53

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

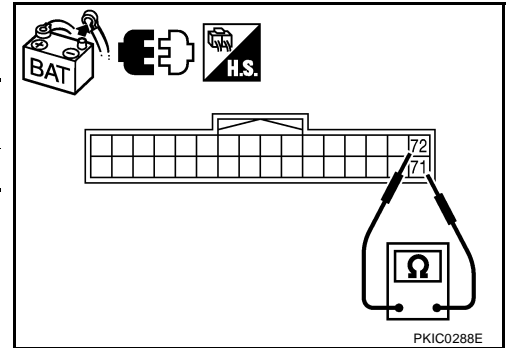
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AV control unit connector.
2. Check resistance between AV control unit harness connector terminals.

AV control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

### OK or NG

- OK >> Replace AV control unit.  
 NG >> Repair harness between AV control unit and data link connector.



NKS003ZK

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

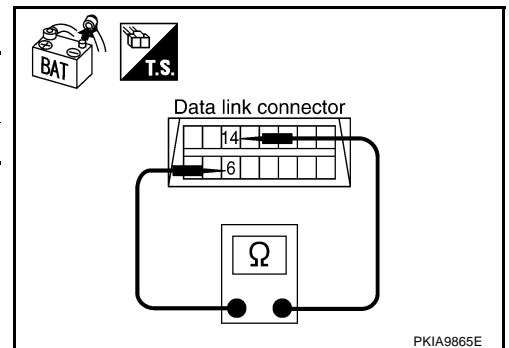
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

### OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#) .  
 NG >> Repair harness between data link connector and harness connector M13.



NKS003ZL

## Pre-Crash Seat Belt Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of pre-crash seat belt control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

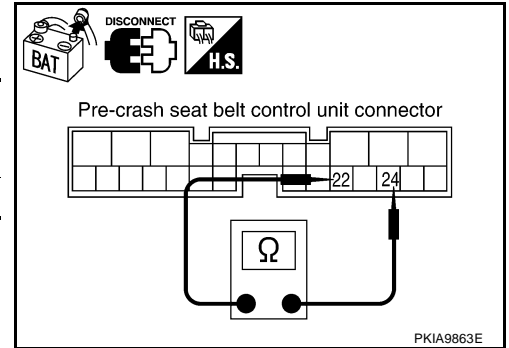
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check resistance between pre-crash seat belt control unit harness connector terminals.

Pre-crash seat belt control unit connector	Terminal		Resistance (Approx.)
B142	24	22	54 – 66 Ω

**OK or NG**

- OK >> Replace pre-crash seat belt control unit.
- NG >> Replace harness.



NKS003ZM

## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

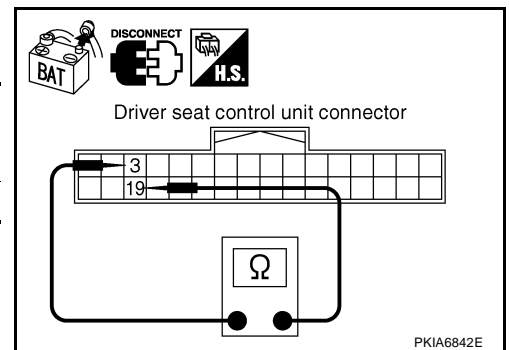
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

**OK or NG**

- OK >> Replace driver seat control unit.
- NG >> Replace harness.



NKS003ZN

## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

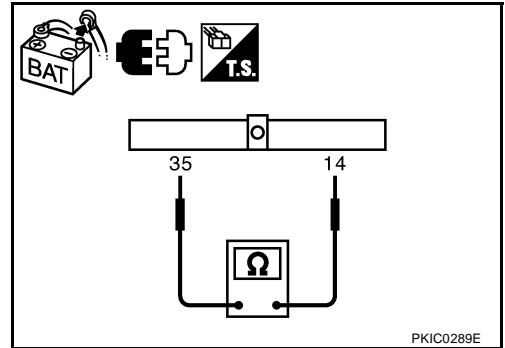
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## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω



**OK or NG**

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.

## IPDM E/R Circuit Inspection

NKS003Z0

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

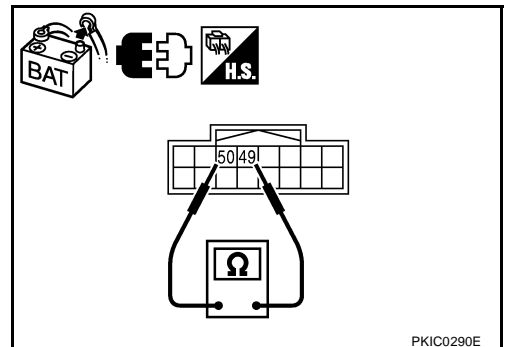
**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω



**OK or NG**

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R and harness connector E105.

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
  - Between ECM and A/T assembly
  - Between ECM and AFS control unit
  - Between ECM and AV control unit
  - Between ECM and driver seat control unit
  - Between ECM and IPDM E/R

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

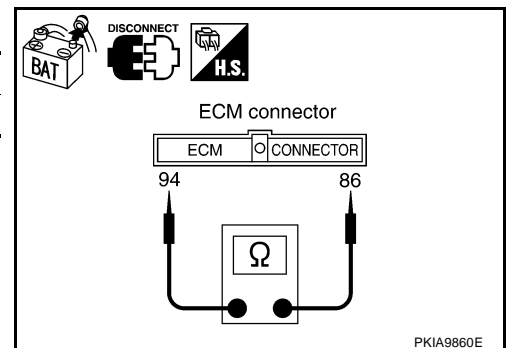
### 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



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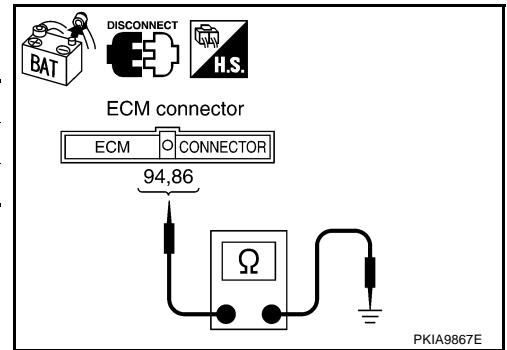
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		
	86	No	

**OK or NG**

- OK >> GO TO 4.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



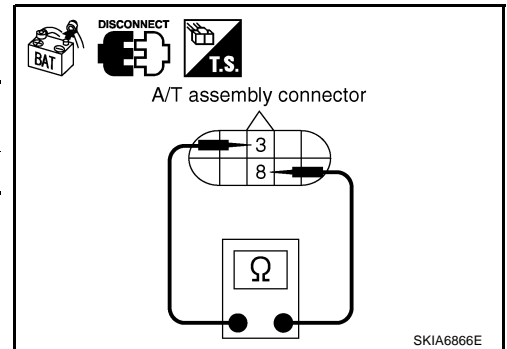
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.
- NG >> Repair harness between A/T assembly and harness connector F102.



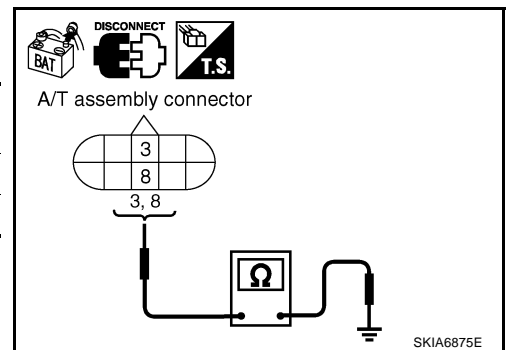
## 5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

**OK or NG**

- OK >> GO TO 6.
- NG >> Repair harness between A/T assembly and harness connector F102.



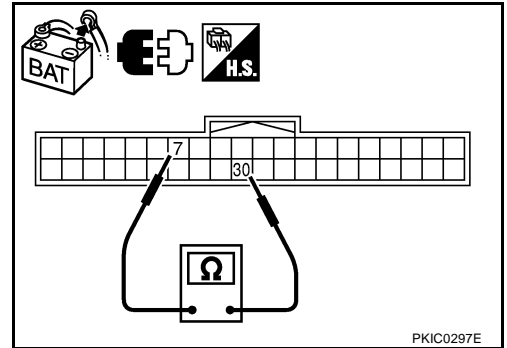
**6. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Continuity
F110	30	7	No

**OK or NG**

- OK >> GO TO 7.  
 NG >> Repair harness between AFS control unit and harness connector F102.



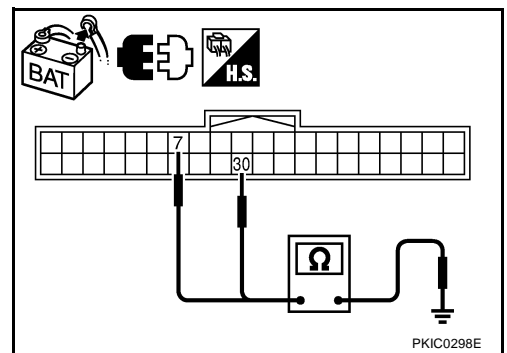
**7. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		No
	7	No	

**OK or NG**

- OK >> GO TO 8.  
 NG >> Replace harness between AFS control unit and harness connector F102.



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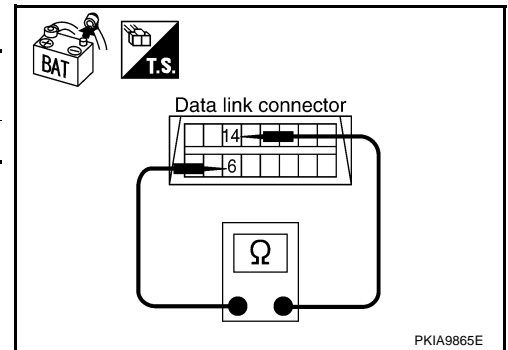
## 8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

Data link connector	Terminal		Continuity
M60	6	14	No

**OK or NG**

- OK >> GO TO 9.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



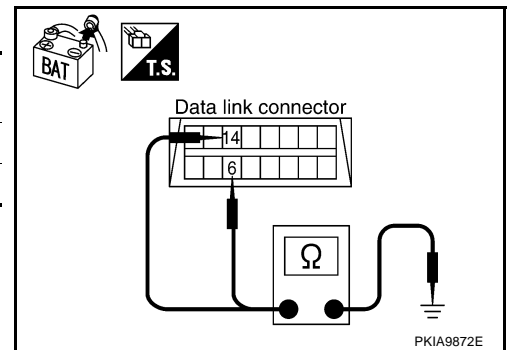
## 9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

Data link connector	Terminal	Ground	Continuity
M60	6		
	14	No	

**OK or NG**

- OK >> GO TO 10.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13





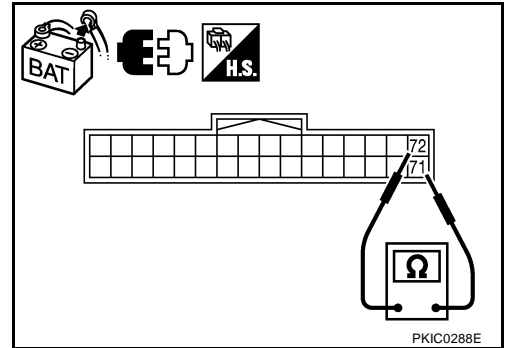
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect AV control unit connector.
2. Check continuity between AV control unit harness connector terminals.

AV control unit connector	Terminal		Continuity
M210	71	72	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Repair harness between AV control unit and harness connector M216.



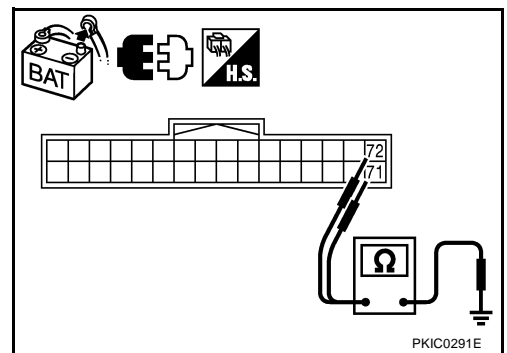
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between AV control unit harness connector terminals and ground.

AV control unit connector	Terminal	Ground	Continuity
M210	71		No
	72	No	

**OK or NG**

- OK >> GO TO 12.  
 NG >> Repair harness between AV control unit and harness connector M216.



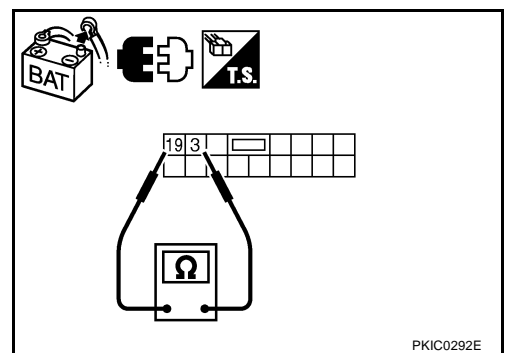
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Pre-crash seat belt control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Replace harness.



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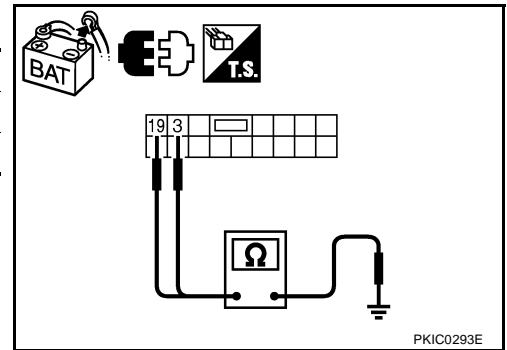
### 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19	No	

OK or NG

- OK >> GO TO 14.
- NG >> Replace harness.



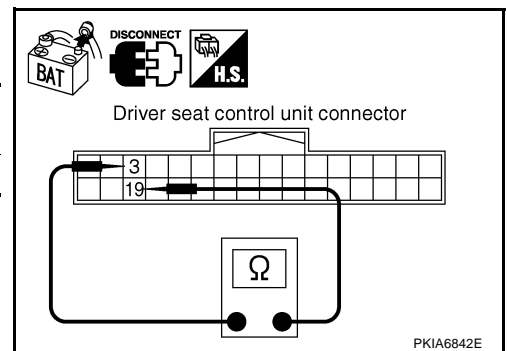
### 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal	Continuity
B204	3	No
	19	No

OK or NG

- OK >> GO TO 15.
- NG >> Repair harness between driver seat control unit and harness connector B202.



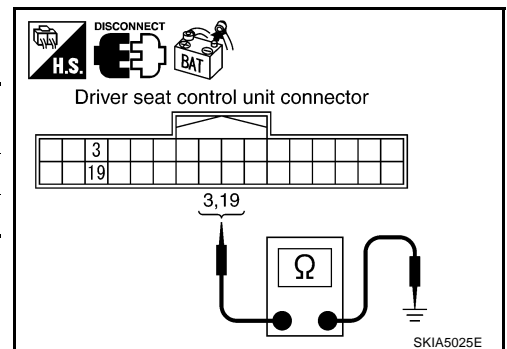
### 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

OK or NG

- OK >> GO TO 16.
- NG >> Repair harness between driver seat control unit and harness connector B202.



## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

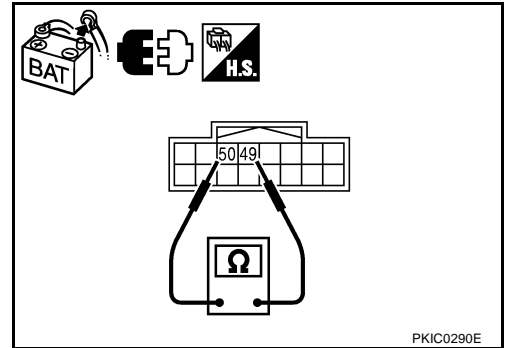
IPDM E/R connector	Terminal		Continuity
E9	49	50	No

**OK or NG**

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

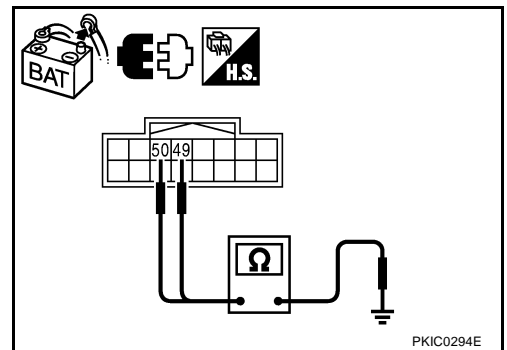
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		
	50		No

**OK or NG**

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal	Terminal	Resistance (Approx.)
94	86	108 – 132 Ω

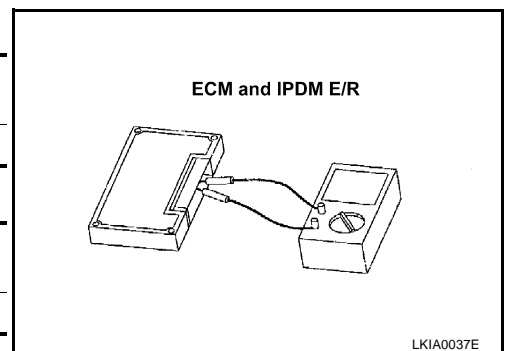
3. Check resistance between IPDM E/R terminals.

Terminal	Terminal	Resistance (Approx.)
49	50	108 – 132 Ω

**OK or NG**

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



A  
B  
C  
D  
E  
F  
G  
H  
I  
J

LAN

L  
M

## 19. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

NKS003ZQ

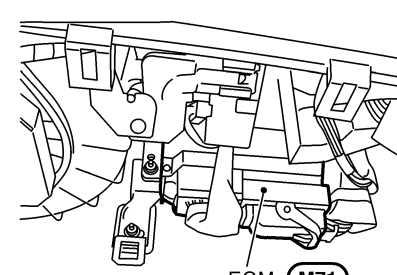
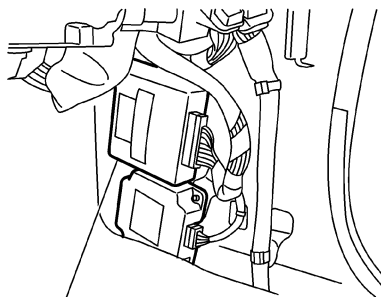
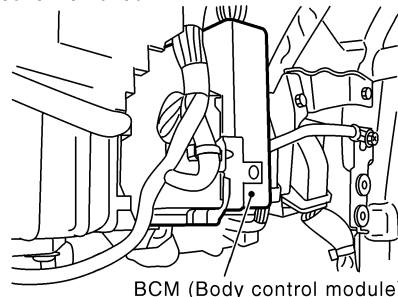
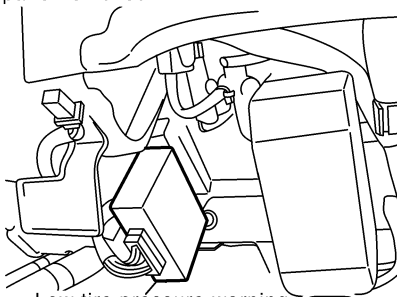
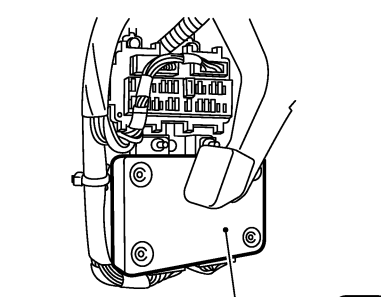
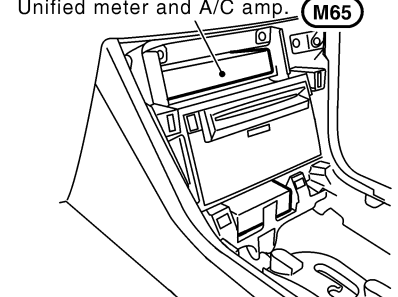
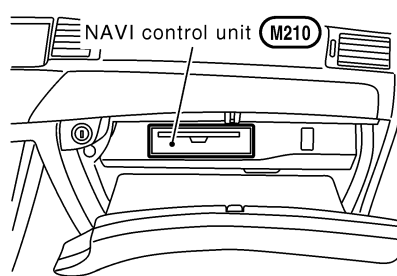
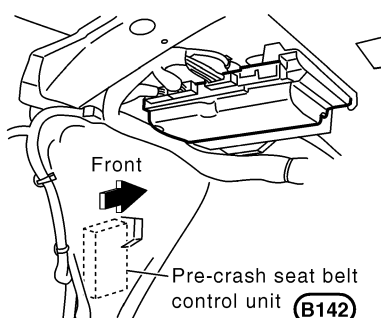
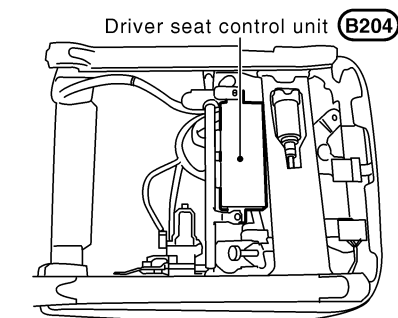
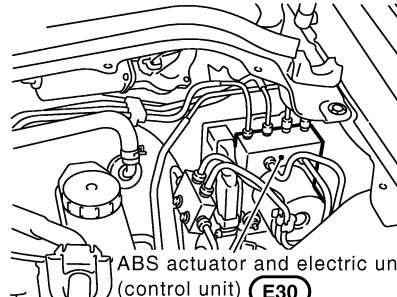
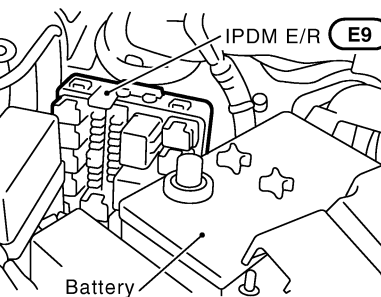
Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)

## CAN SYSTEM (TYPE 4)

### Component Parts and Harness Connector Location

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>NAVI control unit (M210)</p>	<p>View with trunk side LH finisher and front finisher removed</p>  <p>Front</p> <p>Pre-crash seat belt control unit (B142)</p>	<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>
<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>	

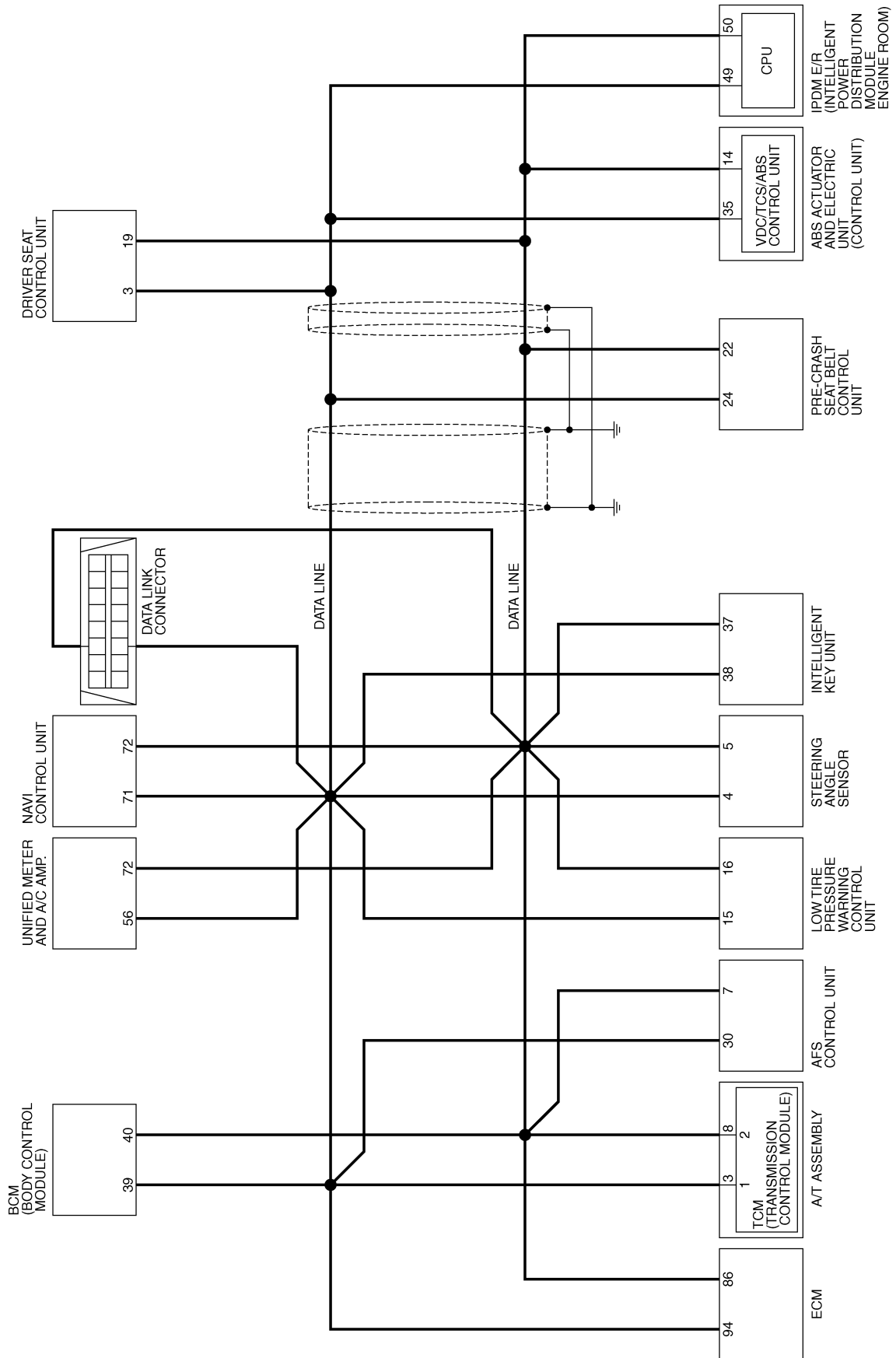
PKIC0602E

# CAN SYSTEM (TYPE 4)

[CAN]

## Schematic

NKS003ZS



TKWT3260E

# CAN SYSTEM (TYPE 4)

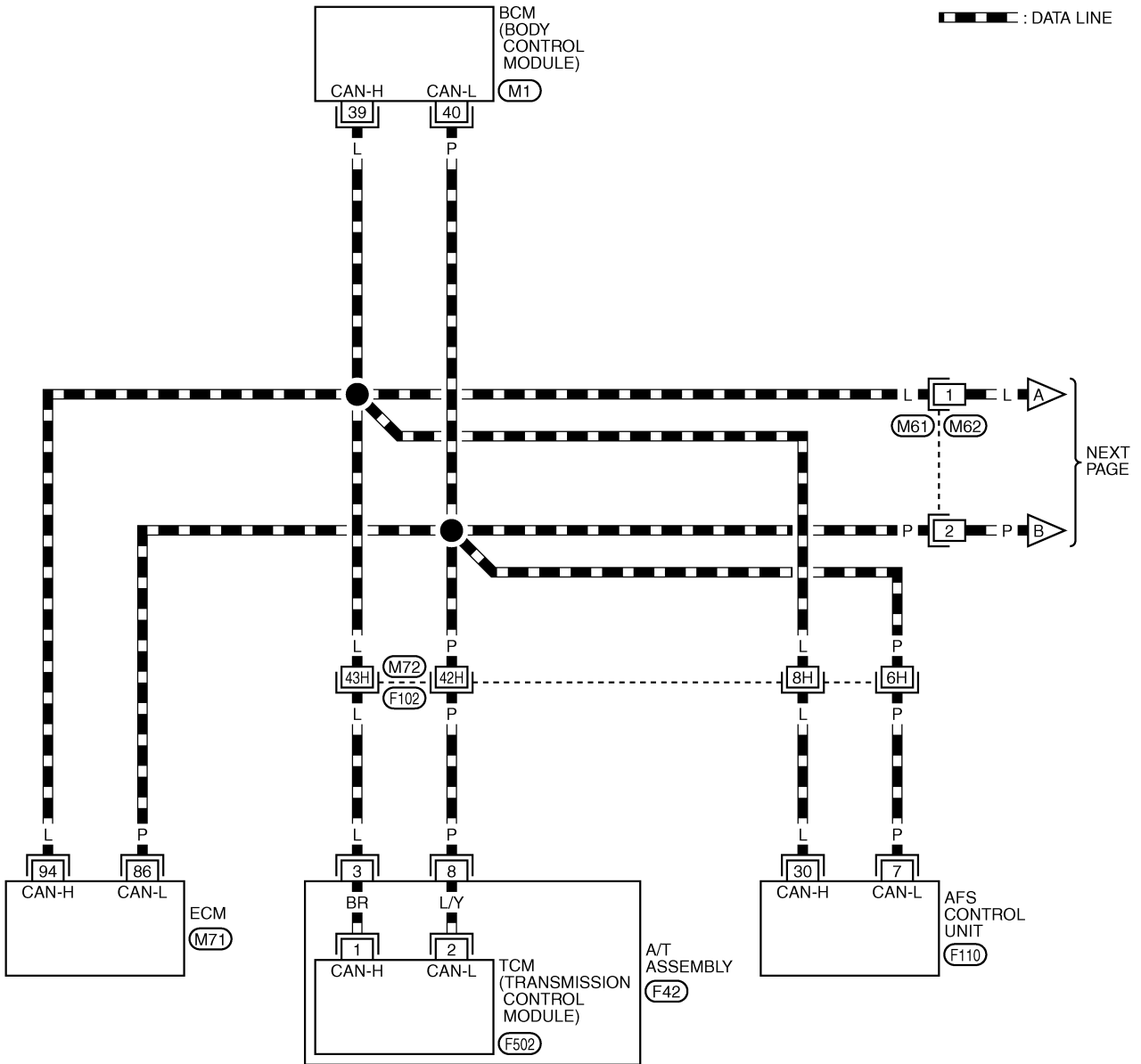
[CAN]

## Wiring Diagram — CAN —

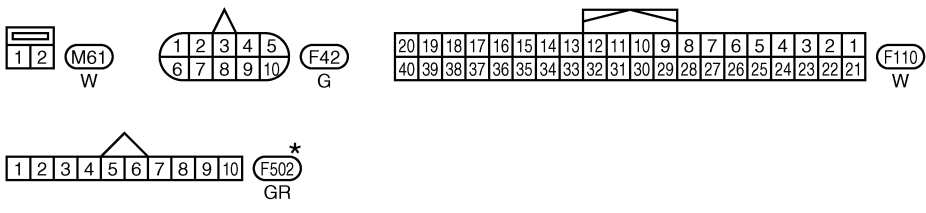
NKS003ZT

### LAN-CAN-11

▬ : DATA LINE



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M



REFER TO THE FOLLOWING.  
 (F102) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

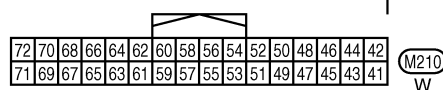
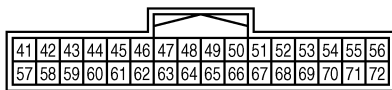
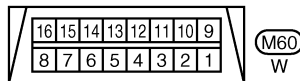
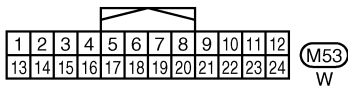
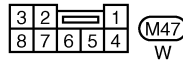
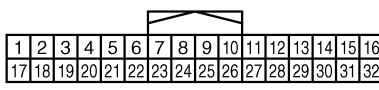
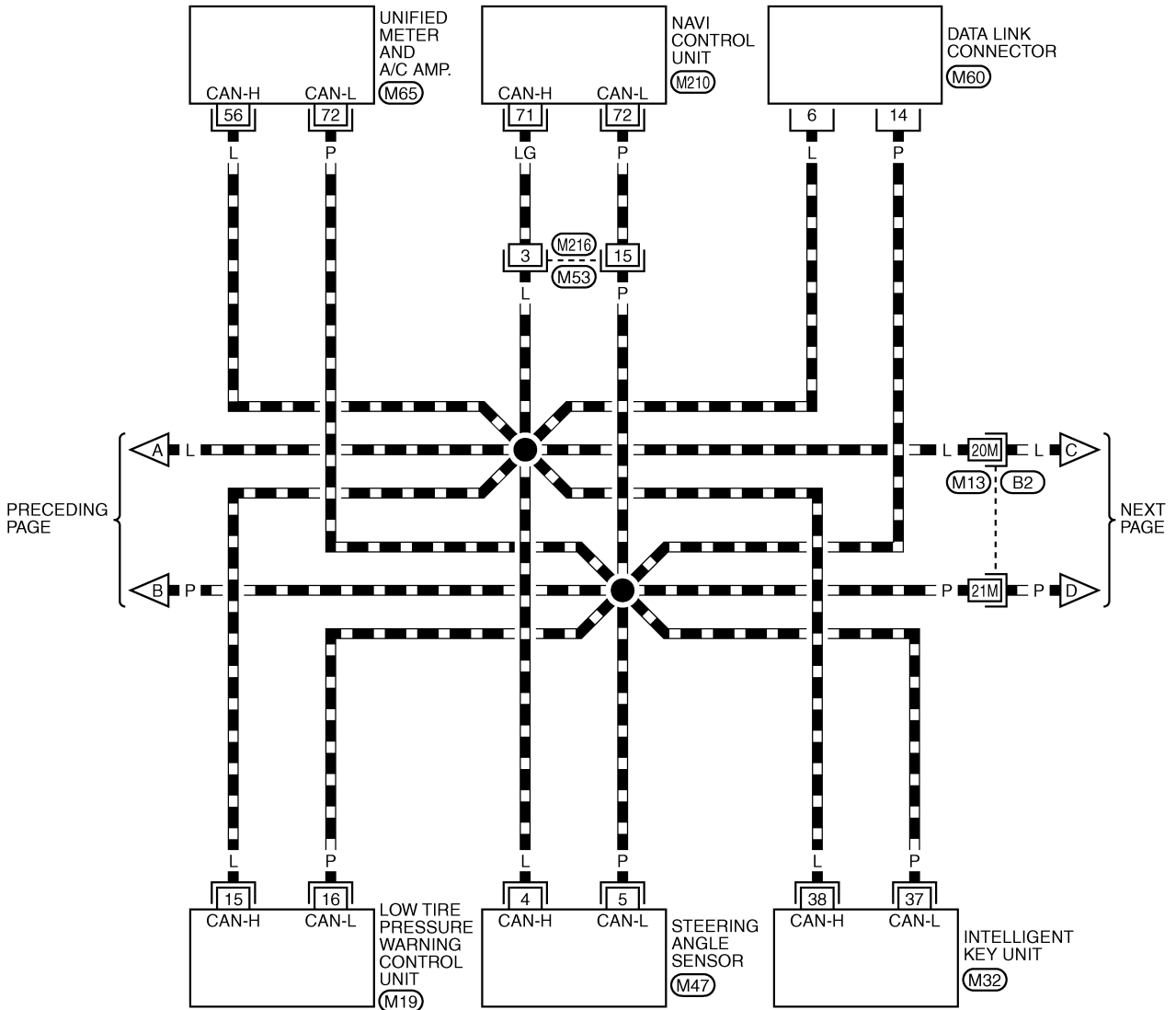
TKWT3261E

# CAN SYSTEM (TYPE 4)

[CAN]

## LAN-CAN-12

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

TKWT3262E

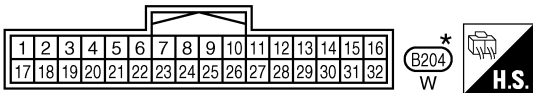
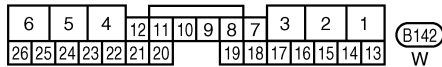
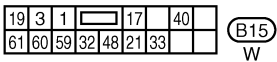
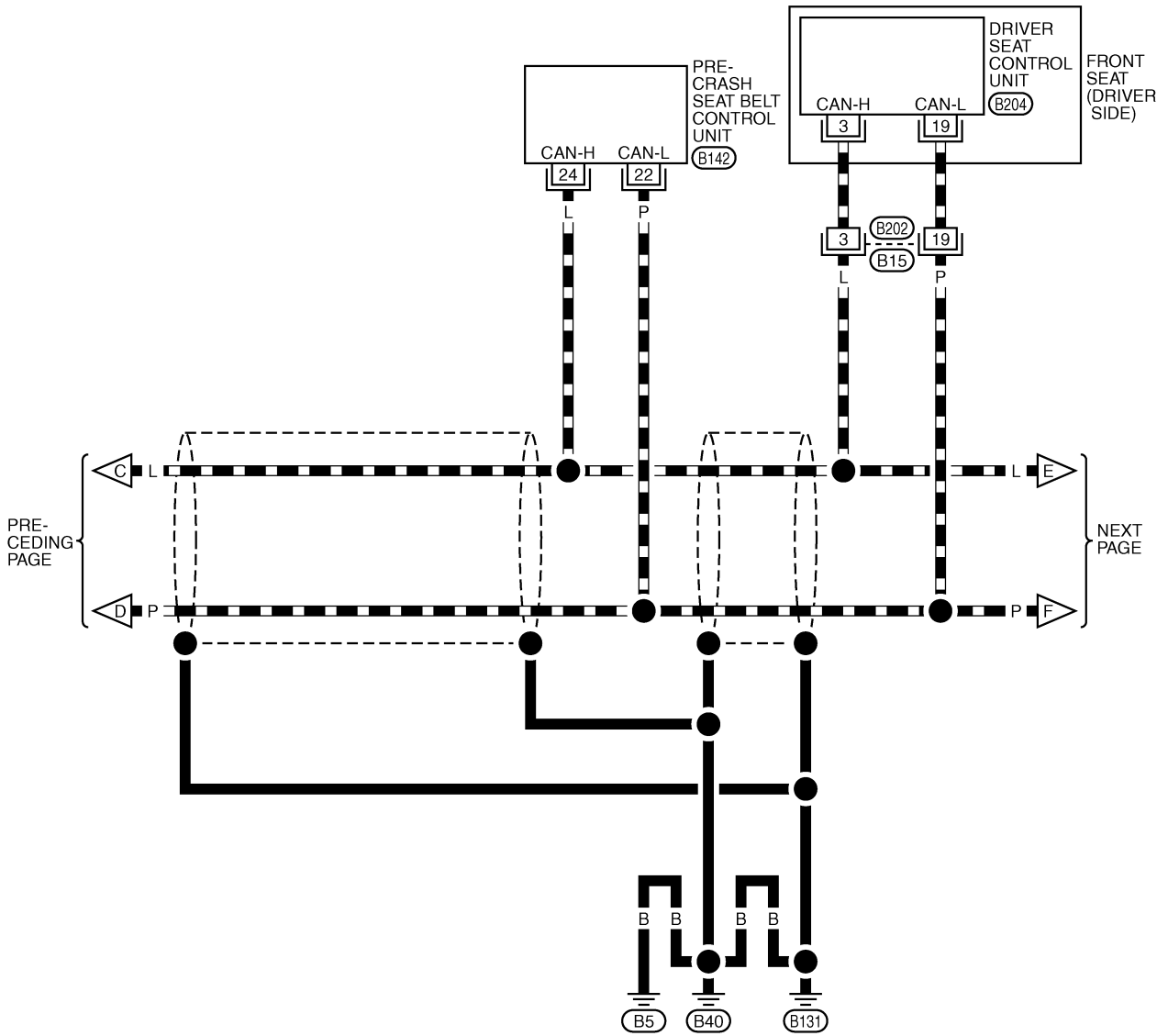


# CAN SYSTEM (TYPE 4)

[CAN]

## LAN-CAN-13

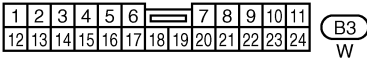
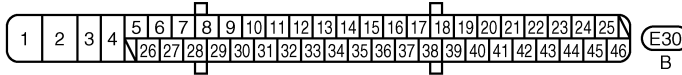
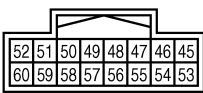
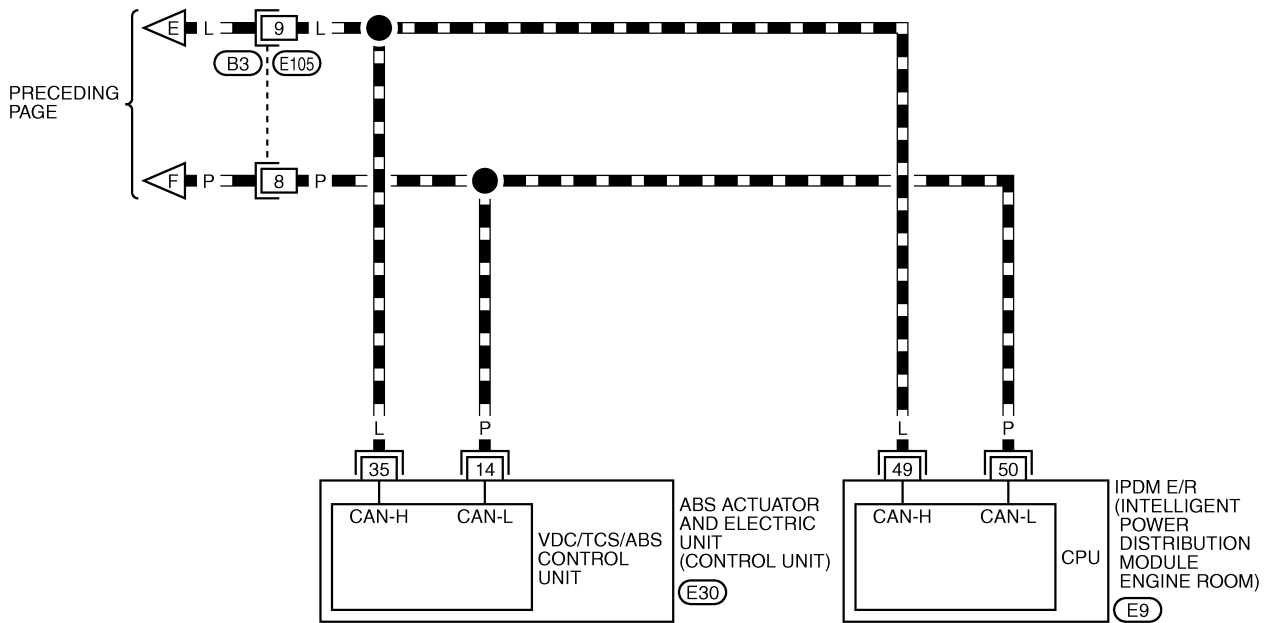
— : DATA LINE



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3263E

▬ : DATA LINE



# CAN SYSTEM (TYPE 4)

[CAN]

NKS003ZU

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8399E

# CAN SYSTEM (TYPE 4)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
PRECRASH SEATBELT  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9557E

# CAN SYSTEM (TYPE 4)

[CAN]

A  
B  
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D  
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G  
H  
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J  
LAN  
L  
M

Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
PRECRASH SEATBELT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9558E

# CAN SYSTEM (TYPE 4)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

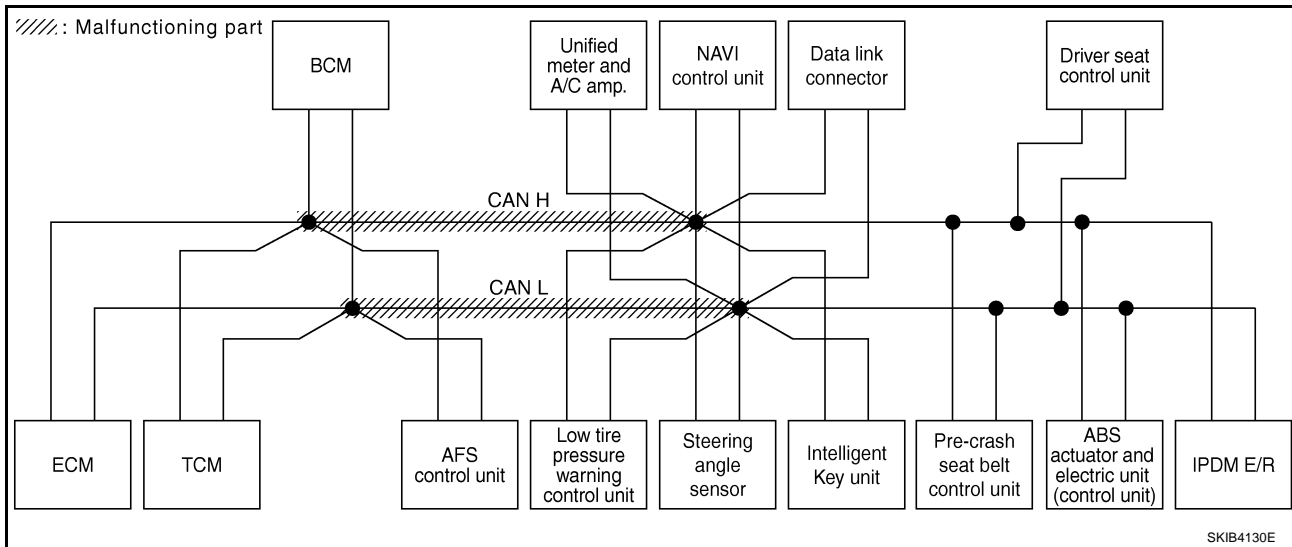
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-205, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS					
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R						
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8400E





# CAN SYSTEM (TYPE 4)

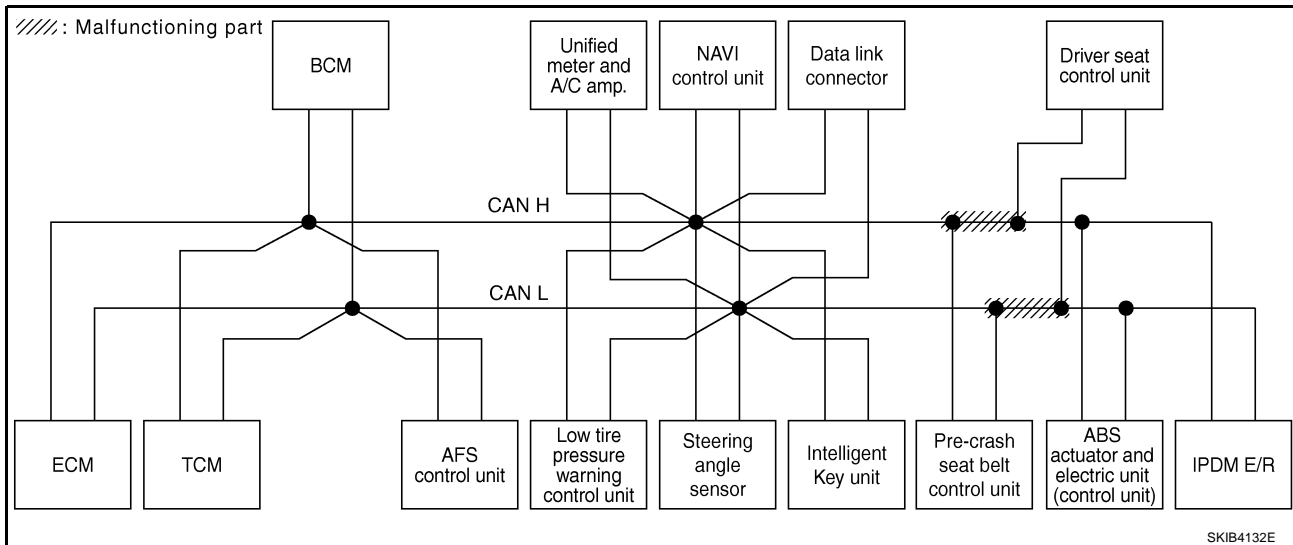
[CAN]

## Case 3

Check harness between pre-crash seat belt control unit and driver seat control unit. Refer to [LAN-207](#).  
"Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit" .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS					
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)			
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS					IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	✓	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	✓	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	✓	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	✓	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	✓	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8402E







# CAN SYSTEM (TYPE 4)

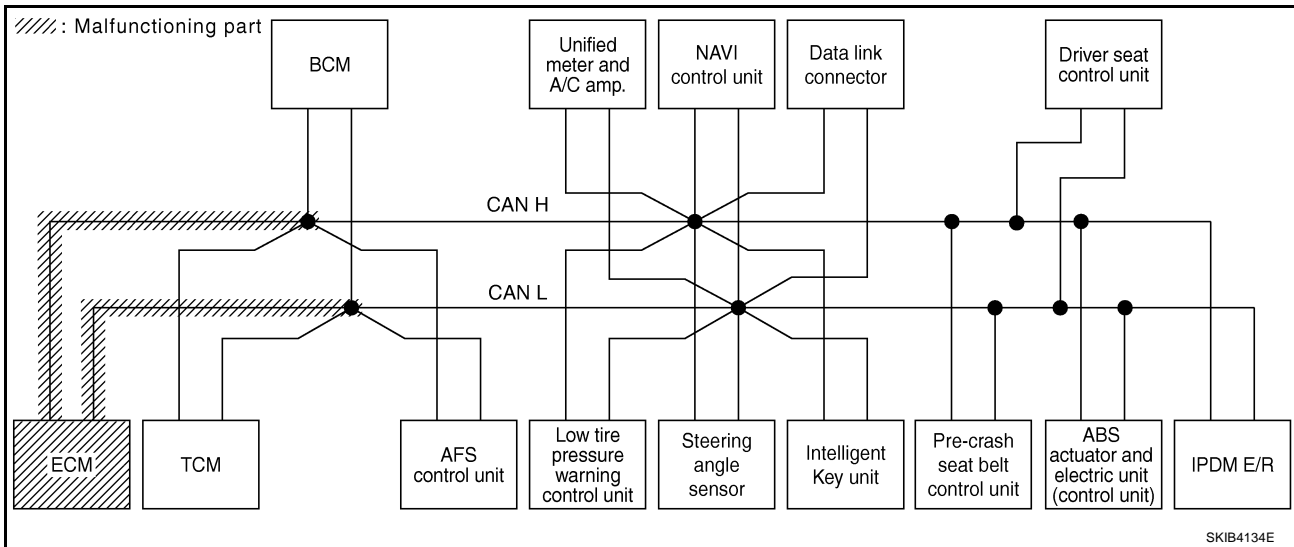
[CAN]

## Case 5

Check ECM circuit. Refer to [LAN-208, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U00)	CAN COMM CIRCUIT (U01)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U00)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U00)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U00)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U00)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U00)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U00)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U00)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U00)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U00)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U00)	—

PKIB8404E



SKIB4134E

# CAN SYSTEM (TYPE 4)

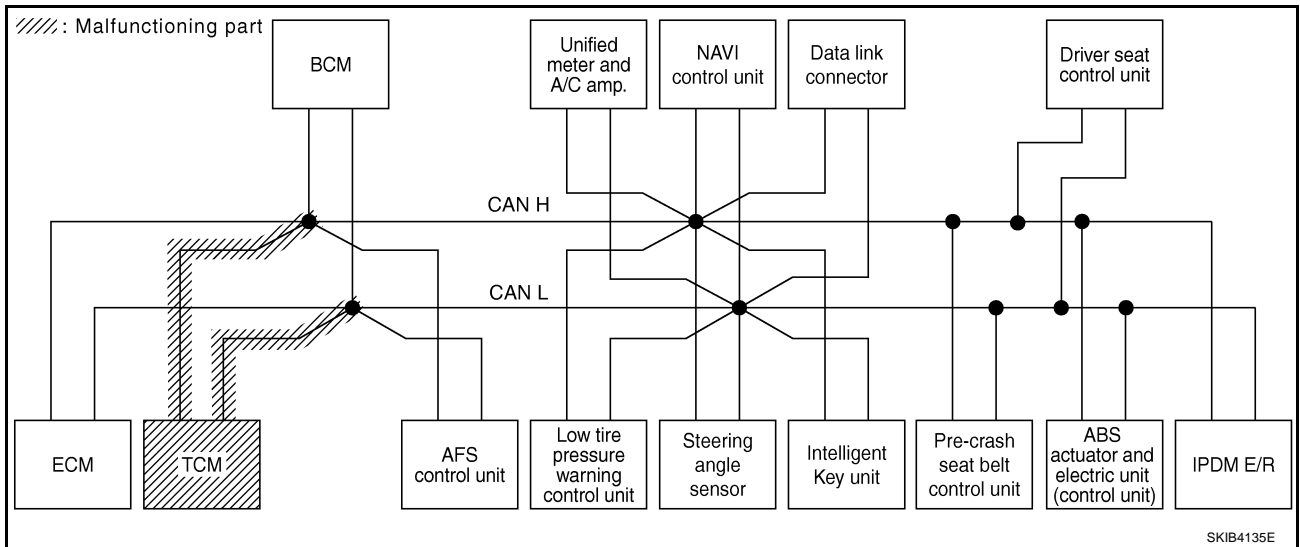
[CAN]

## Case 6

Check TCM circuit. Refer to [LAN-209, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN ✓	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
A/T	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	UNKWN ✓	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN ✓	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN ✓	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN ✓	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN ✓	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIB8405E



SKIB4135E

# CAN SYSTEM (TYPE 4)

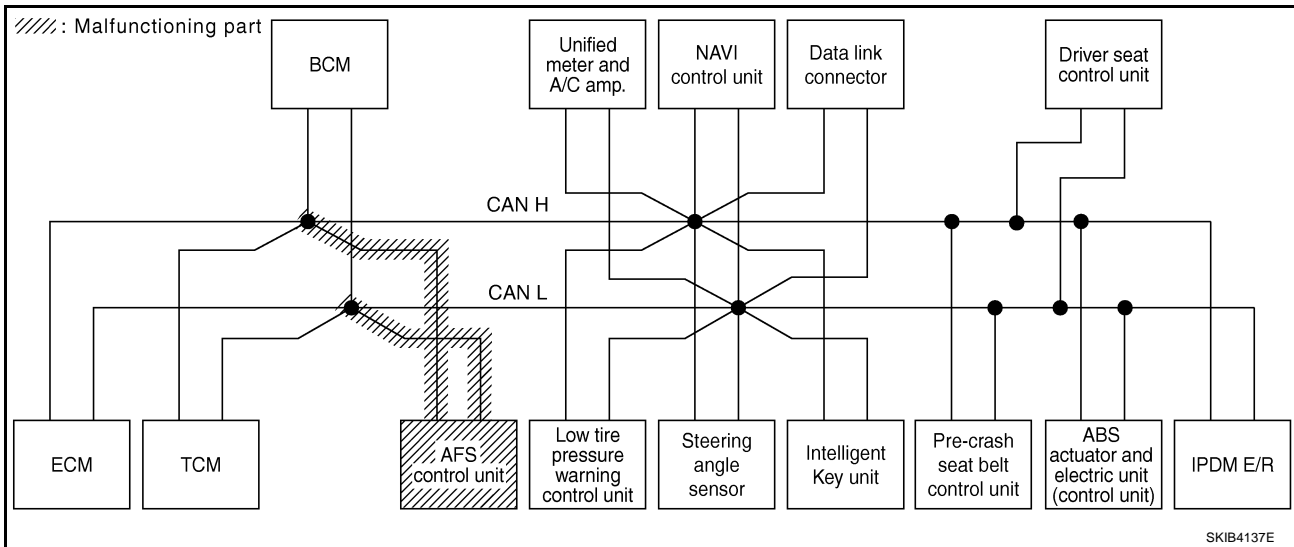
[CAN]

## Case 7

Check AFS control unit circuit. Refer to [LAN-209, "AFS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8406E



SKIB4137E

# CAN SYSTEM (TYPE 4)

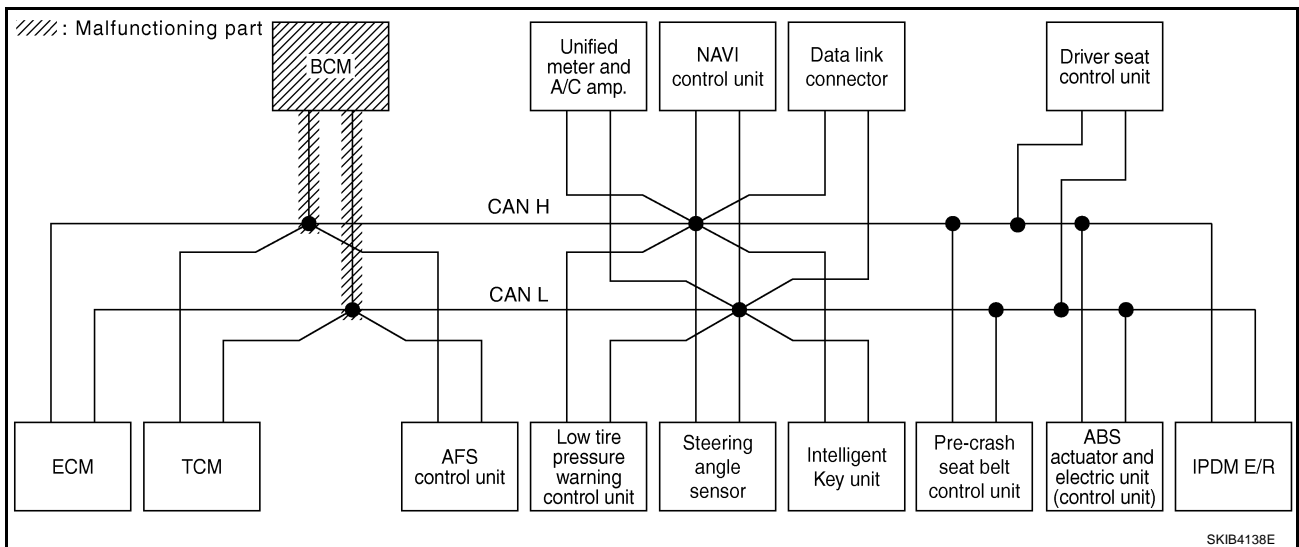
[CAN]

## Case 8

Check BCM circuit. Refer to [LAN-210, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN ✓	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN ✓	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8407E



SKIB4138E

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# CAN SYSTEM (TYPE 4)

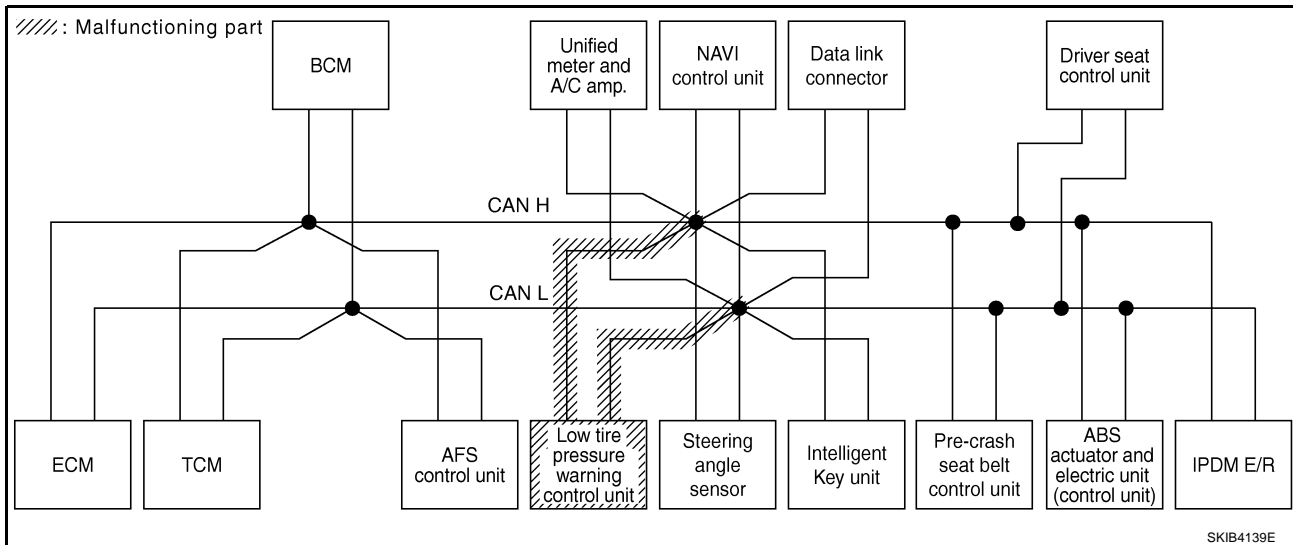
[CAN]

## Case 9

Check low tire pressure warning control unit circuit. Refer to [LAN-210, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8408E



SKIB4139E

# CAN SYSTEM (TYPE 4)

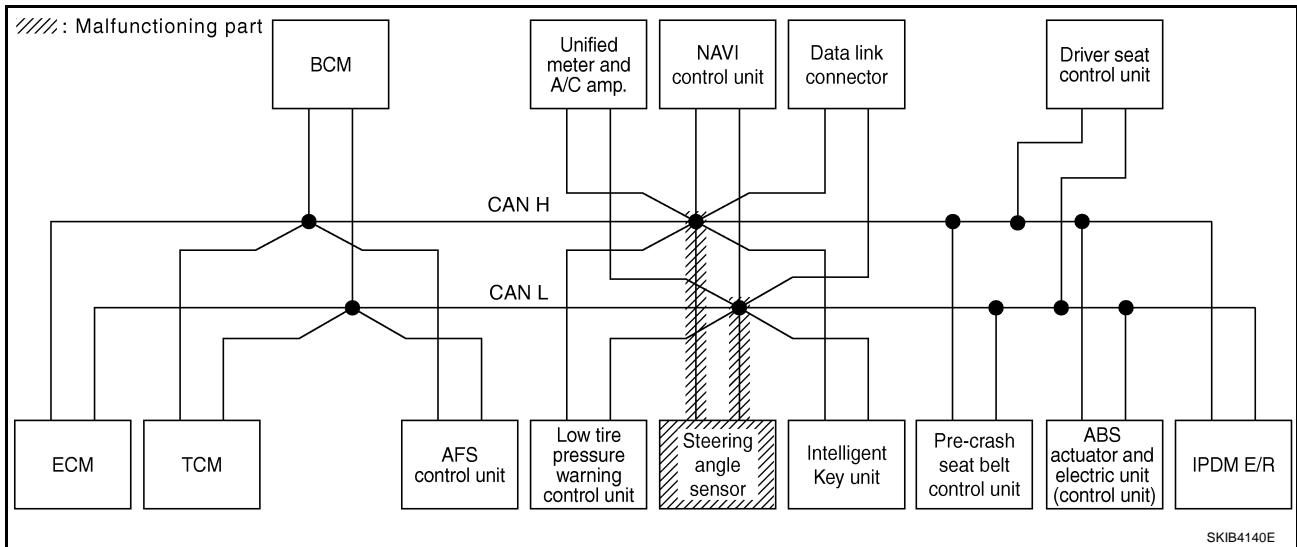
[CAN]

## Case 10

Check steering angle sensor circuit. Refer to [LAN-211, "Steering Angle Sensor Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8409E



SKIB4140E

# CAN SYSTEM (TYPE 4)

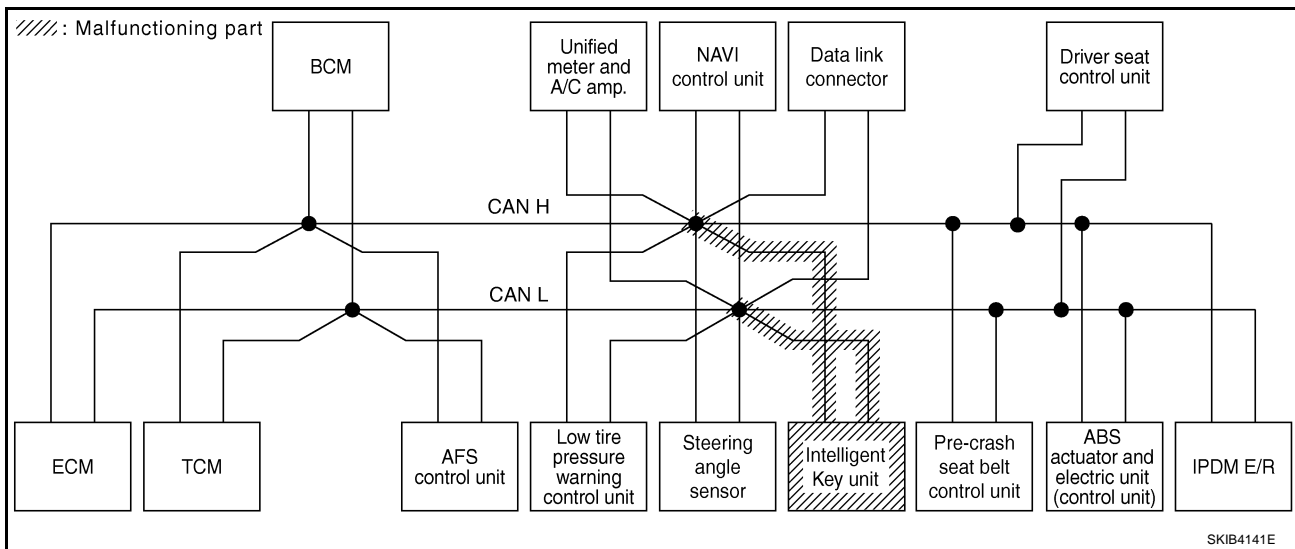
[CAN]

## Case 11

Check Intelligent Key unit circuit. Refer to [LAN-211, "Intelligent Key Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8410E



SKIB4141E



# CAN SYSTEM (TYPE 4)

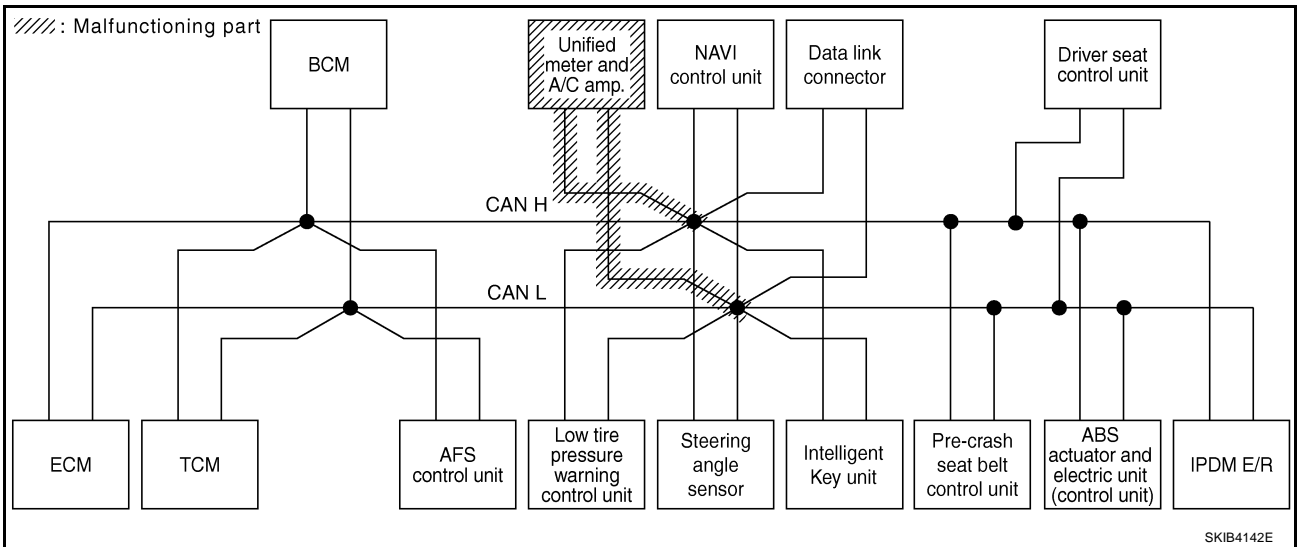
[CAN]

## Case 12

Check unified meter and A/C amp. circuit. Refer to [LAN-212, "Unified Meter and A/C Amp. Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8411E



SKIB4142E

# CAN SYSTEM (TYPE 4)

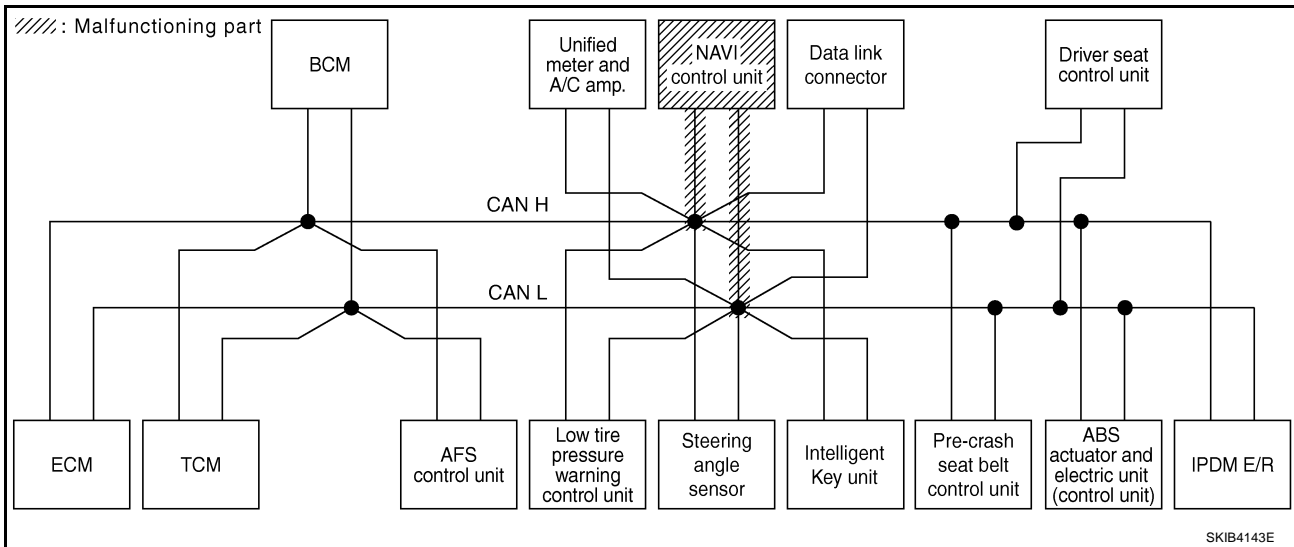
[CAN]

## Case 13

Check NAVI control unit circuit. Refer to [LAN-212, "NAVI Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	✓	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	✓	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8412E



SKIB4143E

# CAN SYSTEM (TYPE 4)

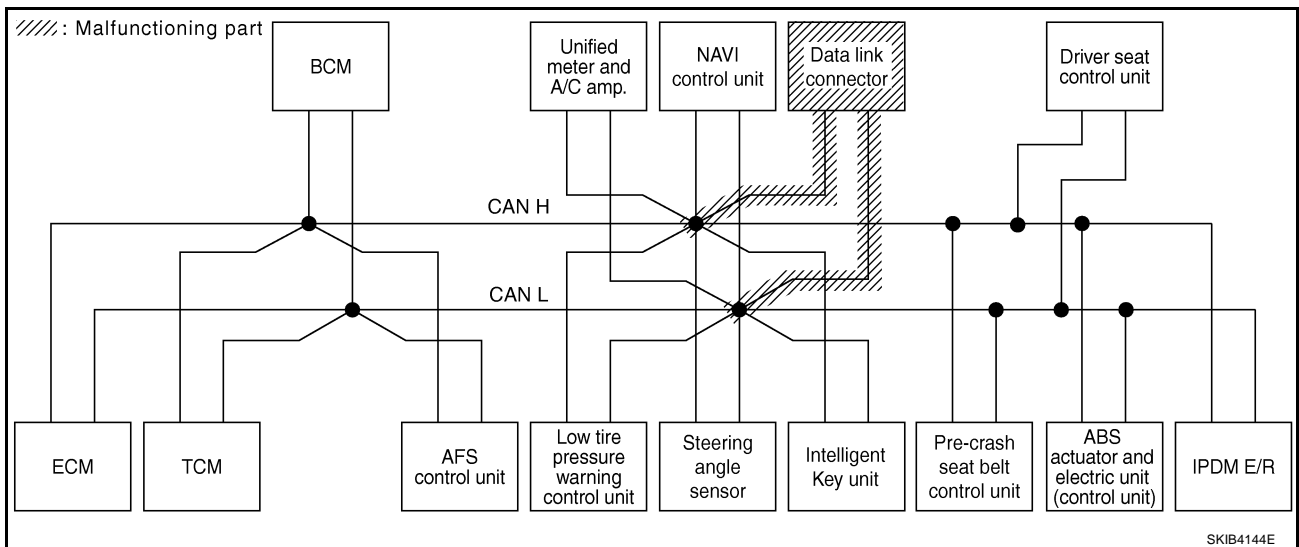
[CAN]

## Case 14

Check data link connector circuit. Refer to [LAN-213, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication ✓	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8413E



SKIB4144E

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# CAN SYSTEM (TYPE 4)

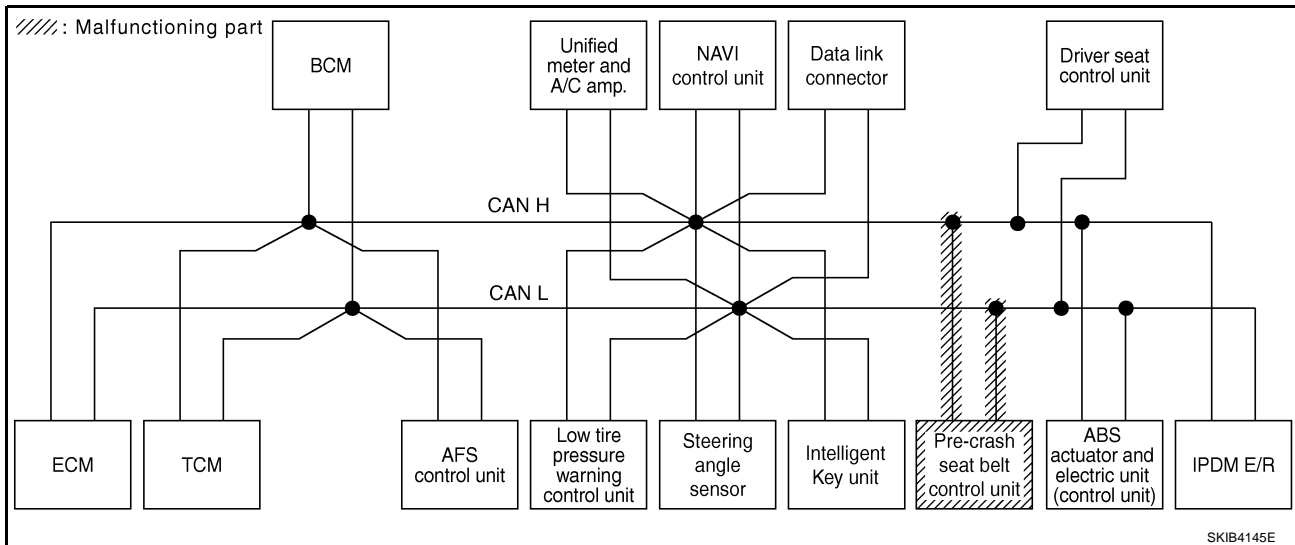
[CAN]

## Case 15

Check pre-crash seat belt control unit circuit. Refer to [LAN-213, "Pre-Crash Seat Belt Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	✓	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8414E



SKIB4145E

# CAN SYSTEM (TYPE 4)

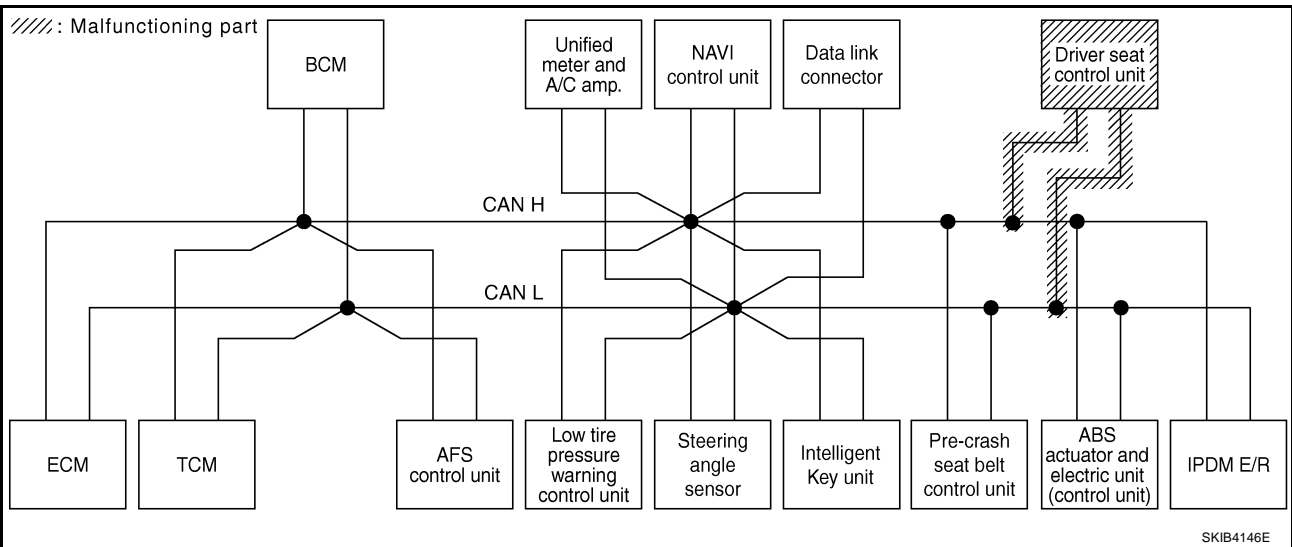
[CAN]

## Case 16

Check driver seat control unit circuit. Refer to [LAN-214, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8415E



SKIB4146E

# CAN SYSTEM (TYPE 4)

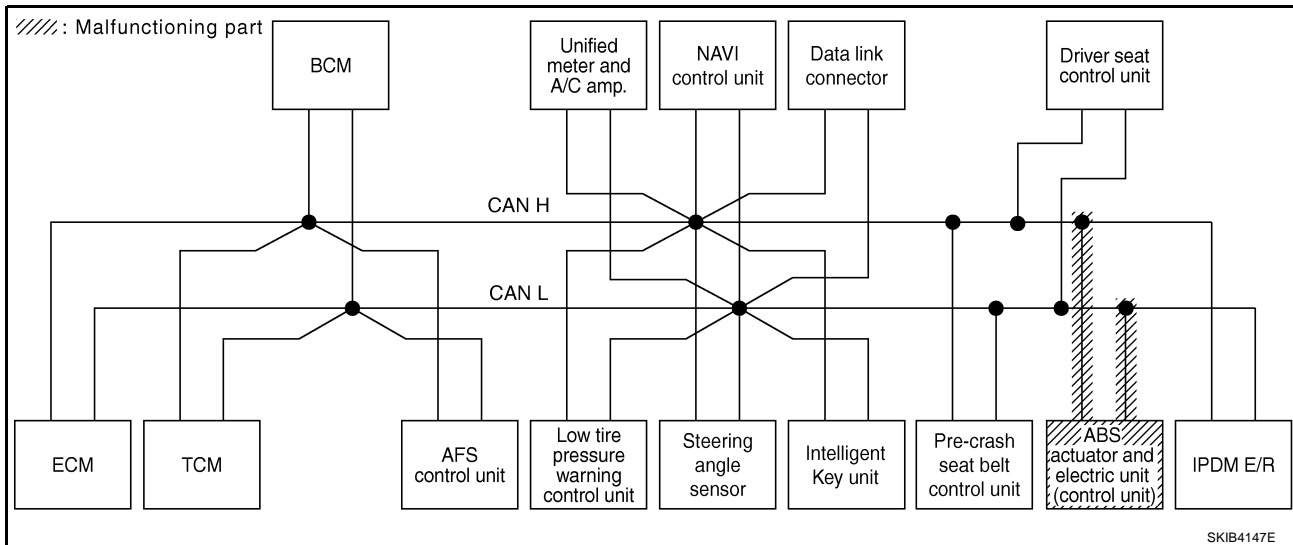
[CAN]

## Case 17

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-214, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB416E



# CAN SYSTEM (TYPE 4)

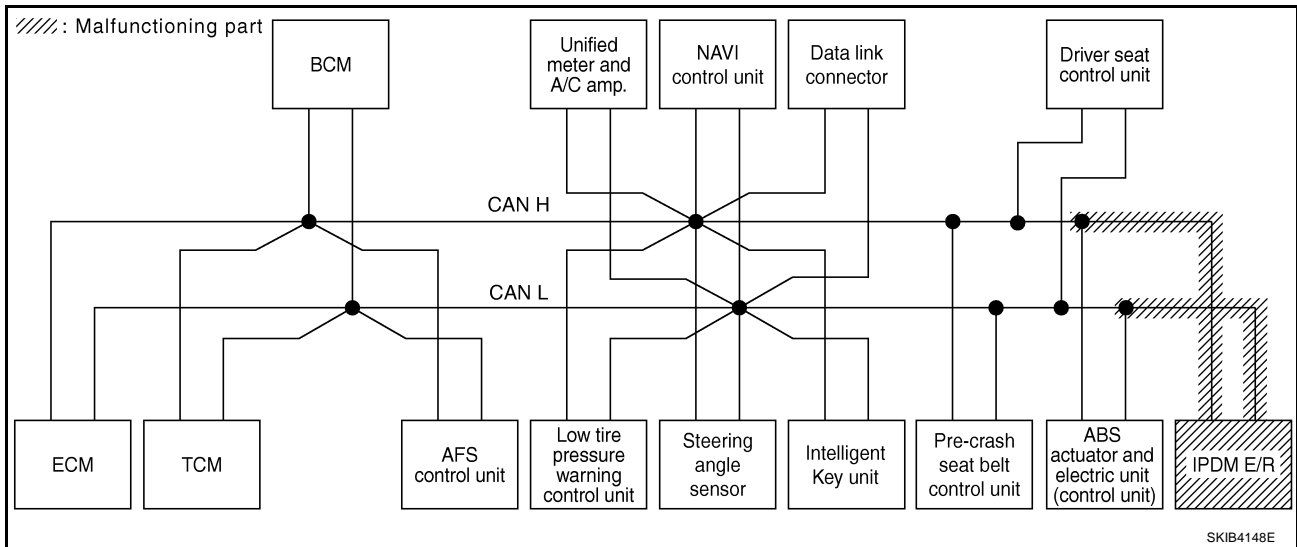
[CAN]

## Case 18

Check IPDM E/R circuit. Refer to [LAN-215, "IPDM E/R Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS					
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS							
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	✓	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8417E



SKIB4148E

# CAN SYSTEM (TYPE 4)

[CAN]

## Case 19

Check CAN communication circuit. Refer to [LAN-216, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8418E

## Case 20

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-223, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8419E



## Case 21

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-223, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8420E

## Inspection Between TCM and Data Link Connector Circuit

NKS003ZV

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

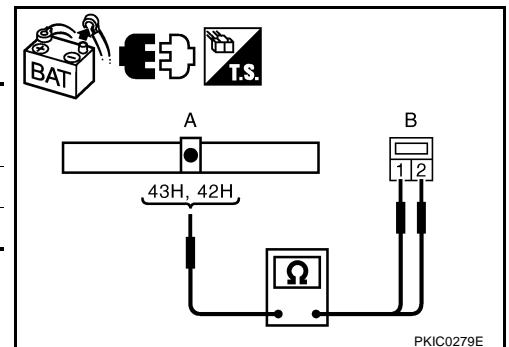
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.  
 NG >> Repair harness.



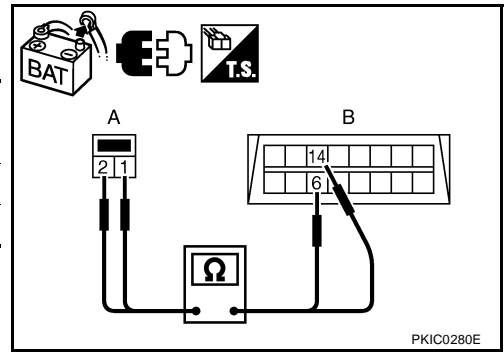
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit

NKS003ZW

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

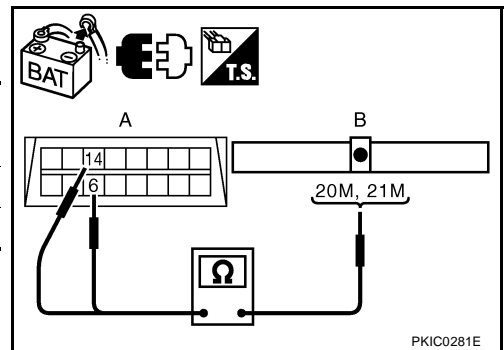
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



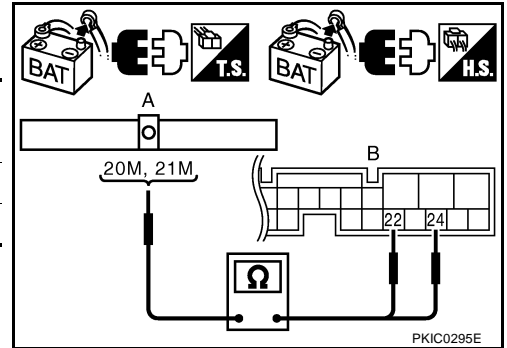
### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check continuity between harness connector (A) and pre-crash seat belt control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B142	24	Yes
	21M		22	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



### Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

NKS003ZX

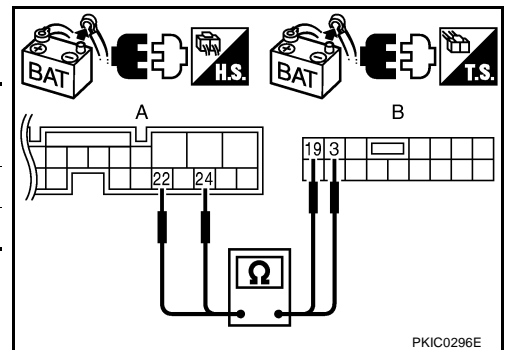
#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - Pre-crash seat belt control unit connector
  - harness connector B15
4. Check continuity between pre-crash seat belt control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B142	24	B15	3	Yes
	22		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



### Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS003ZY

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

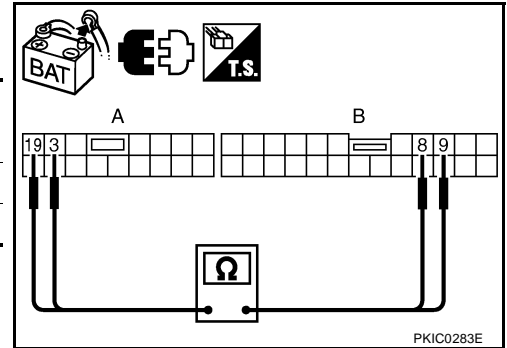
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

- OK >> GO TO 3.  
 NG >> Replace harness.



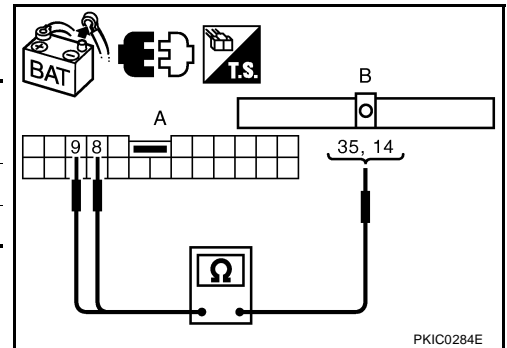
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).  
 NG >> Repair harness.



## ECM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

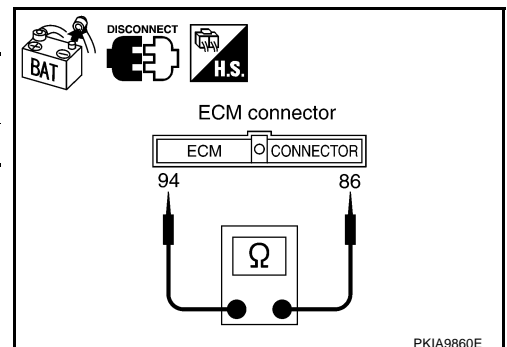
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

**OK or NG**

- OK >> Replace ECM.  
 NG >> Repair harness between ECM and A/T assembly.



**TCM Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

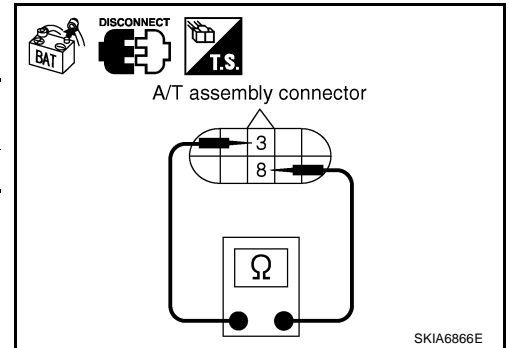
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.  
 NG >> Repair harness between A/T assembly and AFS control unit.

**AFS Control Unit Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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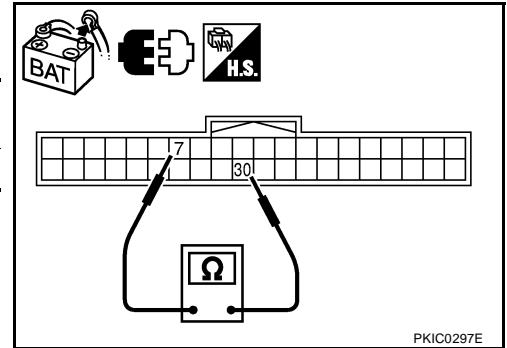
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
F110	30	7	54 – 66 Ω

**OK or NG**

- OK >> Replace AFS control unit.
- NG >> Repair harness between AFS control unit and BCM.



## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

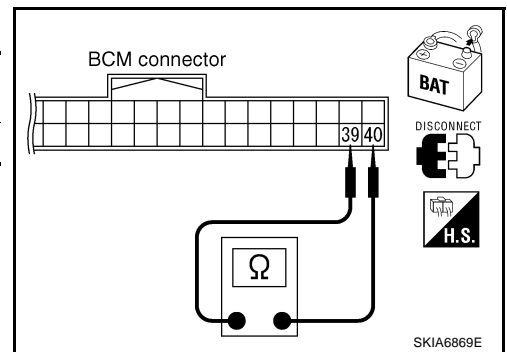
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

**OK or NG**

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#) .
- NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

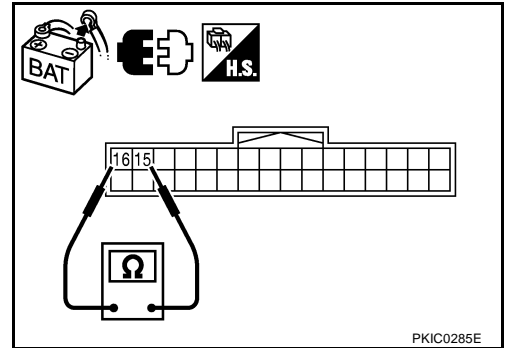
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

**OK or NG**

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



PKIC0285E

**Steering Angle Sensor Circuit Inspection**

NKS00404

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

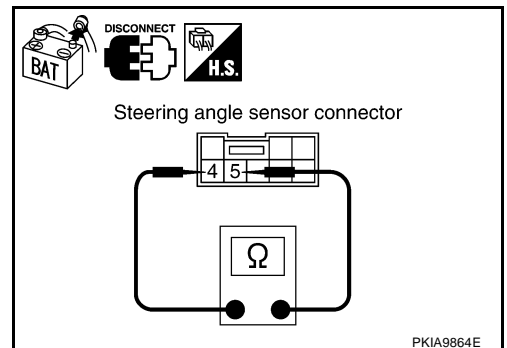
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	4	5	54 – 66 Ω

**OK or NG**

- OK >> Replace steering angle sensor.
- NG >> Repair harness between steering angle sensor and data link connector.



PKIA9864E

**Intelligent Key Unit Circuit Inspection**

NKS00405

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

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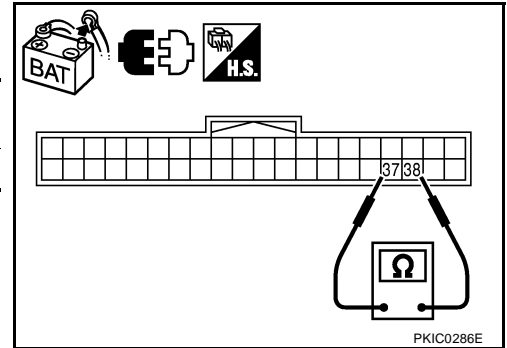
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
	38	37	
M32	38	37	54 – 66 Ω

### OK or NG

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS00406

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

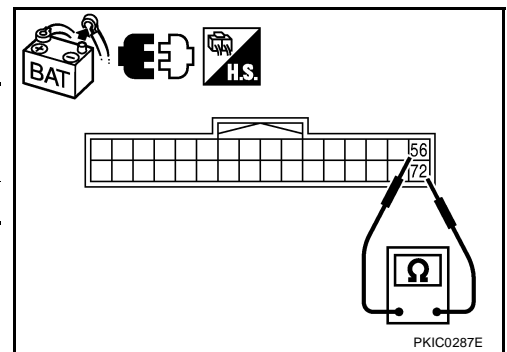
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
	56	72	
M65	56	72	54 – 66 Ω

### OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS00407

## NAVI Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - NAVI control unit connector
  - Harness connector M216
  - Harness connector M53

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.



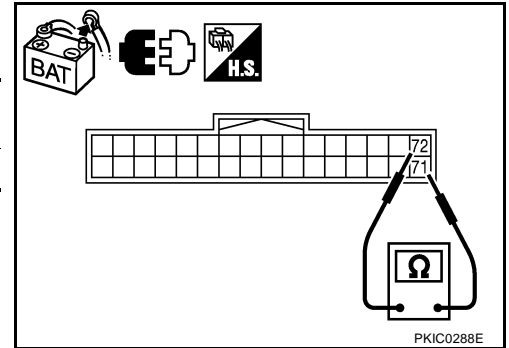
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check resistance between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Resistance (Approx.)
	71	72	
M210	71	72	54 – 66 Ω

### OK or NG

- OK >> Replace NAVI control unit.  
 NG >> Repair harness between NAVI control unit and data link connector.



NKS00408

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

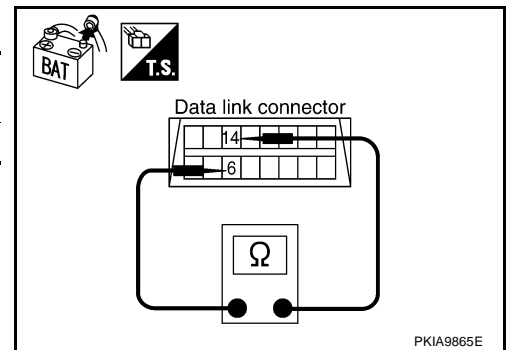
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
	6	14	
M60	6	14	54 – 66 Ω

### OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#) .  
 NG >> Repair harness between data link connector and harness connector M13.



NKS00409

## Pre-Crash Seat Belt Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of pre-crash seat belt control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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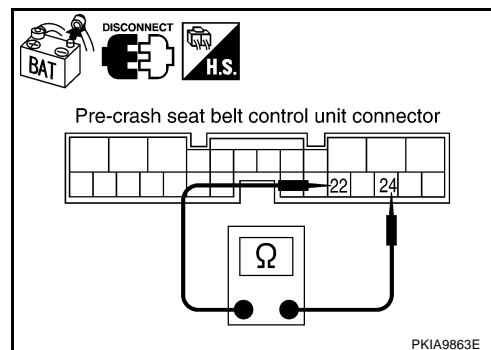
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check resistance between pre-crash seat belt control unit harness connector terminals.

Pre-crash seat belt control unit connector	Terminal		Resistance (Approx.)
B142	24	22	54 – 66 Ω

**OK or NG**

- OK >> Replace pre-crash seat belt control unit.
- NG >> Replace harness.



NKS0040A

## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

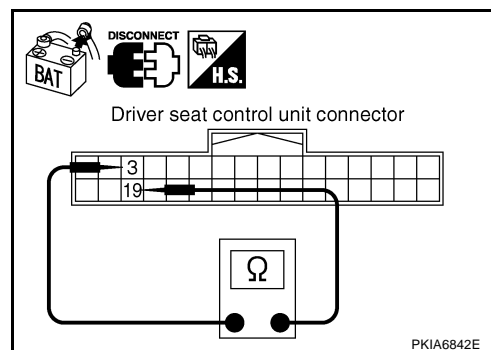
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

**OK or NG**

- OK >> Replace driver seat control unit.
- NG >> Replace harness.



NKS0040B

## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

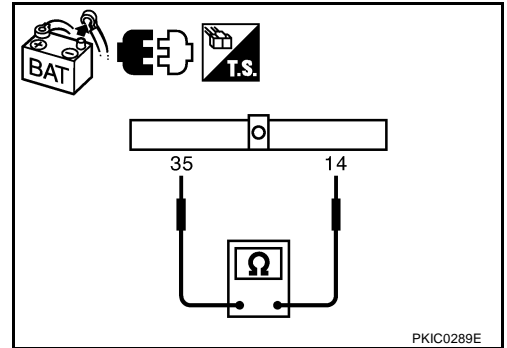
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
	35	14	
E30	35	14	54 – 66 Ω

**OK or NG**

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



## IPDM E/R Circuit Inspection

NKS0040C

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

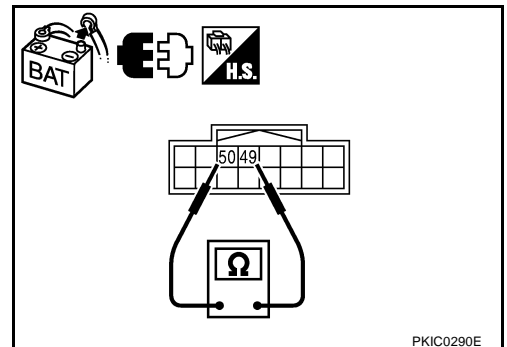
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
	49	50	
E9	49	50	108 – 132 Ω

**OK or NG**

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R and harness connector E105.



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## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
  - Between ECM and A/T assembly
  - Between ECM and AFS control unit
  - Between ECM and NAVI control unit
  - Between ECM and driver seat control unit
  - Between ECM and IPDM E/R

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

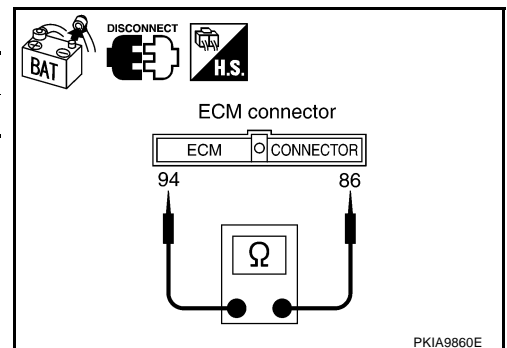
### 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



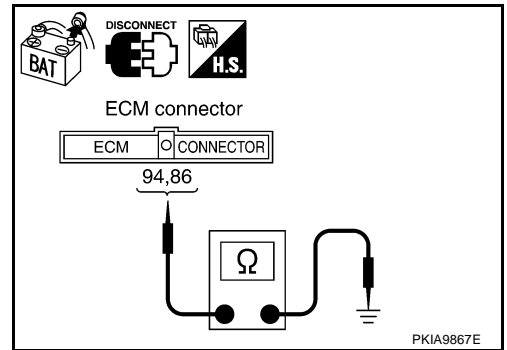
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		
	86	No	

**OK or NG**

- OK >> GO TO 4.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



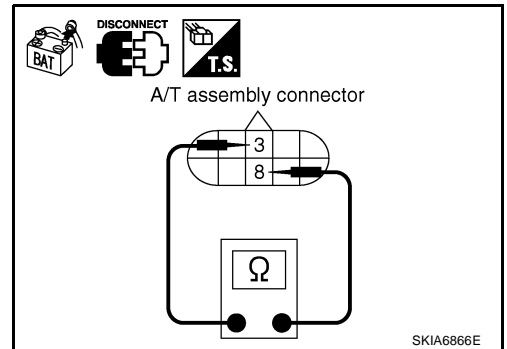
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.  
 NG >> Repair harness between A/T assembly and harness connector F102.



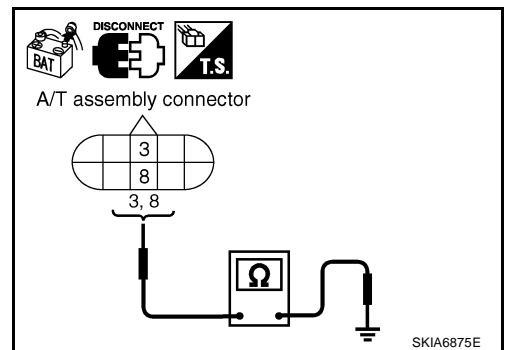
## 5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

**OK or NG**

- OK >> GO TO 6.  
 NG >> Repair harness between A/T assembly and harness connector F102.



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## 6. CHECK HARNESS FOR SHORT CIRCUIT

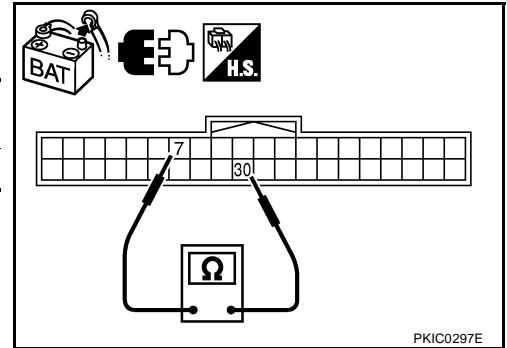
1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Continuity
F110	30	7	No

**OK or NG**

OK >> GO TO 7.

NG >> Repair harness between AFS control unit and harness connector F102.



## 7. CHECK HARNESS FOR SHORT CIRCUIT

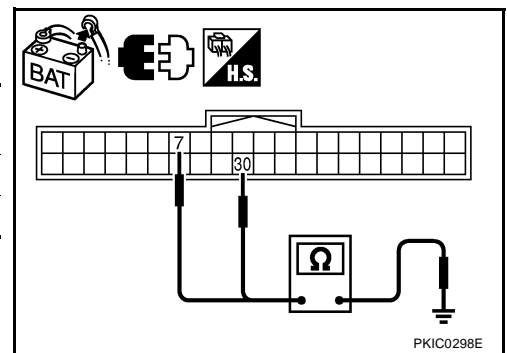
Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		
	7		No

**OK or NG**

OK >> GO TO 8.

NG >> Replace harness between AFS control unit and harness connector F102.



**8. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

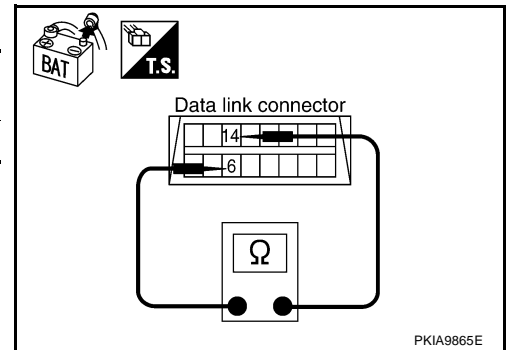
Data link connector	Terminal		Continuity
	6	14	
M60			No

**OK or NG**

OK >> GO TO 9.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



**9. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between data link connector terminals and ground.

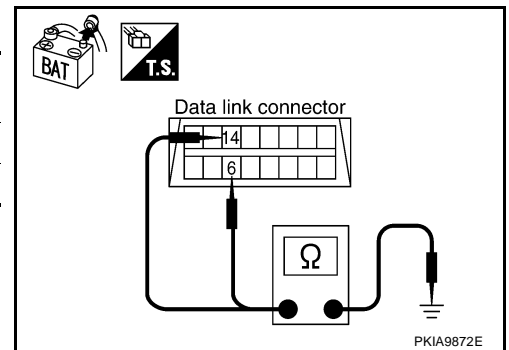
Data link connector	Terminal	Ground	Continuity
M60	6		No
	14		No

**OK or NG**

OK >> GO TO 10.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



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## 10. CHECK HARNESS FOR SHORT CIRCUIT

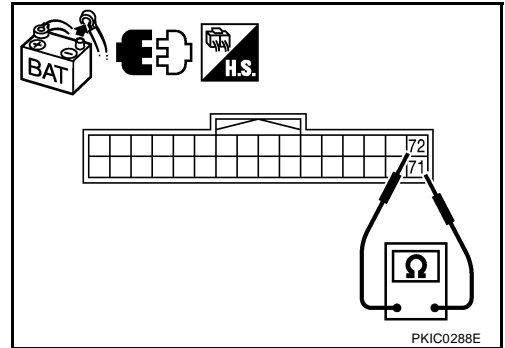
1. Disconnect NAVI control unit connector.
2. Check continuity between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Continuity
	71	72	
M210	71	72	No

**OK or NG**

OK >> GO TO 11.

NG >> Repair harness between NAVI control unit and harness connector M216.



## 11. CHECK HARNESS FOR SHORT CIRCUIT

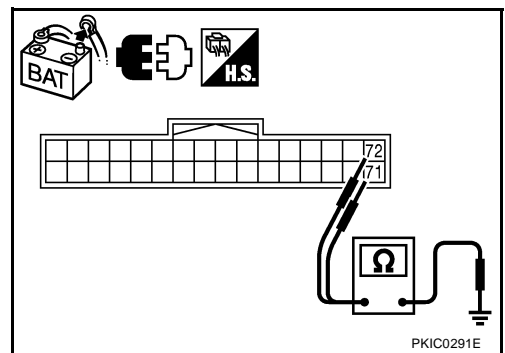
Check continuity between NAVI control unit harness connector terminals and ground.

NAVI control unit connector	Terminal	Ground	Continuity
	M210		71
	72	No	

**OK or NG**

OK >> GO TO 12.

NG >> Repair harness between NAVI control unit and harness connector M216.



## 12. CHECK HARNESS FOR SHORT CIRCUIT

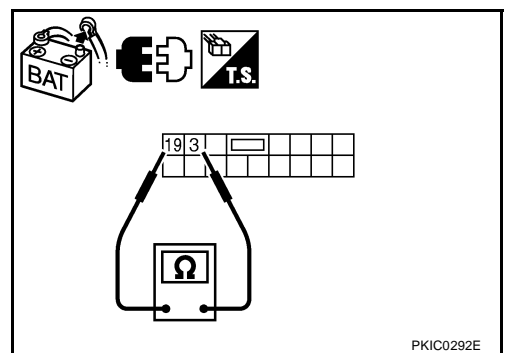
1. Disconnect following connectors.
  - Pre-crash seat belt control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
	3	19	
B15	3	19	No

**OK or NG**

OK >> GO TO 13.

NG >> Replace harness.





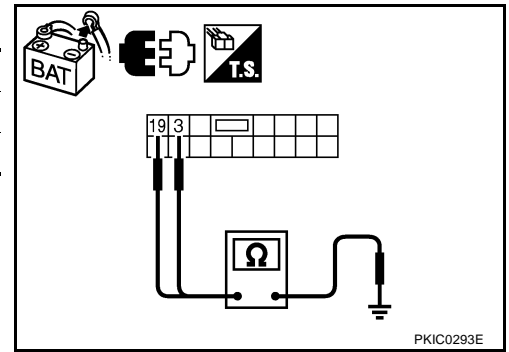
### 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19	No	

OK or NG

- OK >> GO TO 14.
- NG >> Replace harness.



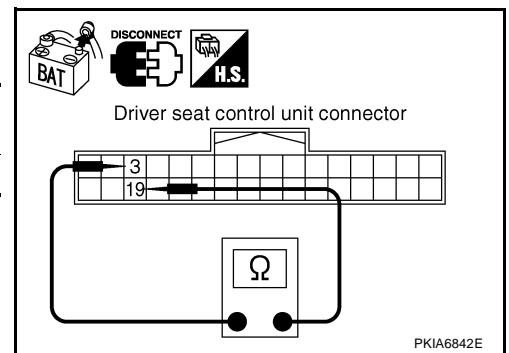
### 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal	Continuity
B204	3	No
	19	No

OK or NG

- OK >> GO TO 15.
- NG >> Repair harness between driver seat control unit and harness connector B202.



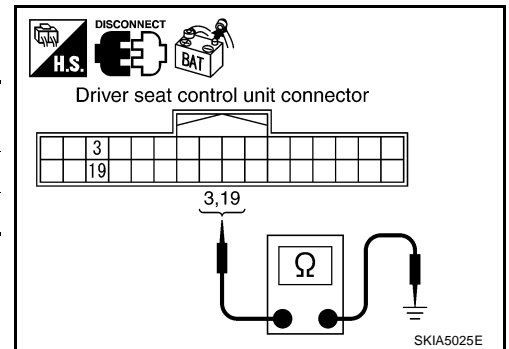
### 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

OK or NG

- OK >> GO TO 16.
- NG >> Repair harness between driver seat control unit and harness connector B202.



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## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

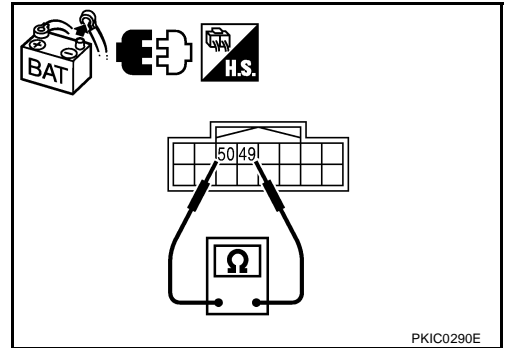
IPDM E/R connector	Terminal		Continuity
	49	50	
E9	49	50	No

### OK or NG

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

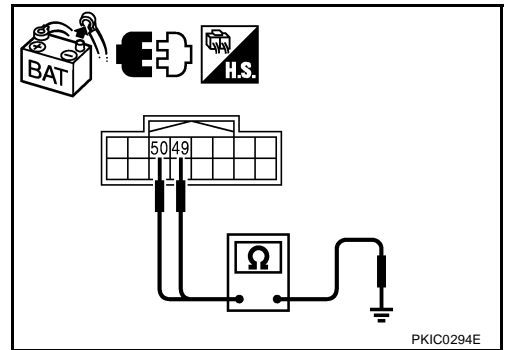
IPDM E/R connector	Terminal	Ground	Continuity
			No
E9	49	Ground	No
	50		No

### OK or NG

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

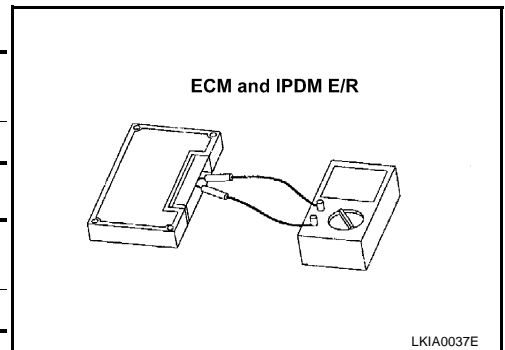
3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω

### OK or NG

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



## 19. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

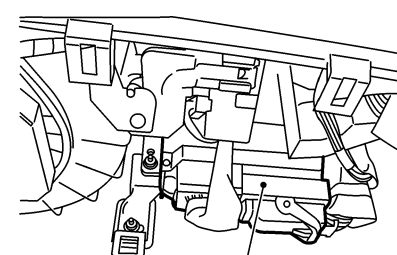
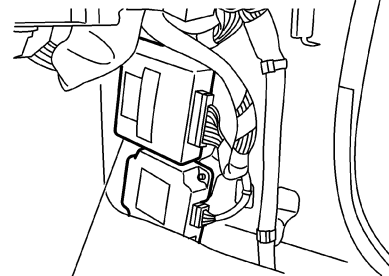
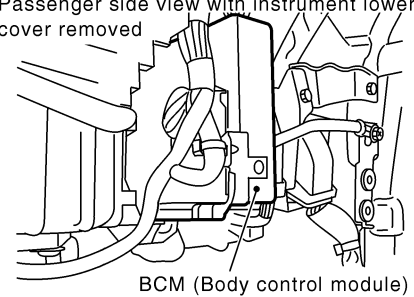
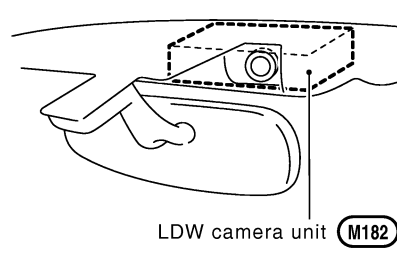
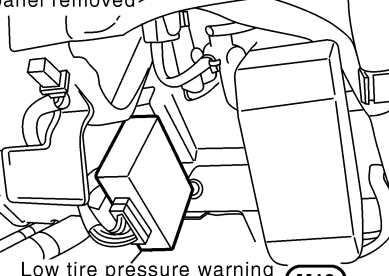
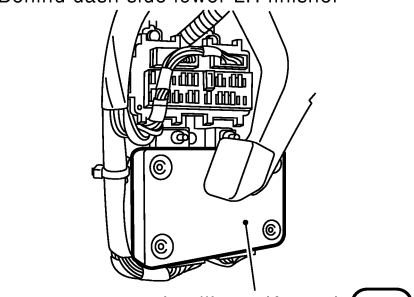
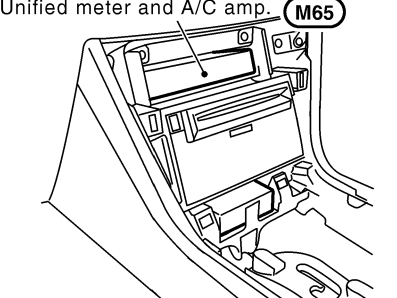
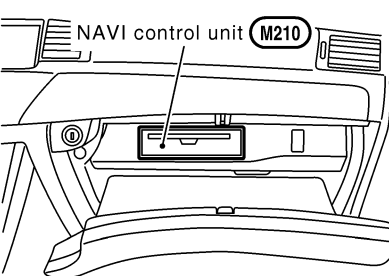
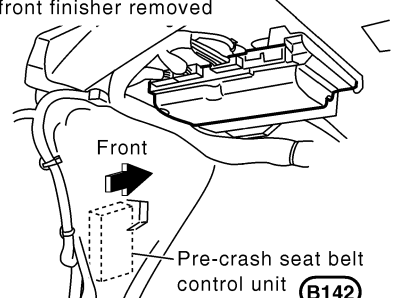
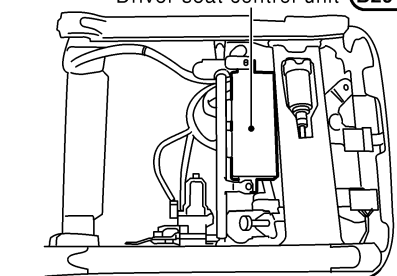
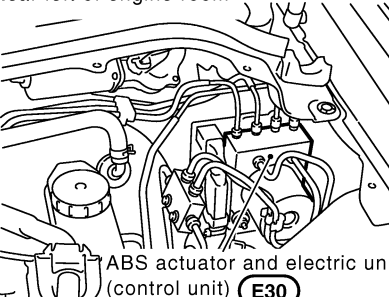
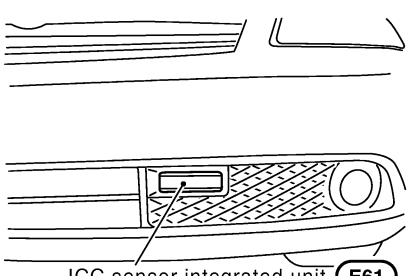
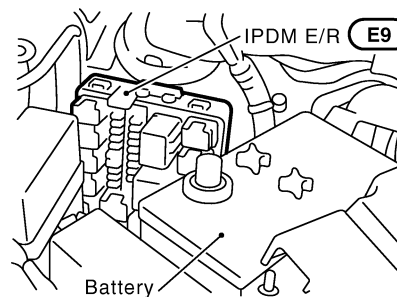
NKS0040E

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)

## CAN SYSTEM (TYPE 5)

### Component Parts and Harness Connector Location

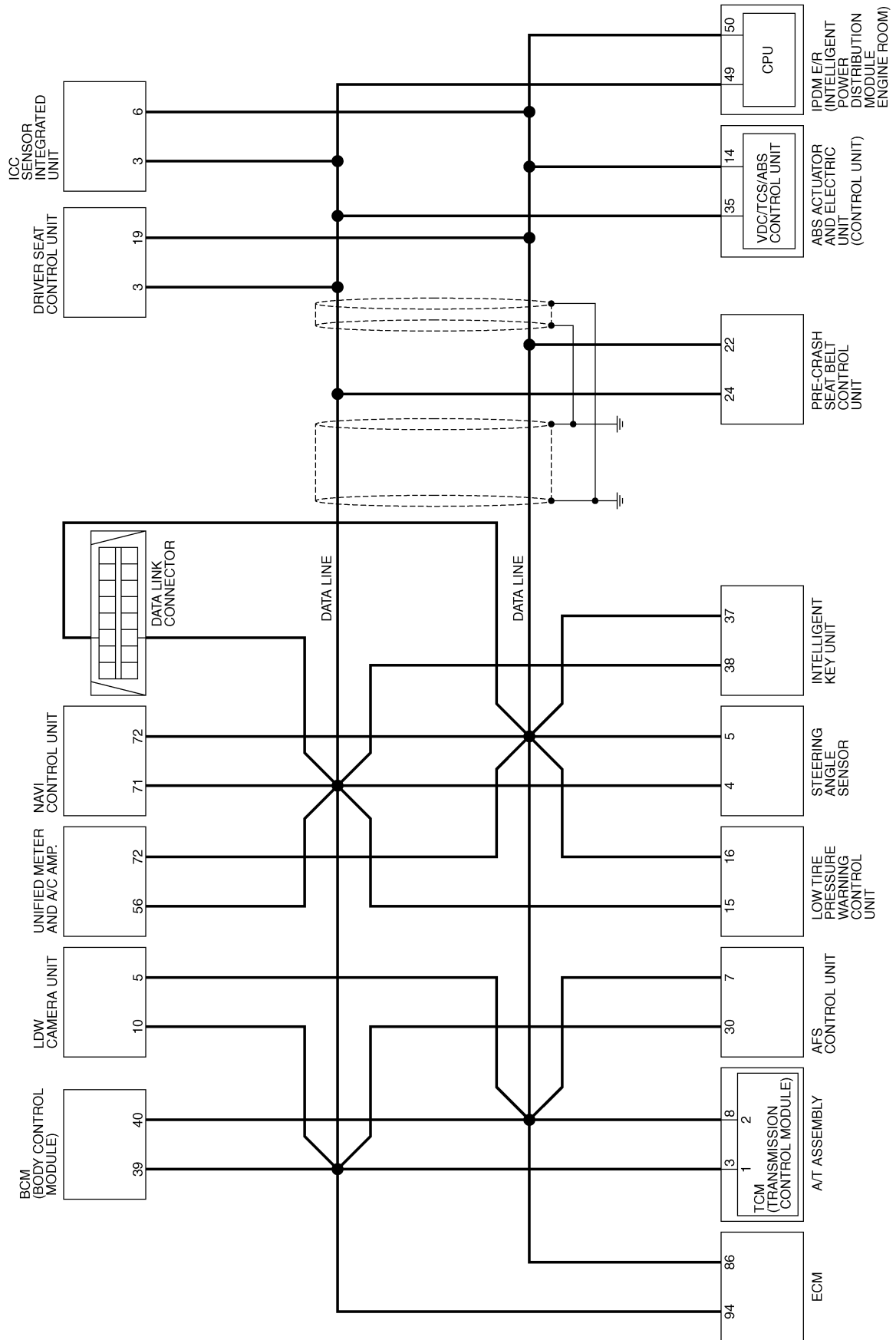
<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>LDW camera unit (M182)</p>  <p>LDW camera unit (M182)</p>	<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>
<p>View with cluster lid C removed Unified meter and A/C amp. (M65)</p>  <p>Unified meter and A/C amp. (M65)</p>	<p>Inside of glove box</p>  <p>NAVI control unit (M210)</p>	<p>View with trunk side LH finisher and front finisher removed</p>  <p>Pre-crash seat belt control unit (B142)</p>
<p>Under driver's seat Driver seat control unit (B204)</p>  <p>Driver seat control unit (B204)</p>	<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>Bumper LH</p>  <p>ICC sensor integrated unit (E61)</p>
<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>		

# CAN SYSTEM (TYPE 5)

[CAN]

## Schematic

NKS0040G



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# CAN SYSTEM (TYPE 5)

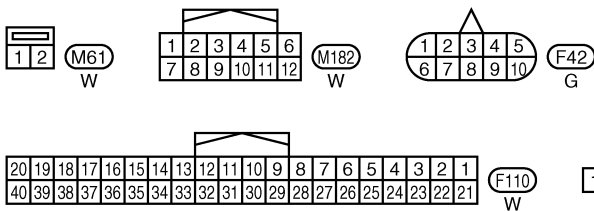
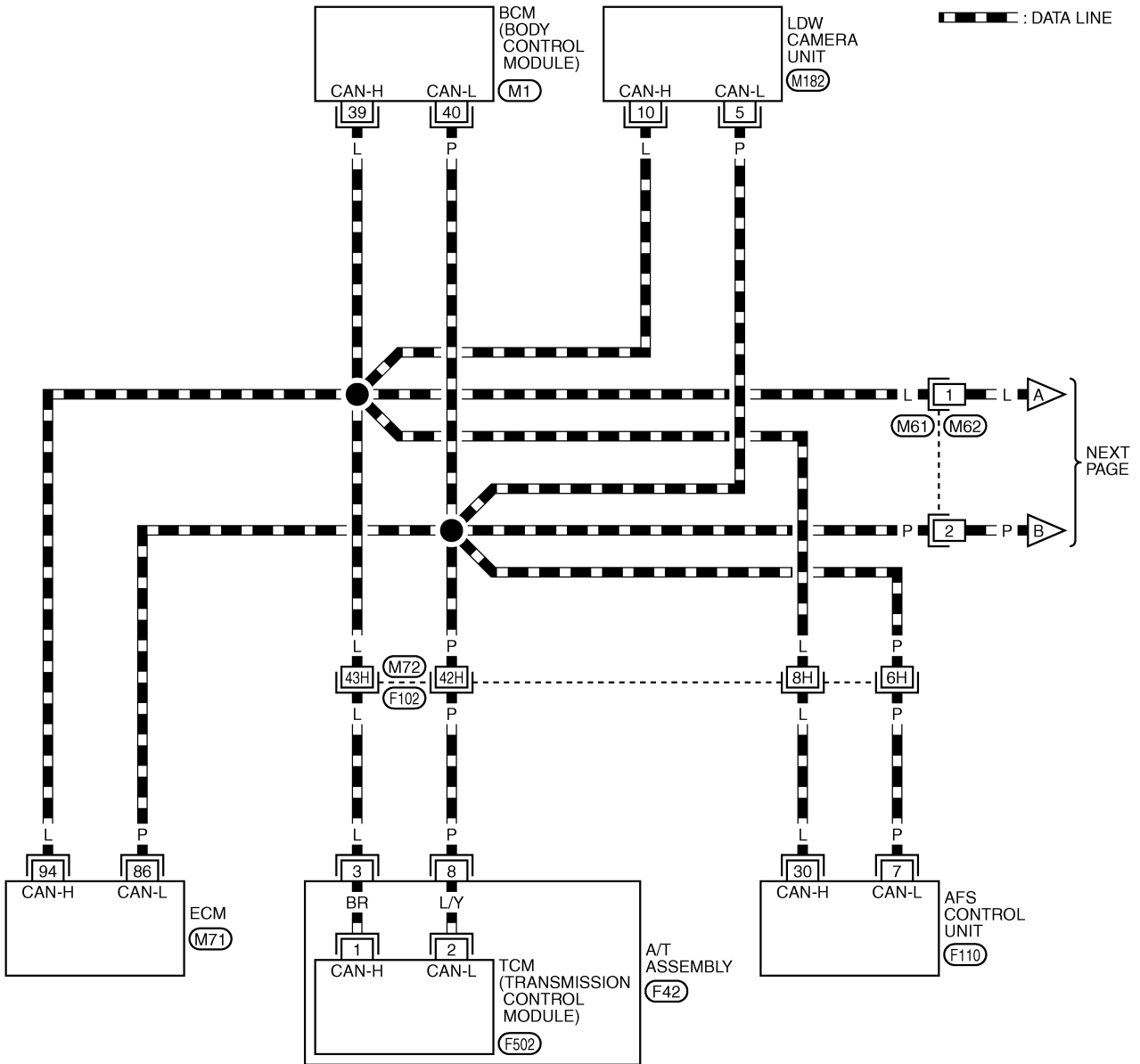
[CAN]

NKS0040H

## Wiring Diagram — CAN —

### LAN-CAN-15

▬ : DATA LINE



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

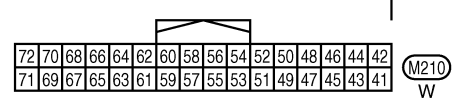
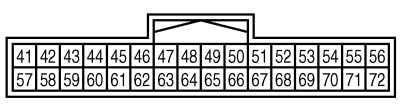
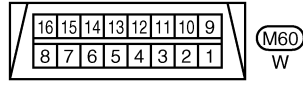
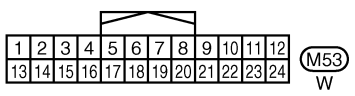
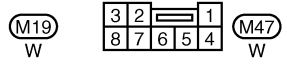
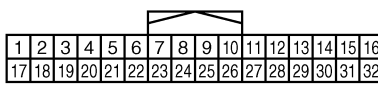
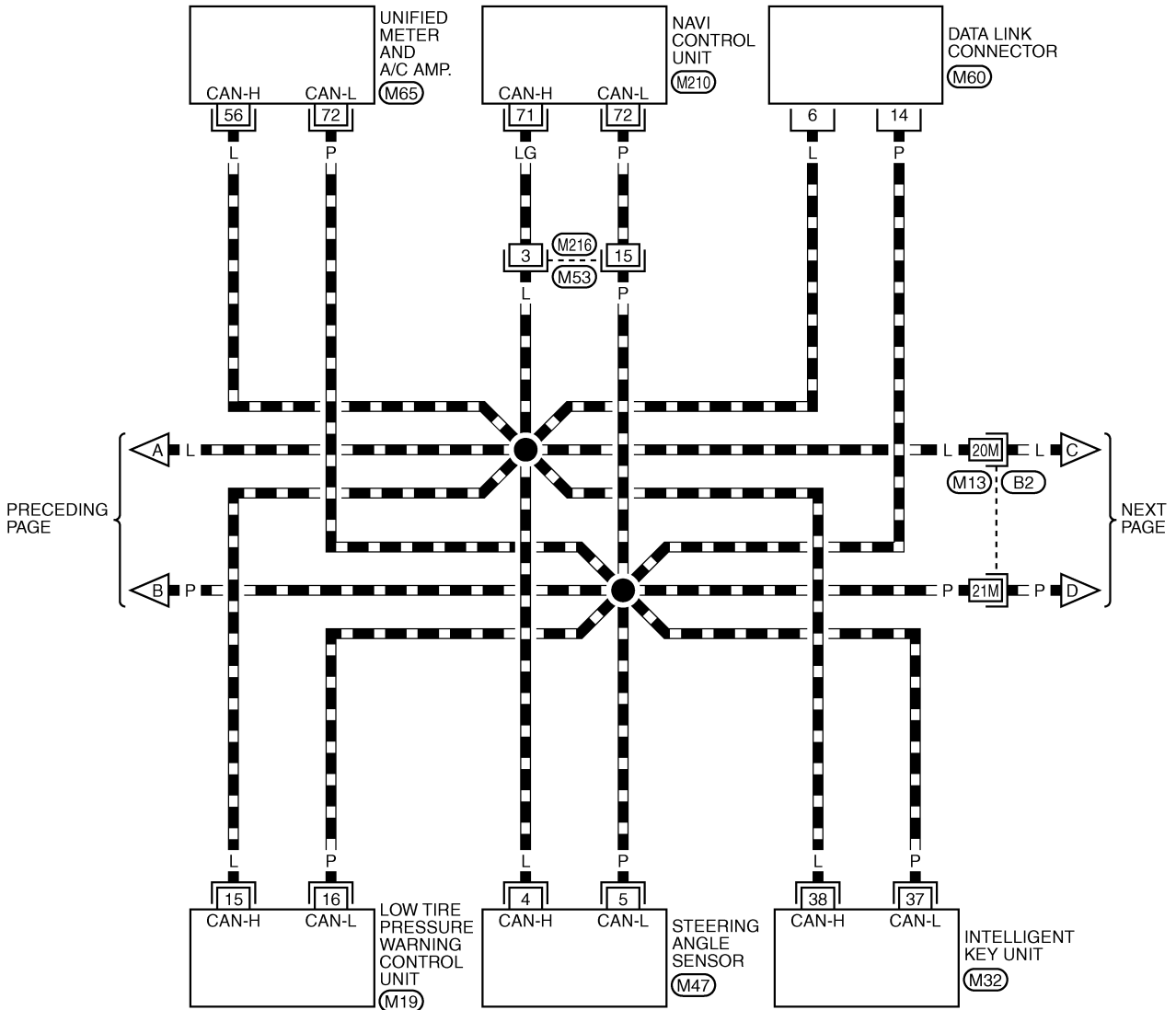
TKWT3266E

# CAN SYSTEM (TYPE 5)

[CAN]

## LAN-CAN-16

▬ : DATA LINE



REFER TO THE FOLLOWING.

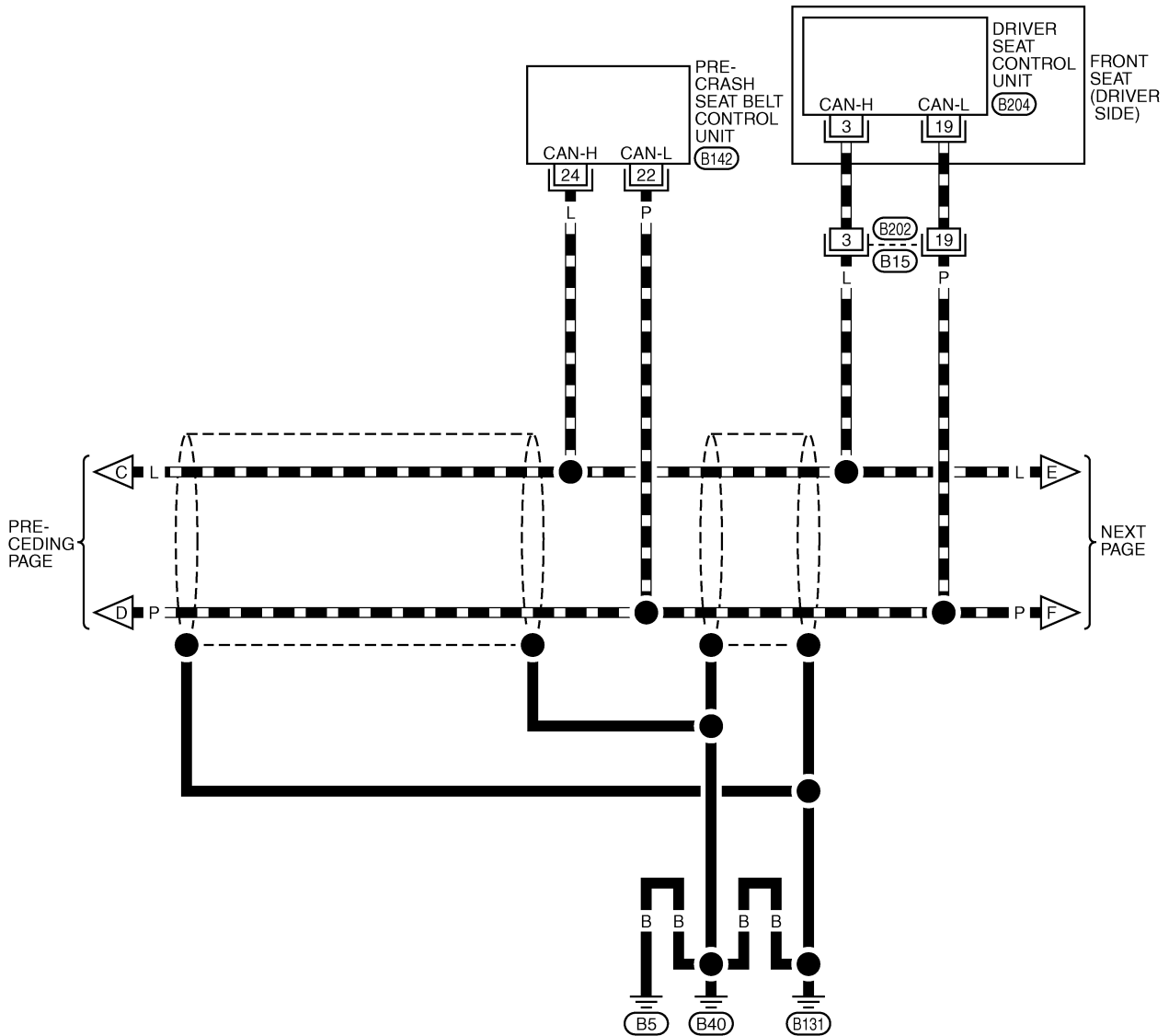
(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

TKWT3267E

## LAN-CAN-17

▬ : DATA LINE



19	3	1	17	40		
61	60	59	32	48	21	33

(B15)  
W

6	5	4	12	11	10	9	8	7	3	2	1		
26	25	24	23	22	21	20	19	18	17	16	15	14	13

(B142)  
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

(B204)  
W

**H.S.**

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3268E

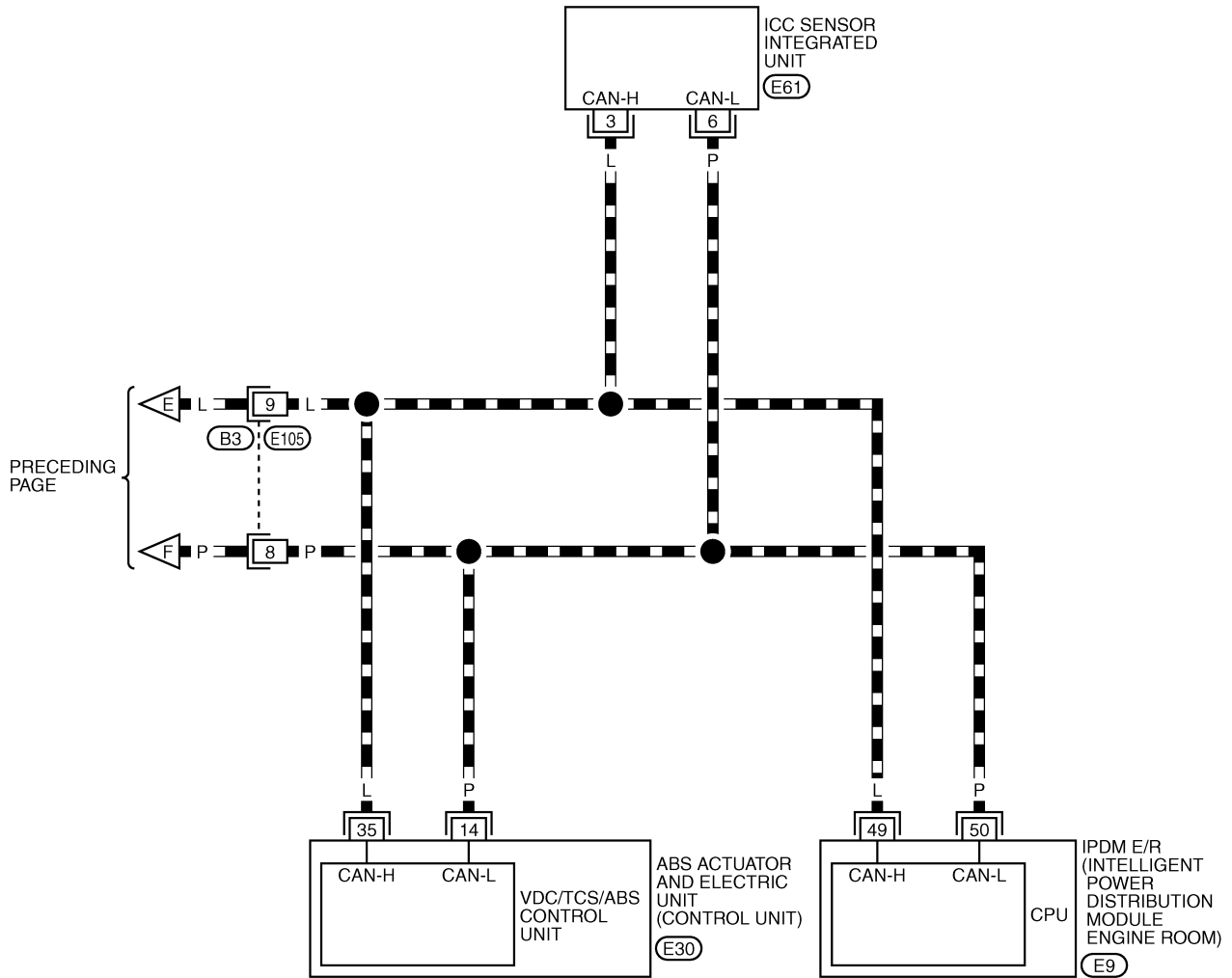


# CAN SYSTEM (TYPE 5)

[CAN]

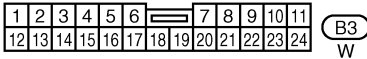
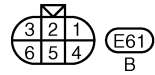
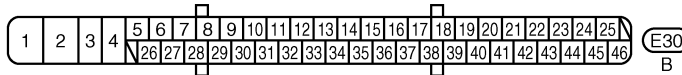
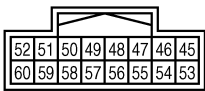
LAN-CAN-18

▬ : DATA LINE



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TKWT3269E

# CAN SYSTEM (TYPE 5)

[CAN]

NKS00401

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8421E

# CAN SYSTEM (TYPE 5)

[CAN]

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Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
LDW  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
PRECRASH SEATBELT  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
ICC  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9559E

# CAN SYSTEM (TYPE 5)

[CAN]

Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
LDW  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
PRECRASH SEATBELT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ICC  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9560E



# CAN SYSTEM (TYPE 5)

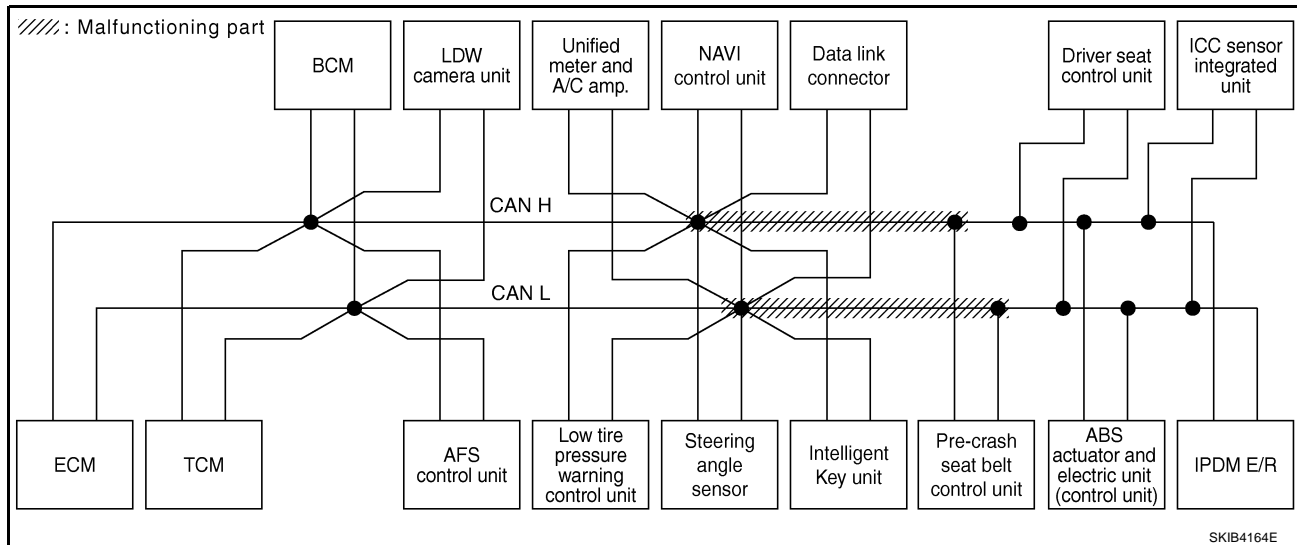
[CAN]

## Case 2

Check harness between data link connector and pre-crash seat belt control unit. Refer to [LAN-256, "Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS							
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1011)					
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD					IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	✓	UNKWN	✓	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1011)	
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	✓	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—		
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—	
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	✓	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	✓	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	✓	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	✓	UNKWN	✓	—	✓	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	✓	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	✓	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	✓	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	✓	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	✓	CAN COMM CIRCUIT (U1000)	—

PKIB423E



SKIB4164E

# CAN SYSTEM (TYPE 5)

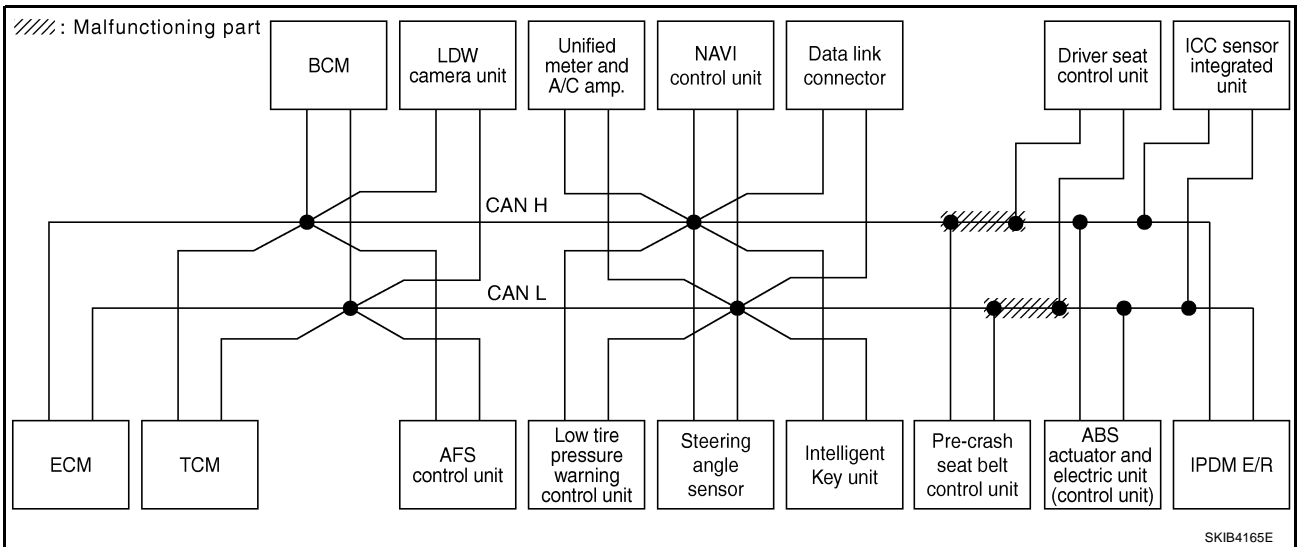
[CAN]

## Case 3

Check harness between pre-crash seat belt control unit and driver seat control unit. Refer to [LAN-257](#).  
"Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit" .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS					
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1011)			
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS					ICC/ e4WD	IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1011)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8424E



SKIB4165E

# CAN SYSTEM (TYPE 5)

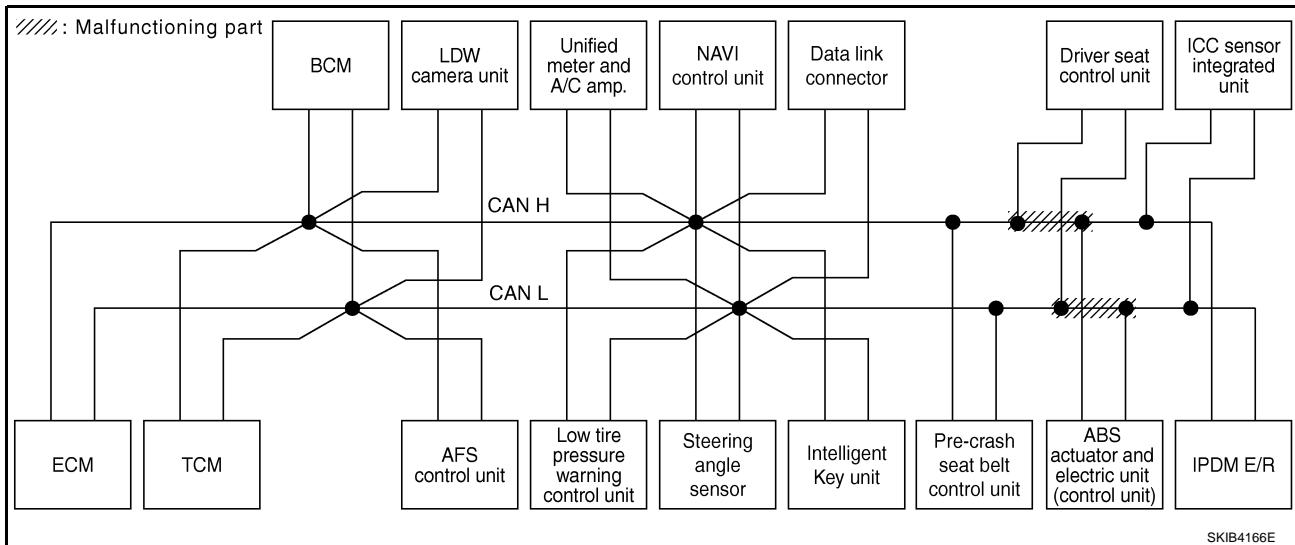
[CAN]

## Case 4

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-257, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS					
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1011)			
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD					IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	✓	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1011)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	✓	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	✓	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	✓	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	✓	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB425E



SKIB4166E



# CAN SYSTEM (TYPE 5)

[CAN]

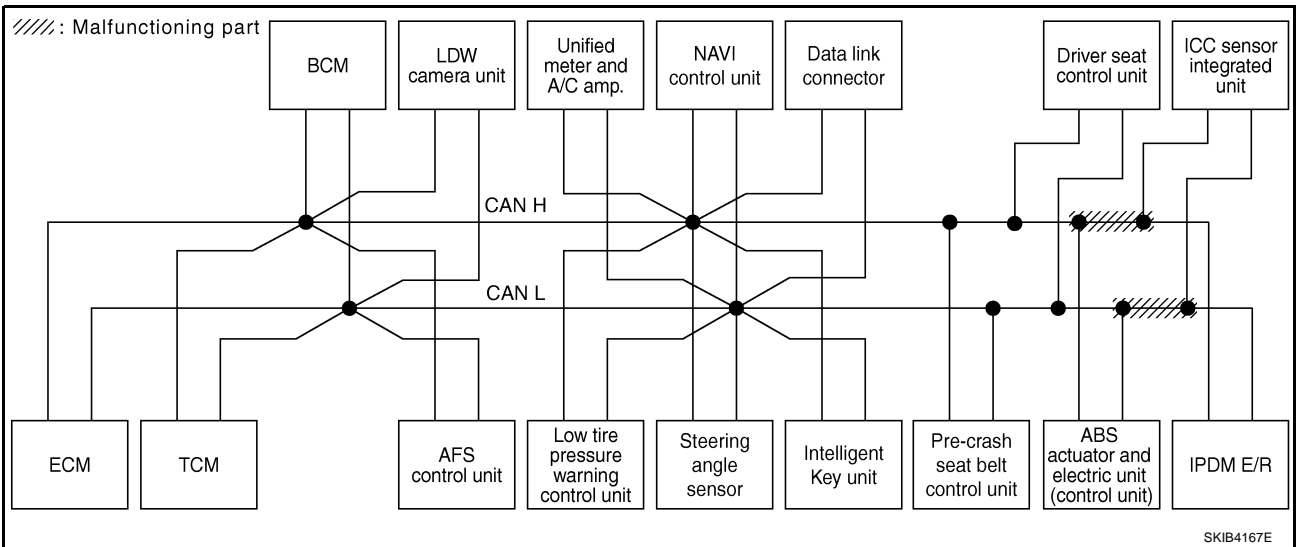
## Case 5

Check harness between ABS actuator and electric unit (control unit) and ICC sensor integrated unit. Refer to [LAN-258, "Inspection Between ABS Actuator and Electric Unit and ICC Sensor Integrated Unit Circuit"](#).

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SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1011)		
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS					ICC/ e4WD	IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1011)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	✓	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	✓	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	✓	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8426E



SKIB4167E

LAN

# CAN SYSTEM (TYPE 5)

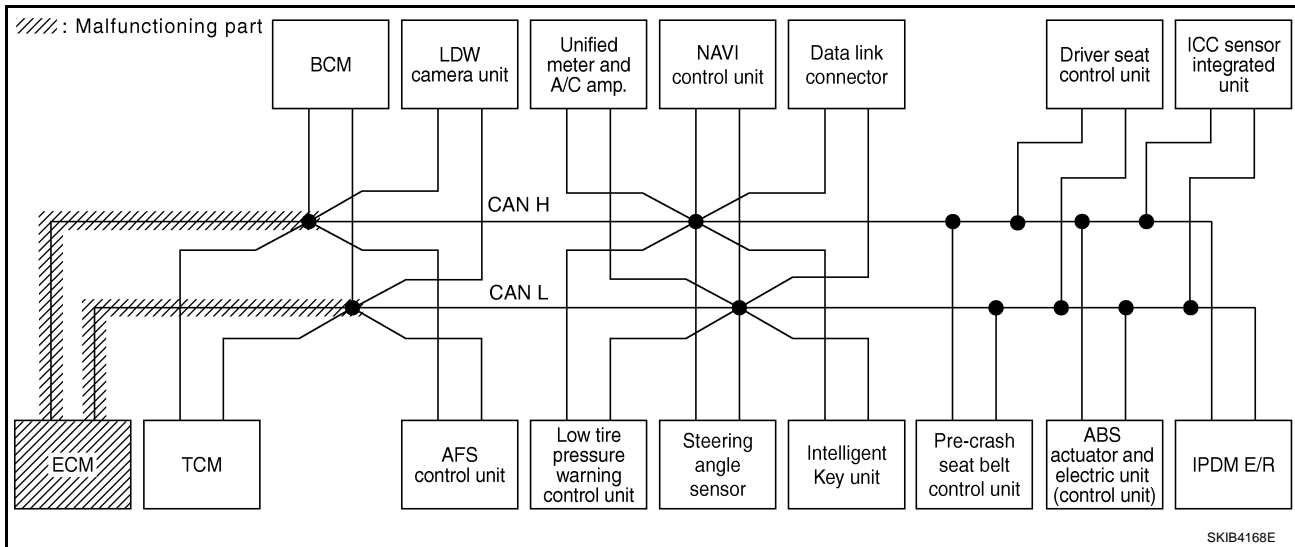
[CAN]

## Case 6

Check ECM circuit. Refer to [LAN-259, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R	
ENGINE	—	—	UNKW	—	UN✓	—	UN✓	—	—	—	—	UN✓	—	UN✓	UN✓	UN✓	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UN✓	—	—	—	—	—	—	—	UNKW	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UN✓	UNKW	—	—	—	UNKW	—	—	UNKW	—	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UN✓	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
LDW	No indication	—	—	UN✓	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UN✓	—	—	—	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UN✓	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UN✓	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UN✓	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	—	UN✓	UNKW	—	—	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UN✓	UNKW	—	—	—	UNKW	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
ICC	No indication	—	UNKW	UN✓	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKW	UN✓	—	—	UNKW	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB427E



SKIB4168E

# CAN SYSTEM (TYPE 5)

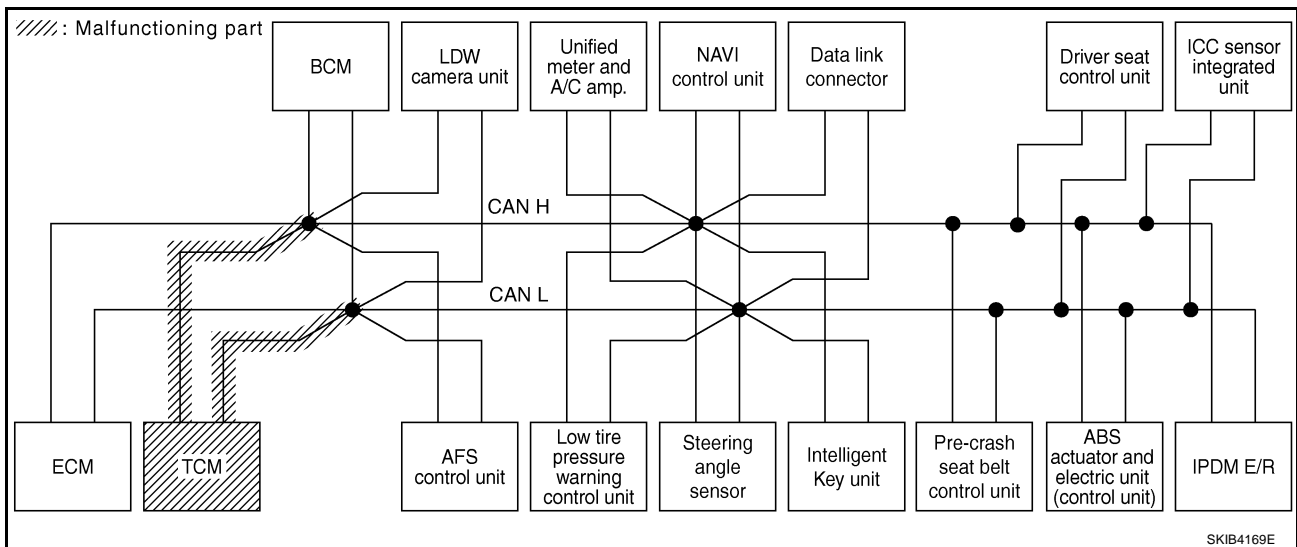
[CAN]

## Case 7

Check TCM circuit. Refer to [LAN-259, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTN													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD			IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8428E



SKIB4169E

# CAN SYSTEM (TYPE 5)

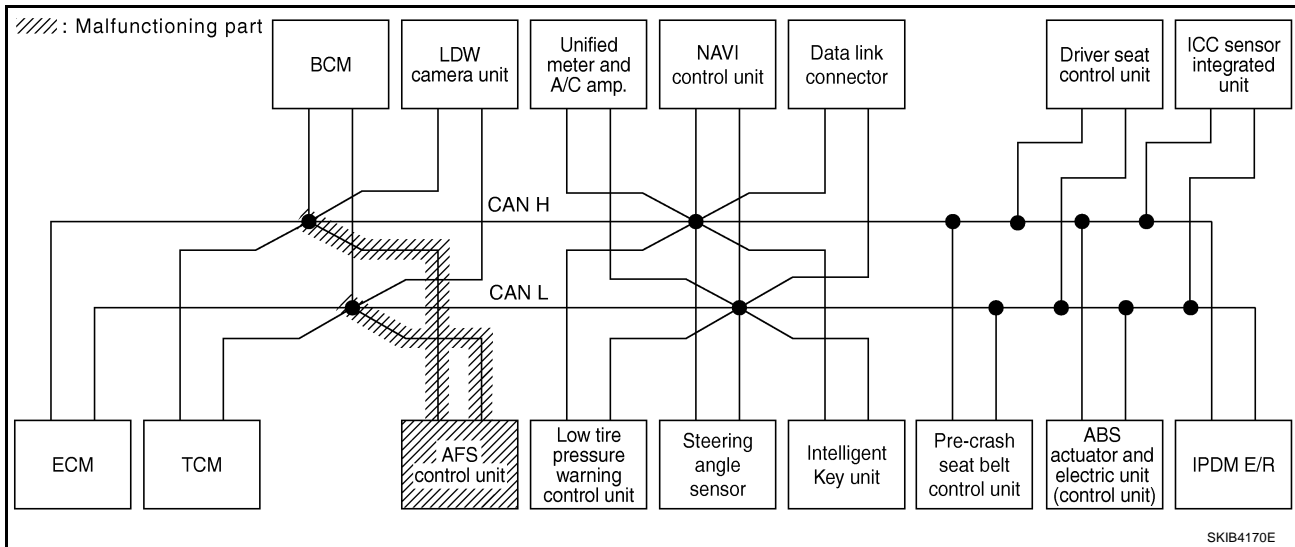
[CAN]

## Case 8

Check AFS control unit circuit. Refer to [LAN-260, "AFS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	✓ No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8429E



SKIB4170E

# CAN SYSTEM (TYPE 5)

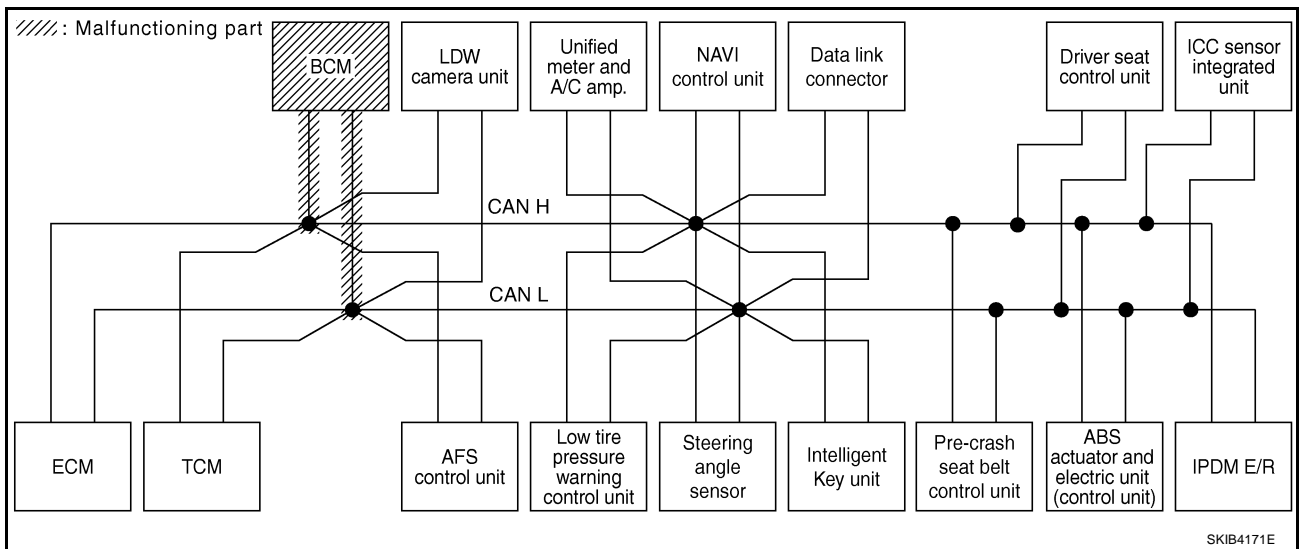
[CAN]

## Case 9

Check BCM circuit. Refer to [LAN-260, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8430E



SKIB4171E

# CAN SYSTEM (TYPE 5)

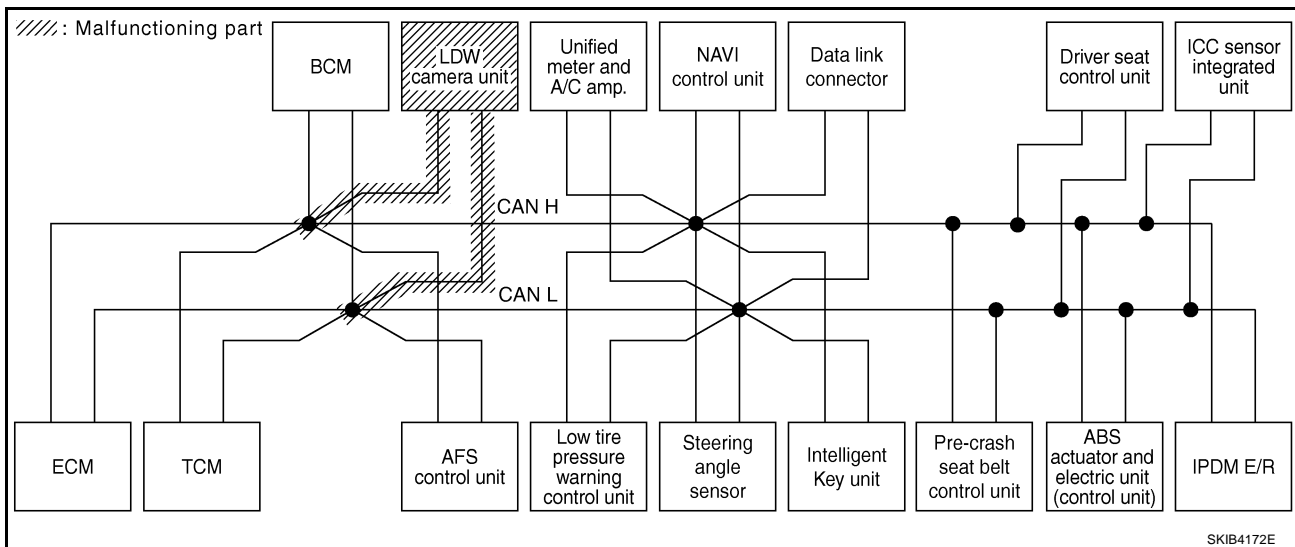
[CAN]

## Case 10

Check LDW camera unit circuit. Refer to [LAN-261, "LDW Camera Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB431E



SKIB4172E

# CAN SYSTEM (TYPE 5)

[CAN]

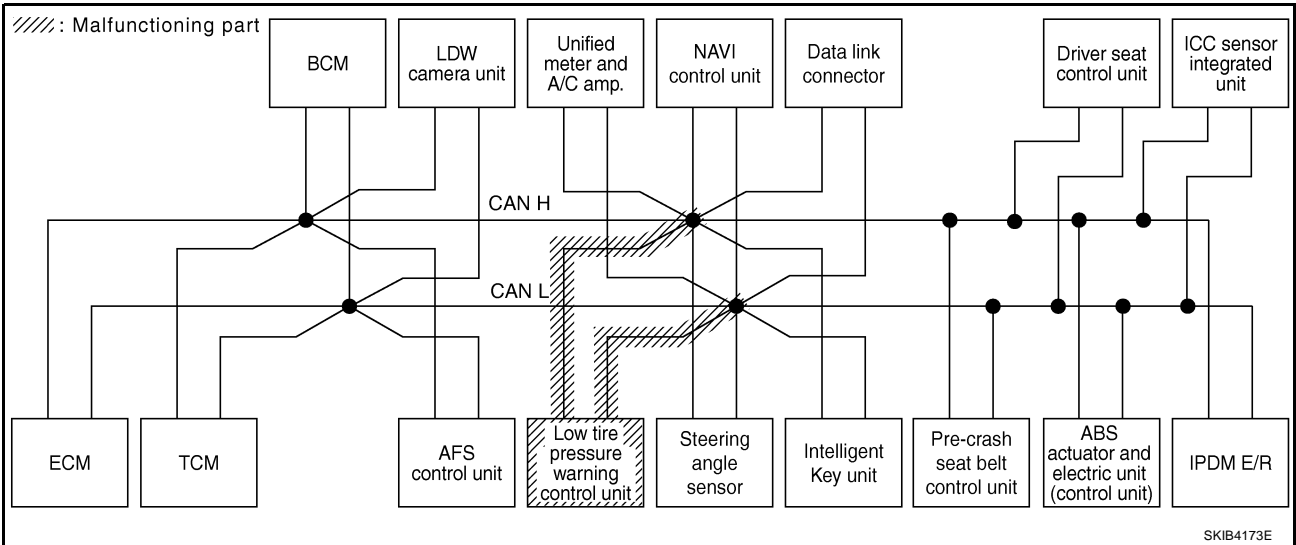
## Case 11

Check low tire pressure warning control unit circuit. Refer to [LAN-261, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

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SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8432E



SKIB4173E

LAN

# CAN SYSTEM (TYPE 5)

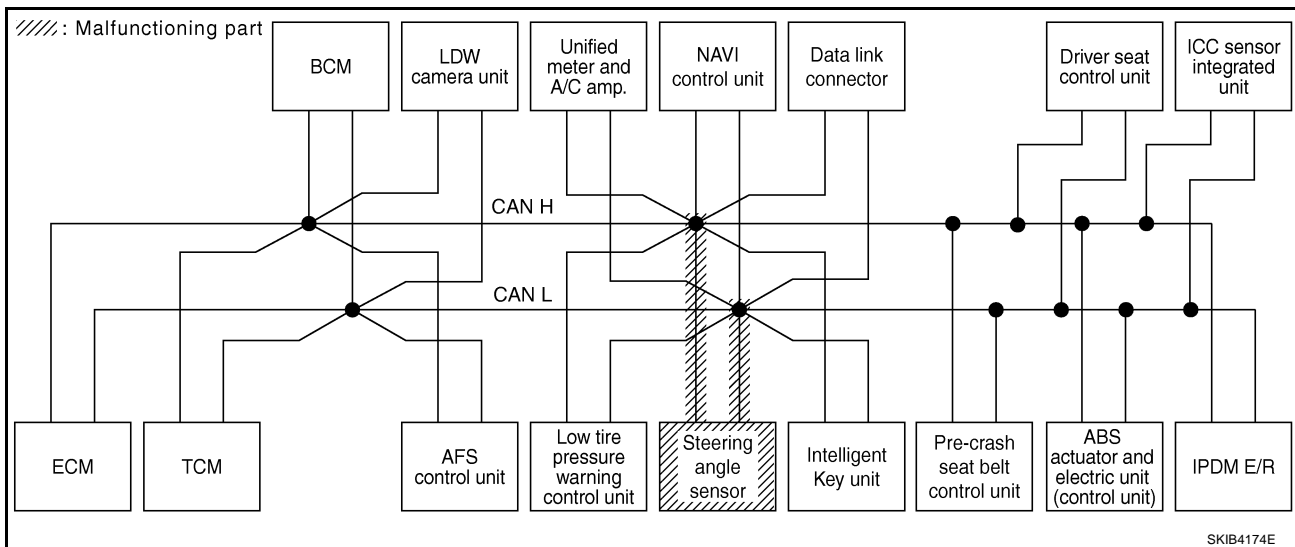
[CAN]

## Case 12

Check steering angle sensor circuit. Refer to [LAN-262, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8433E



SKIB4174E



# CAN SYSTEM (TYPE 5)

[CAN]

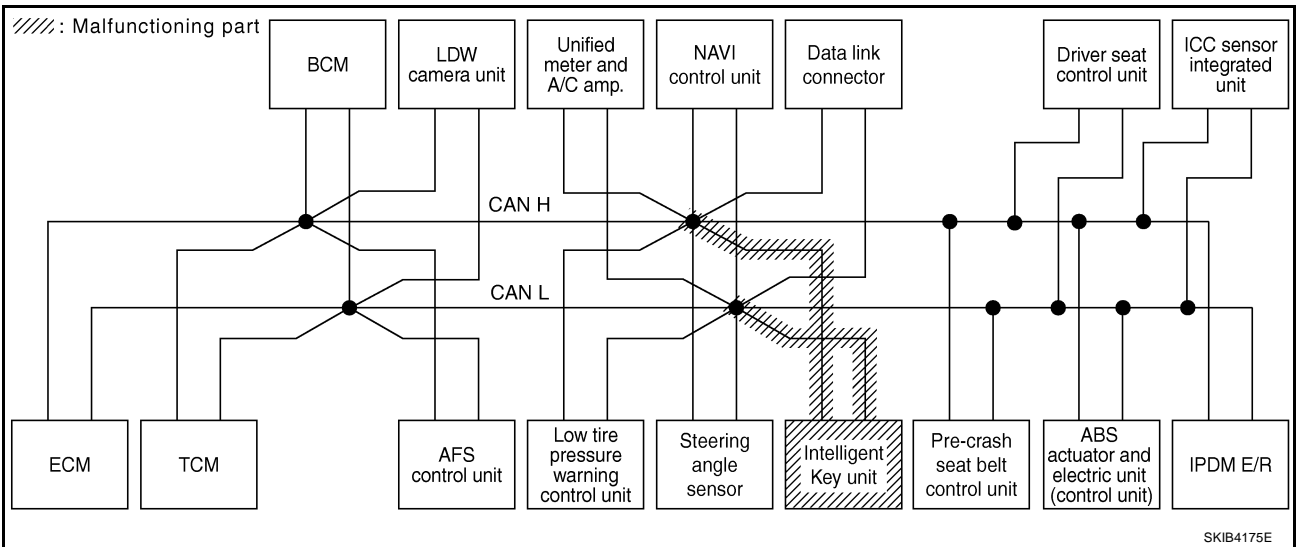
## Case 13

Check Intelligent Key unit circuit. Refer to [LAN-262, "Intelligent Key Unit Circuit Inspection"](#).

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M

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	✓	—	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8434E



SKIB4175E

LAN

# CAN SYSTEM (TYPE 5)

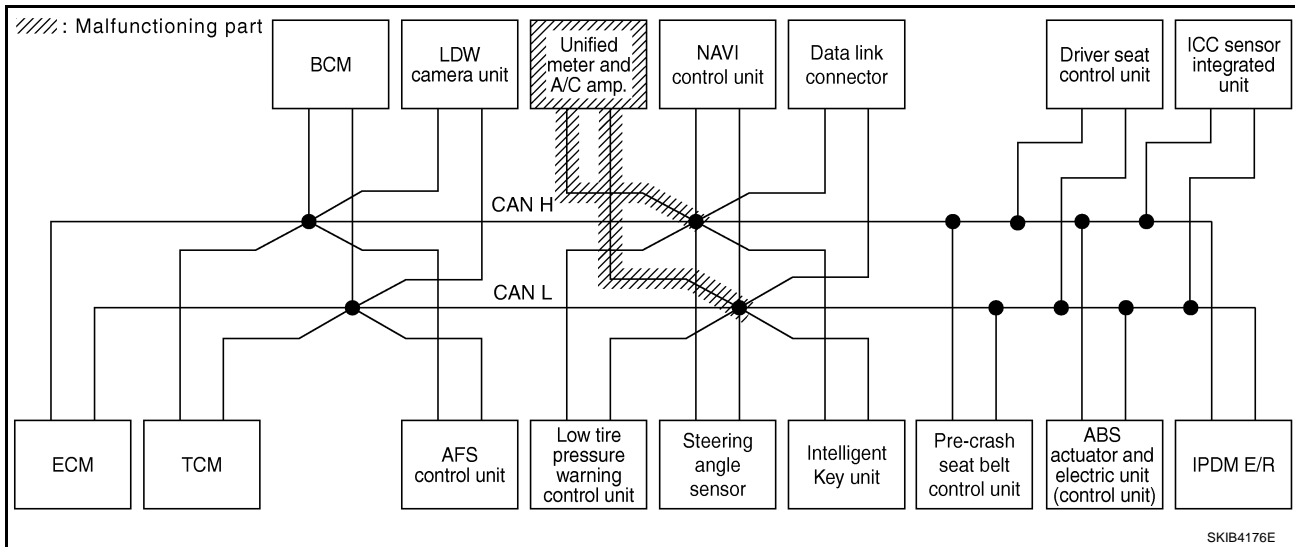
[CAN]

## Case 14

Check unified meter and A/C amp. circuit. Refer to [LAN-263, "Unified Meter and A/C Amp. Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
		Initial diagnosis	Transmit diagnosis	Receive diagnosis															
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB435E



SKIB4176E

# CAN SYSTEM (TYPE 5)

[CAN]

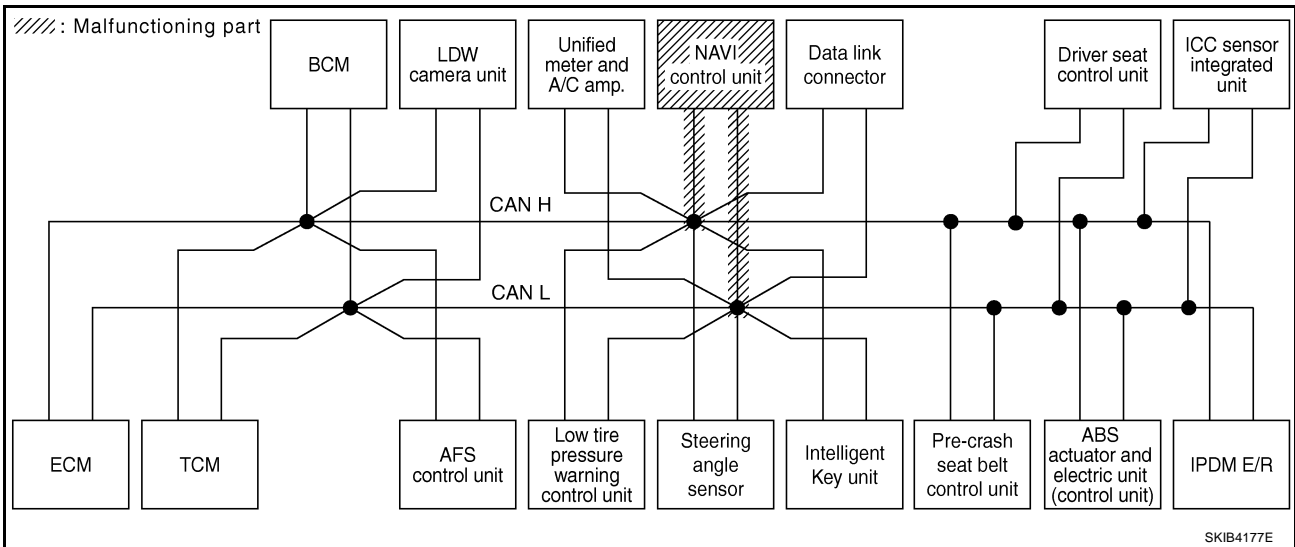
## Case 15

Check NAVI control unit circuit. Refer to [LAN-263, "NAVI Control Unit Circuit Inspection"](#).

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I  
J  
LAN  
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M

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD			IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	✓	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8436E



SKIB4177E

# CAN SYSTEM (TYPE 5)

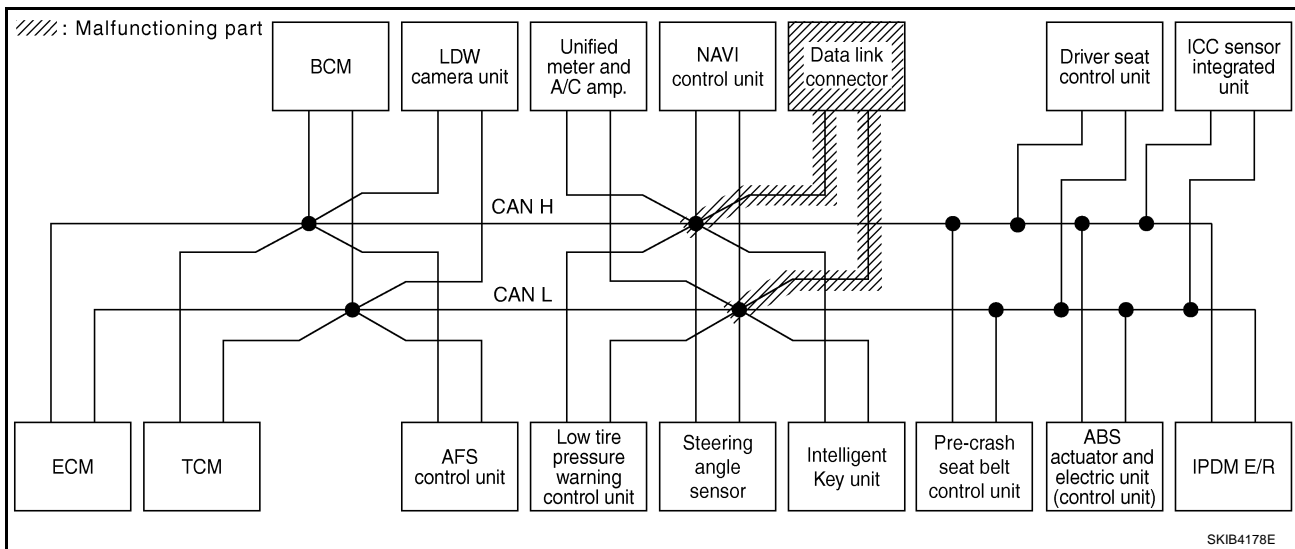
[CAN]

## Case 16

Check data link connector circuit. Refer to [LAN-264, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB437E



SKIB4178E

# CAN SYSTEM (TYPE 5)

[CAN]

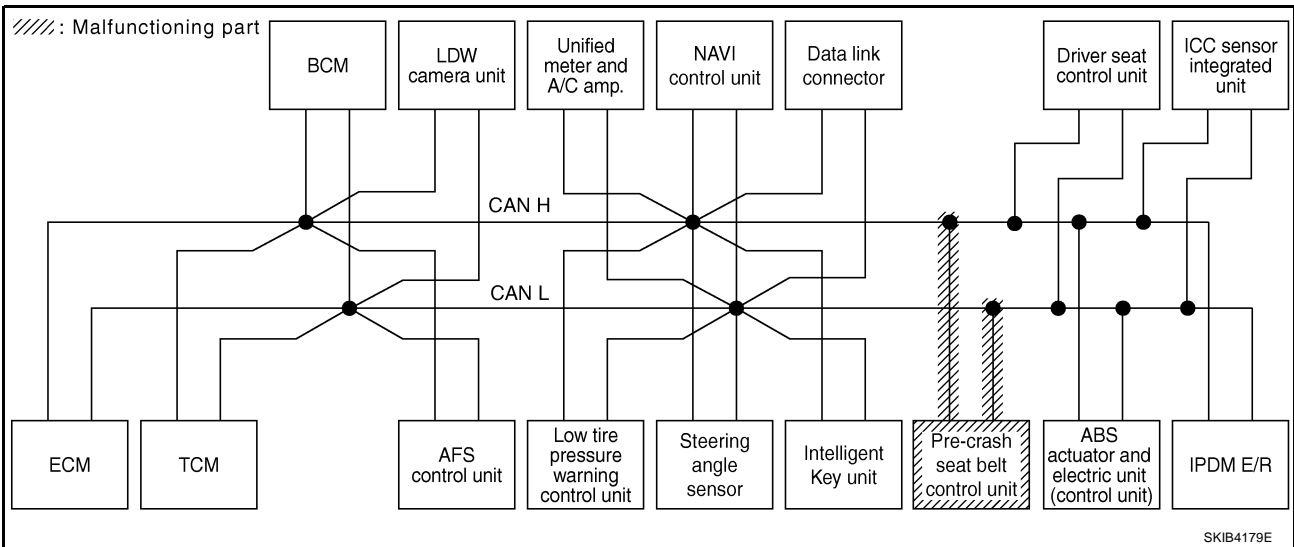
## Case 17

Check pre-crash seat belt control unit circuit. Refer to [LAN-264, "Pre-Crash Seat Belt Control Unit Circuit Inspection"](#).

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8438E



SKIB4179E

LAN

# CAN SYSTEM (TYPE 5)

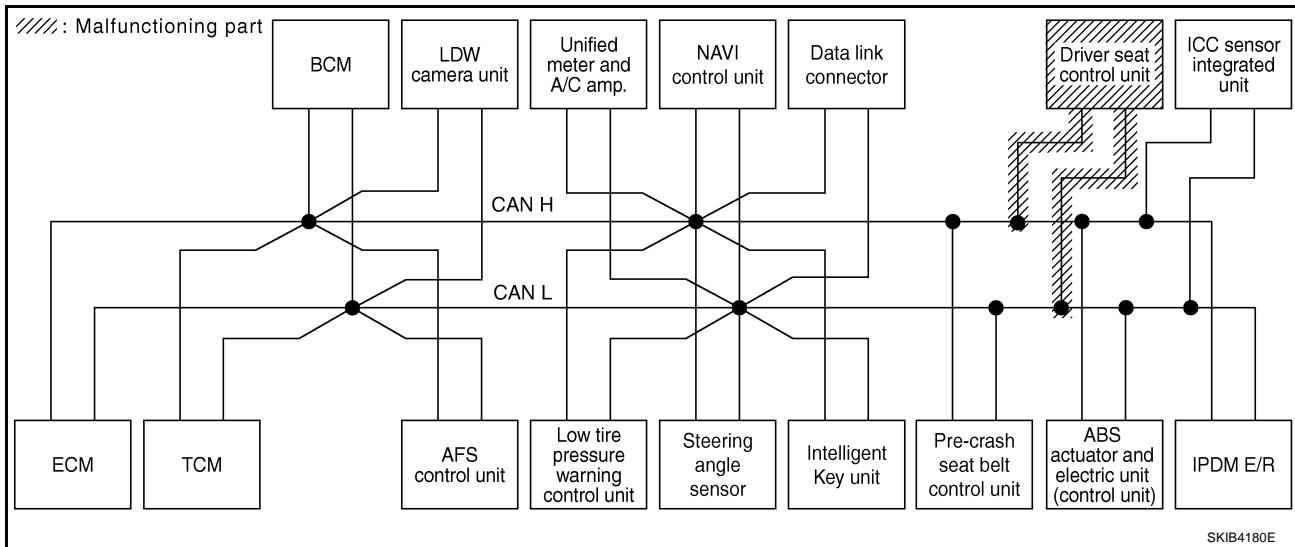
[CAN]

## Case 18

Check driver seat control unit circuit. Refer to [LAN-265, "Driver Seat Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8439E



SKIB4180E

# CAN SYSTEM (TYPE 5)

[CAN]

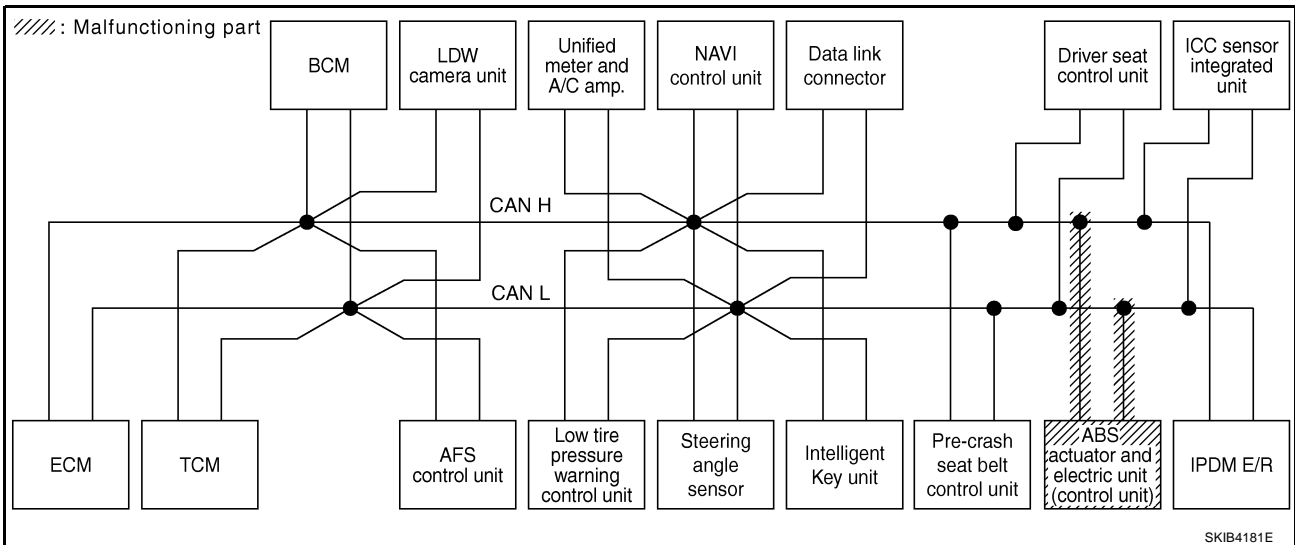
## Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-265, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
		Initial diagnosis	Transmit diagnosis	Receive diagnosis															
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	✓	✓	✓	—	—	—	UNKWN	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—

PKIB8440E



SKIB4181E

LAN

# CAN SYSTEM (TYPE 5)

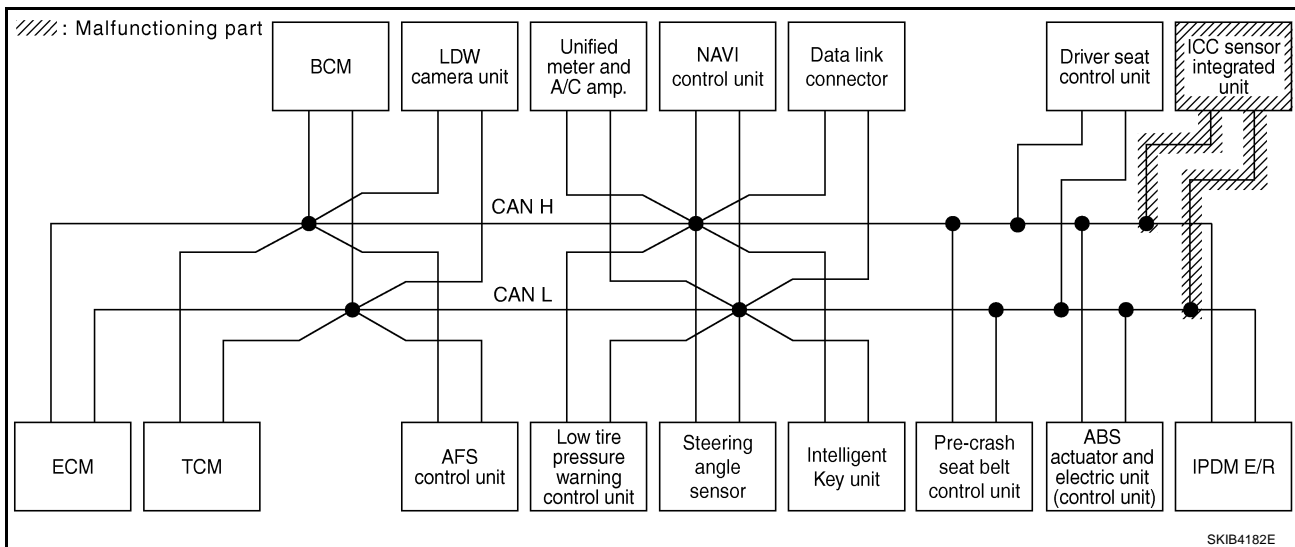
[CAN]

## Case 20

Check ICC sensor integrated unit circuit. Refer to [LAN-266, "ICC Sensor Integrated Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS				ICC/ e4WD	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8441E



SKIB4182E



# CAN SYSTEM (TYPE 5)

[CAN]

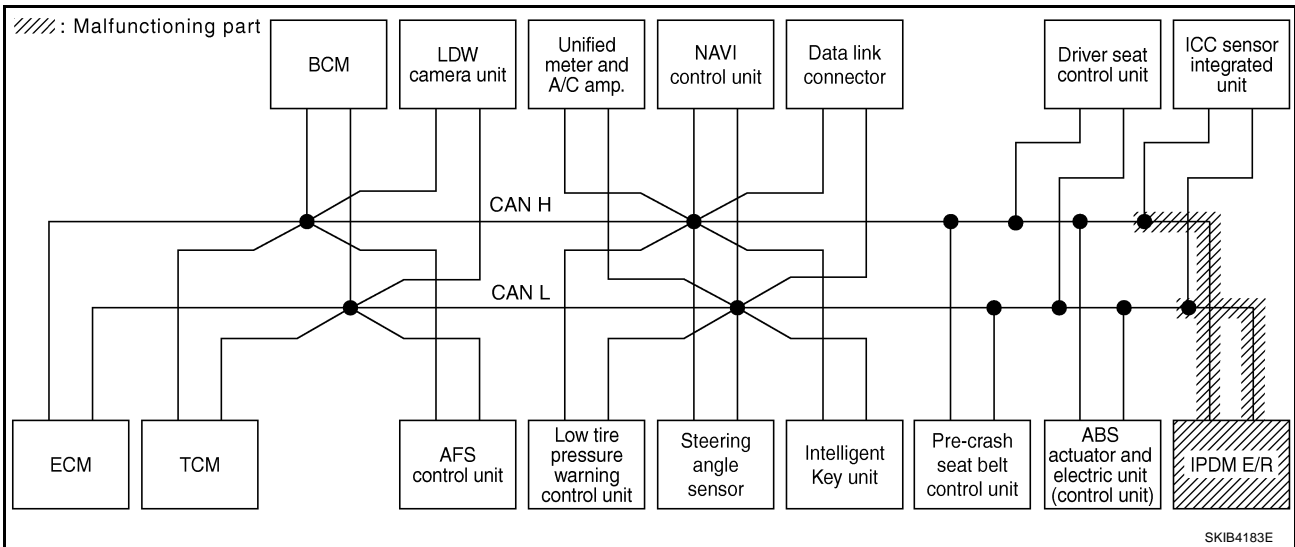
## Case 21

Check IPDM E/R circuit. Refer to [LAN-266, "IPDM E/R Circuit Inspection"](#).

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS						
		Initial diagnosis	Transmit diagnosis	Receive diagnosis																
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS			ICC/e4WD	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8442E



LAN

# CAN SYSTEM (TYPE 5)

[CAN]

## Case 22

Check CAN communication circuit. Refer to [LAN-267, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS				ICC/ e4WD	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8443E

## Case 23

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-274, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS				ICC/ e4WD	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8444E

## Case 24

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-274, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ICC	No indication	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8445E

## Inspection Between TCM and Data Link Connector Circuit

NKS0040J

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

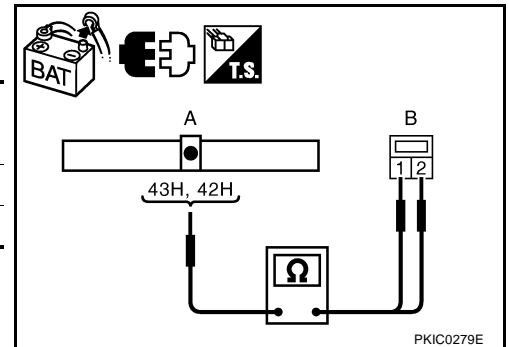
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



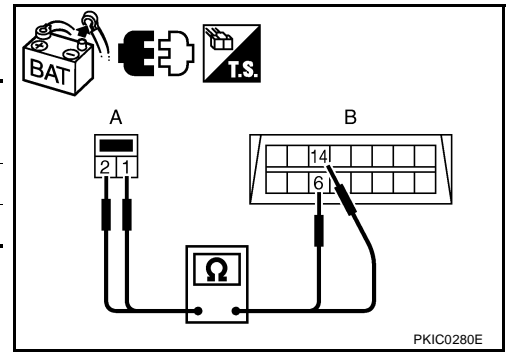
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit

NKS0040K

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

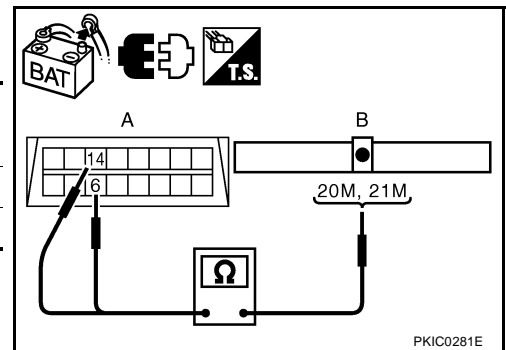
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



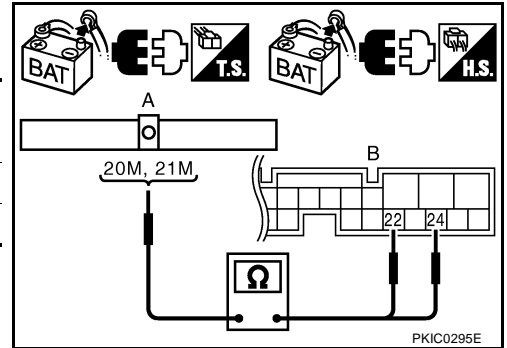
### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check continuity between harness connector (A) and pre-crash seat belt control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B142	24	Yes
	21M		22	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



### Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

NKS0040L

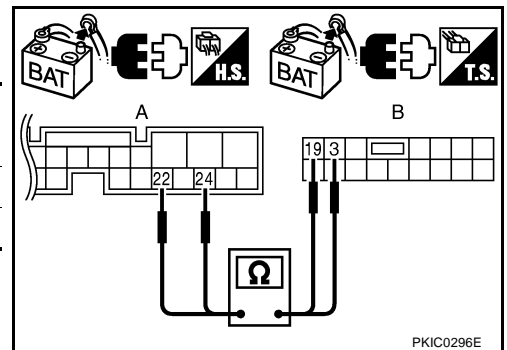
#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - Pre-crash seat belt control unit connector
  - harness connector B15
4. Check continuity between pre-crash seat belt control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B142	24	B15	3	Yes
	22		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



### Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS0040M

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

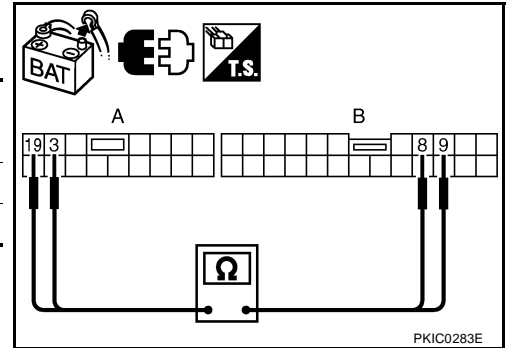
1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

OK or NG

OK >> GO TO 3.

NG >> Replace harness.



## 3. CHECK HARNESS FOR OPEN CIRCUIT

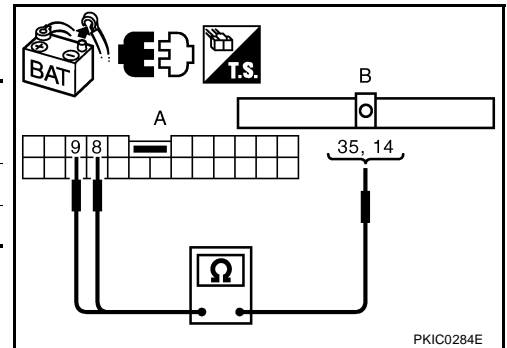
1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).

NG >> Repair harness.



## Inspection Between ABS Actuator and Electric Unit and ICC Sensor Integrated Unit Circuit

NKS0040N

### 1. CHECK CONNECTOR

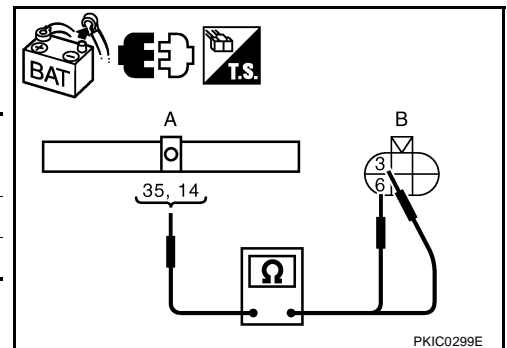
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - ABS actuator and electric unit (control unit) connector
  - ICC sensor integrated unit connector
4. Check continuity between ABS actuator and electric unit (control unit) harness connector (A) and ICC sensor integrated unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E30	35	E61	3	Yes
	14		6	Yes

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).

NG >> Repair harness.



## ECM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

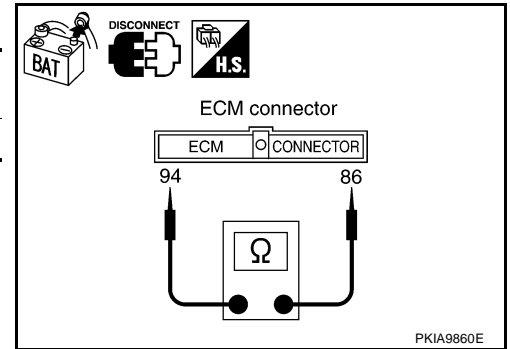
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.



## TCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

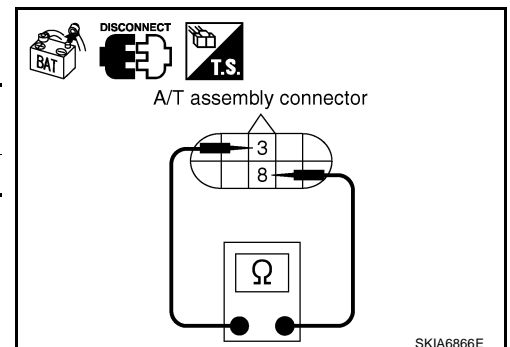
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

OK or NG

- OK >> Replace control valve with TCM.
- NG >> Repair harness between A/T assembly and AFS control unit.



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## AFS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

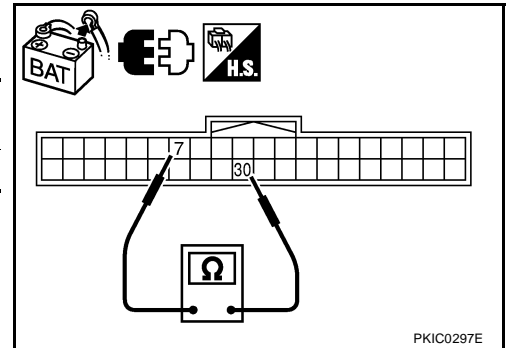
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
F110	30	7	54 – 66 Ω

**OK or NG**

- OK >> Replace AFS control unit.
- NG >> Repair harness between AFS control unit and BCM.



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## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

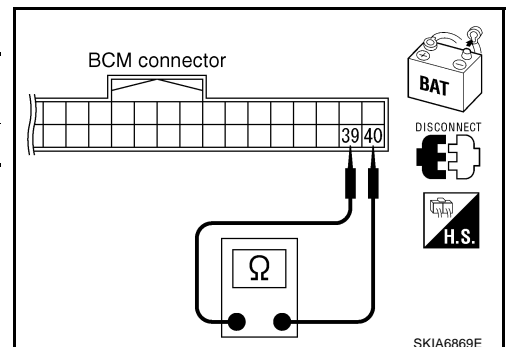
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

**OK or NG**

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and LDW camera unit.



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## LDW Camera Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of LDW camera unit for damage, bend and loose connection (unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

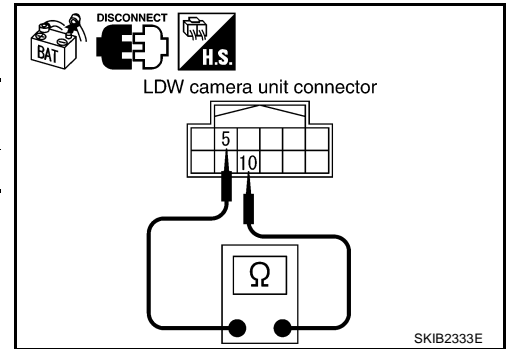
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check resistance between LDW camera unit harness connector terminals.

LDW camera unit connector	Terminal		Resistance (Approx.)
M182	10	5	54 – 66 Ω

OK or NG

- OK >> Replace LDW camera unit.  
 NG >> Repair harness between LDW camera unit and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

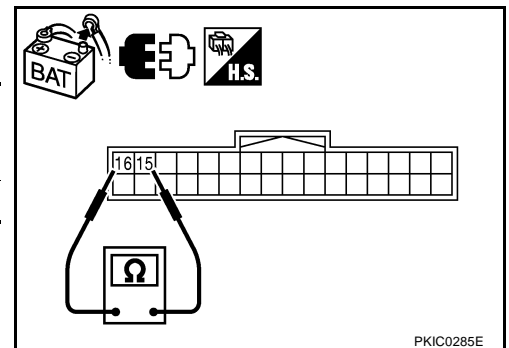
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

OK or NG

- OK >> Replace low tire pressure warning control unit.  
 NG >> Repair harness between low tire pressure warning control unit and data link connector.



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## Steering Angle Sensor Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

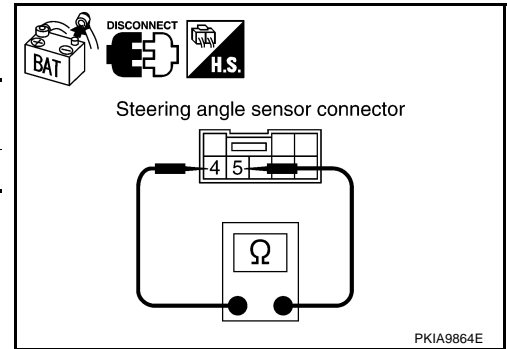
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	4	5	54 – 66 Ω

OK or NG

- OK >> Replace steering angle sensor.  
 NG >> Repair harness between steering angle sensor and data link connector.



## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

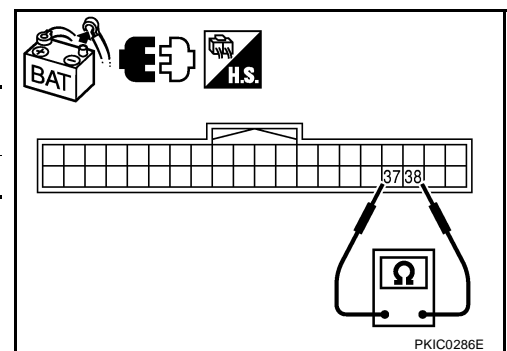
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
M32	38	37	54 – 66 Ω

OK or NG

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

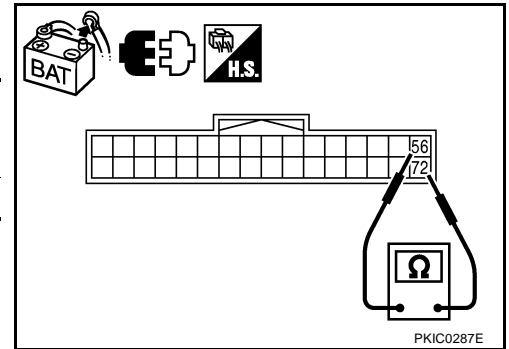
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
	56	72	
M65	56	72	54 – 66 Ω

OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.



## NAVI Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - NAVI control unit connector
  - Harness connector M216
  - Harness connector M53

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

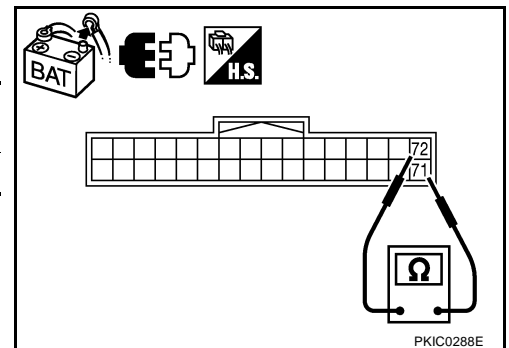
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check resistance between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Resistance (Approx.)
	71	72	
M210	71	72	54 – 66 Ω

OK or NG

- OK >> Replace NAVI control unit.  
 NG >> Repair harness between NAVI control unit and data link connector.



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## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

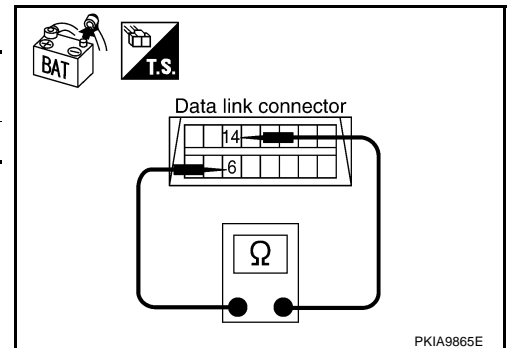
### 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#) .  
 NG >> Repair harness between data link connector and harness connector M13.



## Pre-Crash Seat Belt Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of pre-crash seat belt control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

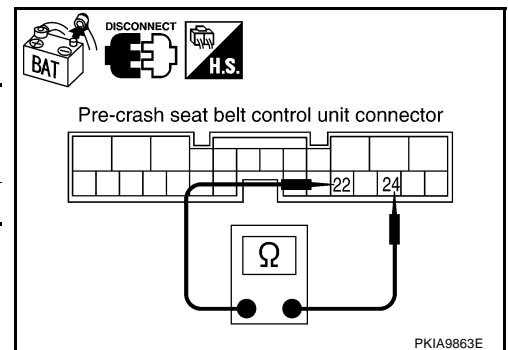
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check resistance between pre-crash seat belt control unit harness connector terminals.

Pre-crash seat belt control unit connector	Terminal		Resistance (Approx.)
B142	24	22	54 – 66 Ω

OK or NG

- OK >> Replace pre-crash seat belt control unit.  
 NG >> Replace harness.



**Driver Seat Control Unit Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

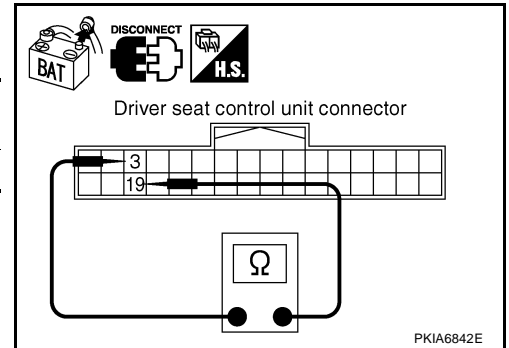
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Replace harness.



**ABS Actuator and Electric Unit (Control Unit) Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

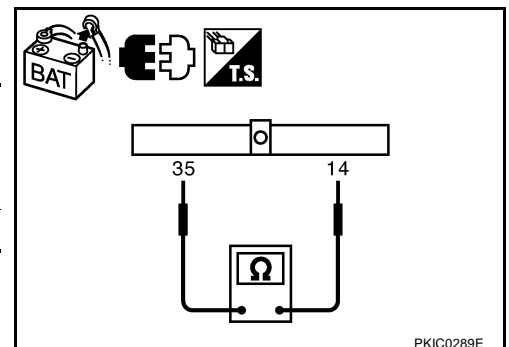
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) and ICC sensor integrated unit.



## ICC Sensor Integrated Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ICC sensor integrated unit for damage, bend and loose connection (unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

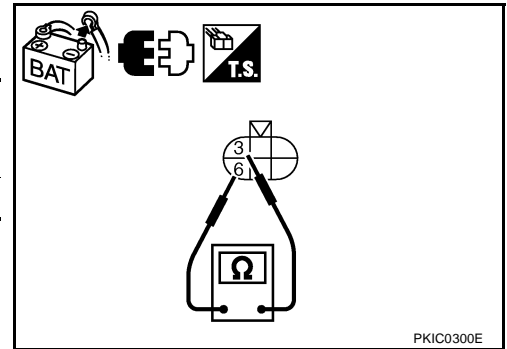
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC sensor integrated unit connector.
2. Check resistance between ICC sensor integrated unit harness connector terminals.

ICC sensor integrated unit connector	Terminal		Resistance (Approx.)
E61	3	6	54 – 66 Ω

OK or NG

- OK >> Replace ICC sensor integrated unit.  
 NG >> Repair harness between ICC sensor integrated unit and IPDM E/R.



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## IPDM E/R Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

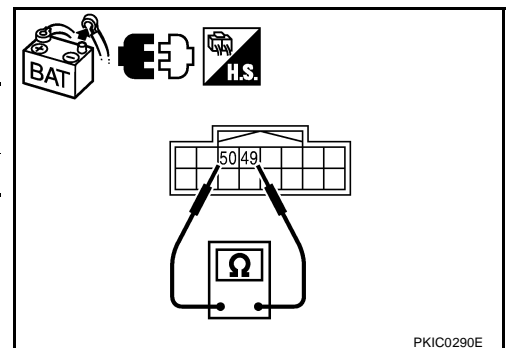
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

OK or NG

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and ICC sensor integrated unit.



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## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AFS control unit
  - BCM
  - LDW camera unit
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ICC sensor integrated unit
  - IPDM E/R
  - Between ECM and A/T assembly
  - Between ECM and AFS control unit
  - Between ECM and NAVI control unit
  - Between ECM and driver seat control unit
  - Between ECM and IPDM E/R

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

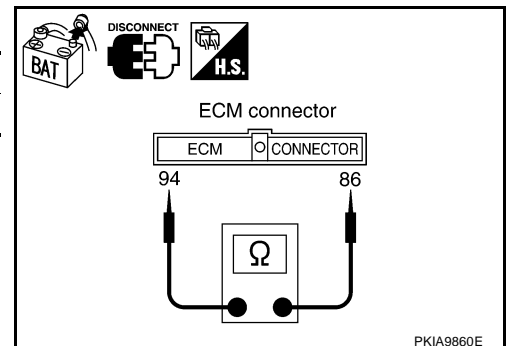
### 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - LDW camera unit connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

OK or NG

- OK >> GO TO 3.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and LDW camera unit
  - Harness between ECM and harness connector M61



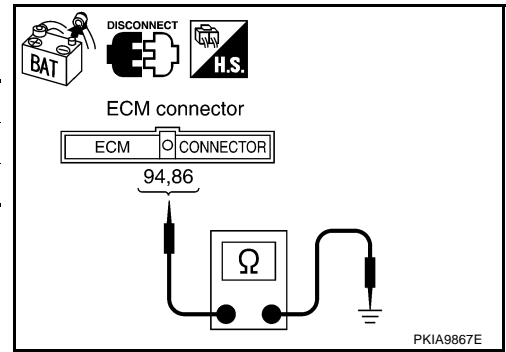
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal		Continuity
M71	94	Ground	No
	86		No

**OK or NG**

- OK >> GO TO 4.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and LDW camera unit
  - Harness between ECM and harness connector M61



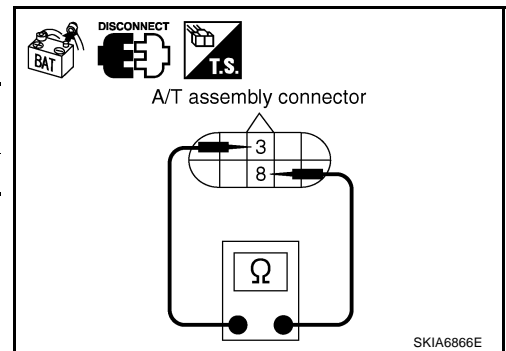
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.  
 NG >> Repair harness between A/T assembly and harness connector F102.



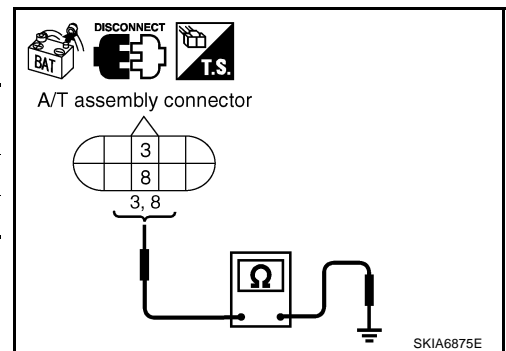
## 5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal		Continuity
F42	3	Ground	No
	8		No

**OK or NG**

- OK >> GO TO 6.  
 NG >> Repair harness between A/T assembly and harness connector F102.





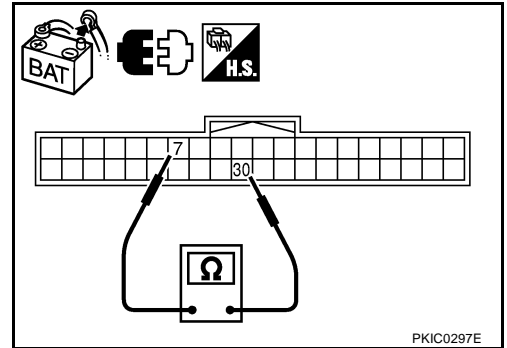
**6. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Continuity
F110	30	7	No

**OK or NG**

- OK >> GO TO 7.  
 NG >> Repair harness between AFS control unit and harness connector F102.



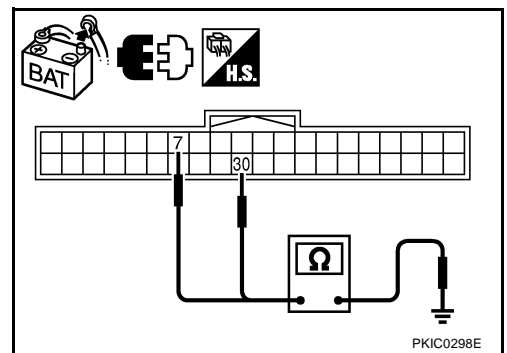
**7. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		No
	7	No	

**OK or NG**

- OK >> GO TO 8.  
 NG >> Replace harness between AFS control unit and harness connector F102.



A  
B  
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L  
M

LAN

**8. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

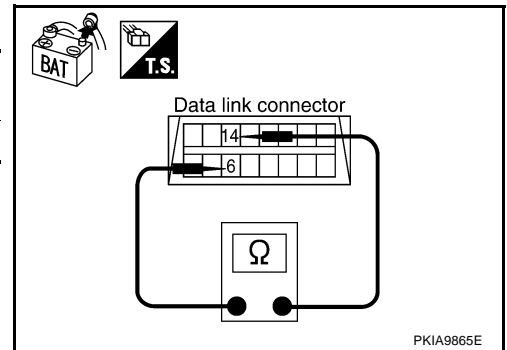
Data link connector	Terminal		Continuity
	6	14	
M60			No

**OK or NG**

OK >> GO TO 9.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



**9. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between data link connector terminals and ground.

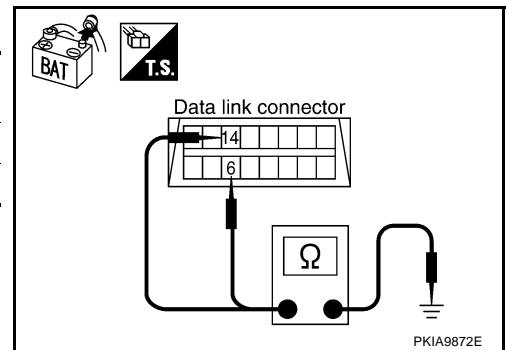
Data link connector	Terminal	Ground	Continuity
	M60		6
	14	No	

**OK or NG**

OK >> GO TO 10.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



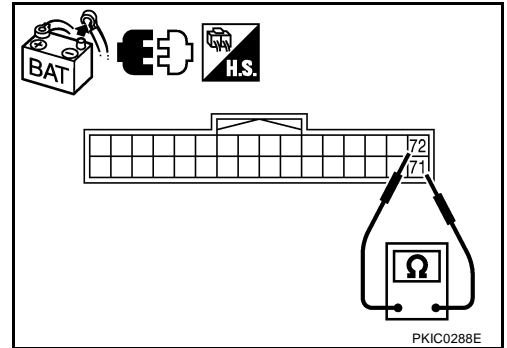
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check continuity between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Continuity
	71	72	
M210	71	72	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



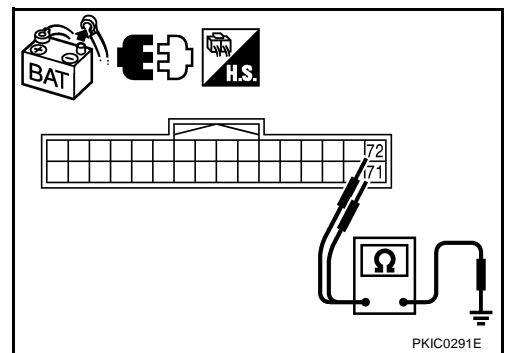
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between NAVI control unit harness connector terminals and ground.

NAVI control unit connector	Terminal	Ground	Continuity
	71		No
	72		No

**OK or NG**

- OK >> GO TO 12.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



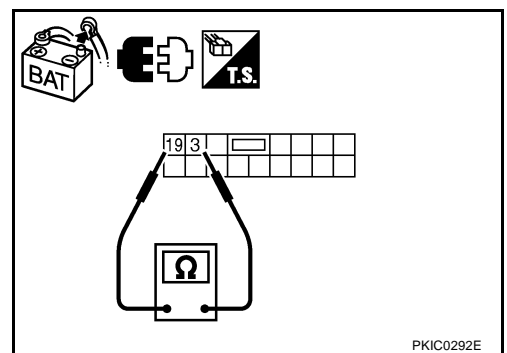
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Pre-crash seat belt control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
	3	19	
B15	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Replace harness.



A  
B  
C  
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J  
L  
M

LAN

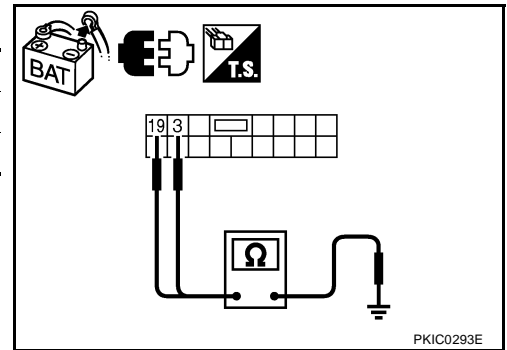
### 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		
	19	No	

OK or NG

- OK >> GO TO 14.
- NG >> Replace harness.



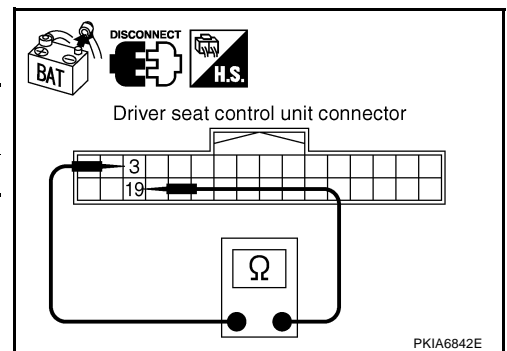
### 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Continuity
B204	3	19	No

OK or NG

- OK >> GO TO 15.
- NG >> Repair harness between driver seat control unit and harness connector B202.



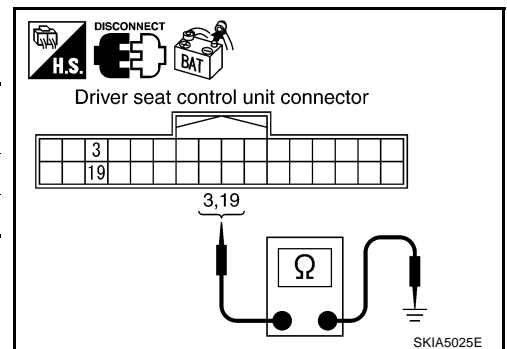
### 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		
	19	No	

OK or NG

- OK >> GO TO 16.
- NG >> Repair harness between driver seat control unit and harness connector B202.



## 16. CHECK HARNESS FOR SHORT CIRCUIT

- Disconnect following connectors.
  - ABS actuator and electric unit (control unit) connector
  - ICC sensor integrated unit connector
  - IPDM E/R connector
- Check continuity between IPDM E/R harness connector terminals.

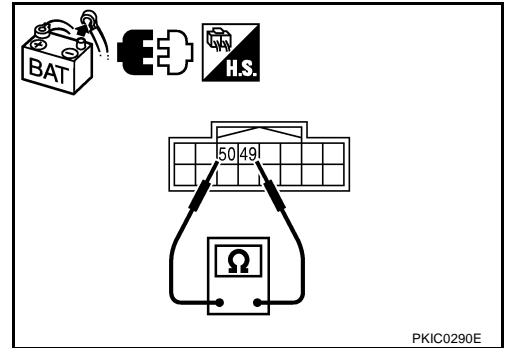
IPDM E/R connector	Terminal		Continuity
E9	49	50	No

### OK or NG

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)
- Harness between IPDM E/R and ICC sensor integrated unit



## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

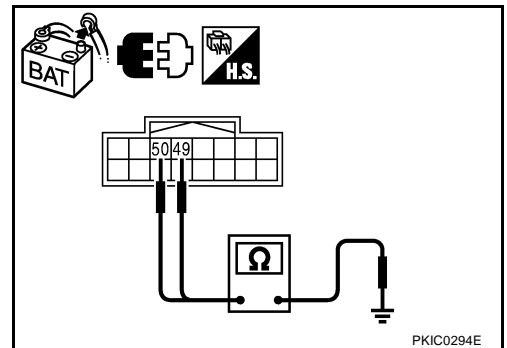
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		No
	50	No	

### OK or NG

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)
- Harness between IPDM E/R and ICC sensor integrated unit



## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

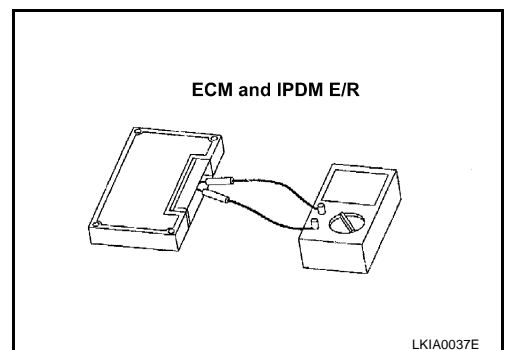
- Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω

### OK or NG

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



## 19. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AFS control unit
  - BCM
  - LDW camera unit
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ICC sensor integrated unit
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

NKS00415

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)

# CAN SYSTEM (TYPE 6)

[CAN]

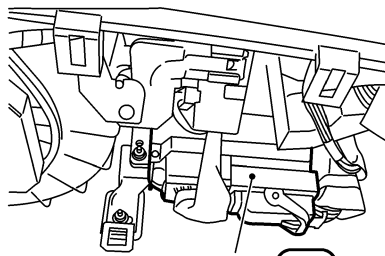
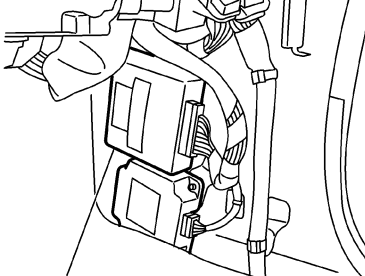
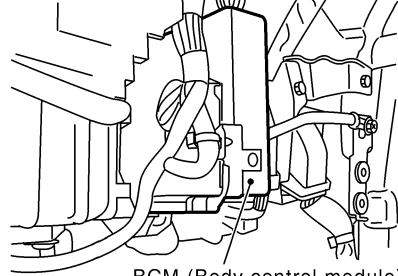
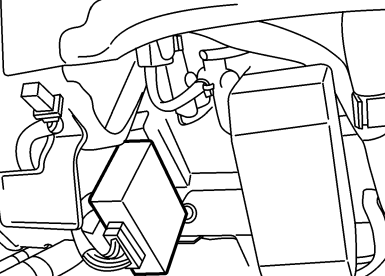
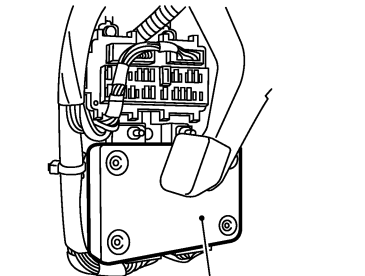
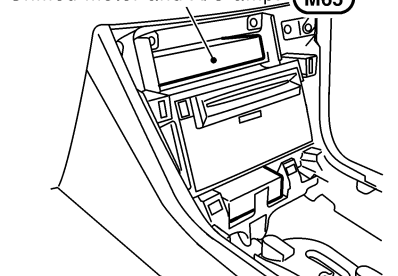
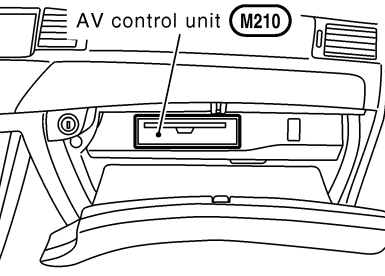
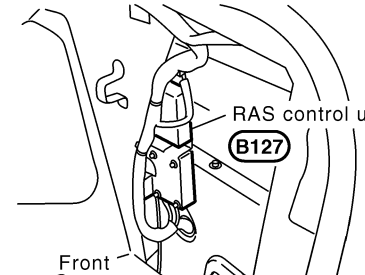
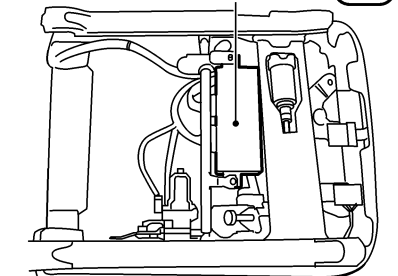
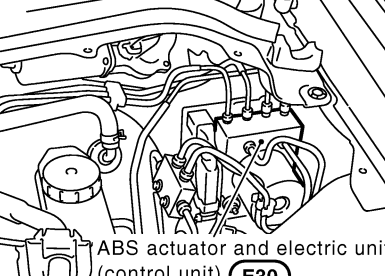
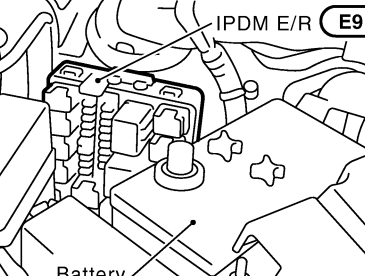
PF2:23710

NKS00416

## CAN SYSTEM (TYPE 6)

### Component Parts and Harness Connector Location

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>AV control unit (M210)</p>	<p>View with trunk side RH finisher removed</p>  <p>RAS control unit (B127)</p> <p>Front</p>	<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>
<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>	

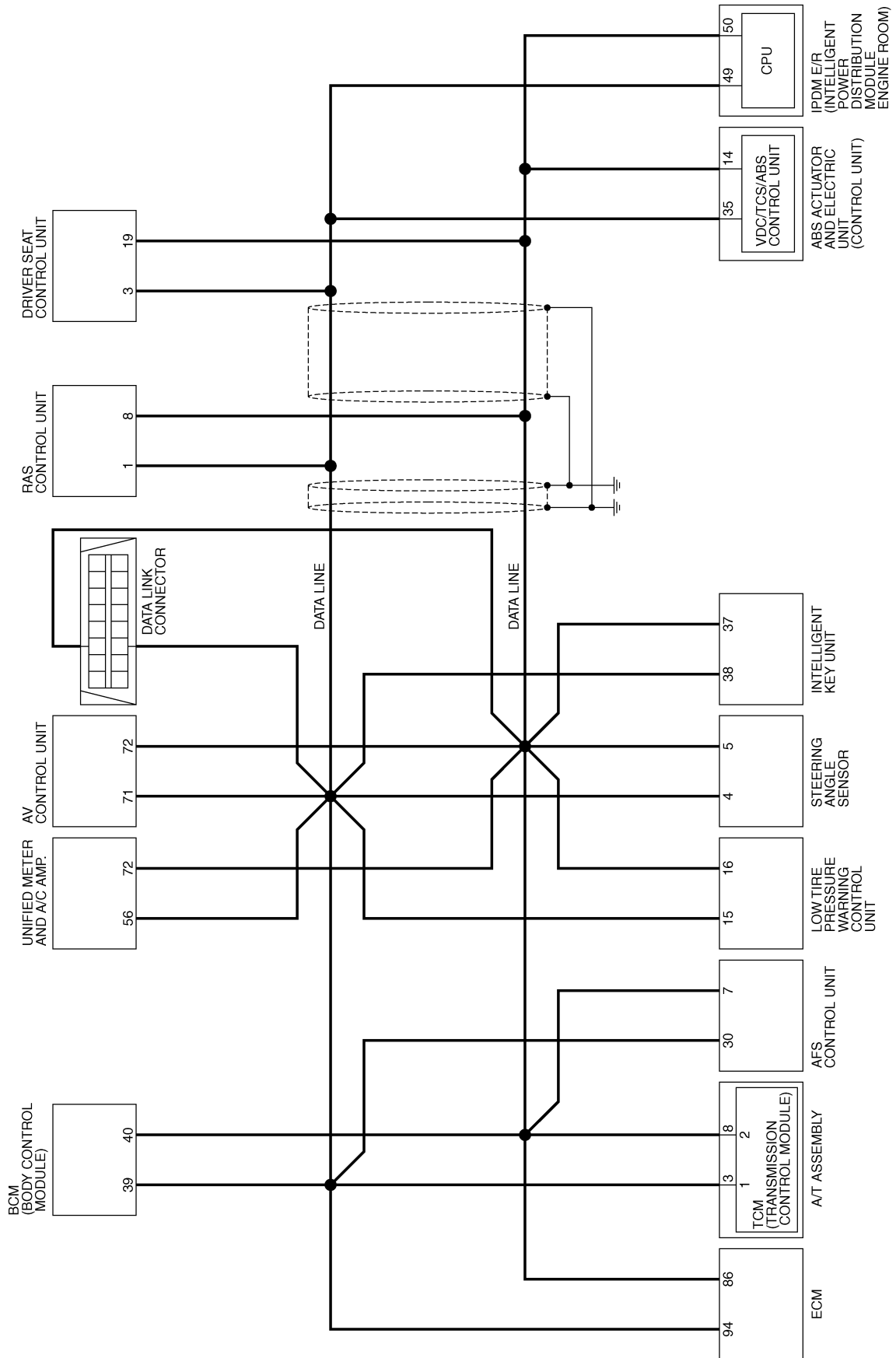
PKIC0604E

# CAN SYSTEM (TYPE 6)

[CAN]

## Schematic

NKS00417



TKW73270E



# CAN SYSTEM (TYPE 6)

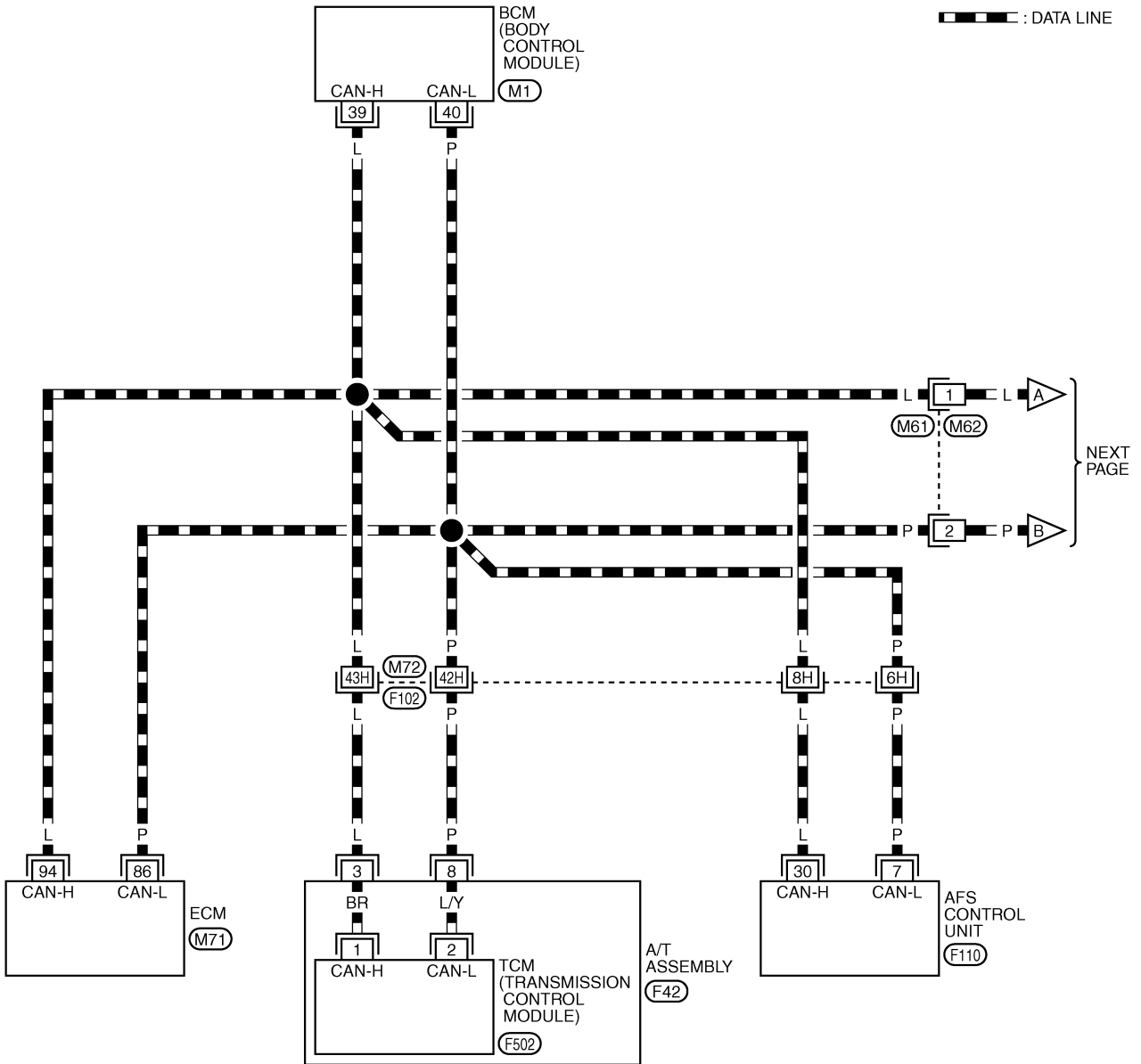
[CAN]

NKS00418

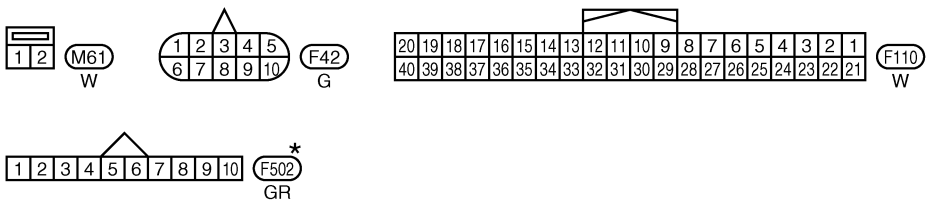
## Wiring Diagram — CAN —

LAN-CAN-19

▬ : DATA LINE



A  
B  
C  
D  
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G  
H  
I  
J  
LAN  
L  
M



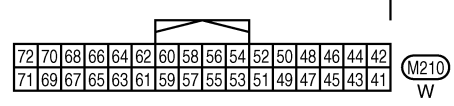
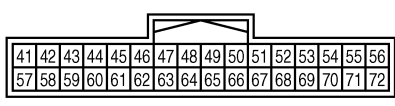
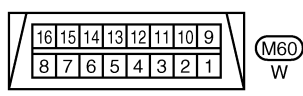
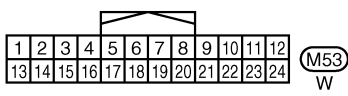
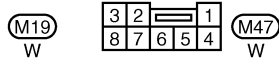
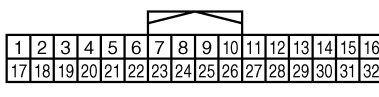
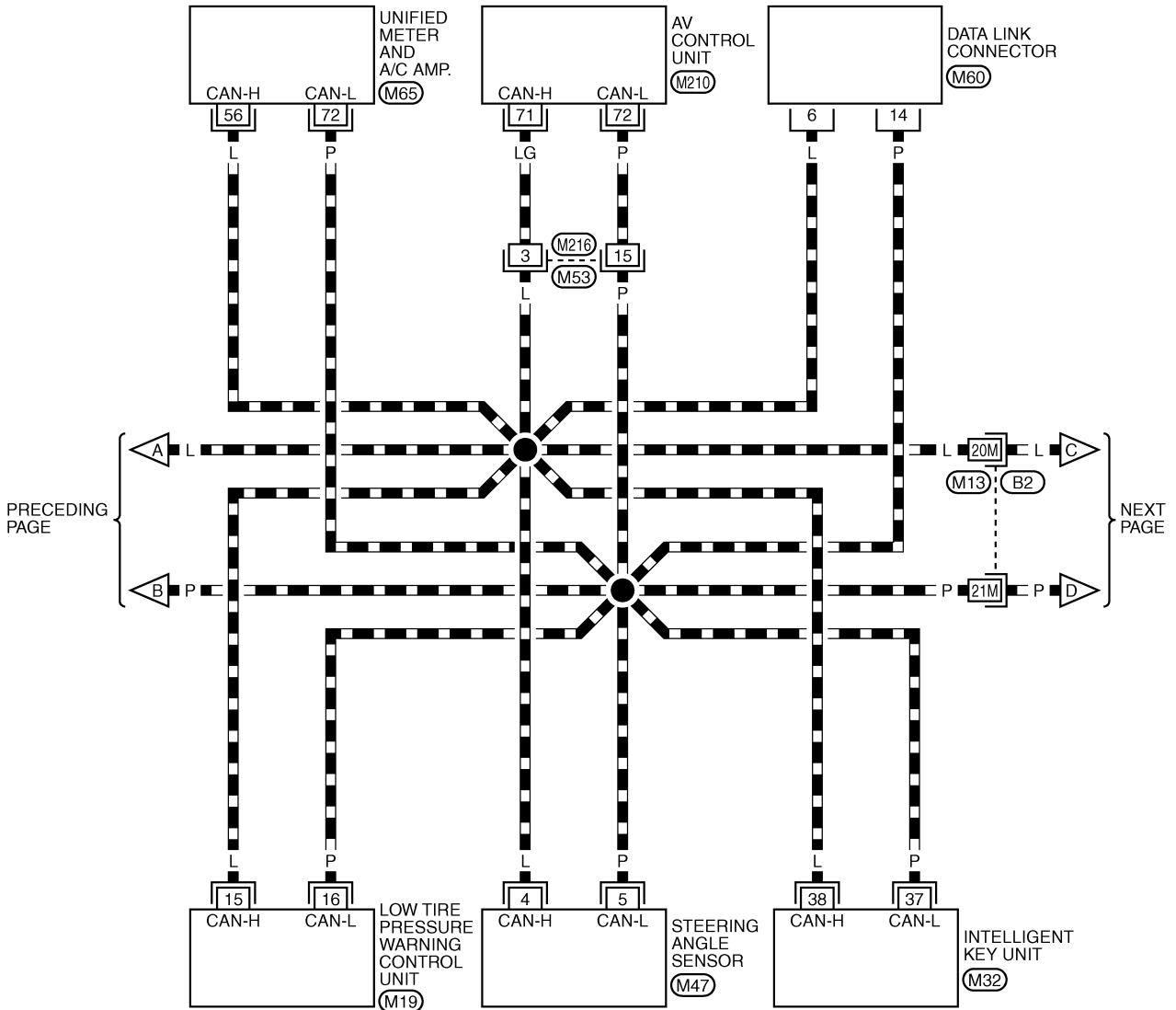
REFER TO THE FOLLOWING.  
 (F102) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3271E

## LAN-CAN-20

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

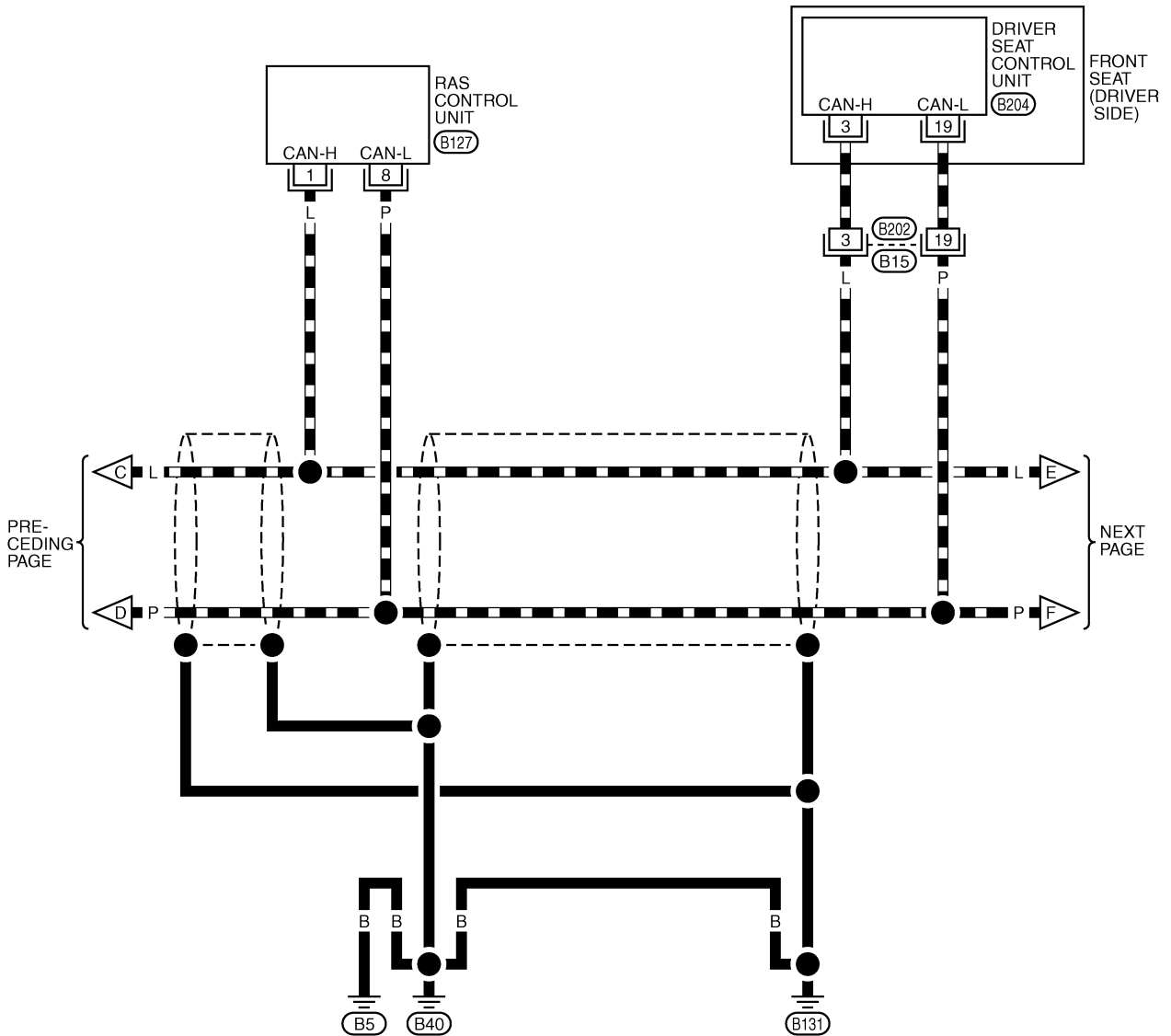
(M32) -ELECTRICAL UNITS

# CAN SYSTEM (TYPE 6)

[CAN]

## LAN-CAN-21

▬ : DATA LINE



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M

LAN

19	3	1		17	40
61	60	59	32	48	21

(B15) W

1	2	3	4	5	6	7	8	9	10	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
11	12	13	14	15	16	17	18	19	20																					

(B127) W



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

(B204) W



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

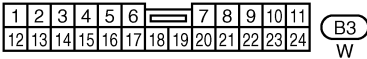
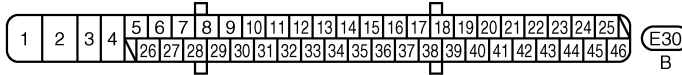
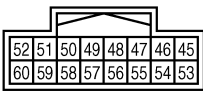
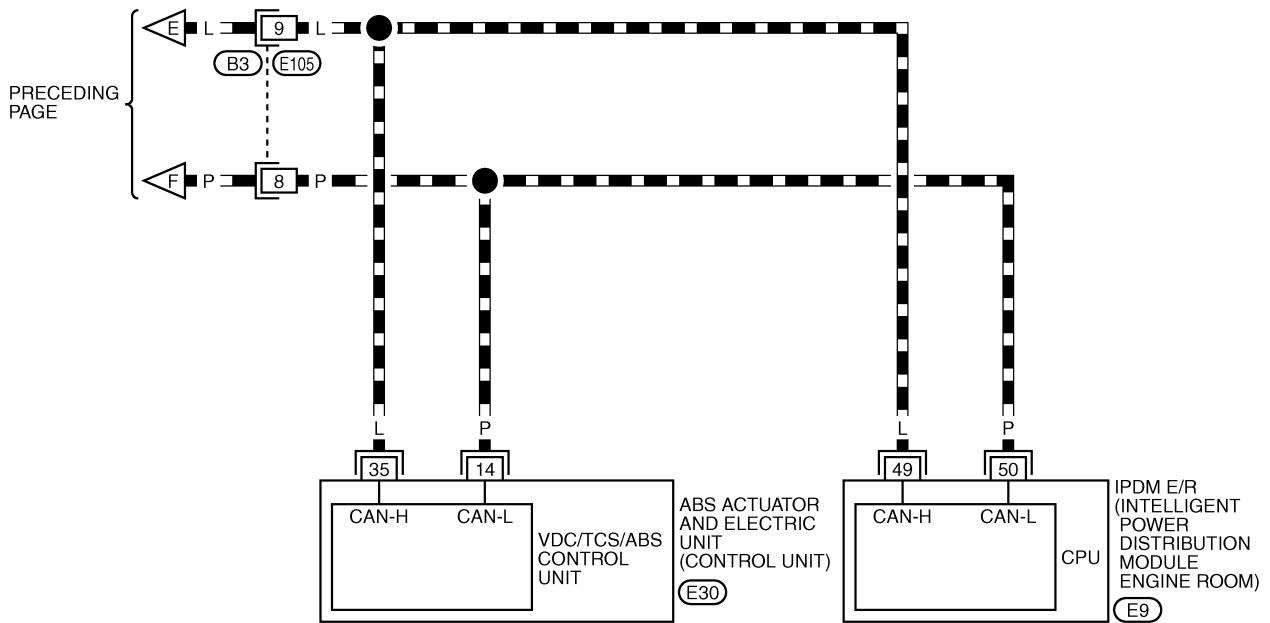
TKWT3273E

# CAN SYSTEM (TYPE 6)

[CAN]

## LAN-CAN-22

▬ : DATA LINE



TKWT3274E

# CAN SYSTEM (TYPE 6)

[CAN]

NKS00419

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8446E

# CAN SYSTEM (TYPE 6)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
RAS/HICAS  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9561E

# CAN SYSTEM (TYPE 6)

[CAN]

A  
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Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
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Attach copy of  
BCM  
CAN DIAG SUPPORT  
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Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
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INTELLIGENT KEY  
CAN DIAG SUPPORT  
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MULTI AV  
CAN DIAG SUPPORT  
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Attach copy of  
RAS/HICAS  
CAN DIAG SUPPORT  
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Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
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Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9562E

# CAN SYSTEM (TYPE 6)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

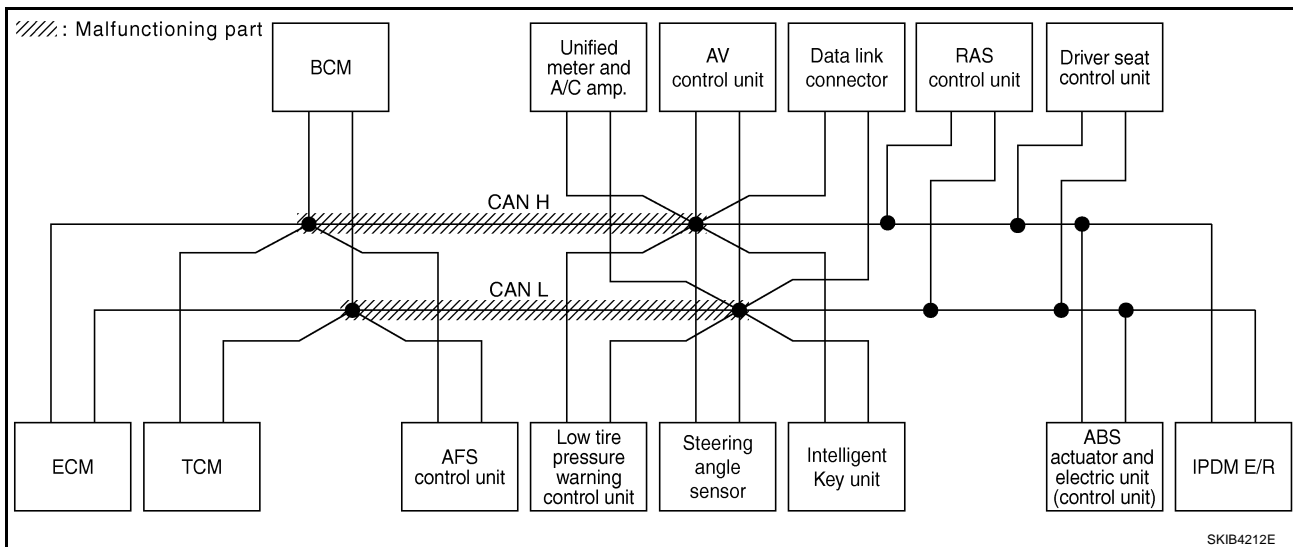
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-303, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R										
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS							
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8447E



SKIB4212E



# CAN SYSTEM (TYPE 6)

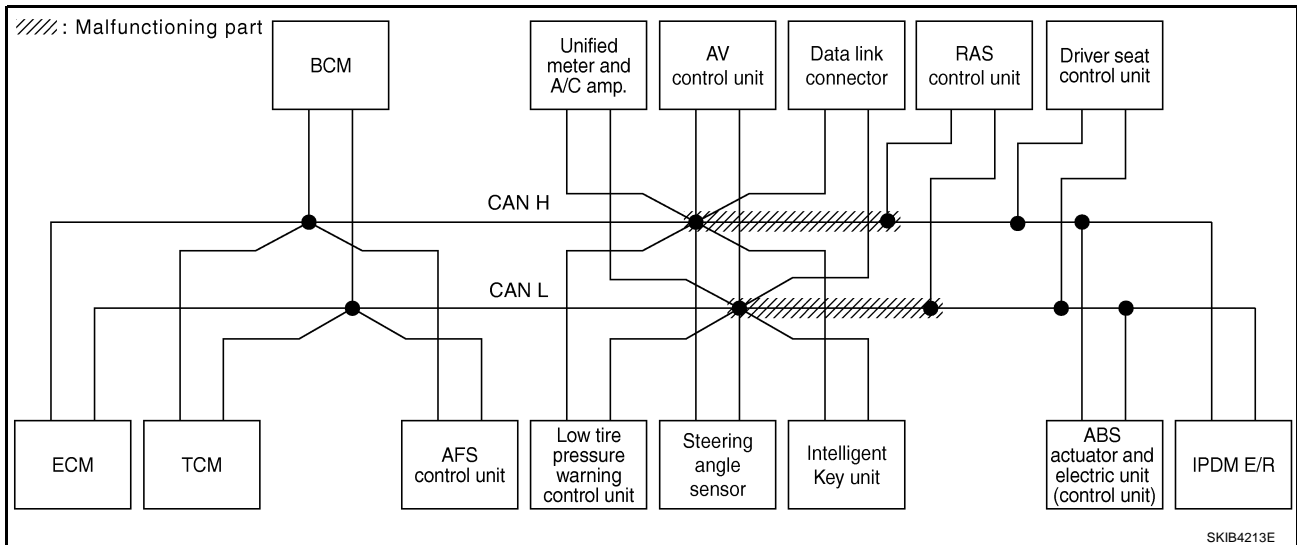
[CAN]

## Case 2

Check harness between data link connector and RAS control unit. Refer to [LAN-304, "Inspection Between Data Link Connector and RAS Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8448E



SKIB4213E

# CAN SYSTEM (TYPE 6)

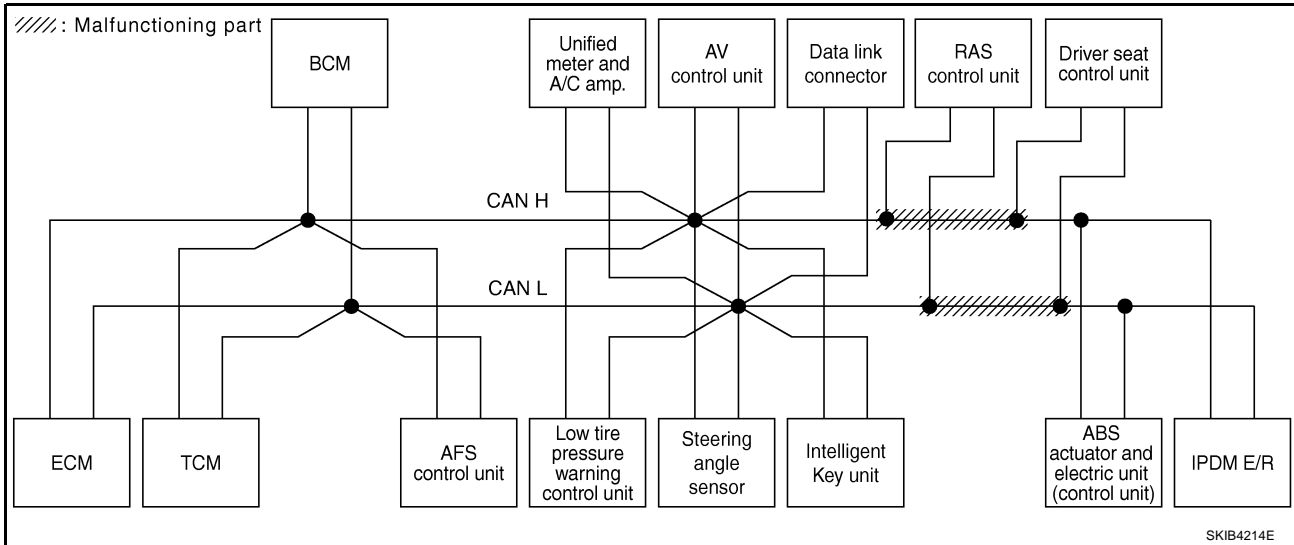
[CAN]

## Case 3

Check harness between RAS control unit and driver seat control unit. Refer to [LAN-305, "Inspection Between RAS Control Unit and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R						
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS											
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8449E



SKIB4214E

# CAN SYSTEM (TYPE 6)

[CAN]

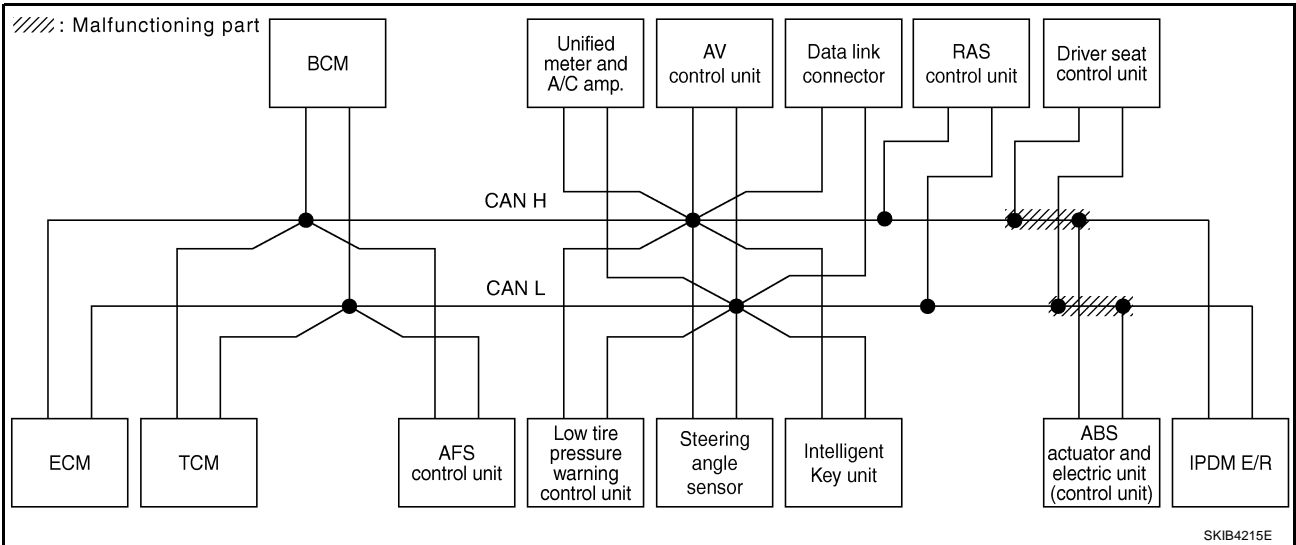
## Case 4

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-305, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

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SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8450E



SKIB4215E

LAN

# CAN SYSTEM (TYPE 6)

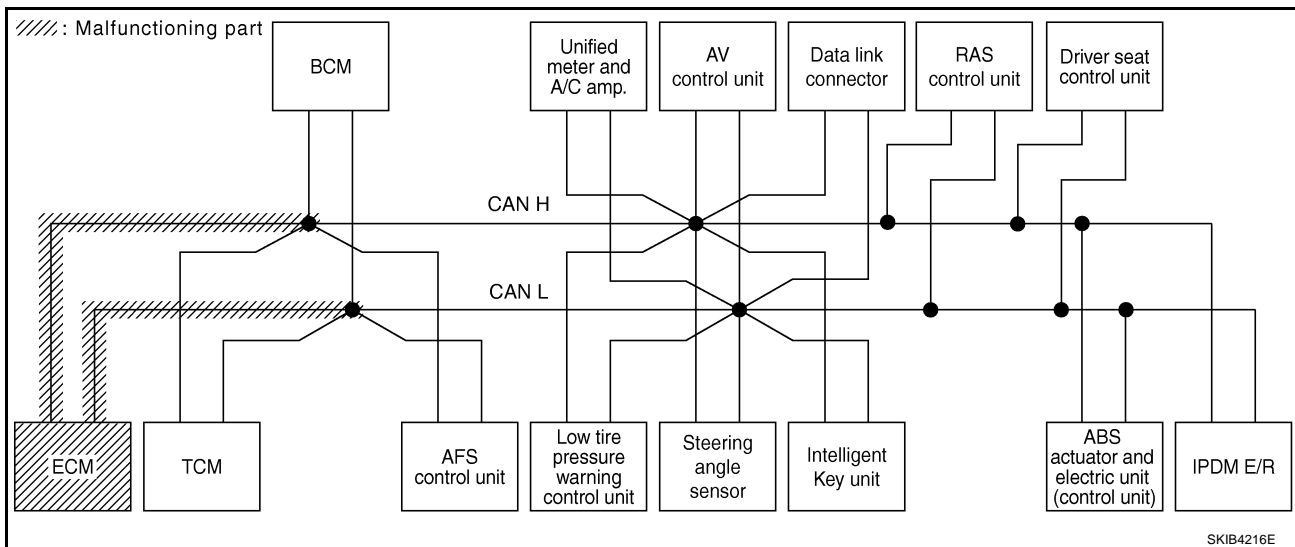
[CAN]

## Case 5

Check ECM circuit. Refer to [LAN-306, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8451E



SKIB4216E

# CAN SYSTEM (TYPE 6)

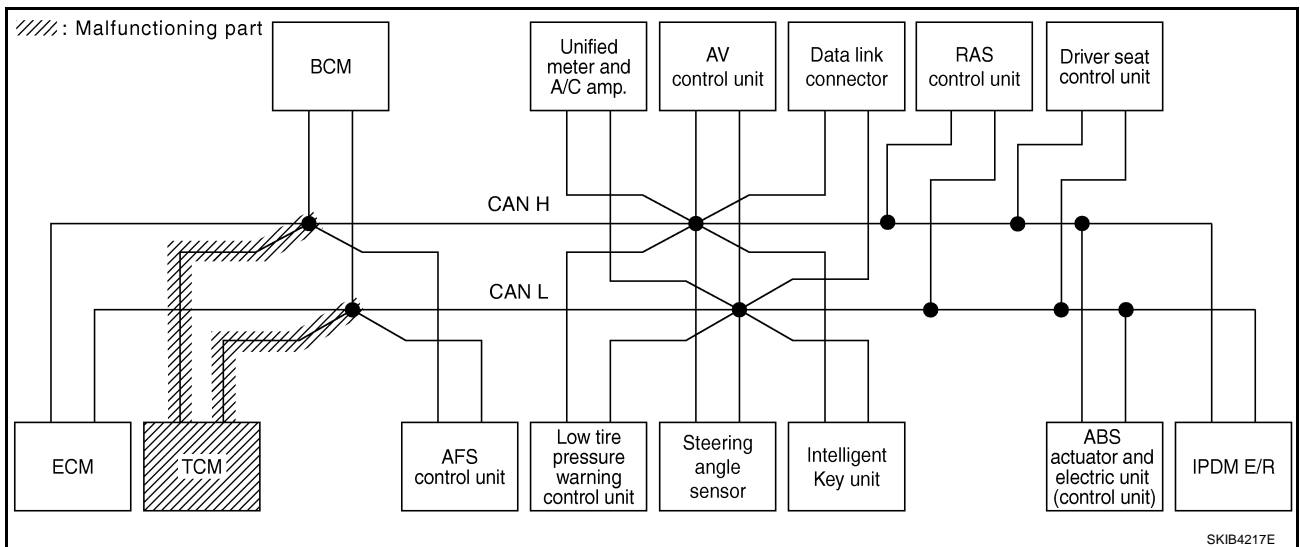
[CAN]

## Case 6

Check TCM circuit. Refer to [LAN-306. "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	✓	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	✓	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	✓	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	✓	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	✓	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—	
ABS	—	NG	UNKWN	UNKWN	✓	—	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8452E



SKIB4217E

# CAN SYSTEM (TYPE 6)

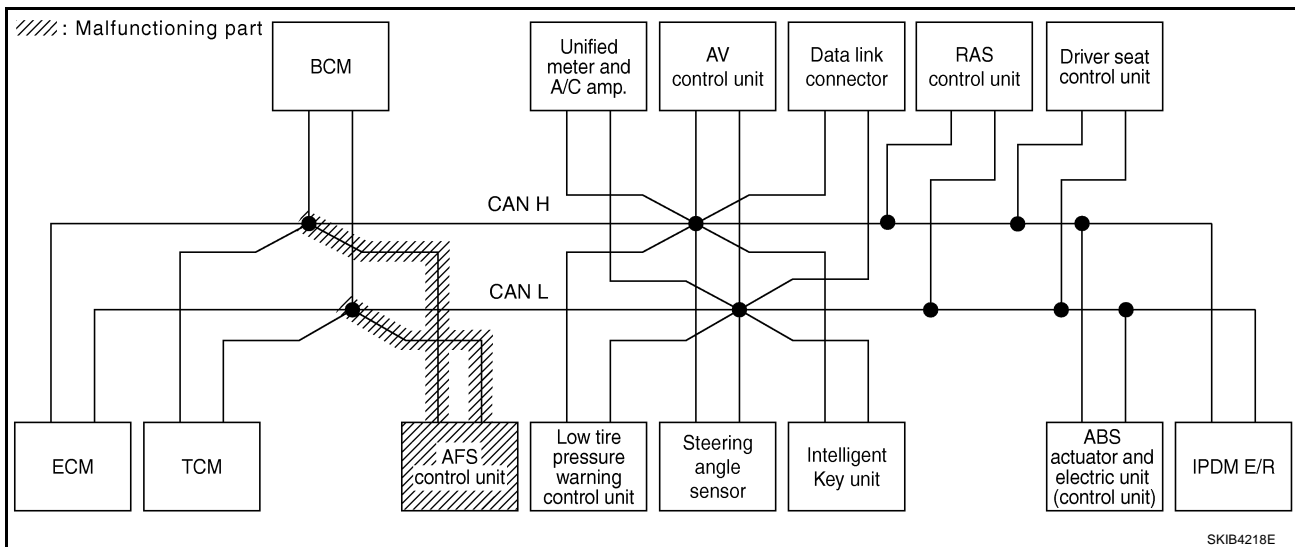
[CAN]

## Case 7

Check AFS control unit circuit. Refer to [LAN-307, "AFS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8453E



SKIB4218E

# CAN SYSTEM (TYPE 6)

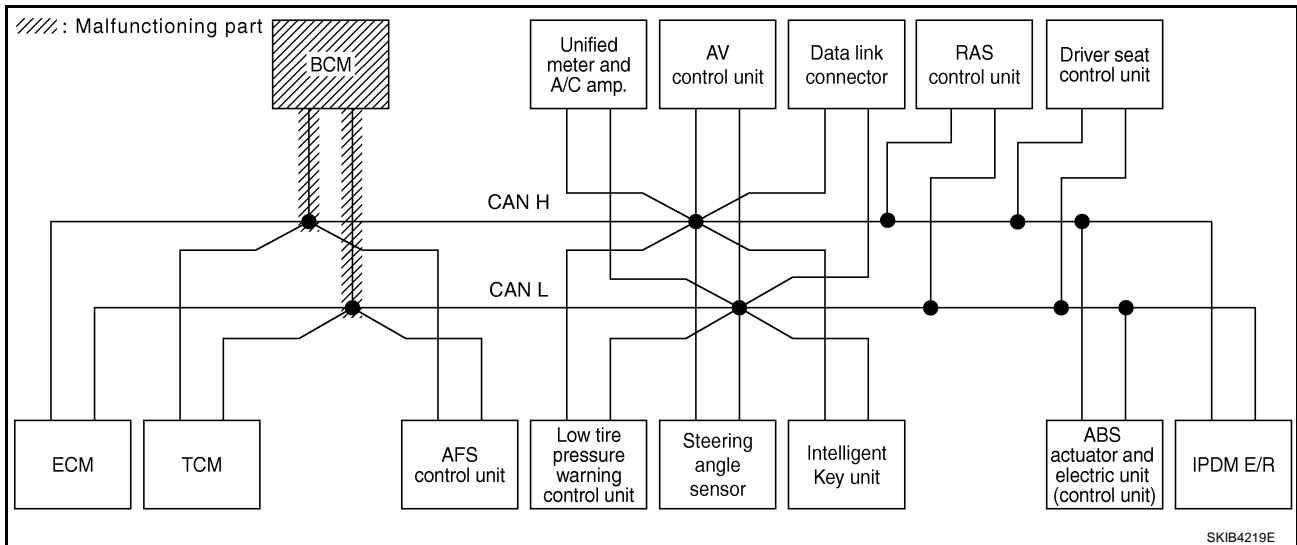
[CAN]

## Case 8

Check BCM circuit. Refer to [LAN-307, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8454E



SKIB4219E

# CAN SYSTEM (TYPE 6)

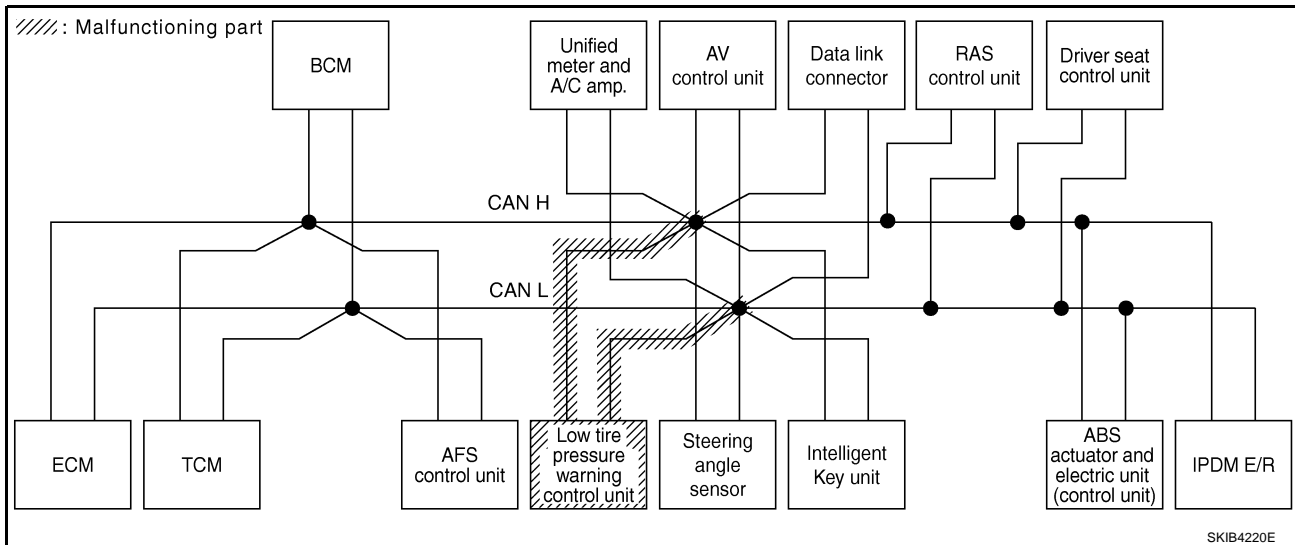
[CAN]

## Case 9

Check low tire pressure warning control unit circuit. Refer to [LAN-308, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8455E



SKIB4220E



# CAN SYSTEM (TYPE 6)

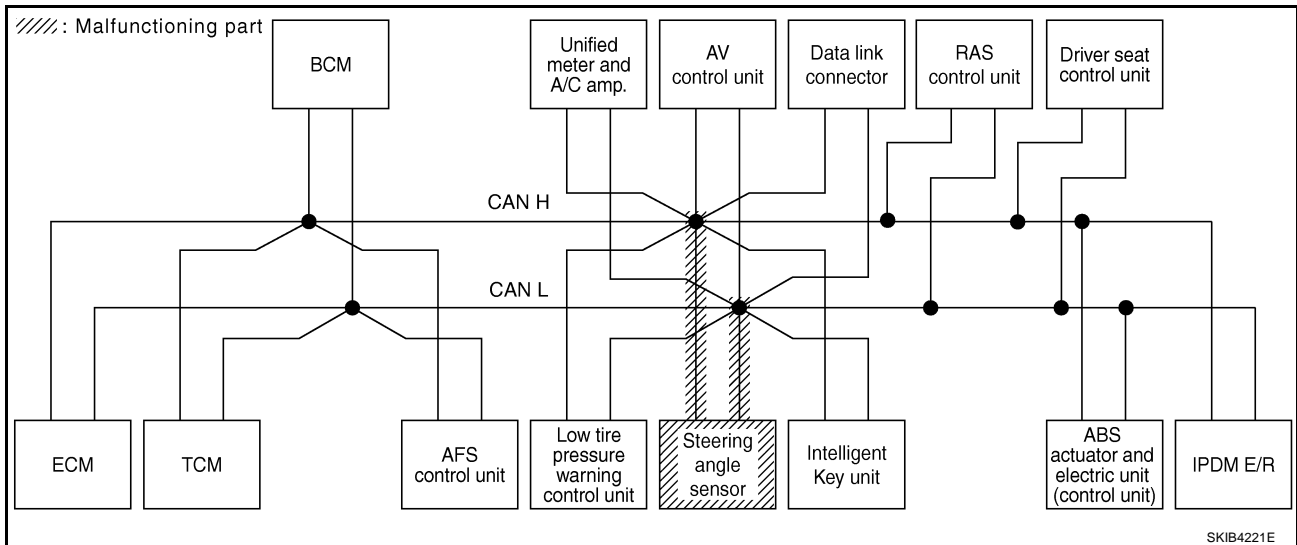
[CAN]

## Case 10

Check steering angle sensor circuit. Refer to [LAN-308, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8456E



SKIB4221E

# CAN SYSTEM (TYPE 6)

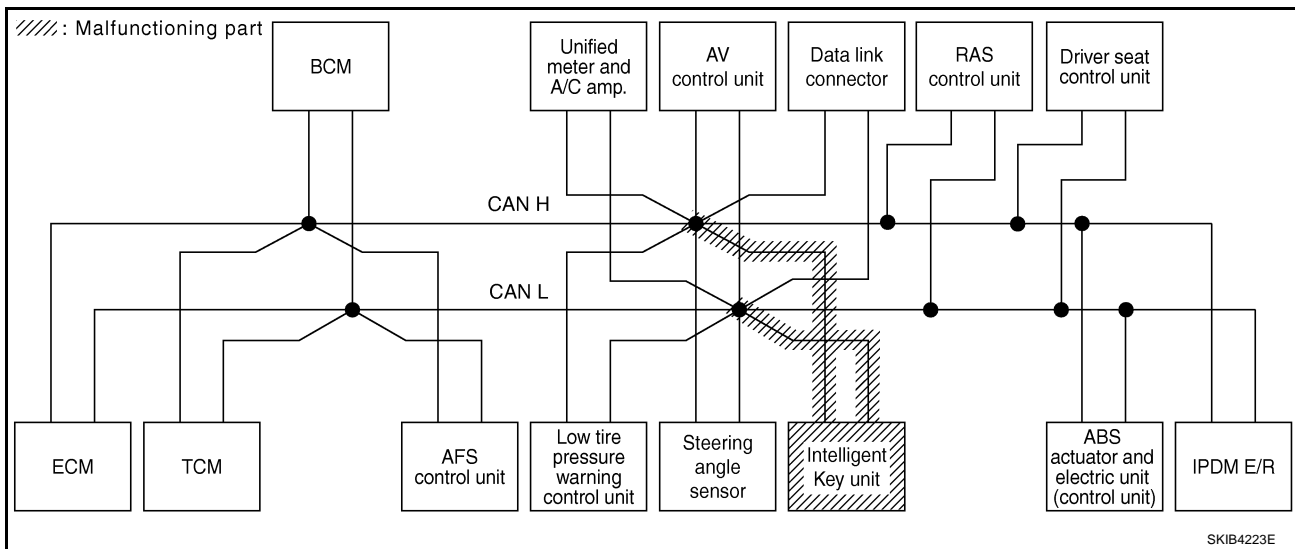
[CAN]

## Case 11

Check Intelligent Key unit circuit. Refer to [LAN-309, "Intelligent Key Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	✓	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	✓	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8457E



SKIB4223E

# CAN SYSTEM (TYPE 6)

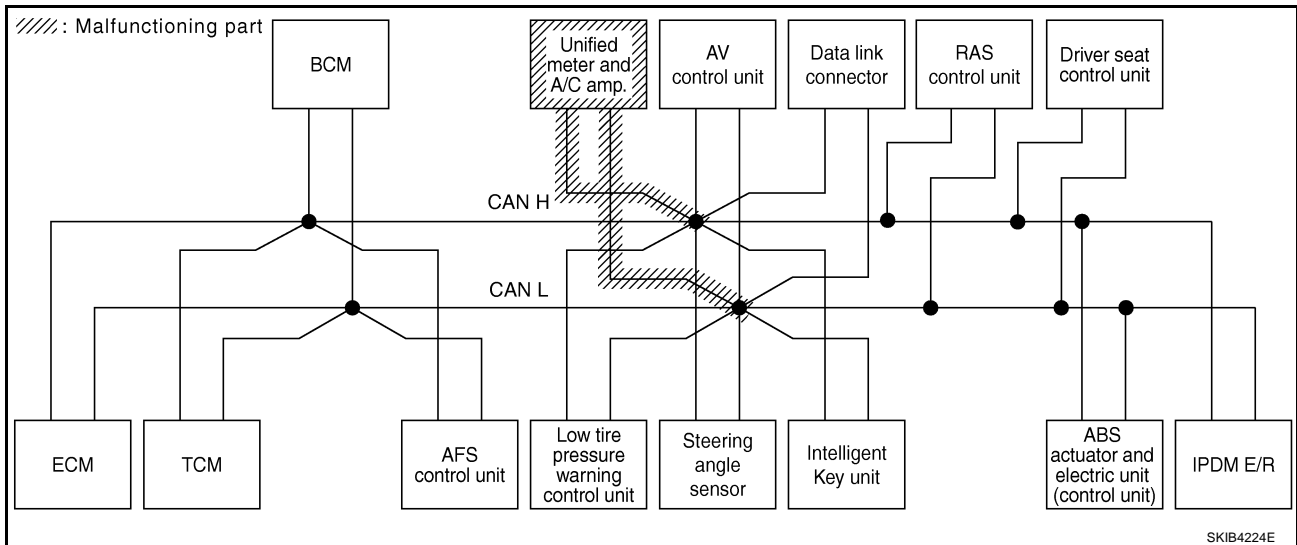
[CAN]

## Case 12

Check unified meter and A/C amp. circuit. Refer to [LAN-309, "Unified Meter and A/C Amp. Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8458E



SKIB4224E

# CAN SYSTEM (TYPE 6)

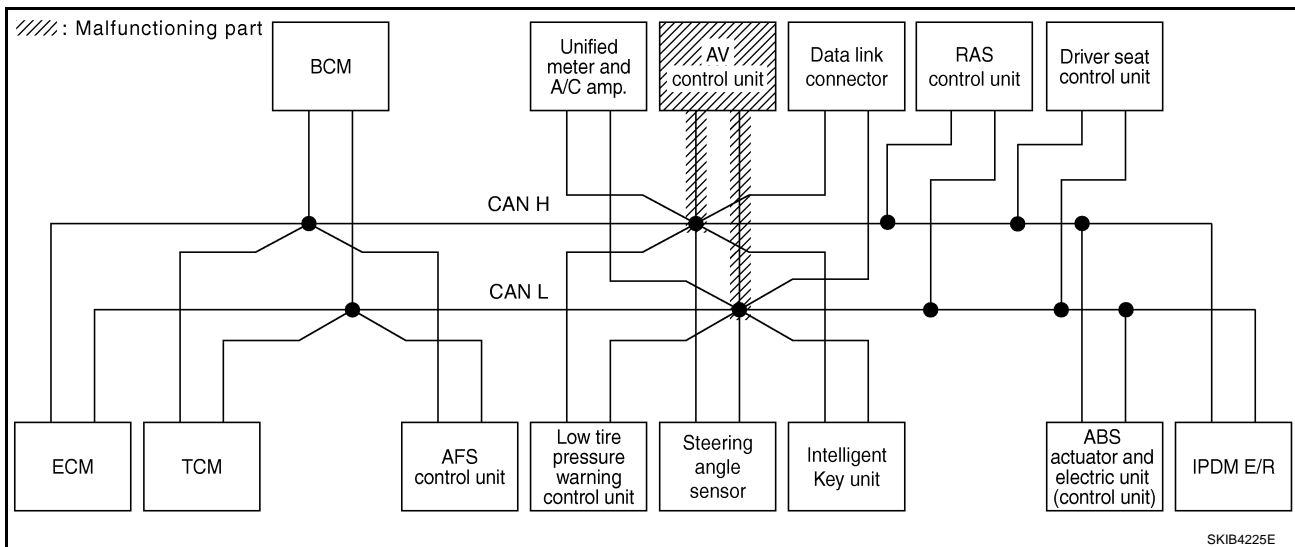
[CAN]

## Case 13

Check AV control unit circuit. Refer to [LAN-310, "AV Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	UNKNWN				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKNWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKNWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8459E



SKIB4225E

# CAN SYSTEM (TYPE 6)

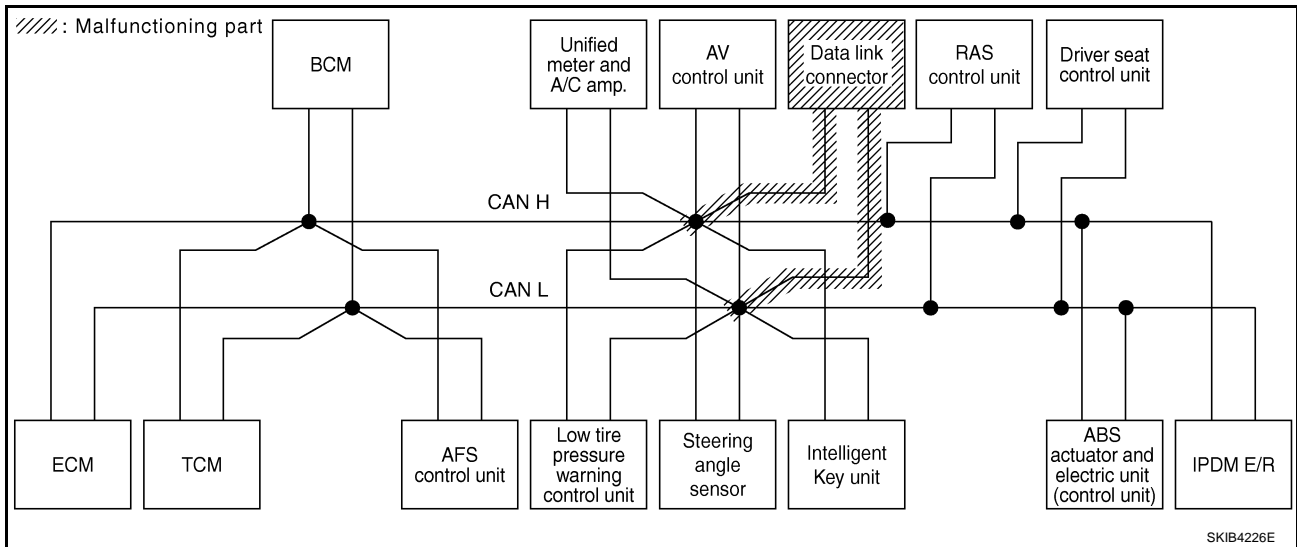
[CAN]

## Case 14

Check data link connector circuit. Refer to [LAN-310, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8460E



# CAN SYSTEM (TYPE 6)

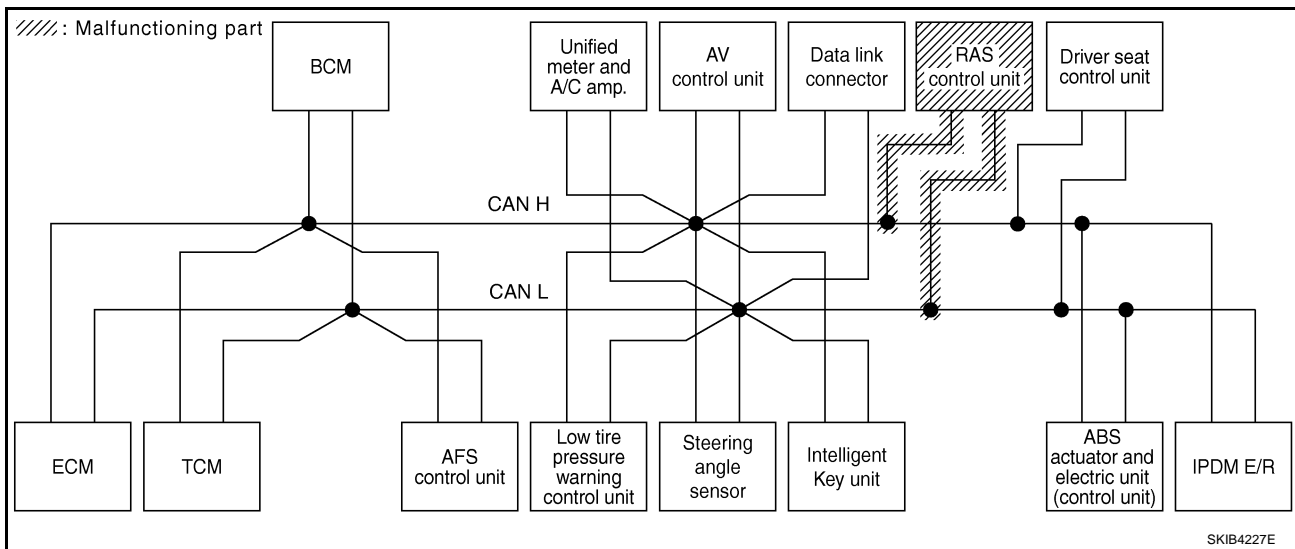
[CAN]

## Case 15

Check RAS control unit circuit. Refer to [LAN-311, "RAS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8461E



SKIB4227E

# CAN SYSTEM (TYPE 6)

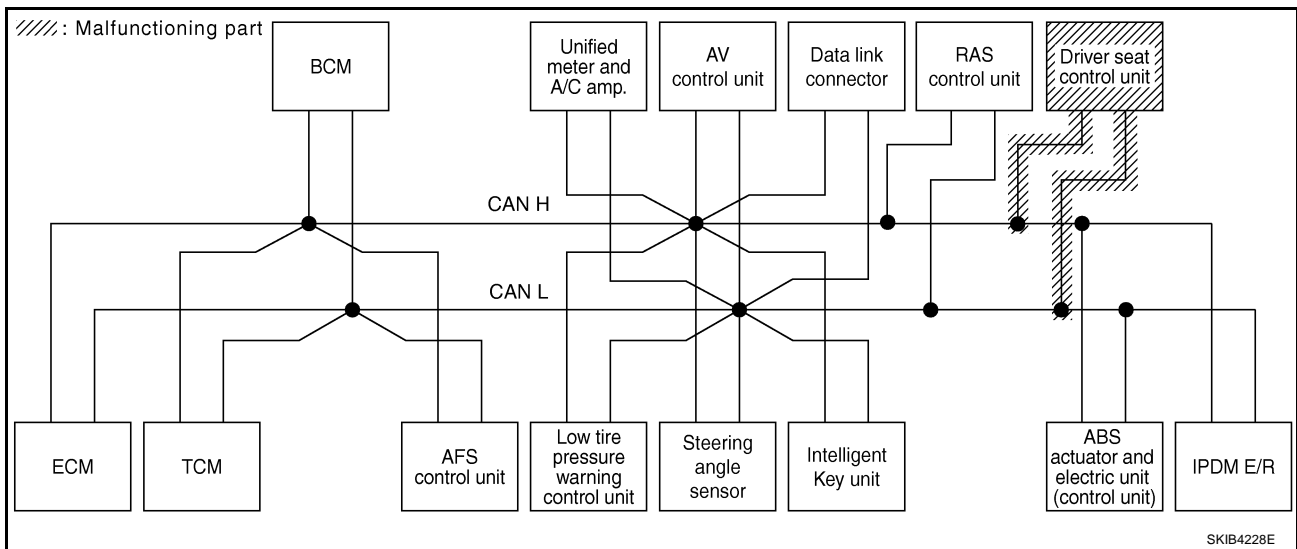
[CAN]

## Case 16

Check driver seat control unit circuit. Refer to [LAN-311, "Driver Seat Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8462E



A  
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# CAN SYSTEM (TYPE 6)

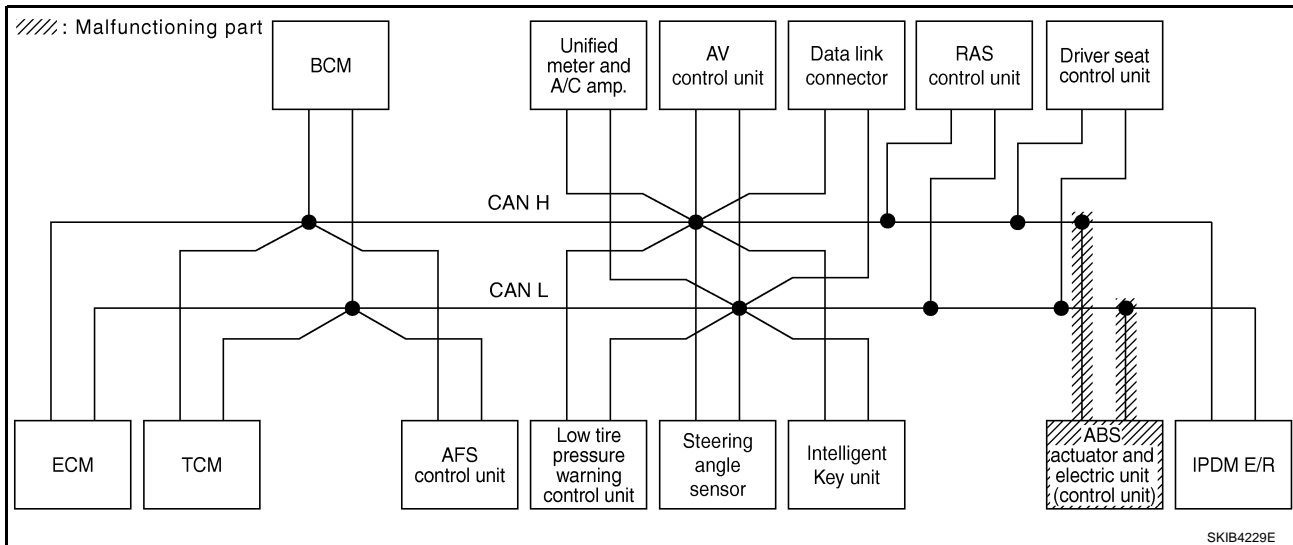
[CAN]

## Case 17

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-312. "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8463E



SKIB4229E



# CAN SYSTEM (TYPE 6)

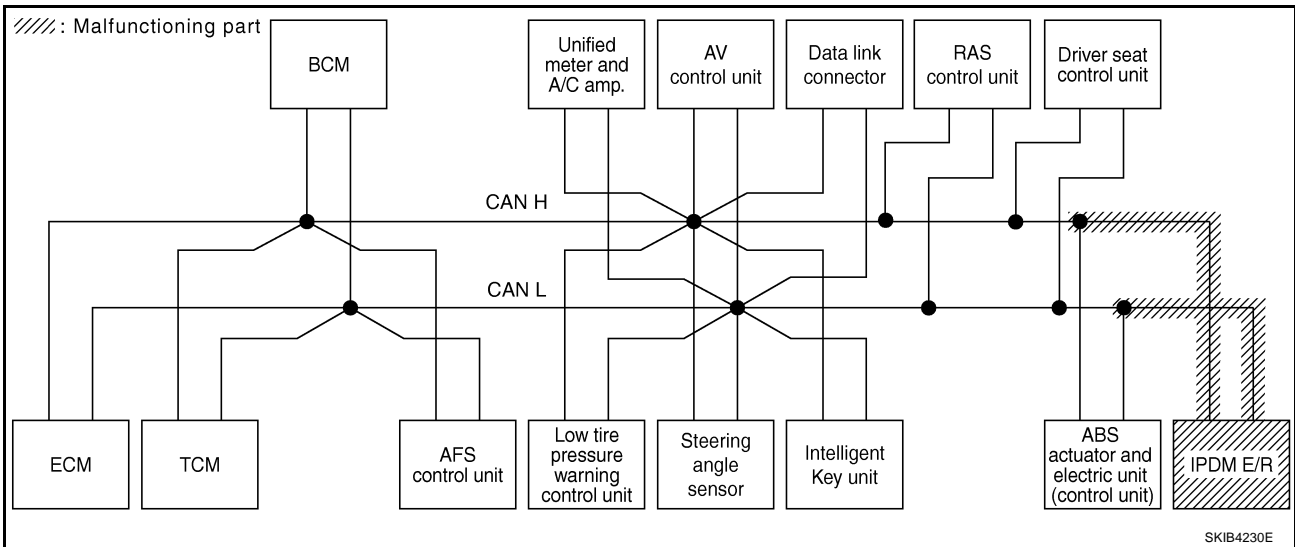
[CAN]

## Case 18

Check IPDM E/R circuit. Refer to [LAN-312. "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8464E



SKIB4230E

# CAN SYSTEM (TYPE 6)

[CAN]

## Case 19

Check CAN communication circuit. Refer to [LAN-313, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8465E

## Case 20

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-320, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8466E

## Case 21

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-320, "IPDM E/R Ignition Relay Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8467E

## Inspection Between TCM and Data Link Connector Circuit

NKS0041A

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

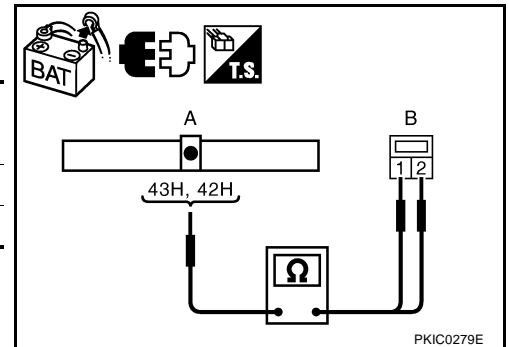
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.  
 NG >> Repair harness.



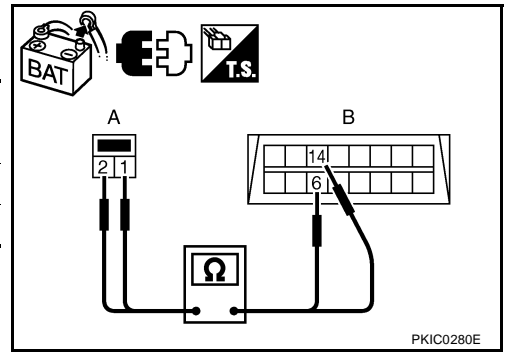
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and RAS Control Unit Circuit

NKS0041B

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

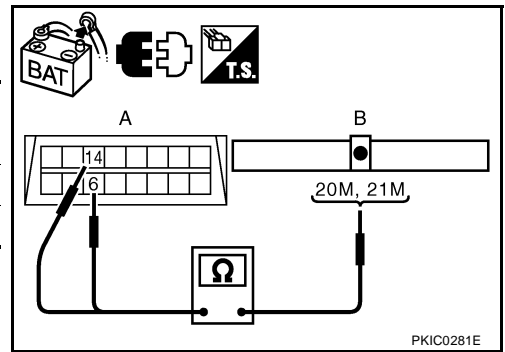
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



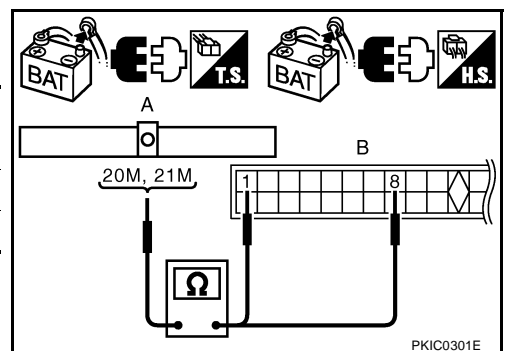
#### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect RAS control unit connector.
2. Check continuity between harness connector (A) and RAS control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B127	1	Yes
	21M		8	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



## Inspection Between RAS Control Unit and Driver Seat Control Unit Circuit

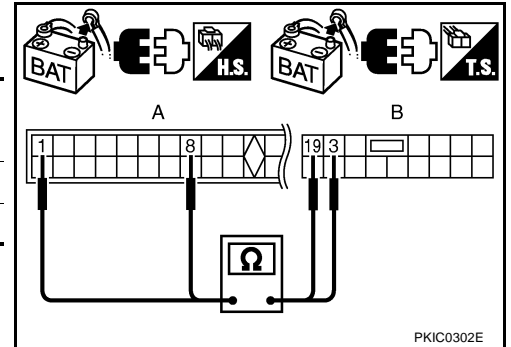
### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - RAS control unit connector
  - Harness connector B15
4. Check continuity between RAS control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B127	1	B15	3	Yes
	8		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

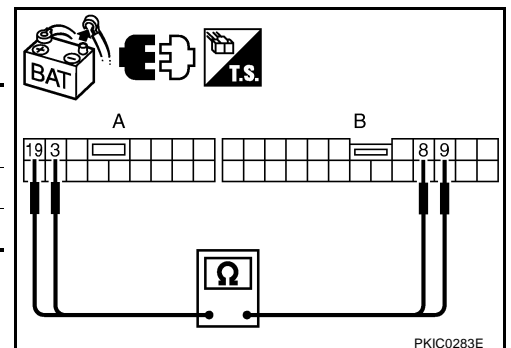
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

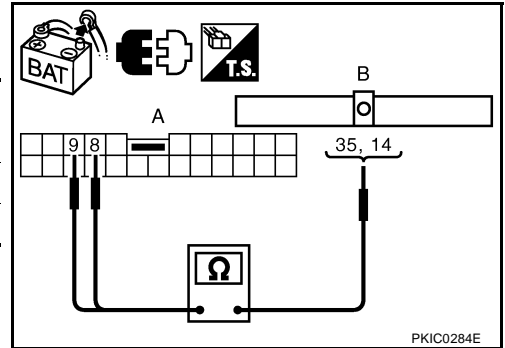
- OK >> GO TO 3.
- NG >> Replace harness.



### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.

### ECM Circuit Inspection

NKS0041E

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

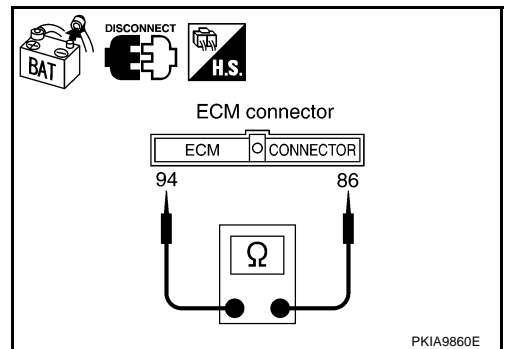
**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω



**OK or NG**

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.

### TCM Circuit Inspection

NKS0041F

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

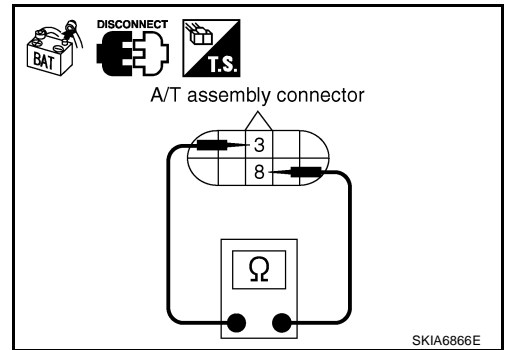
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.
- NG >> Repair harness between A/T assembly and AFS control unit.



NKS0041G

**AFS Control Unit Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

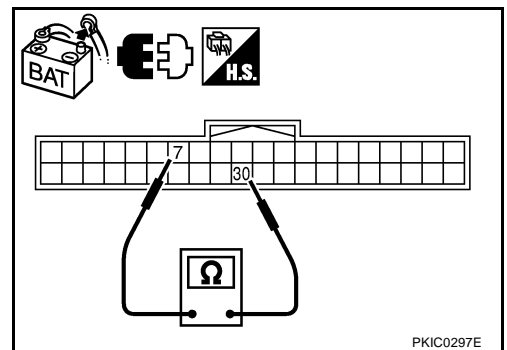
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
F110	30	7	54 – 66 Ω

**OK or NG**

- OK >> Replace AFS control unit.
- NG >> Repair harness between AFS control unit and BCM.



NKS0041H

**BCM Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

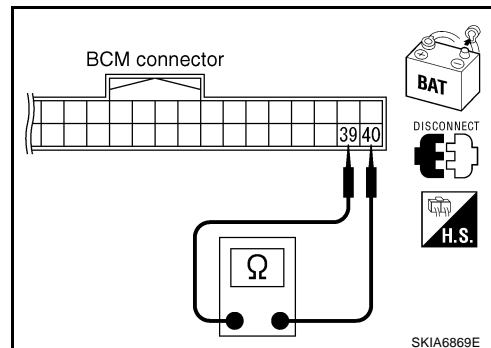
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

**OK or NG**

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#) .
- NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

NKS00411

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

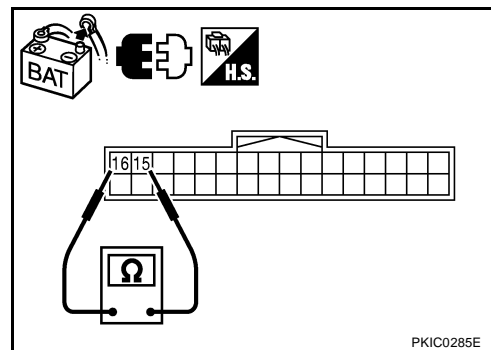
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

**OK or NG**

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS0041J

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.



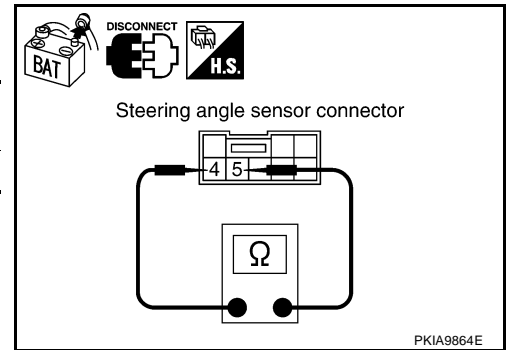
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
	4	5	
M47	4	5	54 – 66 Ω

**OK or NG**

- OK >> Replace steering angle sensor.  
 NG >> Repair harness between steering angle sensor and data link connector.



NKS0041K

## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

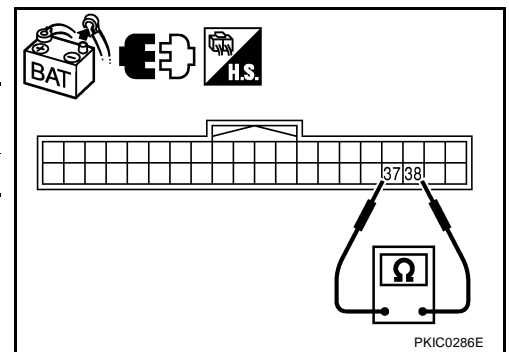
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
	38	37	
M32	38	37	54 – 66 Ω

**OK or NG**

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS0041L

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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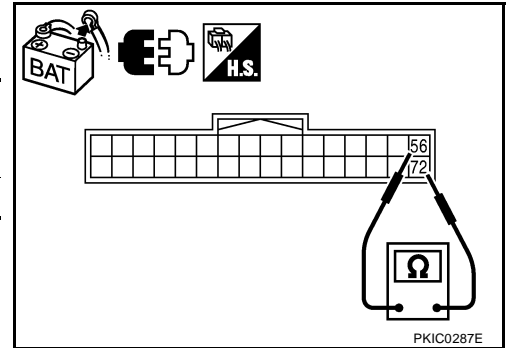
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
	56	72	
M65	56	72	54 – 66 Ω

### OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS0041M

## AV Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AV control unit connector
  - Harness connector M216
  - Harness connector M53

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

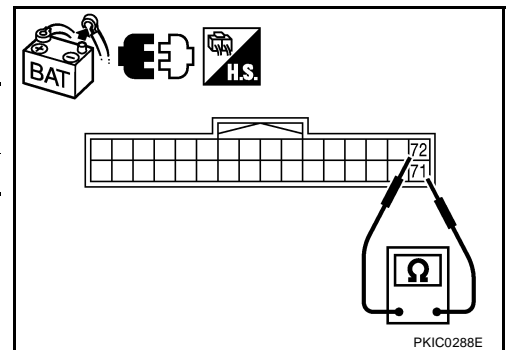
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AV control unit connector.
2. Check resistance between AV control unit harness connector terminals.

AV control unit connector	Terminal		Resistance (Approx.)
	71	72	
M210	71	72	54 – 66 Ω

### OK or NG

- OK >> Replace AV control unit.  
 NG >> Repair harness between AV control unit and data link connector.



NKS0041N

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

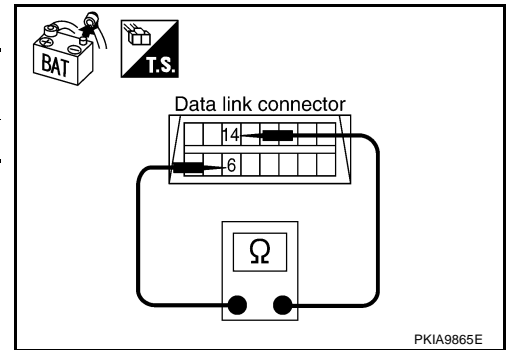
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

### OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



## RAS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of RAS control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

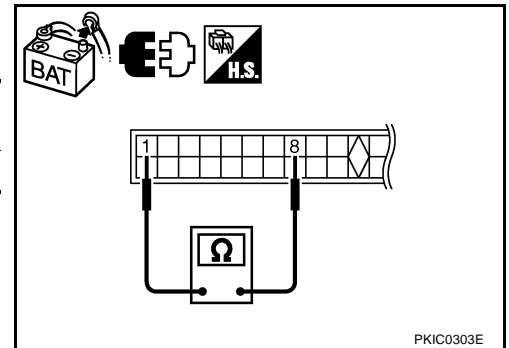
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect RAS control unit connector.
2. Check resistance between RAS control unit harness connector terminals.

RAS control unit connector	Terminal		Resistance (Approx.)
B127	1	8	54 – 66 Ω

### OK or NG

- OK >> Replace RAS control unit.
- NG >> Replace harness.



## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

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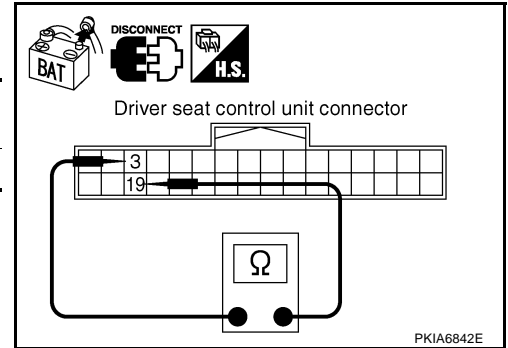
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

**OK or NG**

- OK >> Replace driver seat control unit.  
 NG >> Replace harness.



## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

NKS0041Q

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

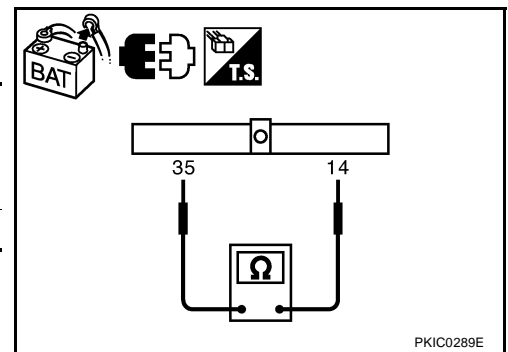
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

**OK or NG**

- OK >> Replace ABS actuator and electric unit (control unit).  
 NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



## IPDM E/R Circuit Inspection

NKS0041R

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

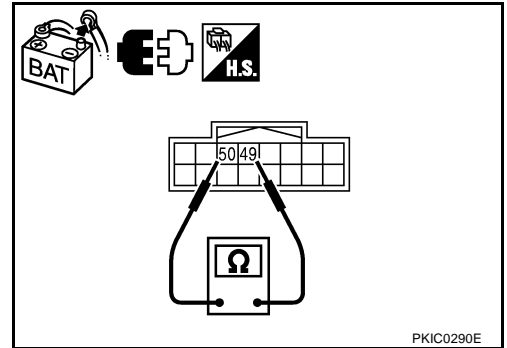
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

### OK or NG

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and harness connector E105.



NKS0041S

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - RAS control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
    - Between ECM and A/T assembly
    - Between ECM and AFS control unit
    - Between ECM and AV control unit
    - Between ECM and driver seat control unit
    - Between ECM and IPDM E/R

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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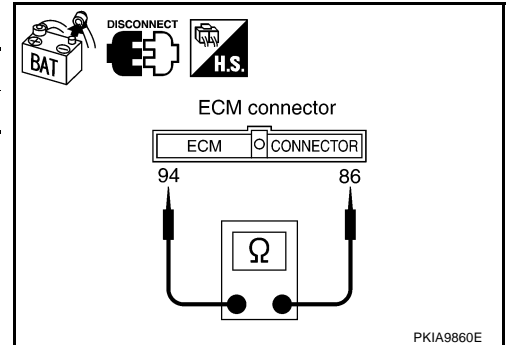
## 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

### OK or NG

- OK >> GO TO 3.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



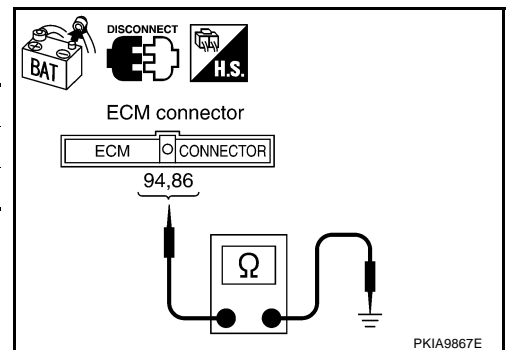
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		No
	86	No	

### OK or NG

- OK >> GO TO 4.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



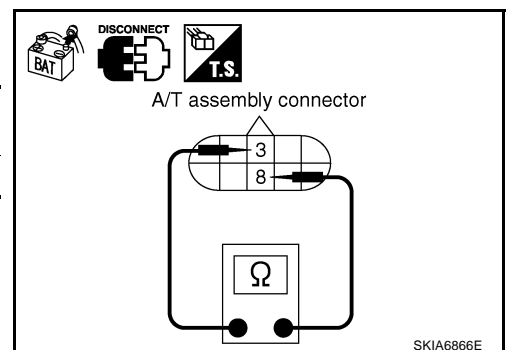
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

### OK or NG

- OK >> GO TO 5.  
 NG >> Repair harness between A/T assembly and harness connector F102.



### 5. CHECK HARNESS FOR SHORT CIRCUIT

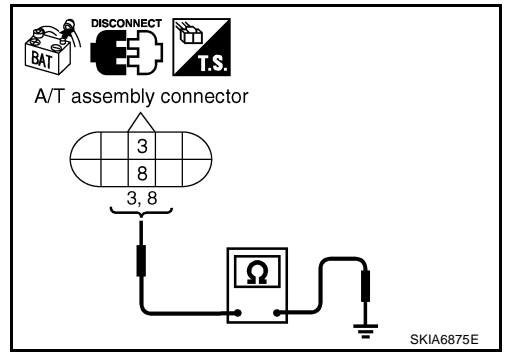
Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

OK or NG

OK >> GO TO 6.

NG >> Repair harness between A/T assembly and harness connector F102.



### 6. CHECK HARNESS FOR SHORT CIRCUIT

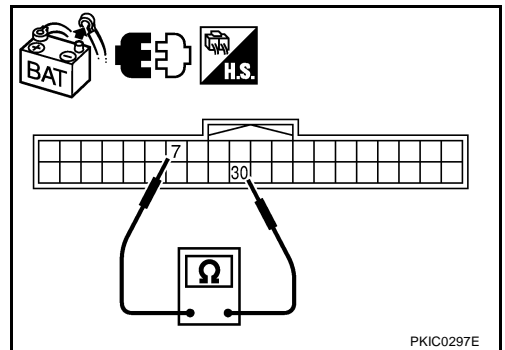
1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal	Continuity
F110	30	No

OK or NG

OK >> GO TO 7.

NG >> Repair harness between AFS control unit and harness connector F102.



### 7. CHECK HARNESS FOR SHORT CIRCUIT

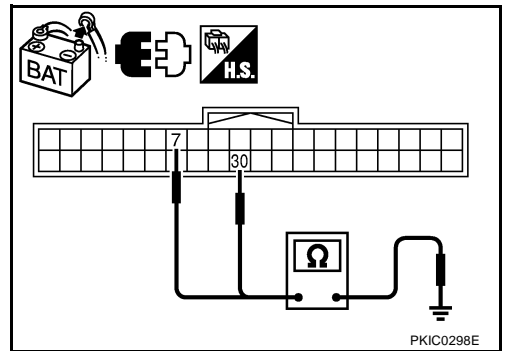
Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		
	7	No	

OK or NG

OK >> GO TO 8.

NG >> Replace harness between AFS control unit and harness connector F102.



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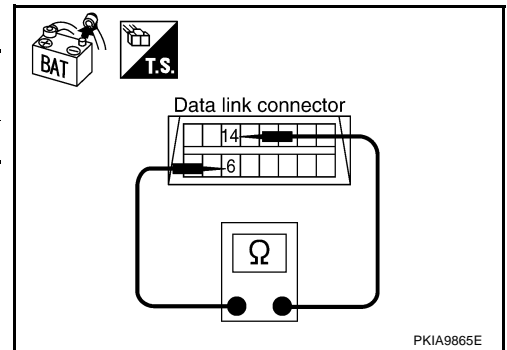
**8. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

Data link connector	Terminal		Continuity
	6	14	
M60			No

**OK or NG**

- OK >> GO TO 9.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



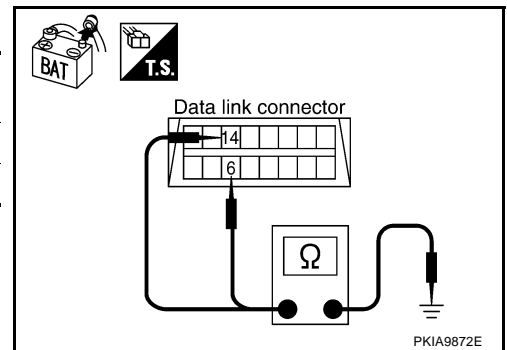
**9. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between data link connector terminals and ground.

Data link connector	Terminal	Ground	Continuity
	M60		6
	14	No	

**OK or NG**

- OK >> GO TO 10.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13





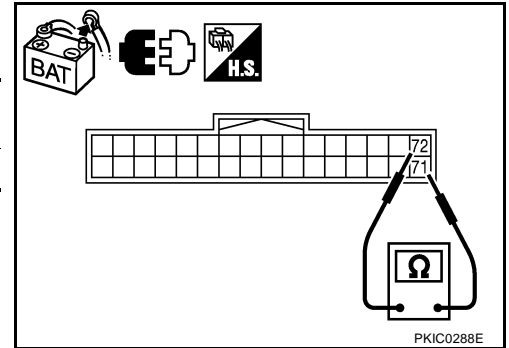
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect AV control unit connector.
2. Check continuity between AV control unit harness connector terminals.

AV control unit connector	Terminal		Continuity
M210	71	72	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Repair harness between AV control unit and harness connector M216.



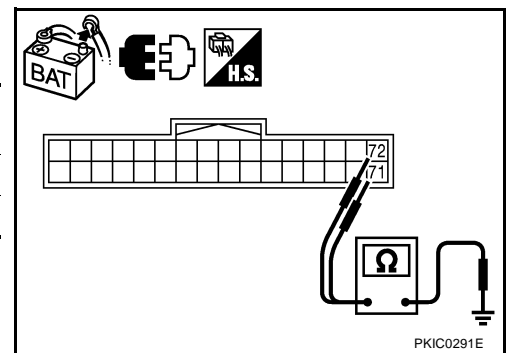
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between AV control unit harness connector terminals and ground.

AV control unit connector	Terminal	Ground	Continuity
M210	71		No
	72	No	

**OK or NG**

- OK >> GO TO 12.  
 NG >> Repair harness between AV control unit and harness connector M216.



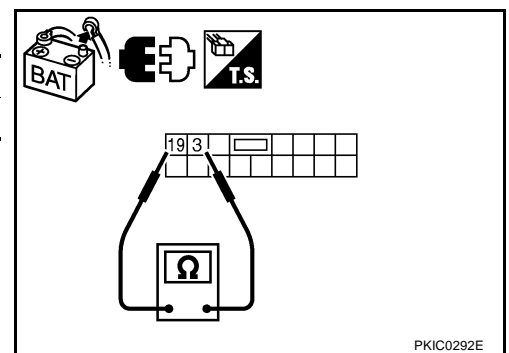
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - RAS control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Replace harness.



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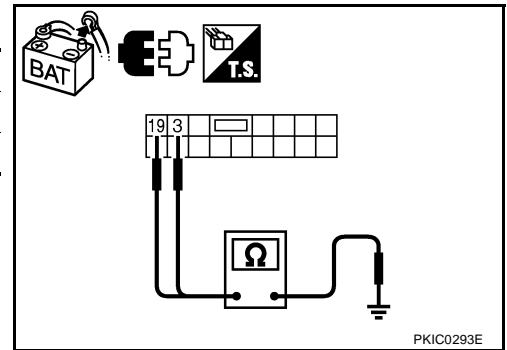
### 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19	No	

OK or NG

- OK >> GO TO 14.
- NG >> Replace harness.



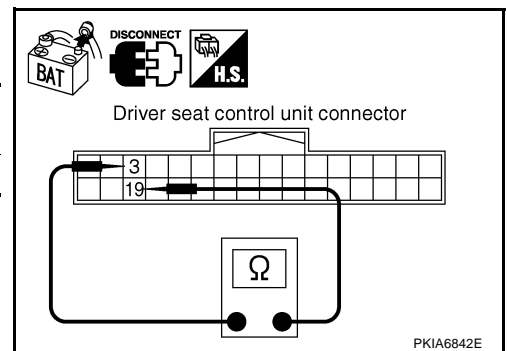
### 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal	Continuity
B204	3	No
	19	No

OK or NG

- OK >> GO TO 15.
- NG >> Repair harness between driver seat control unit and harness connector B202.



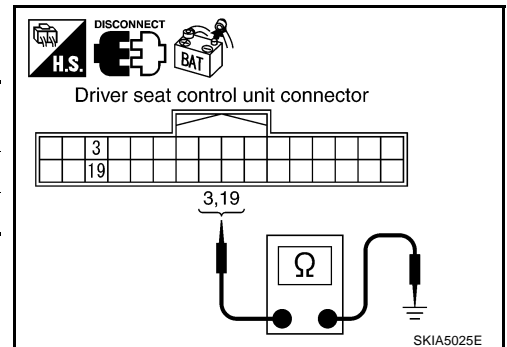
### 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

OK or NG

- OK >> GO TO 16.
- NG >> Repair harness between driver seat control unit and harness connector B202.



## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

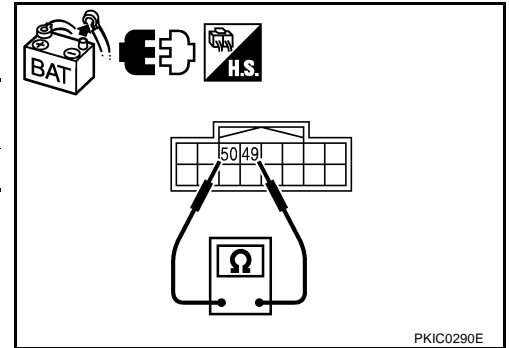
IPDM E/R connector	Terminal		Continuity
	49	50	
E9	49	50	No

### OK or NG

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0290E

## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

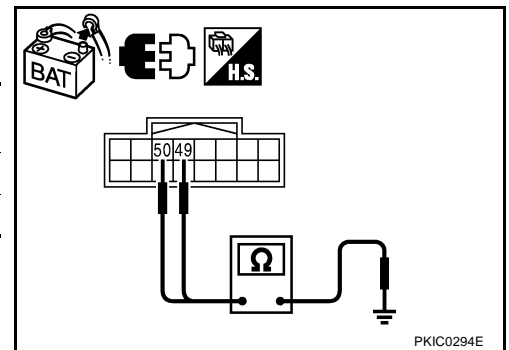
IPDM E/R connector	Terminal	Ground	Continuity
	49		No
E9	50	Ground	No

### OK or NG

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0294E

## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

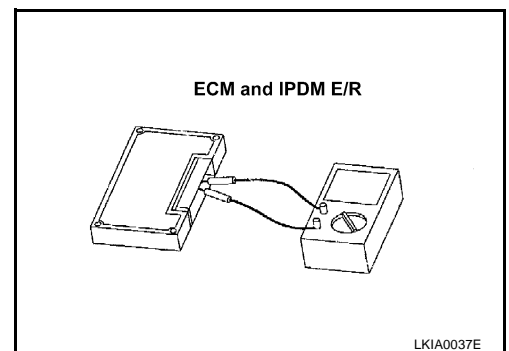
3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω

### OK or NG

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



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## 19. CHECK SYMPTOM

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1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

---

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - RAS control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

NKS0041T

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)

# CAN SYSTEM (TYPE 7)

[CAN]

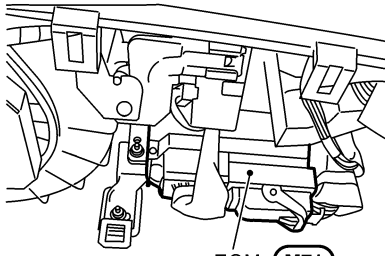
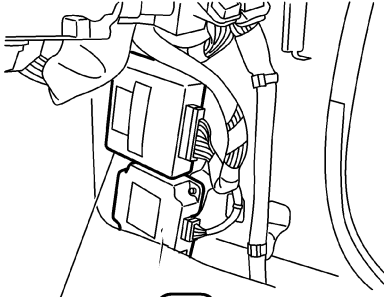
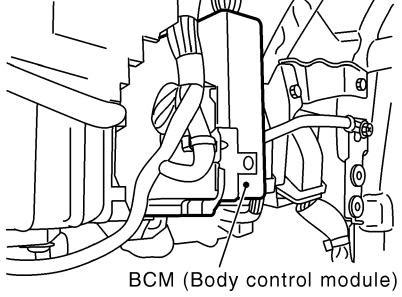
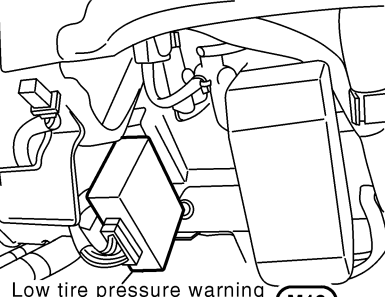
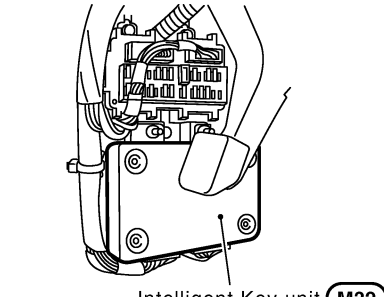
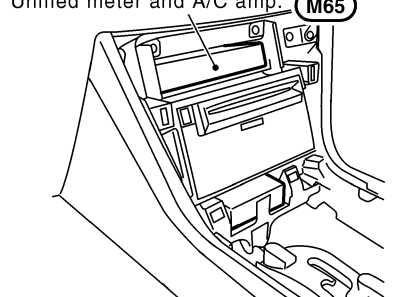
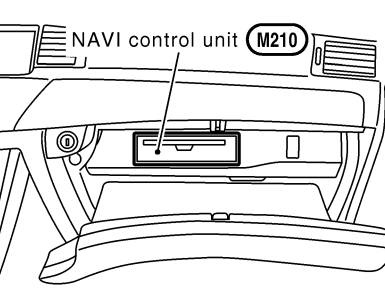
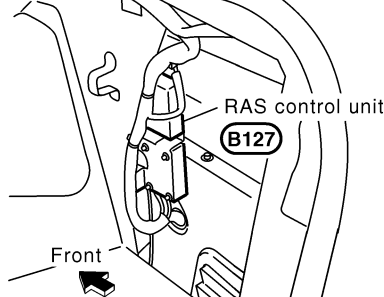
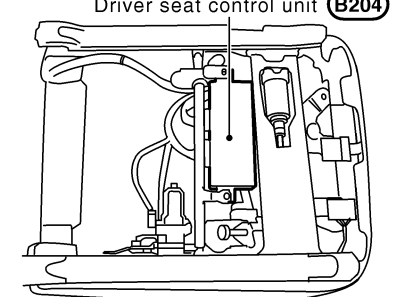
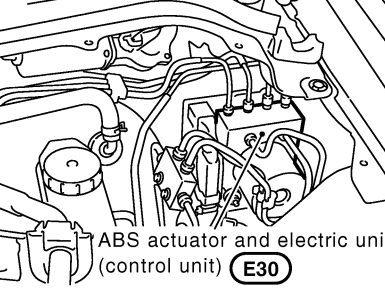
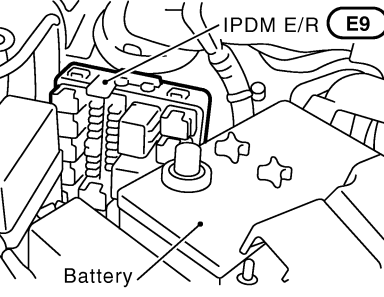
PF2:23710

NKS0041U

## CAN SYSTEM (TYPE 7)

### Component Parts and Harness Connector Location

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>NAVI control unit (M210)</p>	<p>View with trunk side RH finisher removed</p>  <p>RAS control unit (B127)</p> <p>Front</p>	<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>
<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>	

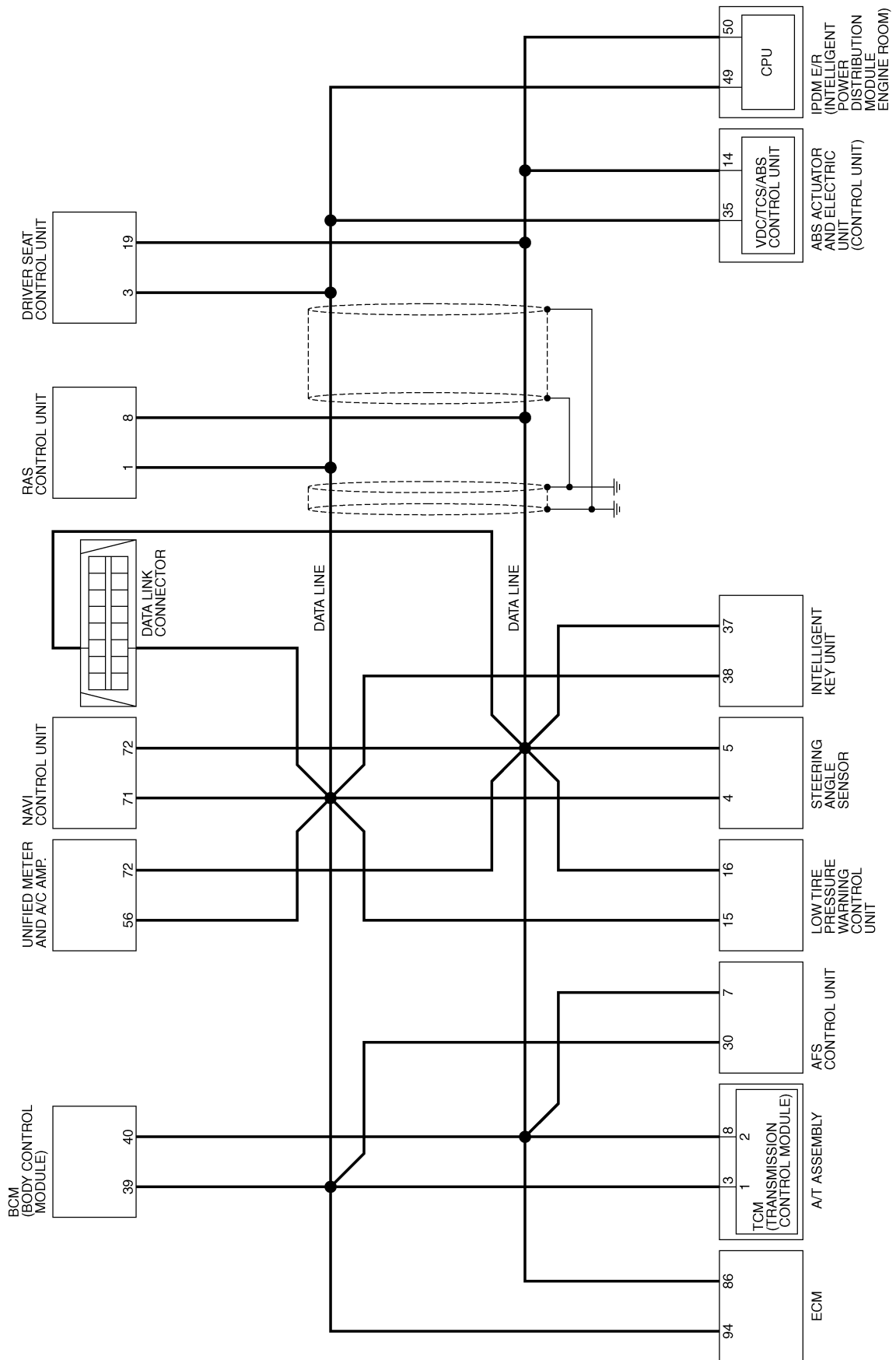
PKIC0605E

# CAN SYSTEM (TYPE 7)

[CAN]

## Schematic

NKS0041V



TKW73275E

# CAN SYSTEM (TYPE 7)

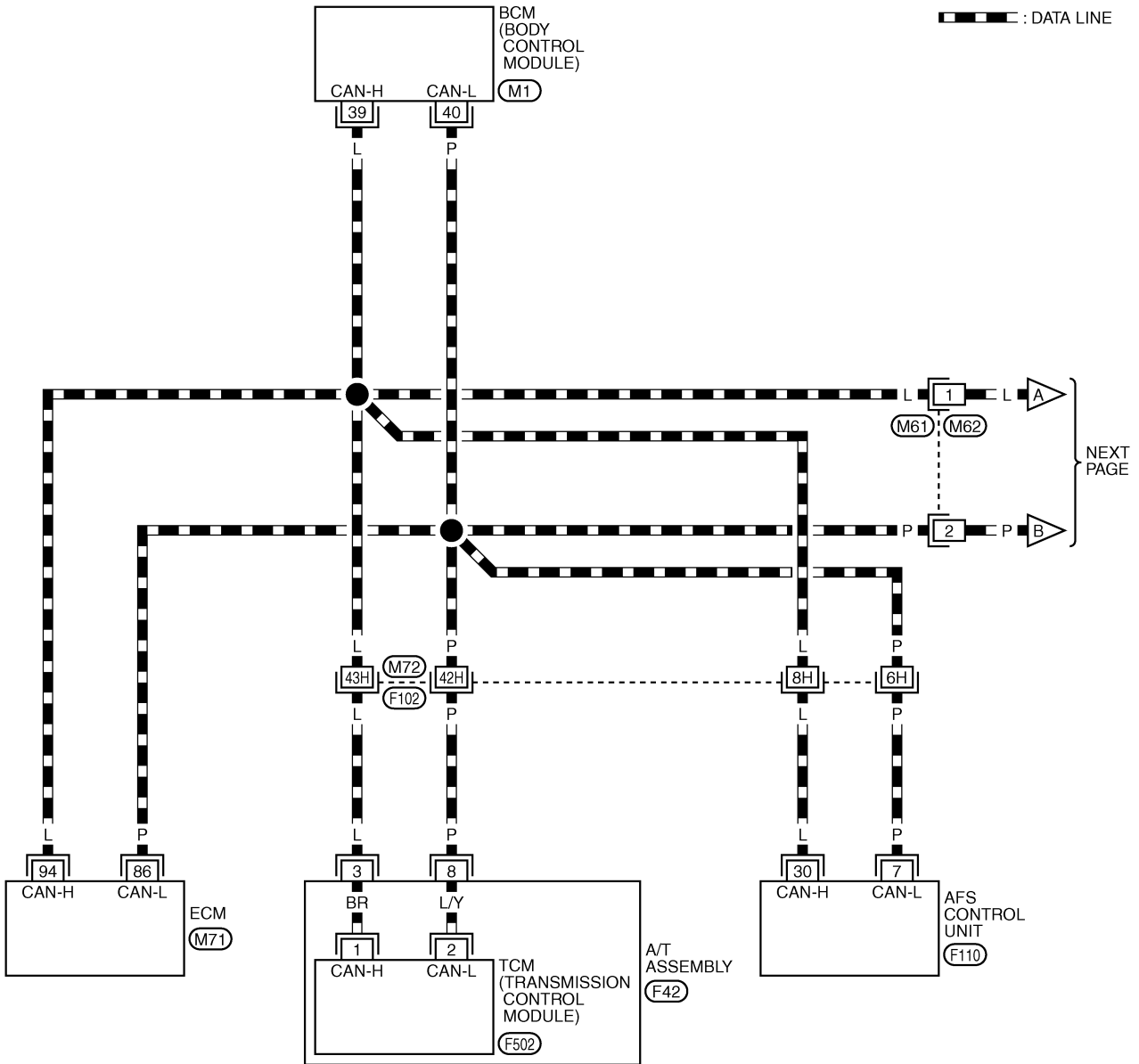
[CAN]

NKS0041W

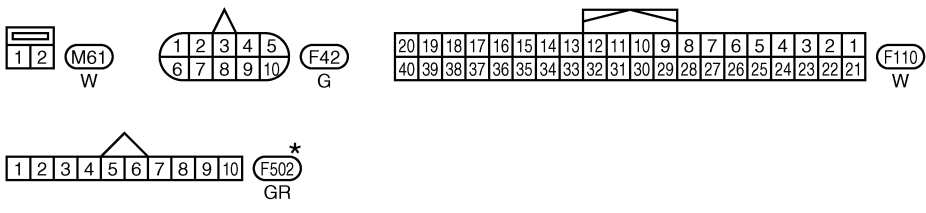
## Wiring Diagram — CAN —

LAN-CAN-23

▬ : DATA LINE



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M



REFER TO THE FOLLOWING.  
 (F102) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

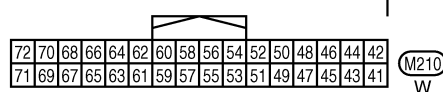
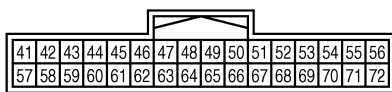
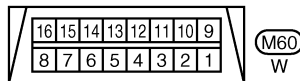
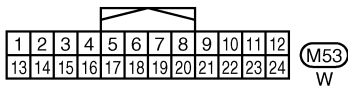
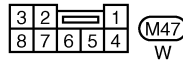
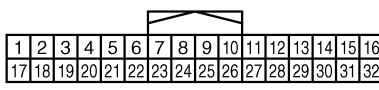
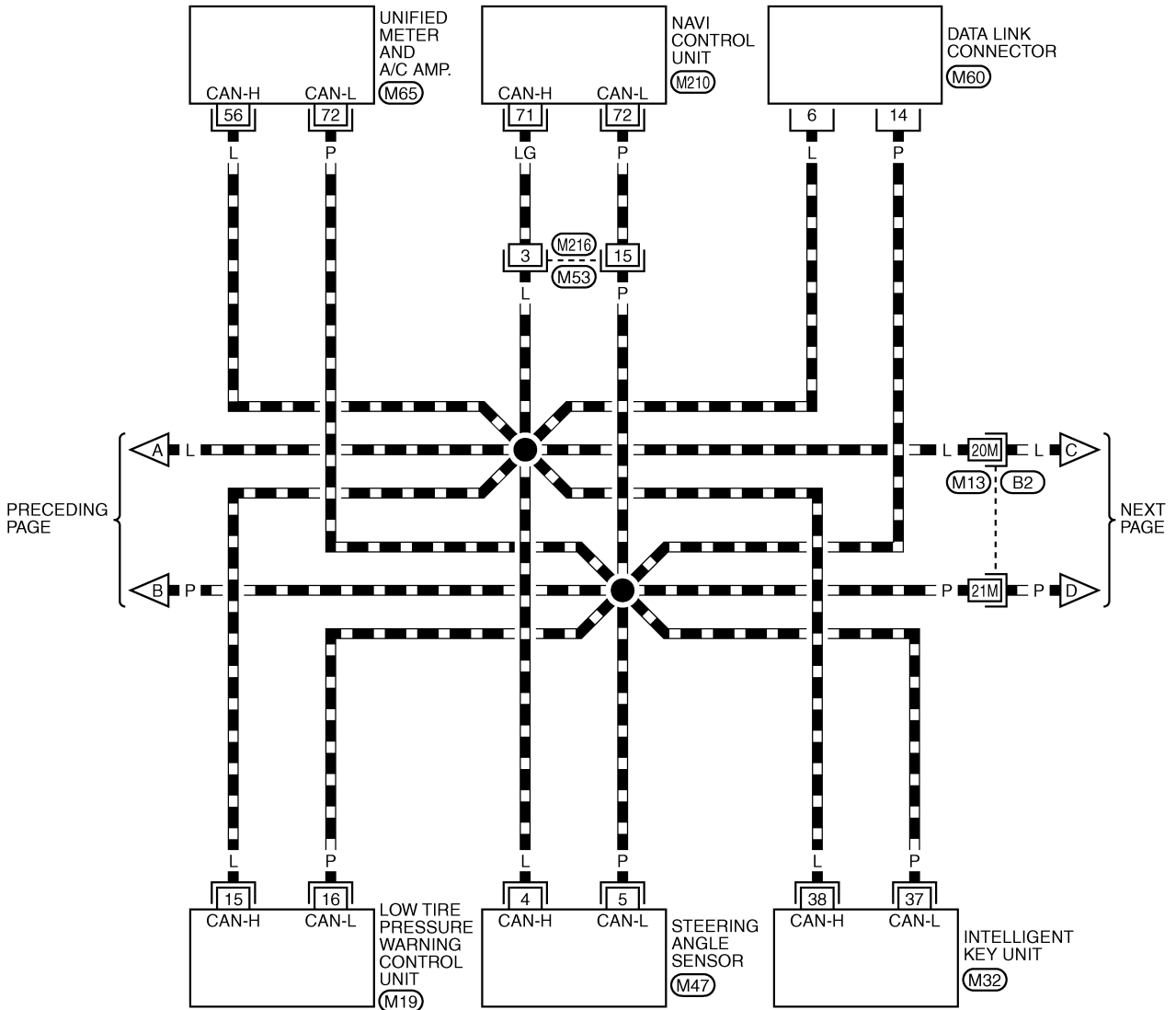
TKWT3276E

# CAN SYSTEM (TYPE 7)

[CAN]

## LAN-CAN-24

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

TKWT3277E

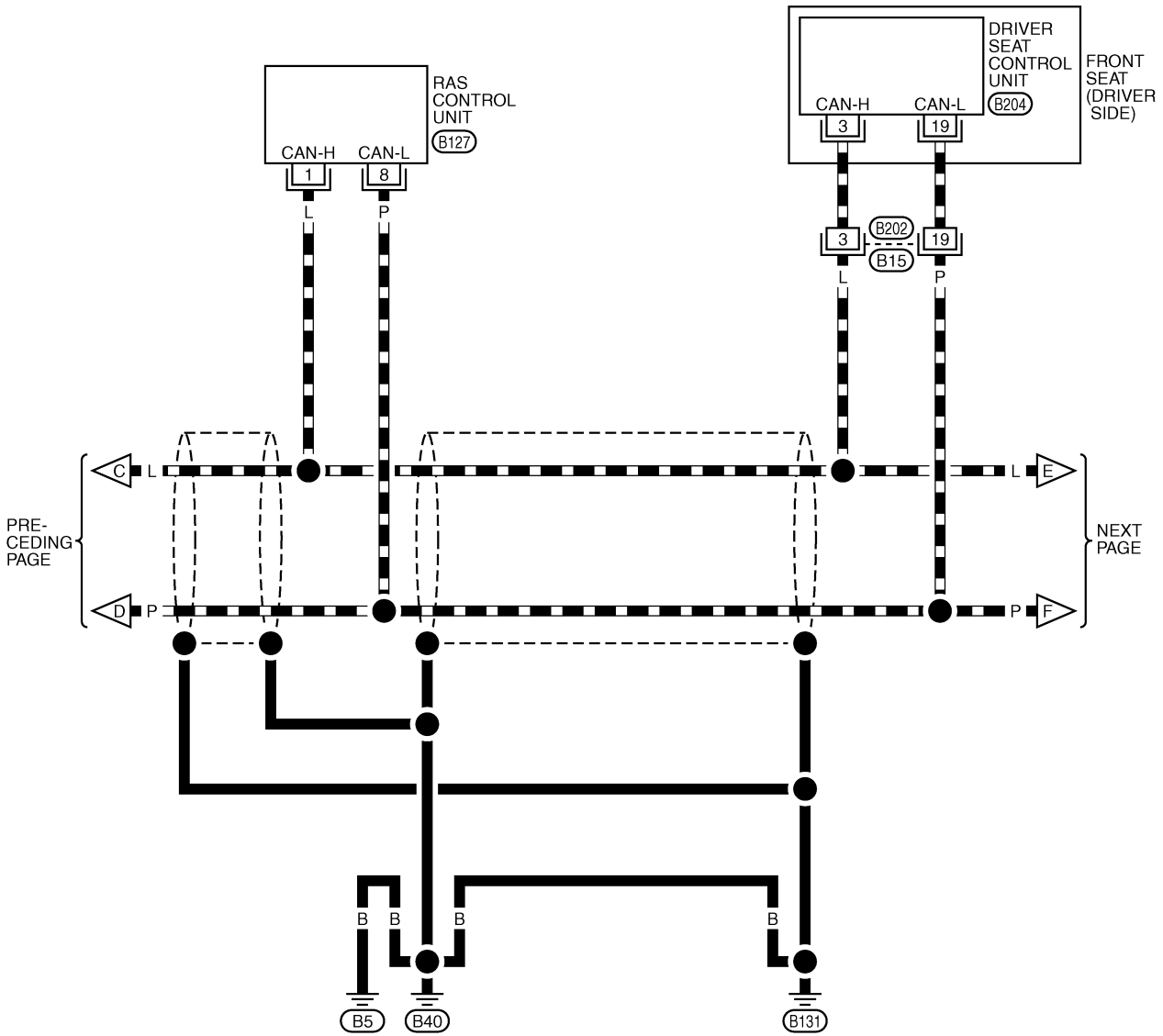


# CAN SYSTEM (TYPE 7)

[CAN]

## LAN-CAN-25

▬ : DATA LINE



19	3	1		17	40
61	60	59	32	48	21

(B15)  
W

1	2	3	4	5	6	7	8	9	10	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
11	12	13	14	15	16	17	18	19	20																					

(B127)  
W



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

(B204)  
W



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

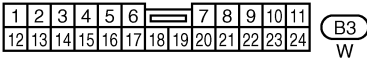
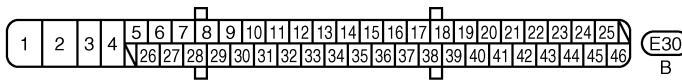
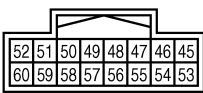
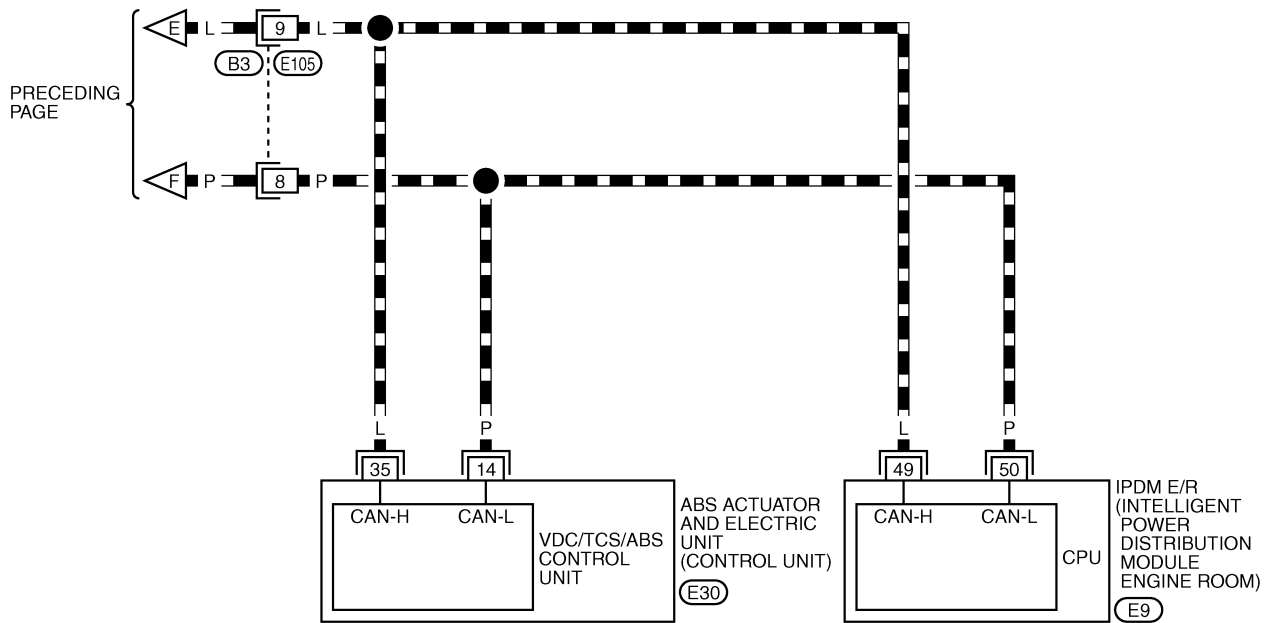
TKWT3278E

# CAN SYSTEM (TYPE 7)

[CAN]

## LAN-CAN-26

▬ : DATA LINE



TKWT3279E

# CAN SYSTEM (TYPE 7)

[CAN]

NKS0041X

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8446E

# CAN SYSTEM (TYPE 7)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
RAS/HICAS  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9561E

# CAN SYSTEM (TYPE 7)

[CAN]

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
RAS/HICAS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9562E

# CAN SYSTEM (TYPE 7)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

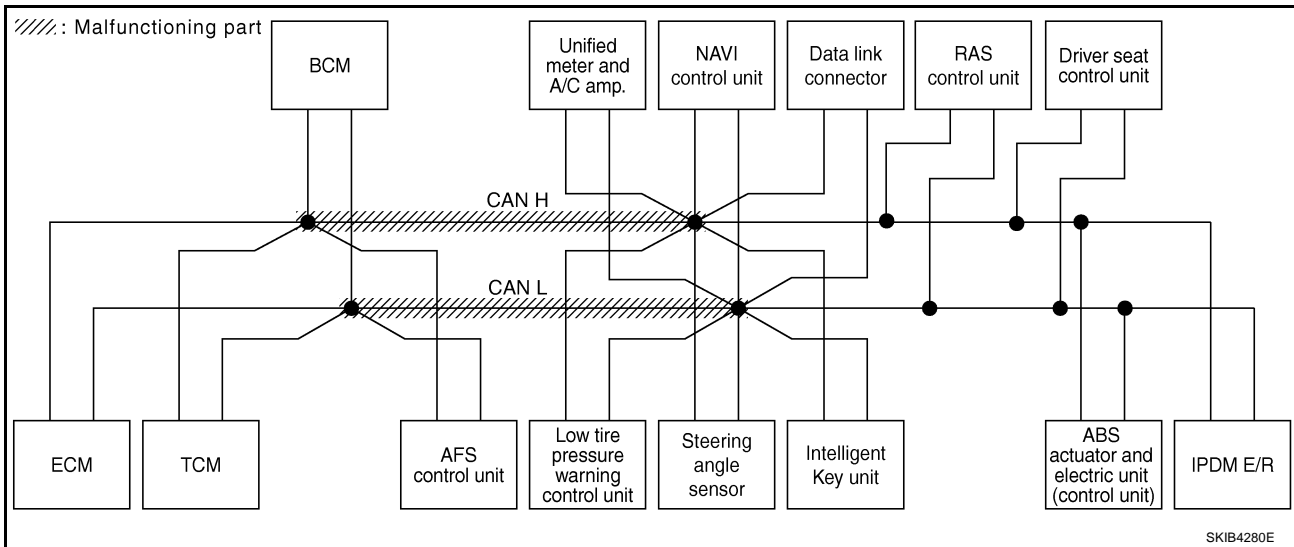
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-349, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS						
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R							
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8447E



SKIB4280E

# CAN SYSTEM (TYPE 7)

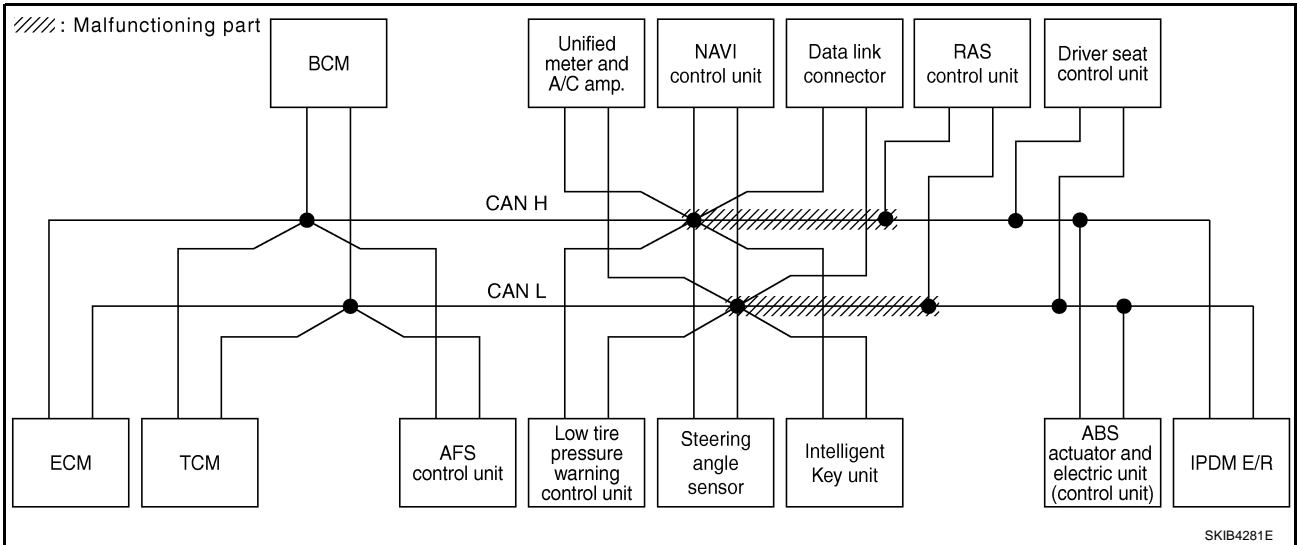
[CAN]

## Case 2

Check harness between data link connector and RAS control unit. Refer to [LAN-350, "Inspection Between Data Link Connector and RAS Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8448E



SKIB4281E

# CAN SYSTEM (TYPE 7)

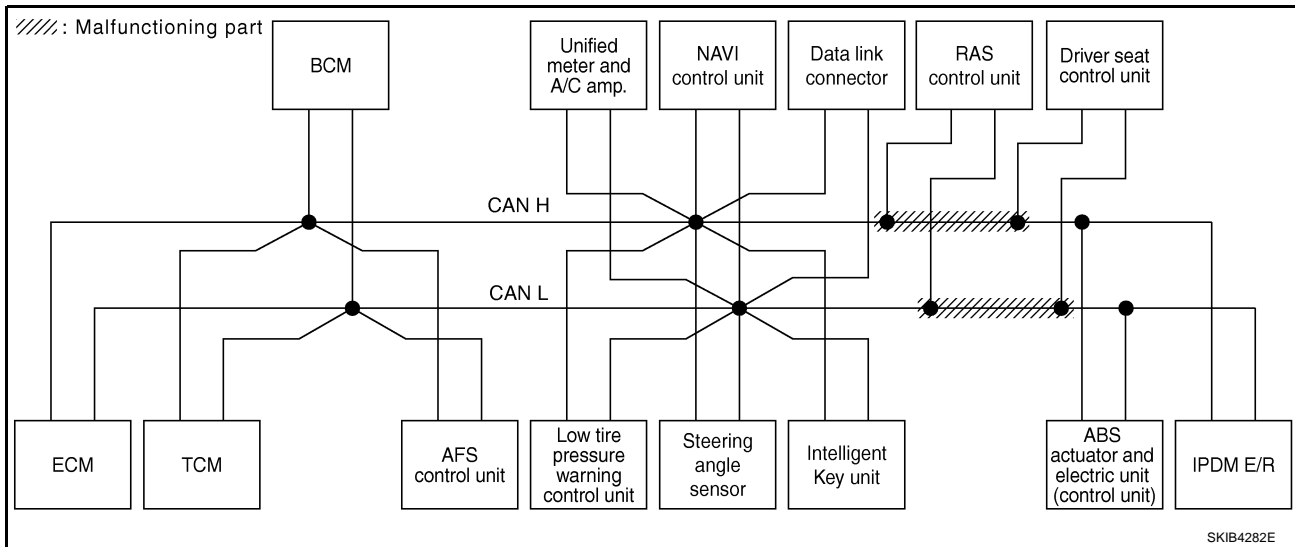
[CAN]

## Case 3

Check harness between RAS control unit and driver seat control unit. Refer to [LAN-351, "Inspection Between RAS Control Unit and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8449E





# CAN SYSTEM (TYPE 7)

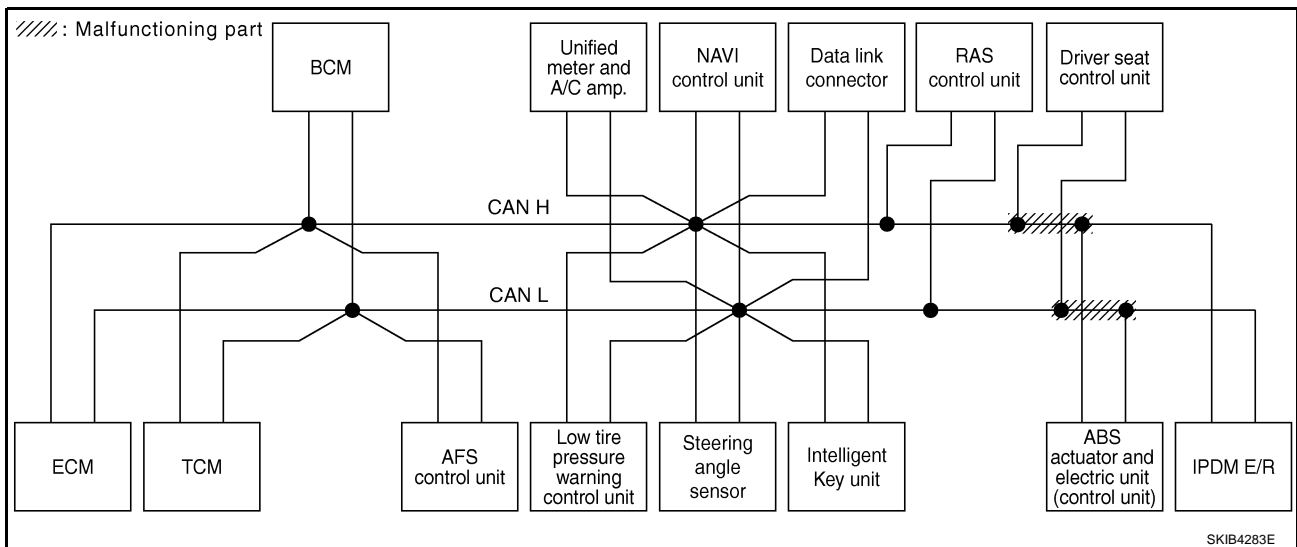
[CAN]

## Case 4

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-351, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8450E



SKIB4283E

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# CAN SYSTEM (TYPE 7)

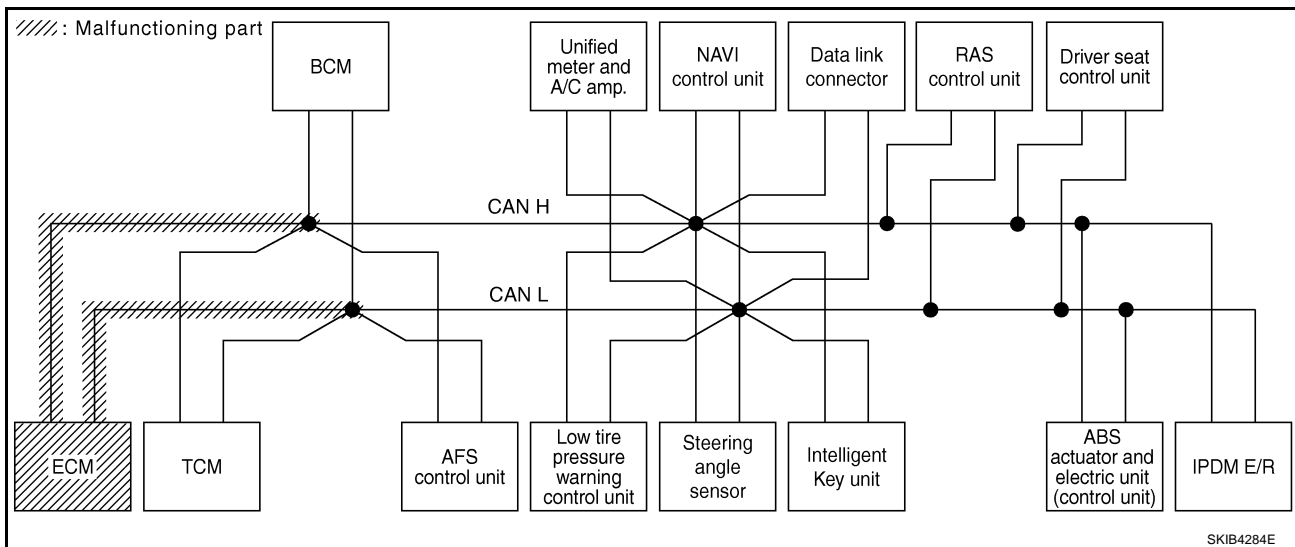
[CAN]

## Case 5

Check ECM circuit. Refer to [LAN-352, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8451E



SKIB4284E

# CAN SYSTEM (TYPE 7)

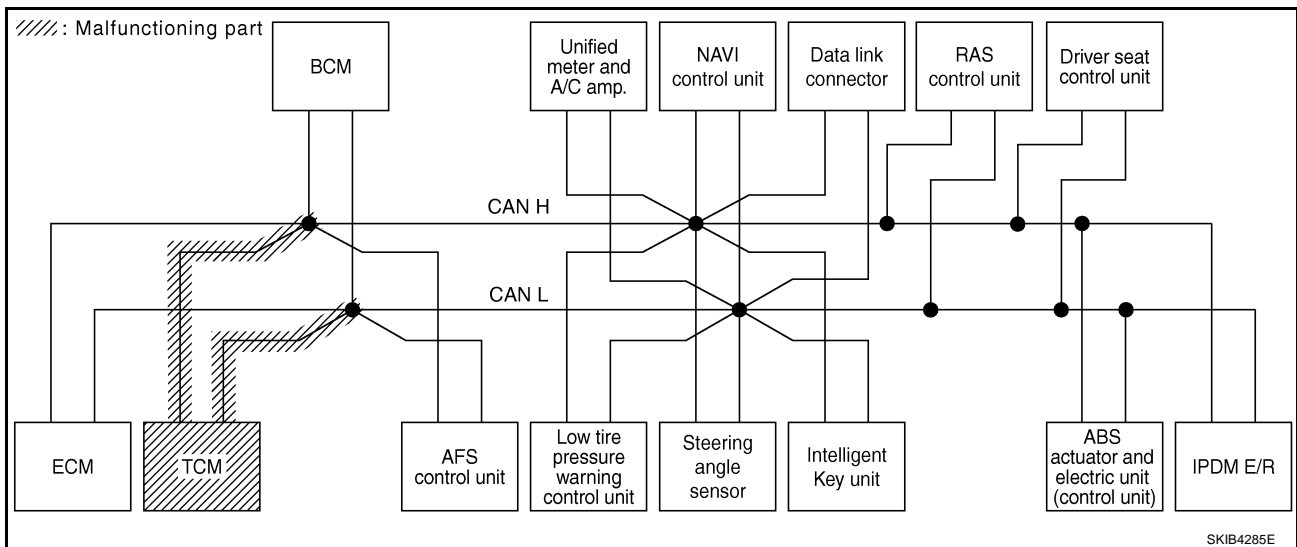
[CAN]

## Case 6

Check TCM circuit. Refer to [LAN-352. "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	✓	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8452E



SKIB4285E

# CAN SYSTEM (TYPE 7)

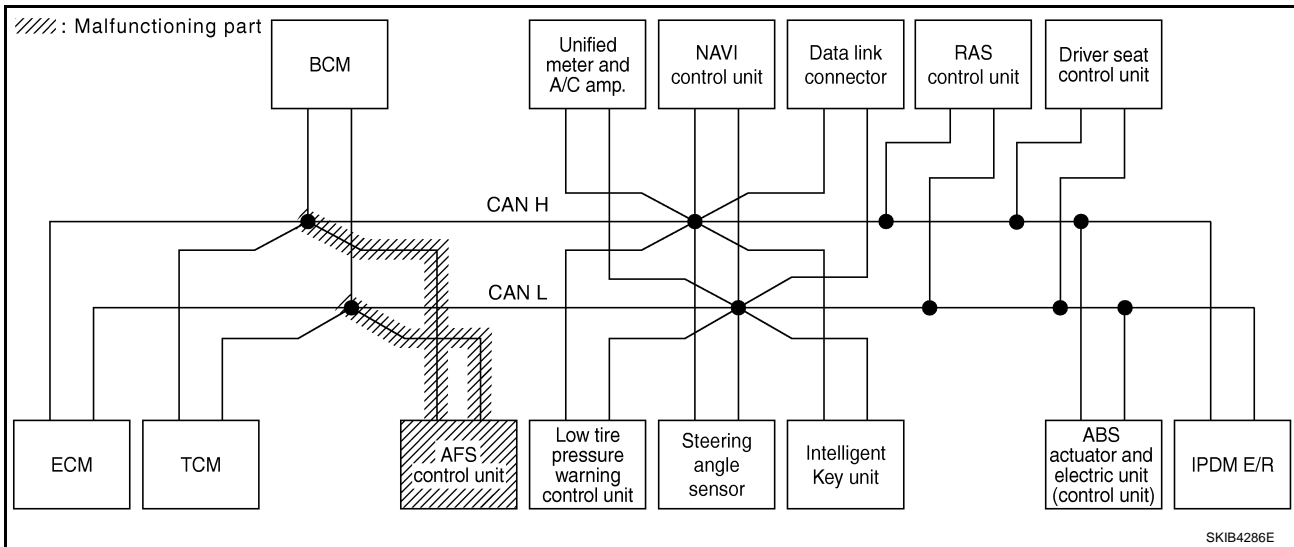
[CAN]

## Case 7

Check AFS control unit circuit. Refer to [LAN-353, "AFS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8453E



SKIB4286E

# CAN SYSTEM (TYPE 7)

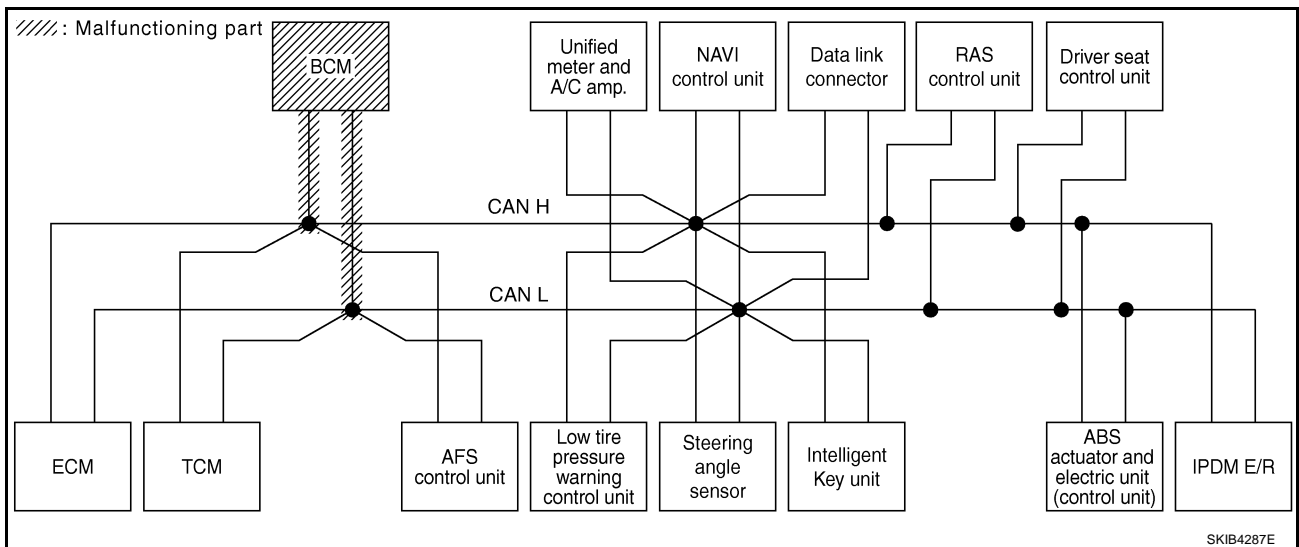
[CAN]

## Case 8

Check BCM circuit. Refer to [LAN-353, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8454E



SKIB4287E

# CAN SYSTEM (TYPE 7)

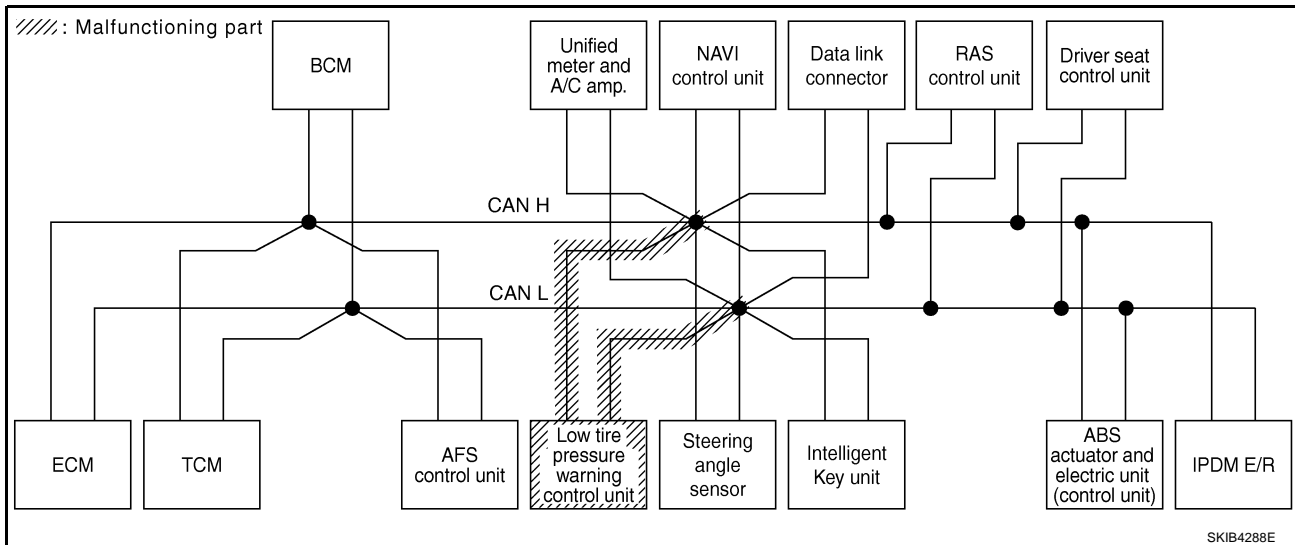
[CAN]

## Case 9

Check low tire pressure warning control unit circuit. Refer to [LAN-354, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8455E



SKIB4288E

# CAN SYSTEM (TYPE 7)

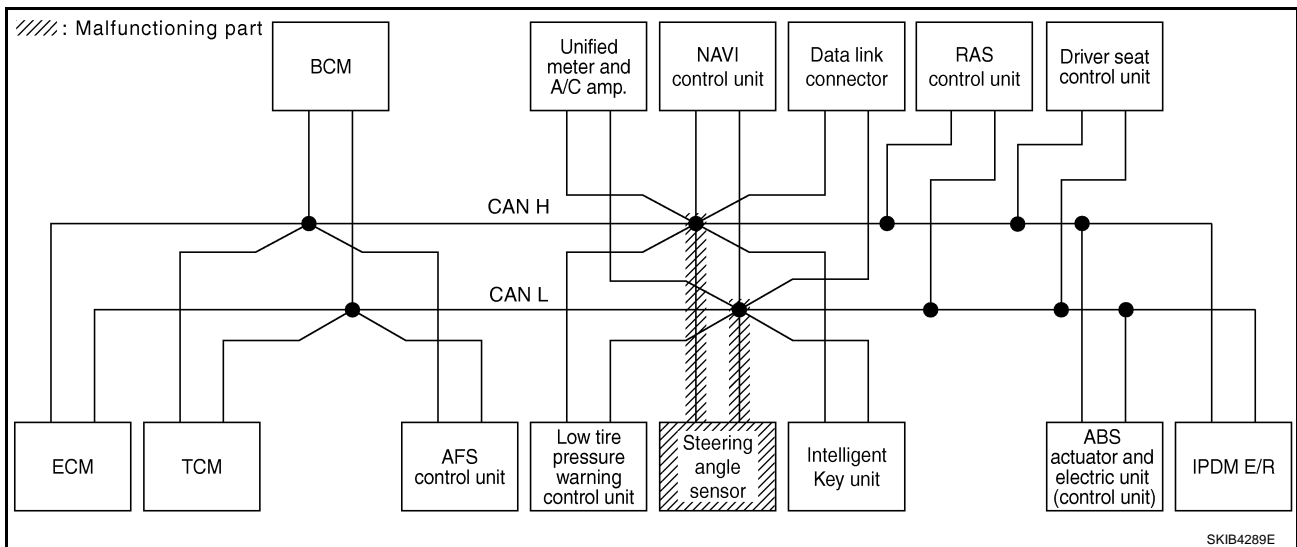
[CAN]

## Case 10

Check steering angle sensor circuit. Refer to [LAN-354, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8456E



SKIB4289E

# CAN SYSTEM (TYPE 7)

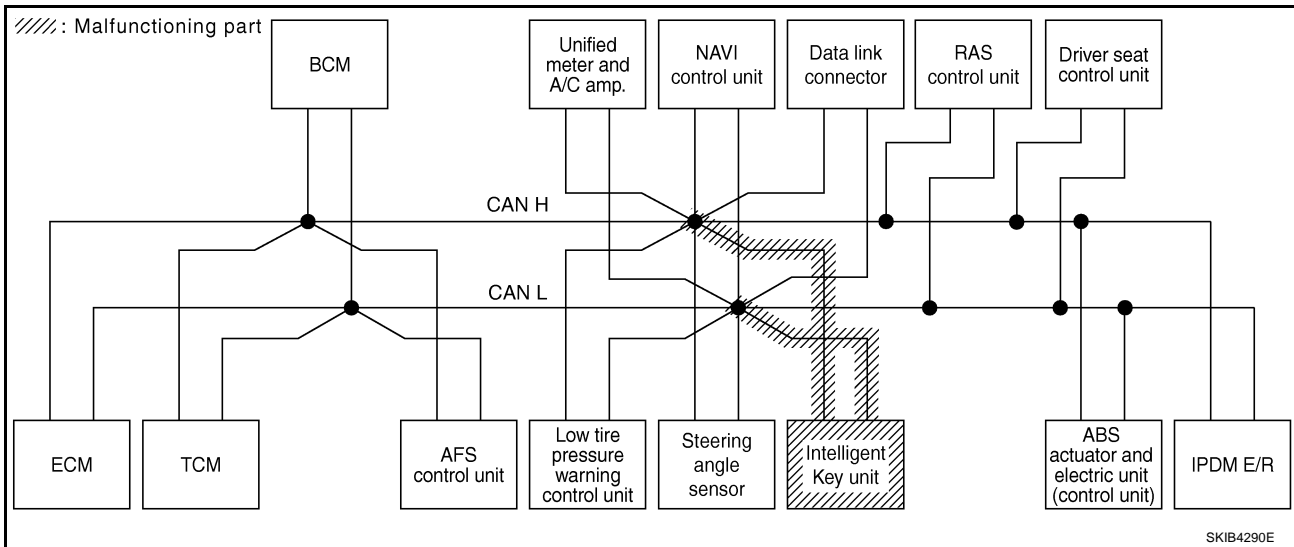
[CAN]

## Case 11

Check Intelligent Key unit circuit. Refer to [LAN-355, "Intelligent Key Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	✓	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	✓	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8457E



SKIB4290E



# CAN SYSTEM (TYPE 7)

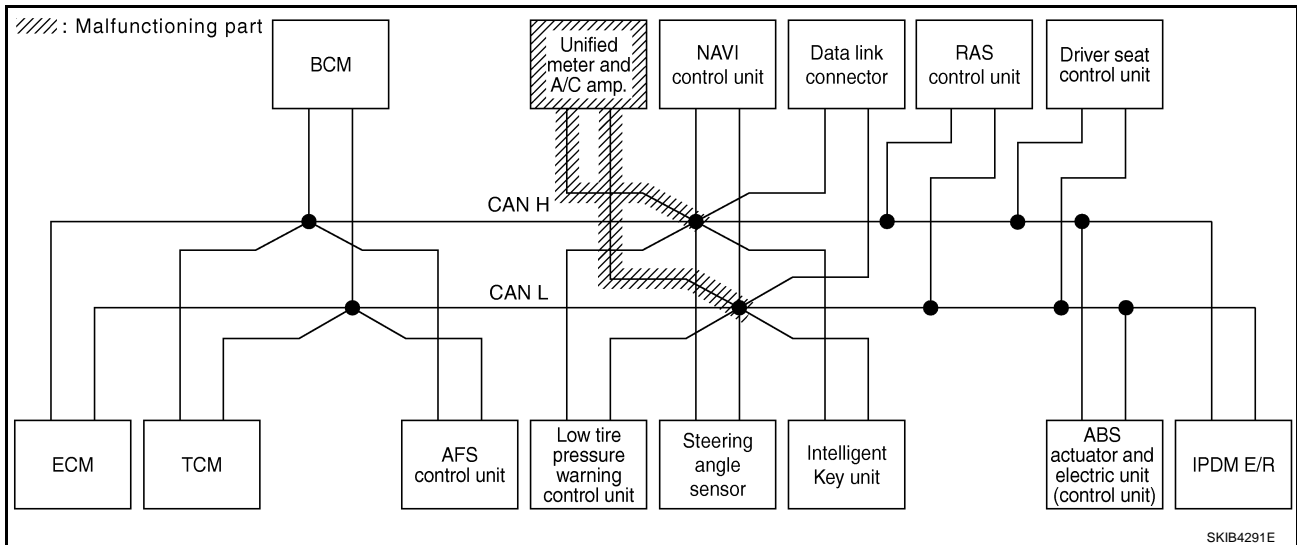
[CAN]

## Case 12

Check unified meter and A/C amp. circuit. Refer to [LAN-355, "Unified Meter and A/C Amp. Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					VDC/TCS /ABS
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8458E



SKIB4291E

# CAN SYSTEM (TYPE 7)

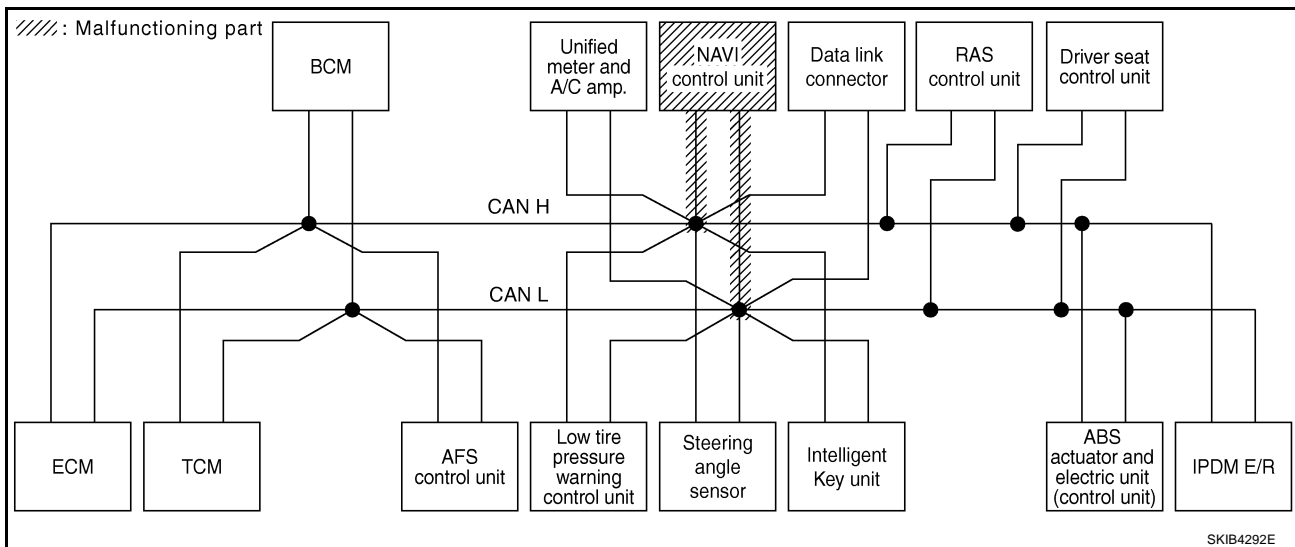
[CAN]

## Case 13

Check NAVI control unit circuit. Refer to [LAN-356, "NAVI Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														IPDM E/R
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8459E



SKIB4292E

# CAN SYSTEM (TYPE 7)

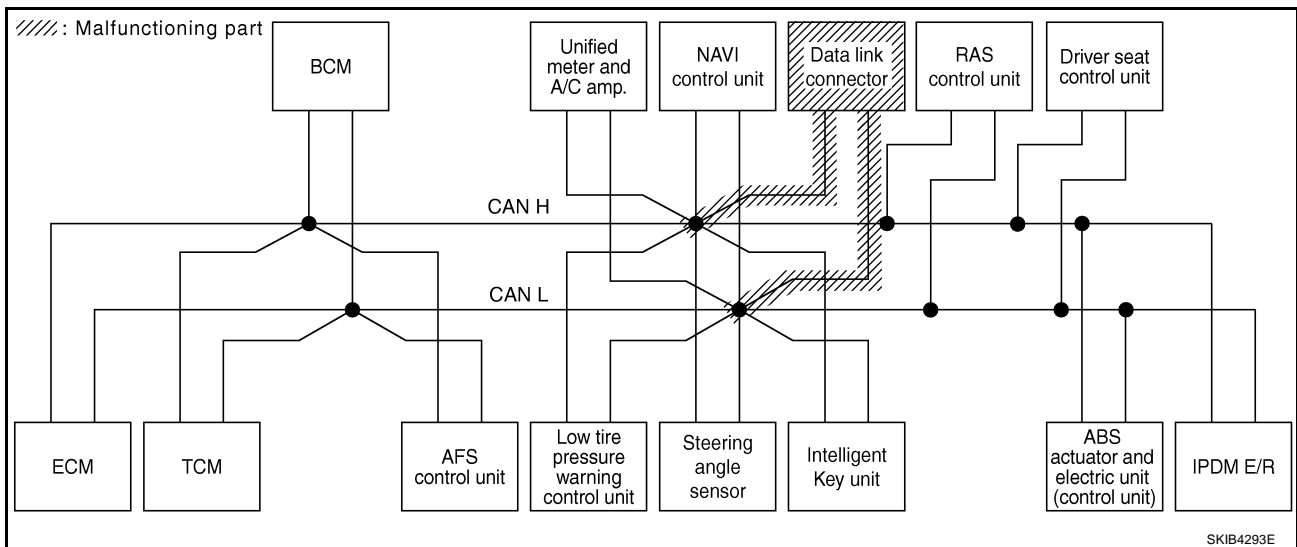
[CAN]

## Case 14

Check data link connector circuit. Refer to [LAN-356, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8460E



SKIB4293E

# CAN SYSTEM (TYPE 7)

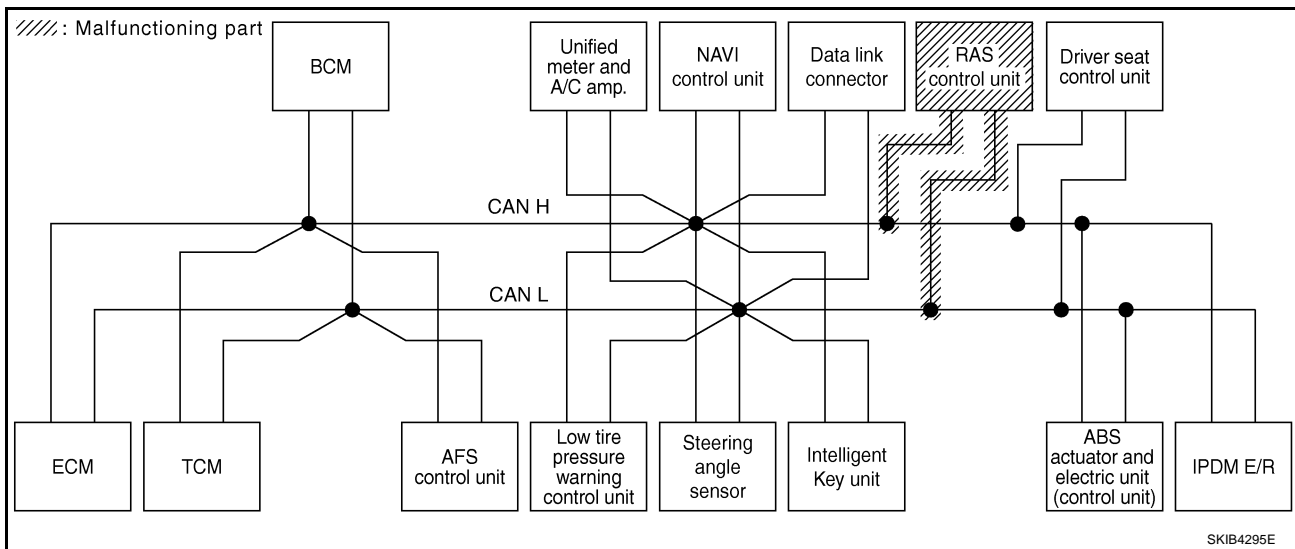
[CAN]

## Case 15

Check RAS control unit circuit. Refer to [LAN-357, "RAS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8461E



SKIB4295E

# CAN SYSTEM (TYPE 7)

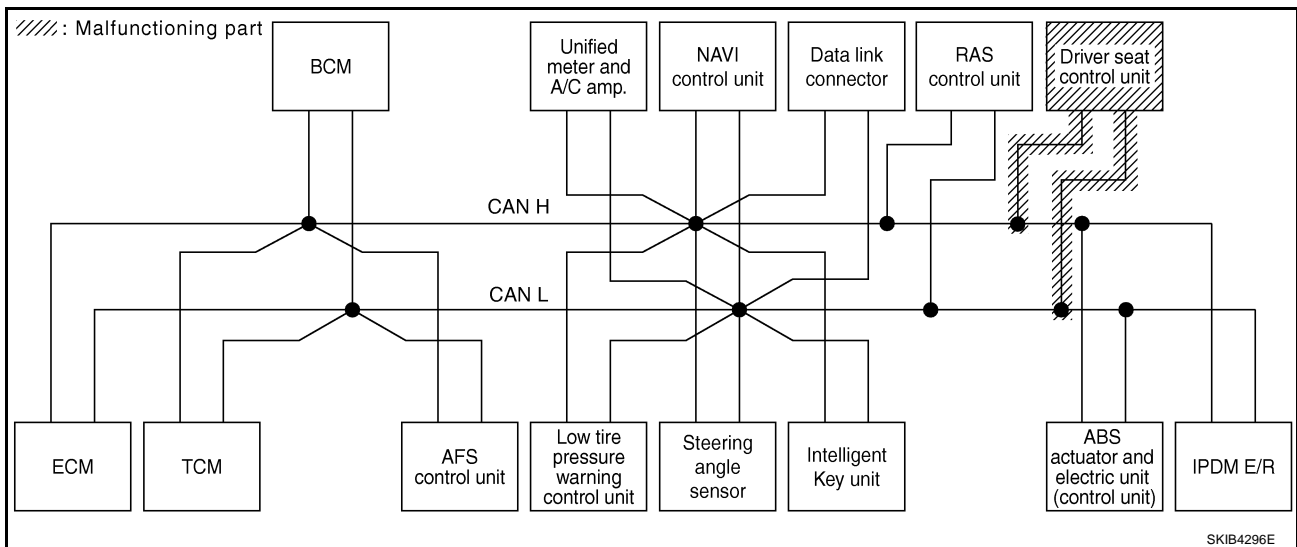
[CAN]

## Case 16

Check driver seat control unit circuit. Refer to [LAN-357, "Driver Seat Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8462E



SKIB4296E

# CAN SYSTEM (TYPE 7)

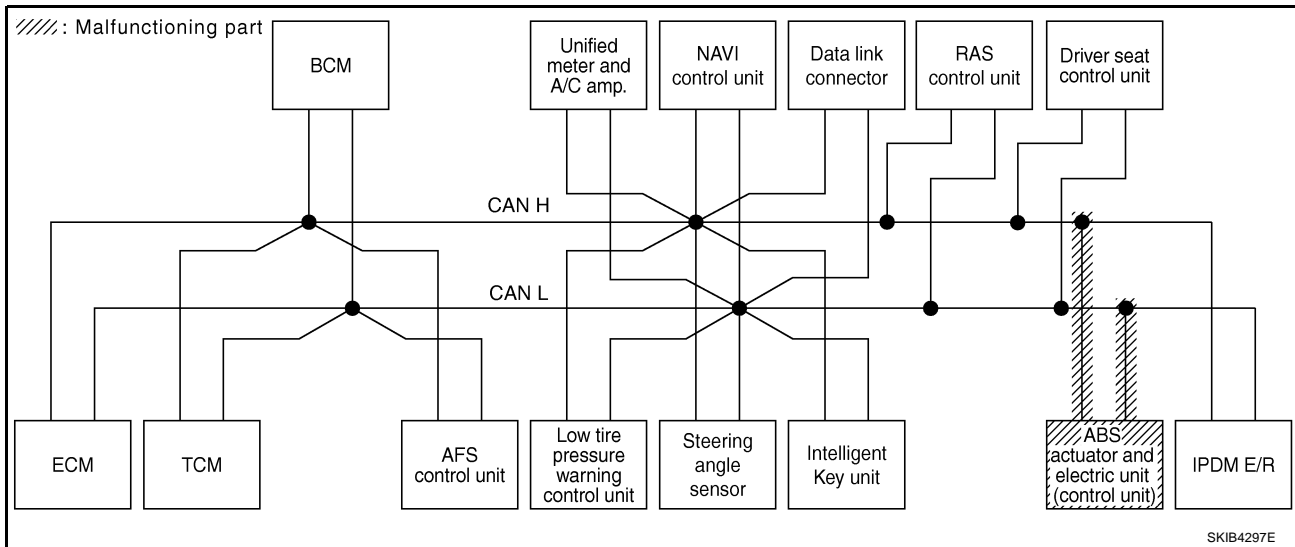
[CAN]

## Case 17

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-358. "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8463E



SKIB4297E

# CAN SYSTEM (TYPE 7)

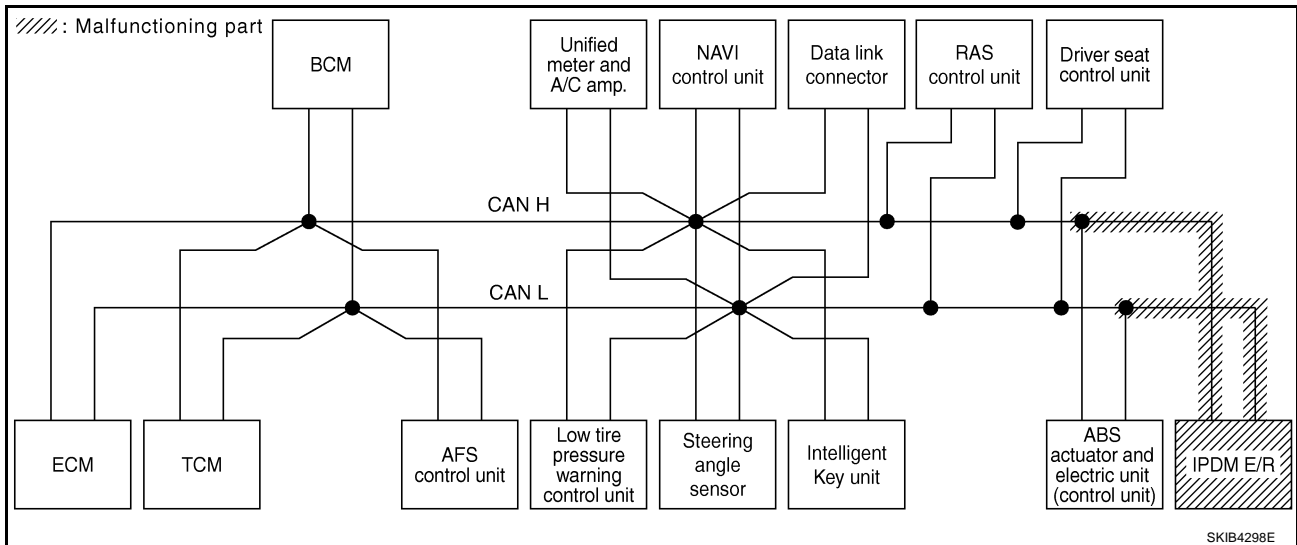
[CAN]

## Case 18

Check IPDM E/R circuit. Refer to [LAN-358, "IPDM E/R Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8464E



SKIB4298E

# CAN SYSTEM (TYPE 7)

[CAN]

## Case 19

Check CAN communication circuit. Refer to [LAN-359, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8465E

## Case 20

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-366, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8466E



## Case 21

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-366, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8467E

## Inspection Between TCM and Data Link Connector Circuit

NKS0041Y

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

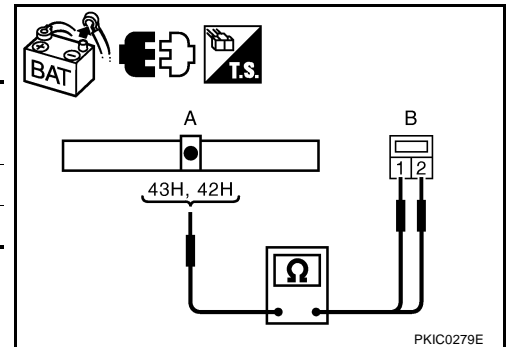
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

**OK or NG**

- OK >> GO TO 3.
- NG >> Repair harness.



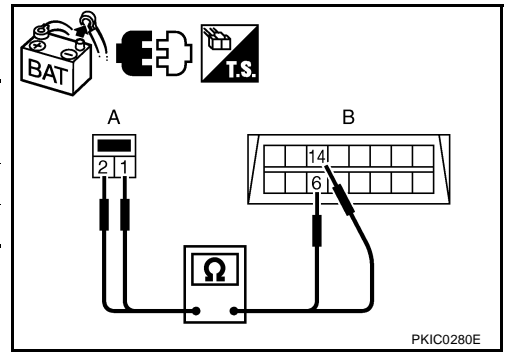
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and RAS Control Unit Circuit

NKS0041Z

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

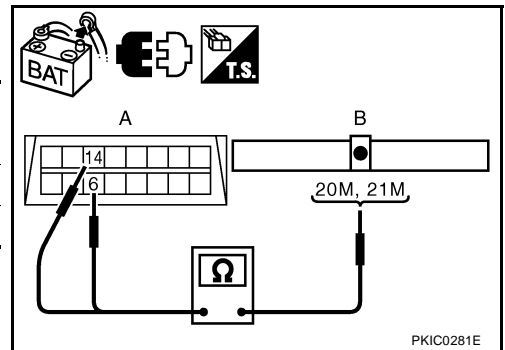
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



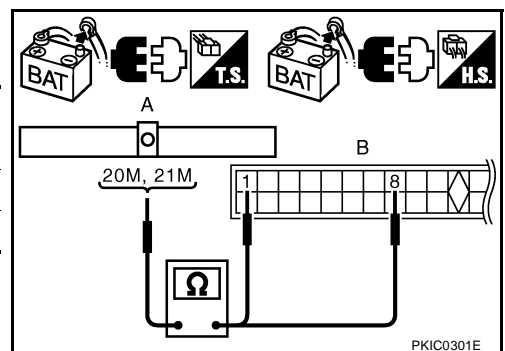
#### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect RAS control unit connector.
2. Check continuity between harness connector (A) and RAS control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B127	1	Yes
	21M		8	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



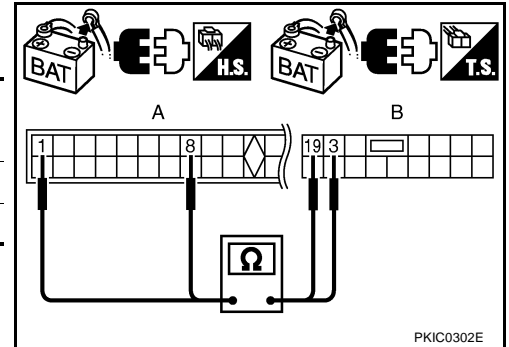
## Inspection Between RAS Control Unit and Driver Seat Control Unit Circuit

NKS00420

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - RAS control unit connector
  - Harness connector B15
4. Check continuity between RAS control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B127	1	B15	3	Yes
	8		19	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.

## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS00421

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

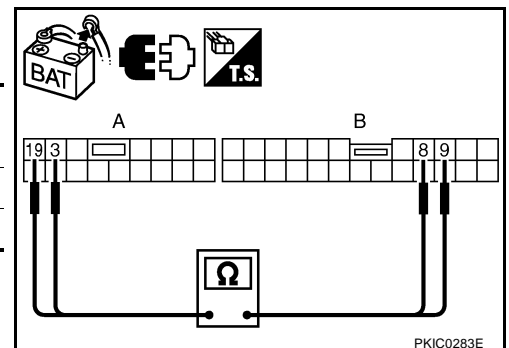
**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes



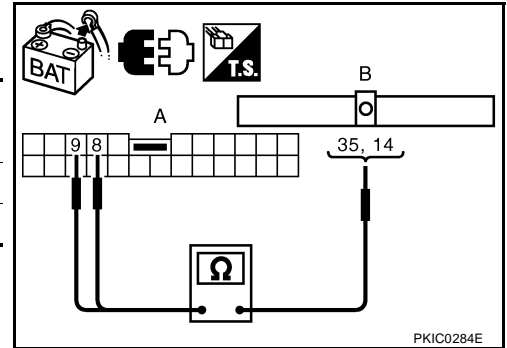
**OK or NG**

- OK >> GO TO 3.
- NG >> Replace harness.

## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.

## ECM Circuit Inspection

NKS00422

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

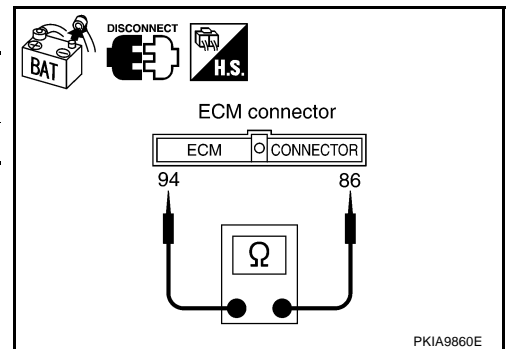
**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω



**OK or NG**

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.

## TCM Circuit Inspection

NKS00423

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

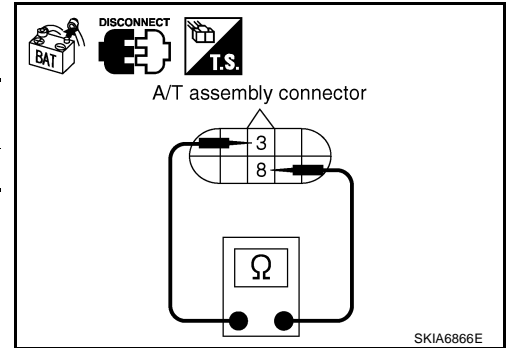
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

### OK or NG

- OK >> Replace control valve with TCM.  
 NG >> Repair harness between A/T assembly and AFS control unit.



NKS00424

## AFS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

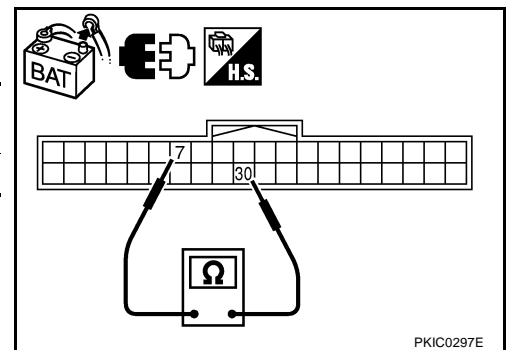
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
F110	30	7	54 – 66 Ω

### OK or NG

- OK >> Replace AFS control unit.  
 NG >> Repair harness between AFS control unit and BCM.



NKS00425

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

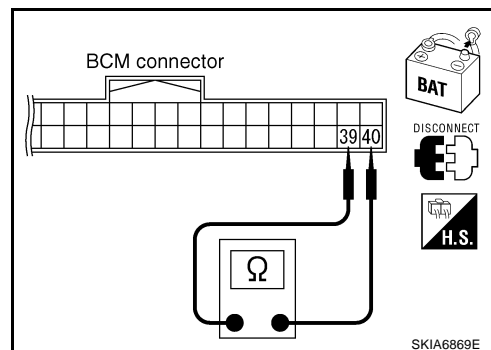
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

### OK or NG

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#) .
- NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

NKS00426

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

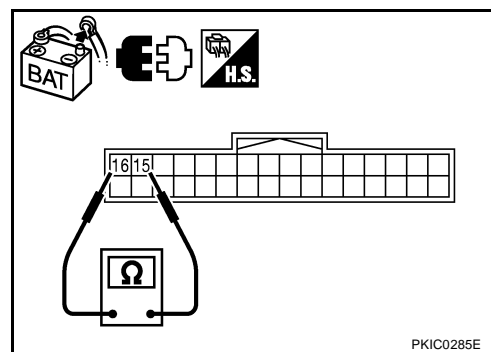
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

### OK or NG

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS00427

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

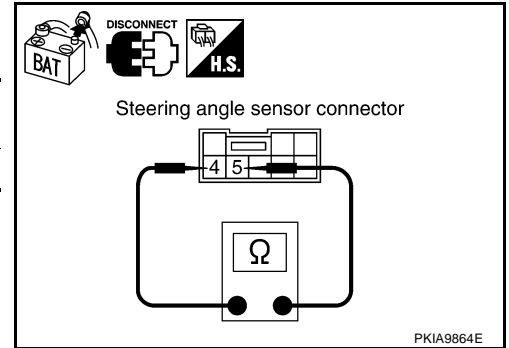
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
	4	5	
M47	4	5	54 – 66 Ω

**OK or NG**

- OK >> Replace steering angle sensor.  
 NG >> Repair harness between steering angle sensor and data link connector.



NKS00428

## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

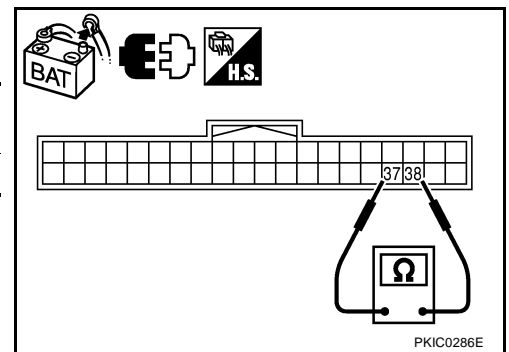
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
	38	37	
M32	38	37	54 – 66 Ω

**OK or NG**

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS00429

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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H  
I  
J  
LAN  
L  
M

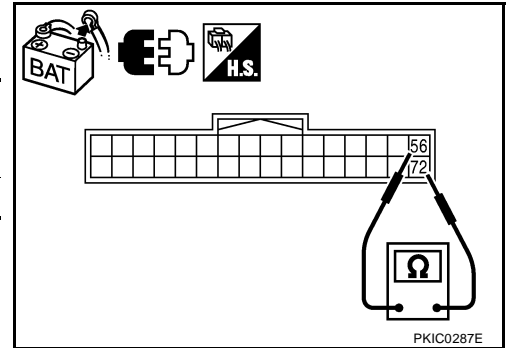
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
	56	72	
M65	56	72	54 – 66 Ω

### OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS0042A

## NAVI Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - NAVI control unit connector
  - Harness connector M216
  - Harness connector M53

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

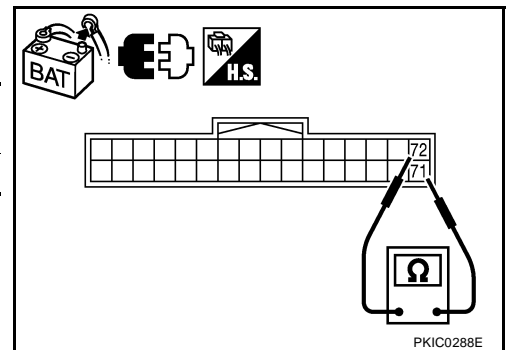
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check resistance between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Resistance (Approx.)
	71	72	
M210	71	72	54 – 66 Ω

### OK or NG

- OK >> Replace NAVI control unit.  
 NG >> Repair harness between NAVI control unit and data link connector.



NKS0042B

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.



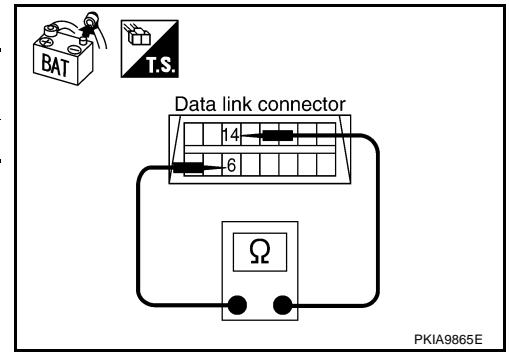
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

### OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



NKS0042C

## RAS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of RAS control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

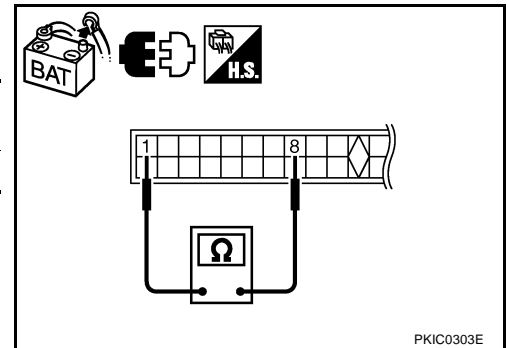
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect RAS control unit connector.
2. Check resistance between RAS control unit harness connector terminals.

RAS control unit connector	Terminal		Resistance (Approx.)
B127	1	8	54 – 66 Ω

### OK or NG

- OK >> Replace RAS control unit.
- NG >> Replace harness.



NKS0042D

## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

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LAN  
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M

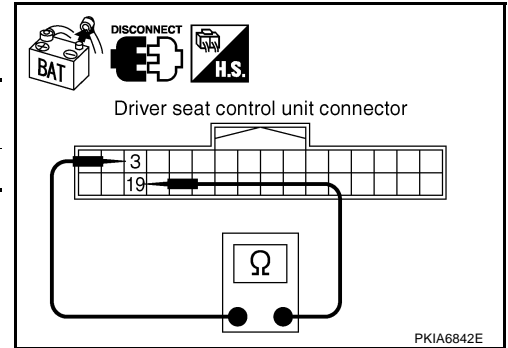
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

**OK or NG**

- OK >> Replace driver seat control unit.  
 NG >> Replace harness.



## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

NKS0042E

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

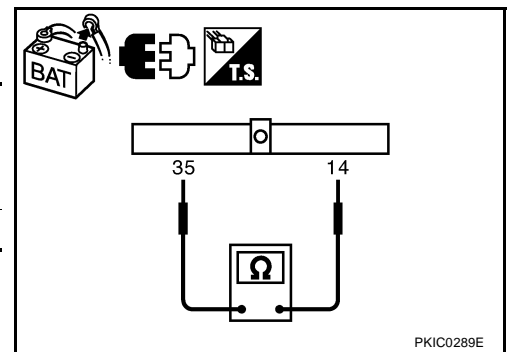
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

**OK or NG**

- OK >> Replace ABS actuator and electric unit (control unit).  
 NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



## IPDM E/R Circuit Inspection

NKS0042F

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

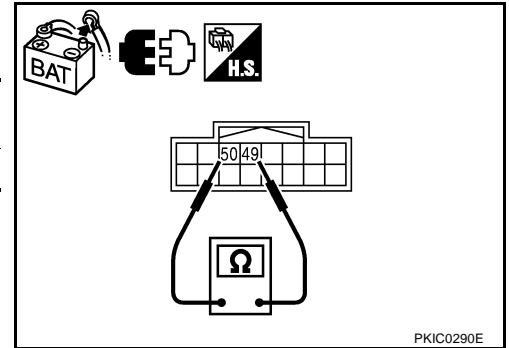
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

### OK or NG

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and harness connector E105.



NKS0042G

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - RAS control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
    - Between ECM and A/T assembly
    - Between ECM and AFS control unit
    - Between ECM and NAVI control unit
    - Between ECM and driver seat control unit
    - Between ECM and IPDM E/R

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

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B  
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D  
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LAN  
L  
M

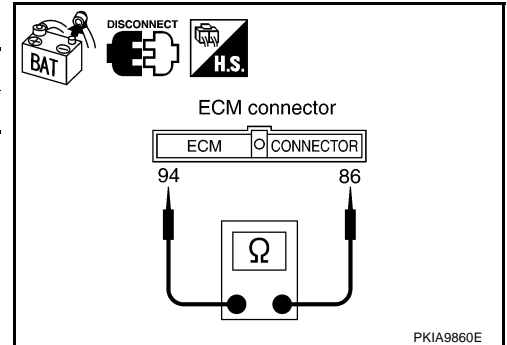
## 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



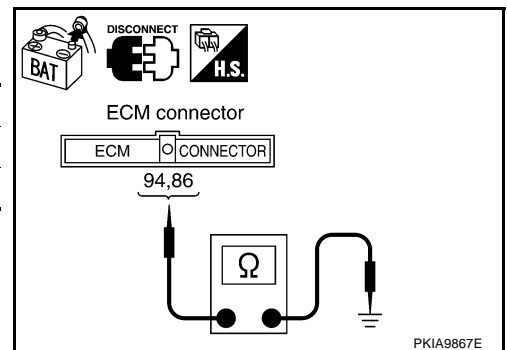
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		No
	86	No	

**OK or NG**

- OK >> GO TO 4.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



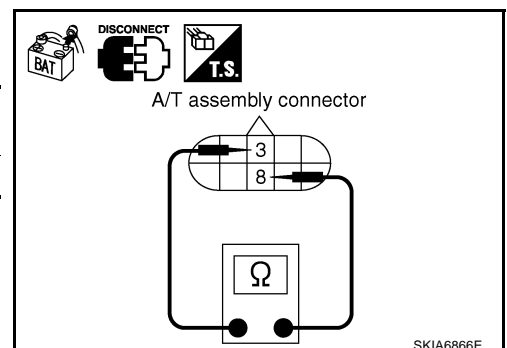
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.  
 NG >> Repair harness between A/T assembly and harness connector F102.



## 5. CHECK HARNESS FOR SHORT CIRCUIT

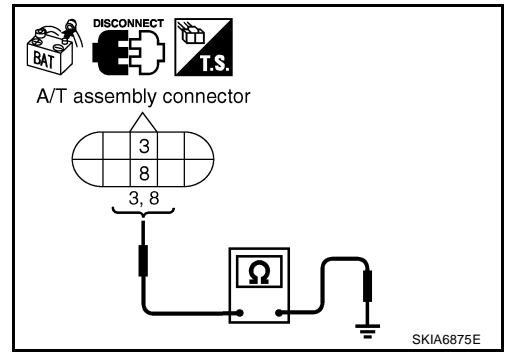
Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

**OK or NG**

OK >> GO TO 6.

NG >> Repair harness between A/T assembly and harness connector F102.



## 6. CHECK HARNESS FOR SHORT CIRCUIT

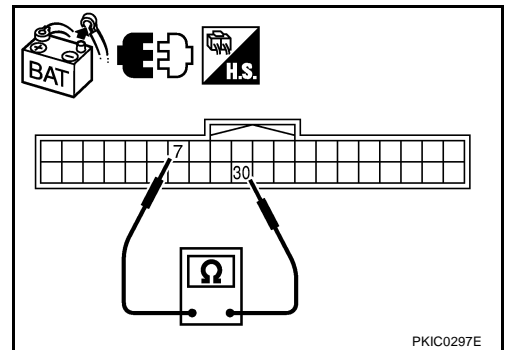
1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal	Continuity
F110	30	No

**OK or NG**

OK >> GO TO 7.

NG >> Repair harness between AFS control unit and harness connector F102.



## 7. CHECK HARNESS FOR SHORT CIRCUIT

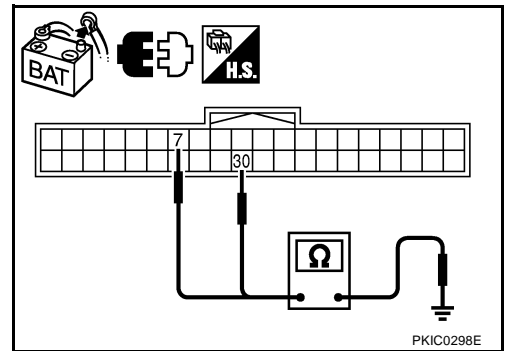
Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		
	7	No	

**OK or NG**

OK >> GO TO 8.

NG >> Replace harness between AFS control unit and harness connector F102.



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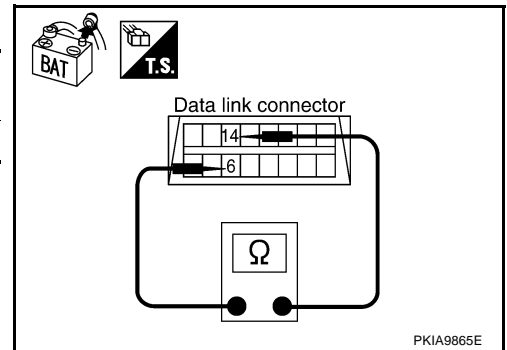
## 8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

Data link connector	Terminal		Continuity
M60	6	14	No

**OK or NG**

- OK >> GO TO 9.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



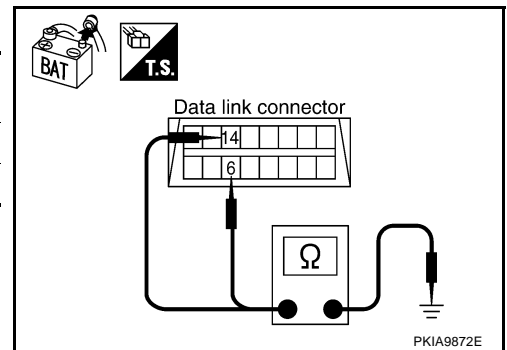
## 9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

Data link connector	Terminal	Ground	Continuity
M60	6	Ground	No
	14		No

**OK or NG**

- OK >> GO TO 10.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



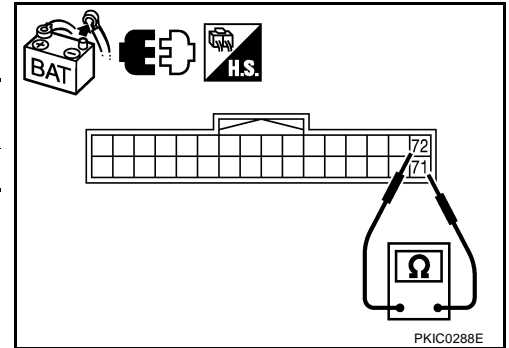
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check continuity between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Continuity
	71	72	
M210	71	72	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



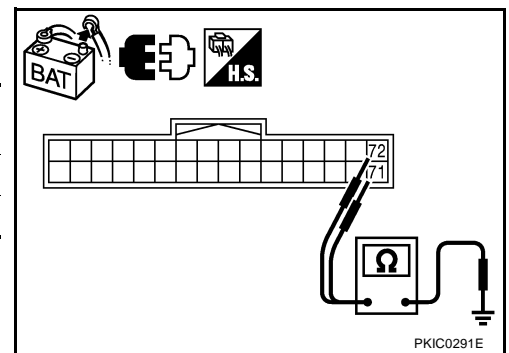
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between NAVI control unit harness connector terminals and ground.

NAVI control unit connector	Terminal	Ground	Continuity
	M210		71
	72	No	

**OK or NG**

- OK >> GO TO 12.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



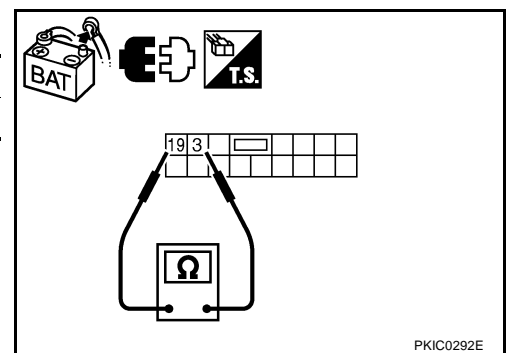
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - RAS control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
	3	19	
B15	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Replace harness.



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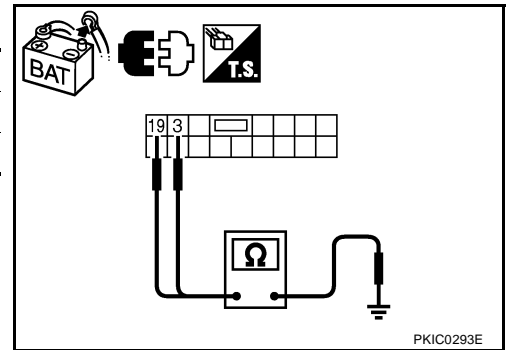
### 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19	No	

OK or NG

- OK >> GO TO 14.
- NG >> Replace harness.



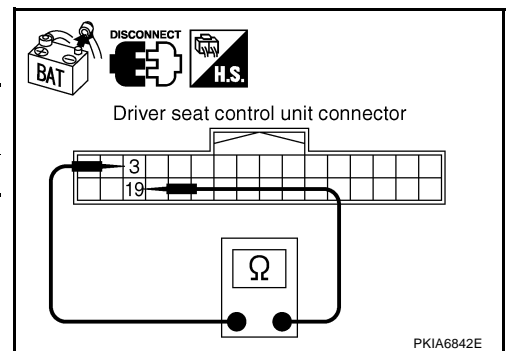
### 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal	Continuity
B204	3	No
	19	No

OK or NG

- OK >> GO TO 15.
- NG >> Repair harness between driver seat control unit and harness connector B202.



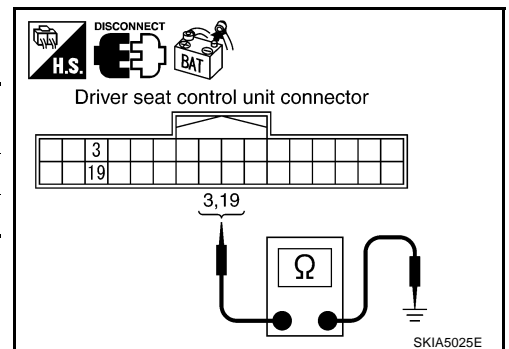
### 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

OK or NG

- OK >> GO TO 16.
- NG >> Repair harness between driver seat control unit and harness connector B202.





## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

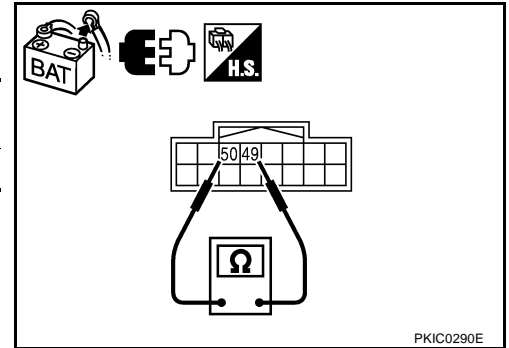
IPDM E/R connector	Terminal		Continuity
E9	49	50	No

### OK or NG

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

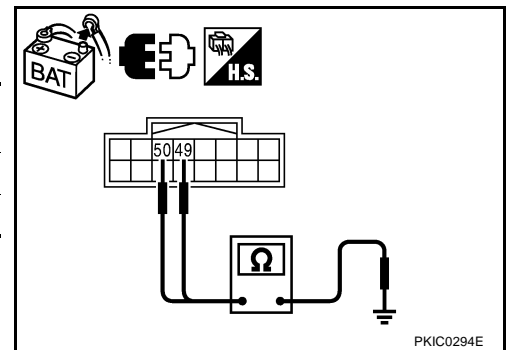
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		No
	50	No	

### OK or NG

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

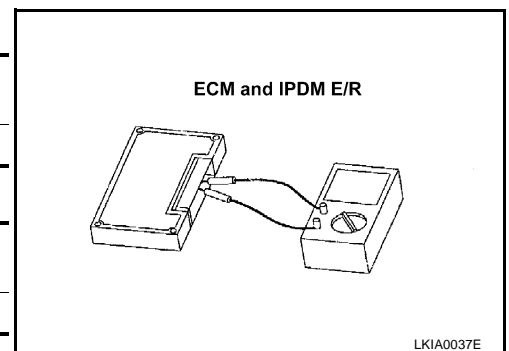
3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω

### OK or NG

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



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## 19. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - RAS control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

NKS0042H

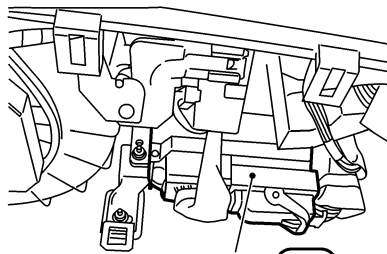
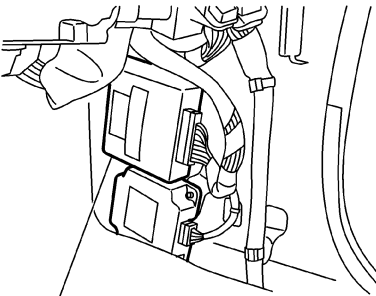
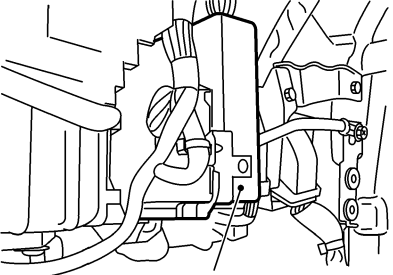
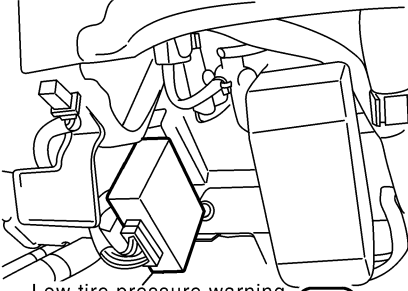
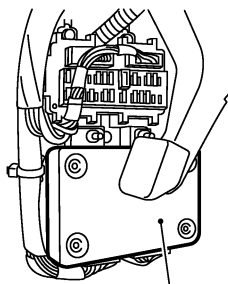
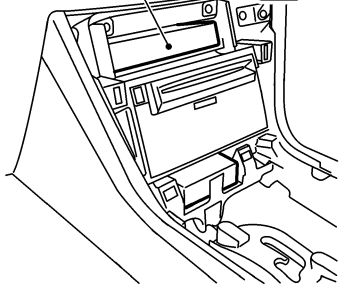
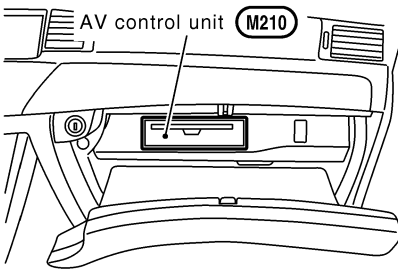
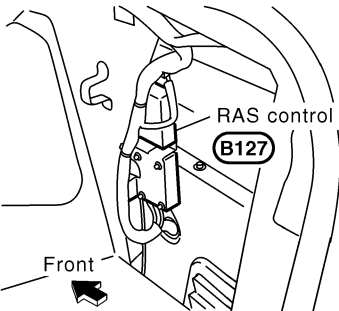
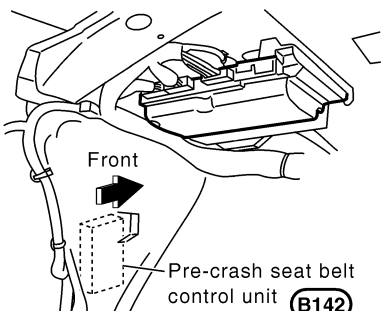
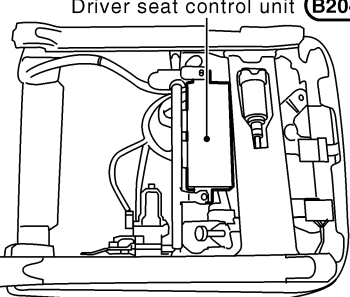
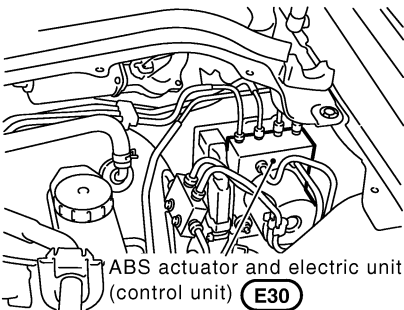
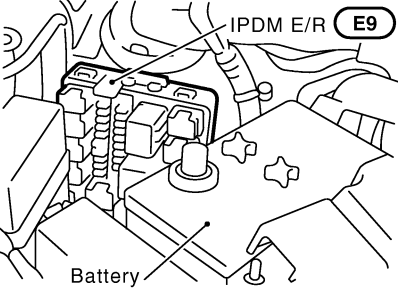
Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)

## CAN SYSTEM (TYPE 8)

### Component Parts and Harness Connector Location

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<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>AV control unit (M210)</p>	<p>View with trunk side RH finisher removed</p>  <p>RAS control unit (B127)</p> <p>Front</p>	<p>View with trunk side LH finisher and front finisher removed</p>  <p>Pre-crash seat belt control unit (B142)</p> <p>Front</p>
<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>	<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>

PKIC0606E



# CAN SYSTEM (TYPE 8)

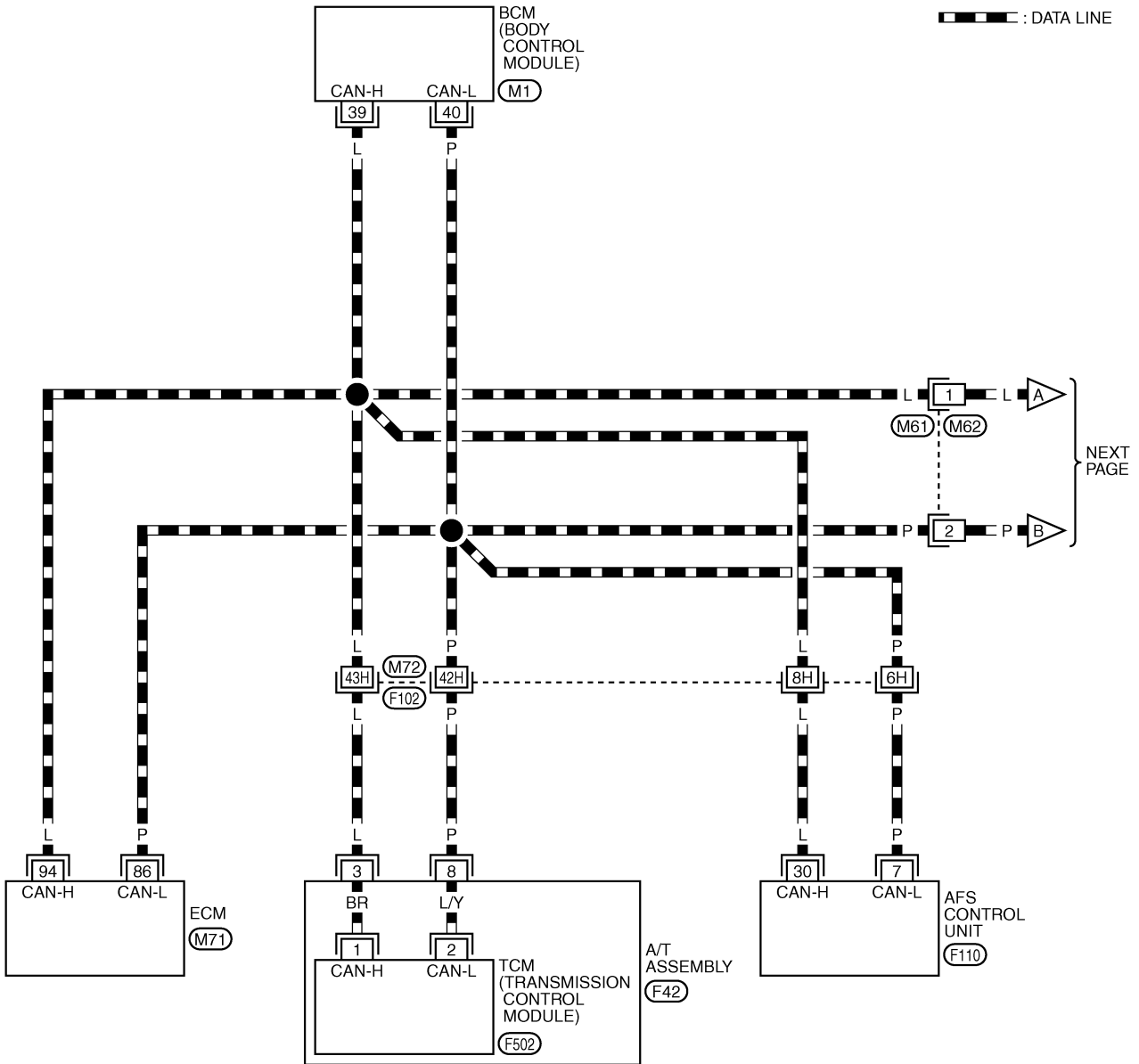
[CAN]

NKS0042K

## Wiring Diagram — CAN —

LAN-CAN-27

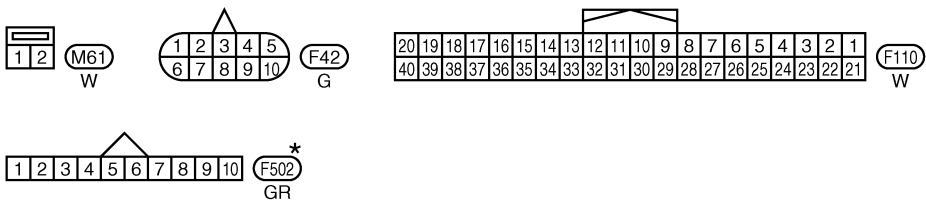
▬ : DATA LINE



NEXT PAGE

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LAN



REFER TO THE FOLLOWING.  
 (F102) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

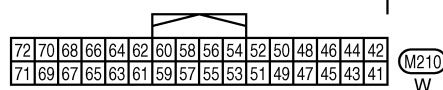
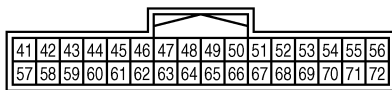
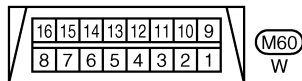
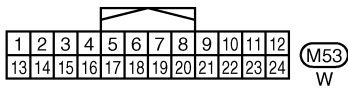
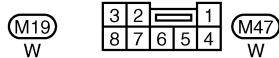
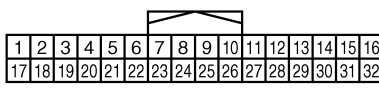
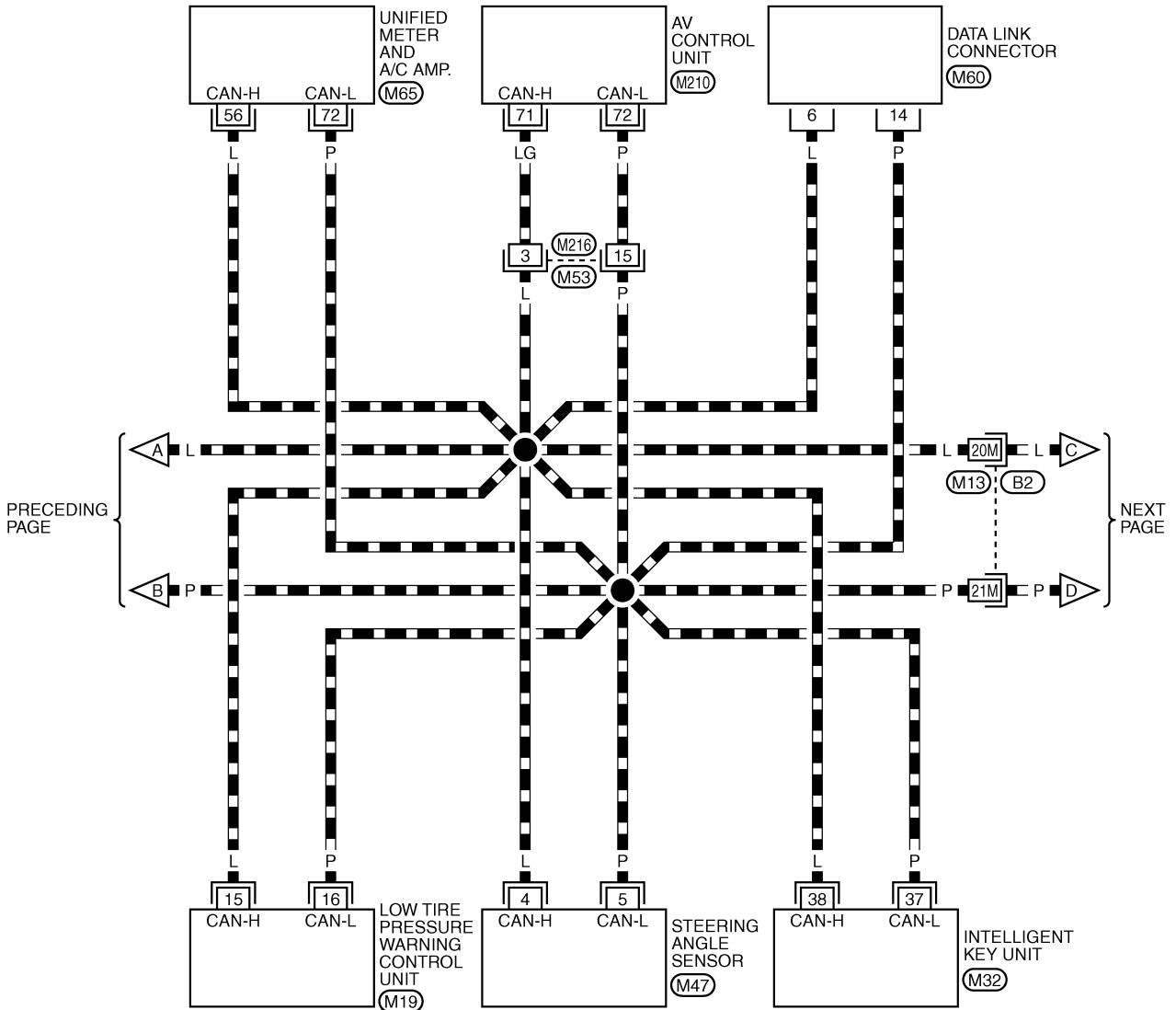
TKWT3281E

# CAN SYSTEM (TYPE 8)

[CAN]

## LAN-CAN-28

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

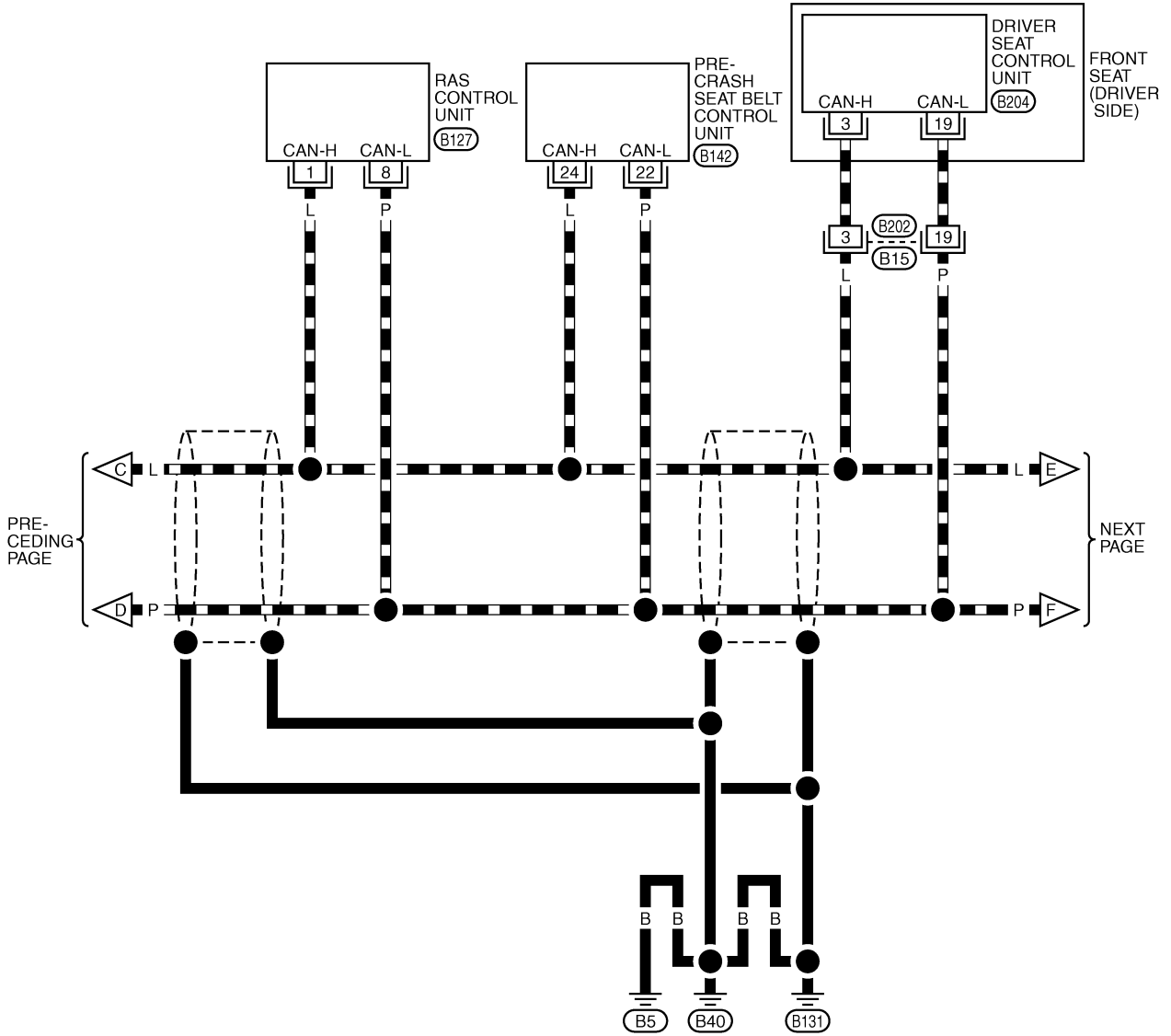
TKWT3282E

# CAN SYSTEM (TYPE 8)

[CAN]

## LAN-CAN-29

DATA LINE



19	3	1		17	40	
61	60	59	32	48	21	33

(B15)  
W

1	2	3	4	5	6	7	8	9	10	21	22	23	24	25	26	27	28	37	38	39	40
11	12	13	14	15	16	17	18	19	20	29	30	31	32	33	34	35	36				

(B127)  
W



6	5	4	12	11	10	9	8	7	3	2	1		
26	25	24	23	22	21	20	19	18	17	16	15	14	13

(B142)  
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

(B204)  
W



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

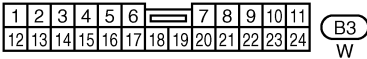
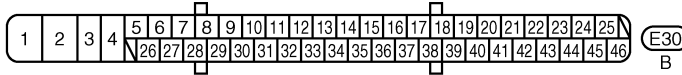
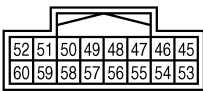
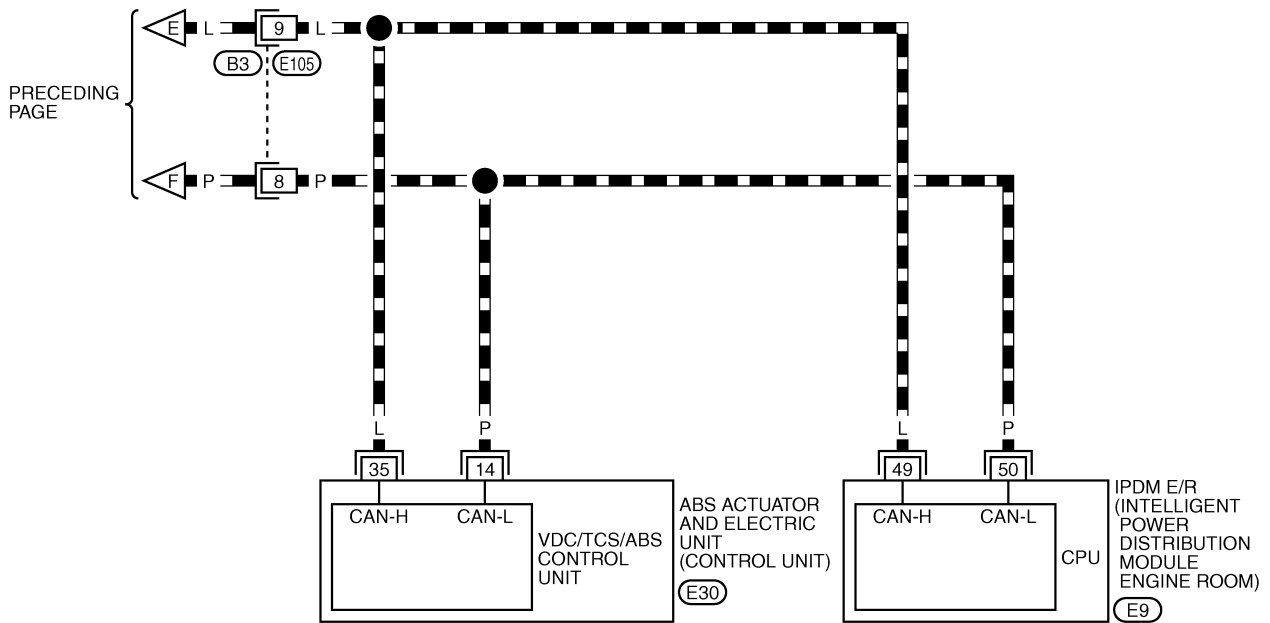
TKWT3283E

# CAN SYSTEM (TYPE 8)

[CAN]

## LAN-CAN-30

▬ : DATA LINE



TKWT3284E



# CAN SYSTEM (TYPE 8)

[CAN]

NKS0042L

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

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SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8468E

# CAN SYSTEM (TYPE 8)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
RAS/HICAS  
SELF-DIAG RESULTS

Attach copy of  
PRECRASH SEATBELT  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9563E

# CAN SYSTEM (TYPE 8)

[CAN]

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Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
RAS/HICAS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
PRECRASH SEATBELT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
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Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9564E

# CAN SYSTEM (TYPE 8)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

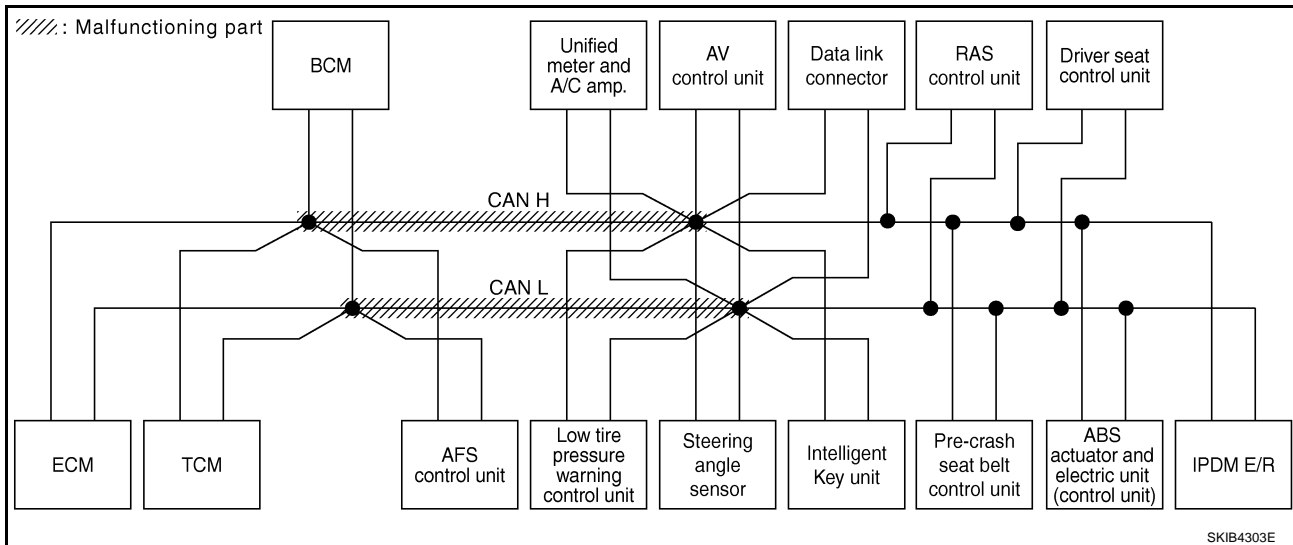
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-397, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R		
		ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS								
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	✓	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	✓	UNKWN	✓	UNKWN	✓	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	✓	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	✓	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	✓	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8469E



SKIB4303E

# CAN SYSTEM (TYPE 8)

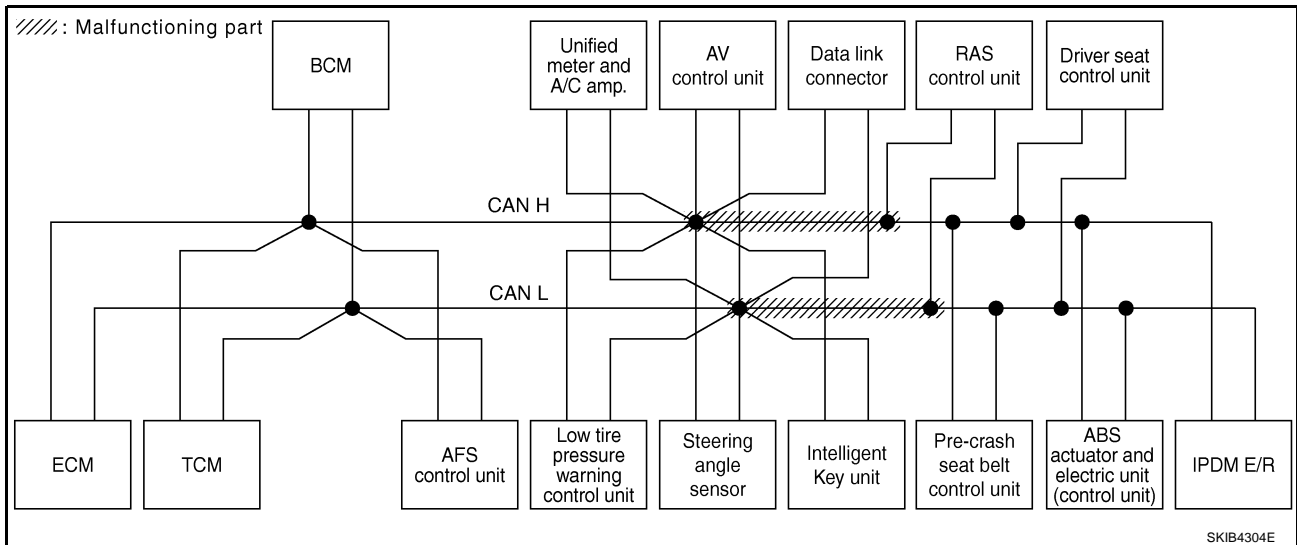
[CAN]

## Case 2

Check harness between data link connector and RAS control unit. Refer to [LAN-398, "Inspection Between Data Link Connector and RAS Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8470E



# CAN SYSTEM (TYPE 8)

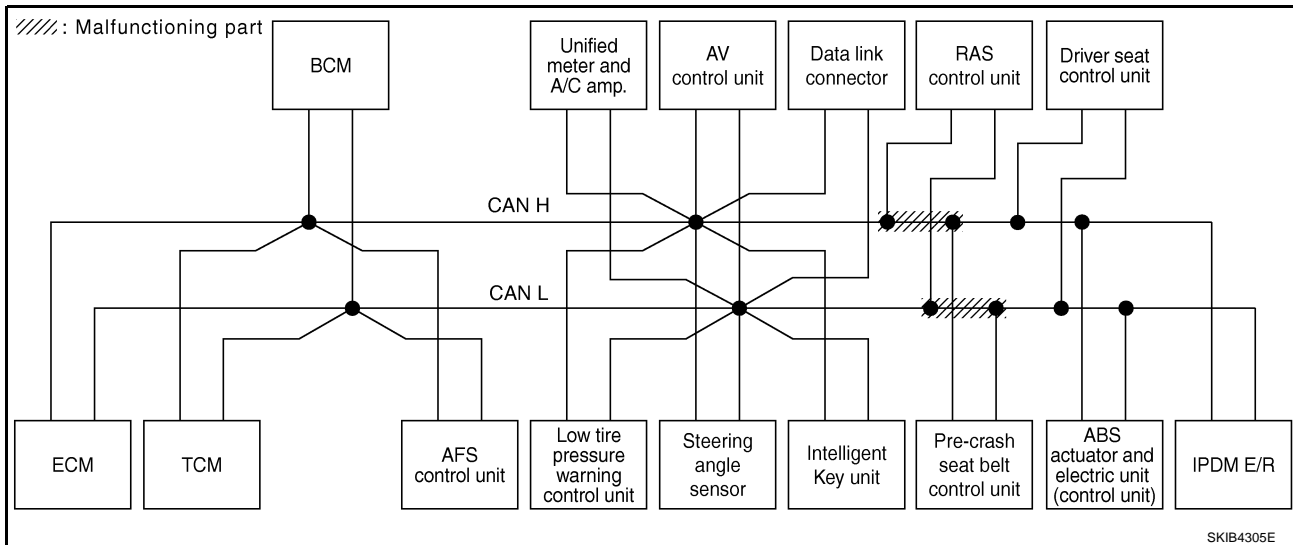
[CAN]

## Case 3

Check harness between RAS control unit and pre-crash seat belt control unit. Refer to [LAN-399, "Inspection Between RAS Control Unit and Pre-Crash Seat Belt Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										VDC/TCS /ABS			IPDM E/R		
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS						
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB471E



# CAN SYSTEM (TYPE 8)

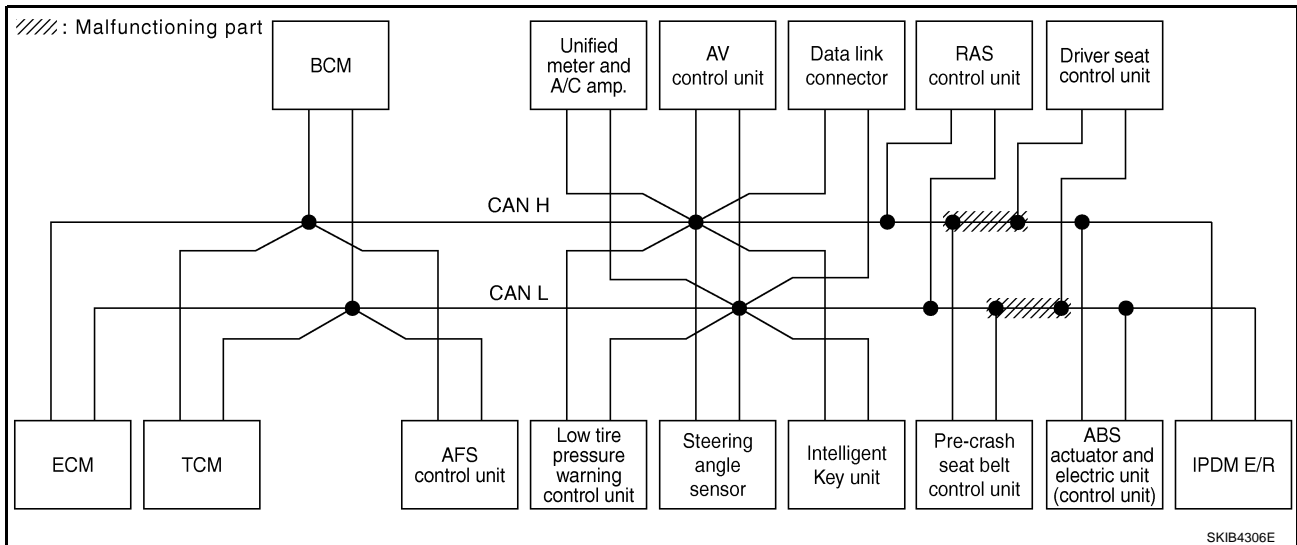
[CAN]

## Case 4

Check harness between pre-crash seat belt control unit and driver seat control unit. Refer to [LAN-399](#), "Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit".

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8472E



LAN

# CAN SYSTEM (TYPE 8)

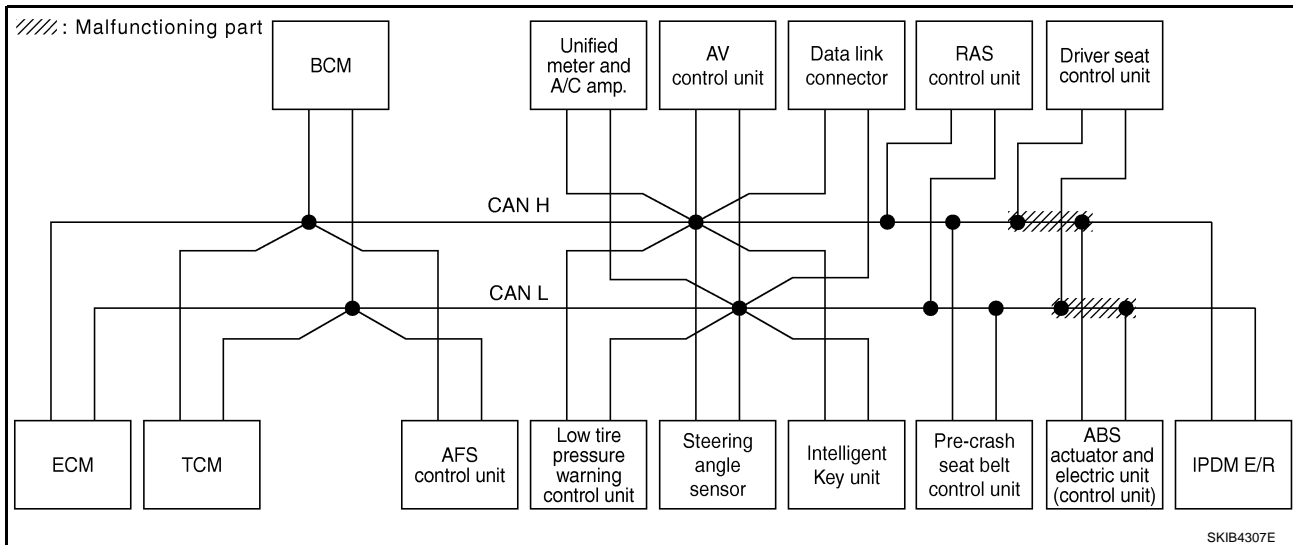
[CAN]

## Case 5

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-400, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS						
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8473E





# CAN SYSTEM (TYPE 8)

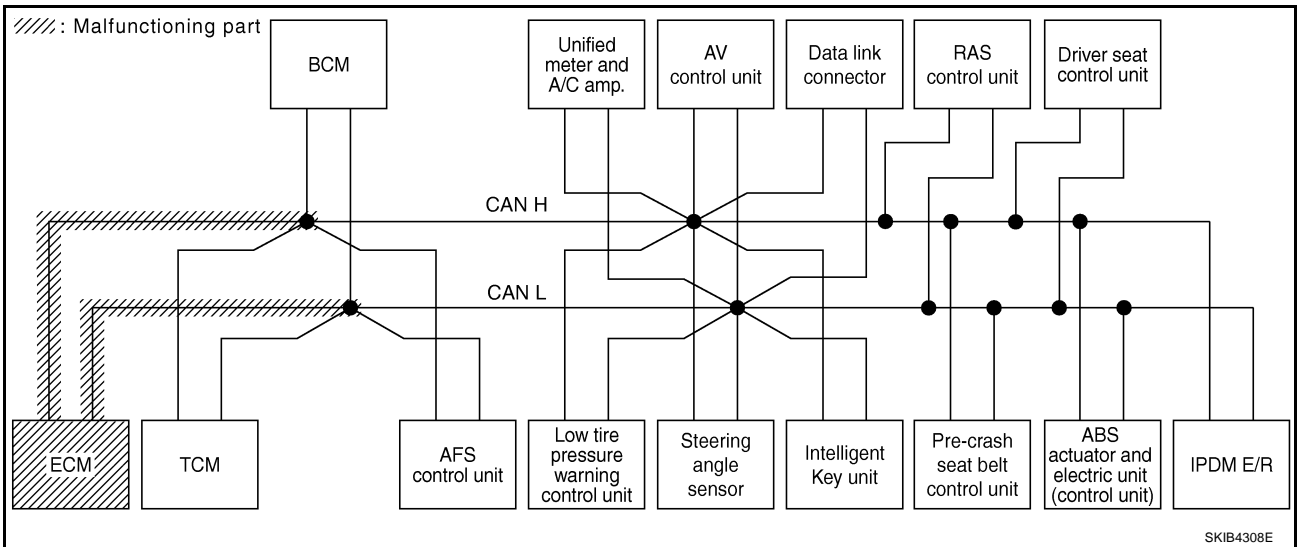
[CAN]

## Case 6

Check ECM circuit. Refer to [LAN-400, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8474E



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# CAN SYSTEM (TYPE 8)

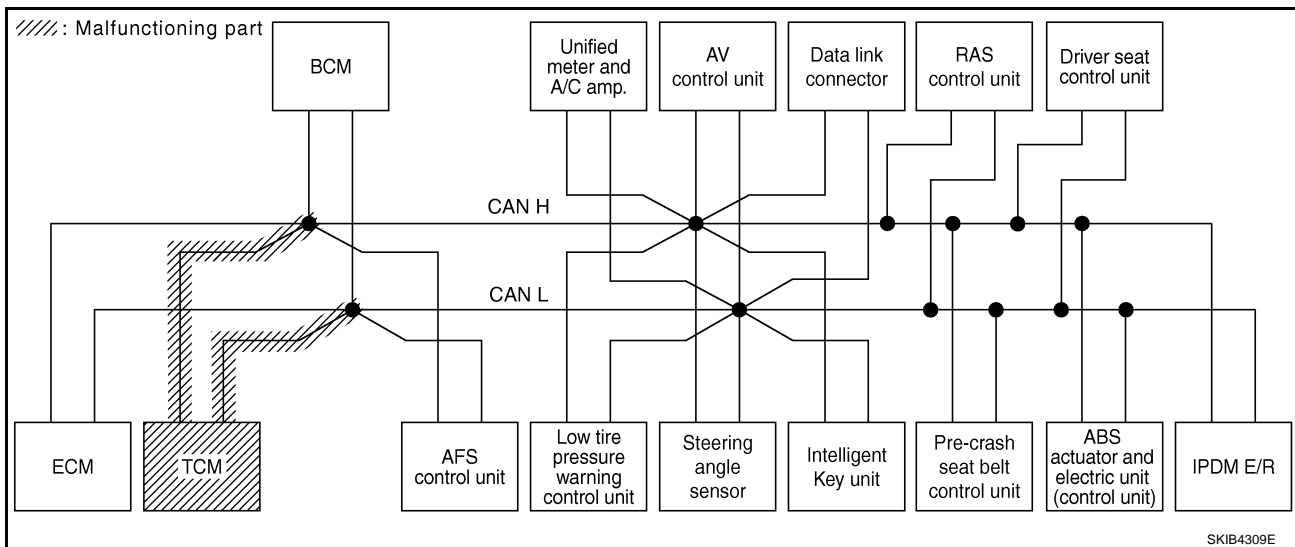
[CAN]

## Case 7

Check TCM circuit. Refer to [LAN-401, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8475E



SKIB4309E

# CAN SYSTEM (TYPE 8)

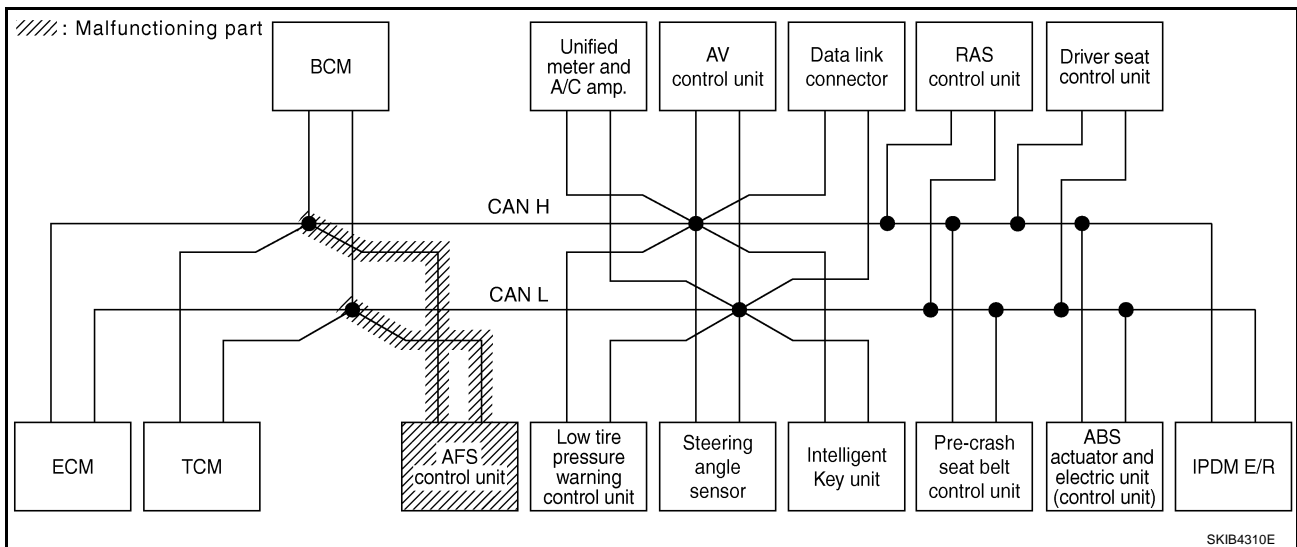
[CAN]

## Case 8

Check AFS control unit circuit. Refer to [LAN-402, "AFS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8476E



SKIB4310E

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# CAN SYSTEM (TYPE 8)

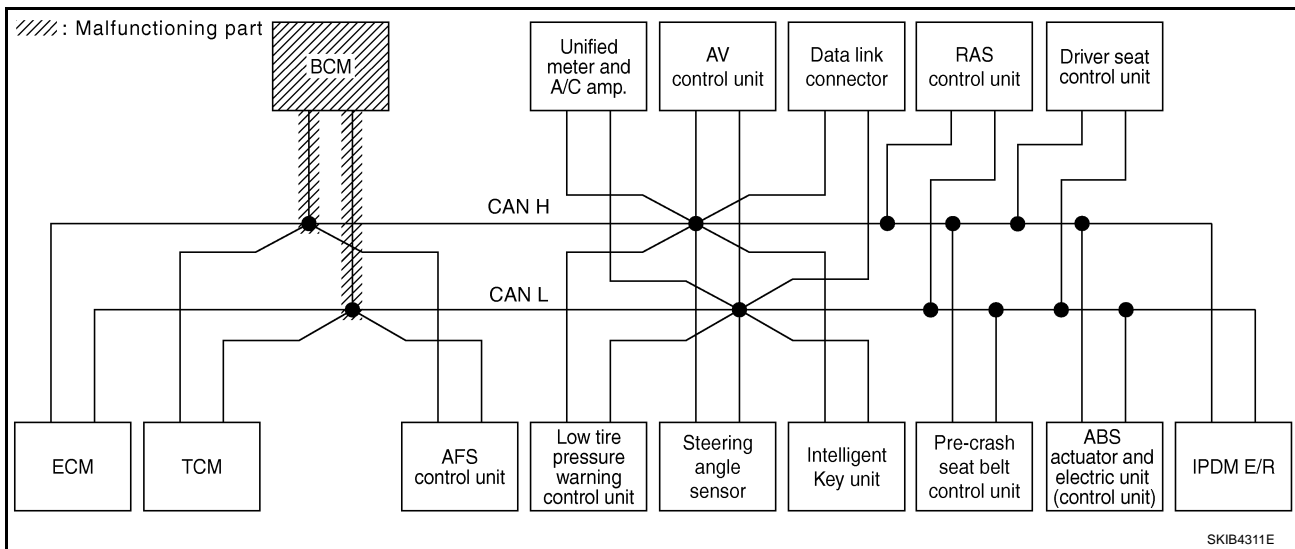
[CAN]

## Case 9

Check BCM circuit. Refer to [LAN-402, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8477E



SKIB4311E

# CAN SYSTEM (TYPE 8)

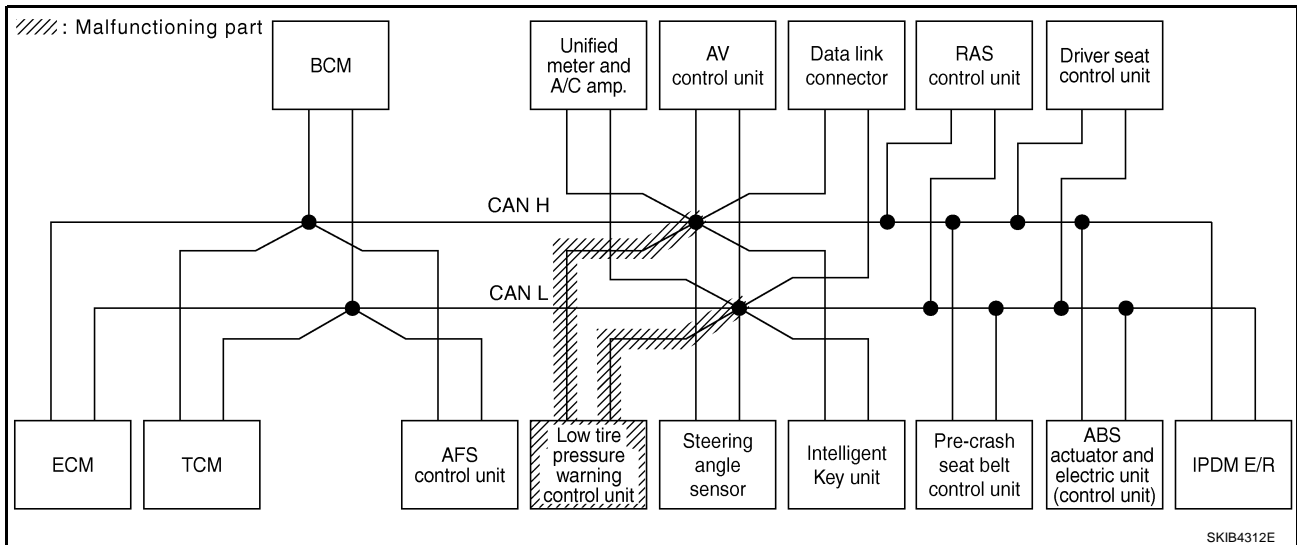
[CAN]

## Case 10

Check low tire pressure warning control unit circuit. Refer to [LAN-403, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8478E



LAN

# CAN SYSTEM (TYPE 8)

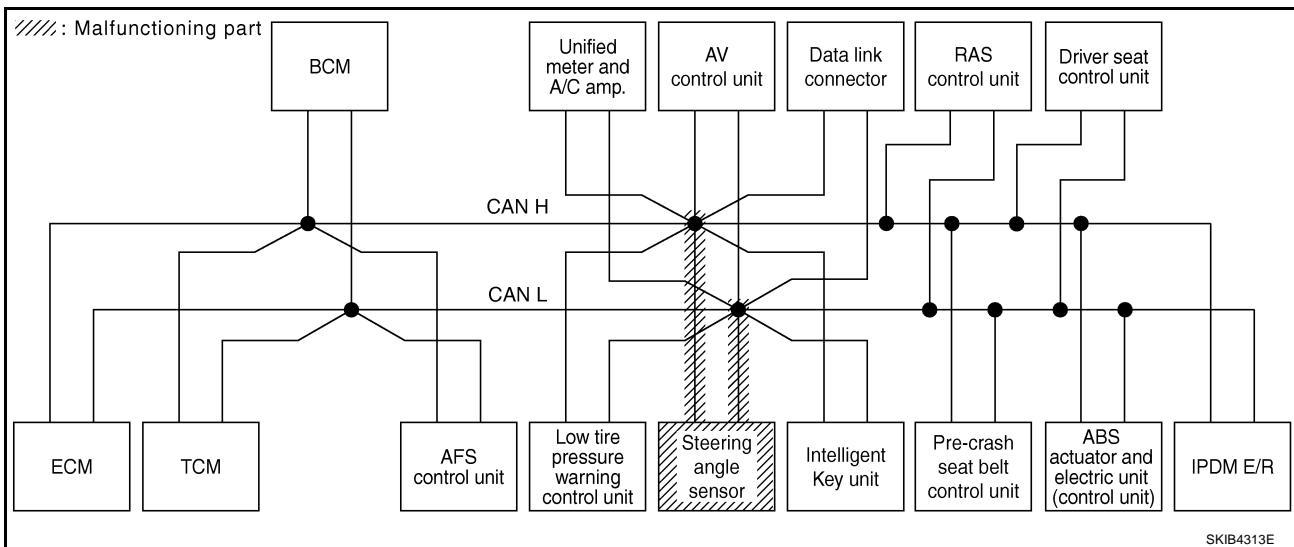
[CAN]

## Case 11

Check steering angle sensor circuit. Refer to [LAN-403, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8479E



SKIB4313E

# CAN SYSTEM (TYPE 8)

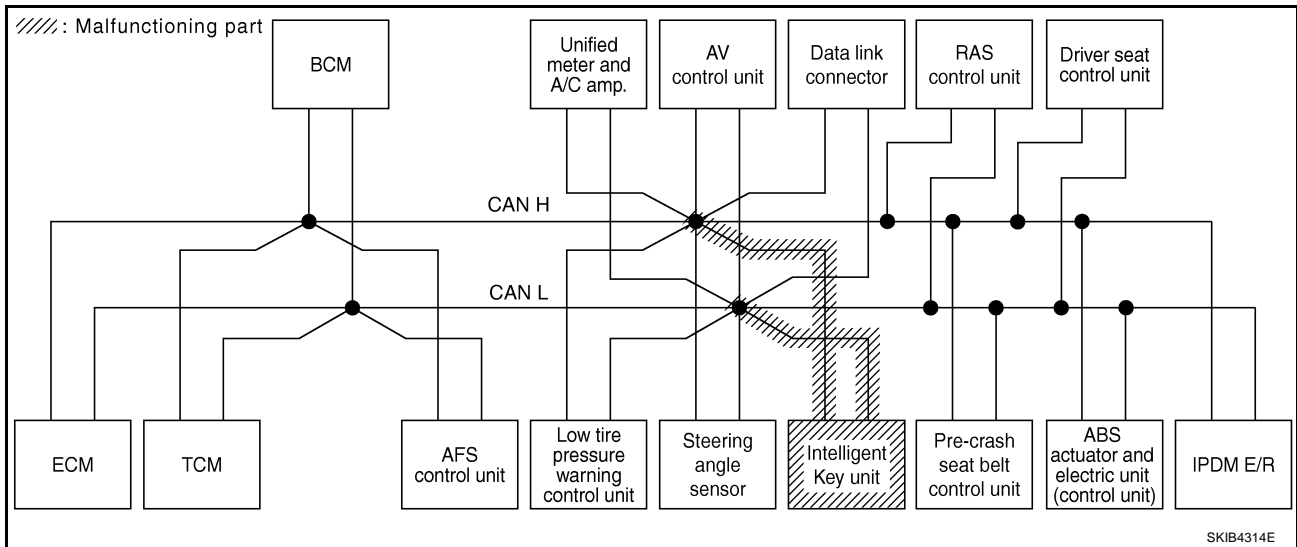
[CAN]

## Case 12

Check Intelligent Key unit circuit. Refer to [LAN-404, "Intelligent Key Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8480E



SKIB4314E

# CAN SYSTEM (TYPE 8)

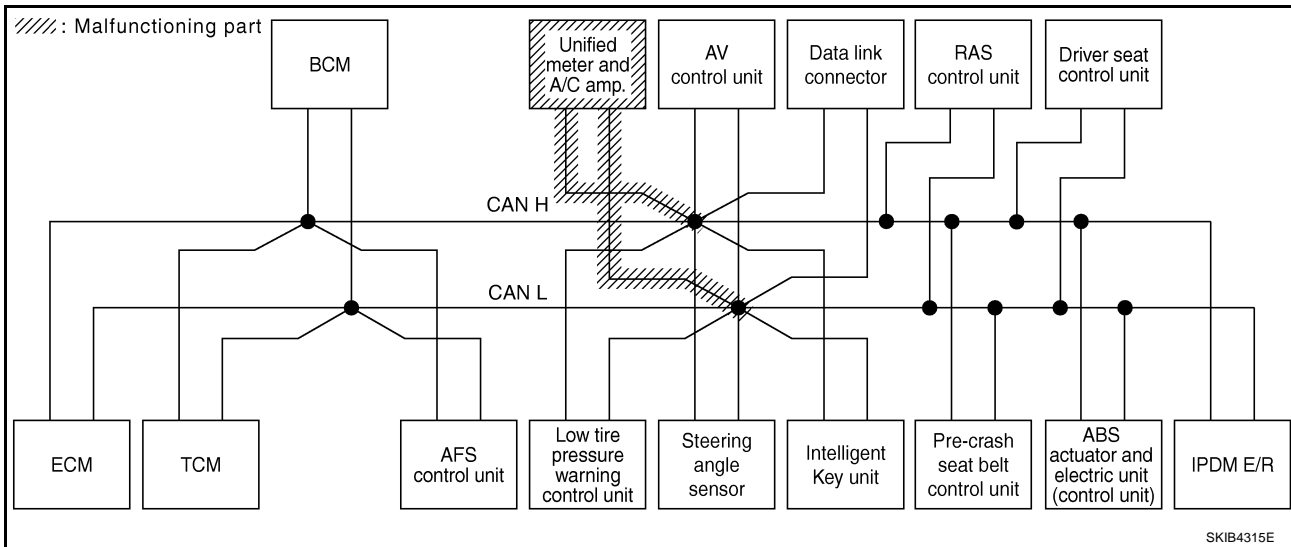
[CAN]

## Case 13

Check unified meter and A/C amp. circuit. Refer to [LAN-404, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS					
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	RAS	VDC/TCS/ABS					IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8481E



SKIB4315E



# CAN SYSTEM (TYPE 8)

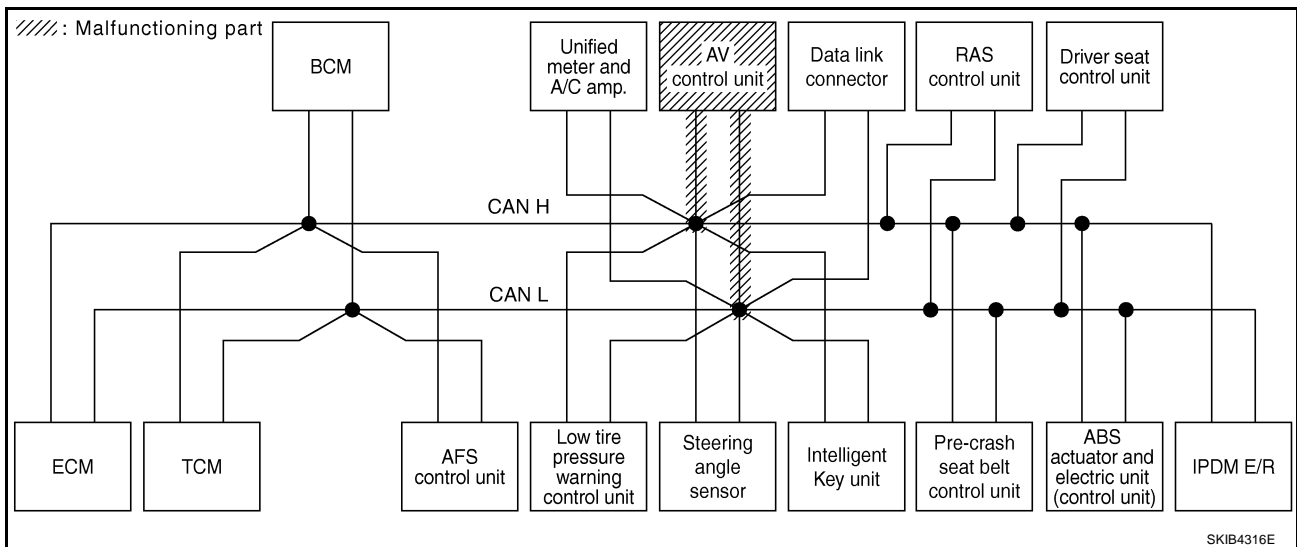
[CAN]

## Case 14

Check AV control unit circuit. Refer to [LAN-405, "AV Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTN														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8482E



SKIB4316E

# CAN SYSTEM (TYPE 8)

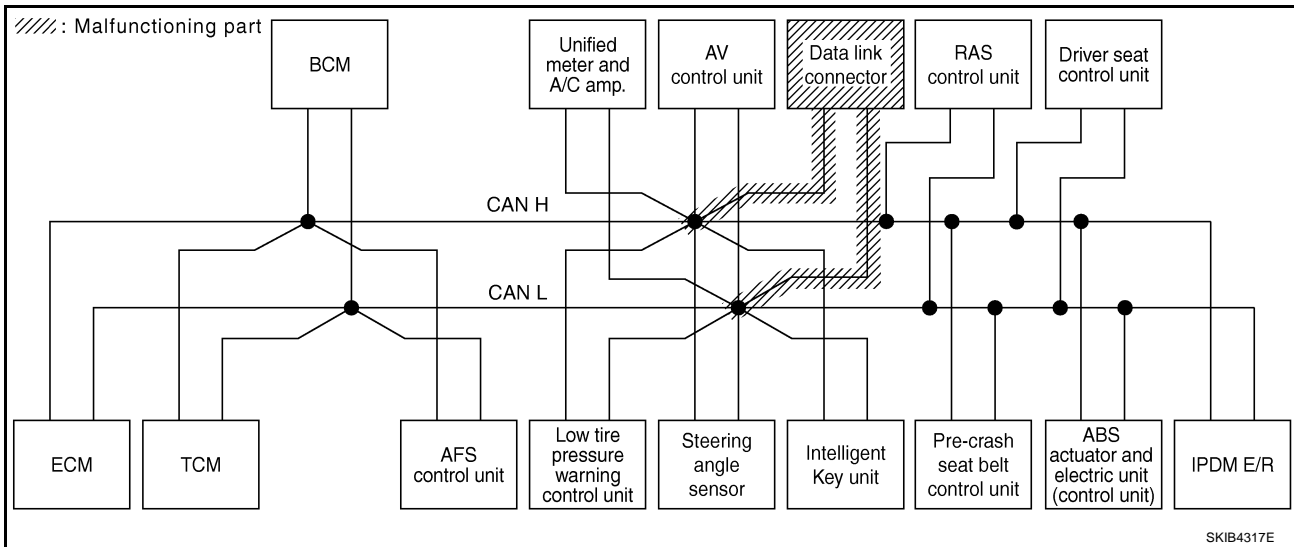
[CAN]

## Case 15

Check data link connector circuit. Refer to [LAN-405, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	RAS	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8483E



SKIB4317E

# CAN SYSTEM (TYPE 8)

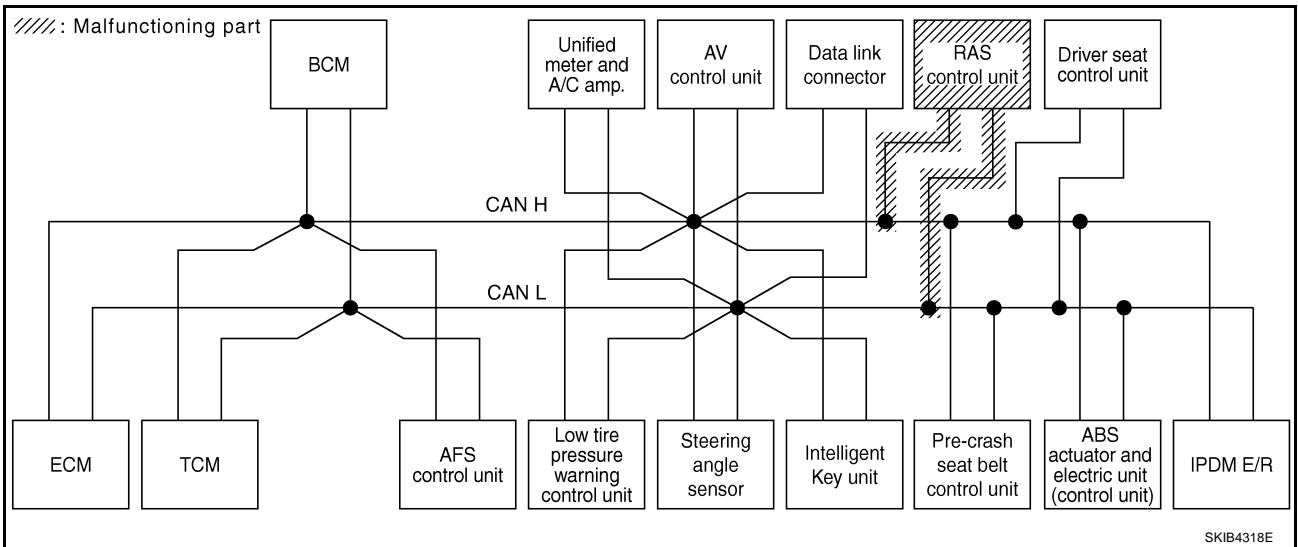
[CAN]

## Case 16

Check RAS control unit circuit. Refer to [LAN-406, "RAS Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTN														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8484E



SKIB4318E

# CAN SYSTEM (TYPE 8)

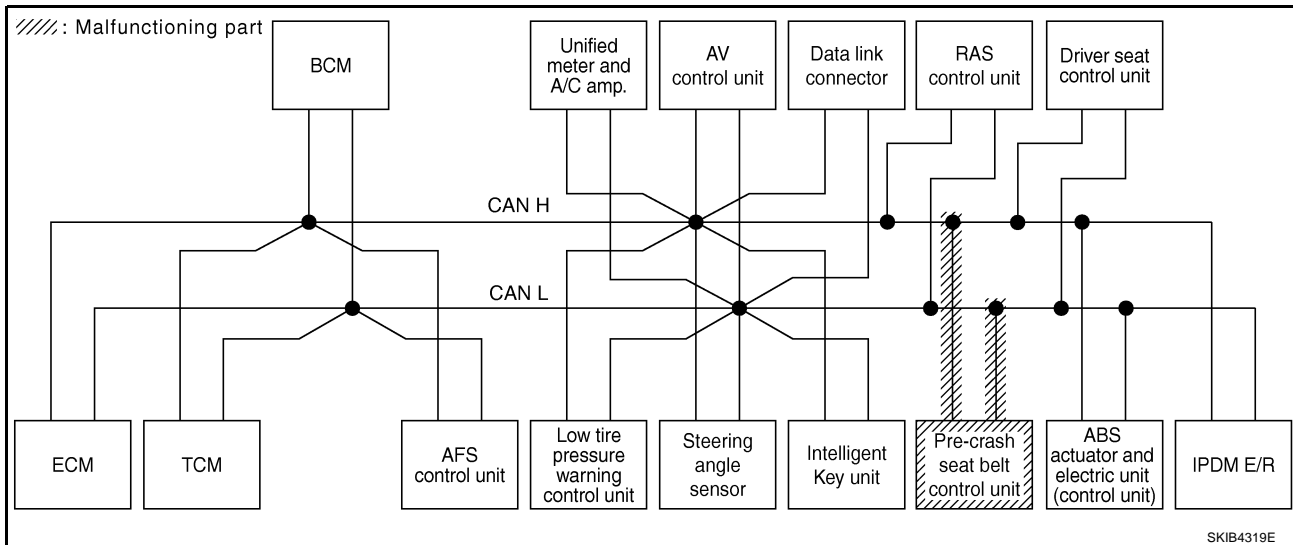
[CAN]

## Case 17

Check pre-crash seat belt control unit circuit. Refer to [LAN-406, "Pre-Crash Seat Belt Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—		
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—		
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		

PKIB8485E



SKIB4319E

# CAN SYSTEM (TYPE 8)

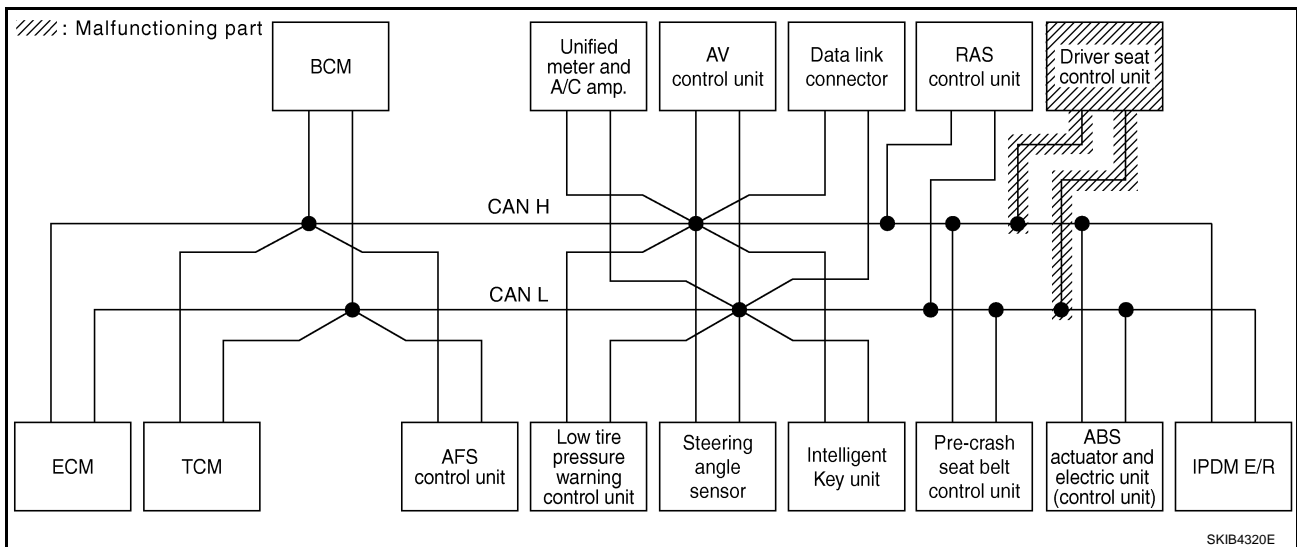
[CAN]

## Case 18

Check driver seat control unit circuit. Refer to [LAN-407, "Driver Seat Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8486E



SKIB4320E

# CAN SYSTEM (TYPE 8)

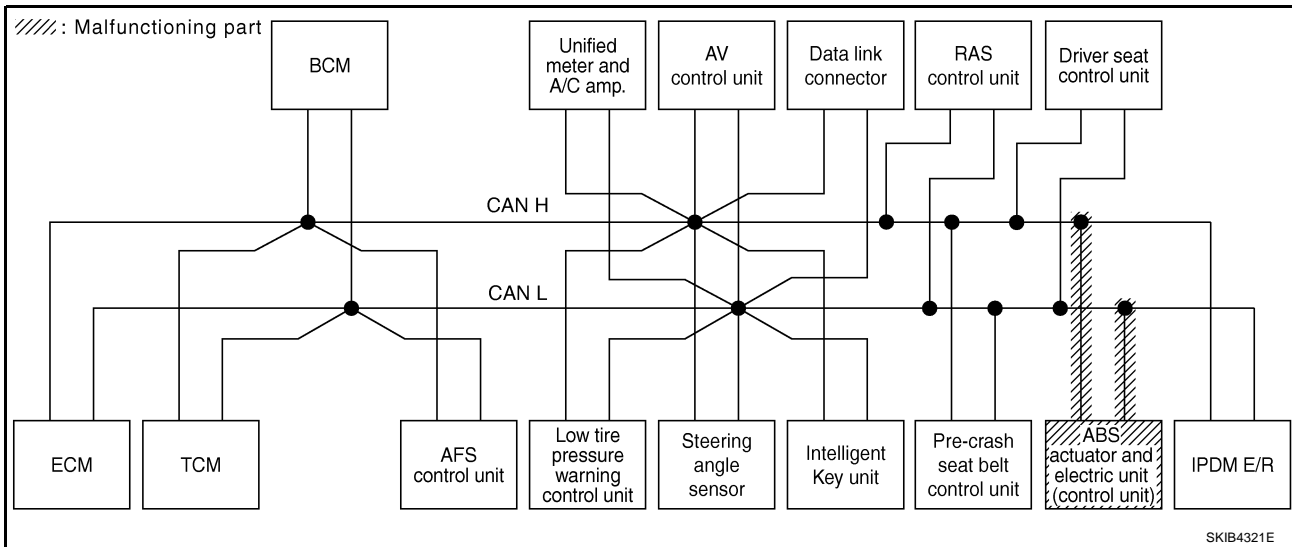
[CAN]

## Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-407, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS					
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS								
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	✓	✓	✓	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8487E



# CAN SYSTEM (TYPE 8)

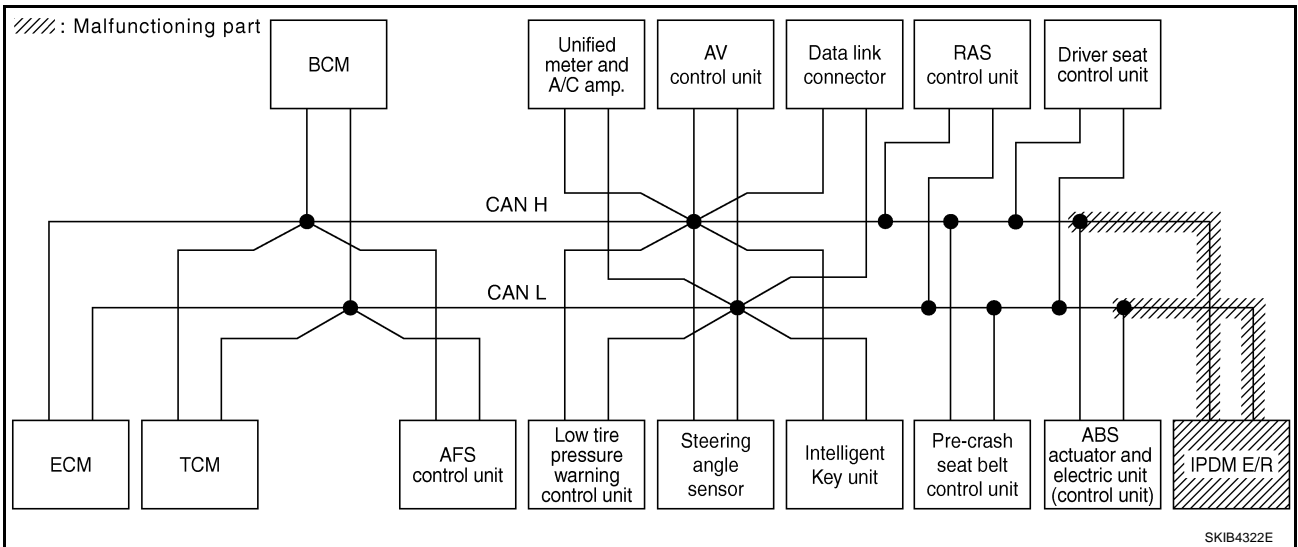
[CAN]

## Case 20

Check IPDM E/R circuit. Refer to [LAN-408. "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8488E



SKIB4322E

# CAN SYSTEM (TYPE 8)

[CAN]

## Case 21

Check CAN communication circuit. Refer to [LAN-409, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS				
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	UNKW	—	—	—	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8489E

## Case 22

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-416, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS				
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8490E



## Case 23

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-416, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8491E

## Inspection Between TCM and Data Link Connector Circuit

NKS0042M

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

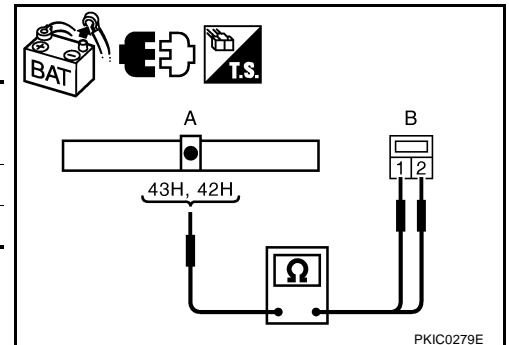
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



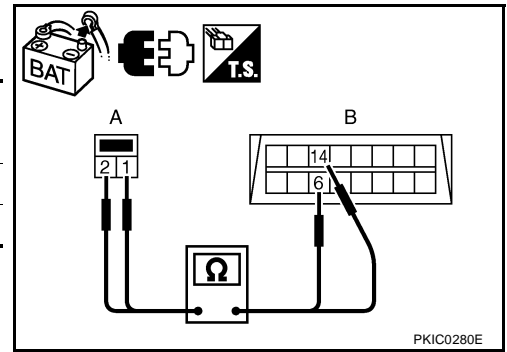
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and RAS Control Unit Circuit

NKS0042N

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

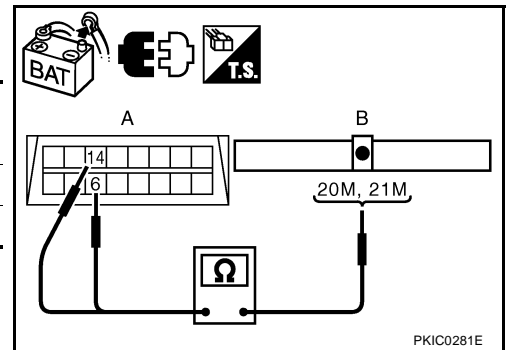
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



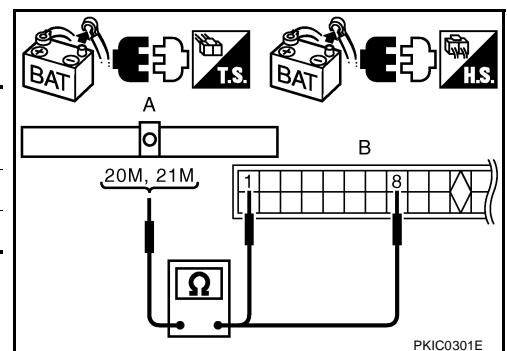
#### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect RAS control unit connector.
2. Check continuity between harness connector (A) and RAS control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B127	1	Yes
	21M		8	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



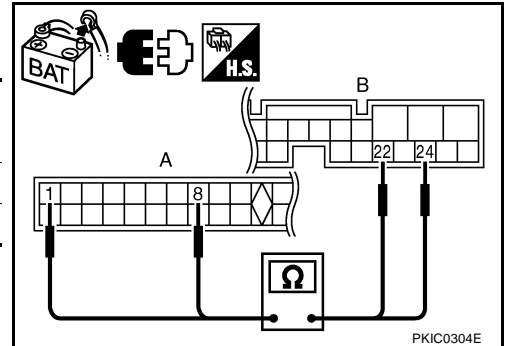
**Inspection Between RAS Control Unit and Pre-Crash Seat Belt Control Unit Circuit**

NKS00420

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - RAS control unit connector
  - Pre-crash seat belt control unit connector
4. Check continuity between RAS control unit harness connector (A) and pre-crash seat belt control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B127	1	B142	24	Yes
	8		22	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.

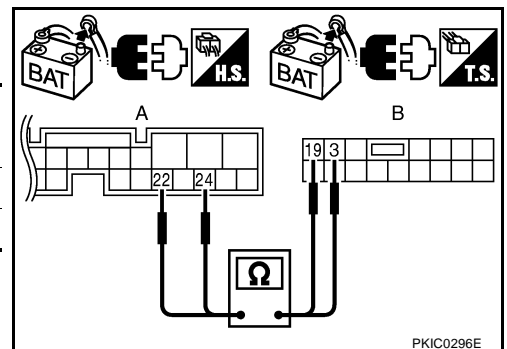
**Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit**

NKS0042P

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - Pre-crash seat belt control unit connector
  - harness connector B15
4. Check continuity between pre-crash seat belt control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B142	24	B15	3	Yes
	22		19	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.

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**Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit**

NKS0042Q

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

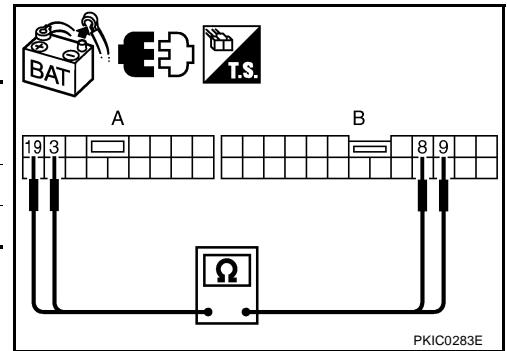
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

- OK >> GO TO 3.
- NG >> Replace harness.



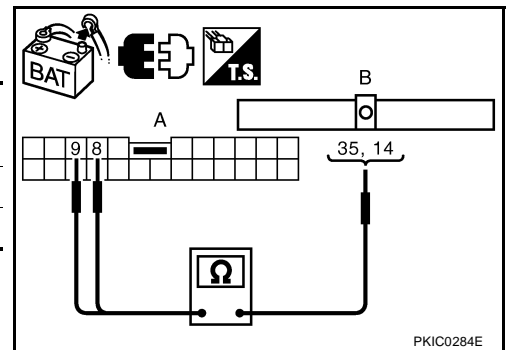
**3. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



**ECM Circuit Inspection**

NKS0042R

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

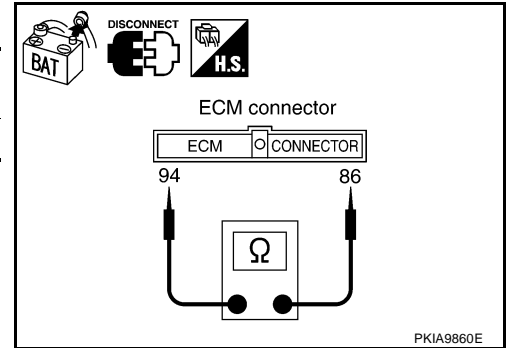
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

**OK or NG**

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.



NKS0042S

## TCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

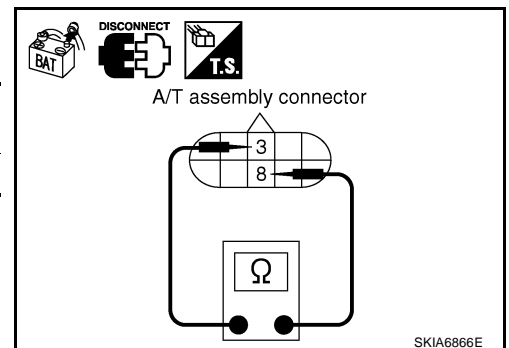
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.
- NG >> Repair harness between A/T assembly and AFS control unit.



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## AFS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

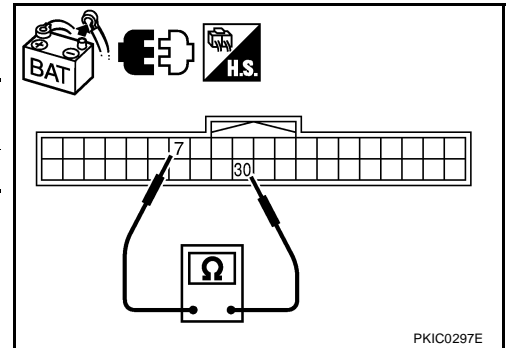
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
F110	30	7	54 – 66 Ω

OK or NG

- OK >> Replace AFS control unit.  
 NG >> Repair harness between AFS control unit and BCM.



## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

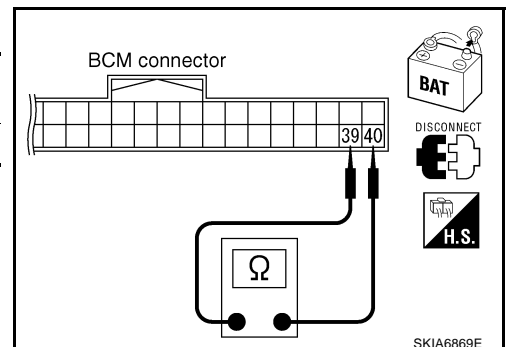
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#) .  
 NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

NKS0042V

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

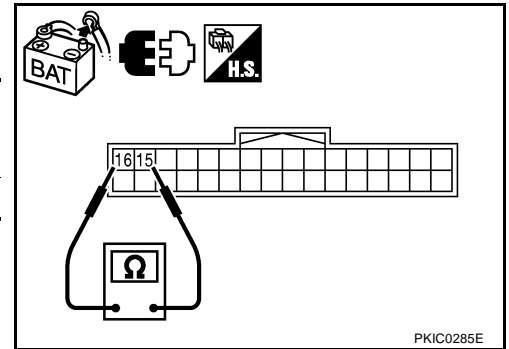
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

OK or NG

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS0042W

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

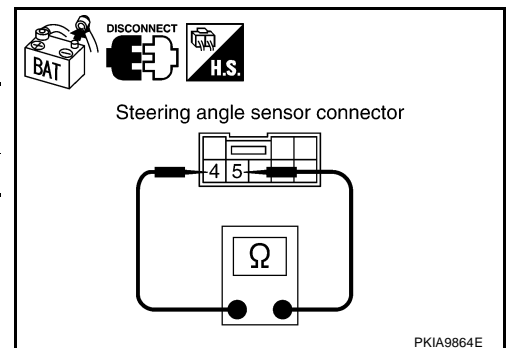
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	4	5	54 – 66 Ω

OK or NG

- OK >> Replace steering angle sensor.
- NG >> Repair harness between steering angle sensor and data link connector.



## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

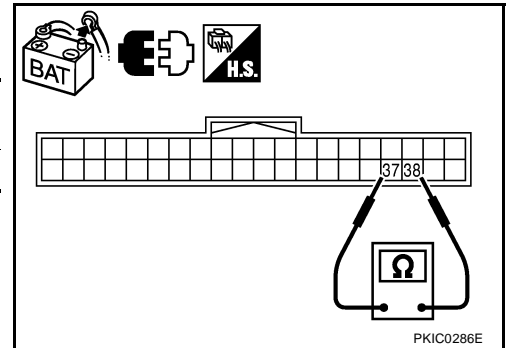
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
M32	38	37	54 – 66 Ω

OK or NG

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

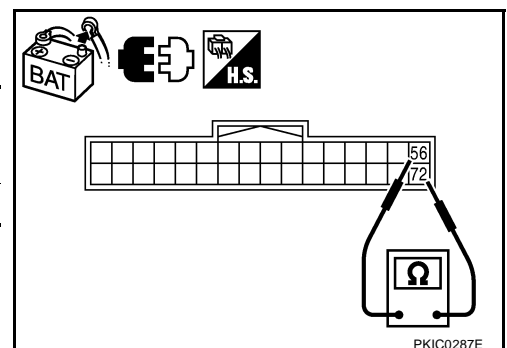
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
M65	56	72	54 – 66 Ω

OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.





**AV Control Unit Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AV control unit connector
  - Harness connector M216
  - Harness connector M53

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

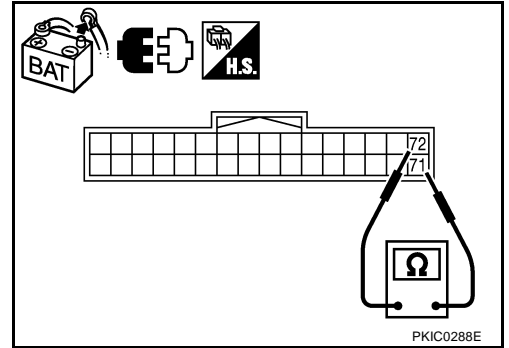
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect AV control unit connector.
2. Check resistance between AV control unit harness connector terminals.

AV control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

OK or NG

- OK >> Replace AV control unit.
- NG >> Repair harness between AV control unit and data link connector.



**Data Link Connector Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

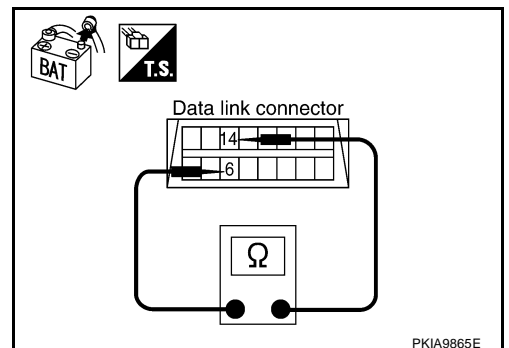
**2. CHECK HARNESS FOR OPEN CIRCUIT**

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



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## RAS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of RAS control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

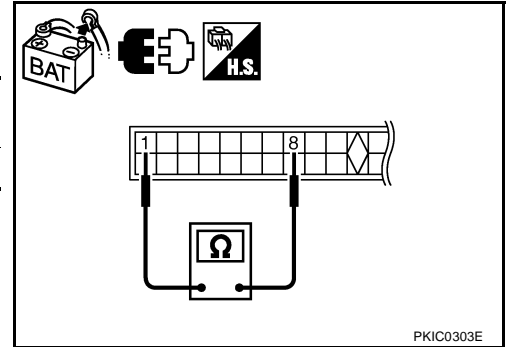
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect RAS control unit connector.
2. Check resistance between RAS control unit harness connector terminals.

RAS control unit connector	Terminal		Resistance (Approx.)
B127	1	8	54 – 66 Ω

OK or NG

- OK >> Replace RAS control unit.  
 NG >> Replace harness.



## Pre-Crash Seat Belt Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of pre-crash seat belt control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

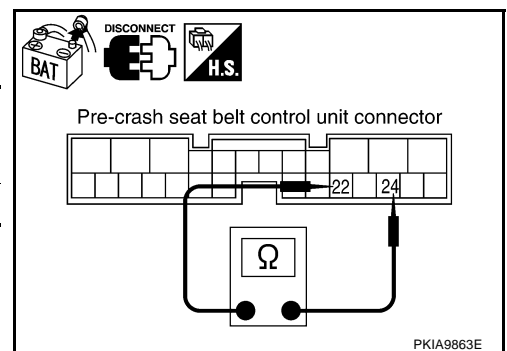
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check resistance between pre-crash seat belt control unit harness connector terminals.

Pre-crash seat belt control unit connector	Terminal		Resistance (Approx.)
B142	24	22	54 – 66 Ω

OK or NG

- OK >> Replace pre-crash seat belt control unit.  
 NG >> Replace harness.



**Driver Seat Control Unit Circuit Inspection**

NKS00433

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

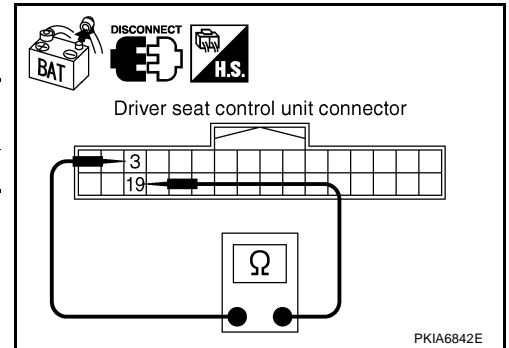
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Replace harness.



**ABS Actuator and Electric Unit (Control Unit) Circuit Inspection**

NKS00434

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

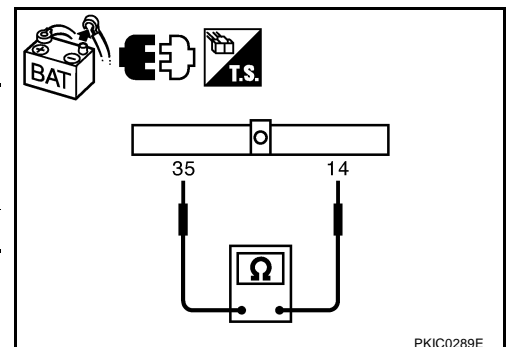
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



**IPDM E/R Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

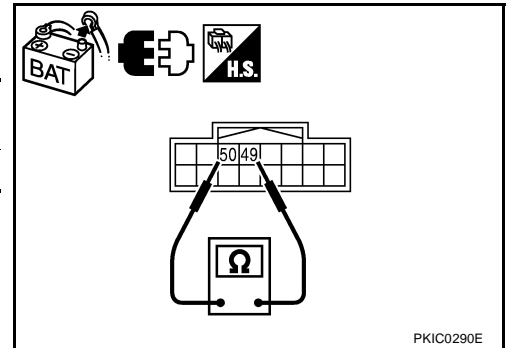
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

**OK or NG**

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and harness connector E105.



PKIC0290E

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - RAS control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
    - Between ECM and A/T assembly
    - Between ECM and AFS control unit
    - Between ECM and AV control unit
    - Between ECM and driver seat control unit
    - Between ECM and IPDM E/R

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

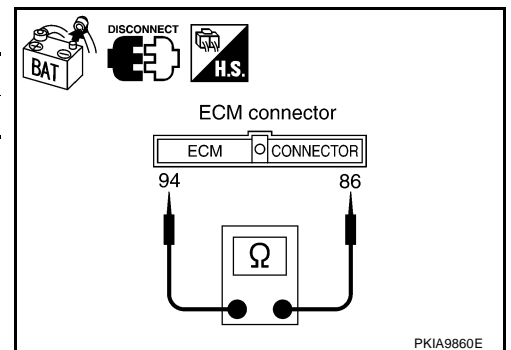
### 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



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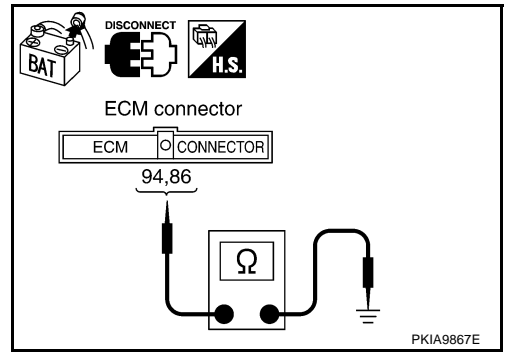
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		
	86	No	

**OK or NG**

- OK >> GO TO 4.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



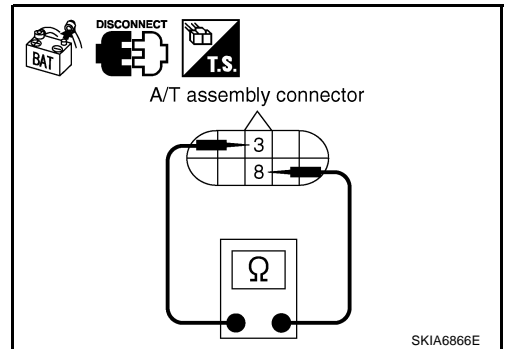
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.
- NG >> Repair harness between A/T assembly and harness connector F102.



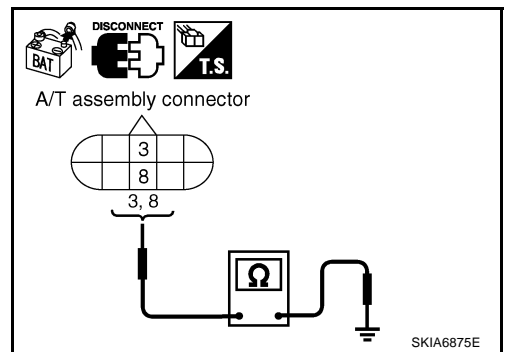
## 5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

**OK or NG**

- OK >> GO TO 6.
- NG >> Repair harness between A/T assembly and harness connector F102.



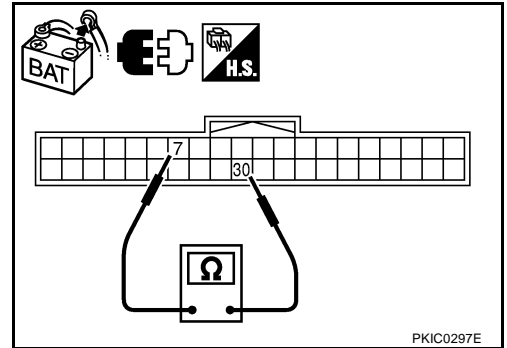
**6. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Continuity
F110	30	7	No

**OK or NG**

- OK >> GO TO 7.  
 NG >> Repair harness between AFS control unit and harness connector F102.



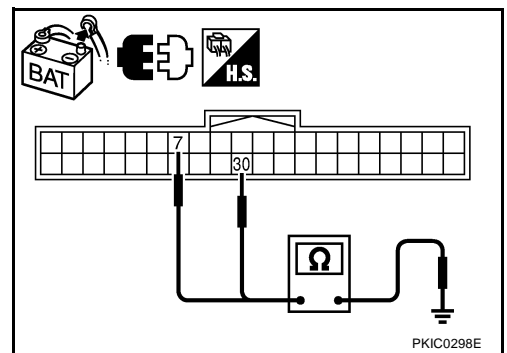
**7. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		No
	7	No	

**OK or NG**

- OK >> GO TO 8.  
 NG >> Replace harness between AFS control unit and harness connector F102.



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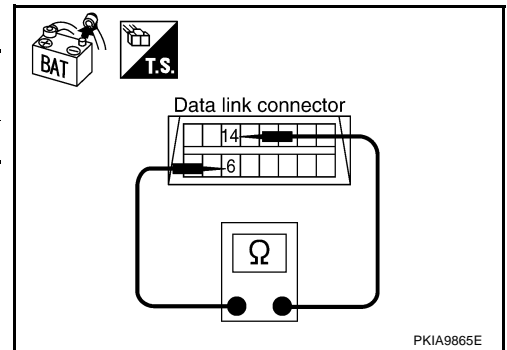
**8. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

Data link connector	Terminal		Continuity
	6	14	
M60			No

**OK or NG**

- OK >> GO TO 9.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



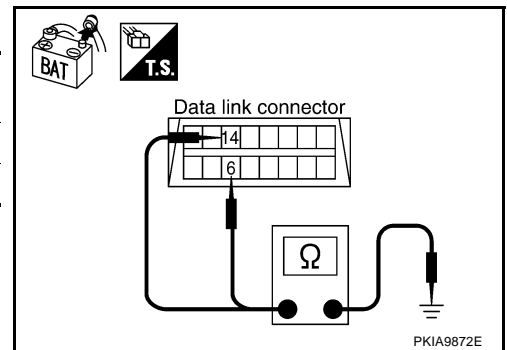
**9. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between data link connector terminals and ground.

Data link connector	Terminal	Ground	Continuity
M60	6		No
	14		No

**OK or NG**

- OK >> GO TO 10.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13





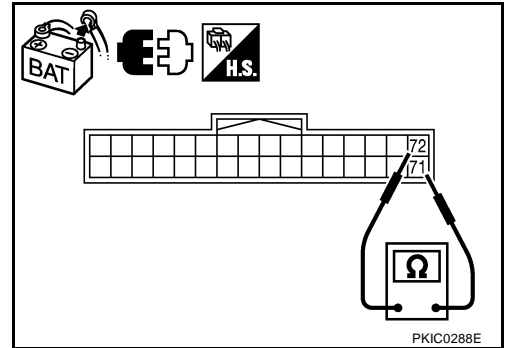
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect AV control unit connector.
2. Check continuity between AV control unit harness connector terminals.

AV control unit connector	Terminal		Continuity
M210	71	72	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Repair harness between AV control unit and harness connector M216.



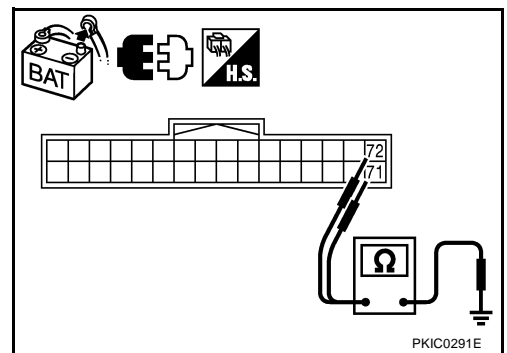
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between AV control unit harness connector terminals and ground.

AV control unit connector	Terminal	Ground	Continuity
M210	71		No
	72	No	

**OK or NG**

- OK >> GO TO 12.  
 NG >> Repair harness between AV control unit and harness connector M216.



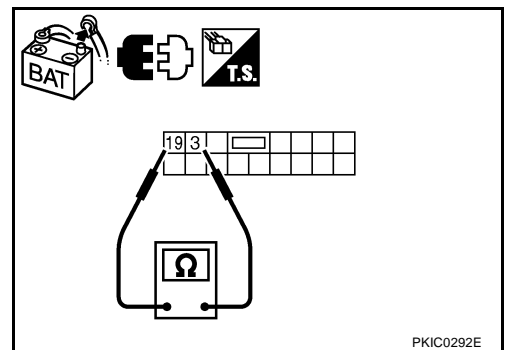
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - RAS control unit connector
  - Pre-crash seat belt control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Replace harness.



A  
B  
C  
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M

LAN

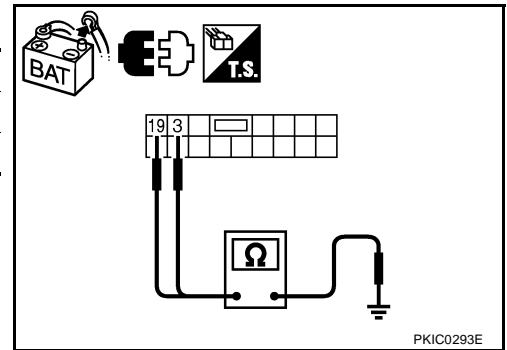
### 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		
	19	No	

OK or NG

- OK >> GO TO 14.
- NG >> Replace harness.



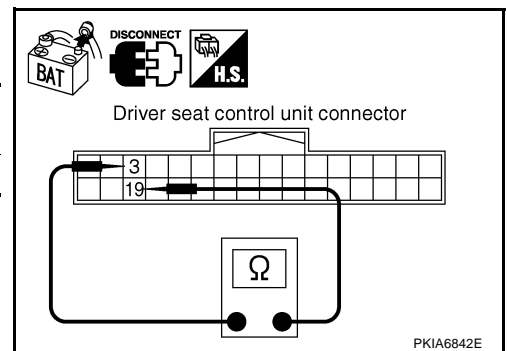
### 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal	Continuity
B204	3, 19	No

OK or NG

- OK >> GO TO 15.
- NG >> Repair harness between driver seat control unit and harness connector B202.



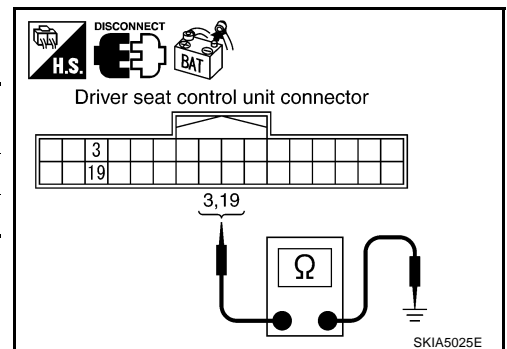
### 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		
	19	No	

OK or NG

- OK >> GO TO 16.
- NG >> Repair harness between driver seat control unit and harness connector B202.



## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

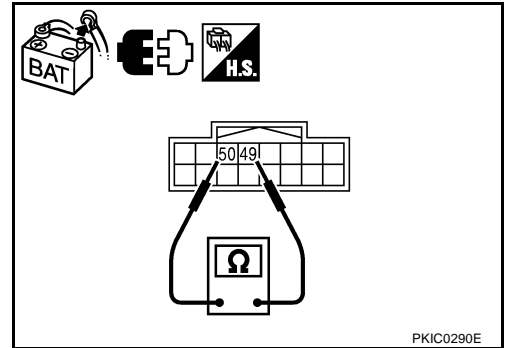
IPDM E/R connector	Terminal		Continuity
	49	50	
E9	49	50	No

**OK or NG**

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0290E

## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

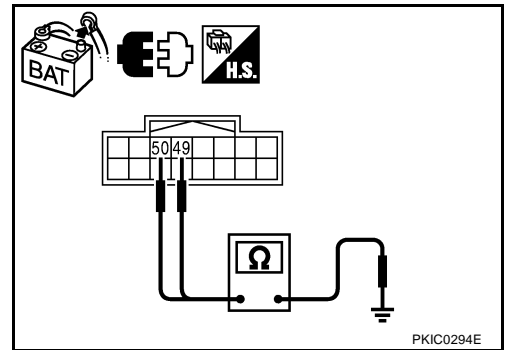
IPDM E/R connector	Terminal	Ground	Continuity
	49		No
E9	50	Ground	No

**OK or NG**

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0294E

## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal	Terminal	Resistance (Approx.)
94	86	108 – 132 Ω

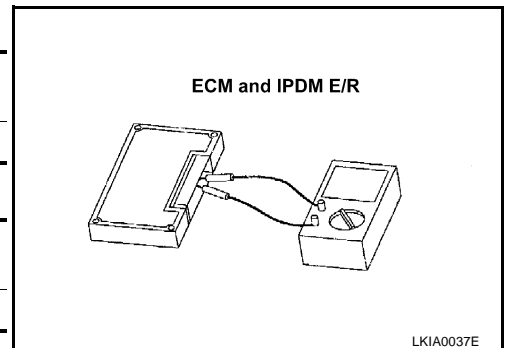
3. Check resistance between IPDM E/R terminals.

Terminal	Terminal	Resistance (Approx.)
49	50	108 – 132 Ω

**OK or NG**

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



LKIA0037E

## 19. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - RAS control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

NKS00437

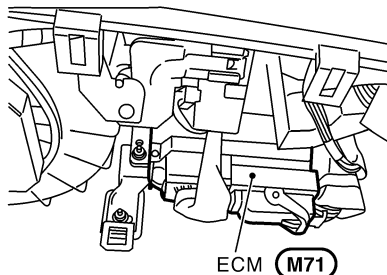
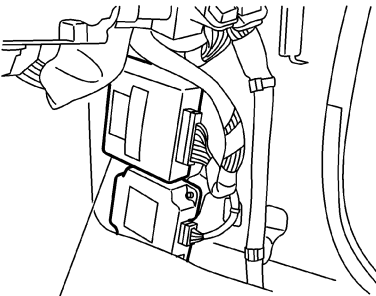
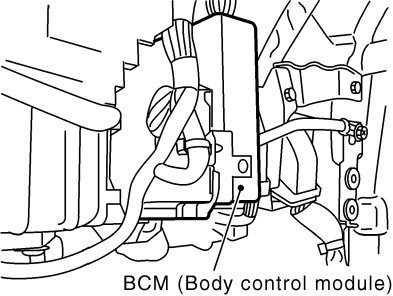
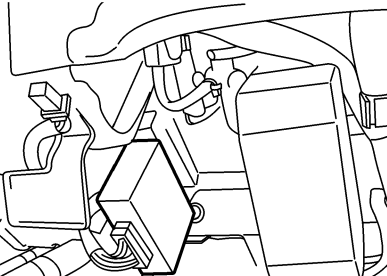
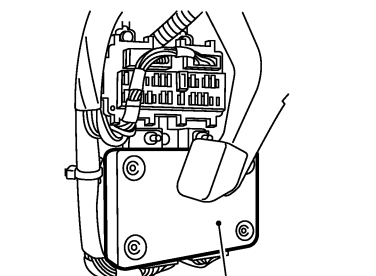
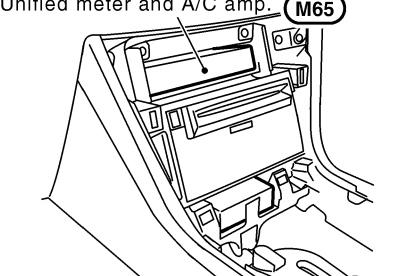
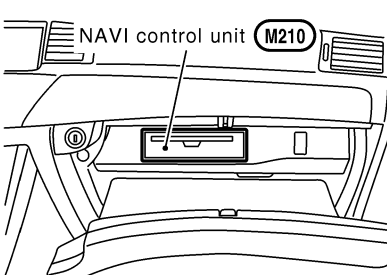
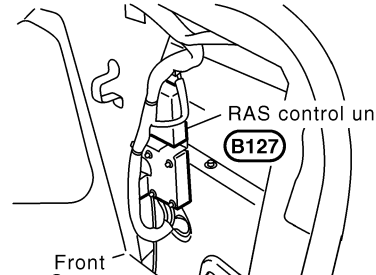
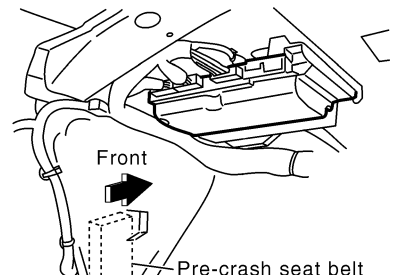
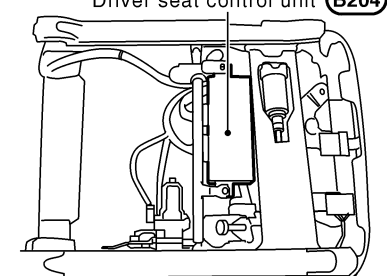
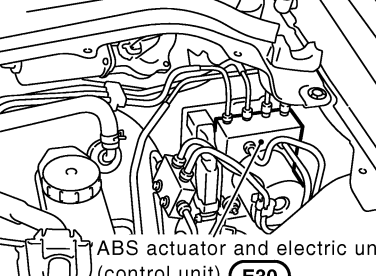
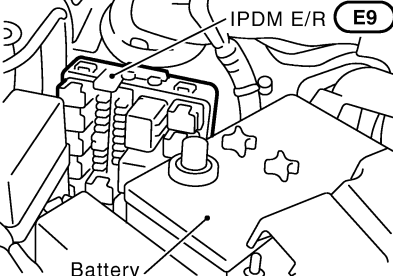
Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)

## CAN SYSTEM (TYPE 9)

### Component Parts and Harness Connector Location

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

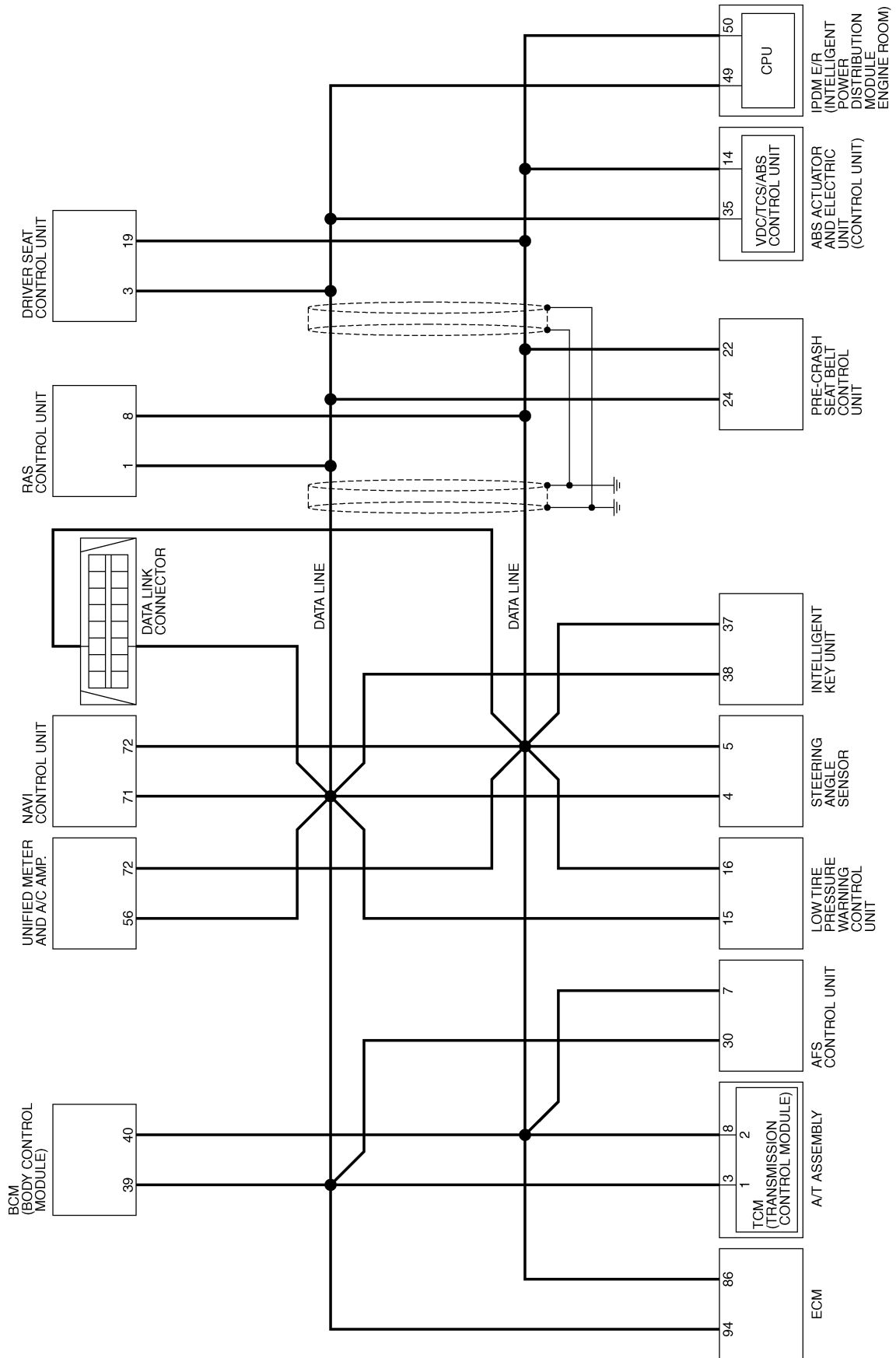
<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>NAVI control unit (M210)</p>	<p>View with trunk side RH finisher removed</p>  <p>RAS control unit (B127)</p> <p>Front</p>	<p>View with trunk side LH finisher and front finisher removed</p>  <p>Pre-crash seat belt control unit (B142)</p> <p>Front</p>
<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>	<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>

# CAN SYSTEM (TYPE 9)

[CAN]

## Schematic

NKS00439



TKW73285E

# CAN SYSTEM (TYPE 9)

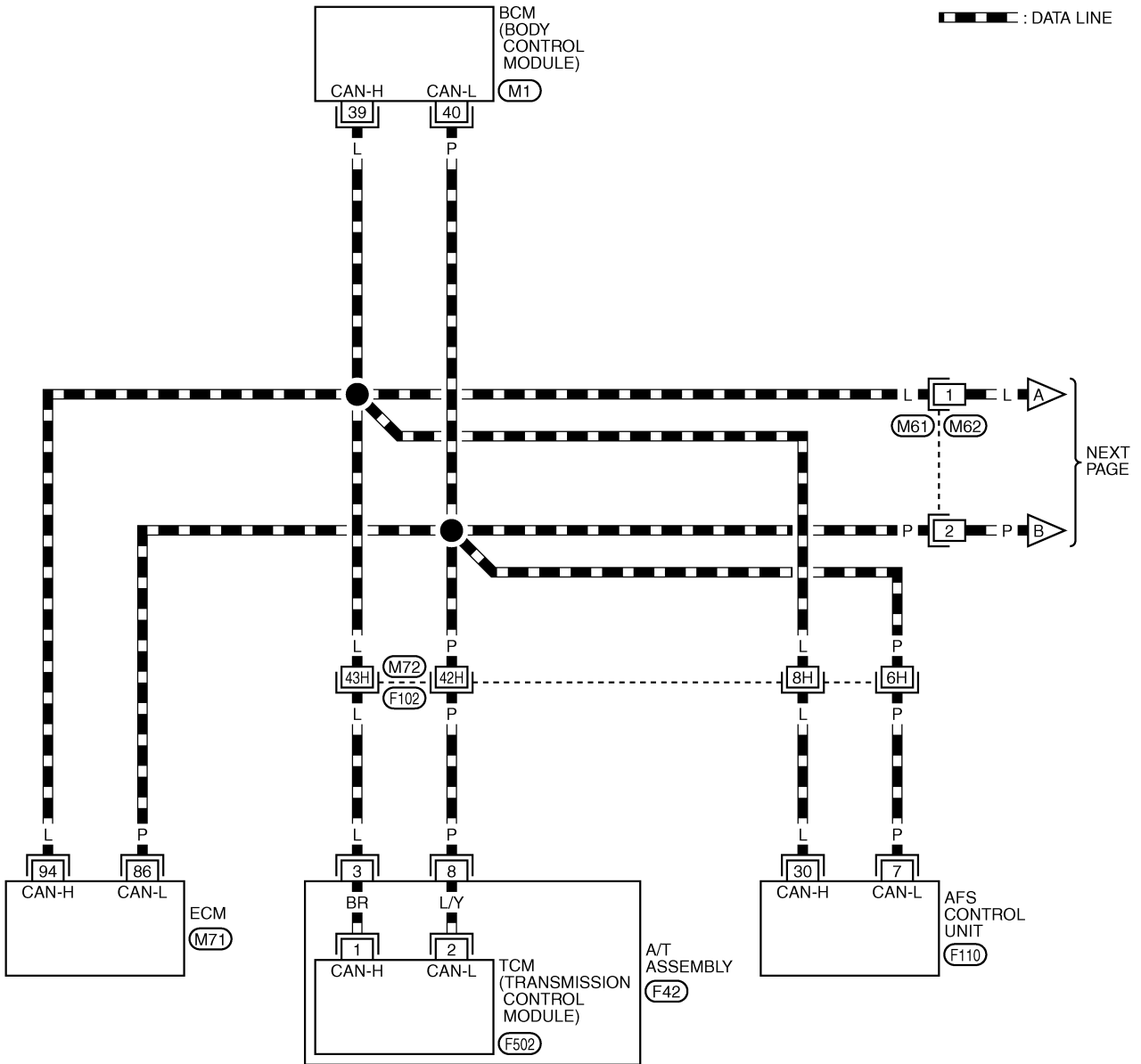
[CAN]

NKS0043A

## Wiring Diagram — CAN —

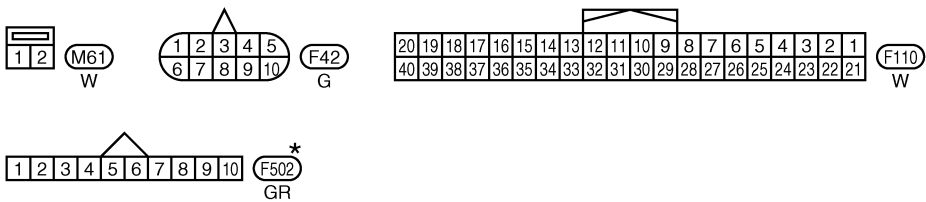
### LAN-CAN-31

▬ : DATA LINE



NEXT PAGE

LAN



REFER TO THE FOLLOWING.  
 (F102) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

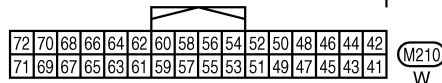
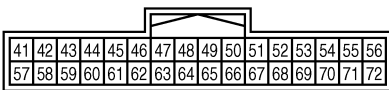
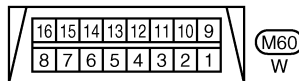
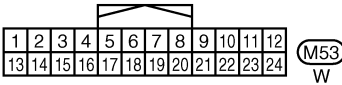
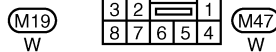
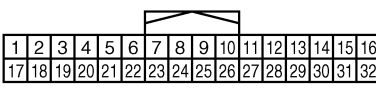
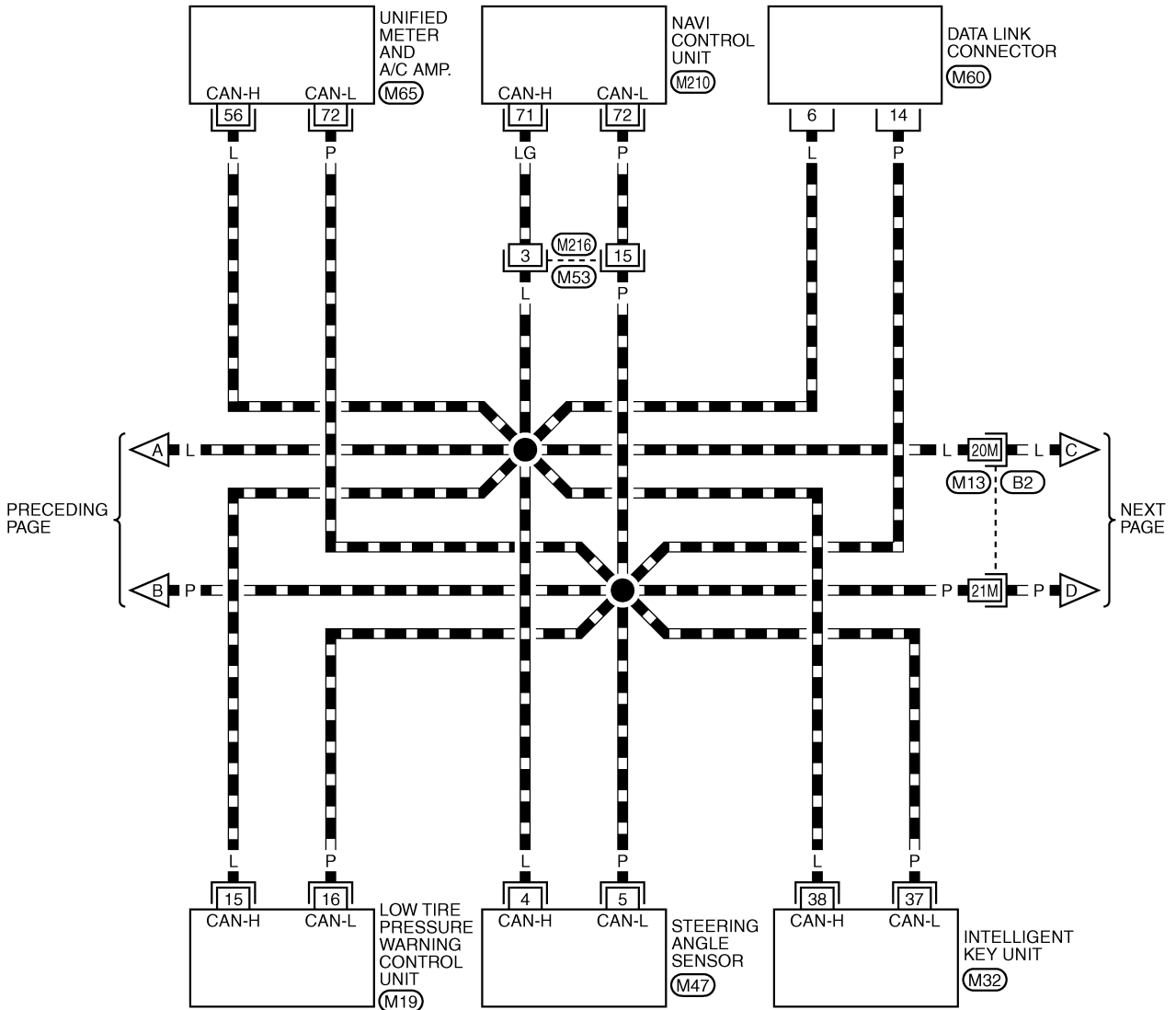
TKWT3286E

# CAN SYSTEM (TYPE 9)

[CAN]

## LAN-CAN-32

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

TKWT3287E

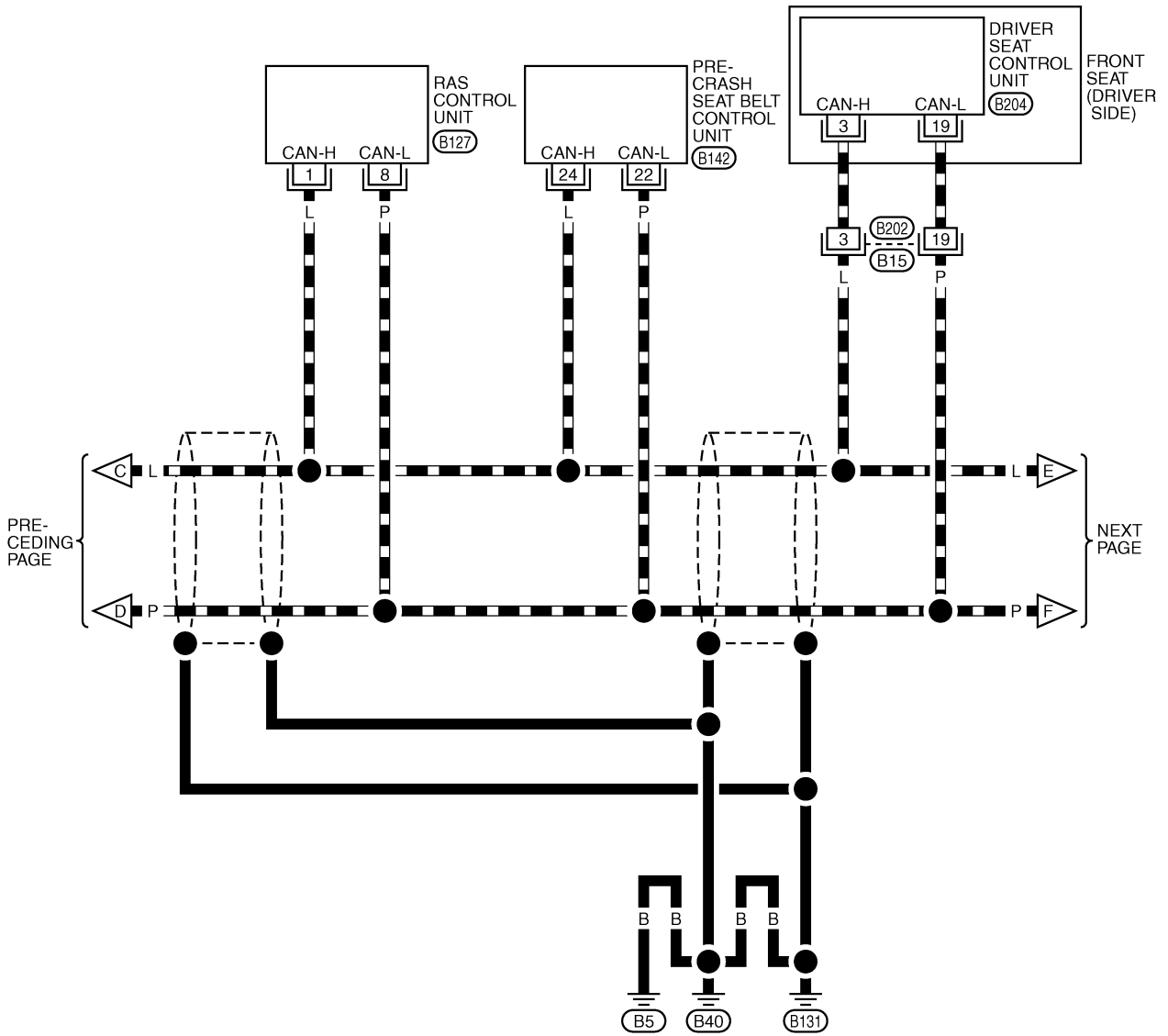


# CAN SYSTEM (TYPE 9)

[CAN]

## LAN-CAN-33

▬ : DATA LINE



19	3	1		17	40	
61	60	59	32	48	21	33

(B15)  
W

1	2	3	4	5	6	7	8	9	10	21	22	23	24	25	26	27	28	37	38	39	40
11	12	13	14	15	16	17	18	19	20	29	30	31	32	33	34	35	36				

(B127)  
W



6	5	4	12	11	10	9	8	7	3	2	1		
26	25	24	23	22	21	20	19	18	17	16	15	14	13

(B142)  
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

(B204)  
W

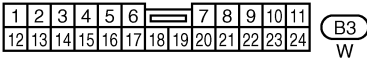
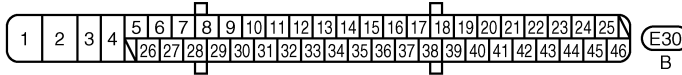
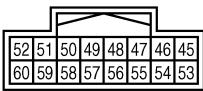
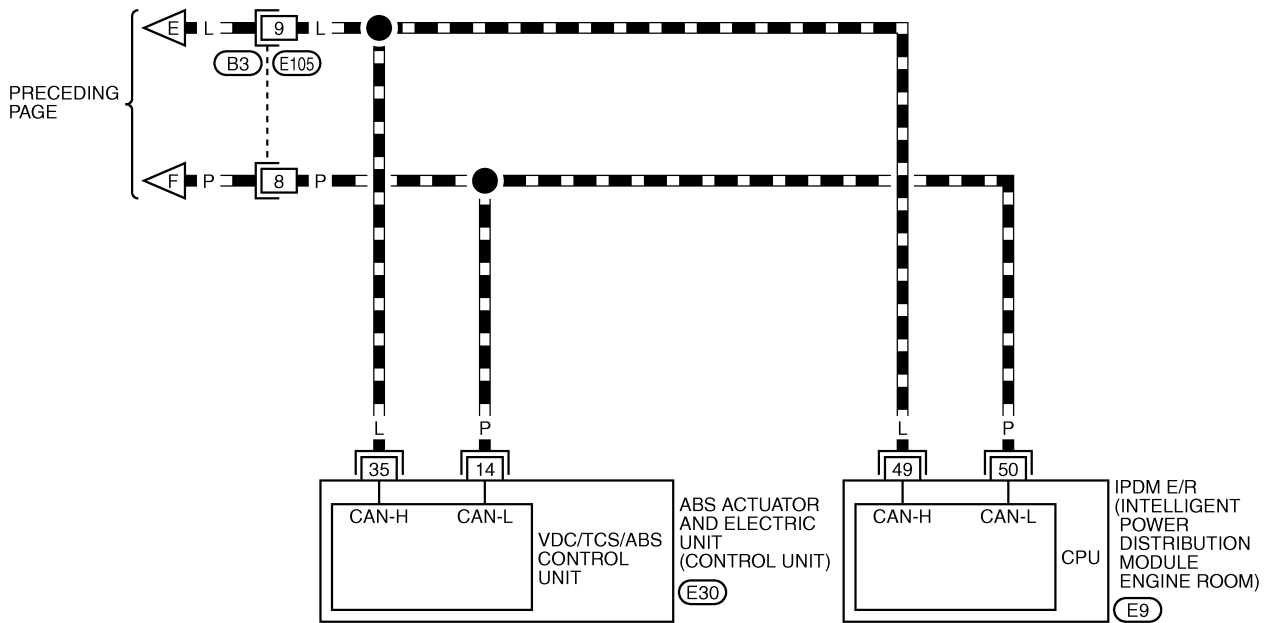


\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3288E

## LAN-CAN-34

▬ : DATA LINE



TKWT3289E

# CAN SYSTEM (TYPE 9)

[CAN]

NKS0043B

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

A  
B  
C  
D  
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LAN  
L  
M

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8468E

# CAN SYSTEM (TYPE 9)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
RAS/HICAS  
SELF-DIAG RESULTS

Attach copy of  
PRECRASH SEATBELT  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9563E

# CAN SYSTEM (TYPE 9)

[CAN]

A  
B  
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D  
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G  
H  
I  
J  
LAN  
L  
M

Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
RAS/HICAS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
PRECRASH SEATBELT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9564E

# CAN SYSTEM (TYPE 9)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

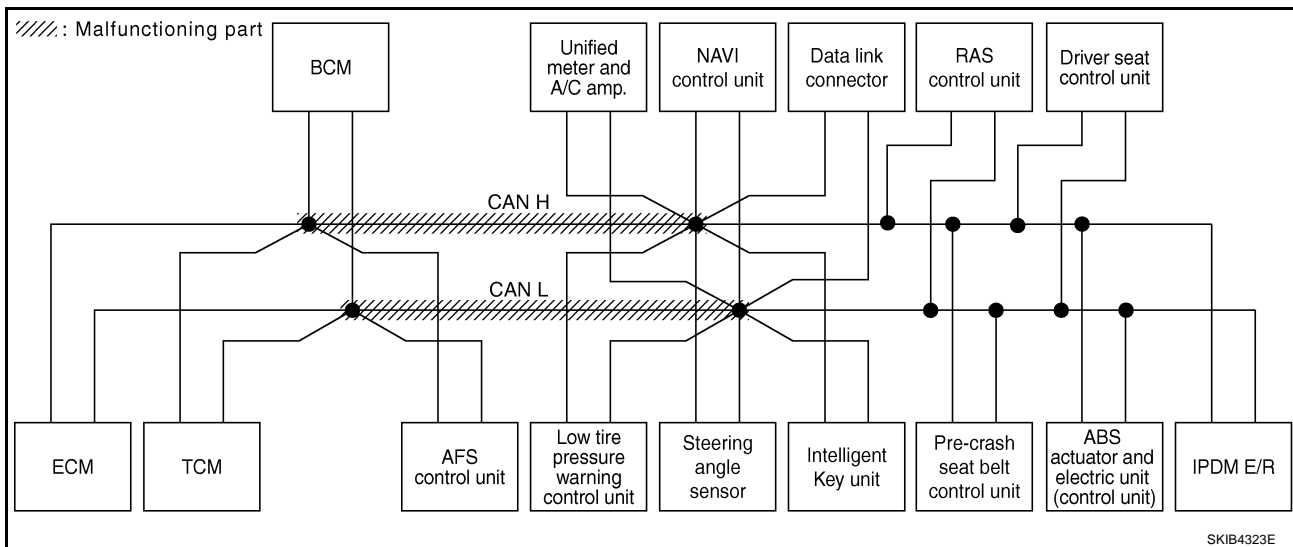
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-447, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8469E



SKIB4323E

# CAN SYSTEM (TYPE 9)

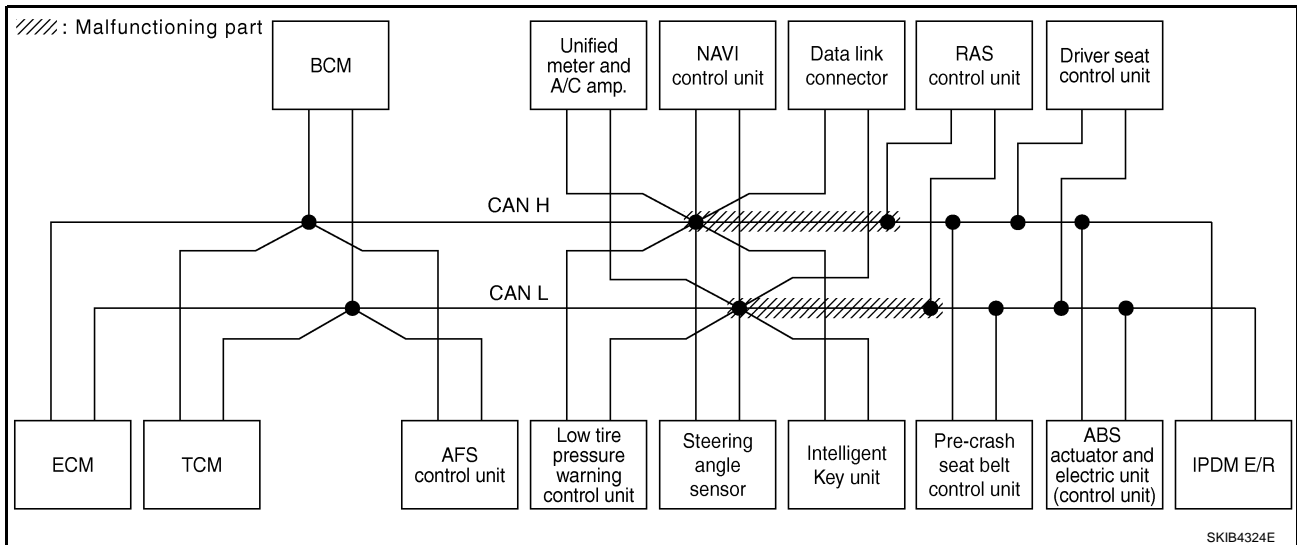
[CAN]

## Case 2

Check harness between data link connector and RAS control unit. Refer to [LAN-448, "Inspection Between Data Link Connector and RAS Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8470E



SKIB4324E

# CAN SYSTEM (TYPE 9)

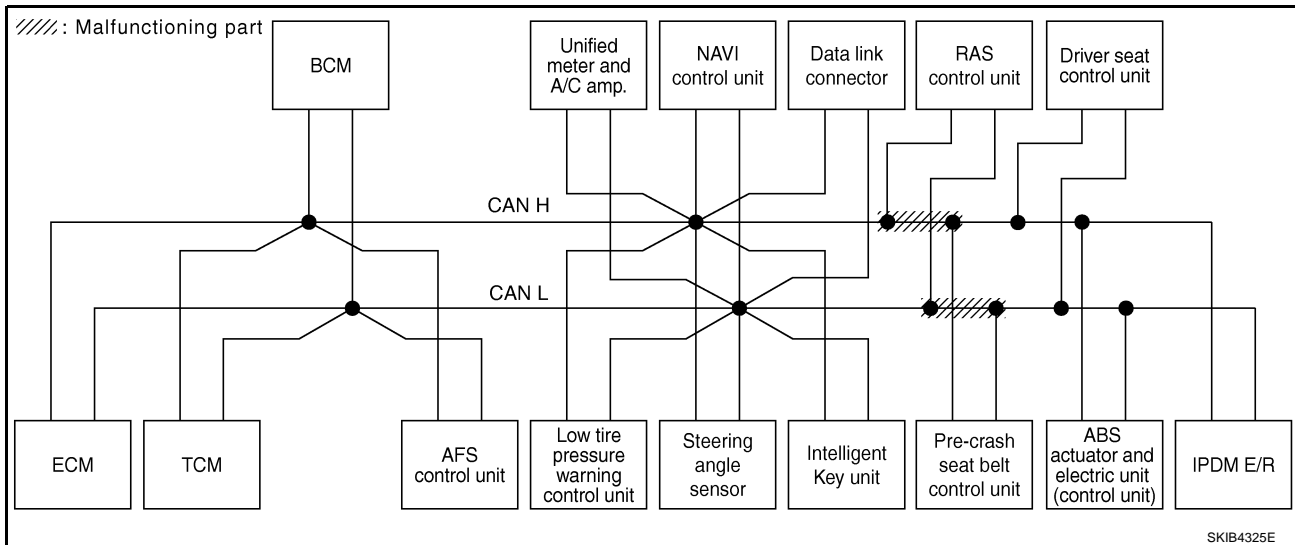
[CAN]

## Case 3

Check harness between RAS control unit and pre-crash seat belt control unit. Refer to [LAN-449, "Inspection Between RAS Control Unit and Pre-Crash Seat Belt Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	IPDM E/R					
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB471E





# CAN SYSTEM (TYPE 9)

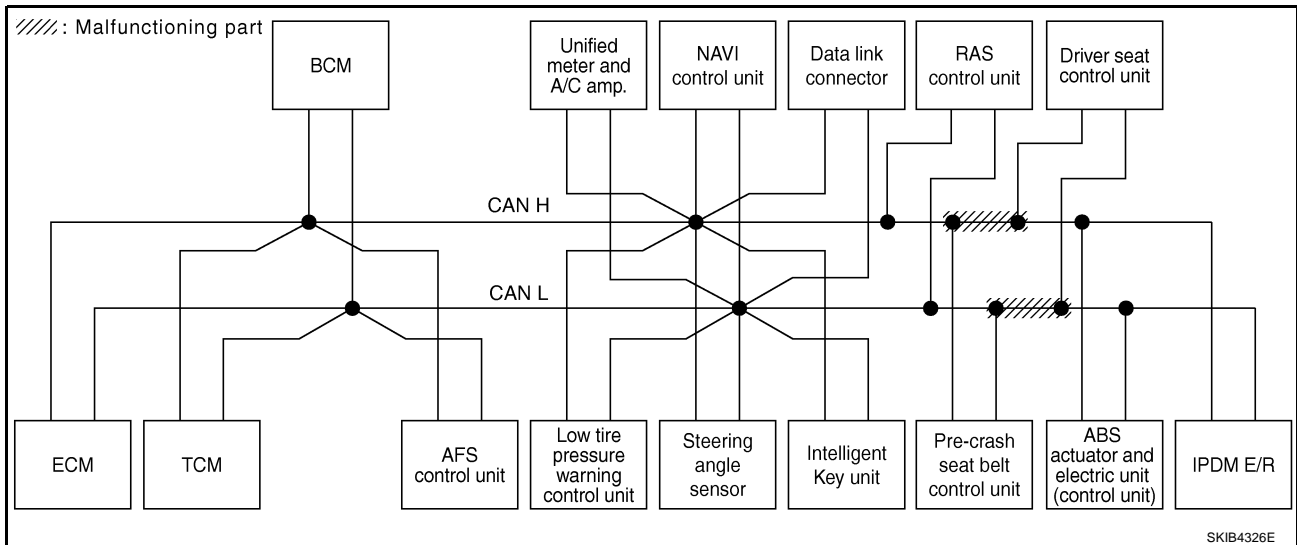
[CAN]

## Case 4

Check harness between pre-crash seat belt control unit and driver seat control unit. Refer to [LAN-449](#), "Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit" .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8472E



SKIB4326E

# CAN SYSTEM (TYPE 9)

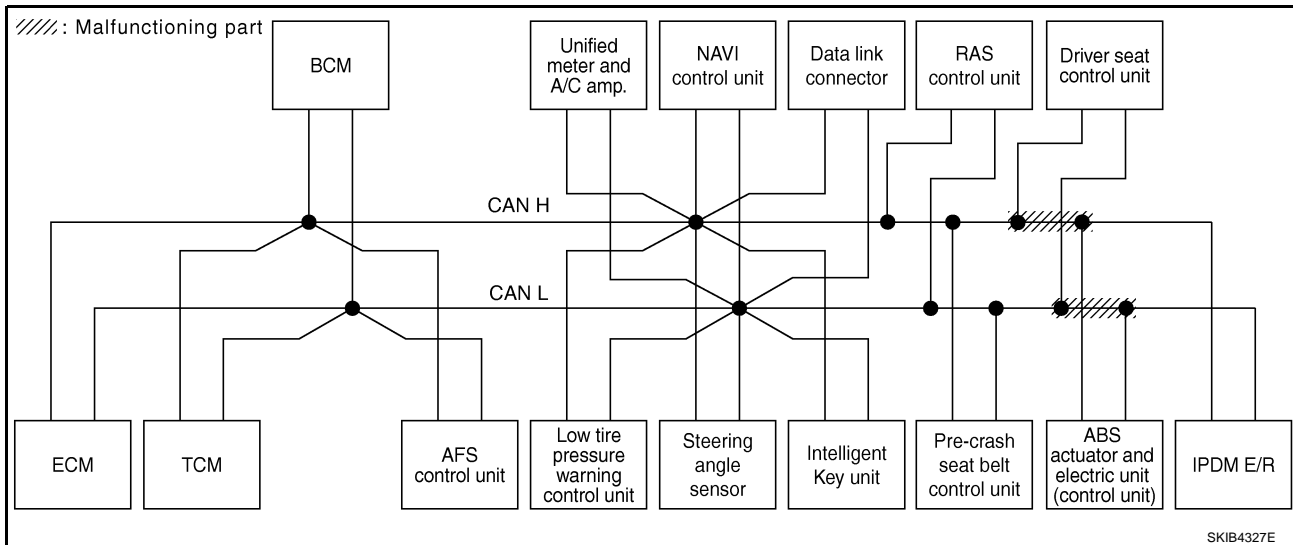
[CAN]

## Case 5

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-450, "Inspection Between Driver seat control unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS						
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8473E



SKIB4327E

# CAN SYSTEM (TYPE 9)

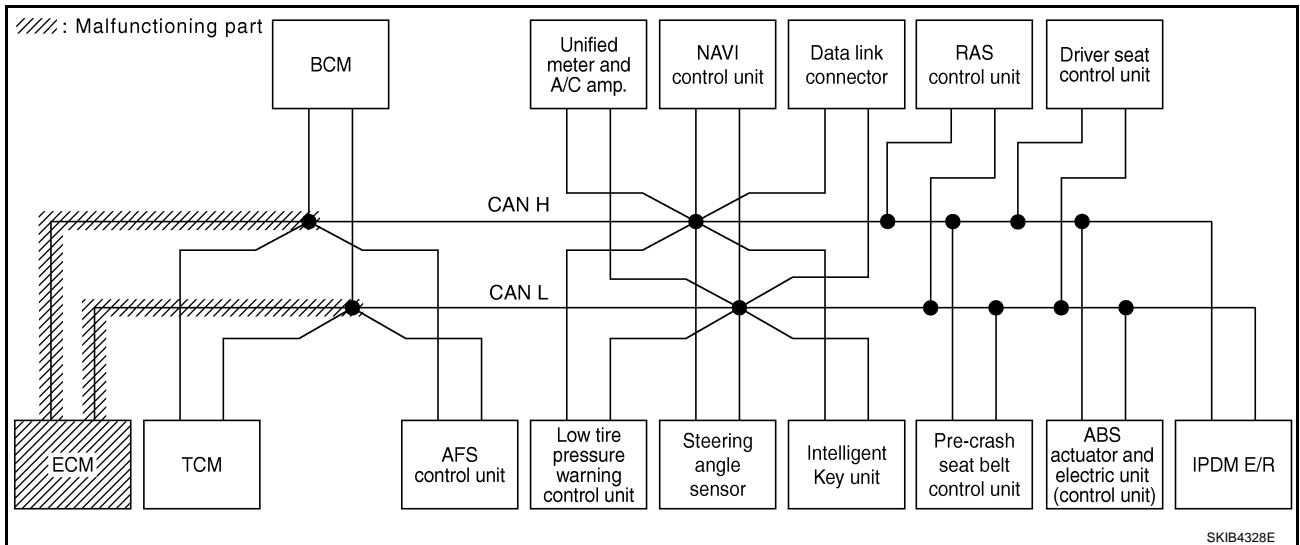
[CAN]

## Case 6

Check ECM circuit. Refer to [LAN-450, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8474E



SKIB4328E

# CAN SYSTEM (TYPE 9)

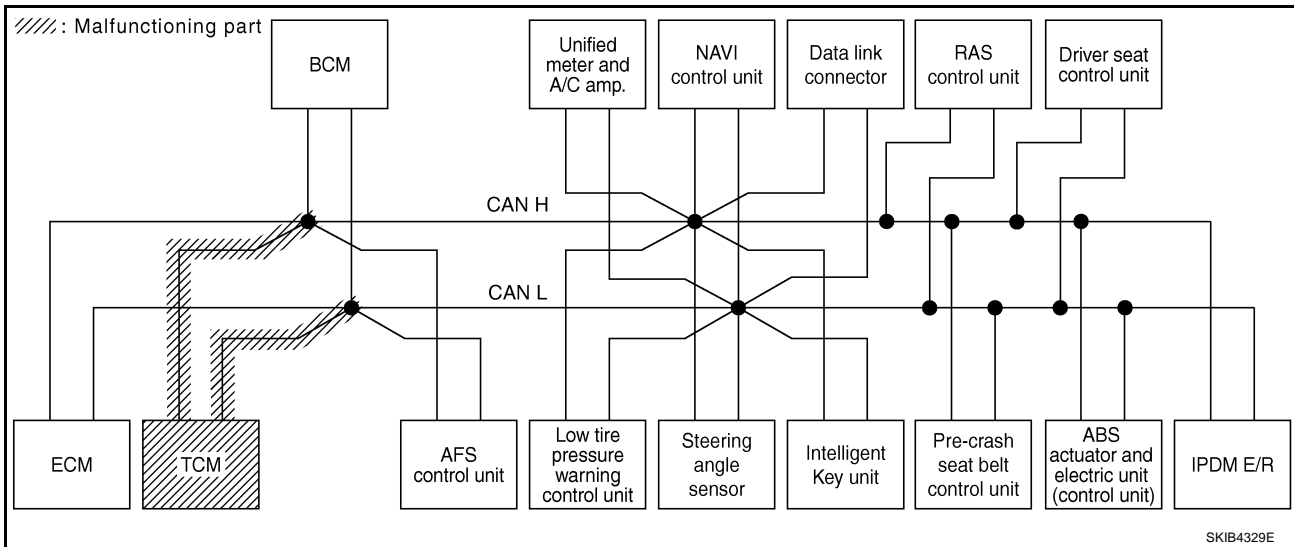
[CAN]

## Case 7

Check TCM circuit. Refer to [LAN-451, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8475E



SKIB4329E

# CAN SYSTEM (TYPE 9)

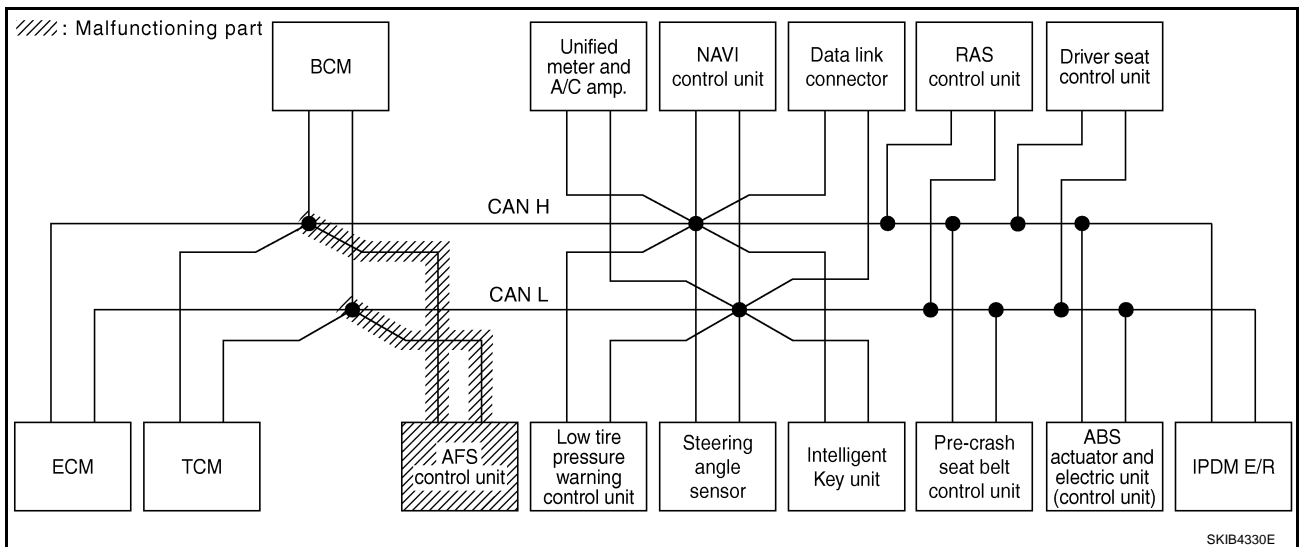
[CAN]

## Case 8

Check AFS control unit circuit. Refer to [LAN-452, "AFS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8476E



SKIB4330E

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# CAN SYSTEM (TYPE 9)

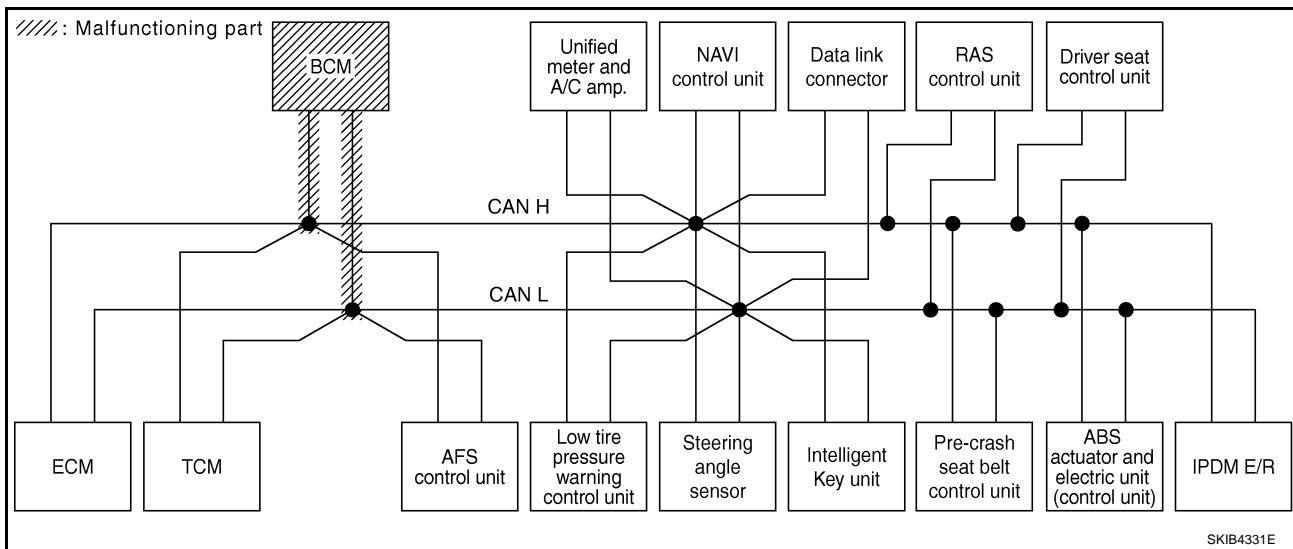
[CAN]

## Case 9

Check BCM circuit. Refer to [LAN-452, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8477E



SKIB4331E

# CAN SYSTEM (TYPE 9)

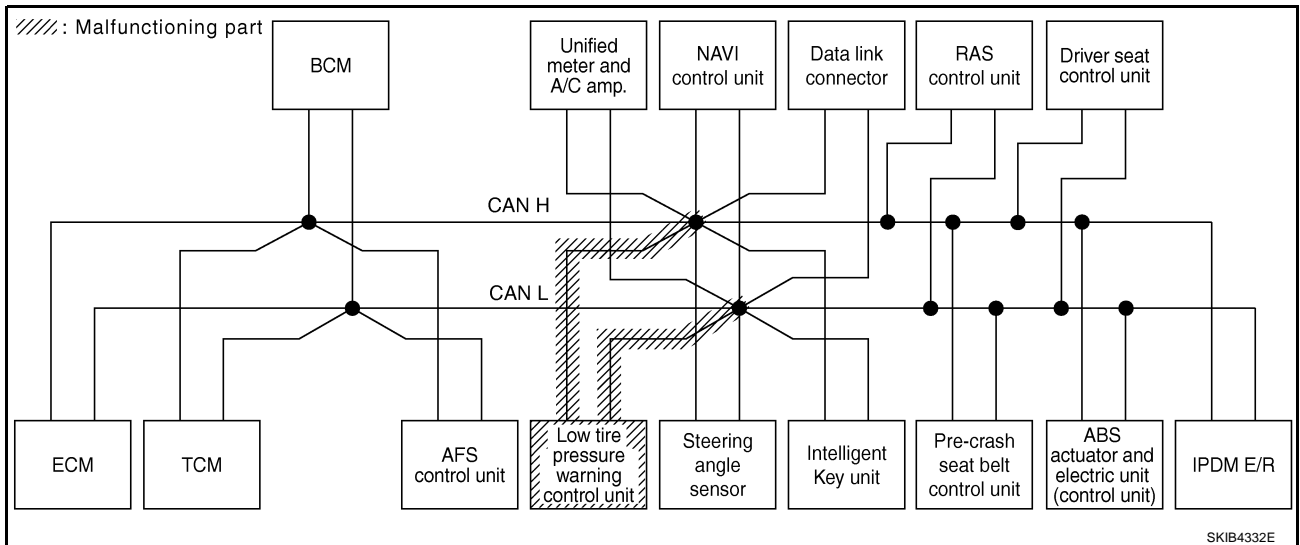
[CAN]

## Case 10

Check low tire pressure warning control unit circuit. Refer to [LAN-453, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8478E



SKIB4332E

# CAN SYSTEM (TYPE 9)

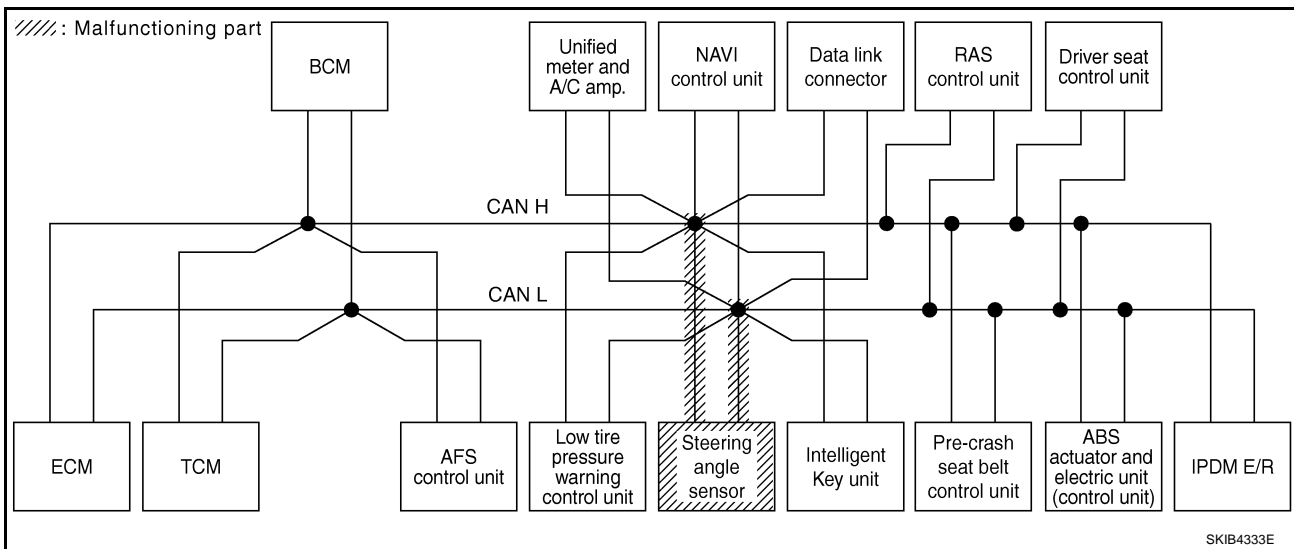
[CAN]

## Case 11

Check steering angle sensor circuit. Refer to [LAN-453, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTN														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	RAS	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8479E



SKIB4333E



# CAN SYSTEM (TYPE 9)

[CAN]

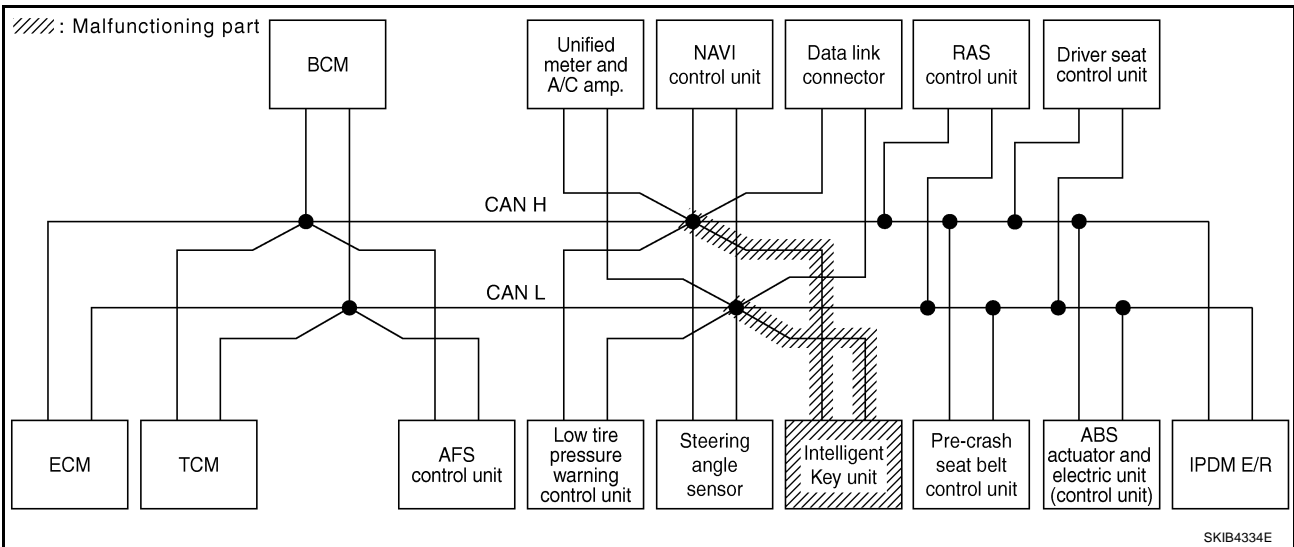
## Case 12

Check Intelligent Key unit circuit. Refer to [LAN-454, "Intelligent Key Unit Circuit Inspection"](#) .

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SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8480E



SKIB4334E

# CAN SYSTEM (TYPE 9)

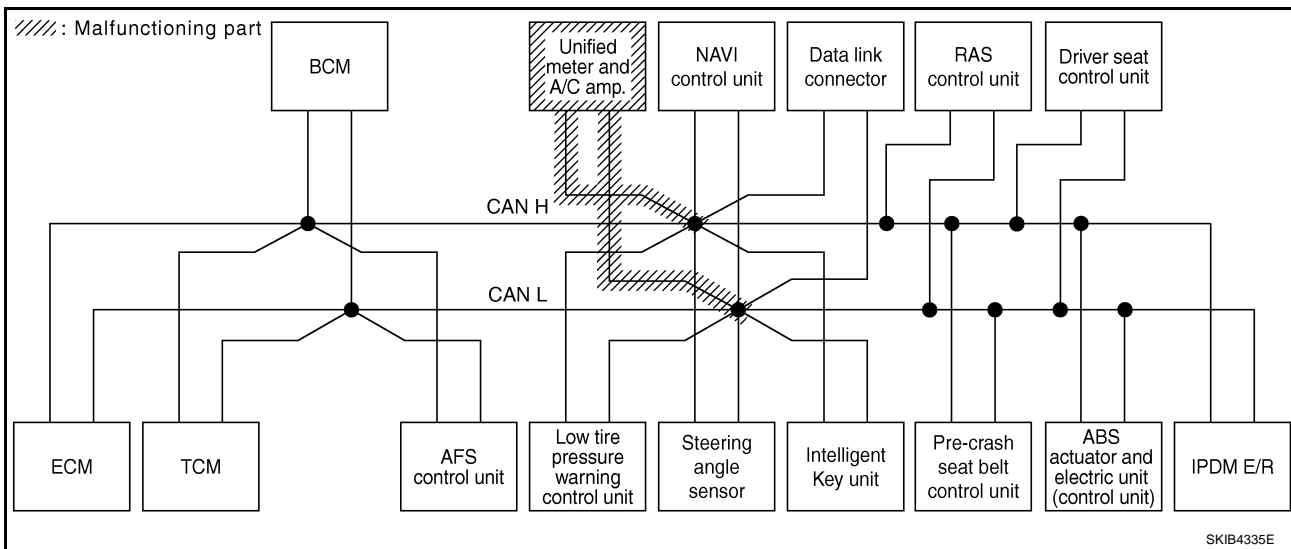
[CAN]

## Case 13

Check unified meter and A/C amp. circuit. Refer to [LAN-454, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	RAS	VDC/TCS/ABS				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB481E



SKIB4335E

# CAN SYSTEM (TYPE 9)

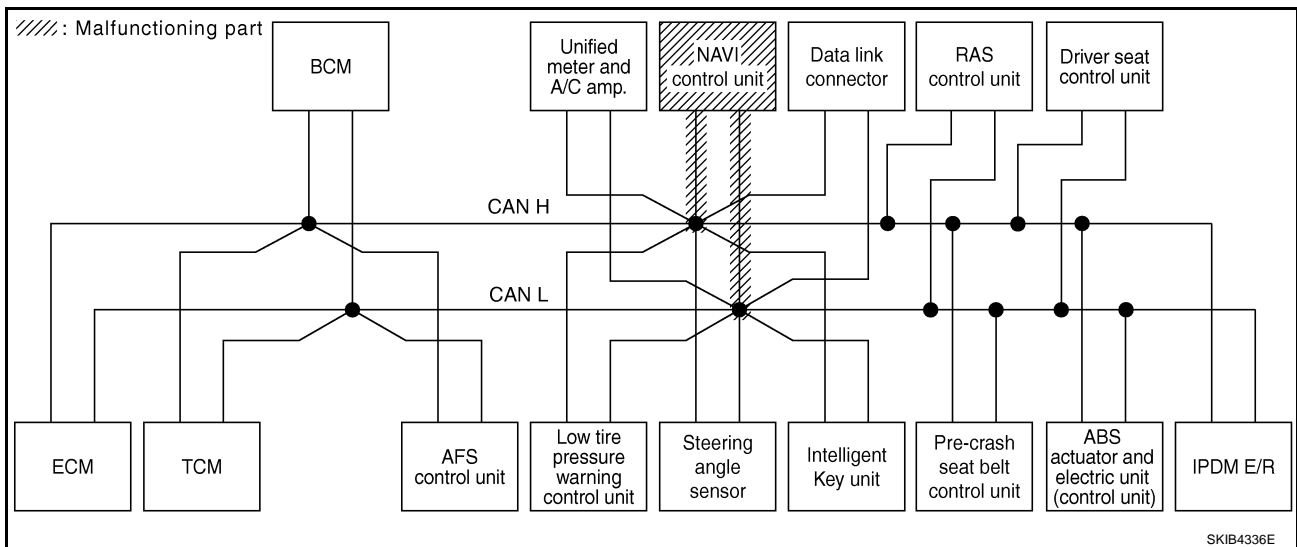
[CAN]

## Case 14

Check NAVI control unit circuit. Refer to [LAN-455, "NAVI Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8482E



SKIB4336E

# CAN SYSTEM (TYPE 9)

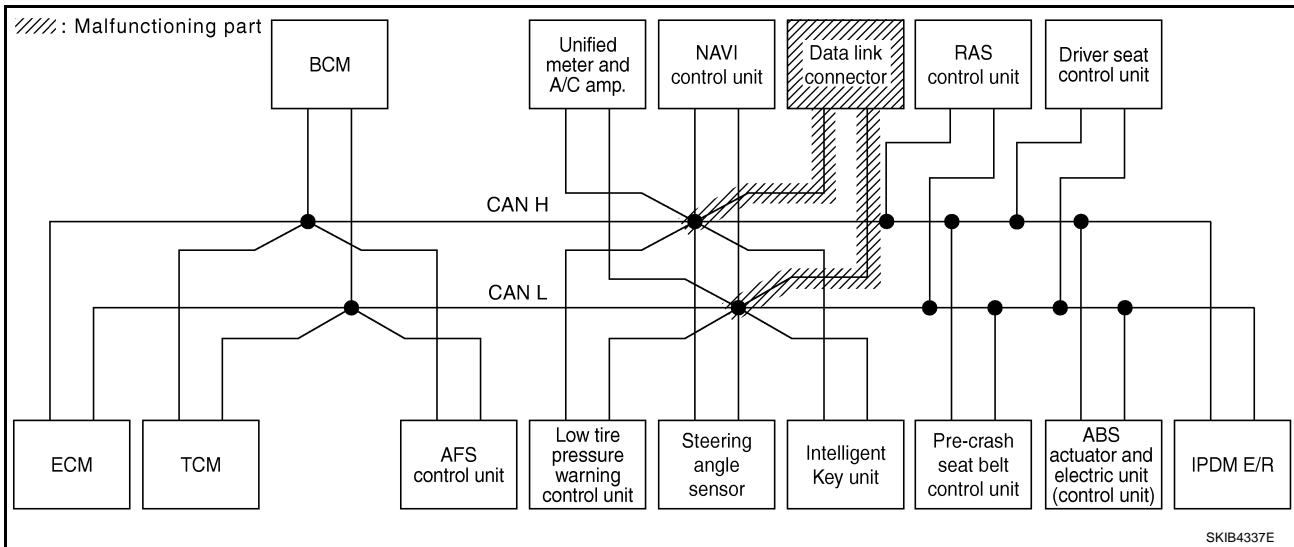
[CAN]

## Case 15

Check data link connector circuit. Refer to [LAN-455, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	RAS	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8483E



SKIB4337E

# CAN SYSTEM (TYPE 9)

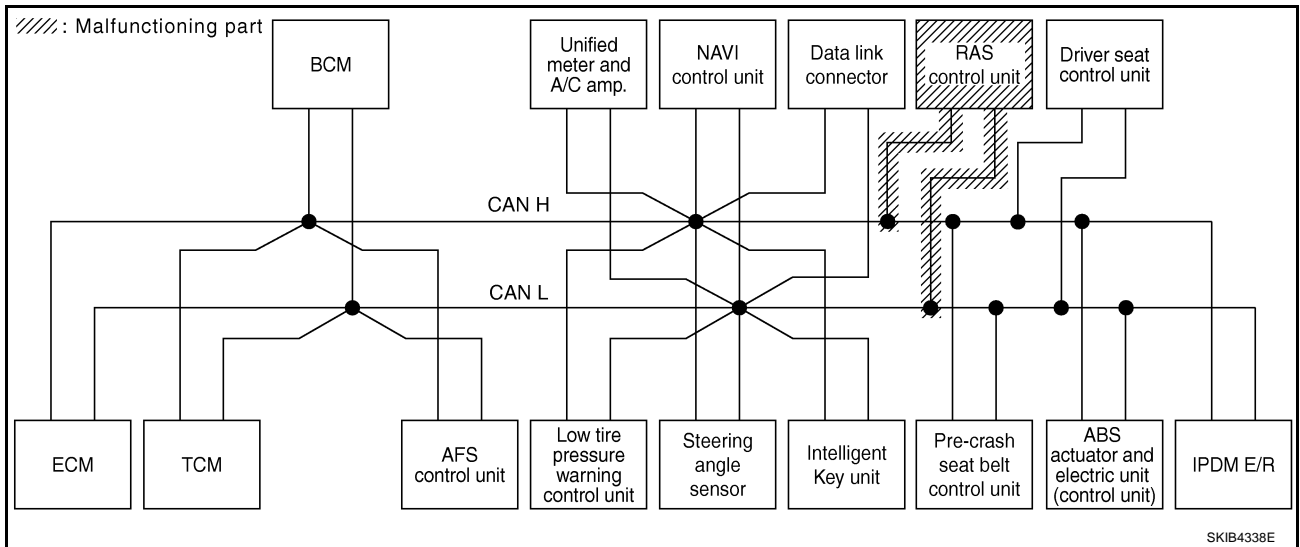
[CAN]

## Case 16

Check RAS control unit circuit. Refer to [LAN-456, "RAS Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8484E



SKIB4338E

# CAN SYSTEM (TYPE 9)

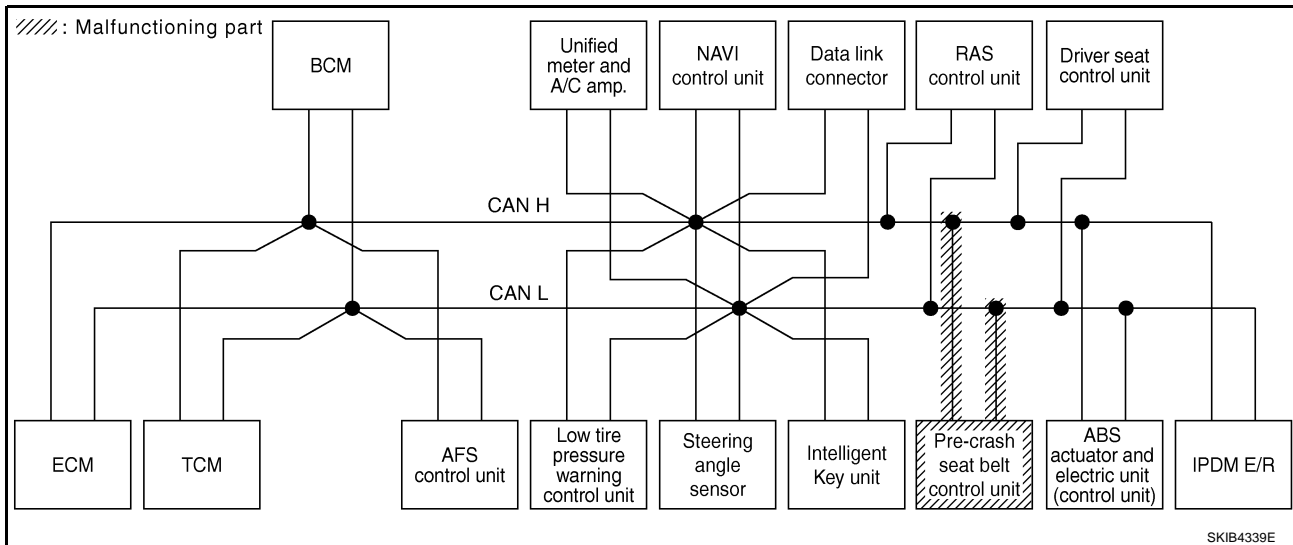
[CAN]

## Case 17

Check pre-crash seat belt control unit circuit. Refer to [LAN-456, "Pre-Crash Seat Belt Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8485E



SKIB4339E

# CAN SYSTEM (TYPE 9)

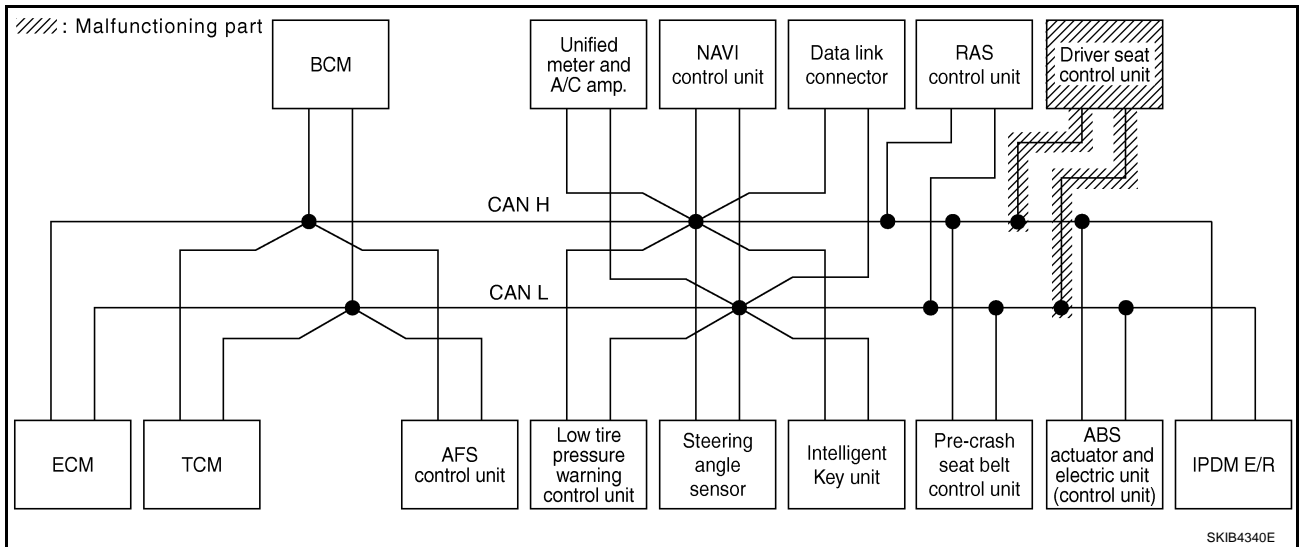
[CAN]

## Case 18

Check driver seat control unit circuit. Refer to [LAN-457, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8486E



SKIB4340E

# CAN SYSTEM (TYPE 9)

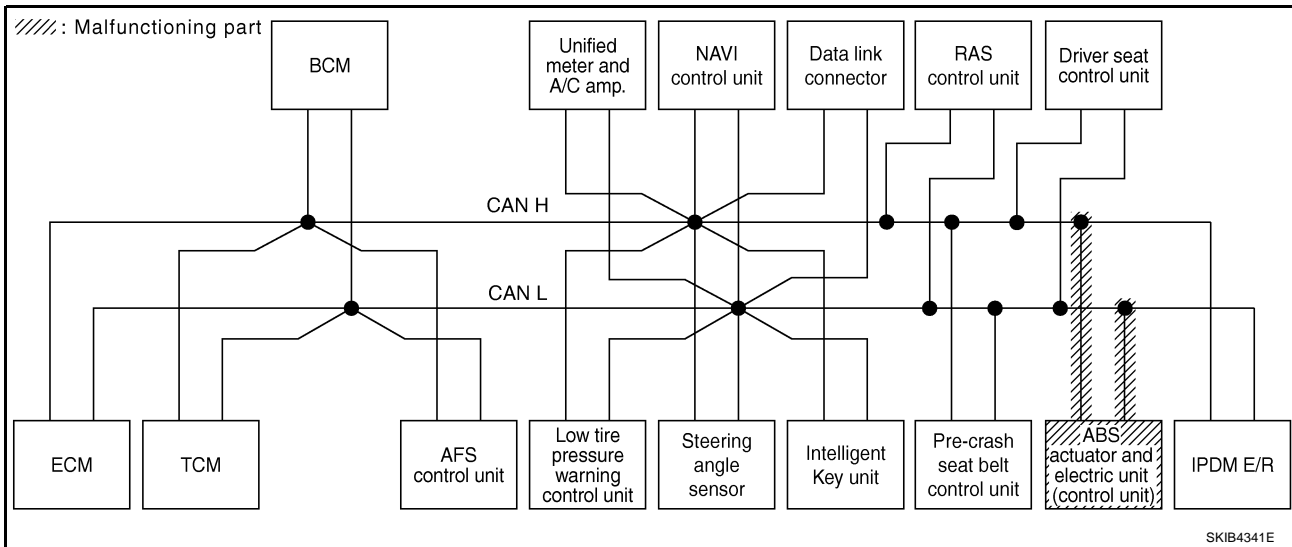
[CAN]

## Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-457, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS						
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	✓	✓	✓	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8487E



SKIB4341E



# CAN SYSTEM (TYPE 9)

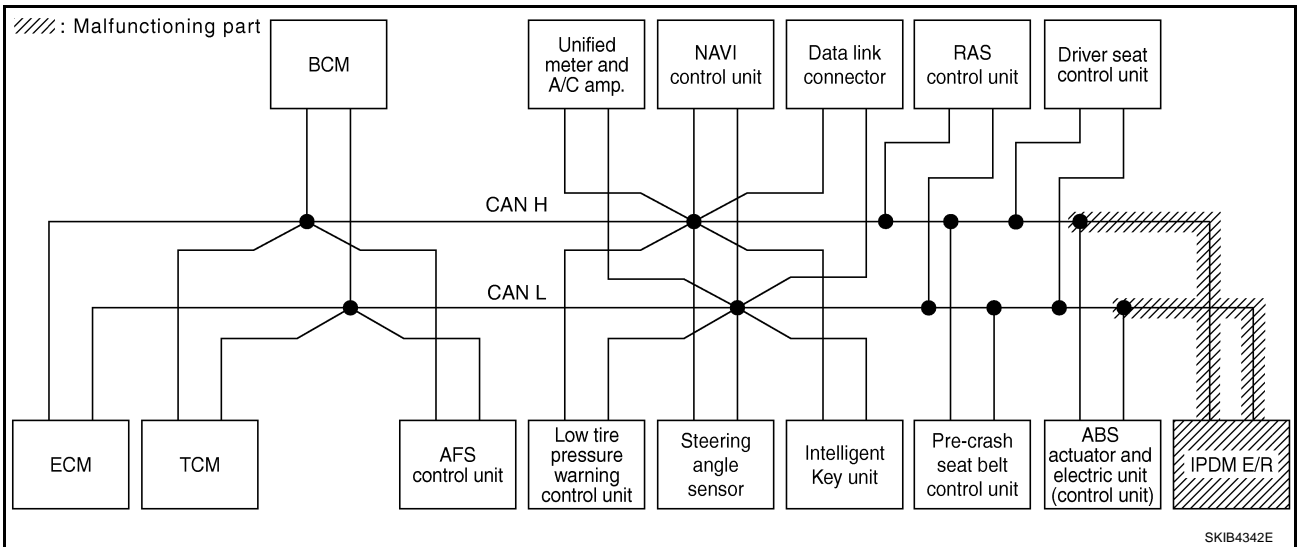
[CAN]

## Case 20

Check IPDM E/R circuit. Refer to [LAN-458. "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8488E



SKIB4342E

# CAN SYSTEM (TYPE 9)

[CAN]

## Case 21

Check CAN communication circuit. Refer to [LAN-459, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS	
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	UNKW	—	—	—	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8489E

## Case 22

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-466, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS				VDC/TCS /ABS	
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8490E

## Case 23

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-466, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—

PKIB8491E

## Inspection Between TCM and Data Link Connector Circuit

NKS0043C

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

**OK or NG**

OK >> GO TO 2.

NG >> Repair terminal or connector.

### 2. CHECK HARNESS FOR OPEN CIRCUIT

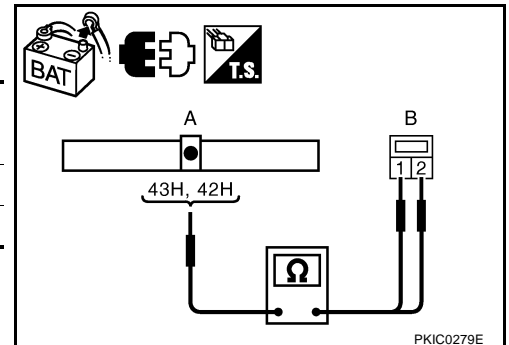
1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

**OK or NG**

OK >> GO TO 3.

NG >> Repair harness.



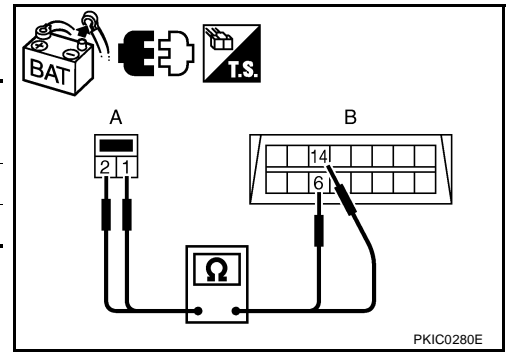
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and RAS Control Unit Circuit

NKS0043D

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

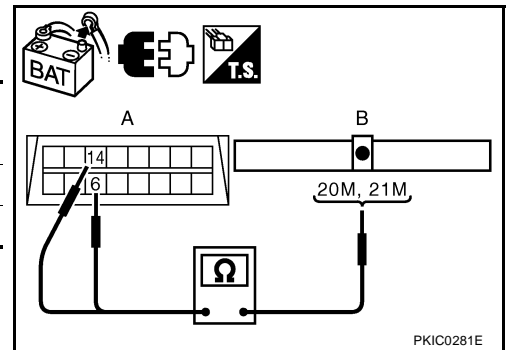
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



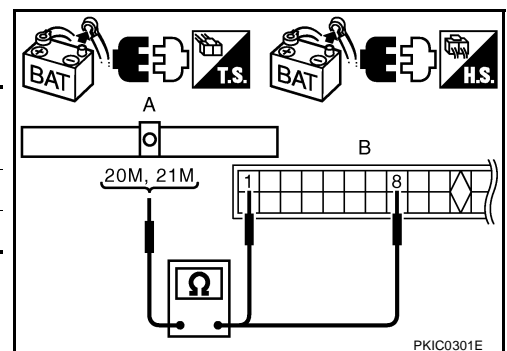
#### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect RAS control unit connector.
2. Check continuity between harness connector (A) and RAS control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B127	1	Yes
	21M		8	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



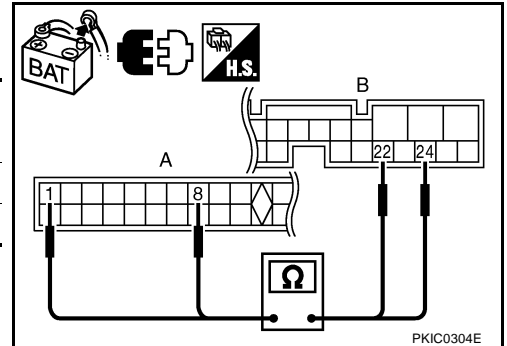
**Inspection Between RAS Control Unit and Pre-Crash Seat Belt Control Unit Circuit**

NKS0043E

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - RAS control unit connector
  - Pre-crash seat belt control unit connector
4. Check continuity between RAS control unit harness connector (A) and pre-crash seat belt control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B127	1	B142	24	Yes
	8		22	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.

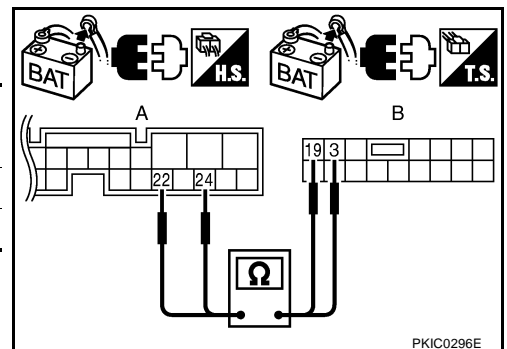
**Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit**

NKS0043F

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - Pre-crash seat belt control unit connector
  - harness connector B15
4. Check continuity between pre-crash seat belt control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B142	24	B15	3	Yes
	22		19	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.

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## Inspection Between Driver seat control unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS0043G

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

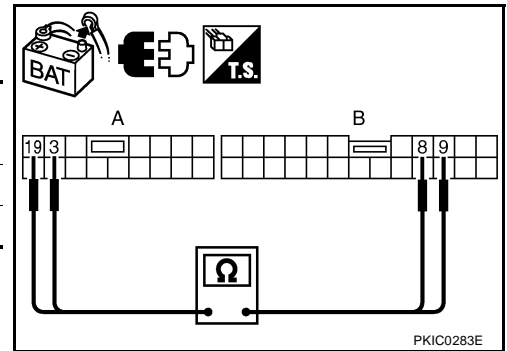
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

- OK >> GO TO 3.  
 NG >> Replace harness.



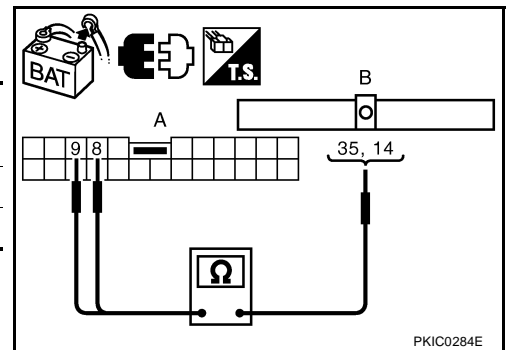
### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).  
 NG >> Repair harness.



## ECM Circuit Inspection

NKS0043H

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

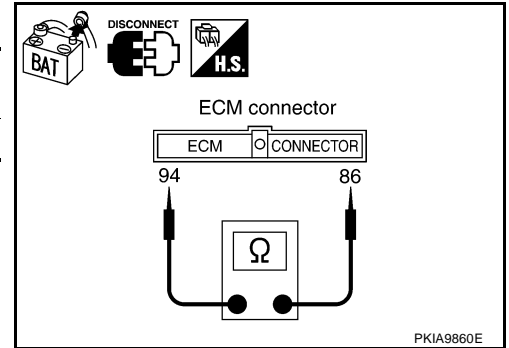
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

**OK or NG**

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.



NKS0043I

## TCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

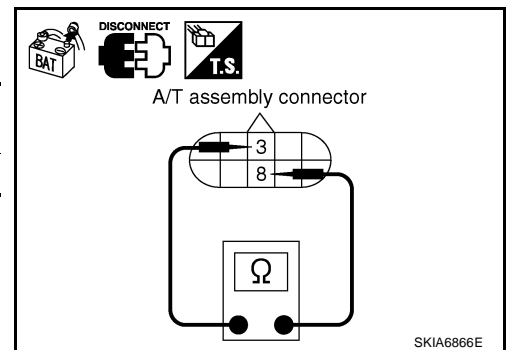
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.
- NG >> Repair harness between A/T assembly and AFS control unit.



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## AFS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

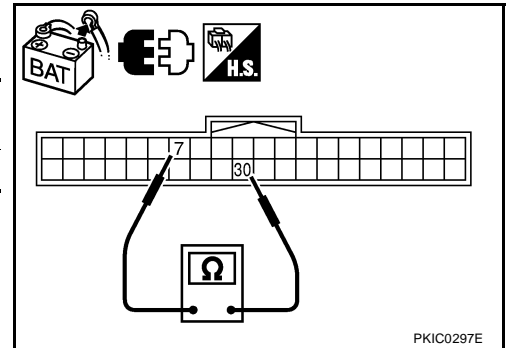
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
F110	30	7	54 – 66 Ω

**OK or NG**

- OK >> Replace AFS control unit.
- NG >> Repair harness between AFS control unit and BCM.



PKIC0297E

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

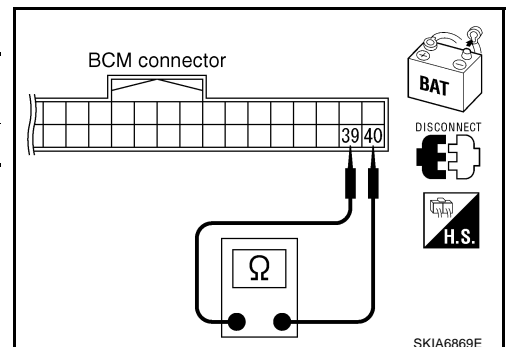
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

**OK or NG**

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and harness connector M61.



SKIA6869E



## Low Tire Pressure Warning Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

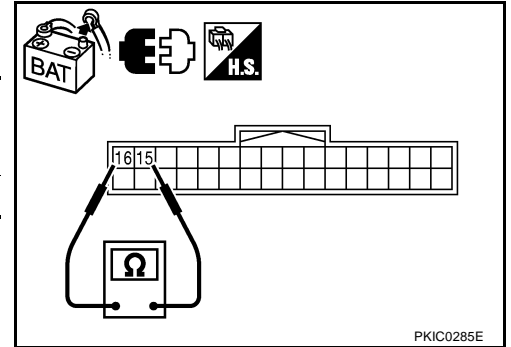
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

**OK or NG**

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

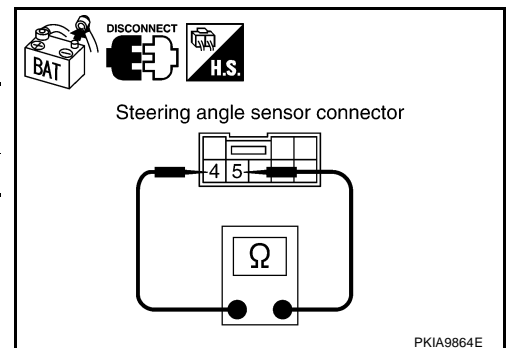
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	4	5	54 – 66 Ω

**OK or NG**

- OK >> Replace steering angle sensor.
- NG >> Repair harness between steering angle sensor and data link connector.



## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

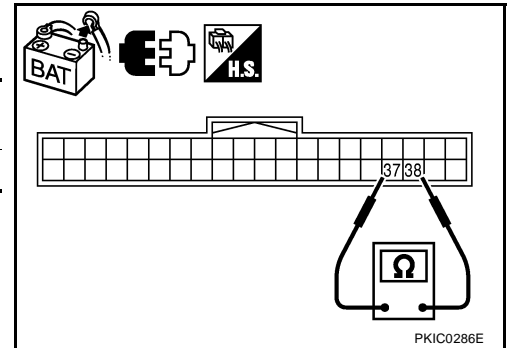
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
M32	38	37	54 – 66 Ω

OK or NG

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

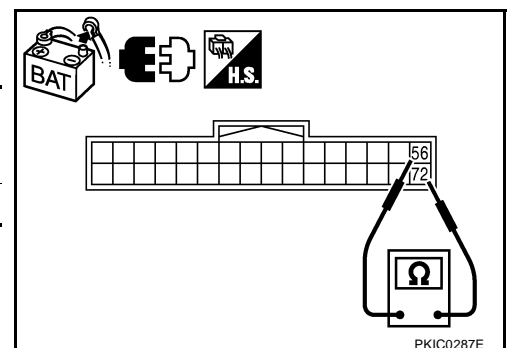
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
M65	56	72	54 – 66 Ω

OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.



## NAVI Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - NAVI control unit connector
  - Harness connector M216
  - Harness connector M53

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

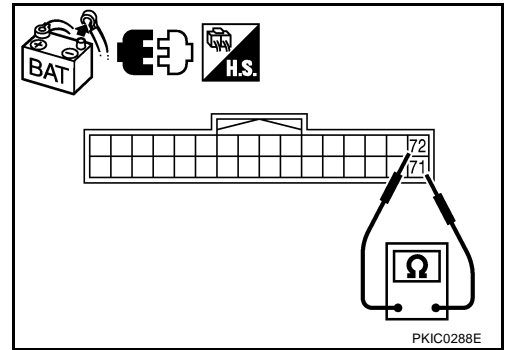
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check resistance between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

OK or NG

- OK >> Replace NAVI control unit.
- NG >> Repair harness between NAVI control unit and data link connector.



## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

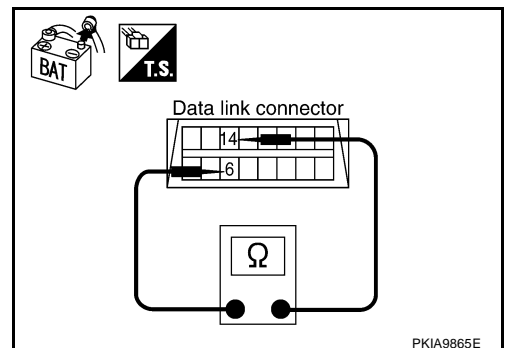
### 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



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## RAS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of RAS control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

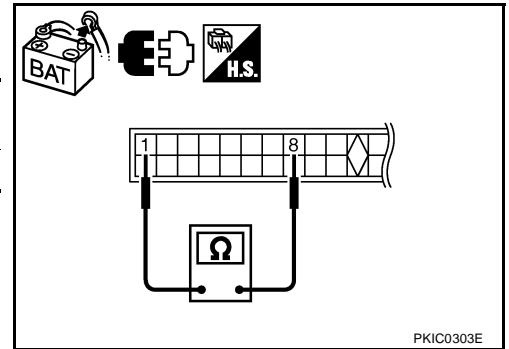
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect RAS control unit connector.
2. Check resistance between RAS control unit harness connector terminals.

RAS control unit connector	Terminal		Resistance (Approx.)
B127	1	8	54 – 66 Ω

OK or NG

- OK >> Replace RAS control unit.  
 NG >> Replace harness.



## Pre-Crash Seat Belt Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of pre-crash seat belt control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

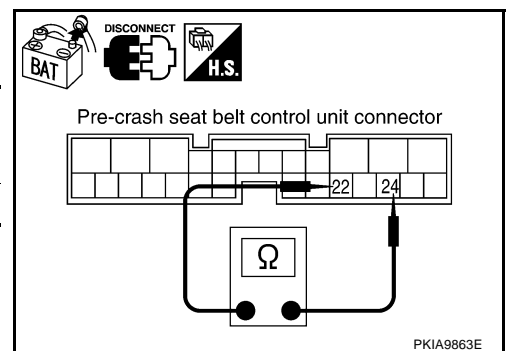
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check resistance between pre-crash seat belt control unit harness connector terminals.

Pre-crash seat belt control unit connector	Terminal		Resistance (Approx.)
B142	24	22	54 – 66 Ω

OK or NG

- OK >> Replace pre-crash seat belt control unit.  
 NG >> Replace harness.



## Driver Seat Control Unit Circuit Inspection

NKS0043T

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

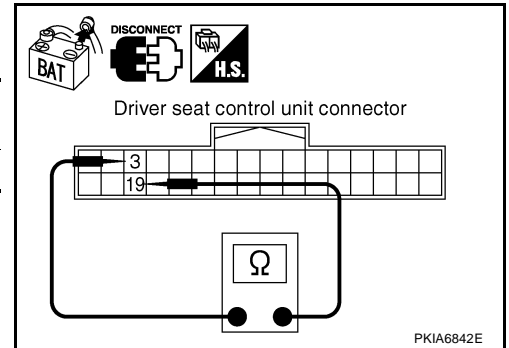
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Replace harness.



## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

NKS0043U

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

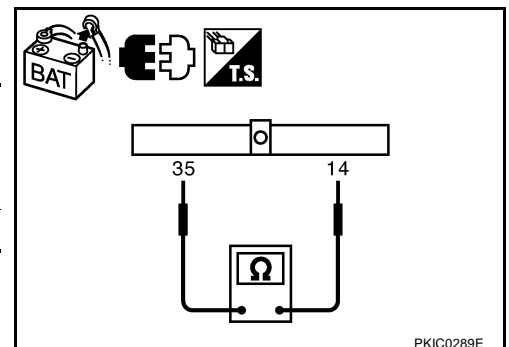
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



**IPDM E/R Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

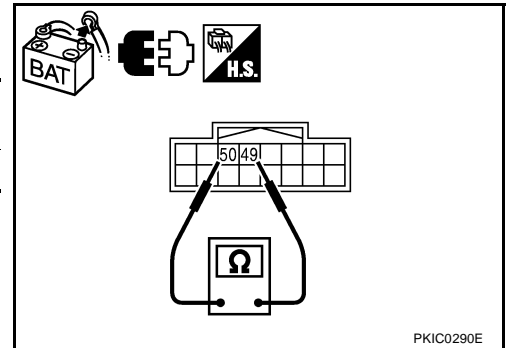
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

**OK or NG**

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and harness connector E105.



PKIC0290E

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - RAS control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
    - Between ECM and A/T assembly
    - Between ECM and AFS control unit
    - Between ECM and NAVI control unit
    - Between ECM and driver seat control unit
    - Between ECM and IPDM E/R

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

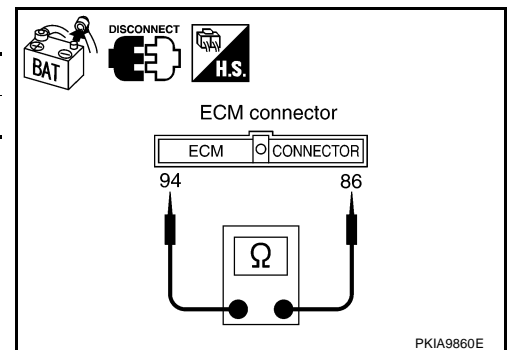
### 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

OK or NG

- OK >> GO TO 3.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



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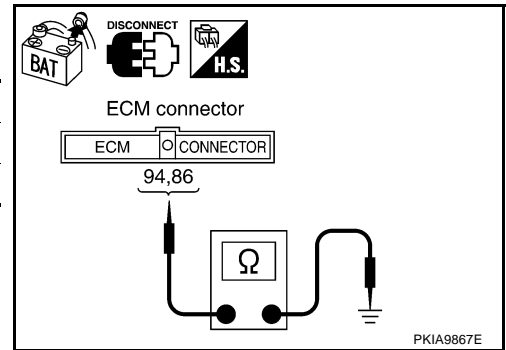
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		
	86	No	

**OK or NG**

- OK >> GO TO 4.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



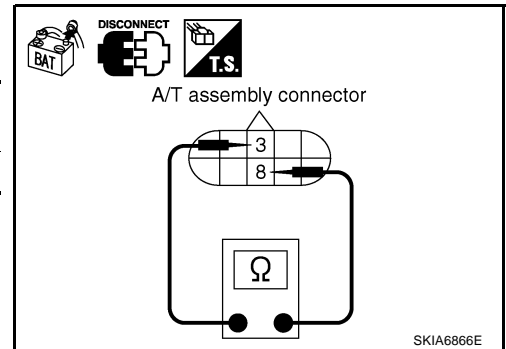
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.
- NG >> Repair harness between A/T assembly and harness connector F102.



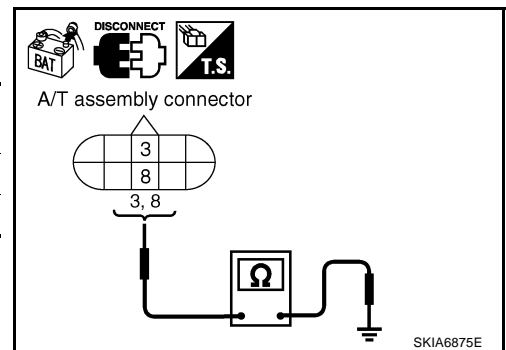
## 5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

**OK or NG**

- OK >> GO TO 6.
- NG >> Repair harness between A/T assembly and harness connector F102.





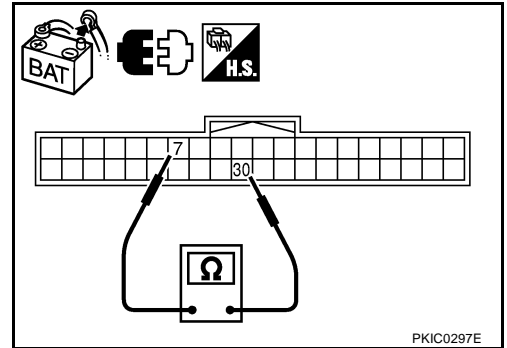
## 6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Continuity
F110	30	7	No

**OK or NG**

- OK >> GO TO 7.  
 NG >> Repair harness between AFS control unit and harness connector F102.



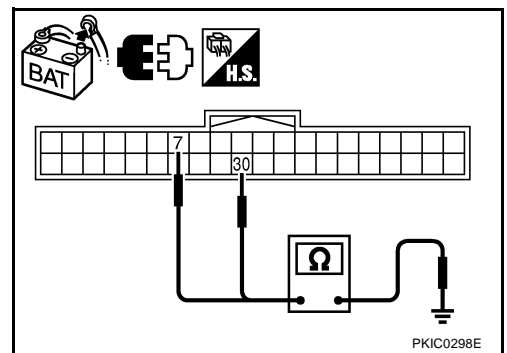
## 7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		
	7		No

**OK or NG**

- OK >> GO TO 8.  
 NG >> Replace harness between AFS control unit and harness connector F102.



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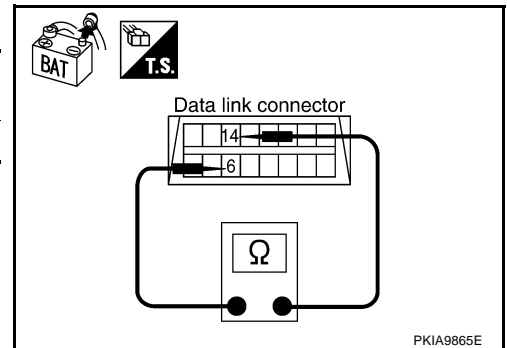
**8. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

Data link connector	Terminal		Continuity
	6	14	
M60			No

**OK or NG**

- OK >> GO TO 9.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



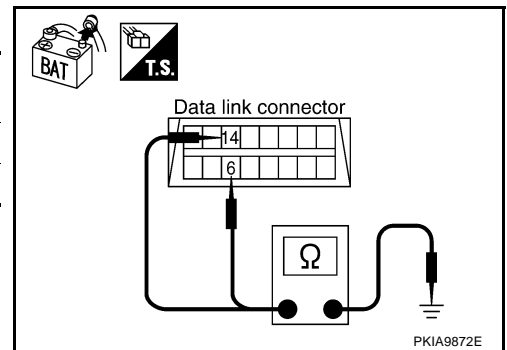
**9. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between data link connector terminals and ground.

Data link connector	Terminal	Ground	Continuity
M60	6		No
	14		No

**OK or NG**

- OK >> GO TO 10.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



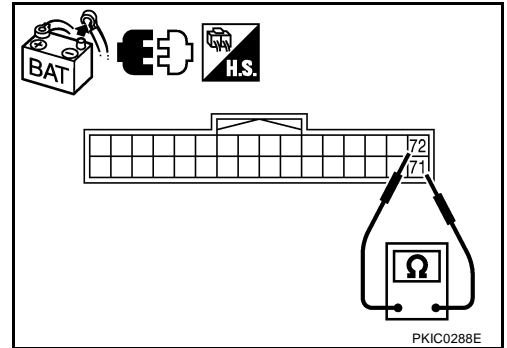
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check continuity between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Continuity
M210	71	72	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



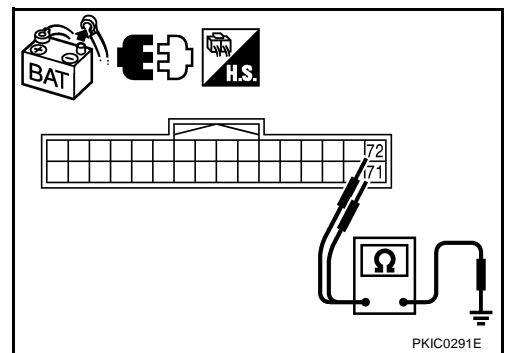
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between NAVI control unit harness connector terminals and ground.

NAVI control unit connector	Terminal	Ground	Continuity
M210	71	Ground	No
	72		No

**OK or NG**

- OK >> GO TO 12.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



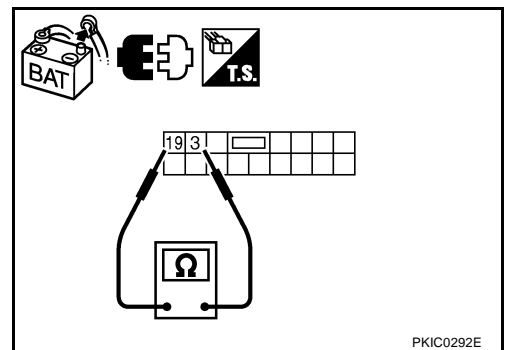
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - RAS control unit connector
  - Pre-crash seat belt control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Replace harness.



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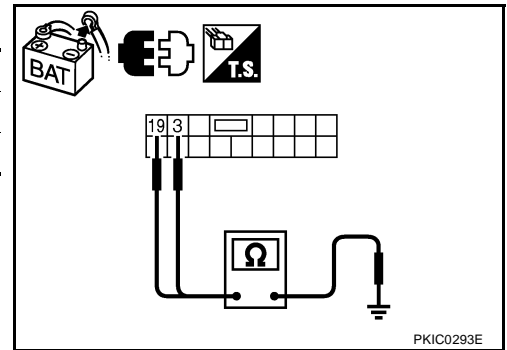
### 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19	No	

OK or NG

- OK >> GO TO 14.
- NG >> Replace harness.



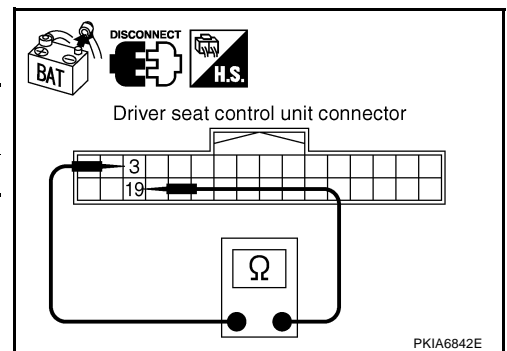
### 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal	Continuity
B204	3	No
	19	No

OK or NG

- OK >> GO TO 15.
- NG >> Repair harness between driver seat control unit and harness connector B202.



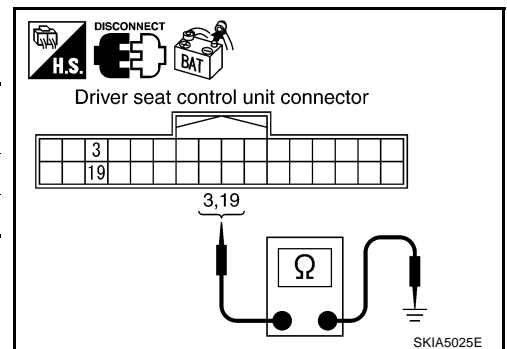
### 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

OK or NG

- OK >> GO TO 16.
- NG >> Repair harness between driver seat control unit and harness connector B202.



## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

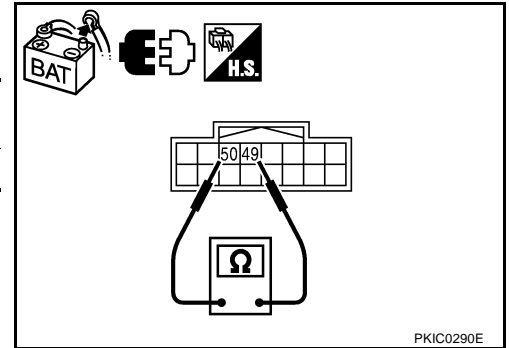
IPDM E/R connector	Terminal		Continuity
E9	49	50	No

### OK or NG

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0290E

## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

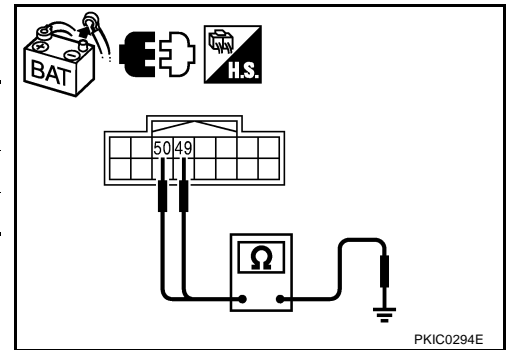
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		No
	50	No	

### OK or NG

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0294E

## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

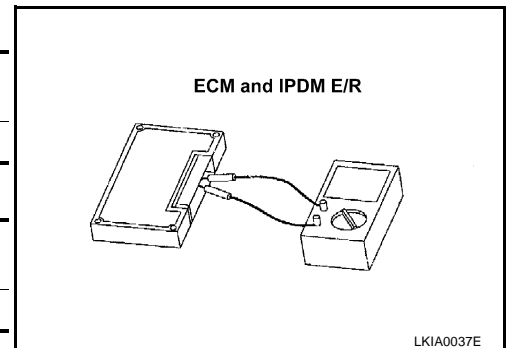
3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω

### OK or NG

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



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## 19. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - RAS control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

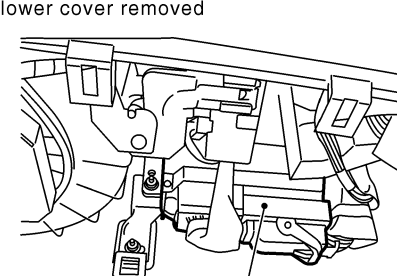
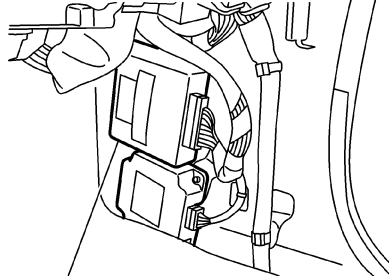
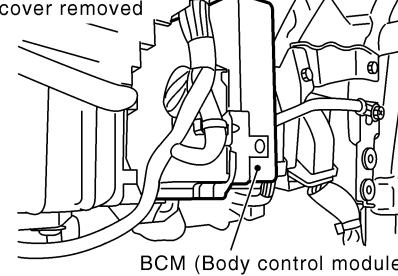
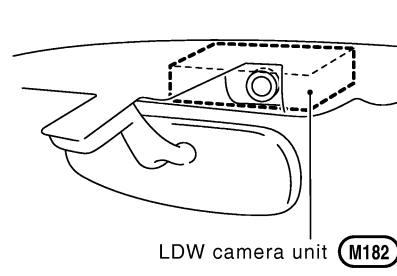
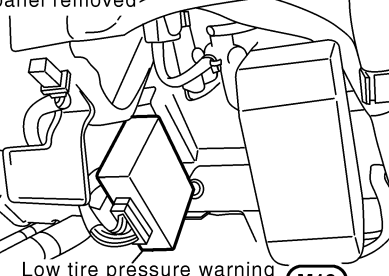
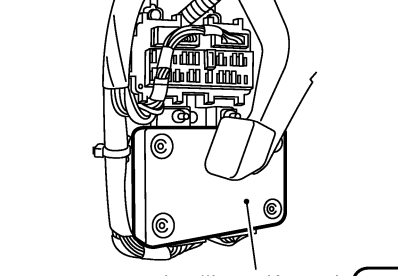
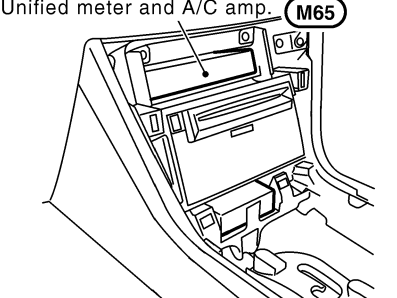
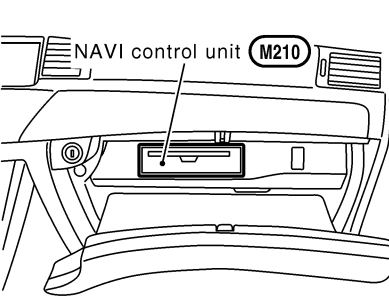
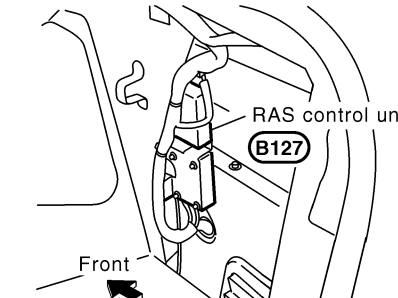
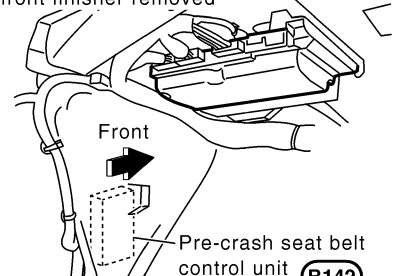
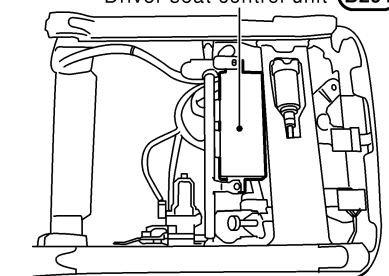
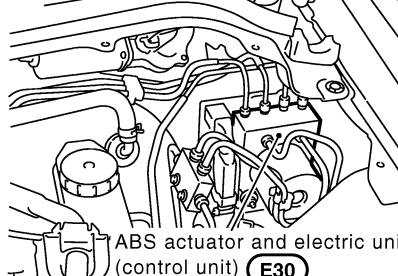
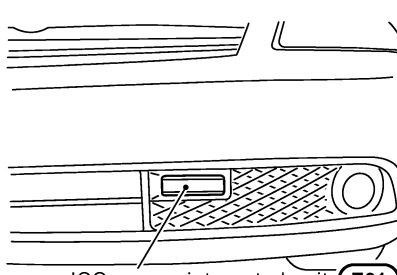
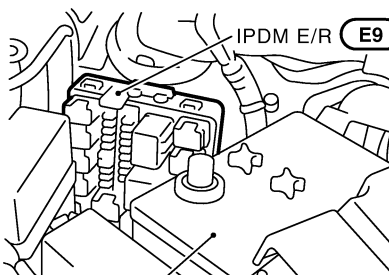
NKS0043X

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)

## CAN SYSTEM (TYPE 10)

### Component Parts and Harness Connector Location

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>LDW camera unit (M182)</p>  <p>LDW camera unit (M182)</p>	<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>
<p>View with cluster lid C removed Unified meter and A/C amp. (M65)</p>  <p>Unified meter and A/C amp. (M65)</p>	<p>Inside of glove box</p>  <p>NAVI control unit (M210)</p>	<p>View with trunk side RH finisher removed</p>  <p>RAS control unit (B127)</p> <p>Front</p>
<p>View with trunk side LH finisher and front finisher removed</p>  <p>Pre-crash seat belt control unit (B142)</p> <p>Front</p>	<p>Under driver's seat Driver seat control unit (B204)</p>  <p>Driver seat control unit (B204)</p>	<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>
<p>Bumper LH</p>  <p>ICC sensor integrated unit (E61)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>	

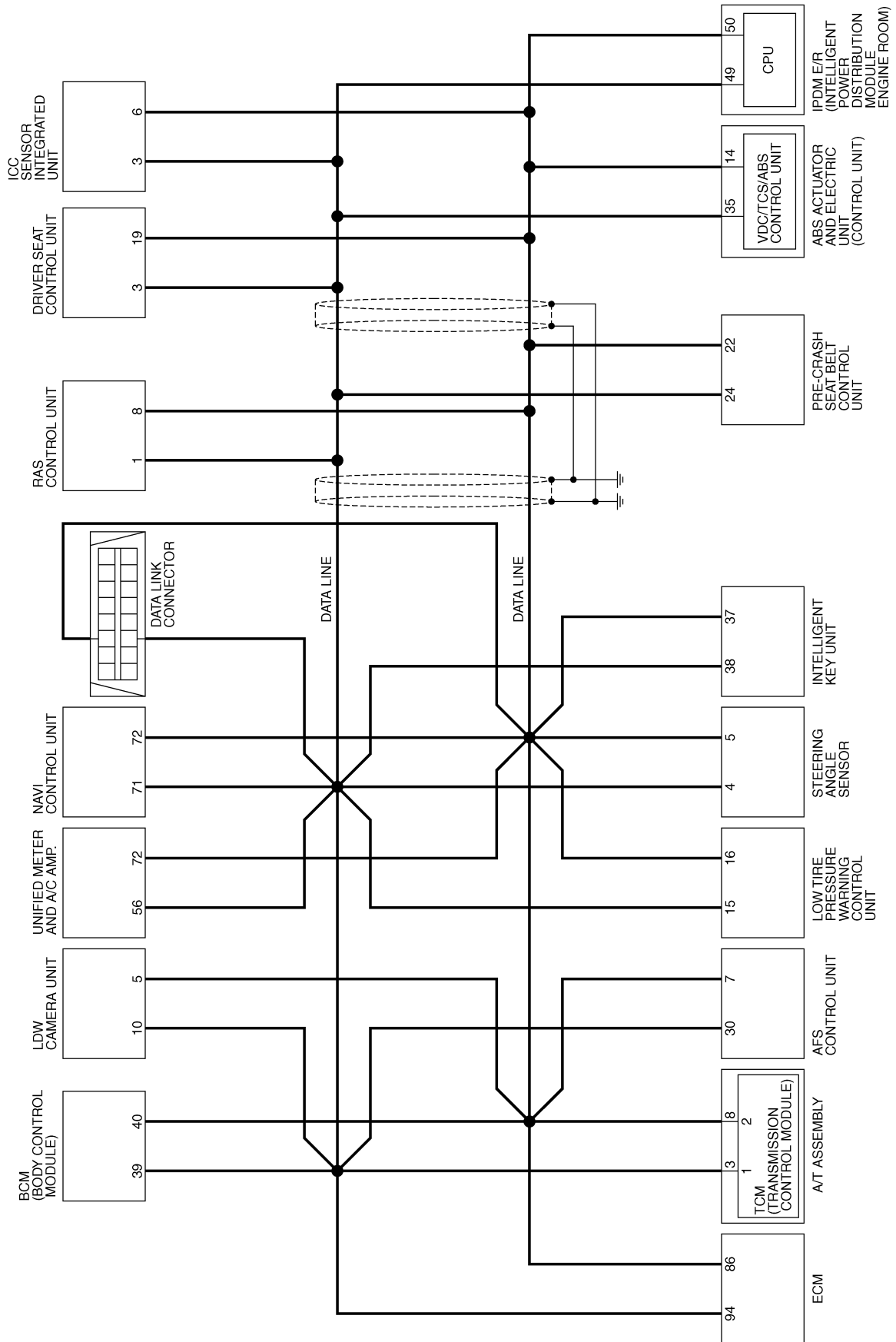
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# CAN SYSTEM (TYPE 10)

[CAN]

## Schematic

NKS0043Z



TKW73290E



# CAN SYSTEM (TYPE 10)

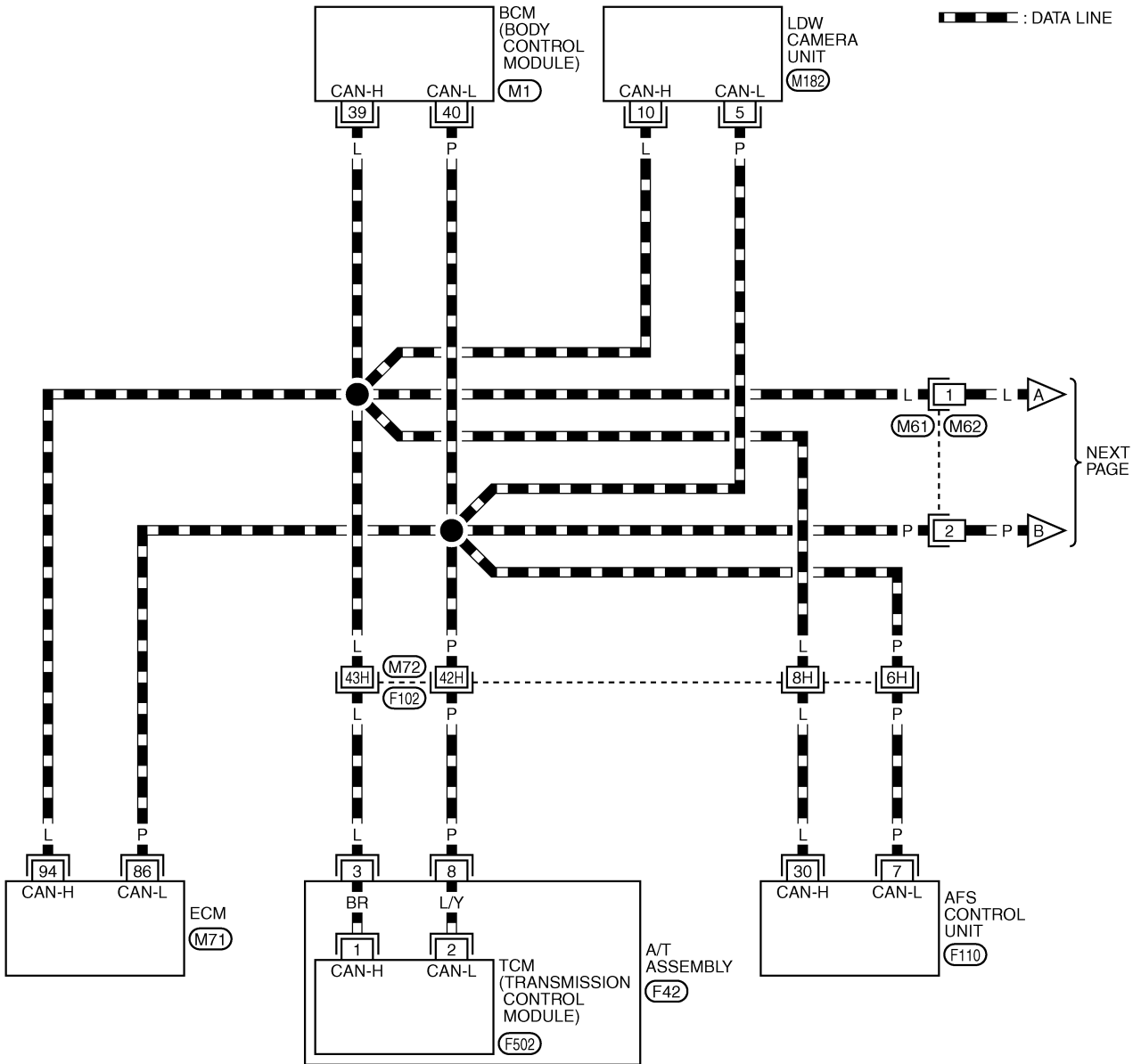
[CAN]

NKS00440

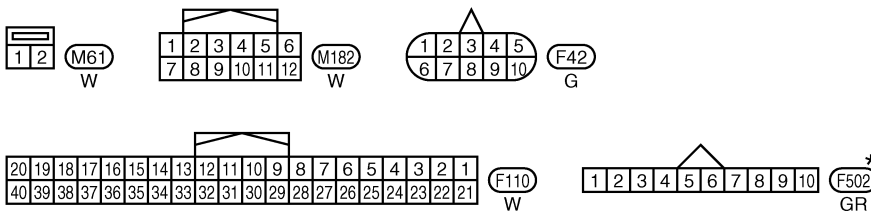
## Wiring Diagram — CAN —

LAN-CAN-35

— — — — — : DATA LINE



A  
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REFER TO THE FOLLOWING.

**F102** -SUPER MULTIPLE JUNCTION (SMJ)  
**(M1)**, **(M71)** -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

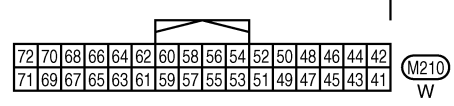
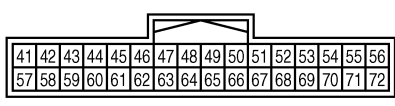
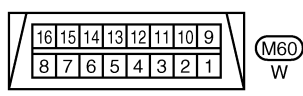
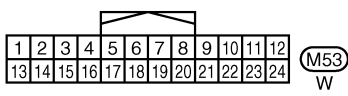
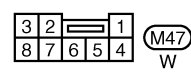
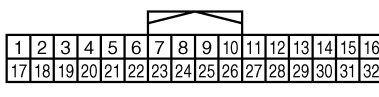
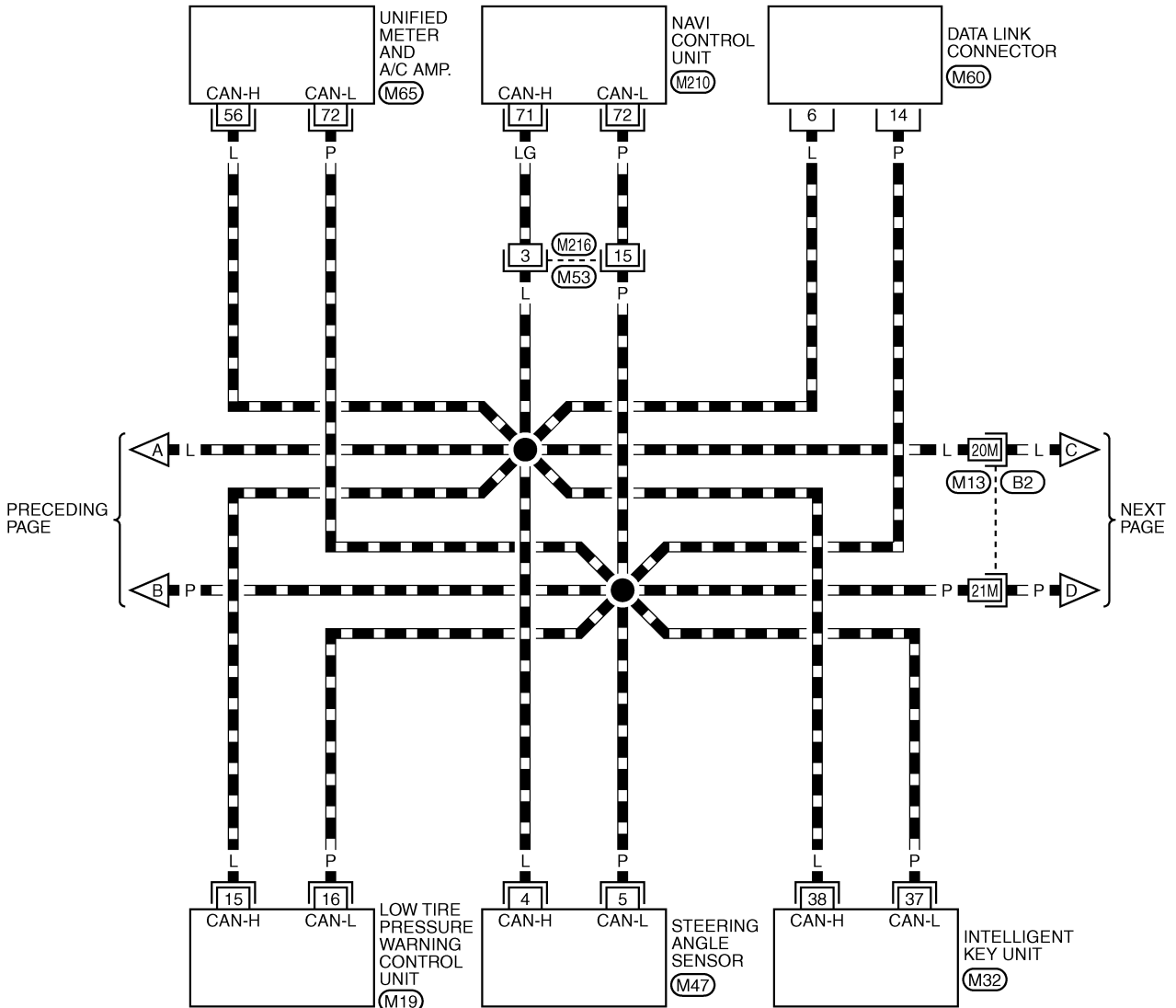
TKWT3291E

# CAN SYSTEM (TYPE 10)

[CAN]

## LAN-CAN-36

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

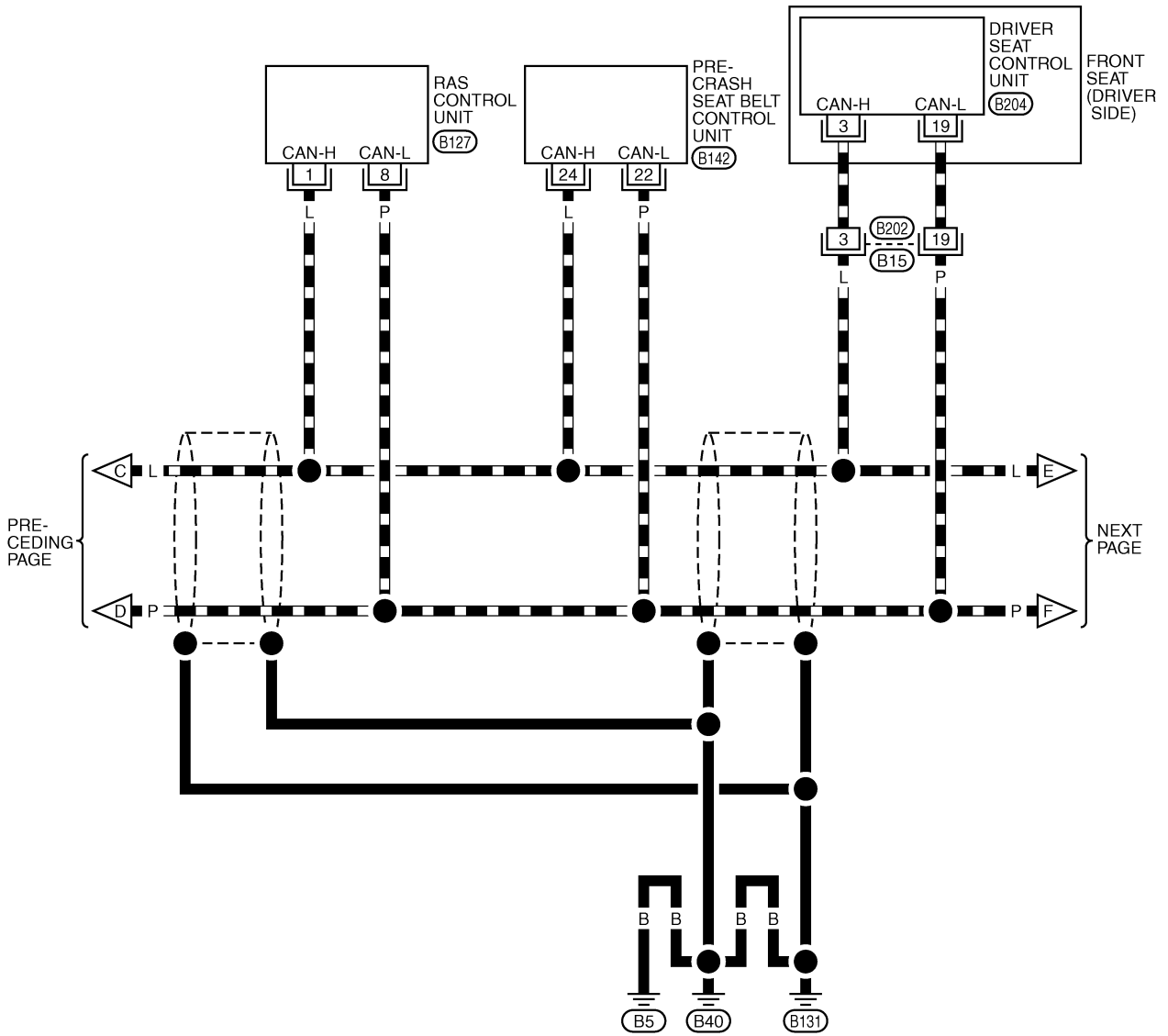
TKWT3292E

# CAN SYSTEM (TYPE 10)

[CAN]

## LAN-CAN-37

— : DATA LINE



19	3	1		17	40	
61	60	59	32	48	21	33

(B15)  
W

1	2	3	4	5	6	7	8	9	10	21	22	23	24	25	26	27	28	37	38	39	40
11	12	13	14	15	16	17	18	19	20	29	30	31	32	33	34	35	36				

(B127)  
W



6	5	4	12	11	10	9	8	7	3	2	1		
26	25	24	23	22	21	20	19	18	17	16	15	14	13

(B142)  
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

(B204)  
W



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

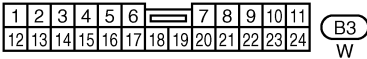
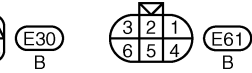
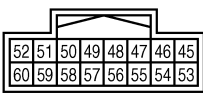
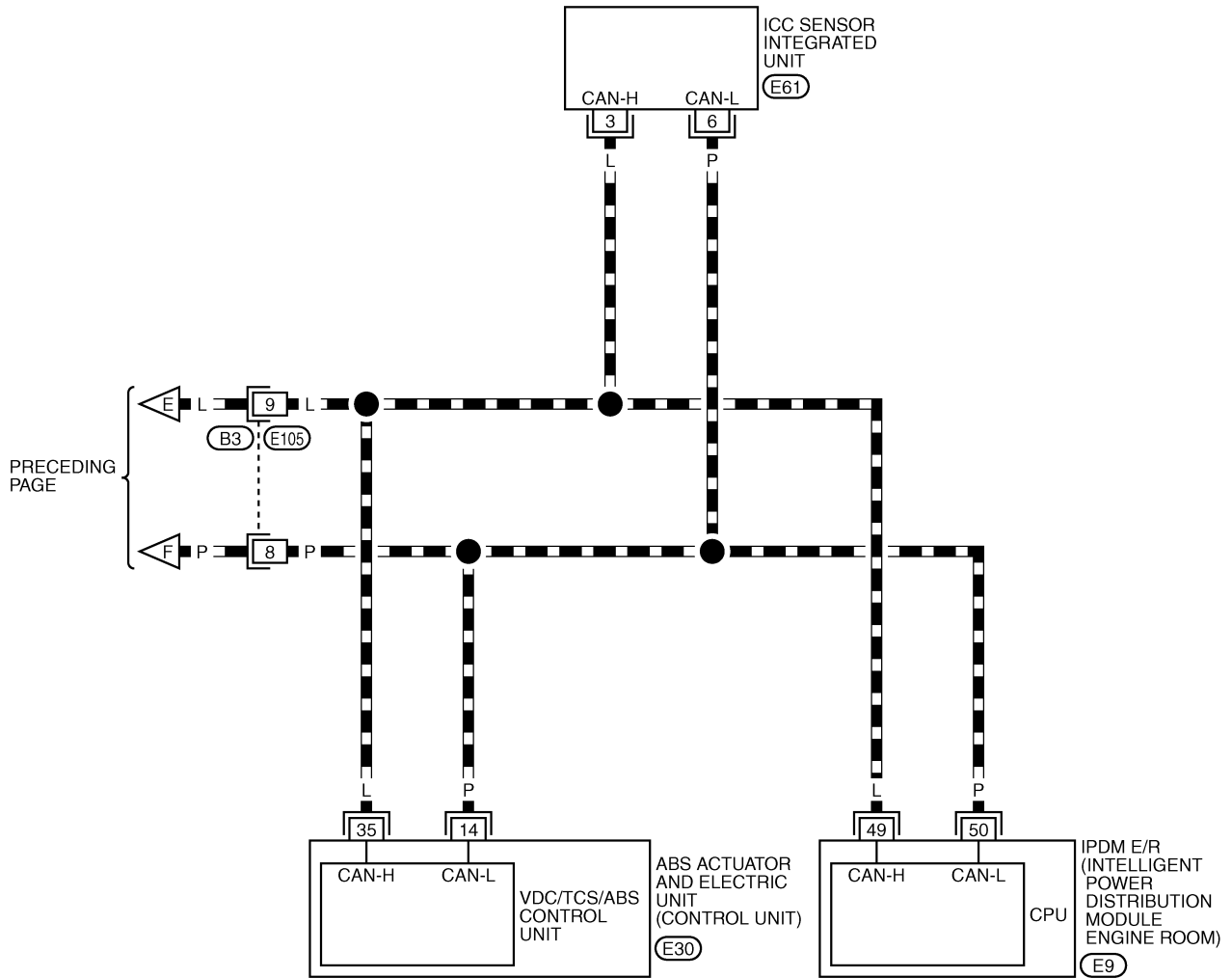
TKWT3293E

# CAN SYSTEM (TYPE 10)

[CAN]

## LAN-CAN-38

▬ : DATA LINE



TKWT3294E

# CAN SYSTEM (TYPE 10)

[CAN]

NKS00441

## Check Sheet

### NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Check sheet table

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	RAS	VDC/TCS/ABS	ICC/e4WD	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8492E

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# CAN SYSTEM (TYPE 10)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
LDW  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
RAS/HICAS  
SELF-DIAG RESULTS

Attach copy of  
PRECRASH SEATBELT  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
ICC  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9565E

# CAN SYSTEM (TYPE 10)

[CAN]

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M

Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
LDW  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
RAS/HICAS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
PRECRASH SEATBELT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

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ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ICC  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9566E

# CAN SYSTEM (TYPE 10)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

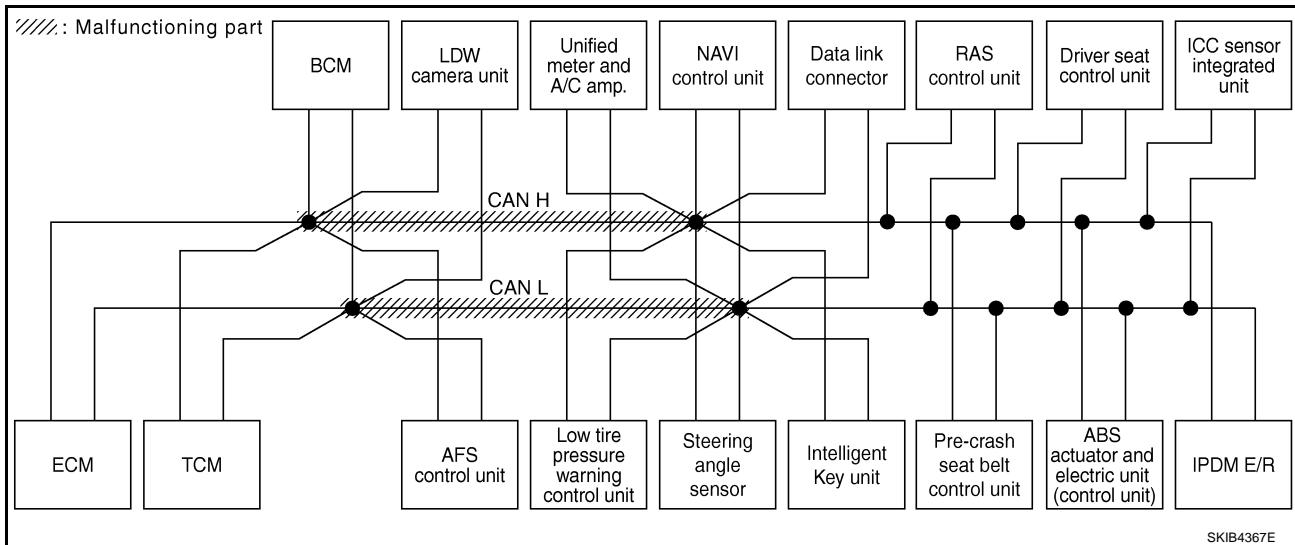
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-500, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U1)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U10)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U10)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U10)	—
LDW	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U10)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U10)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U10)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U10)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U10)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U10)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U10)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U10)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U10)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U10)	—

PKIB8493E



SKIB4367E







# CAN SYSTEM (TYPE 10)

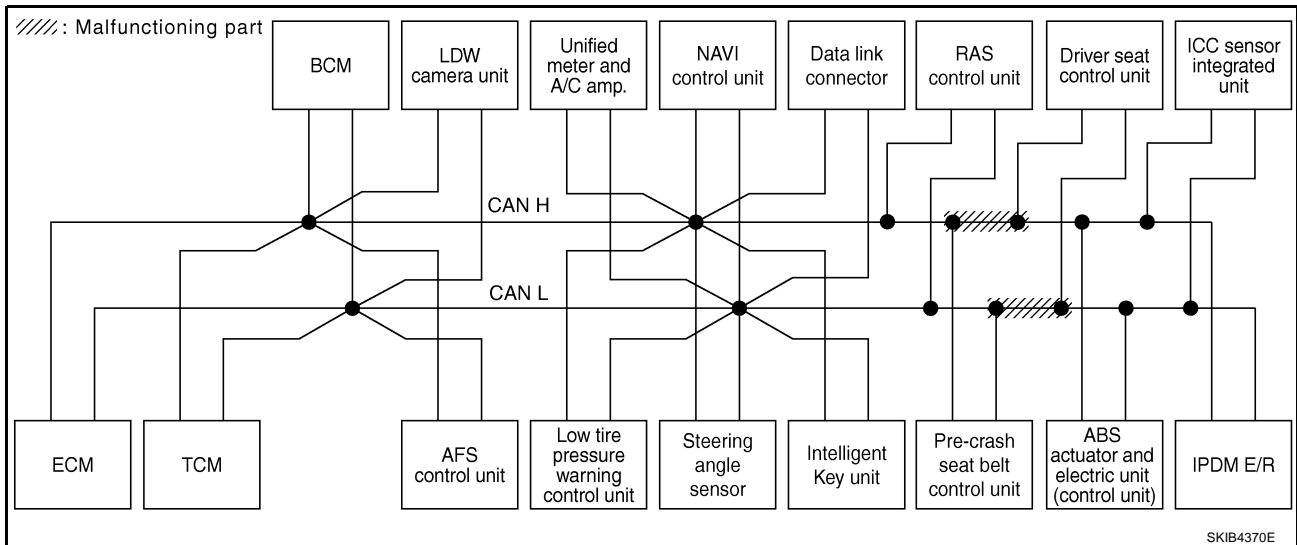
[CAN]

## Case 4

Check harness between pre-crash seat belt control unit and driver seat control unit. Refer to [LAN-502](#), "Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit".

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS						
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																		
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8496E



SKIB4370E

# CAN SYSTEM (TYPE 10)

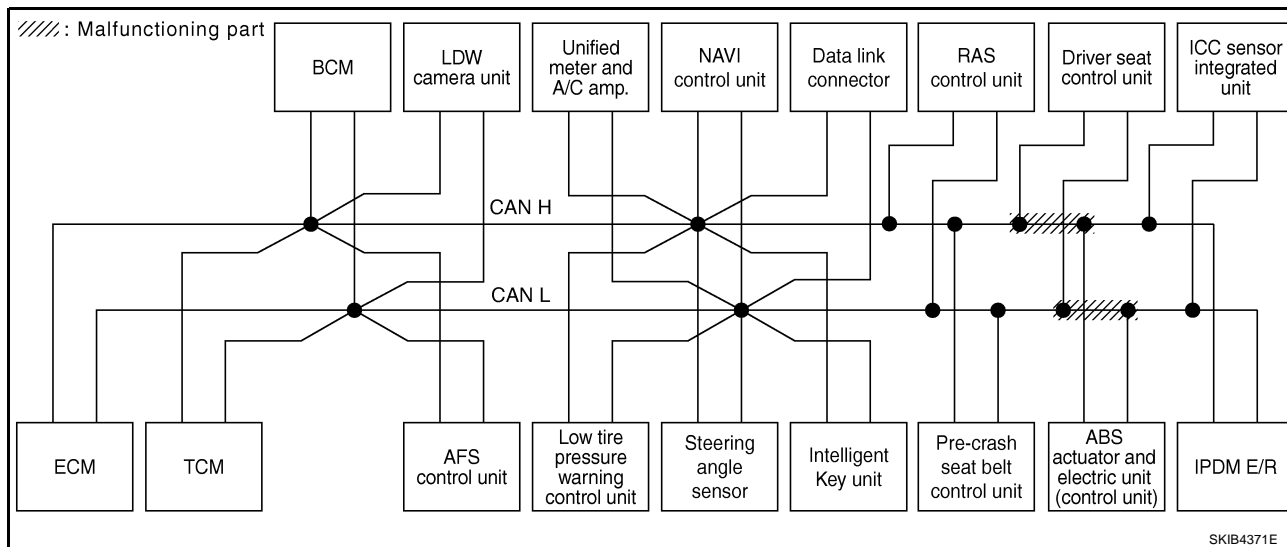
[CAN]

## Case 5

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-503, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB497E



SKIB4371E

# CAN SYSTEM (TYPE 10)

[CAN]

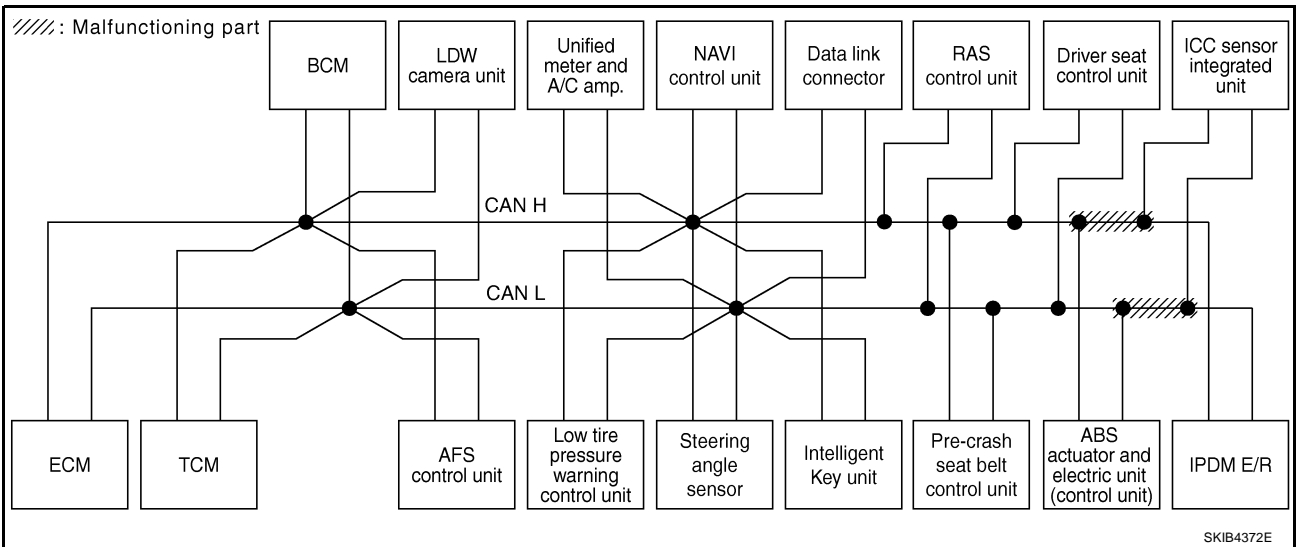
## Case 6

Check harness between ABS actuator and electric unit (control unit) and ICC sensor integrated unit. Refer to [LAN-504, "Inspection Between ABS Actuator and Electric Unit and ICC Sensor Integrated Unit Circuit"](#).

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SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (L1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (L1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8498E



LAN

# CAN SYSTEM (TYPE 10)

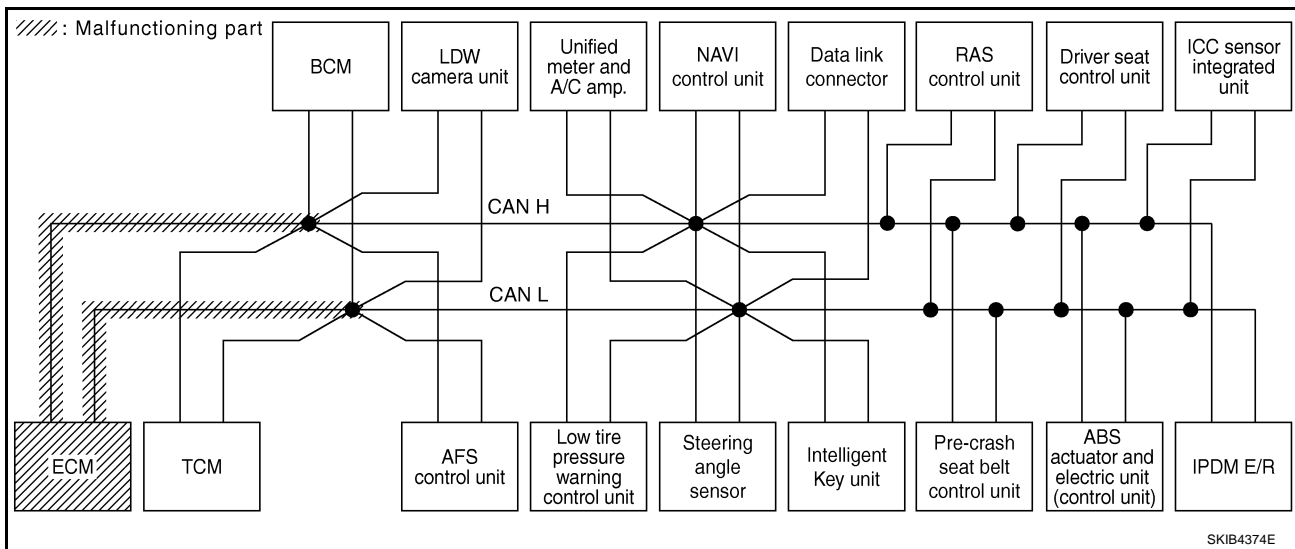
[CAN]

## Case 7

Check ECM circuit. Refer to [LAN-504, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM. CIRCUIT (U0)			CAN COMM. CIRCUIT (U01)	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					ICC/ e4WD
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM. CIRCUIT (U0)	CAN COMM. CIRCUIT (U01)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM. CIRCUIT (U0)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM. CIRCUIT (U0)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	CAN COMM. CIRCUIT (U0)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM. CIRCUIT (U0)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM. CIRCUIT (U0)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM. CIRCUIT (U0)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM. CIRCUIT (U0)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM. CIRCUIT (U0)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM. CIRCUIT (U0)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM. CIRCUIT (U0)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM. CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM. CIRCUIT (U0)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM. CIRCUIT (U0)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM. CIRCUIT (U0)	—

PKIB8499E



# CAN SYSTEM (TYPE 10)

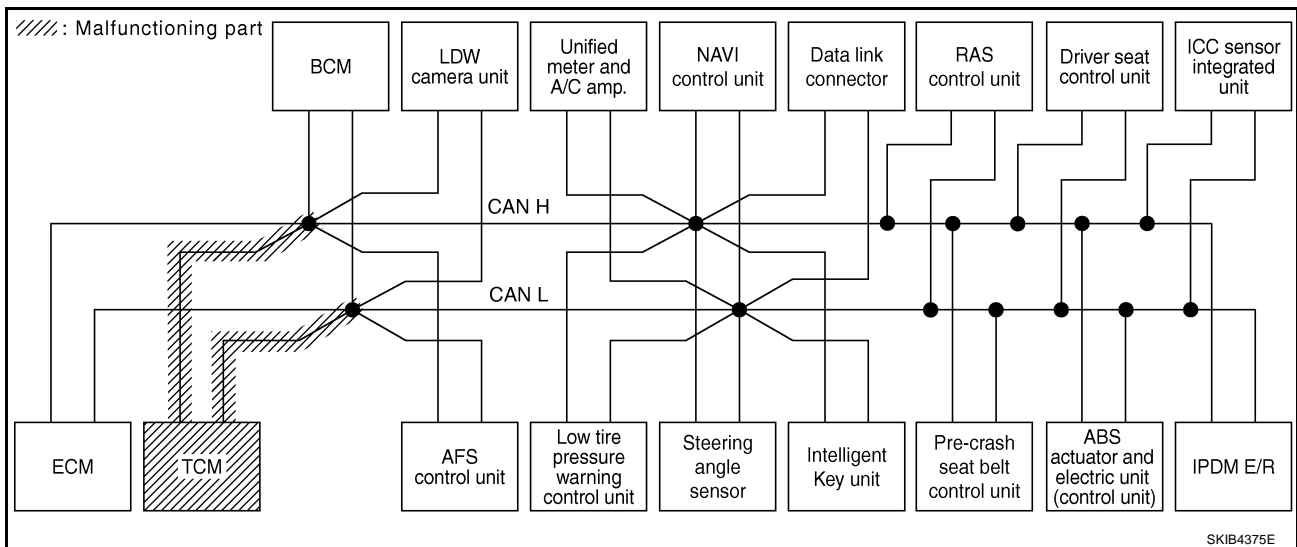
[CAN]

## Case 8

Check TCM circuit. Refer to [LAN-505, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U101)	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					ICC/ e4WD
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8500E



SKIB4375E

# CAN SYSTEM (TYPE 10)

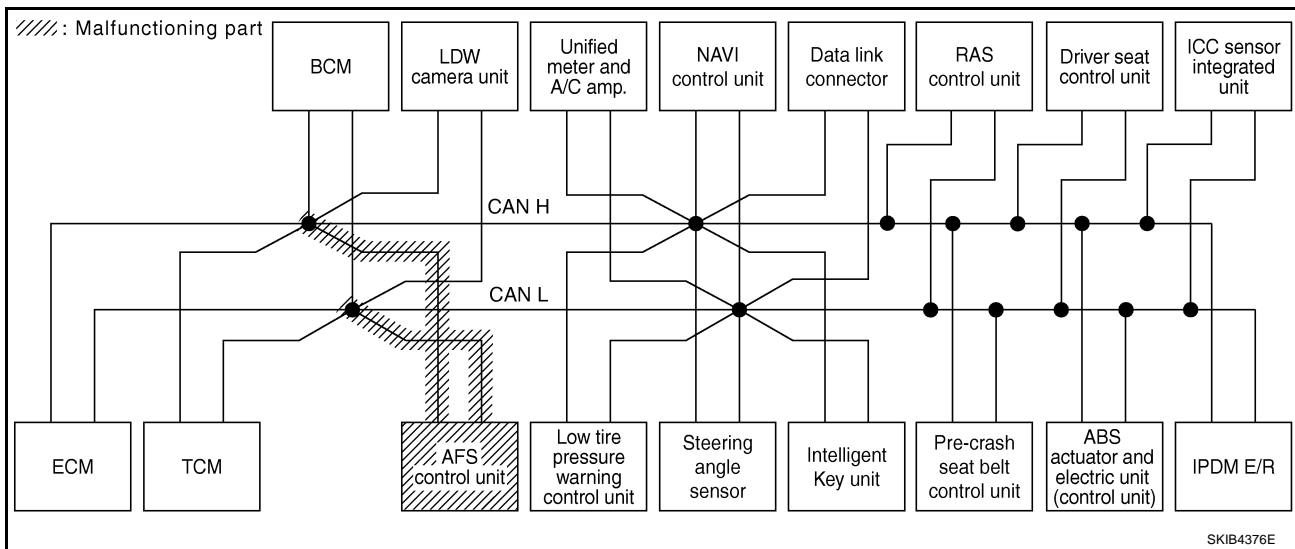
[CAN]

## Case 9

Check AFS control unit circuit. Refer to [LAN-505, "AFS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8501E



SKIB4376E



# CAN SYSTEM (TYPE 10)

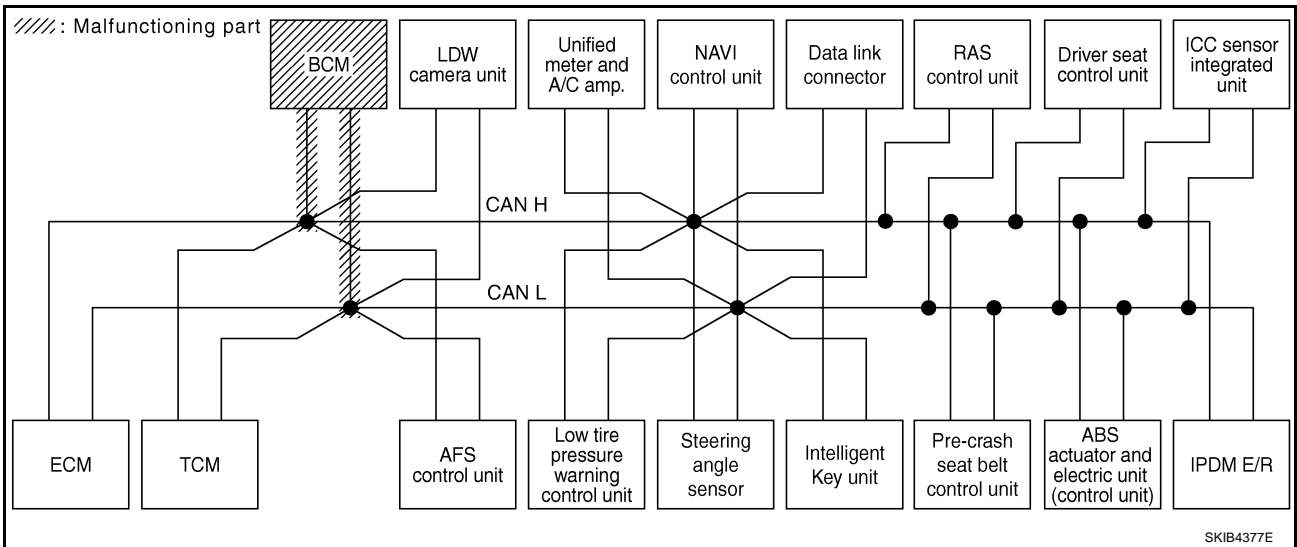
[CAN]

## Case 10

Check BCM circuit. Refer to [LAN-506, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD				
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	UNKW	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	—	—	—	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8502E



SKIB4377E

# CAN SYSTEM (TYPE 10)

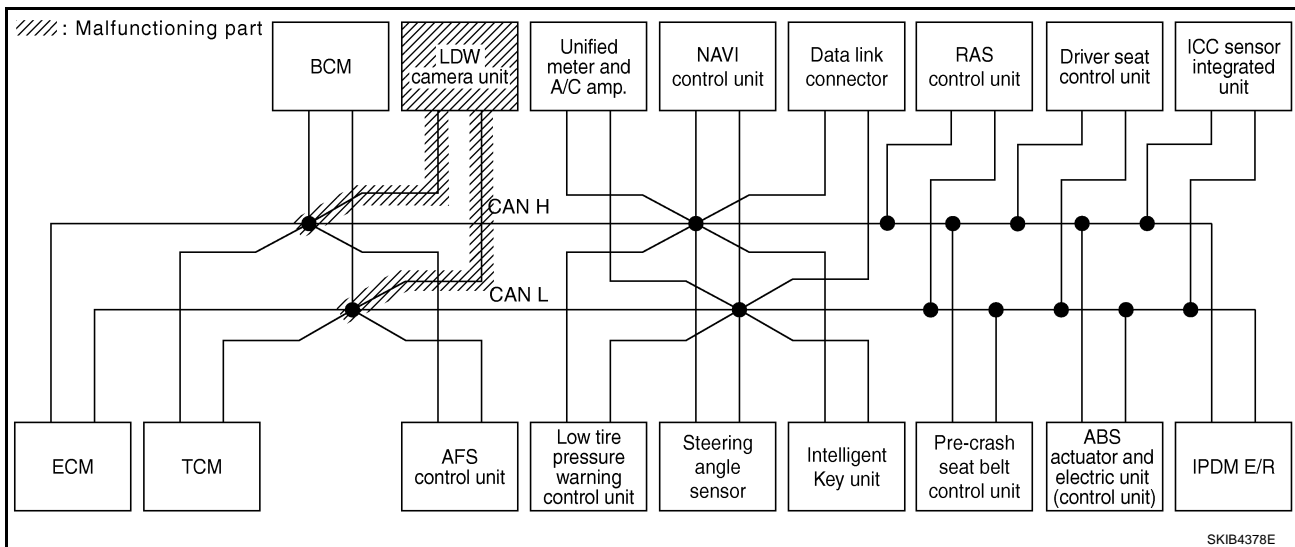
[CAN]

## Case 11

Check LDW camera unit circuit. Refer to [LAN-506, "LDW Camera Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8503E



SKIB4378E

# CAN SYSTEM (TYPE 10)

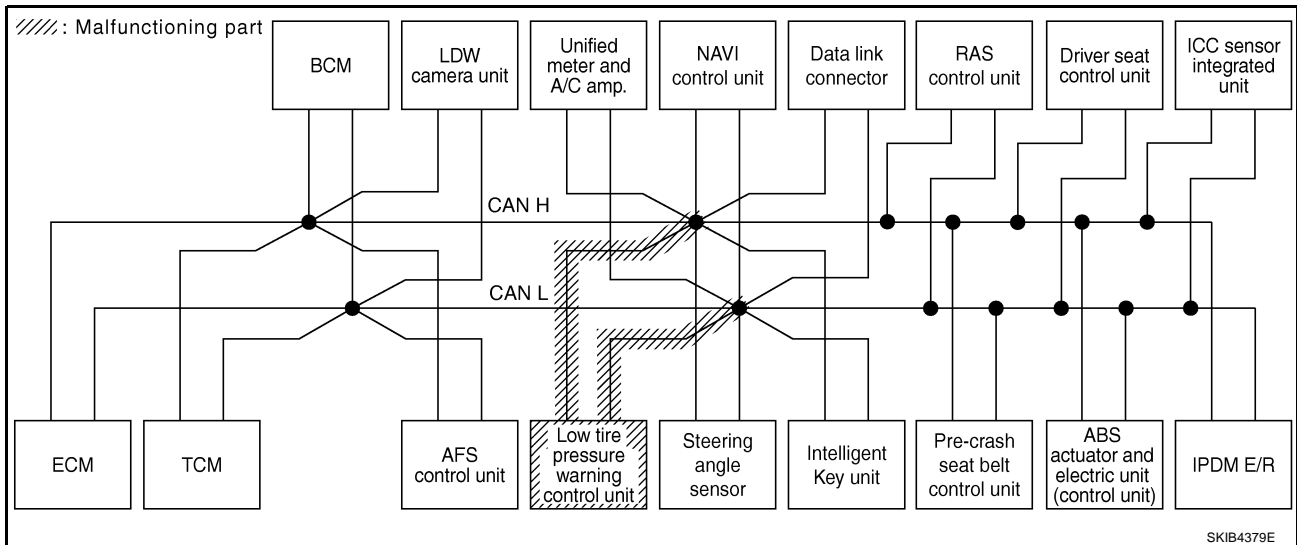
[CAN]

## Case 12

Check low tire pressure warning control unit circuit. Refer to [LAN-507, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8504E



SKIB4379E

# CAN SYSTEM (TYPE 10)

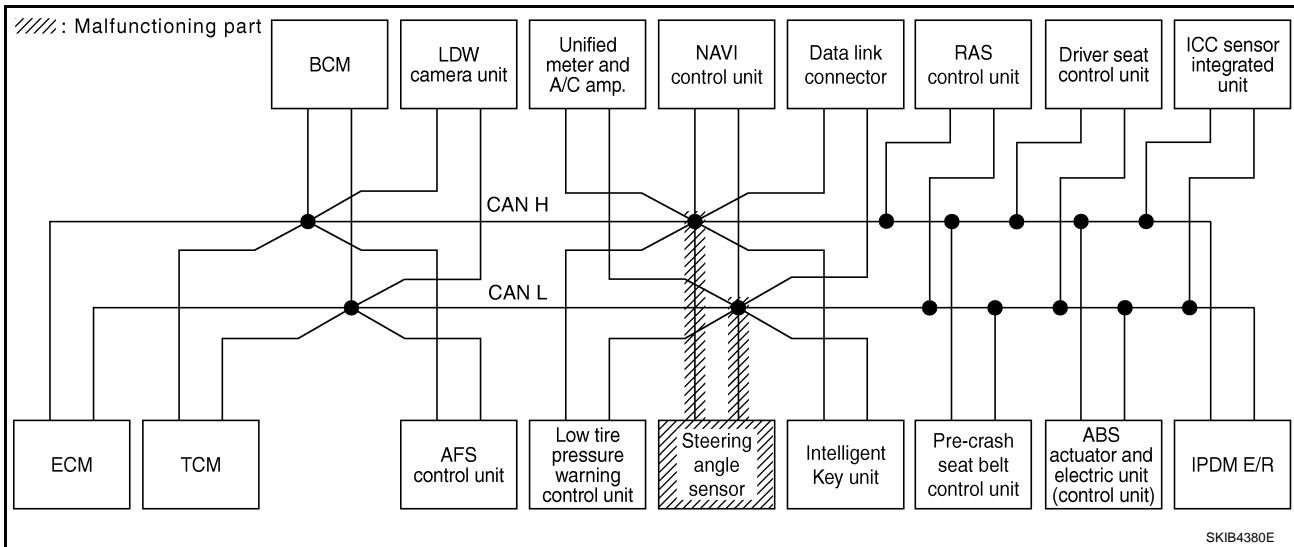
[CAN]

## Case 13

Check steering angle sensor circuit. Refer to [LAN-507, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8505E



SKIB4380E

# CAN SYSTEM (TYPE 10)

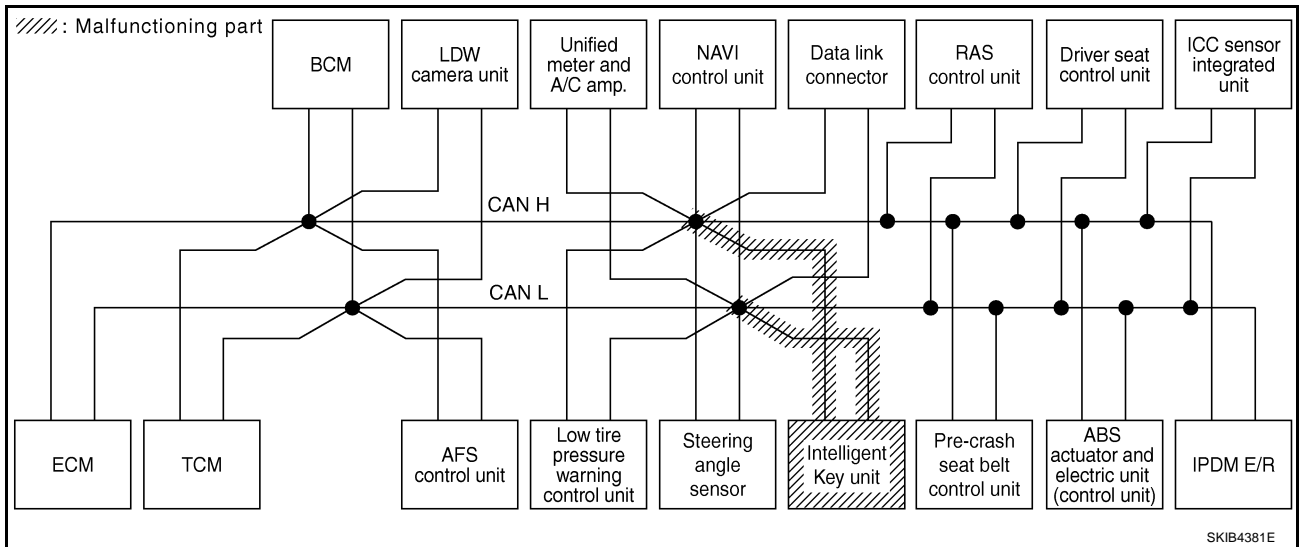
[CAN]

## Case 14

Check Intelligent Key unit circuit. Refer to [LAN-508, "Intelligent Key Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis															
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R	
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8506E



SKIB4381E

# CAN SYSTEM (TYPE 10)

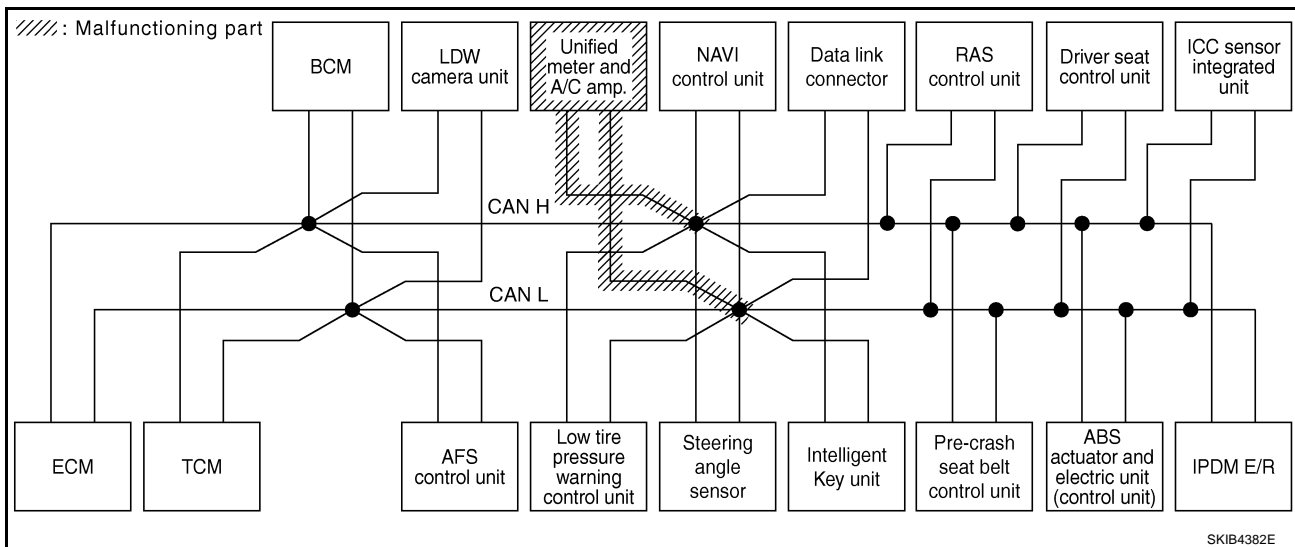
[CAN]

## Case 15

Check unified meter and A/C amp. circuit. Refer to [LAN-508, "Unified Meter and A/C Amp. Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS					
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U101)			
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	RAS	VDC/TCS/ABS					ICC/e4WD	IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8507E



SKIB4382E

# CAN SYSTEM (TYPE 10)

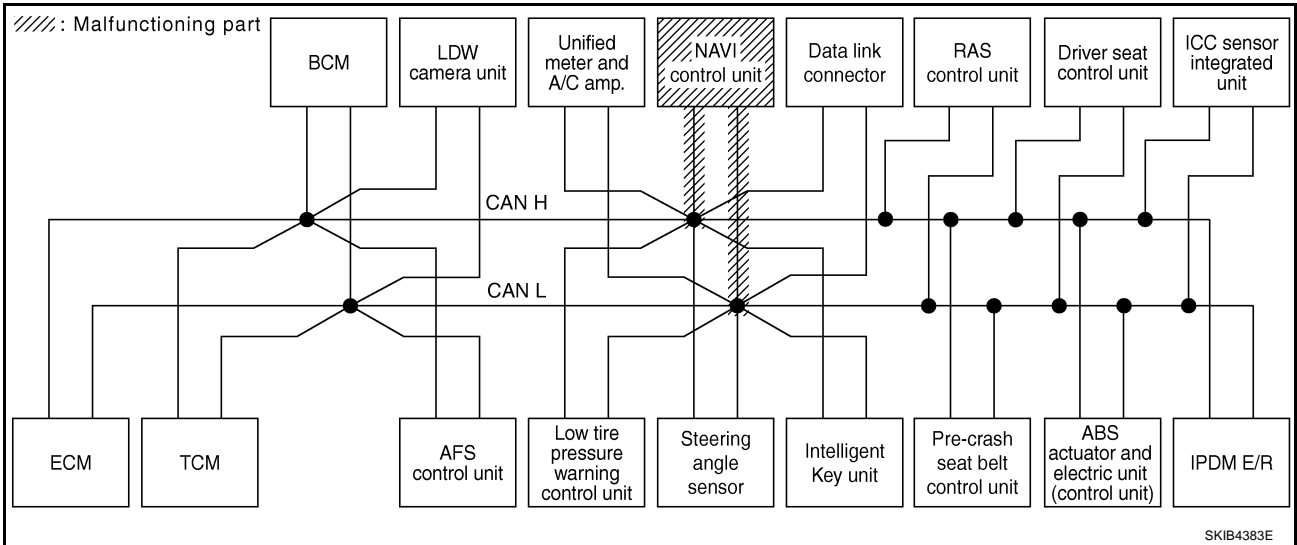
[CAN]

## Case 16

Check NAVI control unit circuit. Refer to [LAN-509, "NAVI Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD				
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	—	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	UNKW	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	UNKW	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8508E



SKIB4383E

# CAN SYSTEM (TYPE 10)

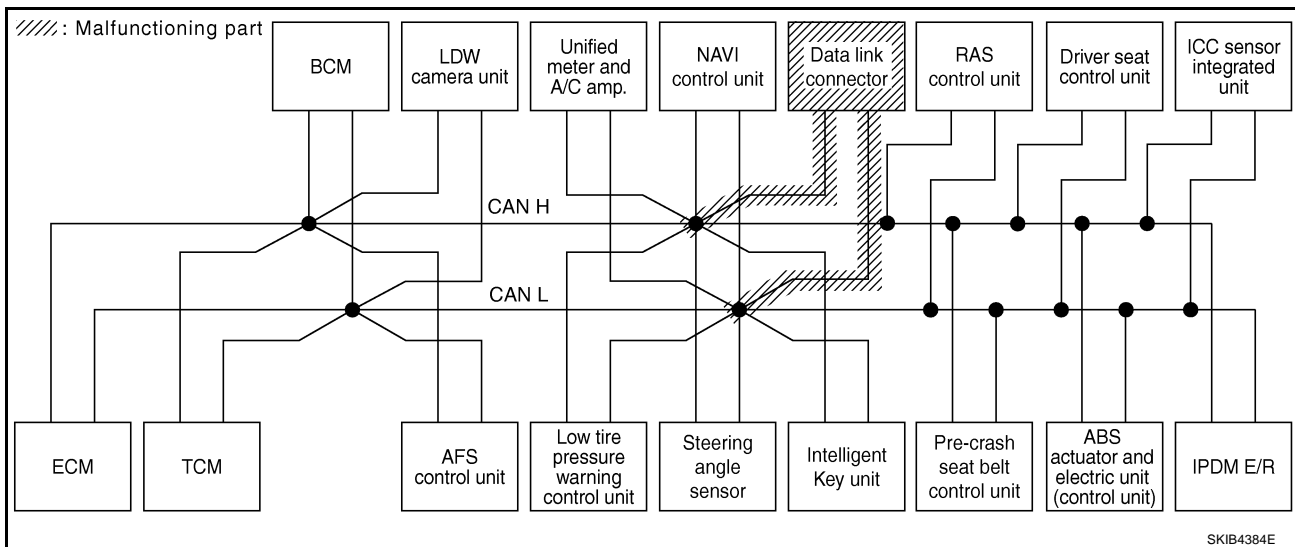
[CAN]

## Case 17

Check data link connector circuit. Refer to [LAN-509, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8509E



SKIB4384E



# CAN SYSTEM (TYPE 10)

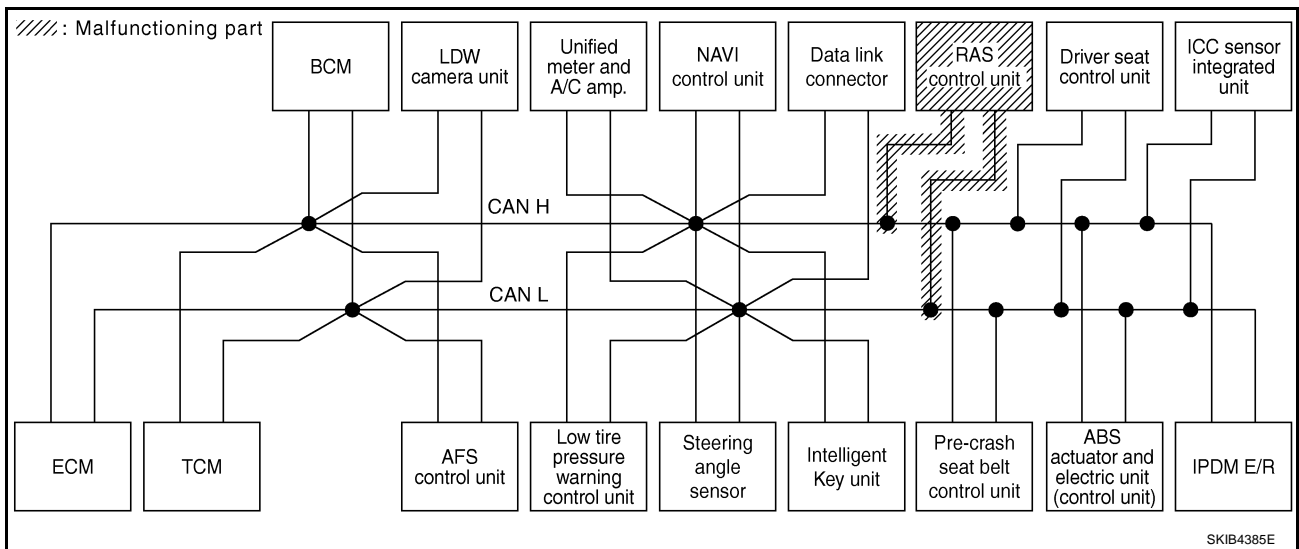
[CAN]

## Case 18

Check RAS control unit circuit. Refer to [LAN-510, "RAS Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS					ICC/ e4WD
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8510E



SKIB4385E

# CAN SYSTEM (TYPE 10)

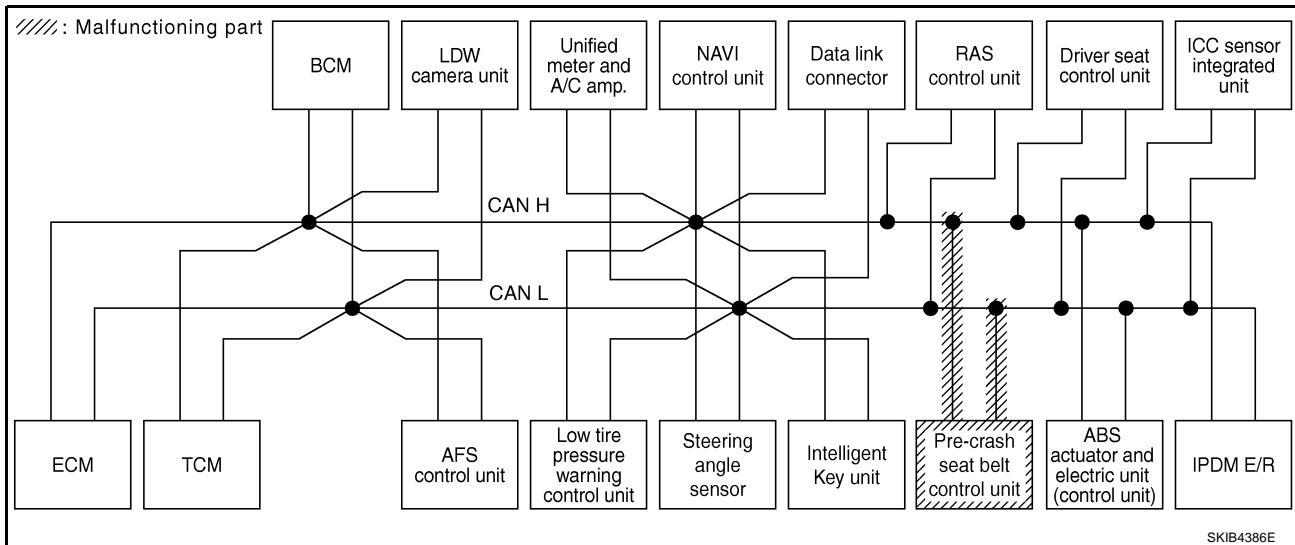
[CAN]

## Case 19

Check pre-crash seat belt control unit circuit. Refer to [LAN-510, "Pre-Crash Seat Belt Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)		
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
LDW	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—		
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—		
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—		
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—		
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—		
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		

PKIB8511E



# CAN SYSTEM (TYPE 10)

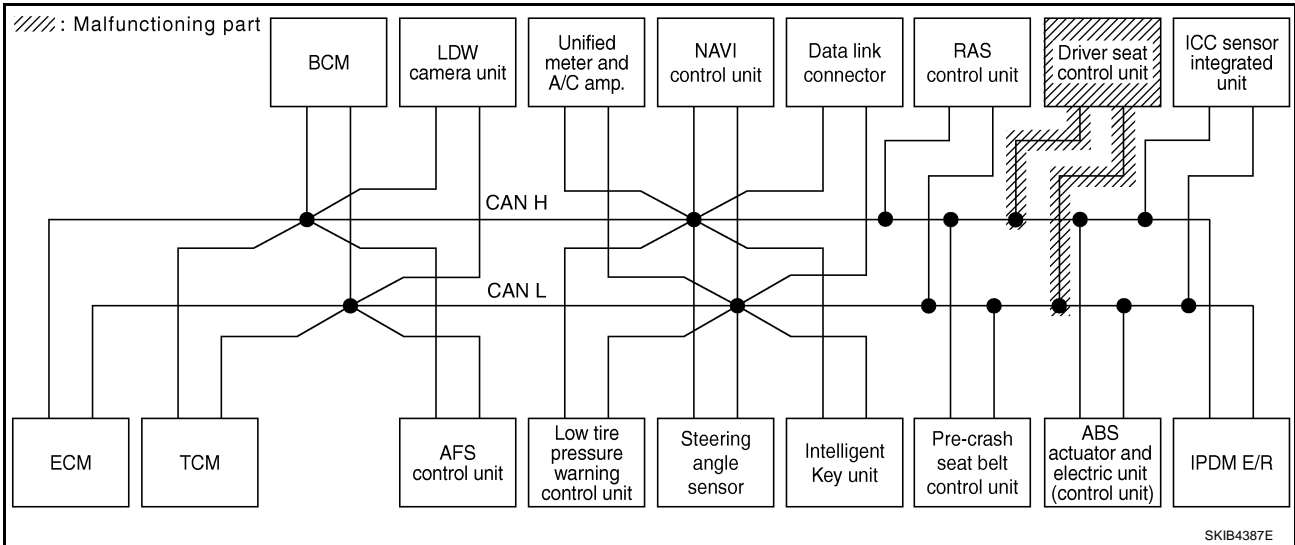
[CAN]

## Case 20

Check driver seat control unit circuit. Refer to [LAN-511, "Driver Seat Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis															
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R	
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	—	—	—	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8512E



SKIB4387E

# CAN SYSTEM (TYPE 10)

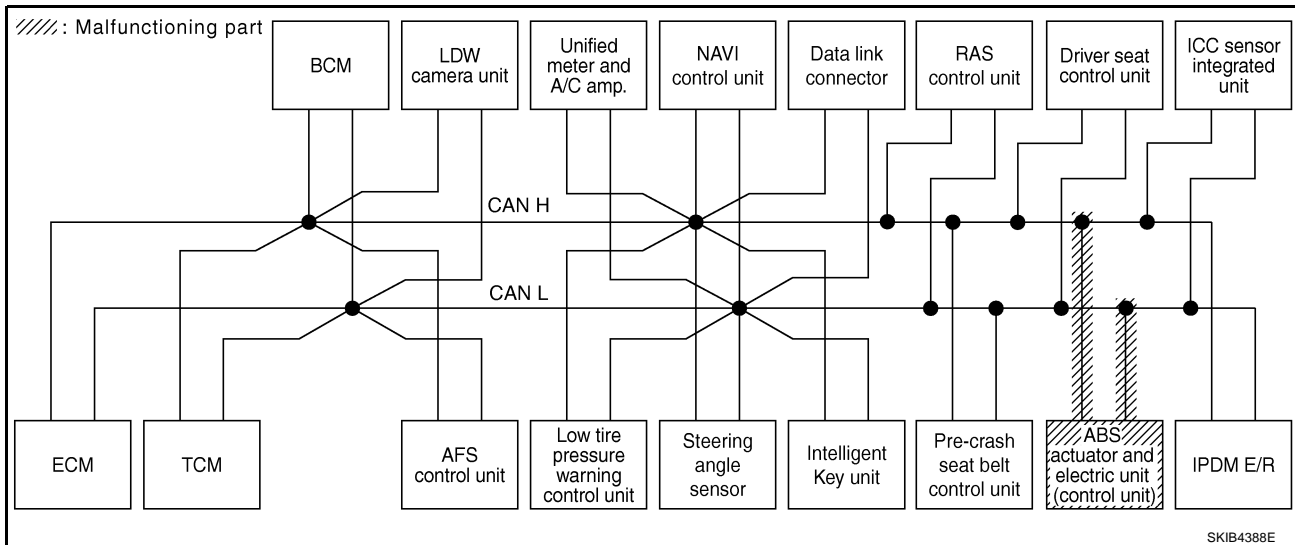
[CAN]

## Case 21

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-511, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8513E



SKIB4388E

# CAN SYSTEM (TYPE 10)

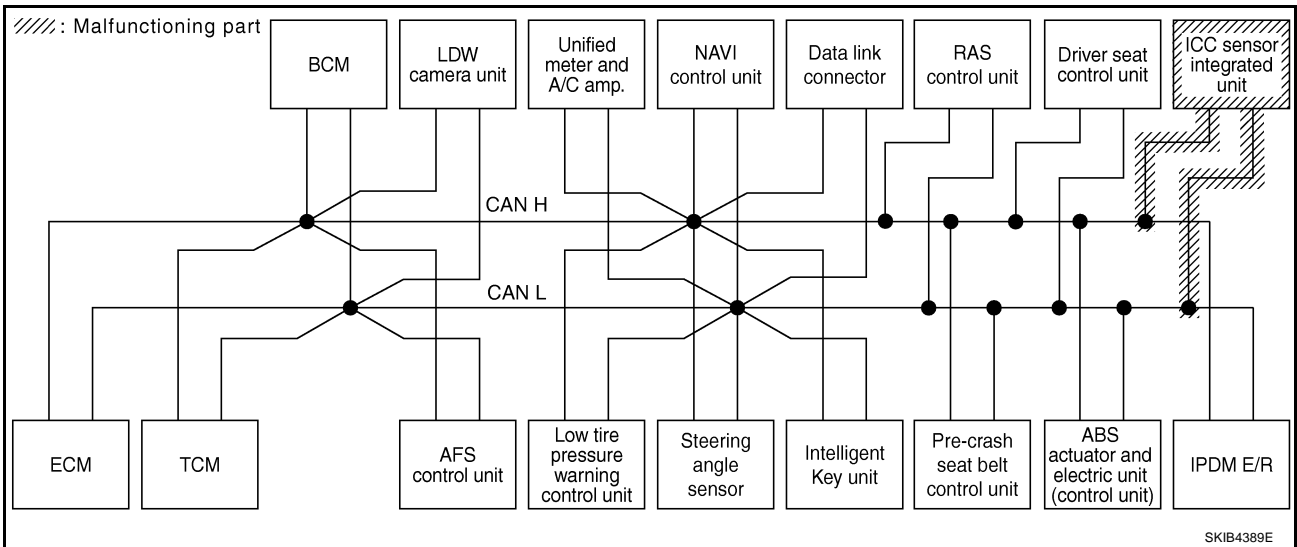
[CAN]

## Case 22

Check ICC sensor integrated unit circuit. Refer to [LAN-512, "ICC Sensor Integrated Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis															
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD			IPDM E/R	
ENGINE	—	—	UNKW	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	✓	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	UNKW	✓	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	—	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	—	UNKW	✓	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKW	UNKW	—	—	—	—	UNKW	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	UNKW	✓	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8514E



SKIB4389E

# CAN SYSTEM (TYPE 10)

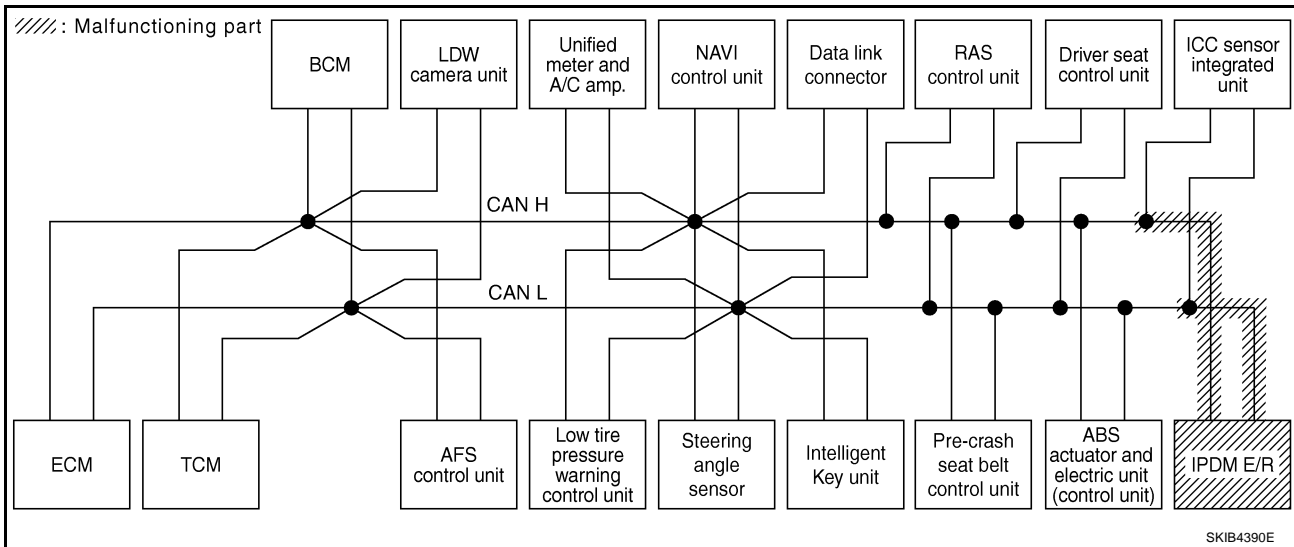
[CAN]

## Case 23

Check IPDM E/R circuit. Refer to [LAN-512, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8515E



SKIB4390E



## Case 26

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-520, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	ICC/ e4WD		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8518E

## Inspection Between TCM and Data Link Connector Circuit

NKS00442

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

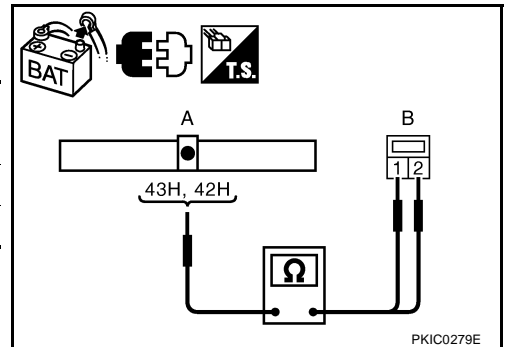
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.  
 NG >> Repair harness.





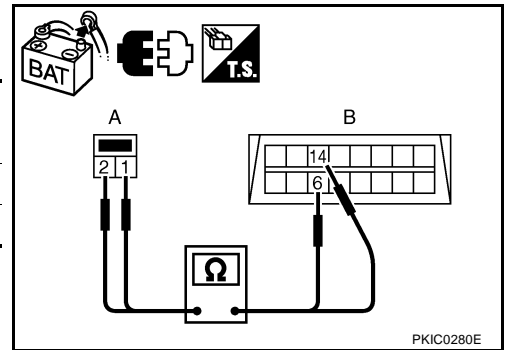
## 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



## Inspection Between Data Link Connector and RAS Control Unit Circuit

NKS00443

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

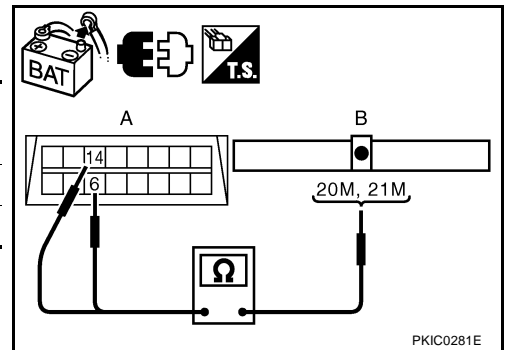
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

**OK or NG**

- OK >> GO TO 3.
- NG >> Repair harness.



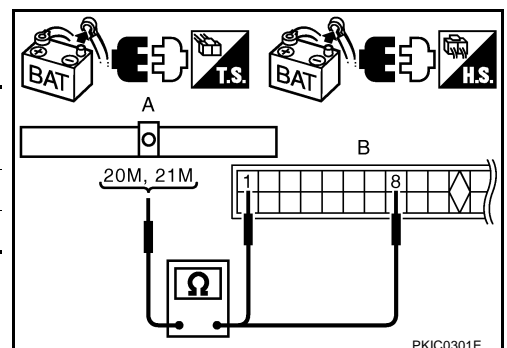
### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect RAS control unit connector.
2. Check continuity between harness connector (A) and RAS control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B127	1	Yes
	21M		8	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.

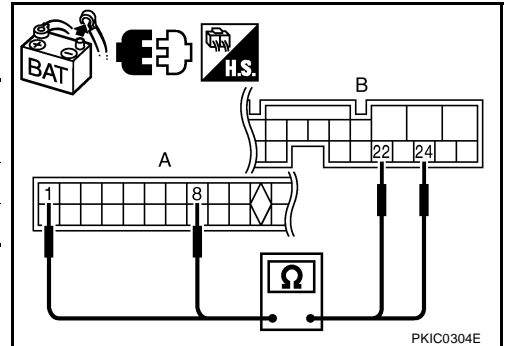


**Inspection Between RAS Control Unit and Pre-Crash Seat Belt Control Unit Circuit**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - RAS control unit connector
  - Pre-crash seat belt control unit connector
4. Check continuity between RAS control unit harness connector (A) and pre-crash seat belt control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B127	1	B142	24	Yes
	8		22	Yes



**OK or NG**

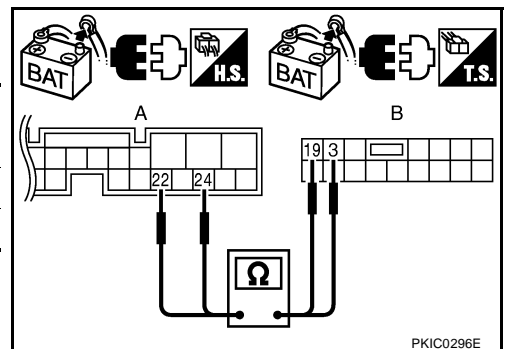
- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Replace harness.

**Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - Pre-crash seat belt control unit connector
  - harness connector B15
4. Check continuity between pre-crash seat belt control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B142	24	B15	3	Yes
	22		19	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Replace harness.

## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

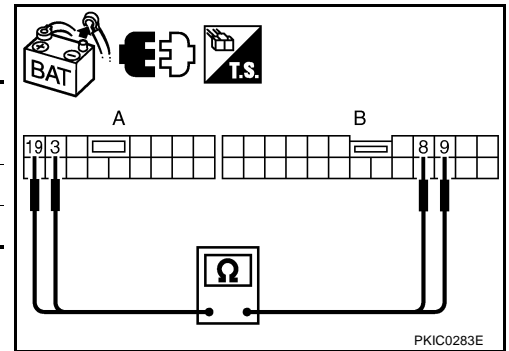
**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes



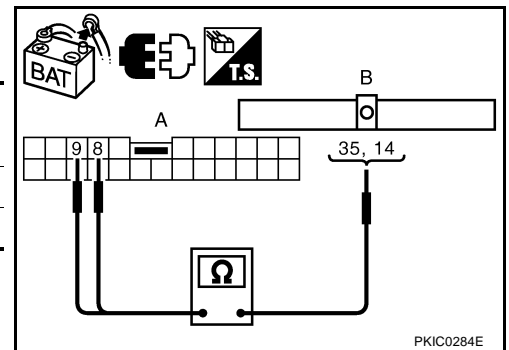
**OK or NG**

- OK >> GO TO 3.
- NG >> Replace harness.

### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes



**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.

A  
B  
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D  
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F  
G  
H  
I  
J  
L  
M

LAN

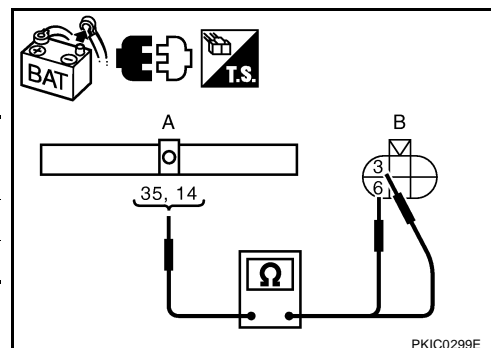
## Inspection Between ABS Actuator and Electric Unit and ICC Sensor Integrated Unit Circuit

NKS00447

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - ABS actuator and electric unit (control unit) connector
  - ICC sensor integrated unit connector
4. Check continuity between ABS actuator and electric unit (control unit) harness connector (A) and ICC sensor integrated unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E30	35	E61	3	Yes
	14		6	Yes



#### OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.

## ECM Circuit Inspection

NKS00448

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

#### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

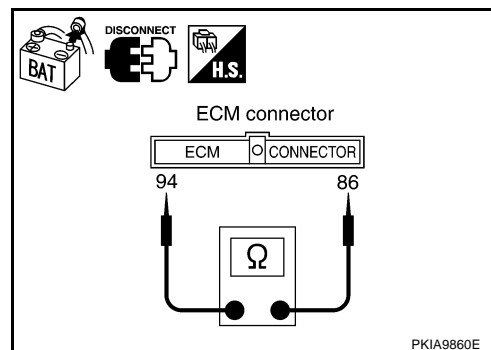
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

#### OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.



**TCM Circuit Inspection**

NKS00449

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

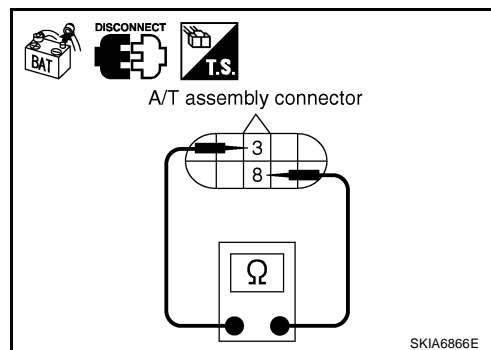
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.  
 NG >> Repair harness between A/T assembly and AFS control unit.

**AFS Control Unit Circuit Inspection**

NKS0044A

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

A  
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LAN

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M

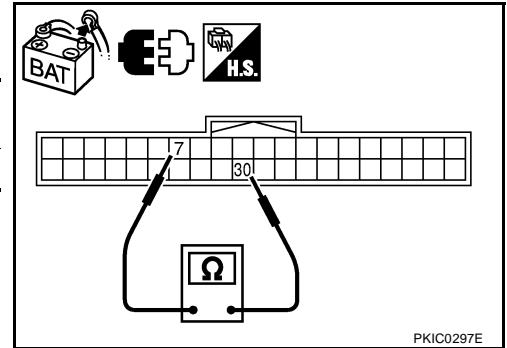
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
F110	30	7	54 – 66 Ω

**OK or NG**

- OK >> Replace AFS control unit.
- NG >> Repair harness between AFS control unit and BCM.



PKIC0297E

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

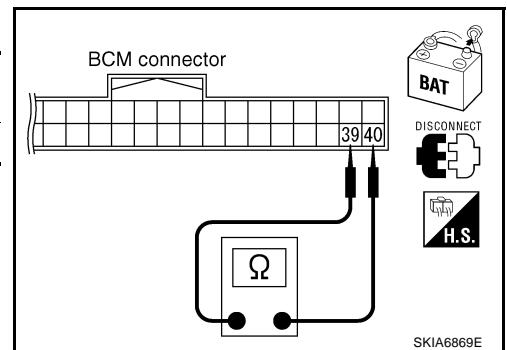
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

**OK or NG**

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#) .
- NG >> Repair harness between BCM and LDW camera unit.



SKIA6869E

## LDW Camera Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of LDW camera unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

NKS0044C

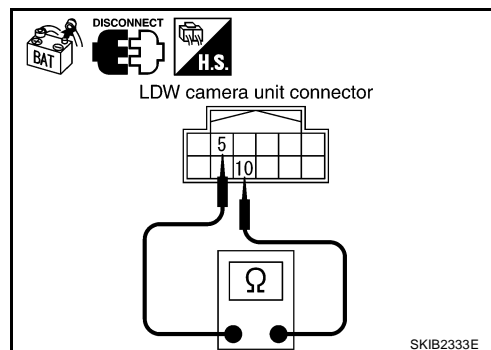
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check resistance between LDW camera unit harness connector terminals.

LDW camera unit connector	Terminal		Resistance (Approx.)
	10	5	
M182	10	5	54 – 66 Ω

### OK or NG

- OK >> Replace LDW camera unit.  
 NG >> Repair harness between LDW camera unit and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

NKS0044D

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

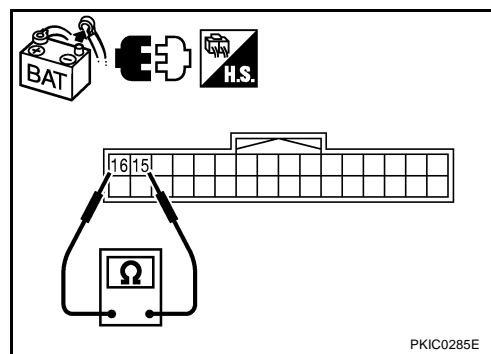
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
	15	16	
M19	15	16	54 – 66 Ω

### OK or NG

- OK >> Replace low tire pressure warning control unit.  
 NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS0044E

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

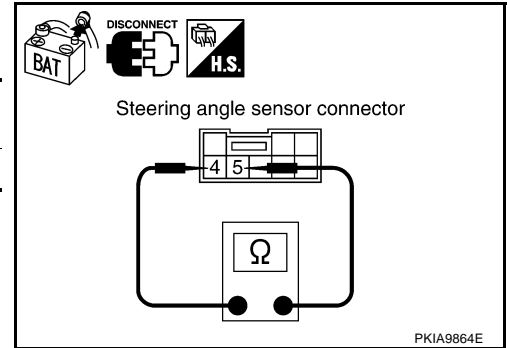
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
	4	5	
M47	4	5	54 – 66 Ω

### OK or NG

- OK >> Replace steering angle sensor.  
 NG >> Repair harness between steering angle sensor and data link connector.



NKS0044F

## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

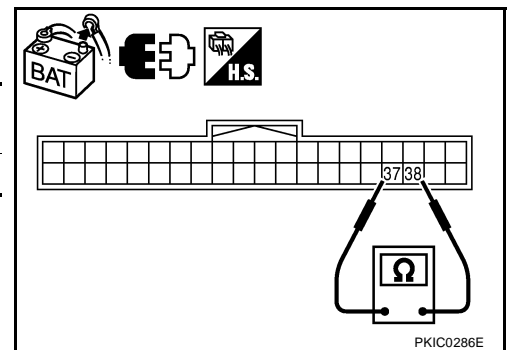
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
	38	37	
M32	38	37	54 – 66 Ω

### OK or NG

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS0044G

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.



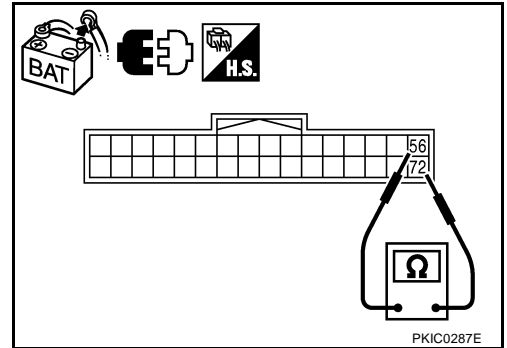
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
M65	56	72	54 – 66 Ω

**OK or NG**

- OK >> Replace unified meter and A/C amp.
- NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS0044H

## NAVI Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - NAVI control unit connector
  - Harness connector M216
  - Harness connector M53

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

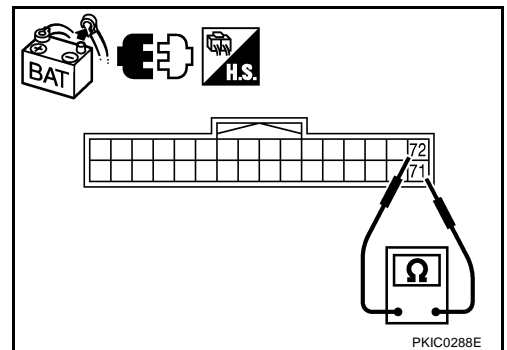
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check resistance between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

**OK or NG**

- OK >> Replace NAVI control unit.
- NG >> Repair harness between NAVI control unit and data link connector.



NKS0044I

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

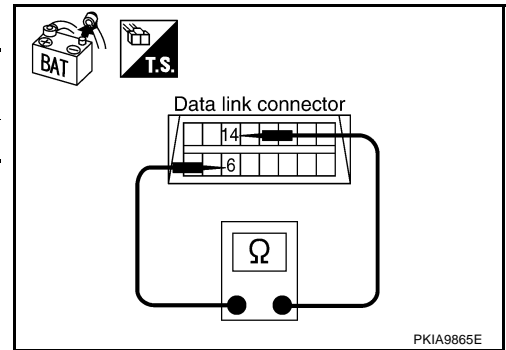
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

### OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



NKS0044J

## RAS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

- Turn ignition switch OFF.
- Disconnect the battery cable from the negative terminal.
- Check terminals and connector of RAS control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

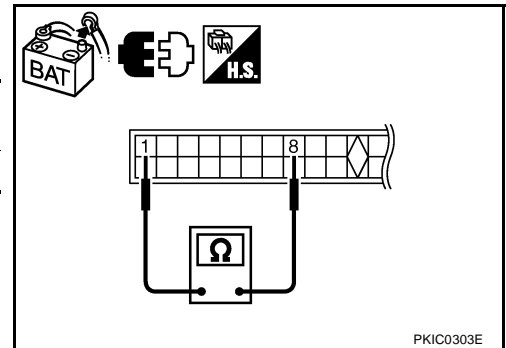
## 2. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect RAS control unit connector.
- Check resistance between RAS control unit harness connector terminals.

RAS control unit connector	Terminal		Resistance (Approx.)
B127	1	8	54 – 66 Ω

### OK or NG

- OK >> Replace RAS control unit.
- NG >> Replace harness.



NKS0044K

## Pre-Crash Seat Belt Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

- Turn ignition switch OFF.
- Disconnect the battery cable from the negative terminal.
- Check terminals and connector of pre-crash seat belt control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

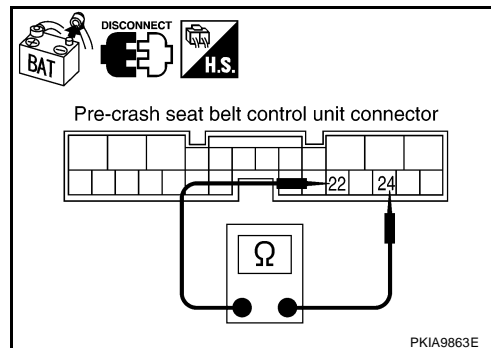
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check resistance between pre-crash seat belt control unit harness connector terminals.

Pre-crash seat belt control unit connector	Terminal		Resistance (Approx.)
B142	24	22	54 – 66 Ω

**OK or NG**

- OK >> Replace pre-crash seat belt control unit.
- NG >> Replace harness.



NKS0044L

## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

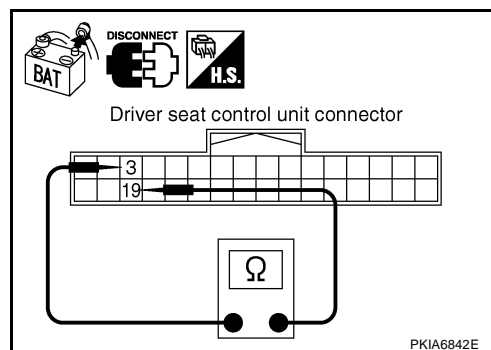
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

**OK or NG**

- OK >> Replace driver seat control unit.
- NG >> Replace harness.



NKS0044M

## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

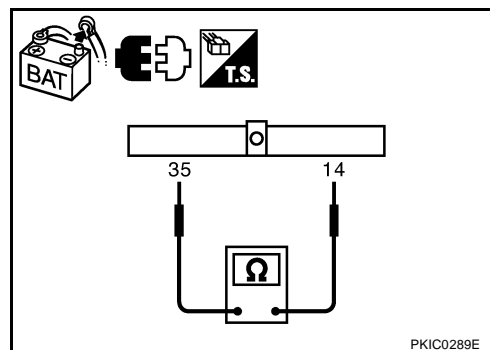
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

**OK or NG**

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) and ICC sensor integrated unit.



## ICC Sensor Integrated Unit Circuit Inspection

NKS0044N

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ICC sensor integrated unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

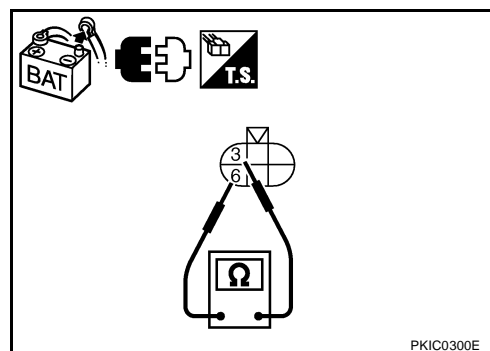
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC sensor integrated unit connector.
2. Check resistance between ICC sensor integrated unit harness connector terminals.

ICC sensor integrated unit connector	Terminal		Resistance (Approx.)
E61	3	6	54 – 66 Ω

**OK or NG**

- OK >> Replace ICC sensor integrated unit.
- NG >> Repair harness between ICC sensor integrated unit and IPDM E/R.



## IPDM E/R Circuit Inspection

NKS0044O

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

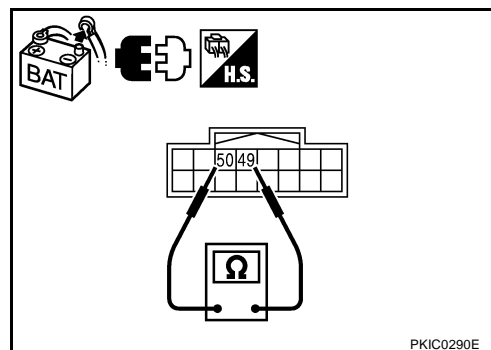
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

### OK or NG

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and ICC sensor integrated unit.



NKS0044P

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AFS control unit
  - BCM
  - LDW camera unit
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - RAS control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ICC sensor integrated unit
  - IPDM E/R
  - Between ECM and A/T assembly
  - Between ECM and AFS control unit
  - Between ECM and NAVI control unit
  - Between ECM and driver seat control unit
  - Between ECM and IPDM E/R

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

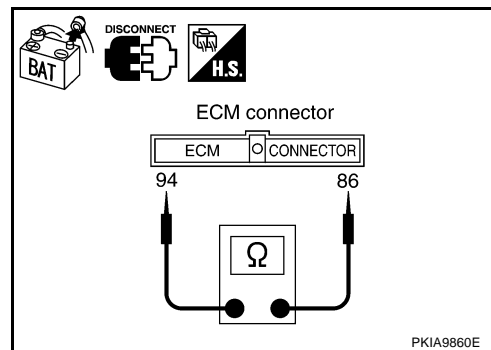
## 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - LDW camera unit connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and LDW camera unit
  - Harness between ECM and harness connector M61



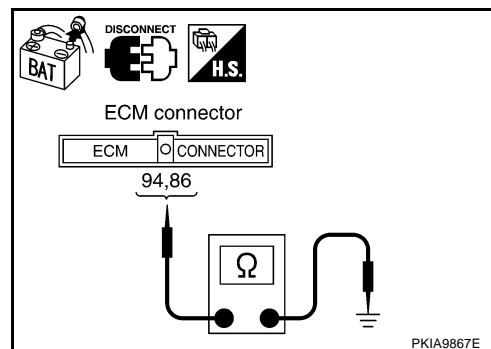
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		
	86		No

**OK or NG**

- OK >> GO TO 4.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and LDW camera unit
  - Harness between ECM and harness connector M61



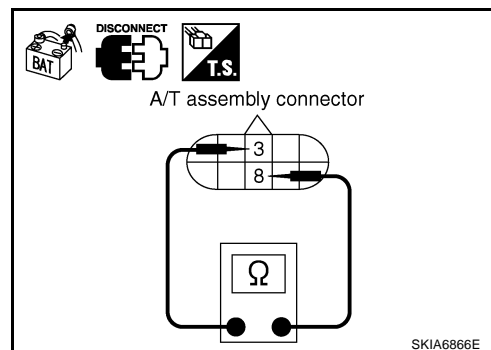
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.
- NG >> Repair harness between A/T assembly and harness connector F102.



## 5. CHECK HARNESS FOR SHORT CIRCUIT

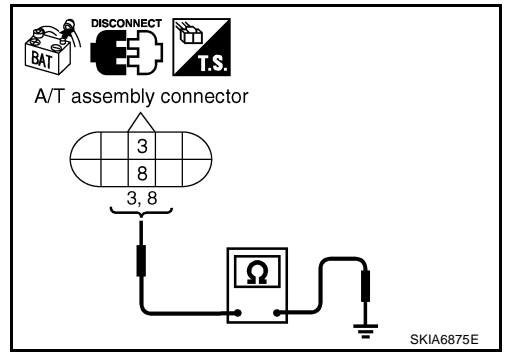
Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

**OK or NG**

OK >> GO TO 6.

NG >> Repair harness between A/T assembly and harness connector F102.



## 6. CHECK HARNESS FOR SHORT CIRCUIT

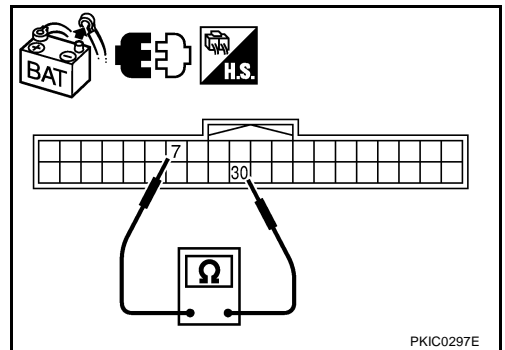
1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal	Continuity
F110	30	No

**OK or NG**

OK >> GO TO 7.

NG >> Repair harness between AFS control unit and harness connector F102.



## 7. CHECK HARNESS FOR SHORT CIRCUIT

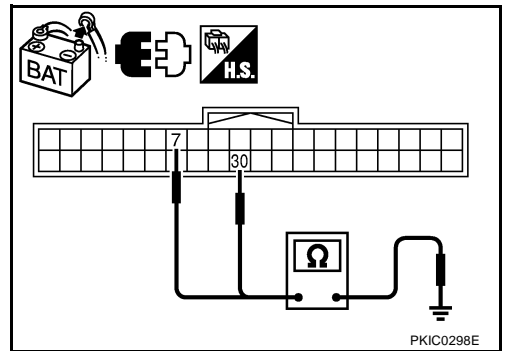
Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		
	7	No	

**OK or NG**

OK >> GO TO 8.

NG >> Replace harness between AFS control unit and harness connector F102.



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## 8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

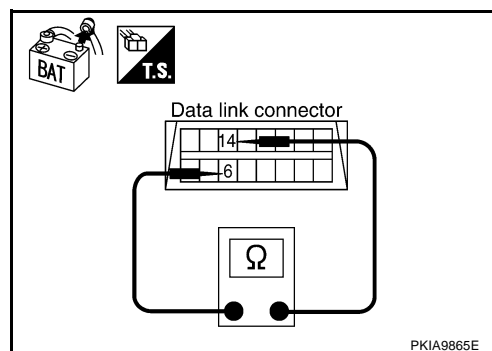
Data link connector	Terminal		Continuity
M60	6	14	No

**OK or NG**

OK >> GO TO 9.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



## 9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

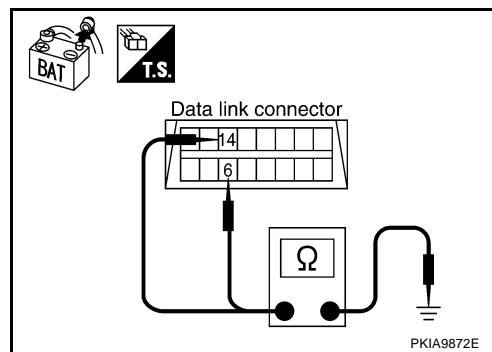
Data link connector	Terminal	Ground	Continuity
M60	6	Ground	No
	14		No

**OK or NG**

OK >> GO TO 10.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13





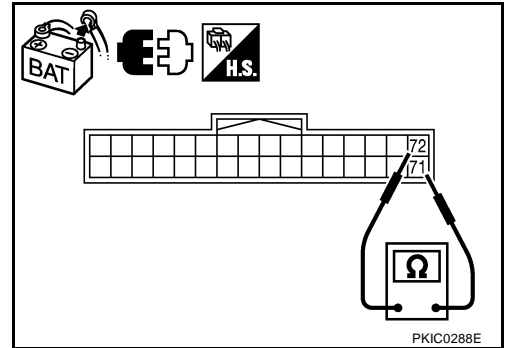
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check continuity between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Continuity
M210	71	72	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



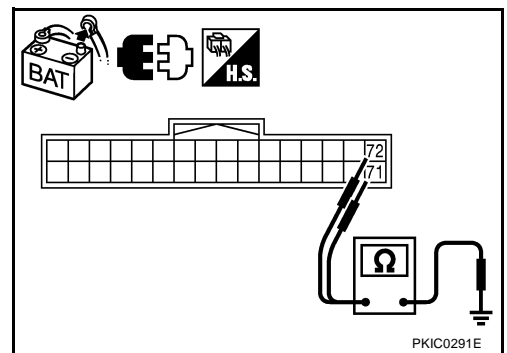
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between NAVI control unit harness connector terminals and ground.

NAVI control unit connector	Terminal	Ground	Continuity
M210	71		
	72		No

**OK or NG**

- OK >> GO TO 12.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



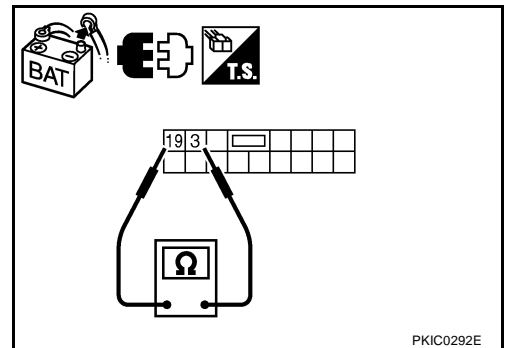
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - RAS control unit connector
  - Pre-crash seat belt control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Replace harness.



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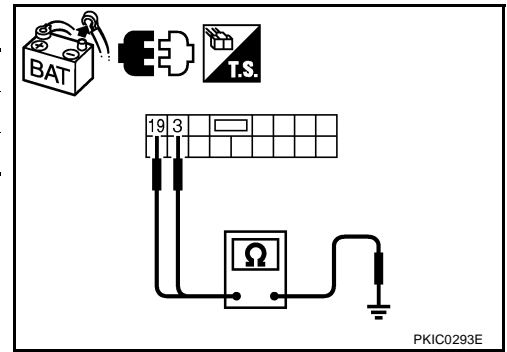
### 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19	No	

OK or NG

- OK >> GO TO 14.
- NG >> Replace harness.



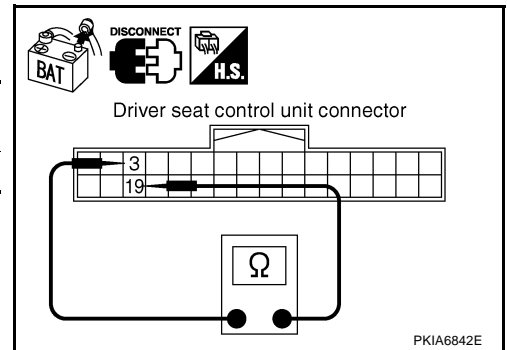
### 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal	Continuity
B204	3, 19	No

OK or NG

- OK >> GO TO 15.
- NG >> Repair harness between driver seat control unit and harness connector B202.



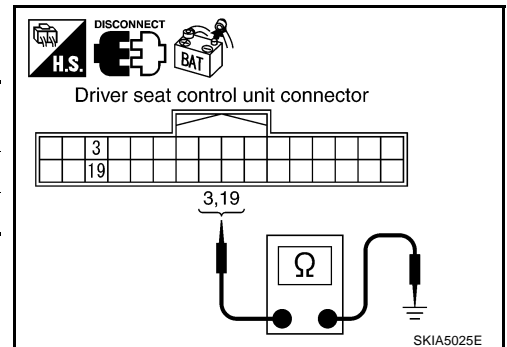
### 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

OK or NG

- OK >> GO TO 16.
- NG >> Repair harness between driver seat control unit and harness connector B202.



## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ABS actuator and electric unit (control unit) connector
  - ICC sensor integrated unit connector
  - IPDM E/R connector
2. Check continuity between IPDM E/R harness connector terminals.

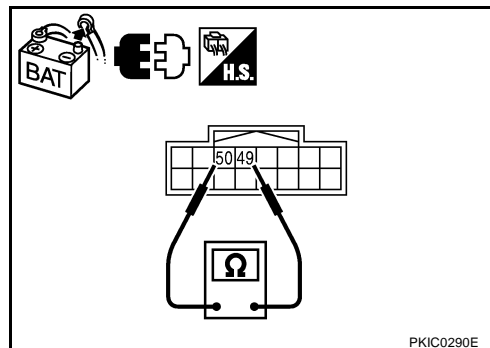
IPDM E/R connector	Terminal		Continuity
E9	49	50	No

**OK or NG**

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)
- Harness between IPDM E/R and ICC sensor integrated unit



## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

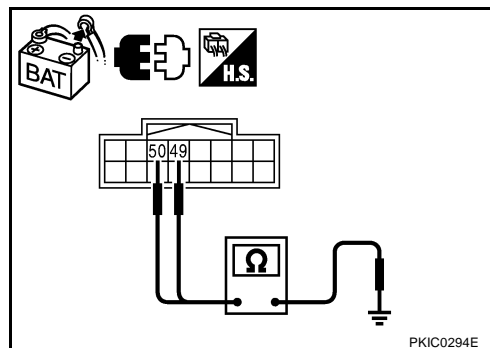
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		
	50		No

**OK or NG**

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)
- Harness between IPDM E/R and ICC sensor integrated unit



## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminals		Resistance (Approx.)
94	86	108 – 132 Ω

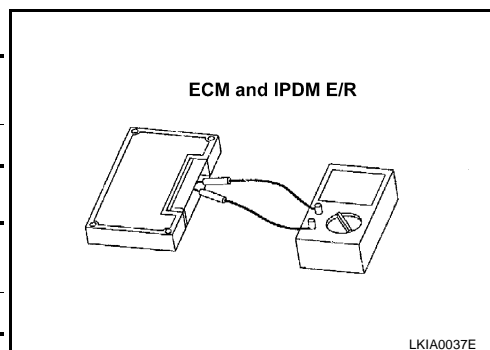
3. Check resistance between IPDM E/R terminals.

Terminals		Resistance (Approx.)
49	50	108 – 132 Ω

**OK or NG**

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



## 19. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AFS control unit
  - BCM
  - LDW camera unit
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - RAS control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ICC sensor integrated unit
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

NKS0044Q

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)

# CAN SYSTEM (TYPE 11)

[CAN]

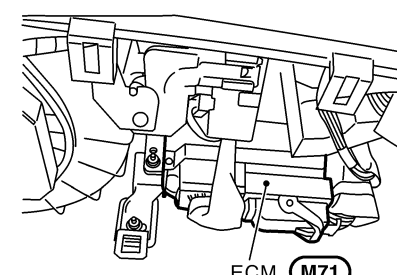
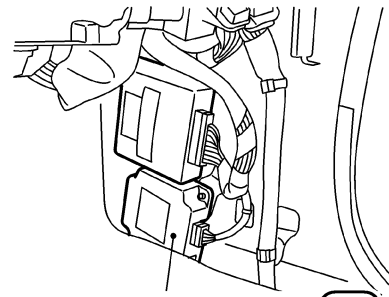
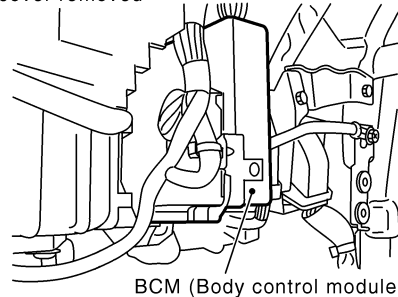
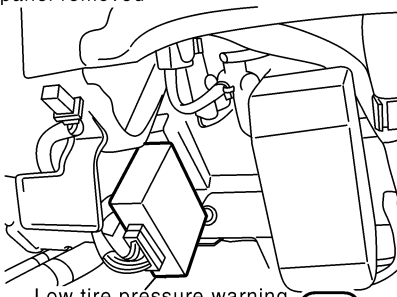
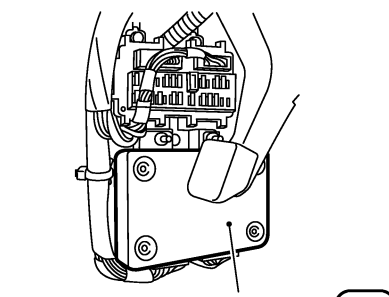
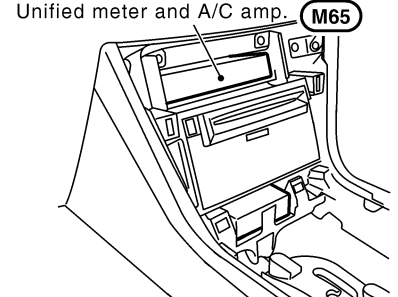
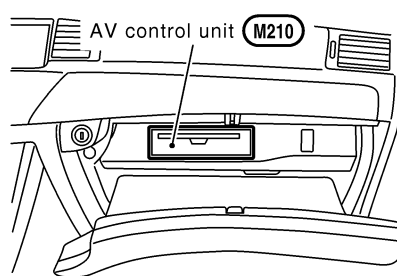
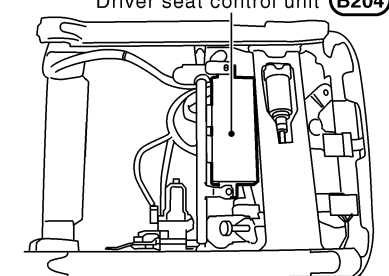
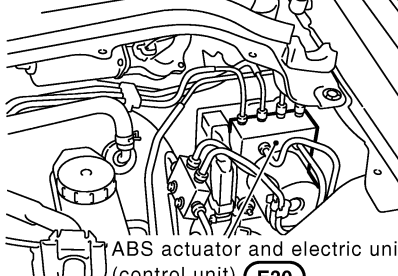
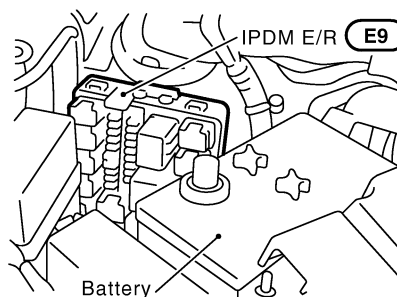
PFP:23710

NKS0044R

## CAN SYSTEM (TYPE 11)

### Component Parts and Harness Connector Location

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<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AWD control unit (F109)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>AV control unit (M210)</p>	<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>	<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>
<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>		

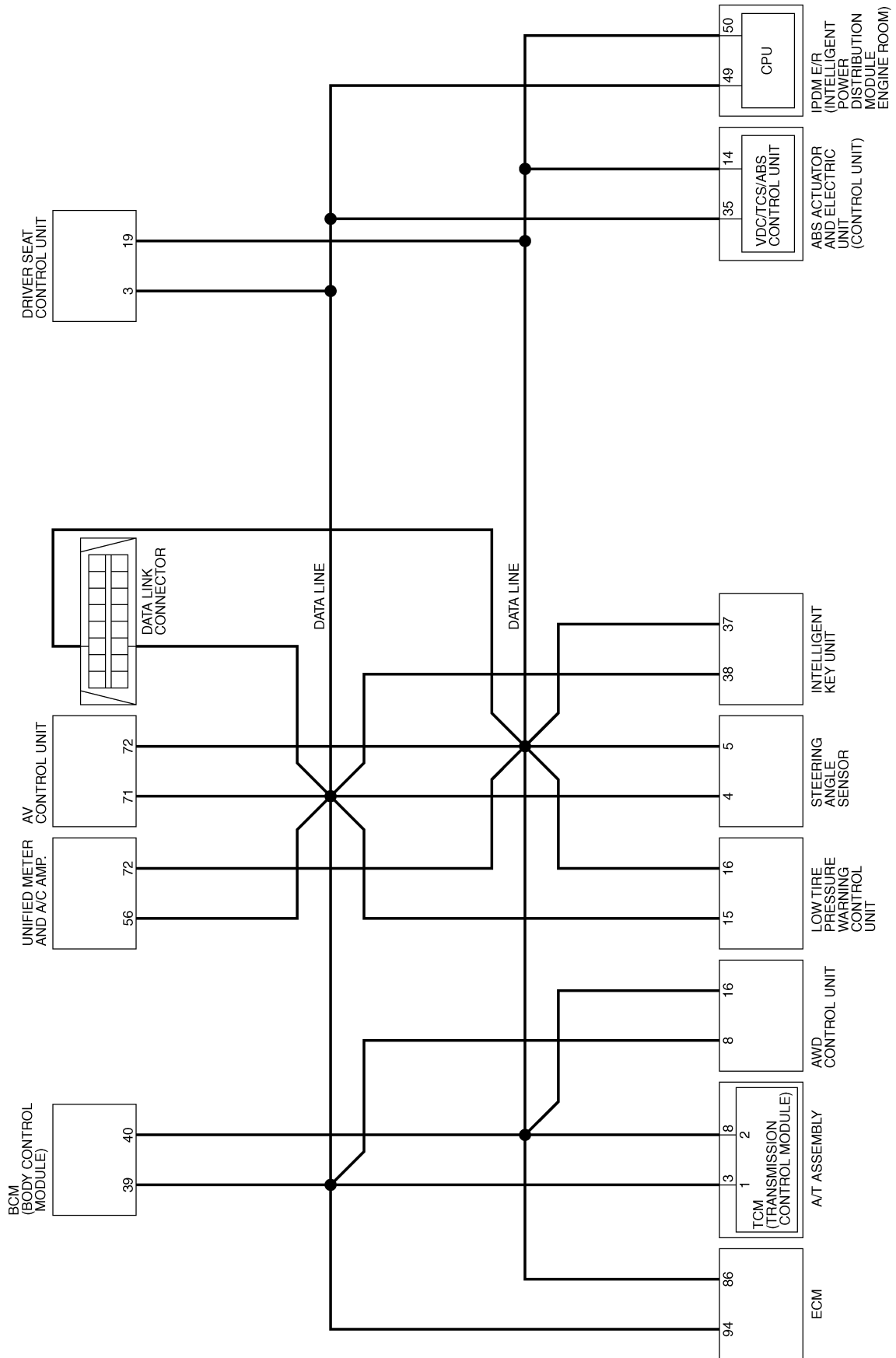
PKIC0609E

# CAN SYSTEM (TYPE 11)

[CAN]

## Schematic

NKS0044S



TKWT3295E

# CAN SYSTEM (TYPE 11)

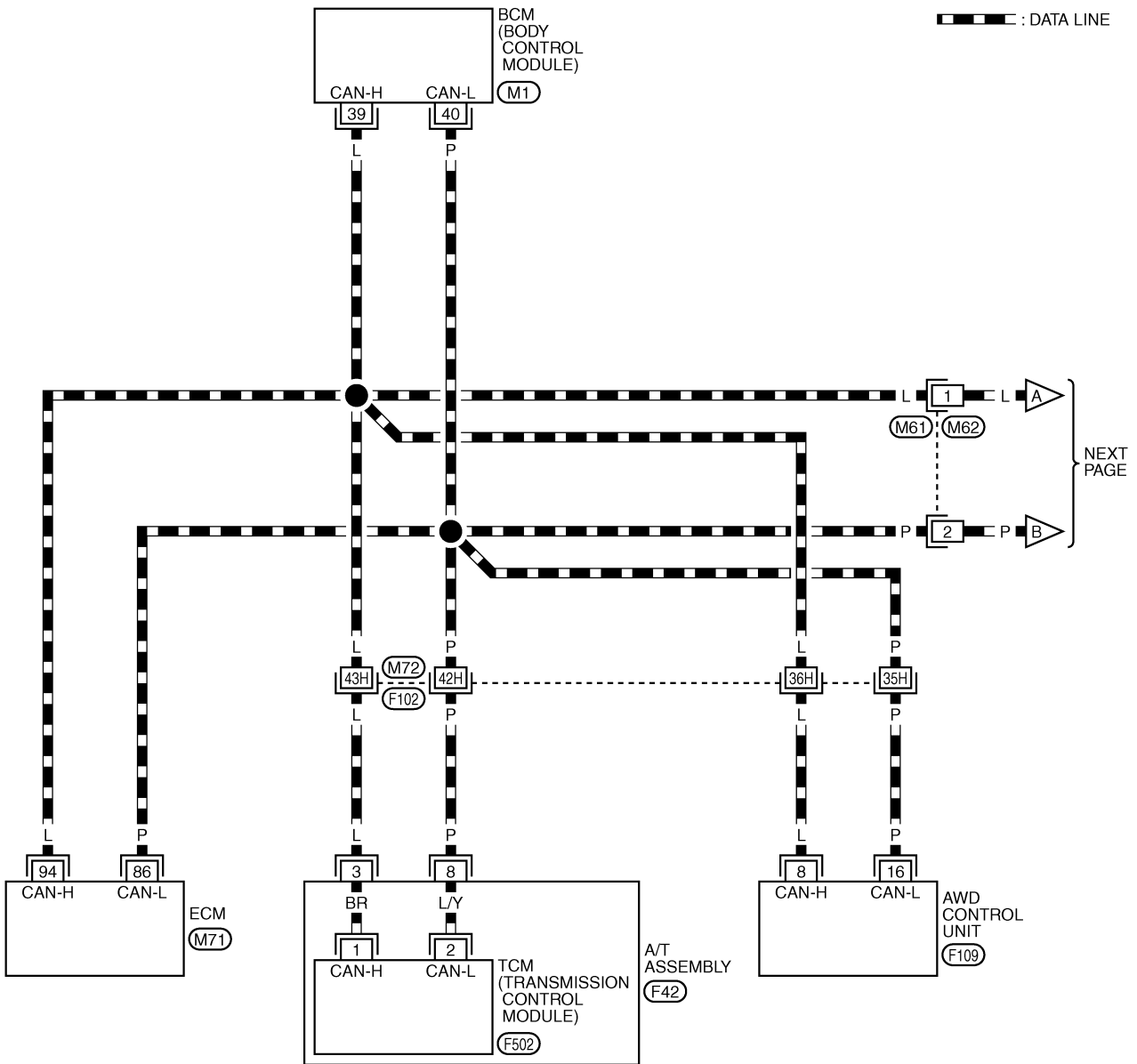
[CAN]

## Wiring Diagram — CAN —

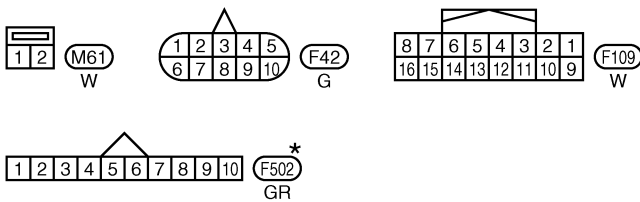
NKS0044T

### LAN-CAN-39

▬ : DATA LINE



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REFER TO THE FOLLOWING.  
 (F102) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

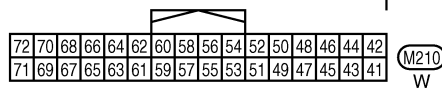
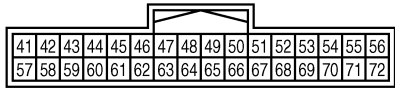
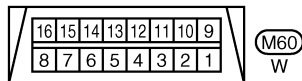
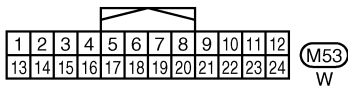
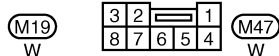
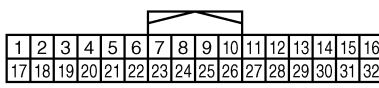
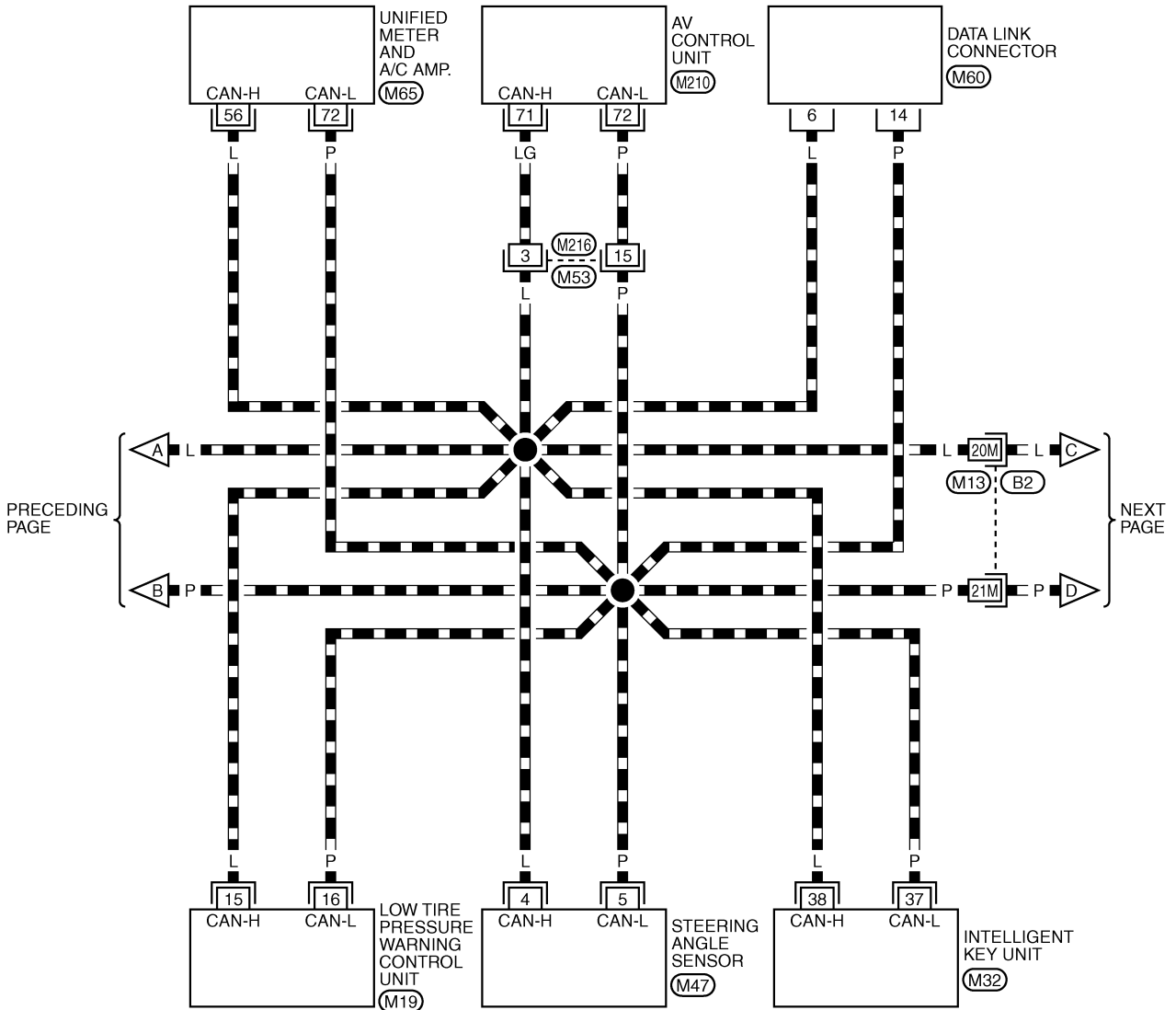
TKWT3296E

# CAN SYSTEM (TYPE 11)

[CAN]

## LAN-CAN-40

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

TKWT3297E

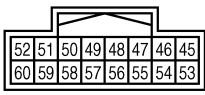
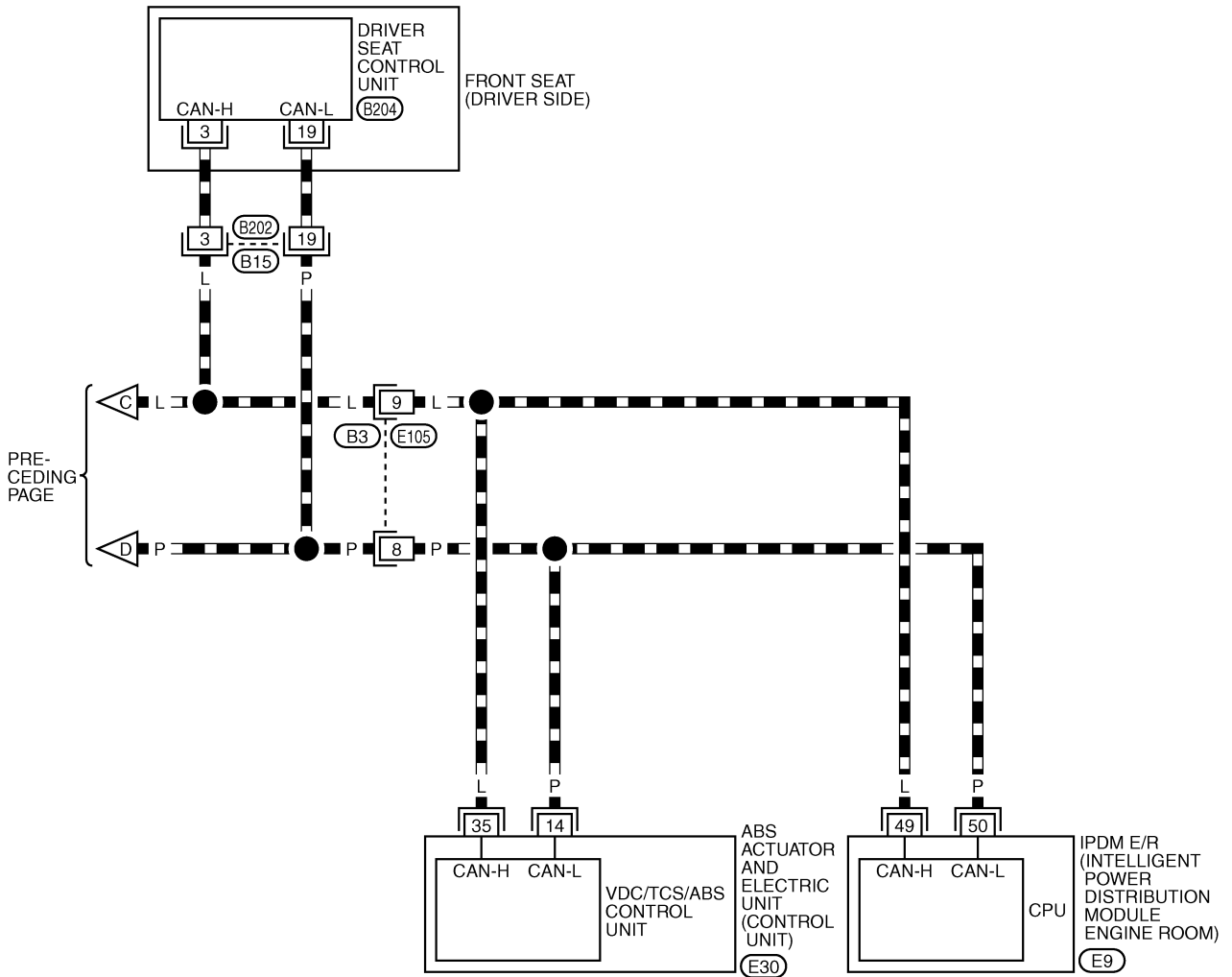


# CAN SYSTEM (TYPE 11)

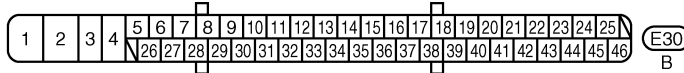
[CAN]

## LAN-CAN-41

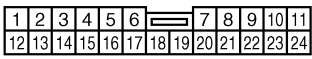
▬ : DATA LINE



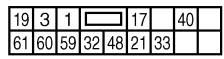
E9  
W



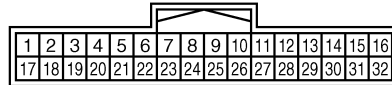
E30  
B



B3  
W



B15  
W



B204  
W



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3298E

# CAN SYSTEM (TYPE 11)

[CAN]

## Check Sheet

NKS0044U

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8519E

# CAN SYSTEM (TYPE 11)

[CAN]

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ALL MODE AWD/4WD  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9567E

# CAN SYSTEM (TYPE 11)

[CAN]

Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ALL MODE AWD/4WD  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9568E

# CAN SYSTEM (TYPE 11)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

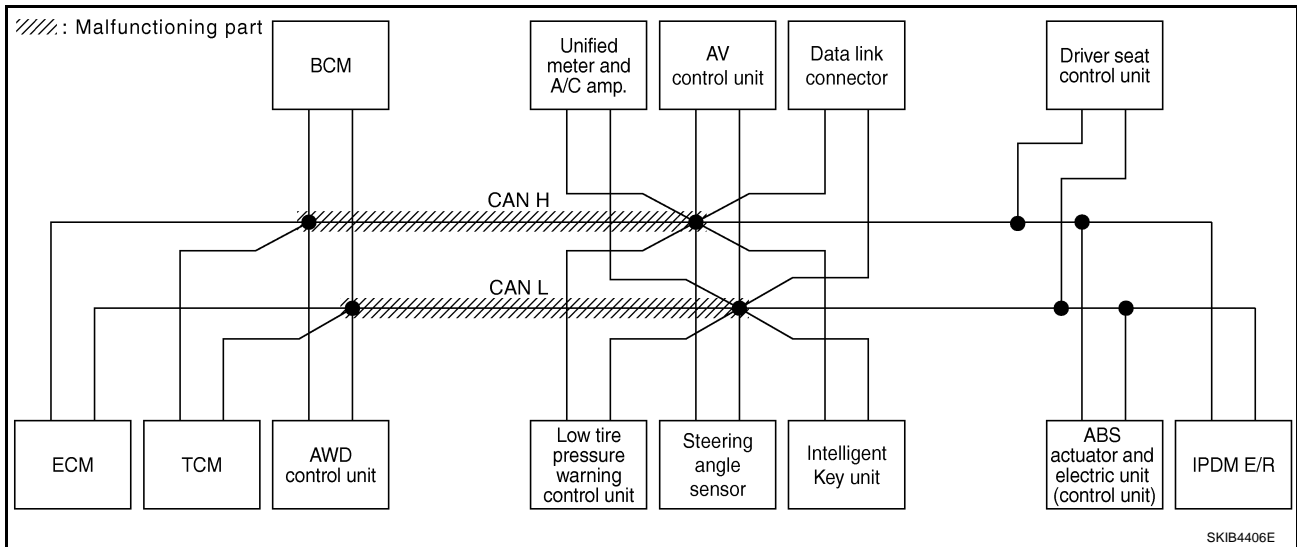
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-546, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8520E



SKIB4406E

# CAN SYSTEM (TYPE 11)

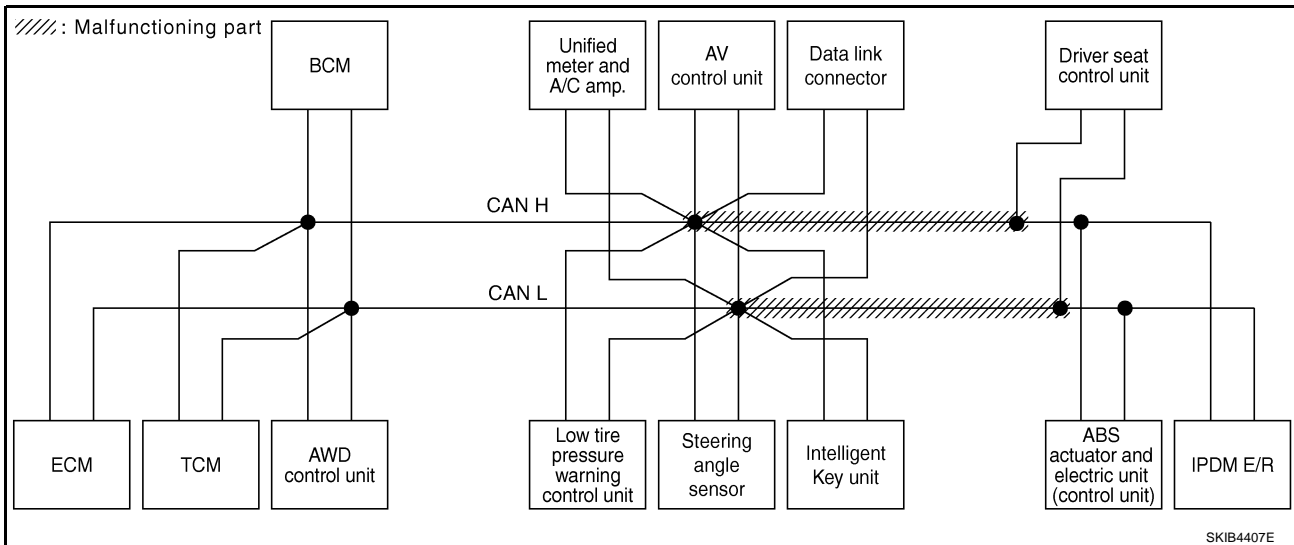
[CAN]

## Case 2

Check harness between data link connector and driver seat control unit. Refer to [LAN-547, "Inspection Between Data Link Connector and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	✓	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8521E



SKIB4407E

# CAN SYSTEM (TYPE 11)

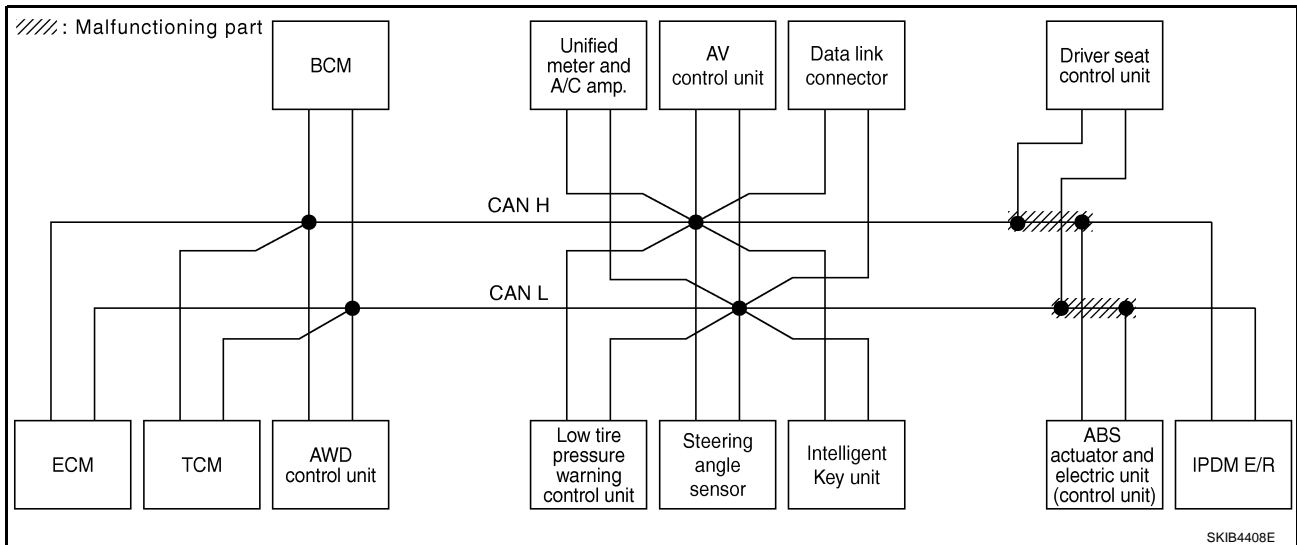
[CAN]

## Case 3

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-548, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R					
ENGINE	—	—	UNKW	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	UNKW	✓	✓	✓	✓
A/T	—	NG	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	✓	—	✓	—
ALL MODE AWD/4WD	—	NG	UNKW	UNKW	—	—	—	—	—	—	UNKW	—	UNKW	—	✓	—	✓	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	—	✓	—	✓
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	✓	—	✓	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	UNKW	—	UNKW	—	✓	✓	✓	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	—	✓	—	✓	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	UNKW	—	—	UNKW	—	✓	—	✓
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	UNKW	—	—	—	—	—	—	—
ABS	—	NG	UNKW	✓	✓	✓	—	—	✓	—	—	—	—	—	—	—	—	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	—	—	—

PKIB8522E



SKIB4408E

# CAN SYSTEM (TYPE 11)

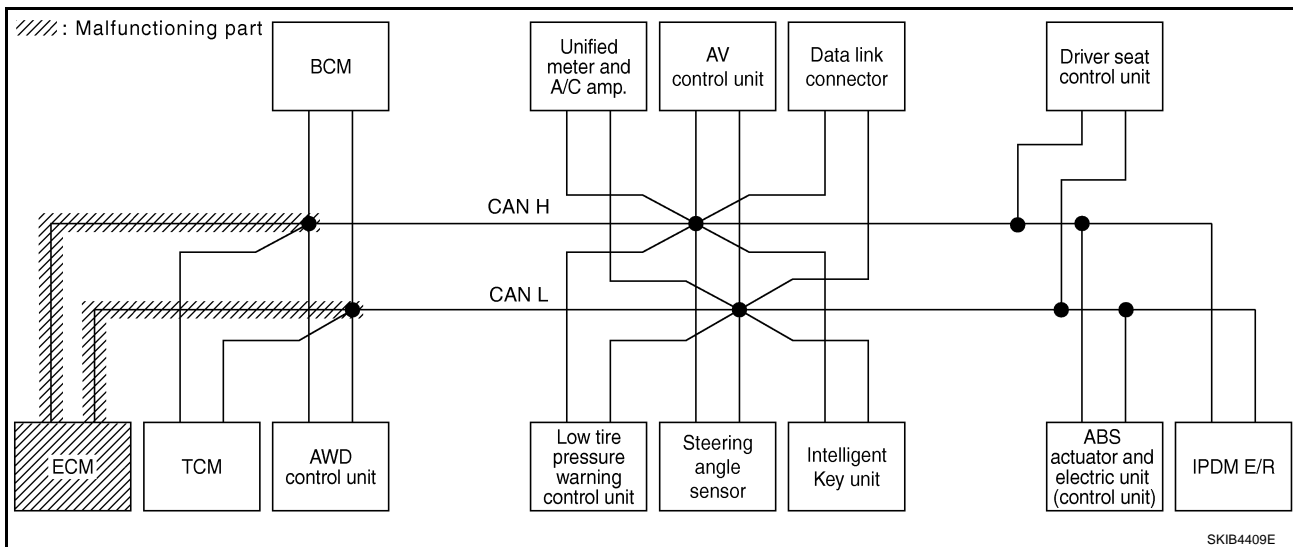
[CAN]

## Case 4

Check ECM circuit. Refer to [LAN-549, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8523E



SKIB4409E



# CAN SYSTEM (TYPE 11)

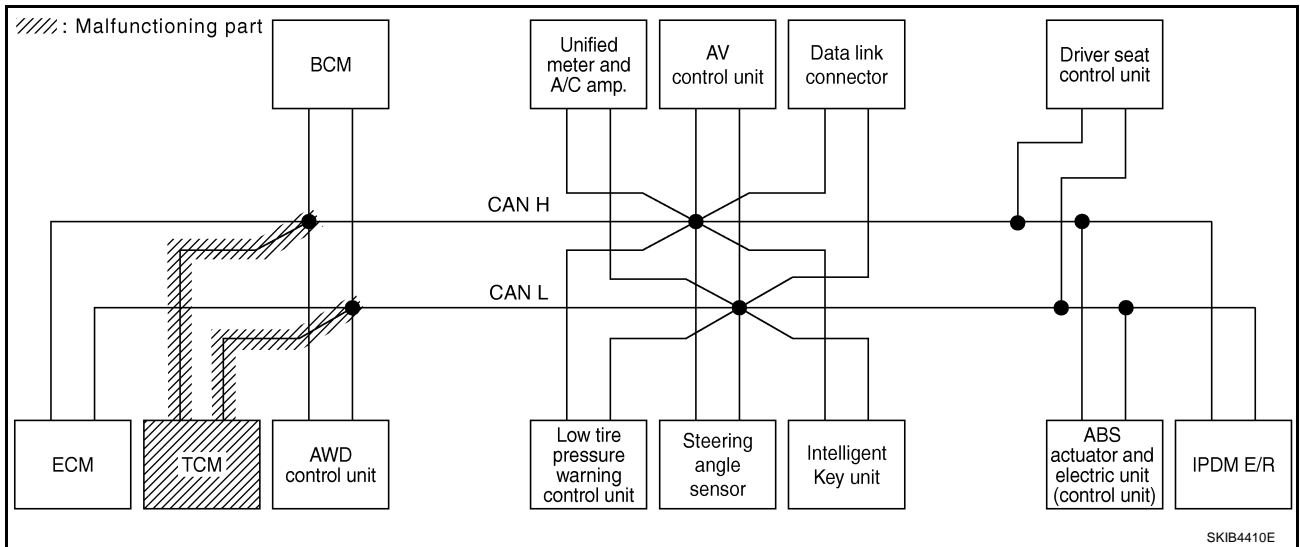
[CAN]

## Case 5

Check TCM circuit. Refer to [LAN-549, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8524E



# CAN SYSTEM (TYPE 11)

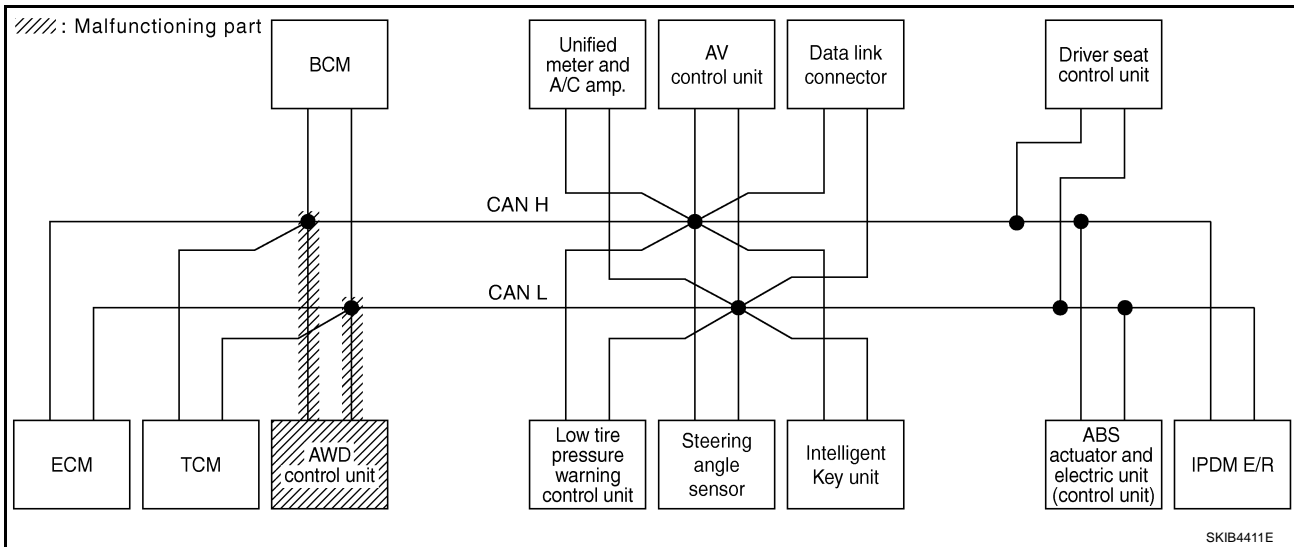
[CAN]

## Case 6

Check AWD control unit circuit. Refer to [LAN-550, "AWD Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)		
ENGINE	—	—	UNKWN	—	UNKWN	✓	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	✓	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	✓	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	✓	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	✓	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8525E



SKIB4411E

# CAN SYSTEM (TYPE 11)

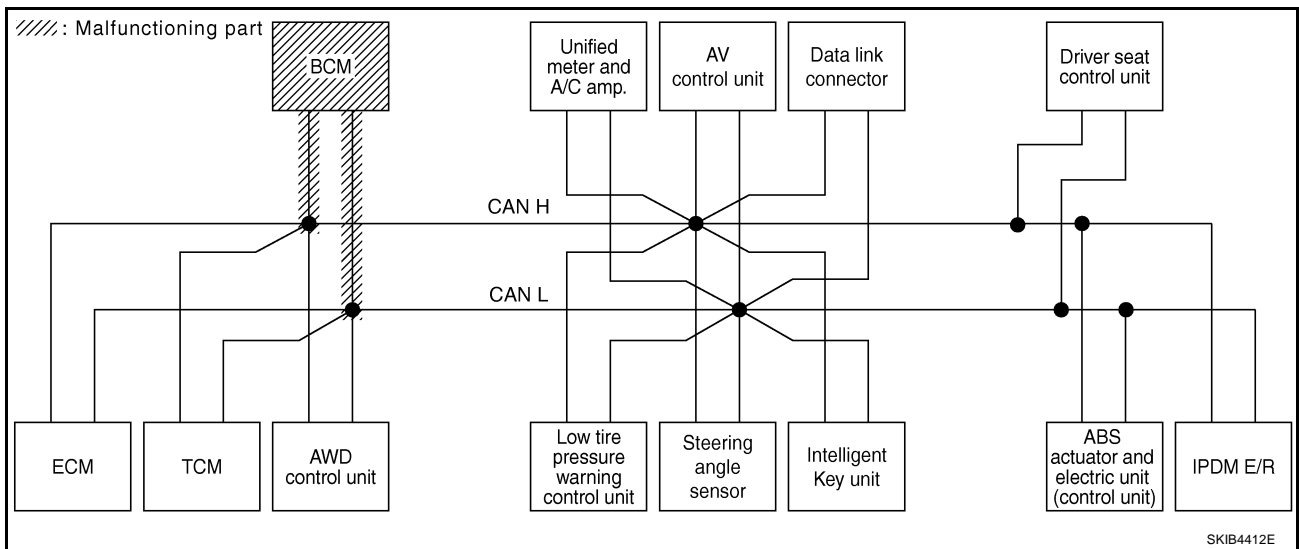
[CAN]

## Case 7

Check BCM circuit. Refer to [LAN-550, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8526E



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# CAN SYSTEM (TYPE 11)

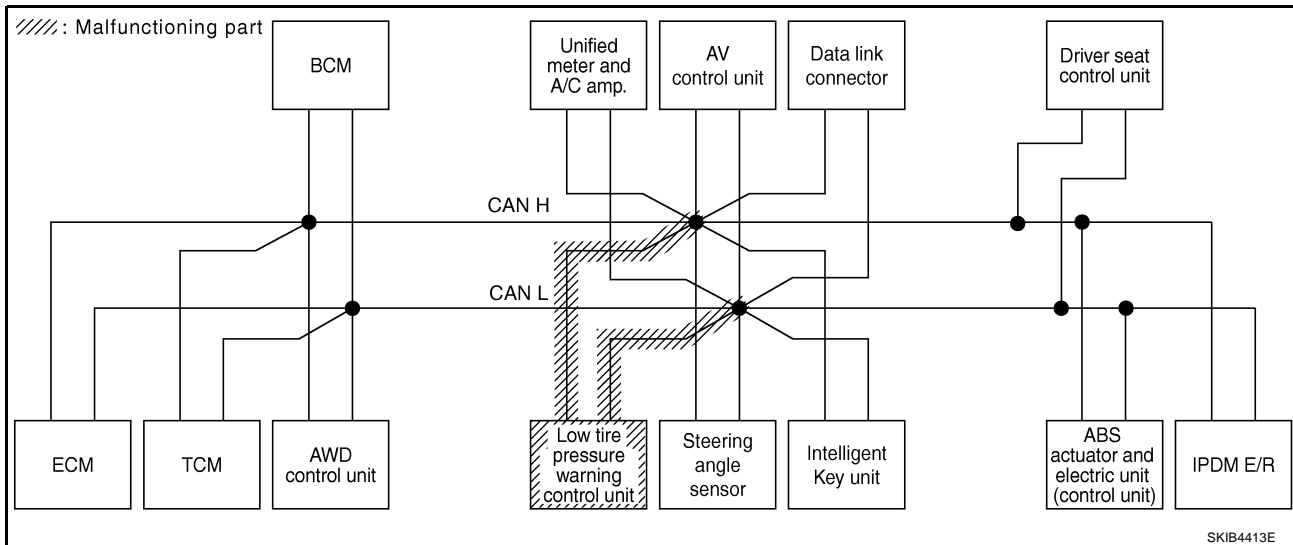
[CAN]

## Case 8

Check low tire pressure warning control unit circuit. Refer to [LAN-551, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8527E



SKIB4413E

# CAN SYSTEM (TYPE 11)

[CAN]

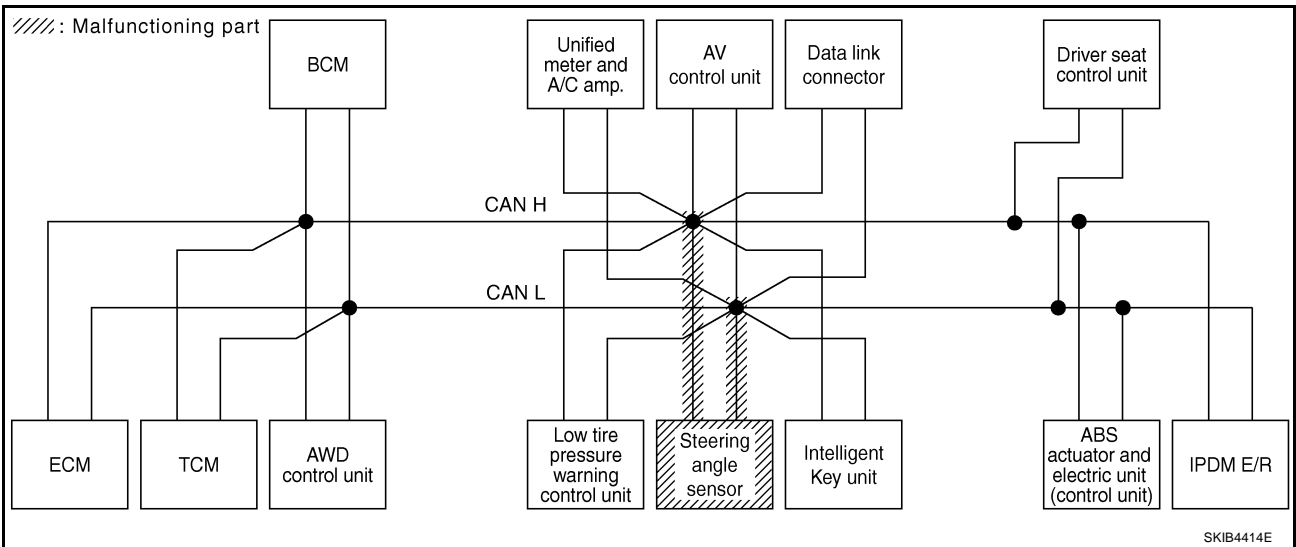
## Case 9

Check steering angle sensor circuit. Refer to [LAN-551, "Steering Angle Sensor Circuit Inspection"](#) .

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SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8528E



SKIB4414E

# CAN SYSTEM (TYPE 11)

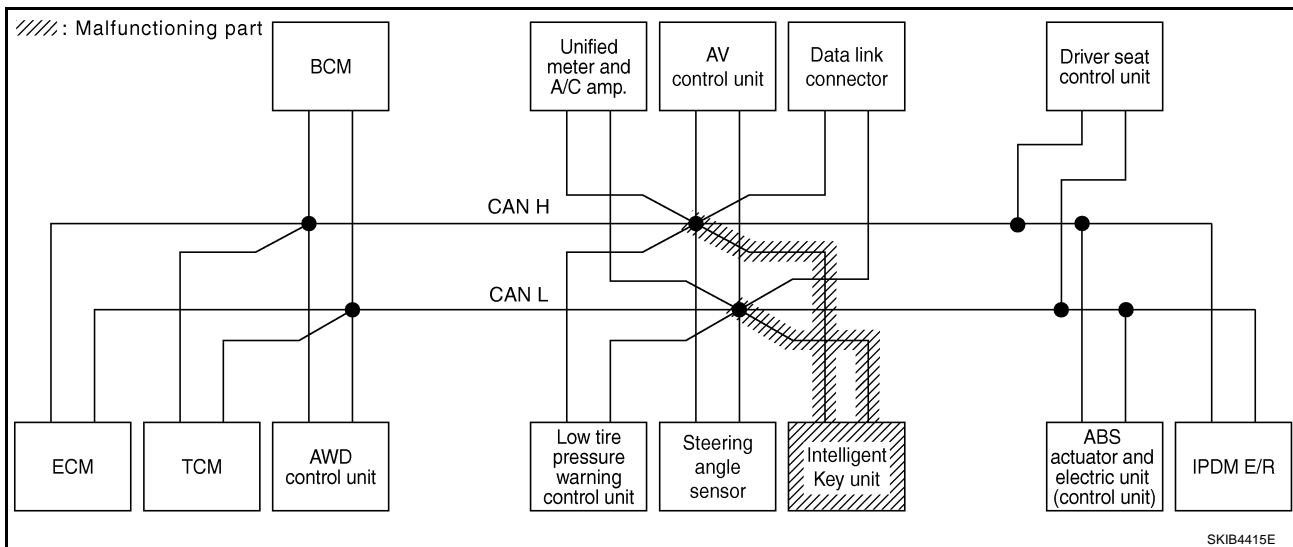
[CAN]

## Case 10

Check Intelligent Key unit circuit. Refer to [LAN-552, "Intelligent Key Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	✓	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	✓	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8529E



SKIB4415E

# CAN SYSTEM (TYPE 11)

[CAN]

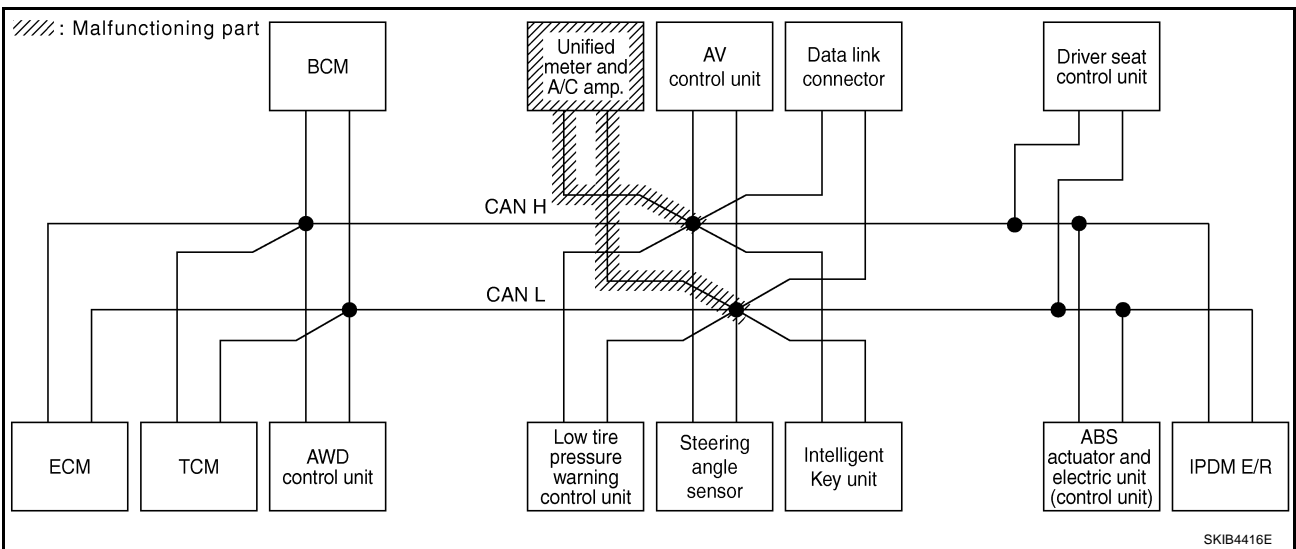
## Case 11

Check unified meter and A/C amp. circuit. Refer to [LAN-552, "Unified Meter and A/C Amp. Circuit Inspection"](#).

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SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8530E



SKIB4416E

# CAN SYSTEM (TYPE 11)

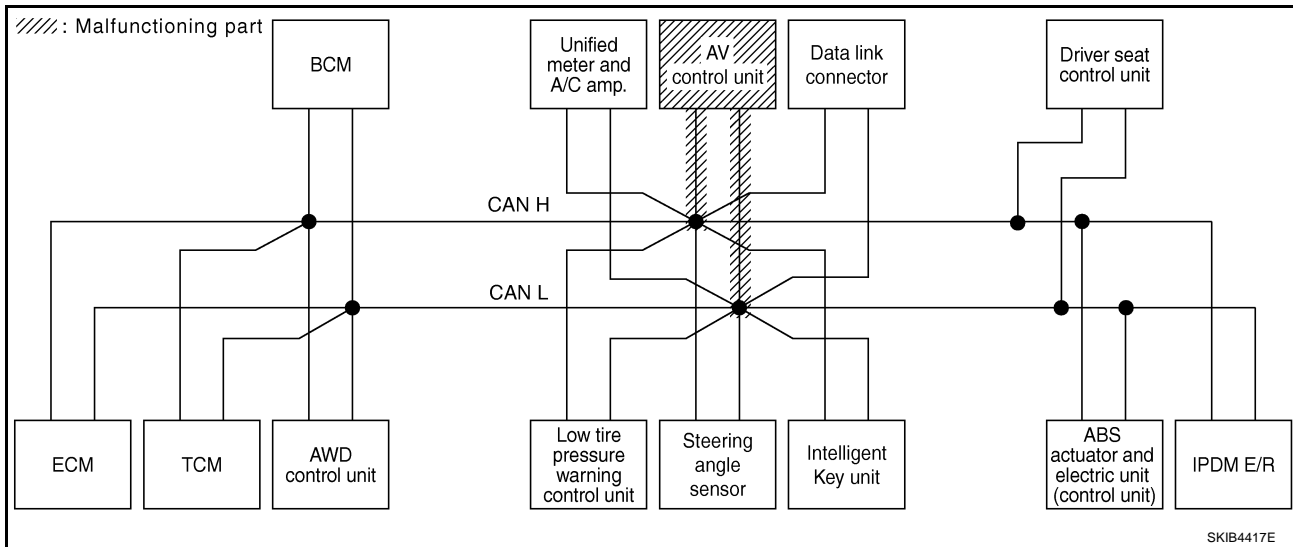
[CAN]

## Case 12

Check AV control unit circuit. Refer to [LAN-553, "AV Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	✓	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	✓	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8531E



SKIB4417E



# CAN SYSTEM (TYPE 11)

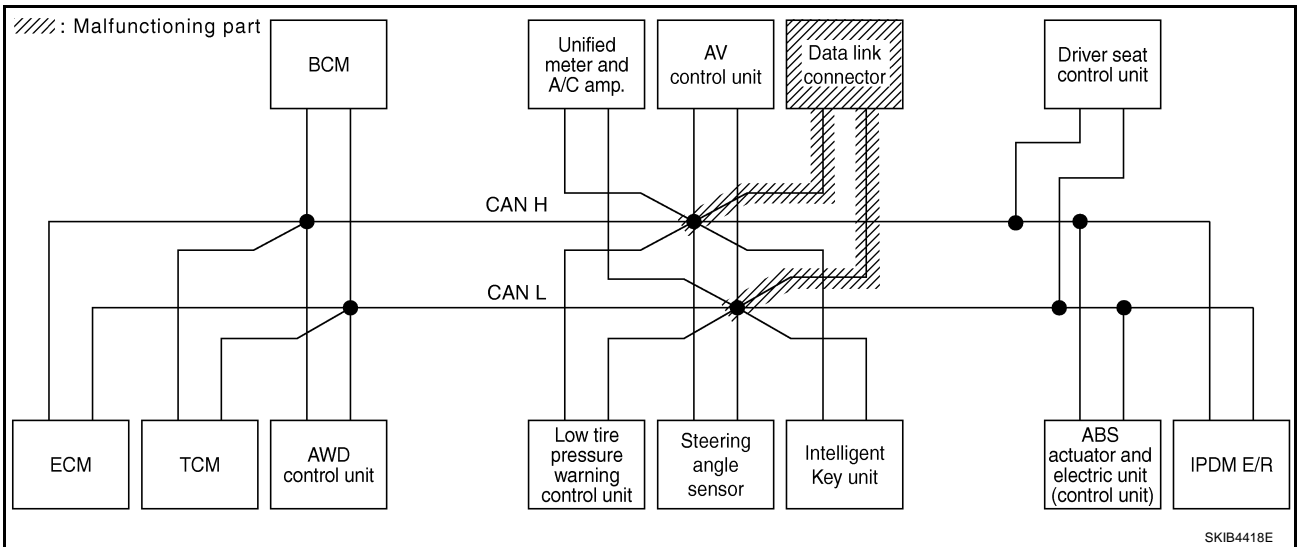
[CAN]

## Case 13

Check data link connector circuit. Refer to [LAN-553, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8532E



# CAN SYSTEM (TYPE 11)

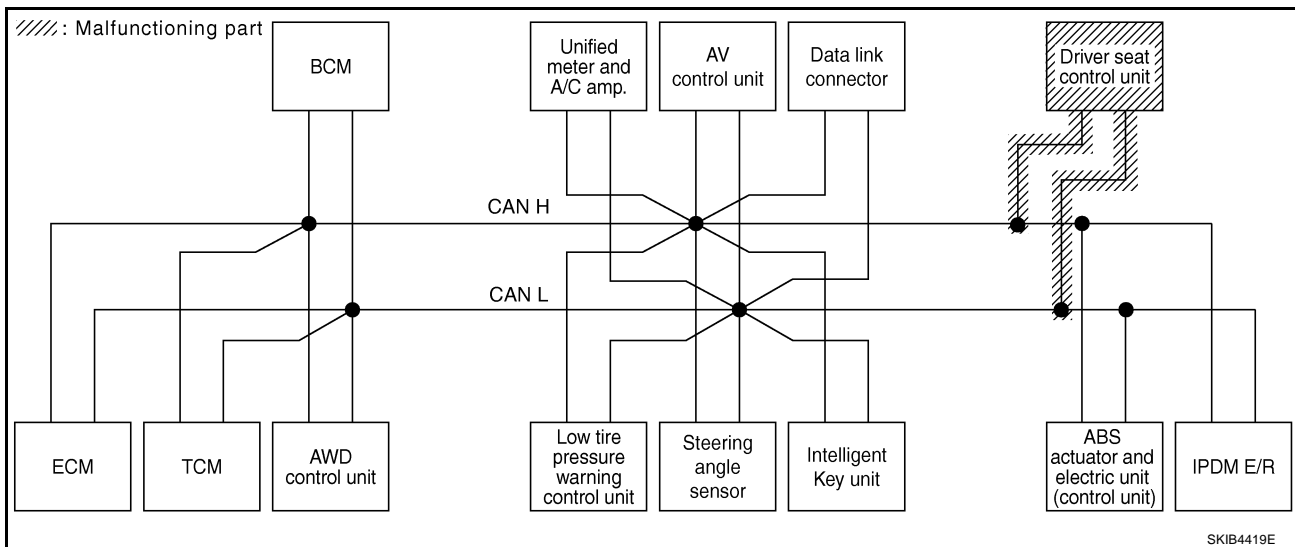
[CAN]

## Case 14

Check driver seat control unit circuit. Refer to [LAN-554, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8533E



SKIB4419E

# CAN SYSTEM (TYPE 11)

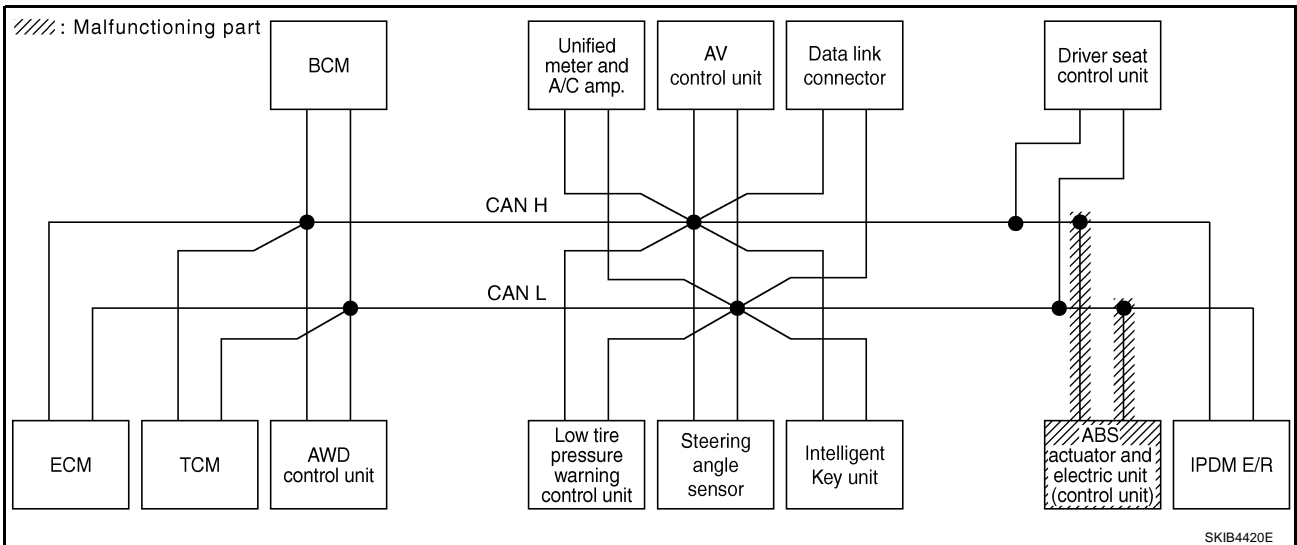
[CAN]

## Case 15

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-554, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	✓	✓	✓	✓	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8534E



SKIB4420E

# CAN SYSTEM (TYPE 11)

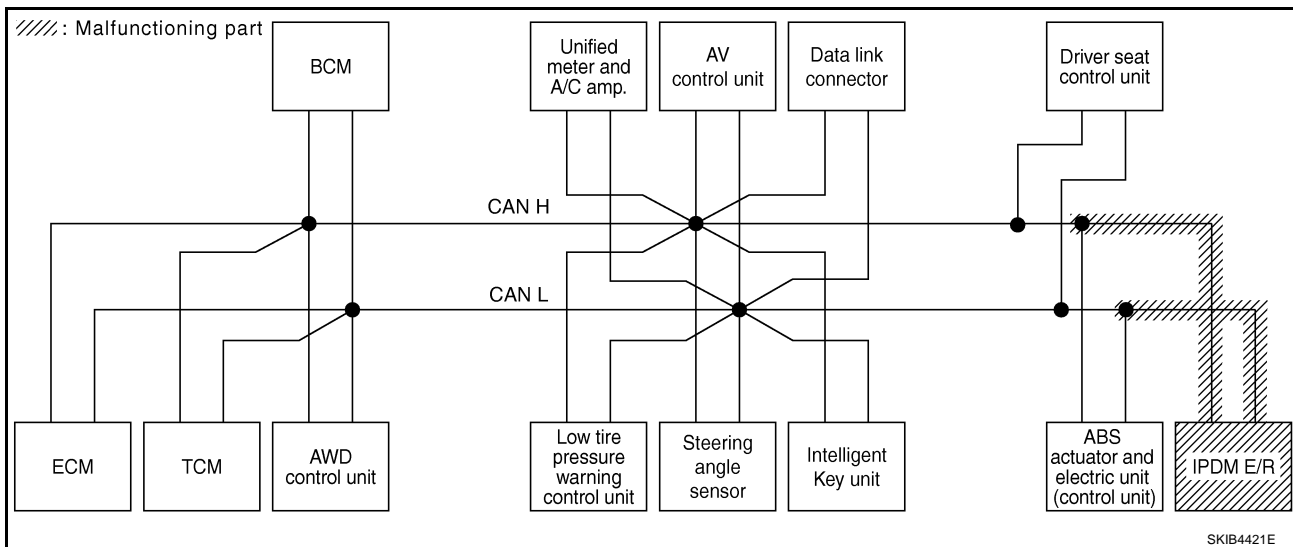
[CAN]

## Case 16

Check IPDM E/R circuit. Refer to [LAN-555, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R					
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS						
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8535E



SKIB4421E

# CAN SYSTEM (TYPE 11)

[CAN]

## Case 17

Check CAN communication circuit. Refer to [LAN-556, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8536E

## Case 18

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-563, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8537E

## Case 19

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-563, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	UNKWN	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8538E

## Inspection Between TCM and Data Link Connector Circuit

NKS0044V

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

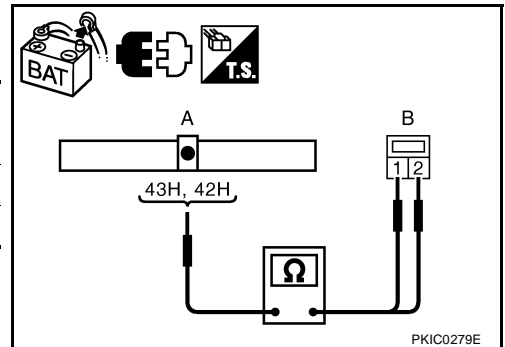
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.  
 NG >> Repair harness.



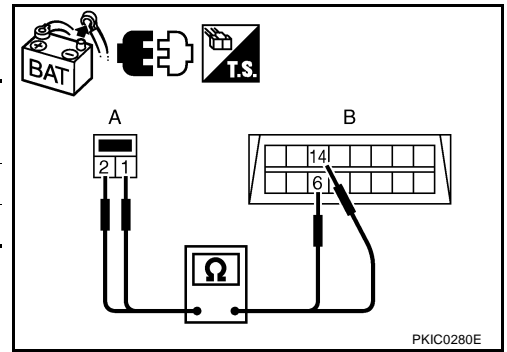
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and Driver Seat Control Unit Circuit

NKS0044W

#### 1. CHECK CONNECTOR

- Turn ignition switch OFF.
- Disconnect the battery cable from the negative terminal.
- Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

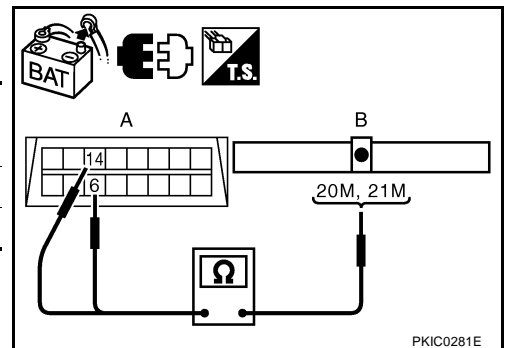
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect harness connector M13.
- Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



## 3. CHECK HARNESS FOR OPEN CIRCUIT

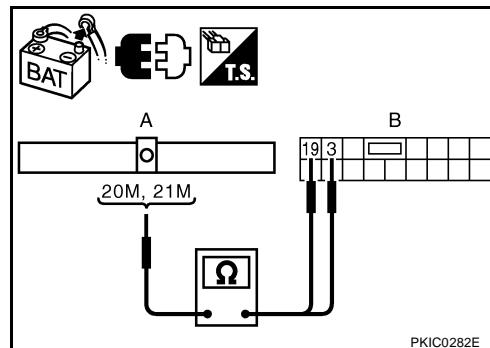
1. Disconnect harness connector B15.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B15	3	Yes
	21M		19	Yes

**OK or NG**

OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).

NG >> Repair harness.



## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS0044X

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

OK >> GO TO 2.

NG >> Repair terminal or connector.

### 2. CHECK HARNESS FOR OPEN CIRCUIT

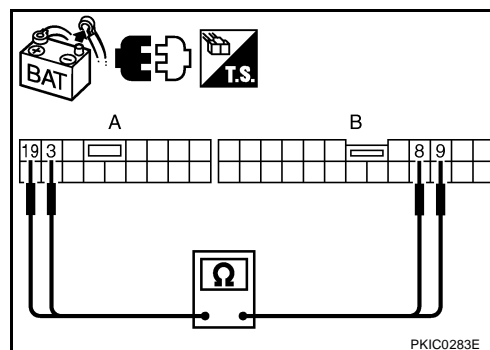
1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

OK >> GO TO 3.

NG >> Repair harness.





## 3. CHECK HARNESS FOR OPEN CIRCUIT

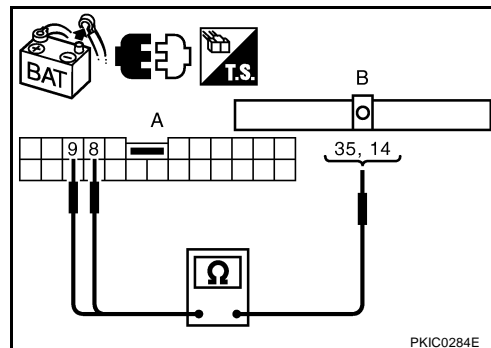
1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

**OK or NG**

OK >> Connect all the connectors and diagnose again. Refer to [LAN-9. "TROUBLE DIAGNOSES WORK FLOW"](#).

NG >> Repair harness.



## ECM Circuit Inspection

NKS0044Y

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

OK >> GO TO 2.

NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

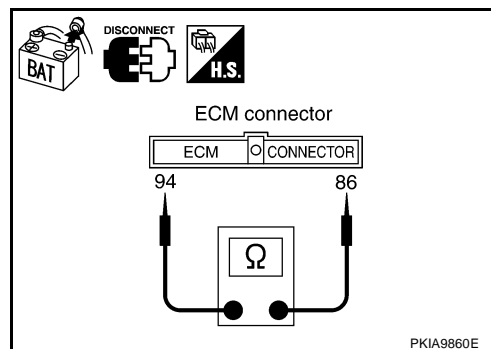
1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

**OK or NG**

OK >> Replace ECM.

NG >> Repair harness between ECM and A/T assembly.



LAN

## TCM Circuit Inspection

NKS0044Z

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

OK >> GO TO 2.

NG >> Repair terminal or connector.

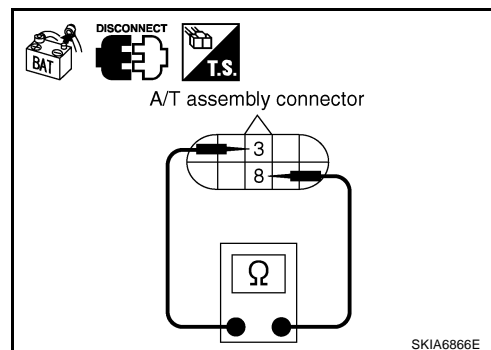
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.  
 NG >> Repair harness between A/T assembly and AWD control unit.



NKS00450

## AWD Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AWD control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

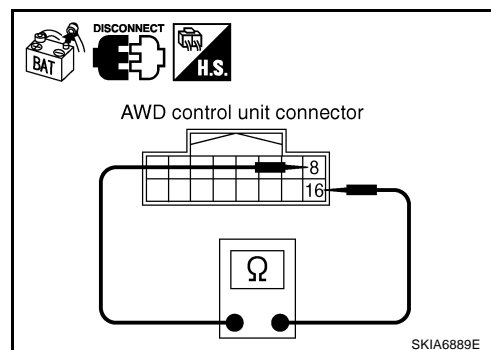
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector terminals.

AWD control unit connector	Terminal		Resistance (Approx.)
F109	8	16	54 – 66 Ω

**OK or NG**

- OK >> Replace AWD control unit.  
 NG >> Repair harness between AWD control unit and BCM.



NKS00451

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

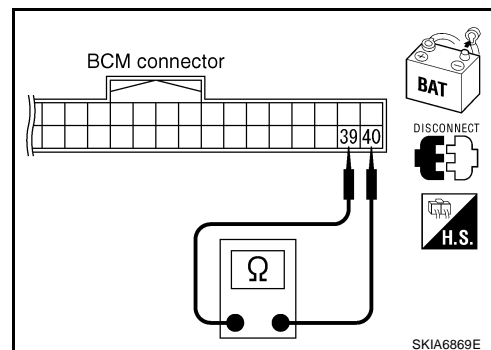
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

### OK or NG

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

NKS00452

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

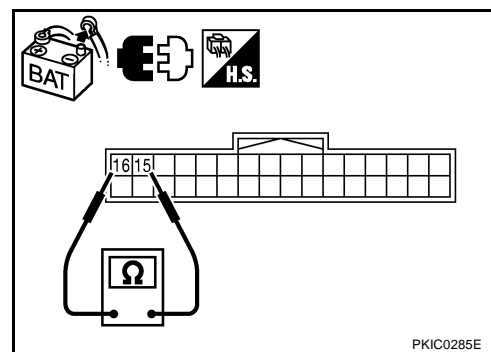
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

### OK or NG

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS00453

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

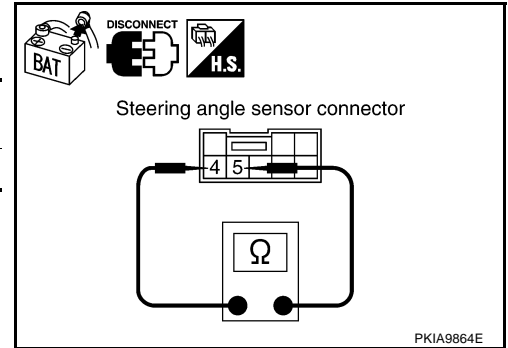
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
	4	5	
M47	4	5	54 – 66 Ω

**OK or NG**

- OK >> Replace steering angle sensor.  
 NG >> Repair harness between steering angle sensor and data link connector.



NKS00454

## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

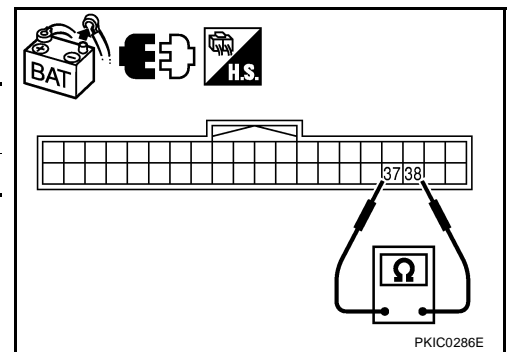
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
	38	37	
M32	38	37	54 – 66 Ω

**OK or NG**

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS00455

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

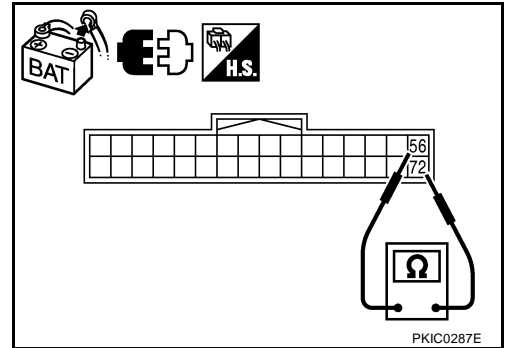
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
M65	56	72	54 – 66 Ω

**OK or NG**

- OK >> Replace unified meter and A/C amp.
- NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS00456

## AV Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AV control unit connector
  - Harness connector M216
  - Harness connector M53

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

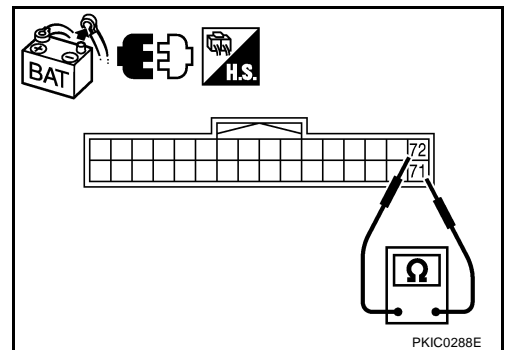
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AV control unit connector.
2. Check resistance between AV control unit harness connector terminals.

AV control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

**OK or NG**

- OK >> Replace AV control unit.
- NG >> Repair harness between AV control unit and data link connector.



NKS00457

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

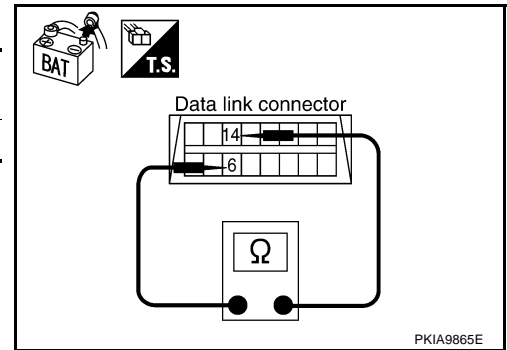
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



NKS00458

## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

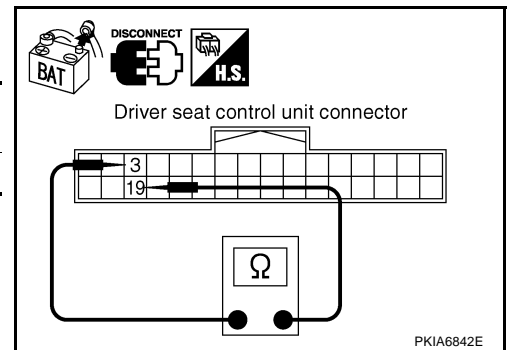
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Repair harness between driver seat control unit and harness connector B3.



NKS00459

## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

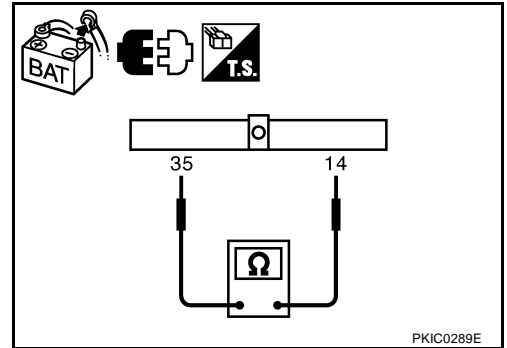
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

**OK or NG**

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



## IPDM E/R Circuit Inspection

NKS0045A

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

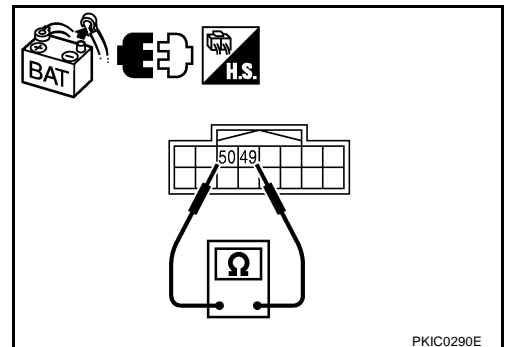
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

**OK or NG**

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R and harness connector E105.



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AWD control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
    - Between ECM and A/T assembly
    - Between ECM and AWD control unit
    - Between ECM and AV control unit
    - Between ECM and driver seat control unit
    - Between ECM and IPDM E/R

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

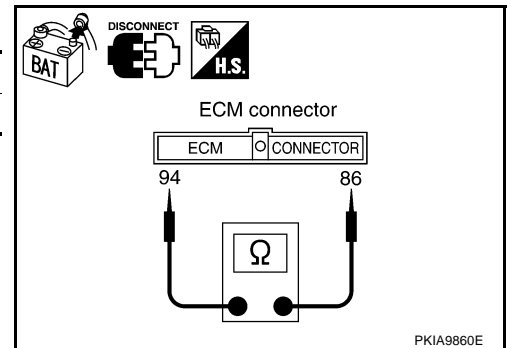
### 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

OK or NG

- OK >> GO TO 3.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61





## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

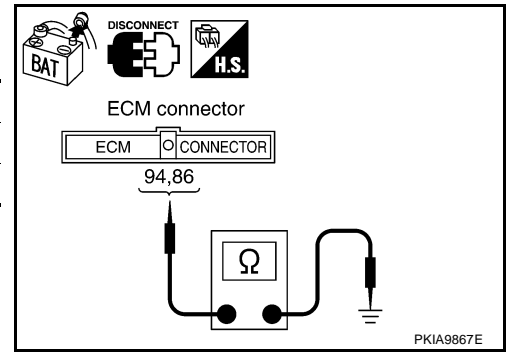
ECM connector	Terminal	Ground	Continuity
M71	94		No
	86	No	

### OK or NG

OK >> GO TO 4.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between ECM and harness connector M72
- Harness between ECM and BCM
- Harness between ECM and harness connector M61



## 4. CHECK HARNESS FOR SHORT CIRCUIT

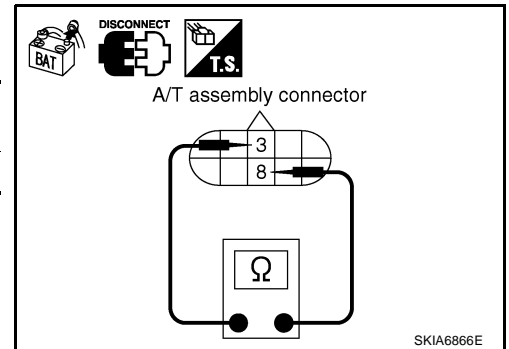
1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

### OK or NG

OK >> GO TO 5.

NG >> Repair harness between A/T assembly and harness connector F102.



## 5. CHECK HARNESS FOR SHORT CIRCUIT

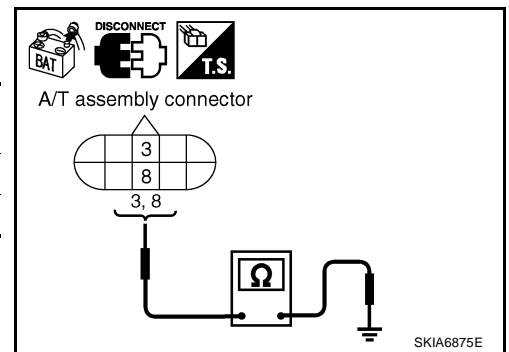
Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		No
	8	No	

### OK or NG

OK >> GO TO 6.

NG >> Repair harness between A/T assembly and harness connector F102.



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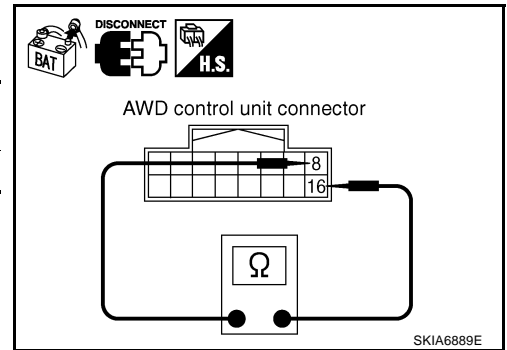
**6. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect AWD control unit connector.
2. Check continuity between AWD control unit harness connector terminals.

AWD control unit connector	Terminal		Continuity
	8	16	
F109	8	16	No

**OK or NG**

- OK >> GO TO 7.  
 NG >> Repair harness between AWD control unit and harness connector F102.



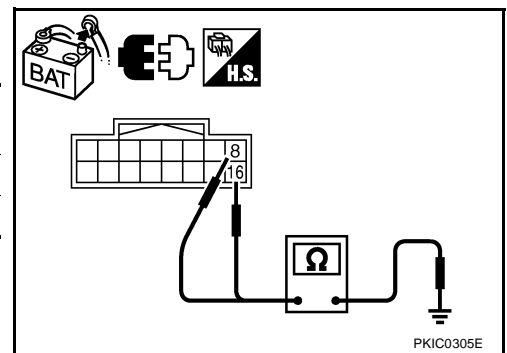
**7. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between AWD control unit harness connector terminals and ground.

AWD control unit connector	Terminal	Ground	Continuity
	F109		8
	16	No	

**OK or NG**

- OK >> GO TO 8.  
 NG >> Replace harness between AWD control unit and harness connector F102.



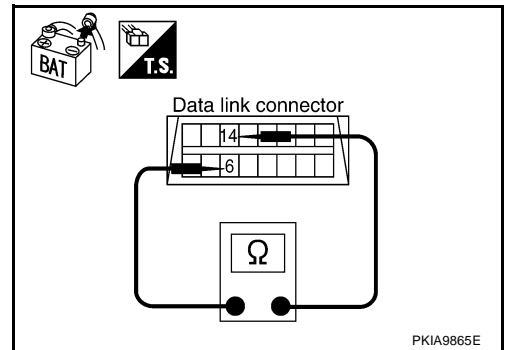
**8. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

Data link connector	Terminal		Continuity
M60	6	14	No

**OK or NG**

- OK >> GO TO 9.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



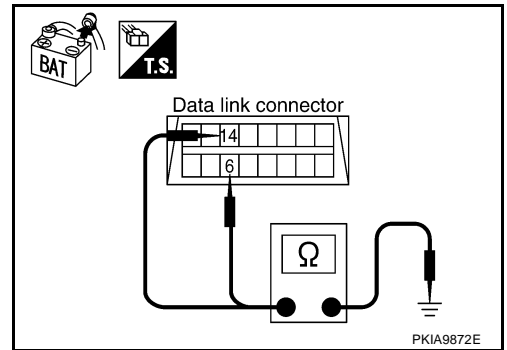
**9. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between data link connector terminals and ground.

Data link connector	Terminal	Ground	Continuity
M60	6		No
	14	No	

**OK or NG**

- OK >> GO TO 10.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



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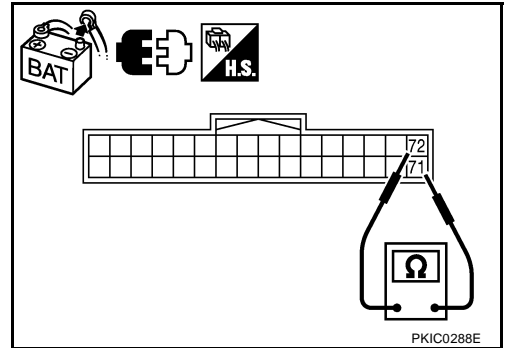
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect AV control unit connector.
2. Check continuity between AV control unit harness connector terminals.

AV control unit connector	Terminal		Continuity
M210	71	72	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Repair harness between AV control unit and harness connector M216.



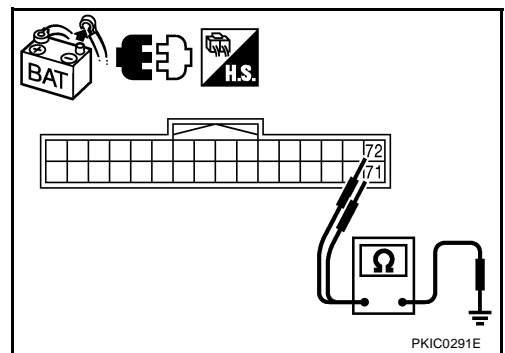
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between AV control unit harness connector terminals and ground.

AV control unit connector	Terminal	Ground	Continuity
M210	71		No
	72	No	

**OK or NG**

- OK >> GO TO 12.  
 NG >> Repair harness between AV control unit and harness connector M216.



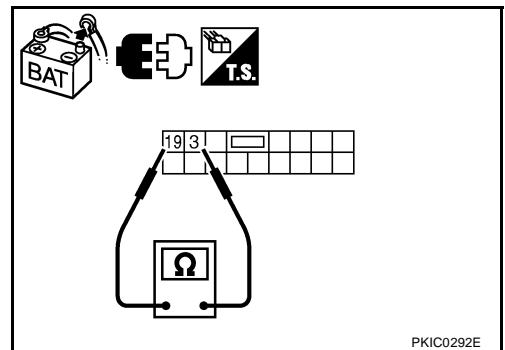
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between harness connector B15 and harness connector B2
  - Harness between harness connector B15 and harness connector B3



## 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

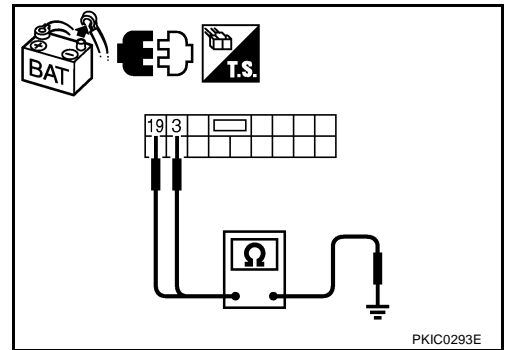
Harness connector	Terminal	Ground	Continuity
B15	3		No
	19	No	

**OK or NG**

OK >> GO TO 14.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between harness connector B15 and harness connector B2
- Harness between harness connector B15 and harness connector B3



## 14. CHECK HARNESS FOR SHORT CIRCUIT

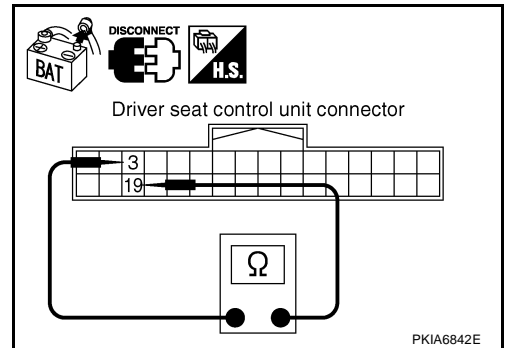
1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal	Continuity
B204	3	No
	19	

**OK or NG**

OK >> GO TO 15.

NG >> Repair harness between driver seat control unit and harness connector B202.



## 15. CHECK HARNESS FOR SHORT CIRCUIT

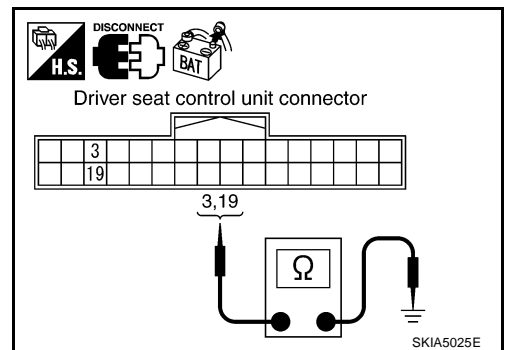
Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

**OK or NG**

OK >> GO TO 16.

NG >> Repair harness between driver seat control unit and harness connector B202.



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## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

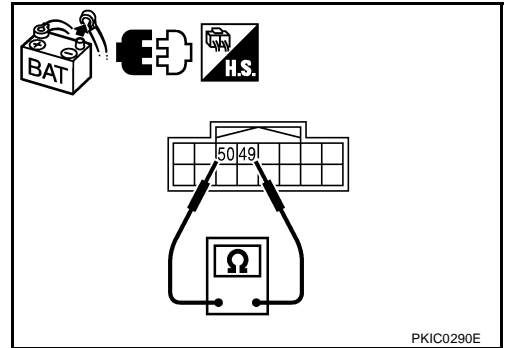
IPDM E/R connector	Terminal		Continuity
	49	50	
E9	49	50	No

### OK or NG

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0290E

## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

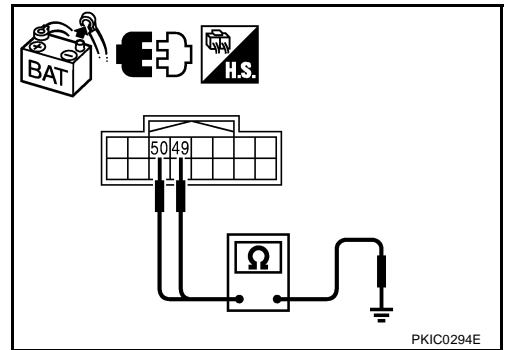
IPDM E/R connector	Terminal	Ground	Continuity
			No
E9	49	Ground	No
	50		No

### OK or NG

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0294E

## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

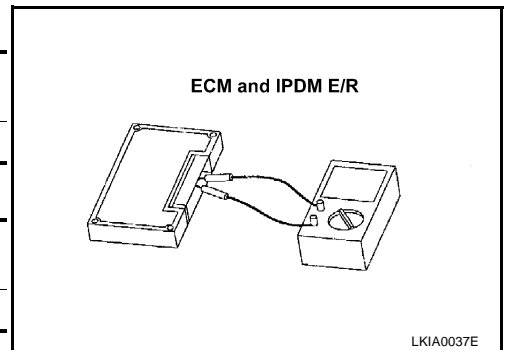
3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω

### OK or NG

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



LKIA0037E

## 19. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AWD control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

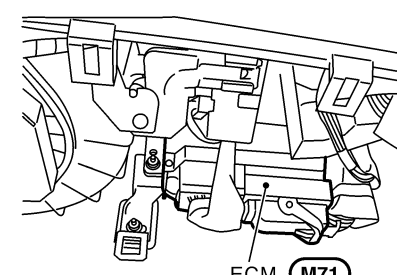
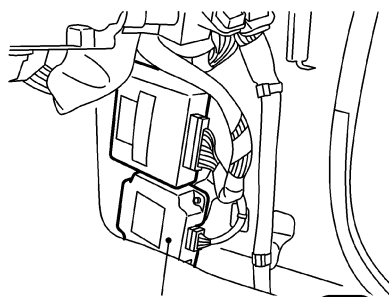
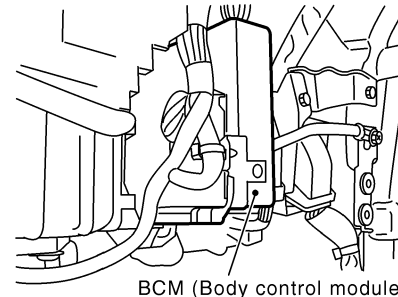
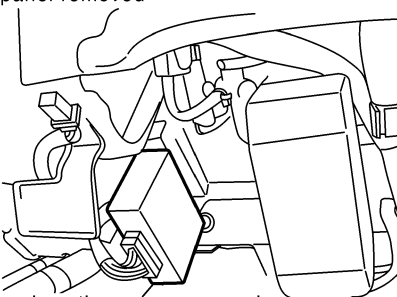
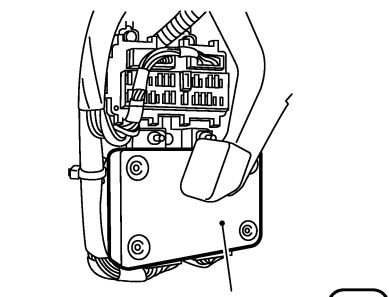
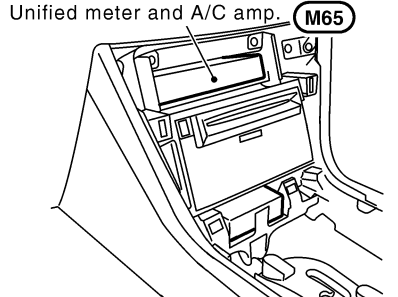
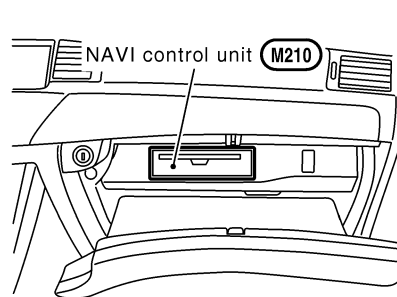
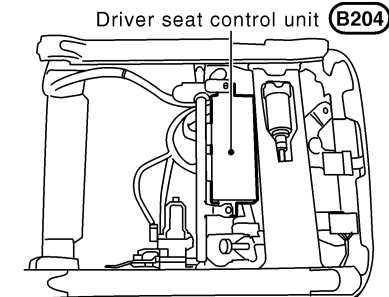
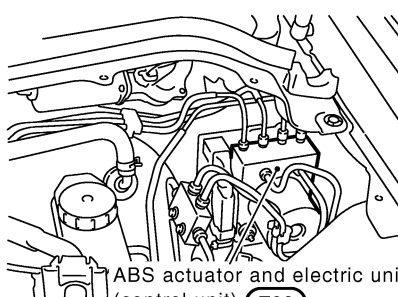
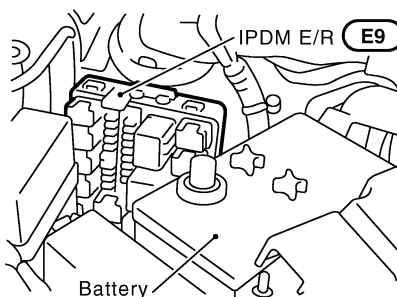
NKS0045C

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)

## CAN SYSTEM (TYPE 12)

### Component Parts and Harness Connector Location

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AWD control unit (F109)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>NAVI control unit (M210)</p>	<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>	<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>
<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9)</p> <p>Battery</p>		

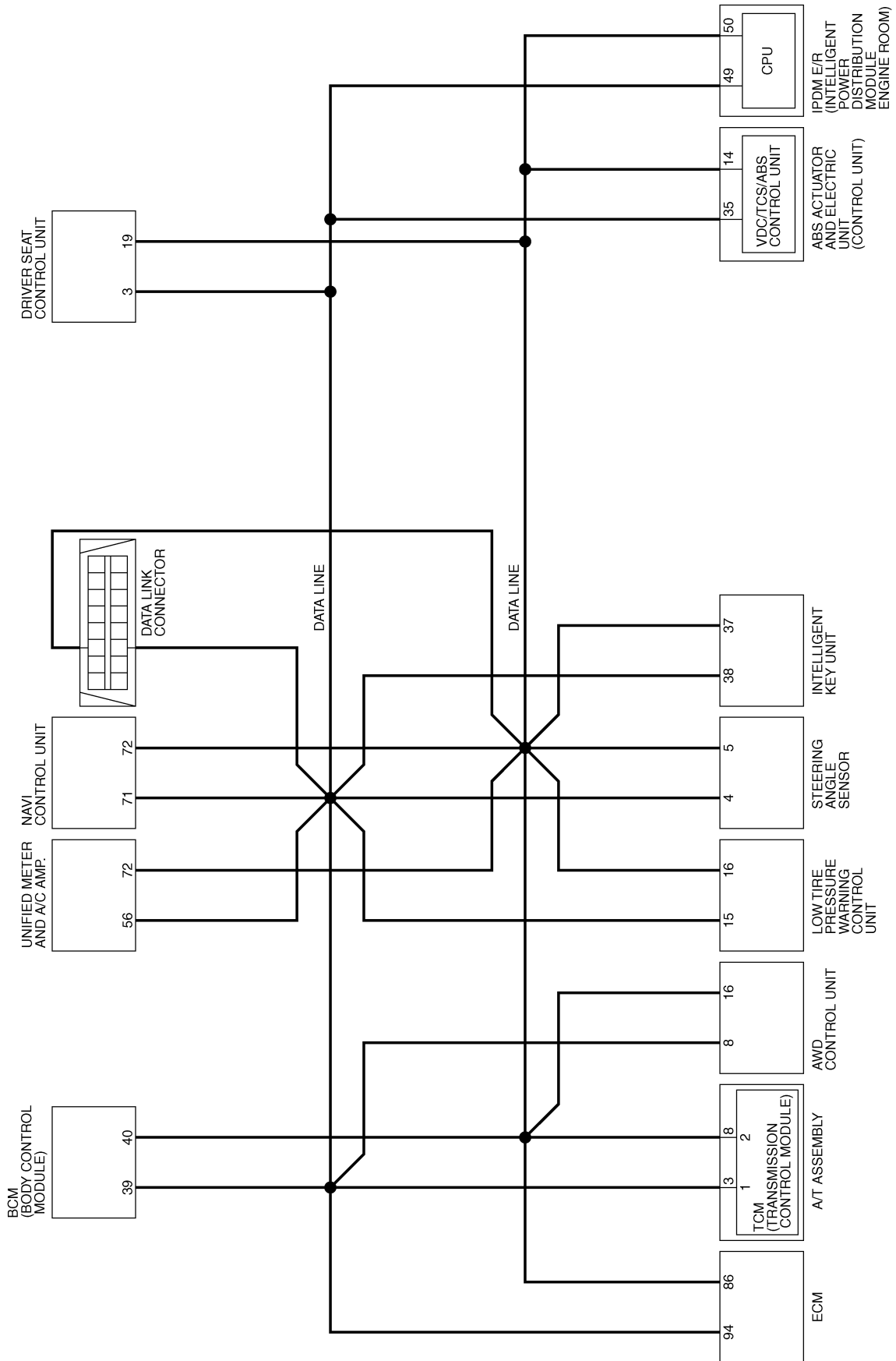


# CAN SYSTEM (TYPE 12)

[CAN]

## Schematic

NKS0045E



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TKWT3299E

# CAN SYSTEM (TYPE 12)

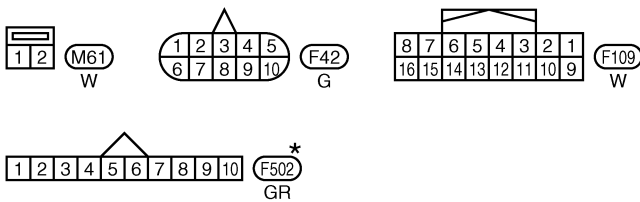
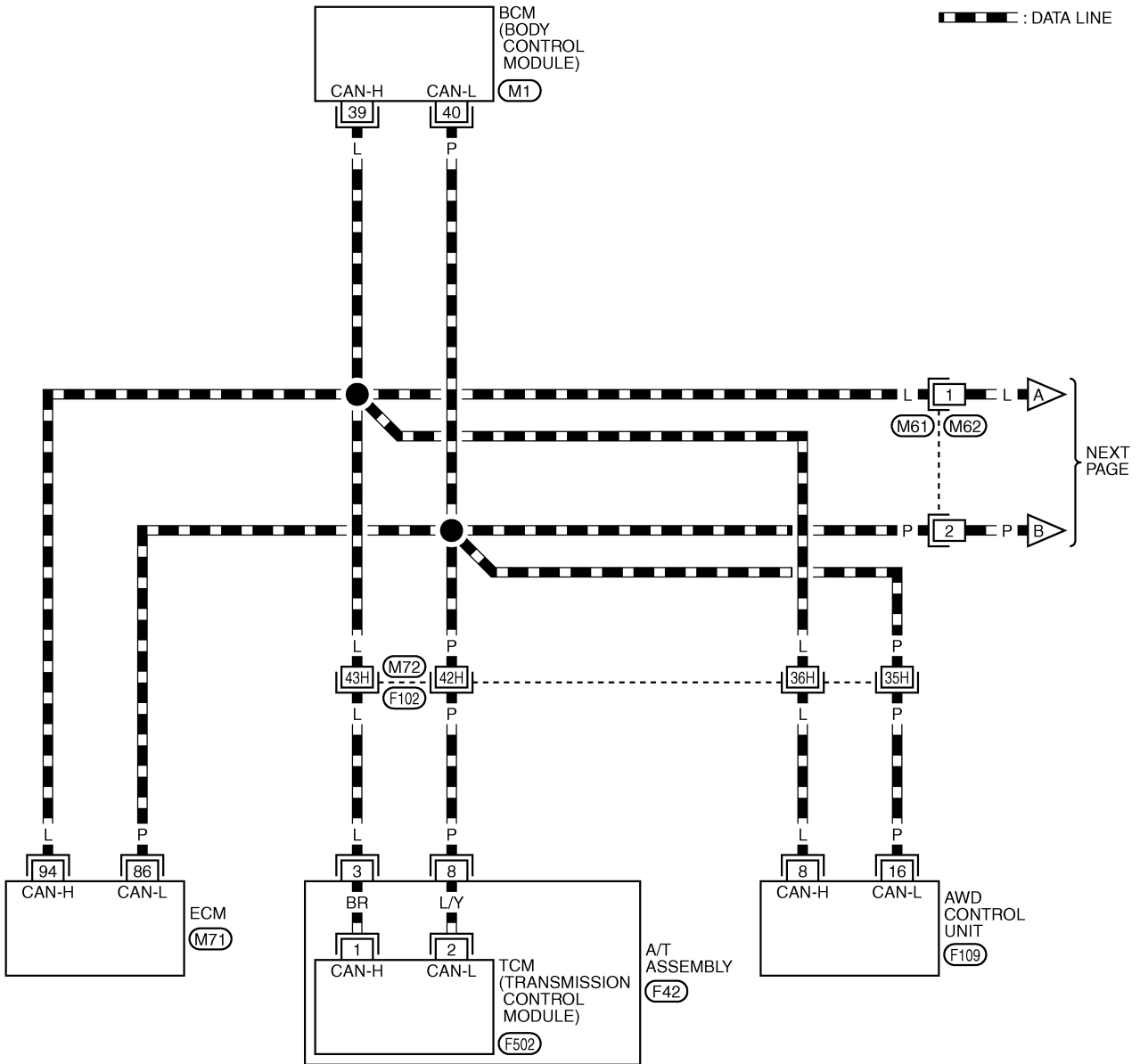
[CAN]

NKS0045F

## Wiring Diagram — CAN —

LAN-CAN-42

▬ : DATA LINE



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M1), (M71) -ELECTRICAL UNITS

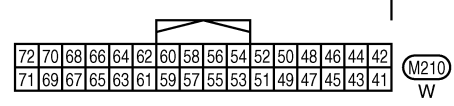
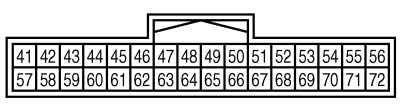
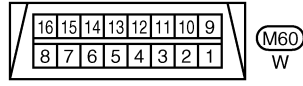
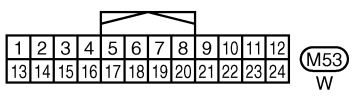
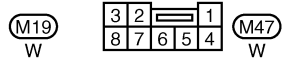
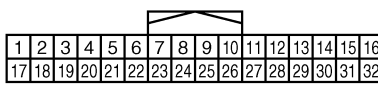
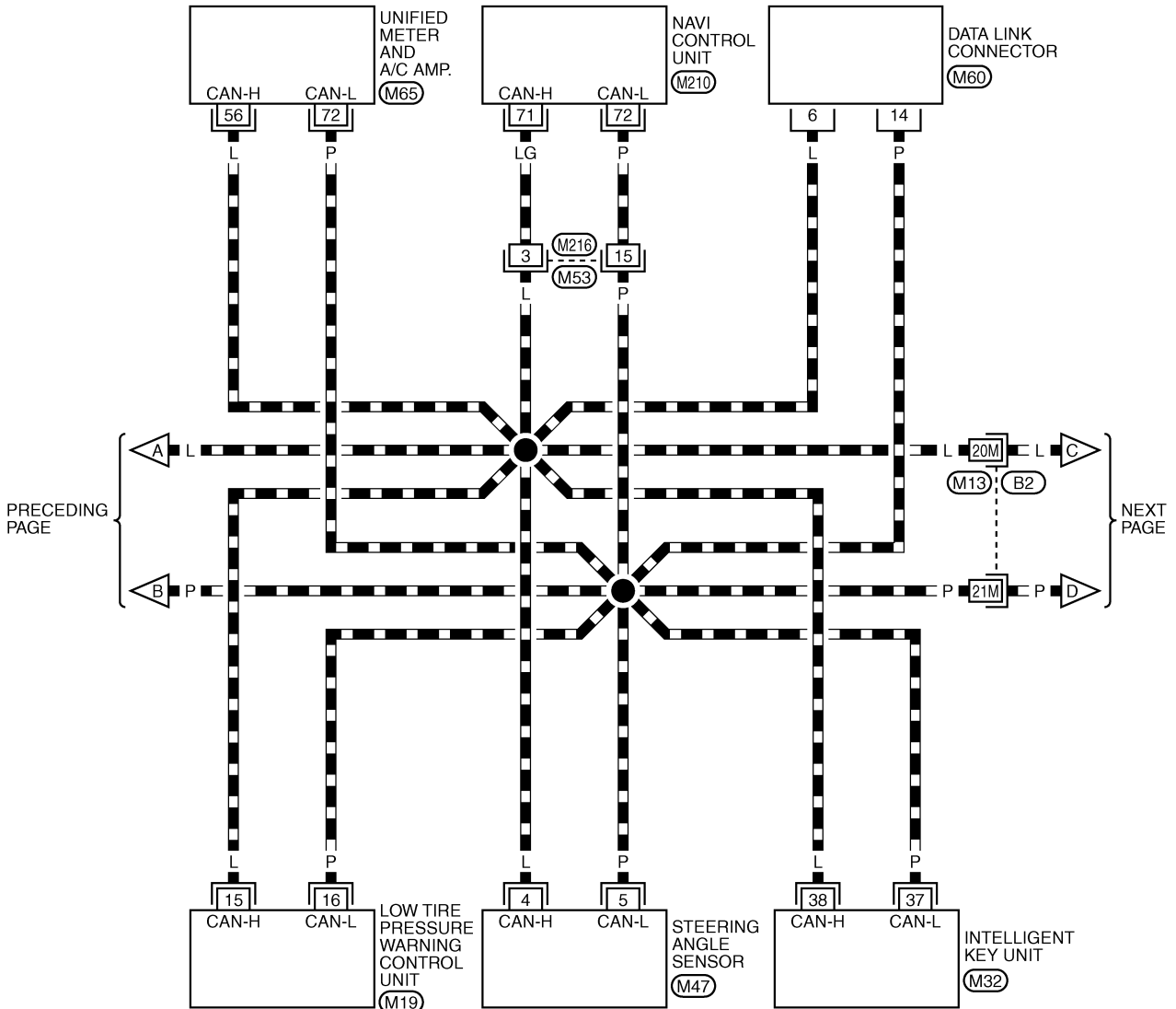
TKWT3300E

# CAN SYSTEM (TYPE 12)

[CAN]

## LAN-CAN-43

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

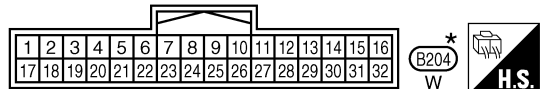
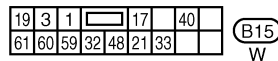
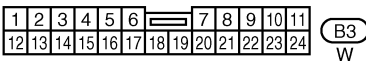
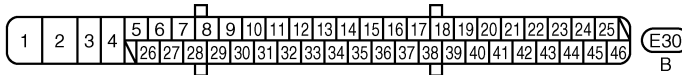
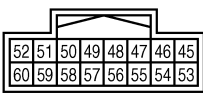
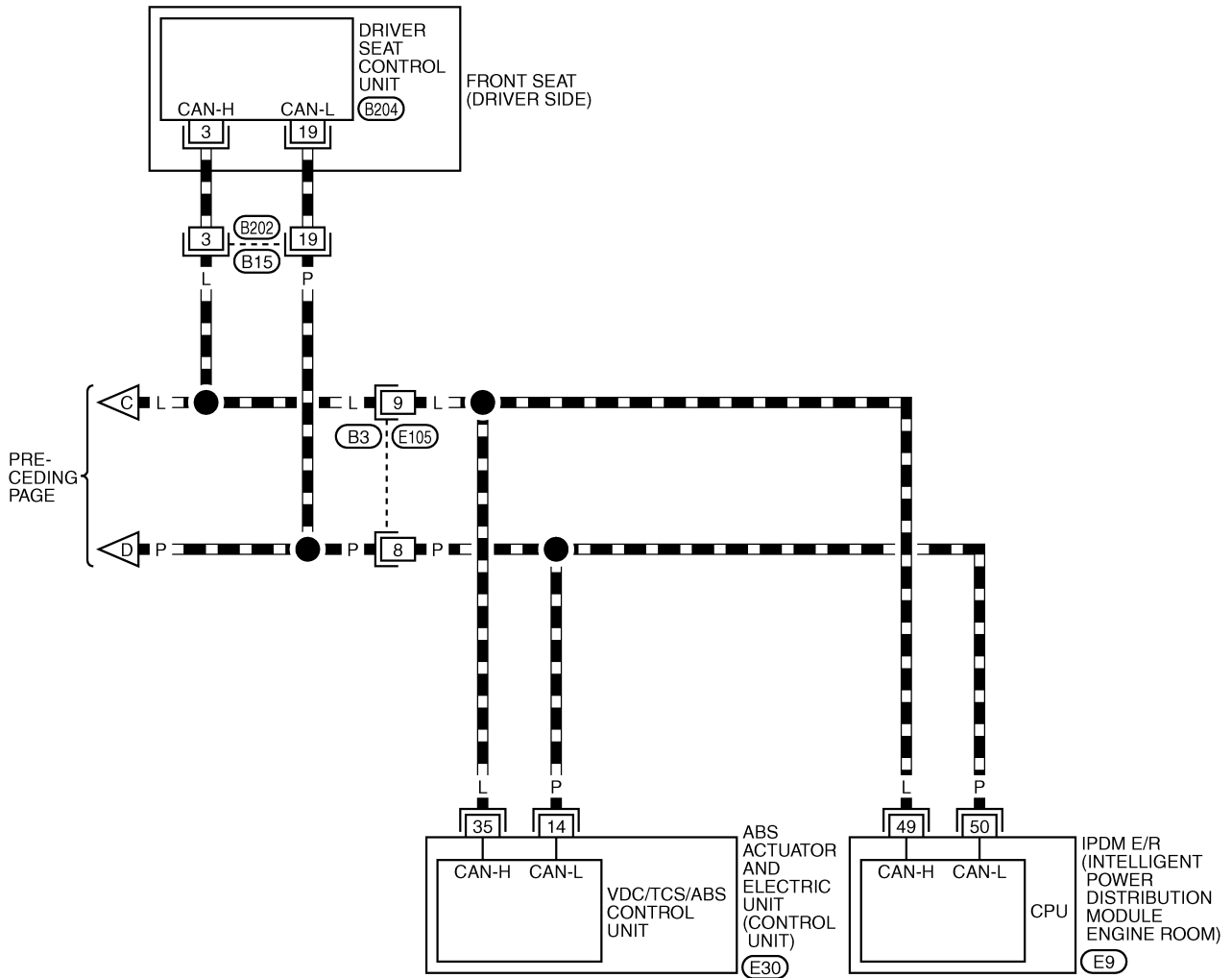
TKWT3301E

# CAN SYSTEM (TYPE 12)

[CAN]

## LAN-CAN-44

▬ : DATA LINE



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3302E

# CAN SYSTEM (TYPE 12)

[CAN]

NKS0045G

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

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SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R		
				ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8519E

# CAN SYSTEM (TYPE 12)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ALL MODE AWD/4WD  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9567E

# CAN SYSTEM (TYPE 12)

[CAN]

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Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ALL MODE AWD/4WD  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
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Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9568E

# CAN SYSTEM (TYPE 12)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

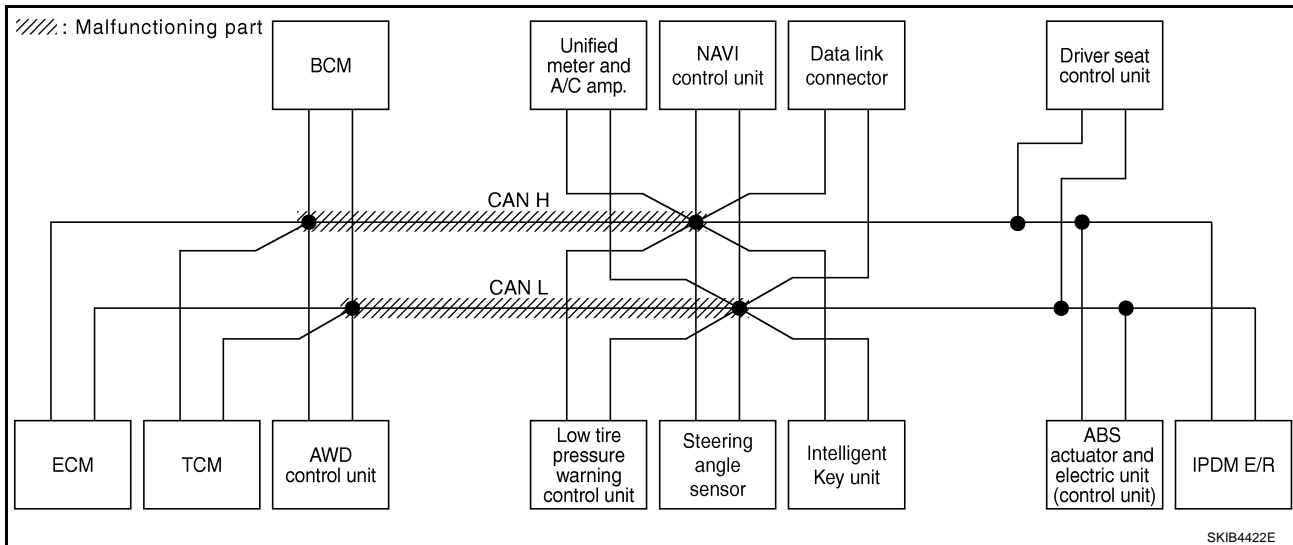
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-589, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8520E



SKIB4422E



# CAN SYSTEM (TYPE 12)

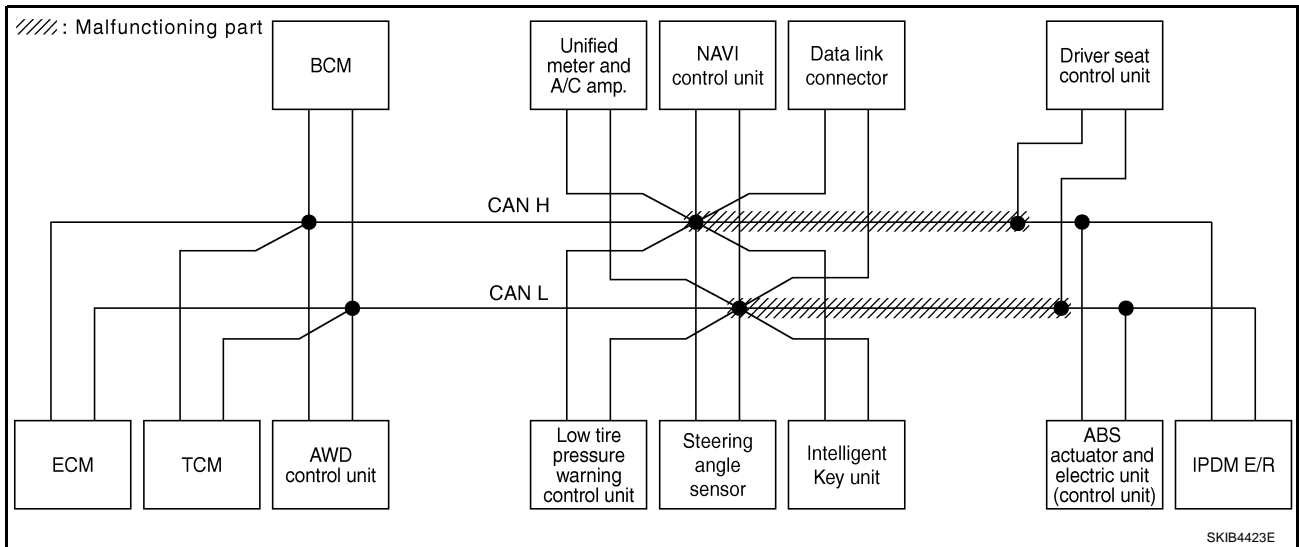
[CAN]

## Case 2

Check harness between data link connector and driver seat control unit. Refer to [LAN-590, "Inspection Between Data Link Connector and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R					
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	UNKWN	✓	—
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—
AUTO DRIVE POS.	✓ No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—
IPDM E/R	✓ No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—

PKIB8521E



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LAN

# CAN SYSTEM (TYPE 12)

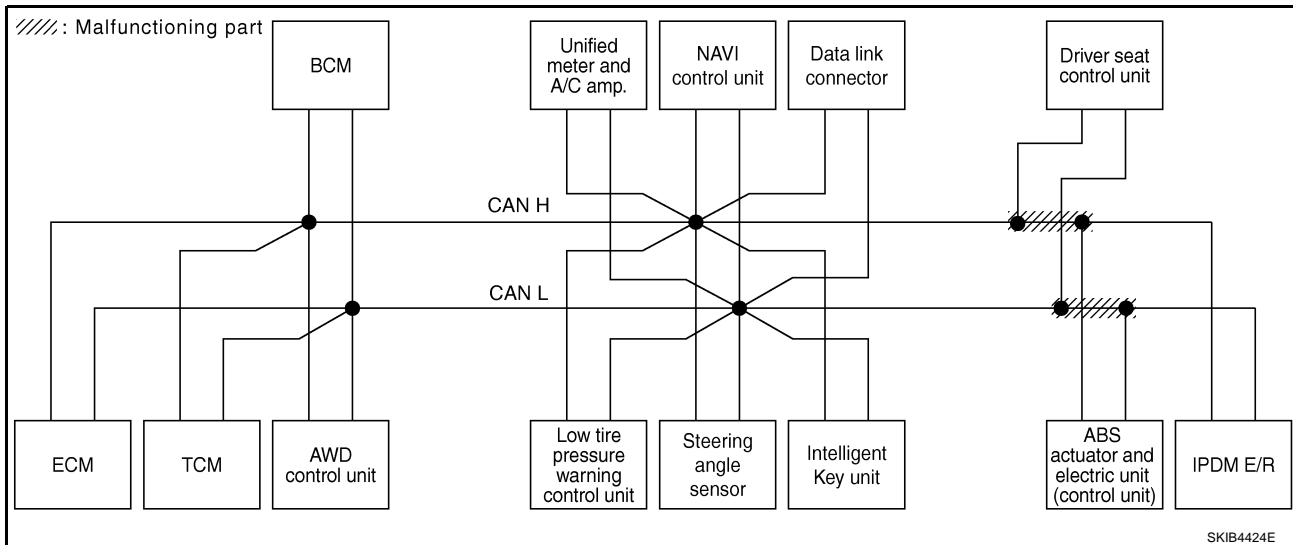
[CAN]

## Case 3

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-591, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	✓	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	✓	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8522E



SKIB4424E

# CAN SYSTEM (TYPE 12)

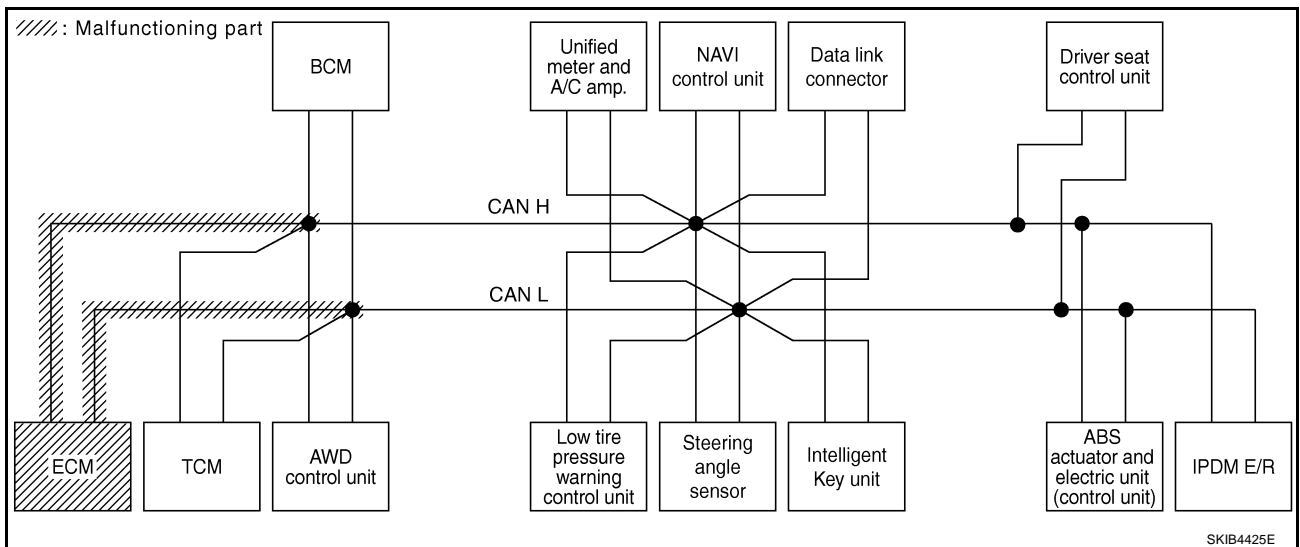
[CAN]

## Case 4

Check ECM circuit. Refer to [LAN-592. "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM. CIRCUIT (U100)	CAN COMM. CIRCUIT (U101)		
ENGINE	—	—	UNKWN	—	✓	✓	✓	—	—	—	—	✓	—	✓	✓	✓	✓
A/T	—	NG	UNKWN	✓	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	✓	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—
BCM	No indication	—	UNKWN	✓	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	✓	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—
INTELLIGENT KEY	No indication	—	UNKWN	✓	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—
METER A/C AMP	No indication	—	UNKWN	✓	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	—	—
MULTI AV	No indication	—	UNKWN	✓	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	✓	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—
IPDM E/R	No indication	—	UNKWN	✓	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—

PKIB8523E



# CAN SYSTEM (TYPE 12)

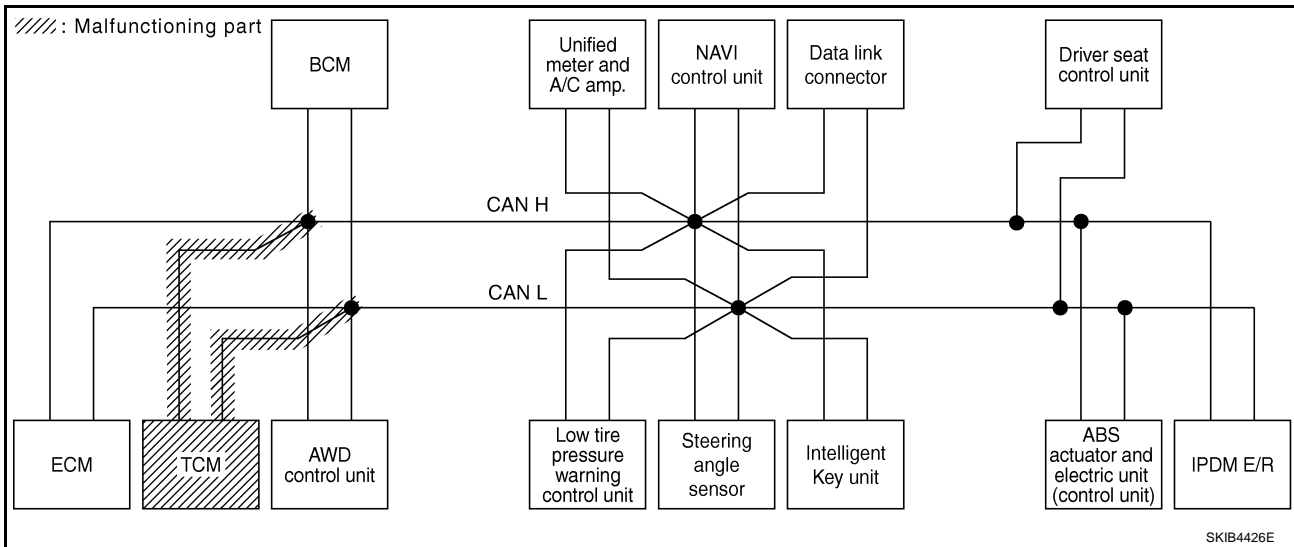
[CAN]

## Case 5

Check TCM circuit. Refer to [LAN-592, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8524E



SKIB4426E

# CAN SYSTEM (TYPE 12)

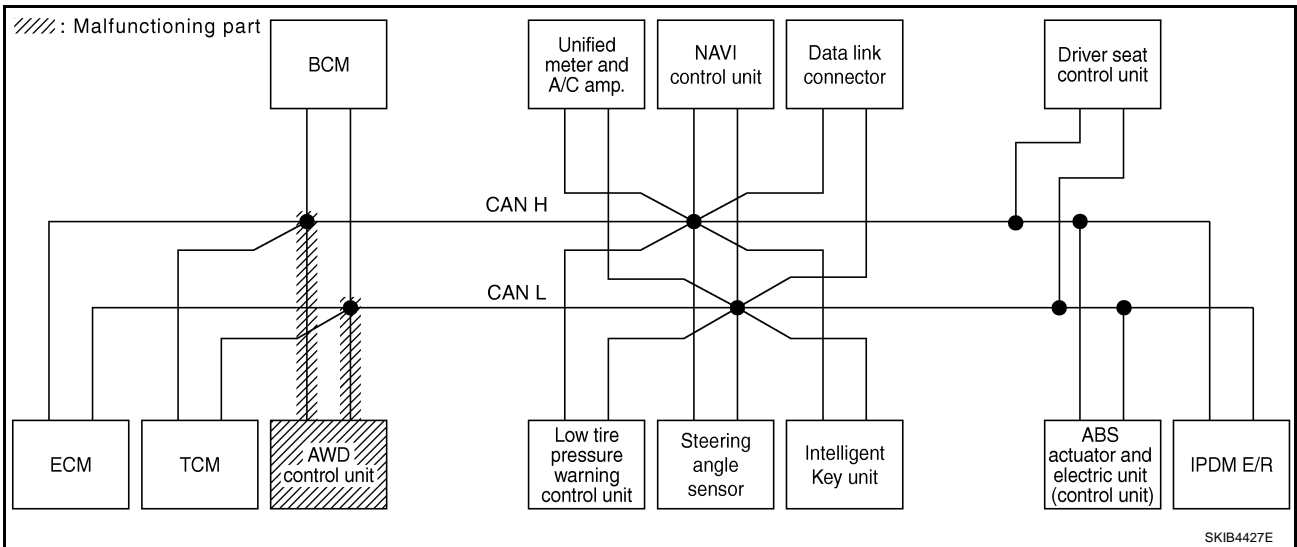
[CAN]

## Case 6

Check AWD control unit circuit. Refer to [LAN-593, "AWD Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8525E



# CAN SYSTEM (TYPE 12)

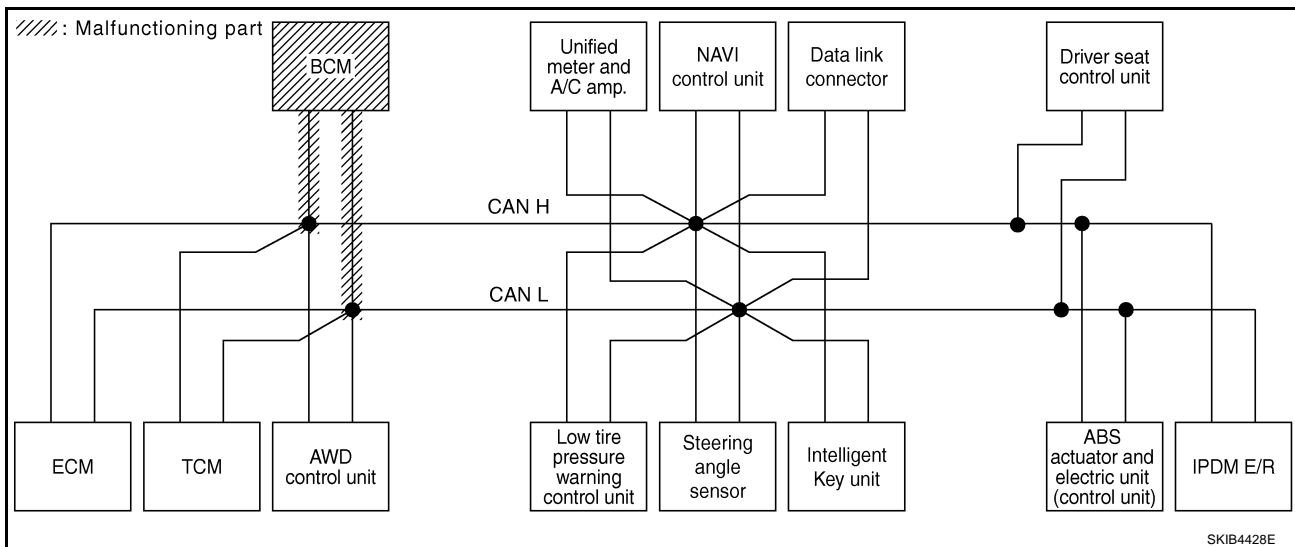
[CAN]

## Case 7

Check BCM circuit. Refer to [LAN-593, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8526E



SKIB4428E

# CAN SYSTEM (TYPE 12)

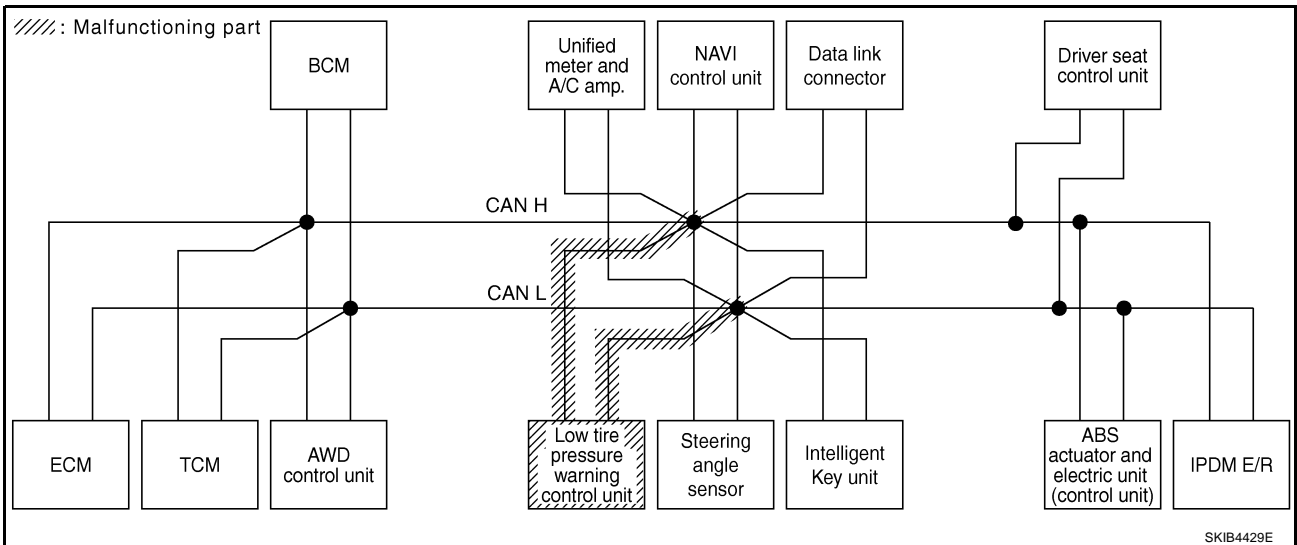
[CAN]

## Case 8

Check low tire pressure warning control unit circuit. Refer to [LAN-594, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8527E



SKIB4429E

# CAN SYSTEM (TYPE 12)

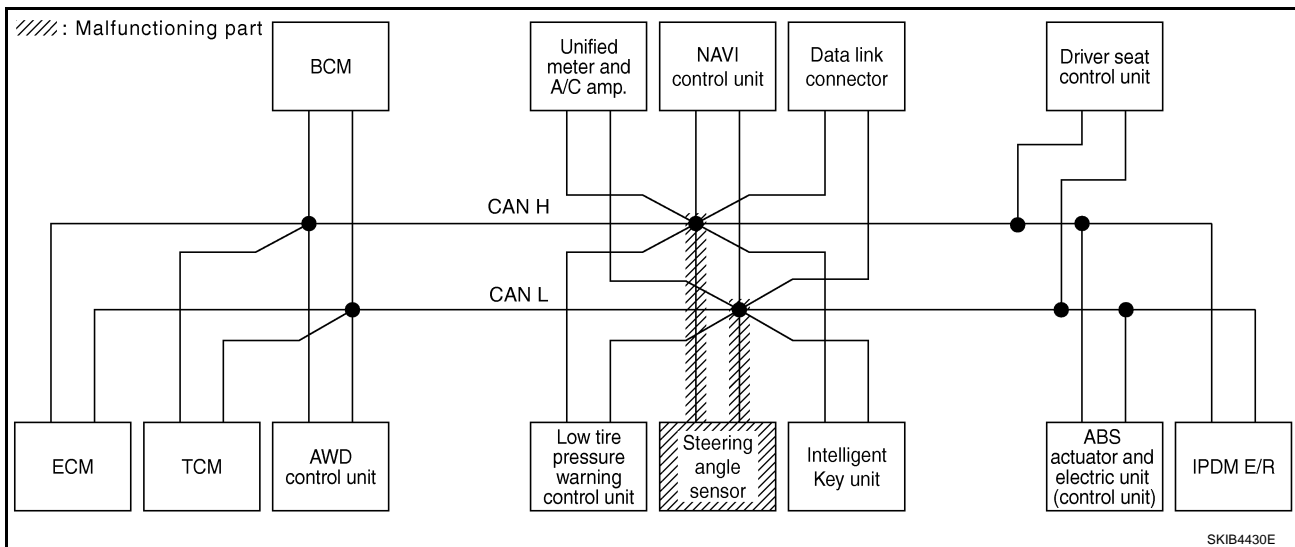
[CAN]

## Case 9

Check steering angle sensor circuit. Refer to [LAN-594, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8528E





# CAN SYSTEM (TYPE 12)

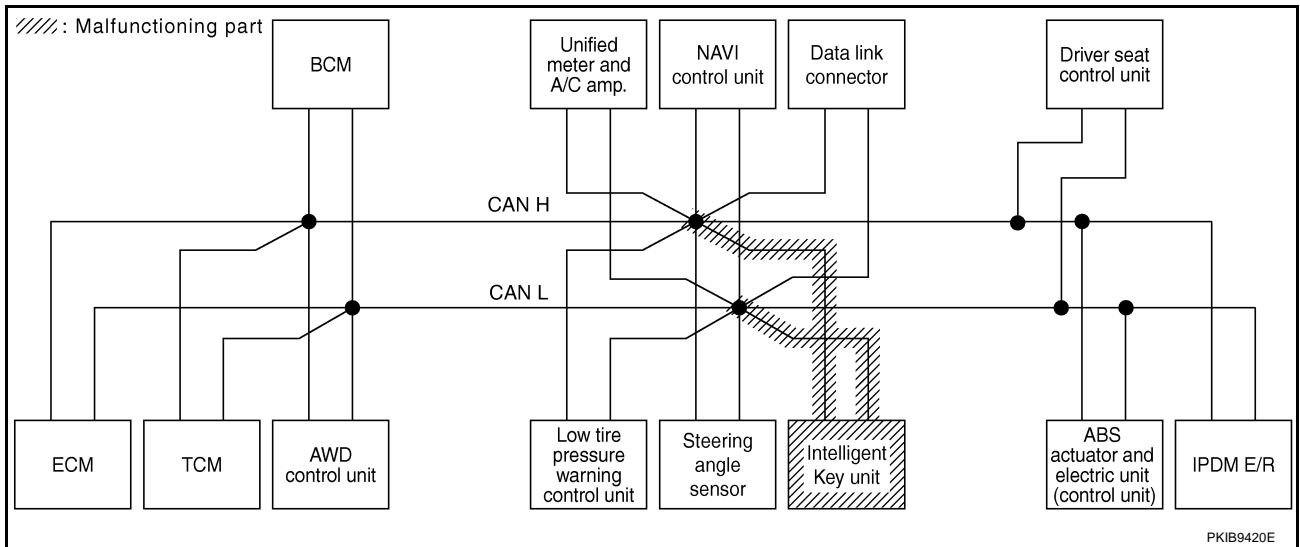
[CAN]

## Case 10

Check Intelligent Key unit circuit. Refer to [LAN-595, "Intelligent Key Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8529E



PKIB9420E



# CAN SYSTEM (TYPE 12)

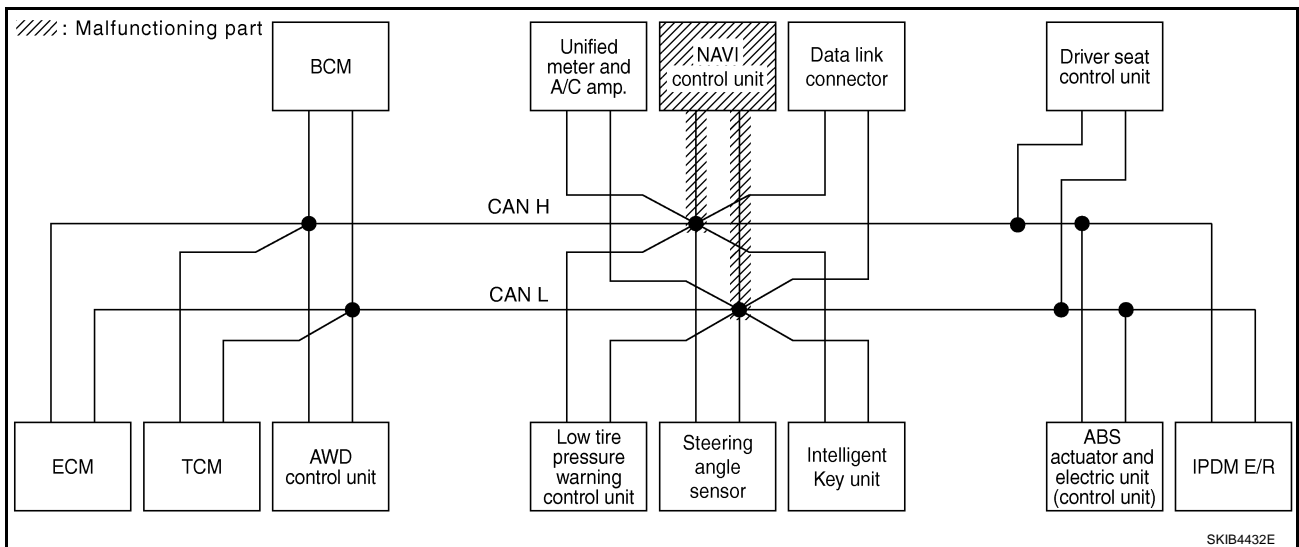
[CAN]

## Case 12

Check NAVI control unit circuit. Refer to [LAN-596, "NAVI Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	✓	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8531E



SKIB4432E

# CAN SYSTEM (TYPE 12)

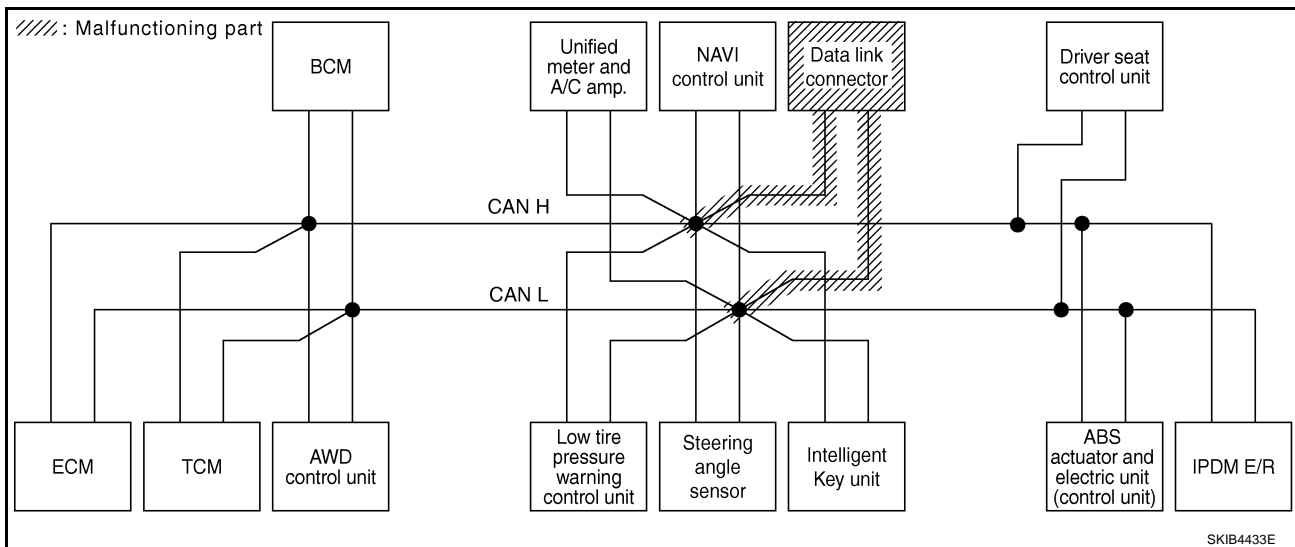
[CAN]

## Case 13

Check data link connector circuit. Refer to [LAN-596, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8532E



SKIB4433E

# CAN SYSTEM (TYPE 12)

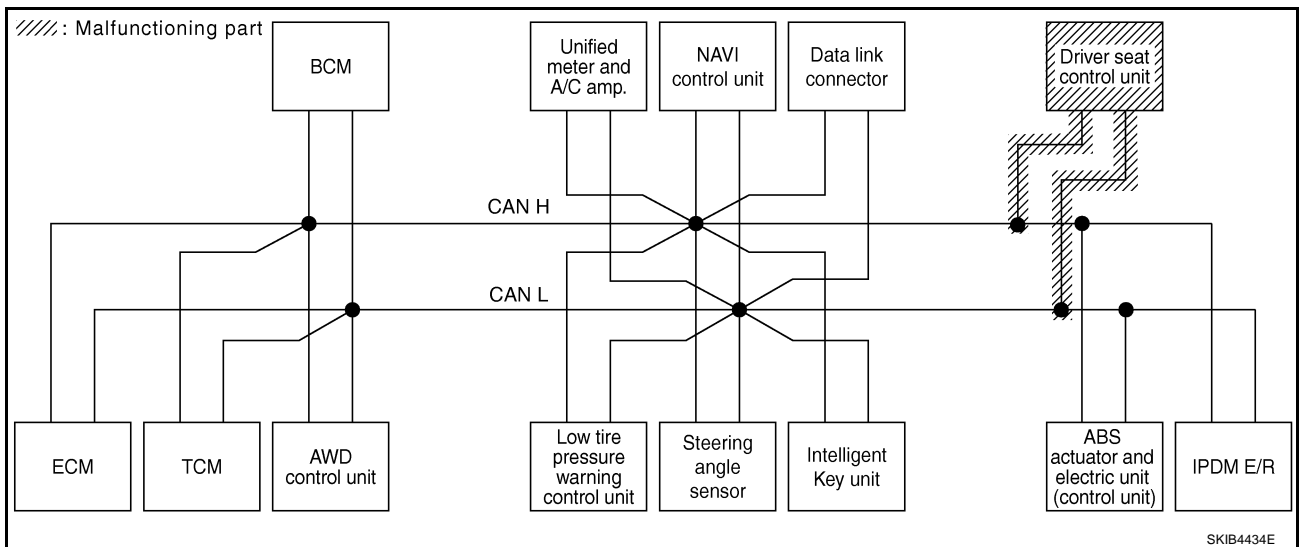
[CAN]

## Case 14

Check driver seat control unit circuit. Refer to [LAN-597, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8533E



# CAN SYSTEM (TYPE 12)

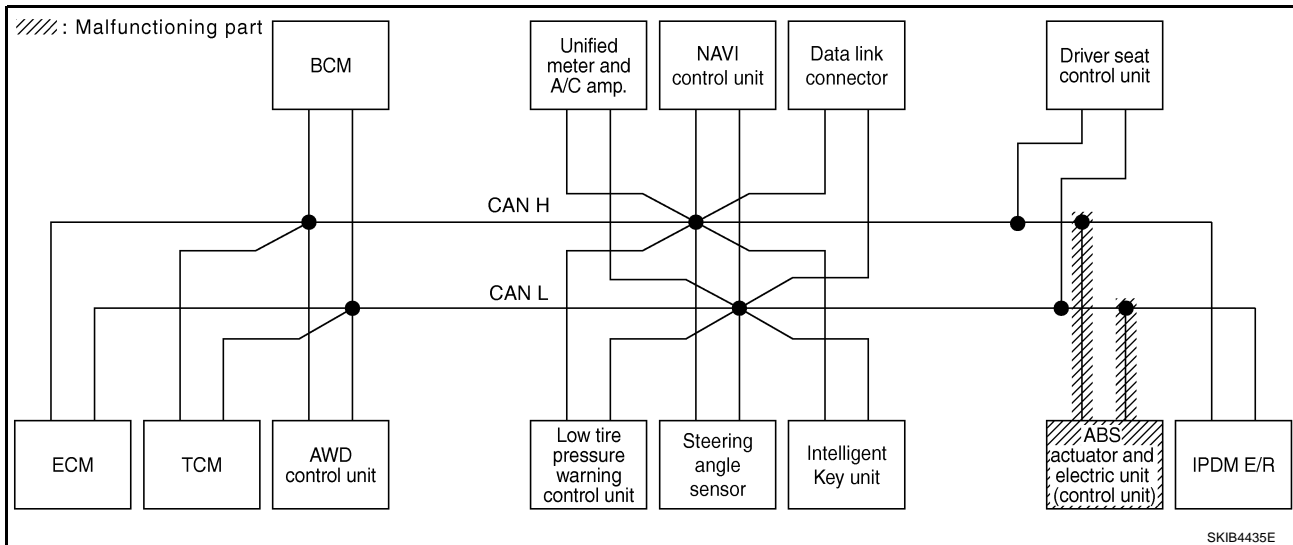
[CAN]

## Case 15

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-597, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	✓	✓	✓	✓	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8534E



SKIB4435E

# CAN SYSTEM (TYPE 12)

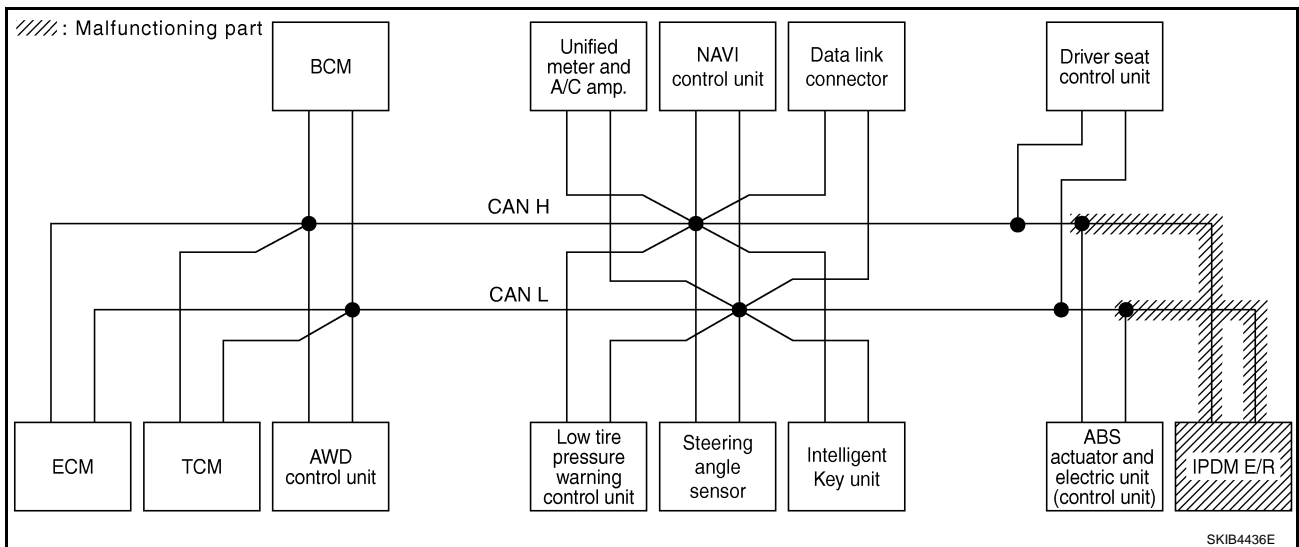
[CAN]

## Case 16

Check IPDM E/R circuit. Refer to [LAN-598. "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	✓	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8535E



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# CAN SYSTEM (TYPE 12)

[CAN]

## Case 17

Check CAN communication circuit. Refer to [LAN-599, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKW	—	UNKW	UNKW	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	UNKW	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
ALL MODE AWD/4WD	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	UNKW	UNKW	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8536E

## Case 18

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-606, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKW	—	UNKW	UNKW	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	UNKW	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	UNKW	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8537E



## Case 19

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-606, "IPDM E/R Ignition Relay Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	AWD/4WD	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	UNKWN	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8538E

## Inspection Between TCM and Data Link Connector Circuit

NKS0045H

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

**OK or NG**

OK >> GO TO 2.

NG >> Repair terminal or connector.

### 2. CHECK HARNESS FOR OPEN CIRCUIT

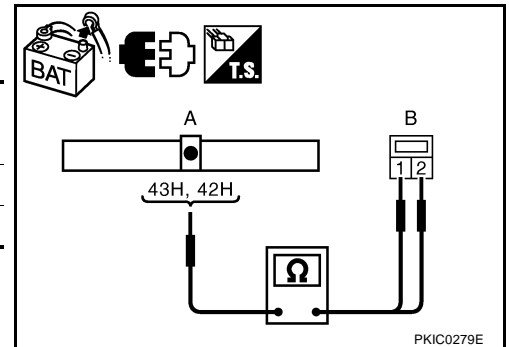
1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

**OK or NG**

OK >> GO TO 3.

NG >> Repair harness.



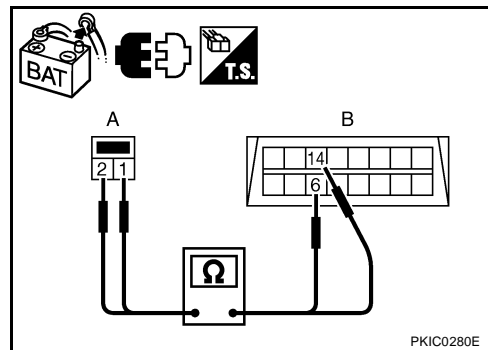
## 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



## Inspection Between Data Link Connector and Driver Seat Control Unit Circuit

NKS0045I

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

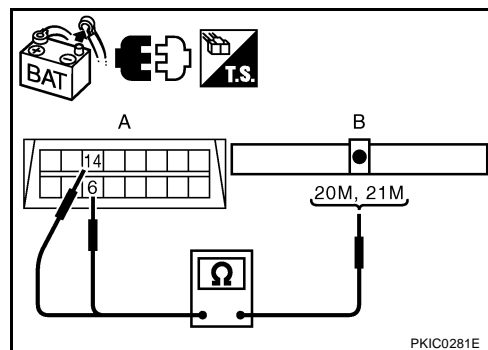
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



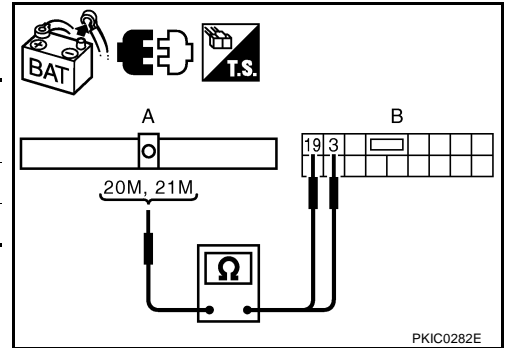
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B15	3	Yes
	21M		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9. "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS0045J

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

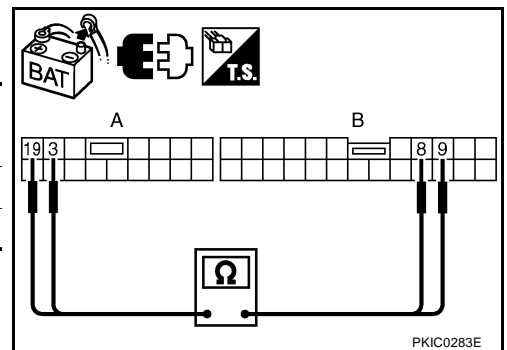
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

- OK >> GO TO 3.
- NG >> Repair harness.



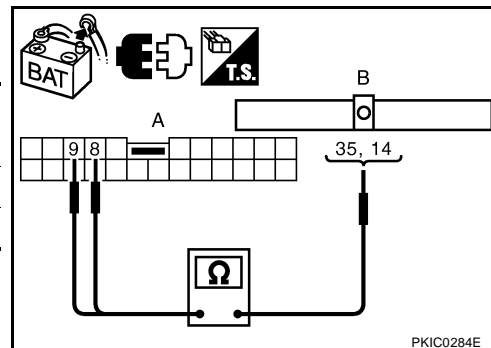
A  
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C  
D  
E  
F  
G  
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I  
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L  
M

LAN

## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes



### OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.

## ECM Circuit Inspection

NKS0045K

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

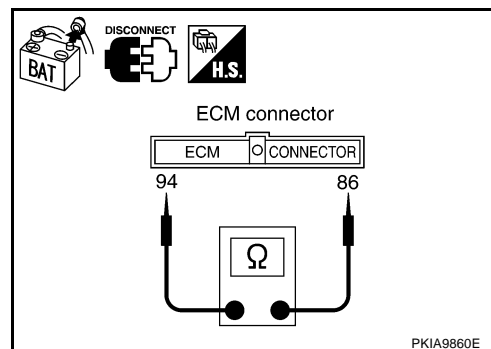
### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω



### OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.

## TCM Circuit Inspection

NKS0045L

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

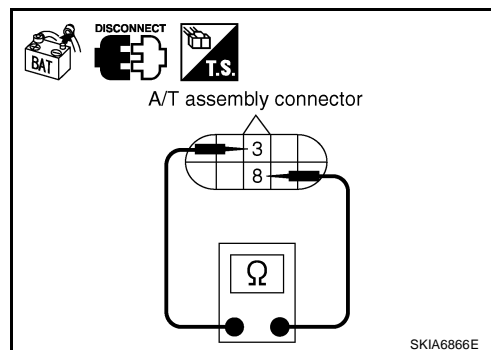
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.
- NG >> Repair harness between A/T assembly and AWD control unit.



NKS0045M

## AWD Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AWD control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

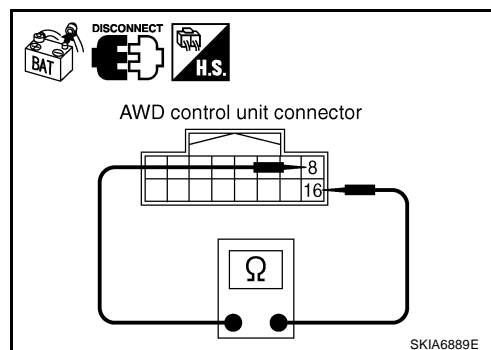
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector terminals.

AWD control unit connector	Terminal		Resistance (Approx.)
F109	8	16	54 – 66 Ω

**OK or NG**

- OK >> Replace AWD control unit.
- NG >> Repair harness between AWD control unit and BCM.



NKS0045N

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

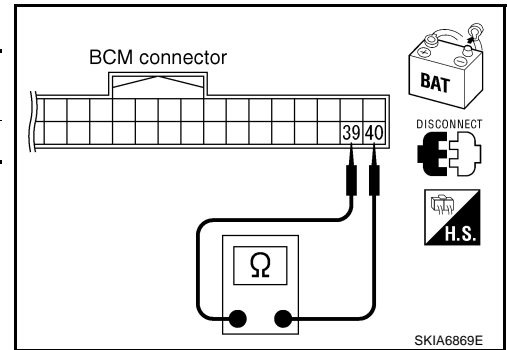
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

**OK or NG**

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#) .
- NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

NKS00450

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

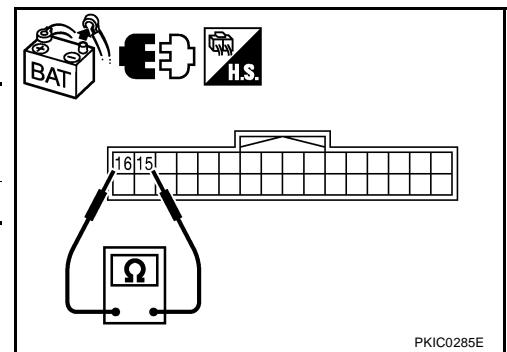
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

**OK or NG**

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS0045P

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

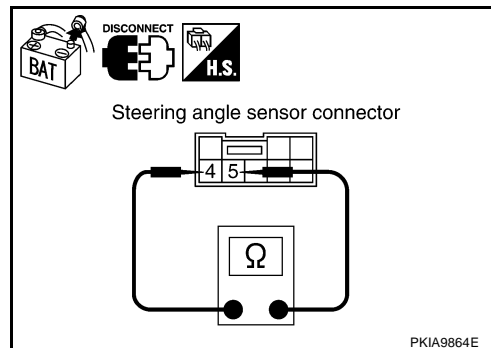
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	4	5	54 – 66 Ω

**OK or NG**

- OK >> Replace steering angle sensor.
- NG >> Repair harness between steering angle sensor and data link connector.



NKS0045Q

## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

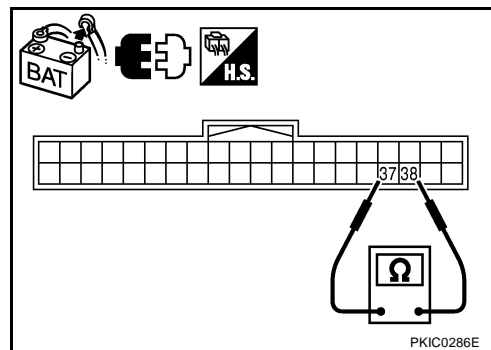
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
M32	38	37	54 – 66 Ω

**OK or NG**

- OK >> Replace Intelligent Key unit.
- NG >> Repair harness between Intelligent Key unit and data link connector.



NKS0045R

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

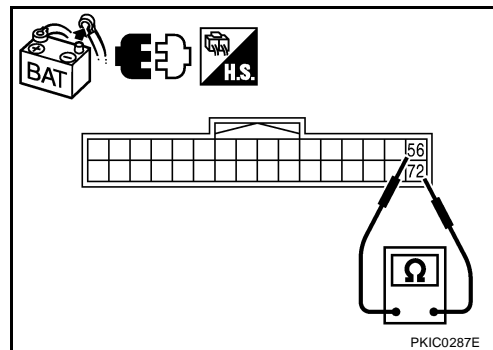
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
M65	56	72	54 – 66 Ω

**OK or NG**

- OK >> Replace unified meter and A/C amp.
- NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS0045S

## NAVI Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - NAVI control unit connector
  - Harness connector M216
  - Harness connector M53

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

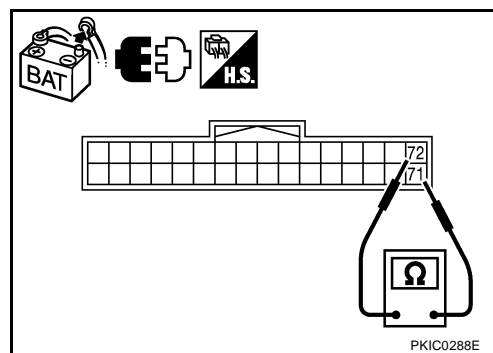
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check resistance between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

**OK or NG**

- OK >> Replace NAVI control unit.
- NG >> Repair harness between NAVI control unit and data link connector.



NKS0045T

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.



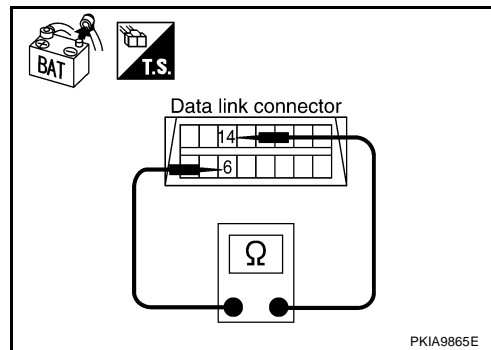
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

### OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



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NKS0045U

## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

- Turn ignition switch OFF.
- Disconnect the battery cable from the negative terminal.
- Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

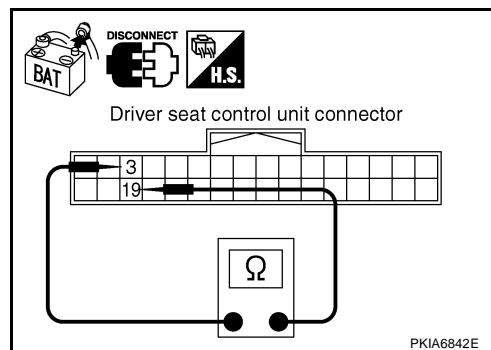
## 2. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect driver seat control unit connector.
- Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

### OK or NG

- OK >> Replace driver seat control unit.
- NG >> Repair harness between driver seat control unit and harness connector B3.



PKIA6842E

NKS0045V

## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

### 1. CHECK CONNECTOR

- Turn ignition switch OFF.
- Disconnect the battery cable from the negative terminal.
- Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

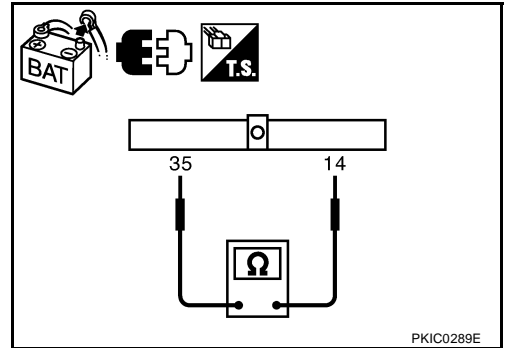
### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω



**OK or NG**

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.

## IPDM E/R Circuit Inspection

NKS0045W

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

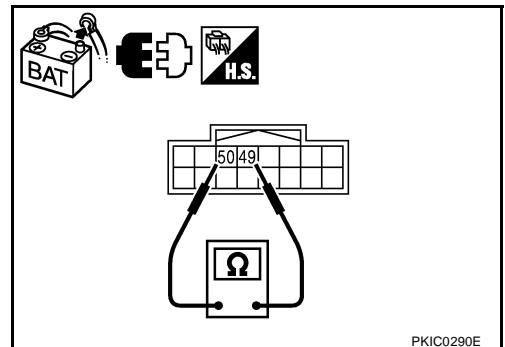
**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω



**OK or NG**

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R and harness connector E105.

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AWD control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
    - Between ECM and A/T assembly
    - Between ECM and AWD control unit
    - Between ECM and NAVI control unit
    - Between ECM and driver seat control unit
    - Between ECM and IPDM E/R

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

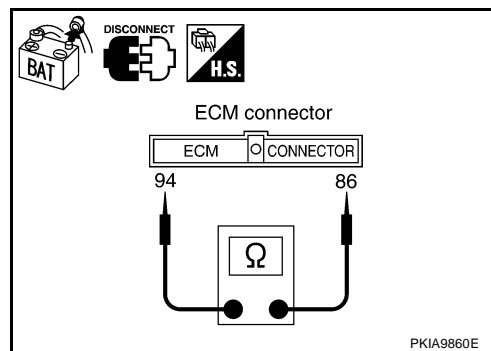
### 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

OK or NG

- OK >> GO TO 3.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



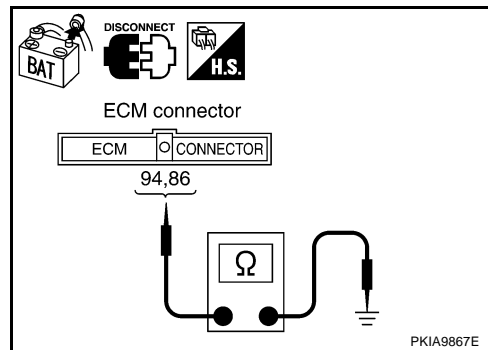
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		
	86	No	

**OK or NG**

- OK >> GO TO 4.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



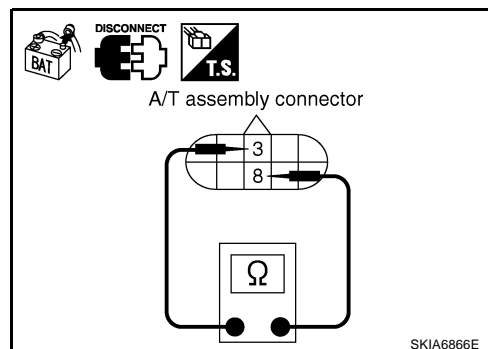
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.
- NG >> Repair harness between A/T assembly and harness connector F102.



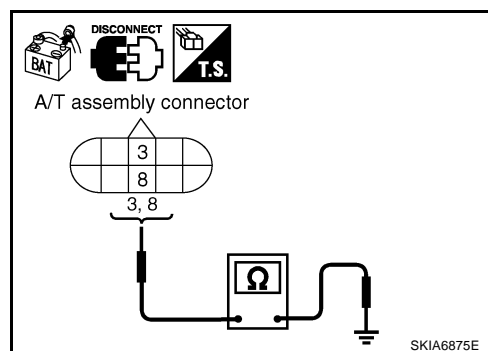
## 5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

**OK or NG**

- OK >> GO TO 6.
- NG >> Repair harness between A/T assembly and harness connector F102.



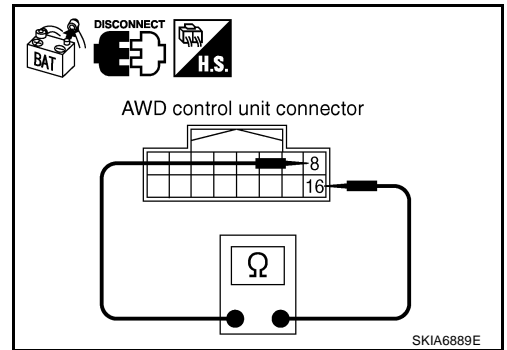
**6. CHECK HARNESS FOR SHORT CIRCUIT**

1. Disconnect AWD control unit connector.
2. Check continuity between AWD control unit harness connector terminals.

AWD control unit connector	Terminal		Continuity
	8	16	
F109	8	16	No

**OK or NG**

- OK >> GO TO 7.
- NG >> Repair harness between AWD control unit and harness connector F102.



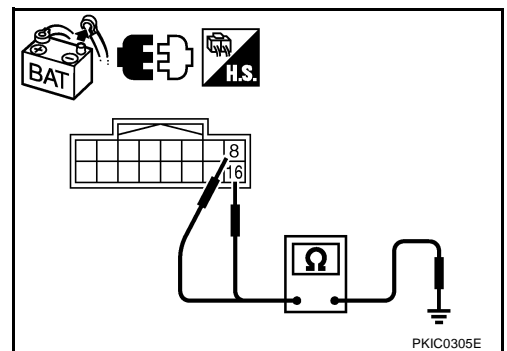
**7. CHECK HARNESS FOR SHORT CIRCUIT**

Check continuity between AWD control unit harness connector terminals and ground.

AWD control unit connector	Terminal	Ground	Continuity
	F109		8
	16	No	

**OK or NG**

- OK >> GO TO 8.
- NG >> Replace harness between AWD control unit and harness connector F102.



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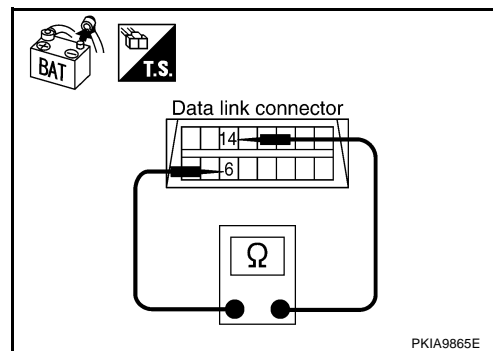
## 8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

Data link connector	Terminal		Continuity
M60	6	14	No

**OK or NG**

- OK >> GO TO 9.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



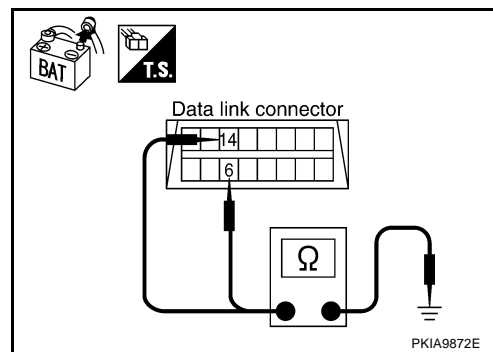
## 9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

Data link connector	Terminal	Ground	Continuity
M60	6	Ground	No
	14		No

**OK or NG**

- OK >> GO TO 10.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and harness connector M62
  - Harness between data link connector and low tire pressure warning control unit
  - Harness between data link connector and steering angle sensor
  - Harness between data link connector and Intelligent Key unit
  - Harness between data link connector and unified meter and A/C amp.
  - Harness between data link connector and harness connector M53
  - Harness between data link connector and harness connector M13



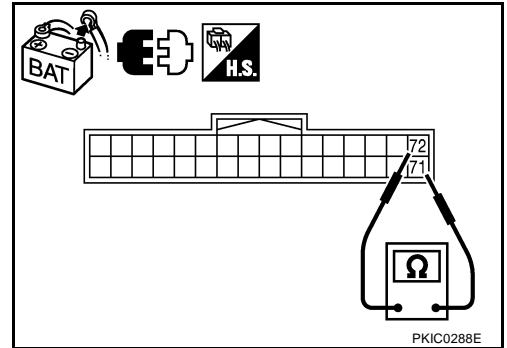
## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check continuity between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Continuity
M210	71	72	No

**OK or NG**

- OK >> GO TO 11.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



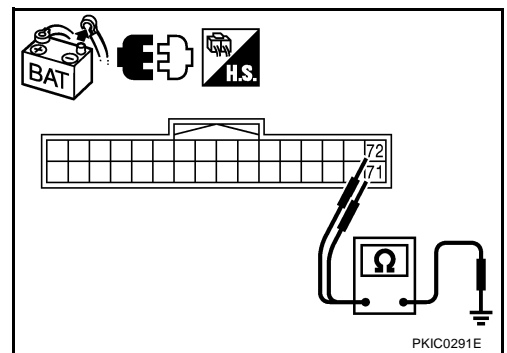
## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between NAVI control unit harness connector terminals and ground.

NAVI control unit connector	Terminal	Ground	Continuity
M210	71		No
	72	No	

**OK or NG**

- OK >> GO TO 12.  
 NG >> Repair harness between NAVI control unit and harness connector M216.



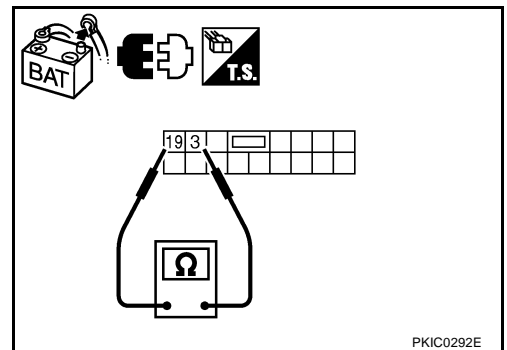
## 12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 13.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between harness connector B15 and harness connector B2
  - Harness between harness connector B15 and harness connector B3



A  
B  
C  
D  
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F  
G  
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I  
J  
L  
M

LAN

## 13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

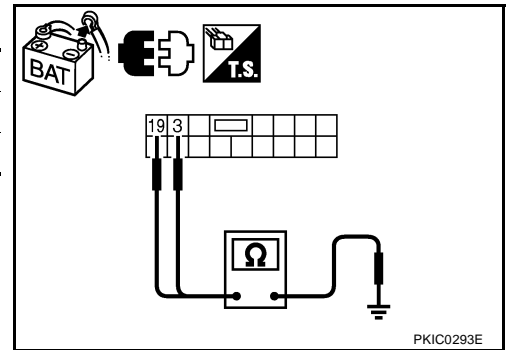
Harness connector	Terminal	Ground	Continuity
B15	3		No
	19	No	

**OK or NG**

OK >> GO TO 14.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between harness connector B15 and harness connector B2
- Harness between harness connector B15 and harness connector B3



## 14. CHECK HARNESS FOR SHORT CIRCUIT

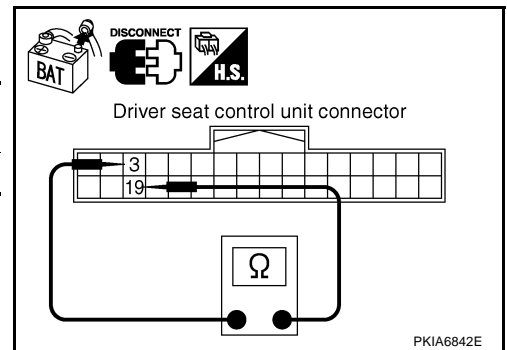
1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal	Continuity
B204	3, 19	No

**OK or NG**

OK >> GO TO 15.

NG >> Repair harness between driver seat control unit and harness connector B202.



## 15. CHECK HARNESS FOR SHORT CIRCUIT

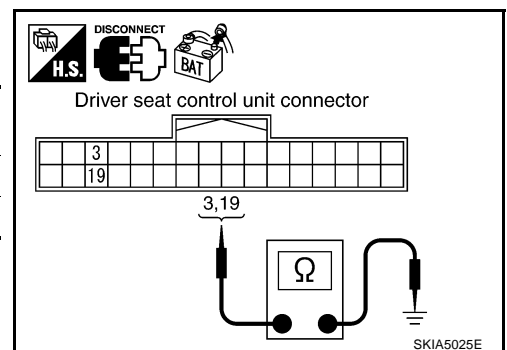
Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

**OK or NG**

OK >> GO TO 16.

NG >> Repair harness between driver seat control unit and harness connector B202.





## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

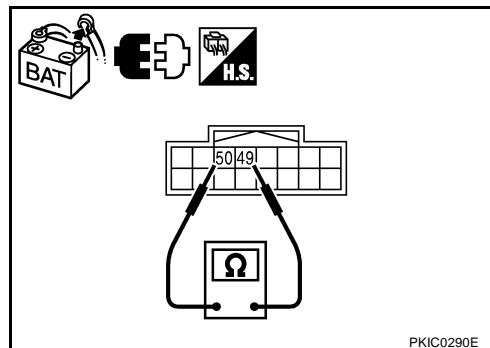
IPDM E/R connector	Terminal		Continuity
E9	49	50	No

**OK or NG**

OK >> GO TO 17.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0290E

## 17. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

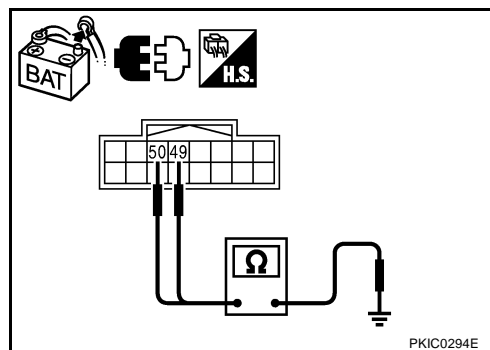
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		
	50		No

**OK or NG**

OK >> GO TO 18.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



PKIC0294E

## 18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal	Terminal	Resistance (Approx.)
94	86	108 – 132 Ω

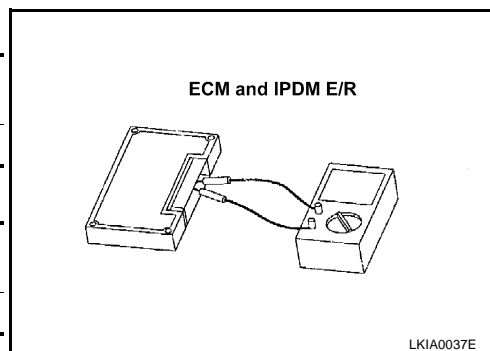
3. Check resistance between IPDM E/R terminals.

Terminal	Terminal	Resistance (Approx.)
49	50	108 – 132 Ω

**OK or NG**

OK >> GO TO 19.

NG >> Replace ECM and/or IPDM E/R.



LKIA0037E

A  
B  
C  
D  
E  
F  
G  
H  
I  
J

LAN

L  
M

## 19. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

OK >> GO TO 20.

NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 20. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AWD control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

NKS0045Y

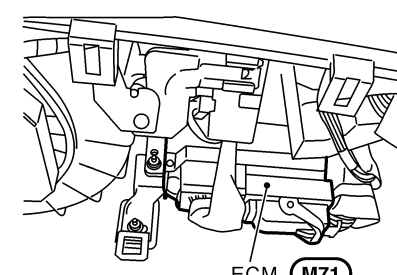
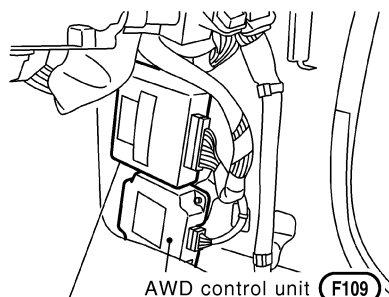
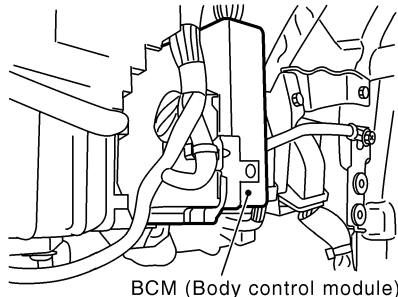
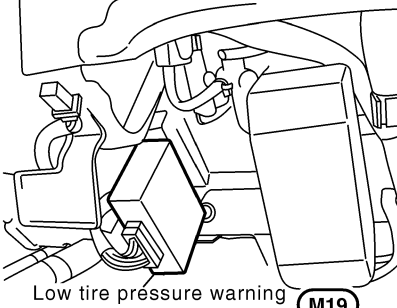
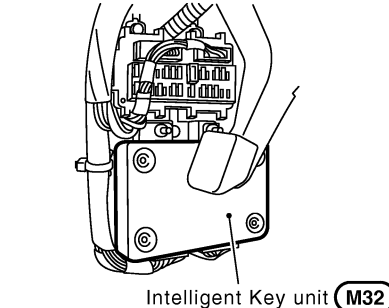
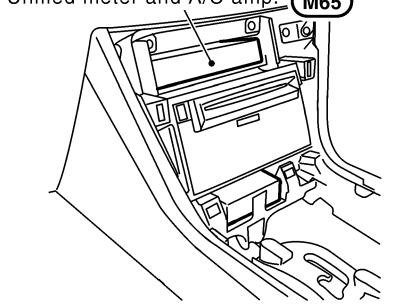
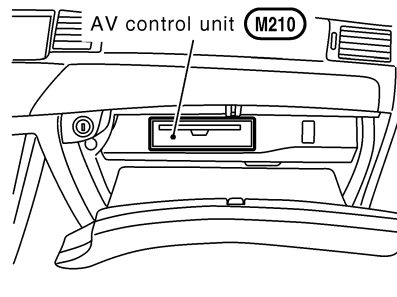
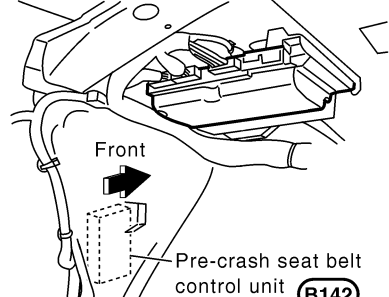
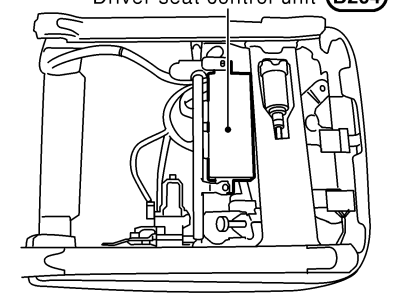
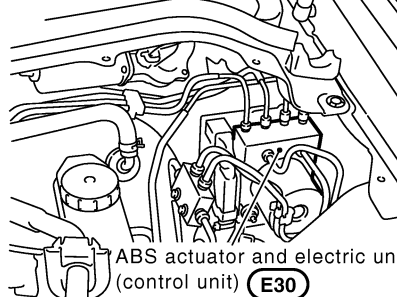
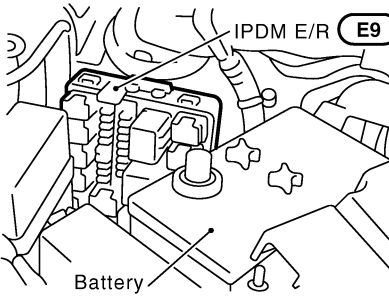
Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" "](#) .

## CAN SYSTEM (TYPE 13)

### Component Parts and Harness Connector Location

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AWD control unit (F109) AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>AV control unit (M210)</p>	<p>View with trunk side LH finisher and front finisher removed</p>  <p>Front Pre-crash seat belt control unit (B142)</p>	<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>
<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9) Battery</p>	

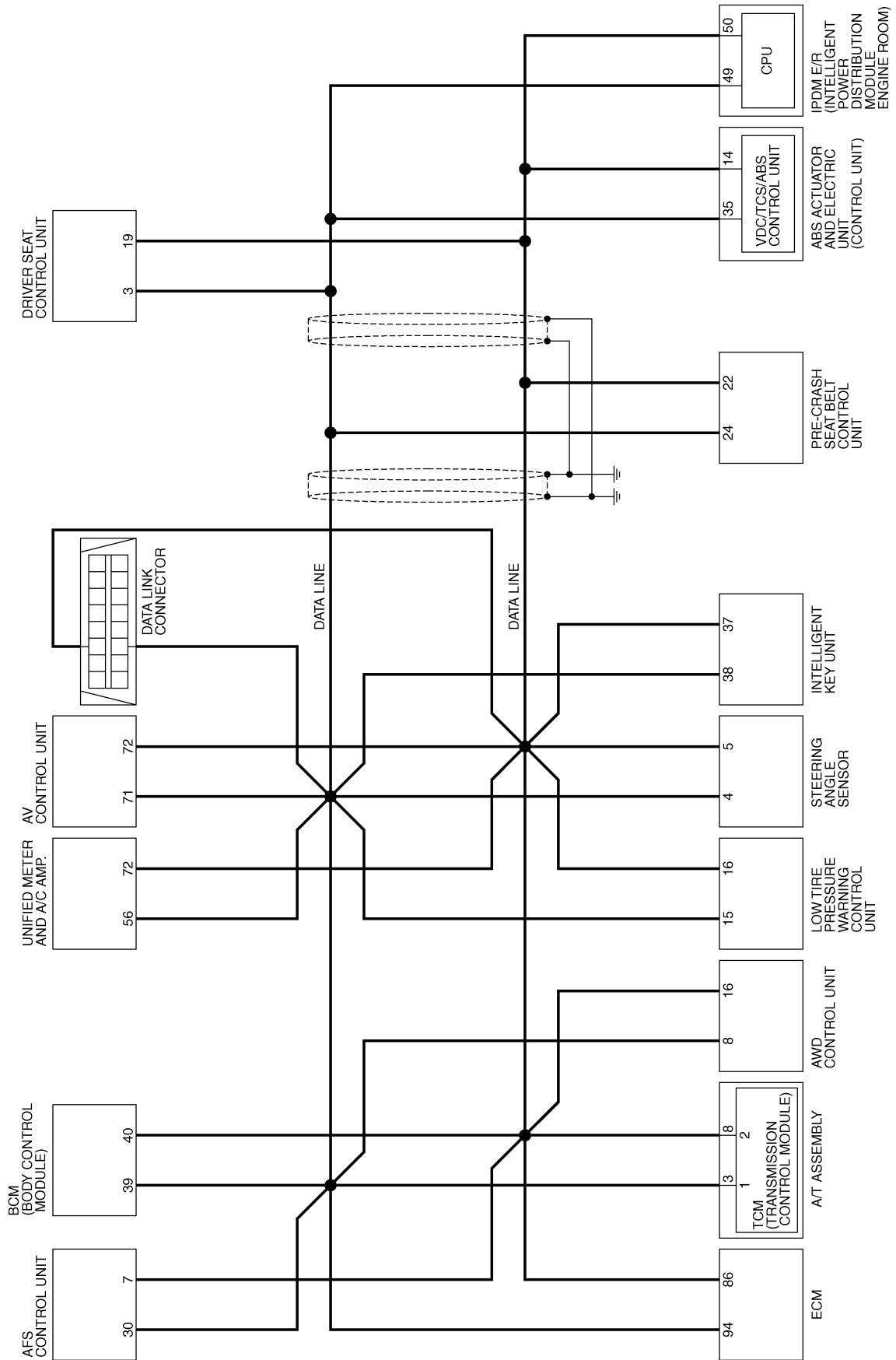
PKIC0611E

# CAN SYSTEM (TYPE 13)

[CAN]

## Schematic

NKS00460



TKWT3303E

# CAN SYSTEM (TYPE 13)

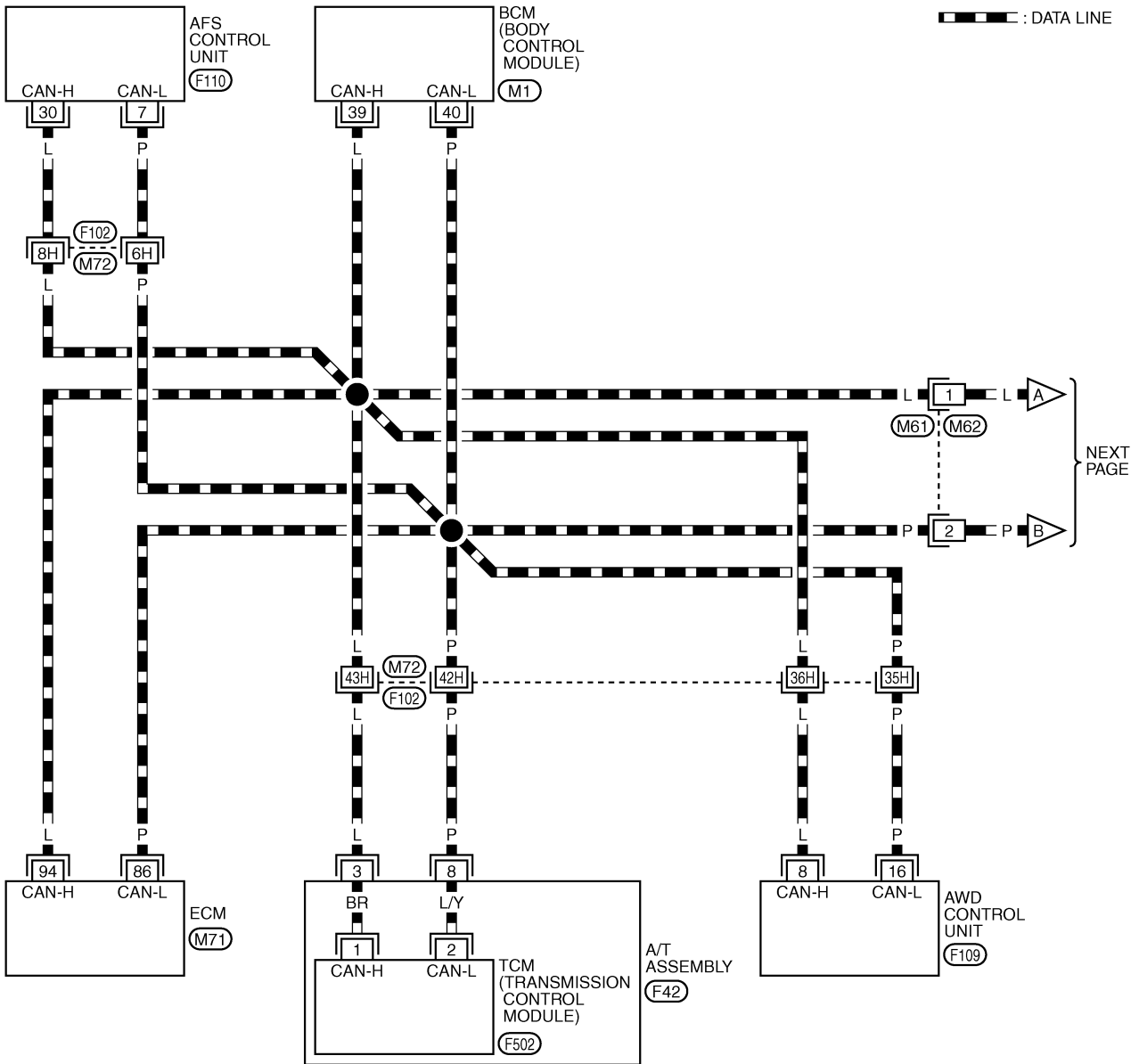
[CAN]

NKS00461

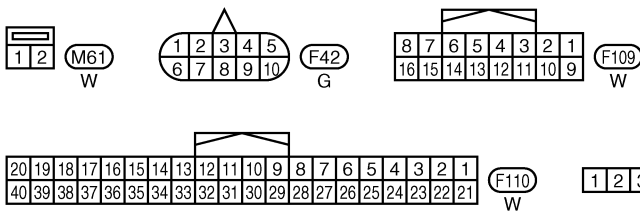
## Wiring Diagram — CAN —

LAN-CAN-45

▬ : DATA LINE



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

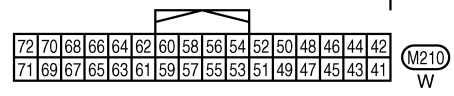
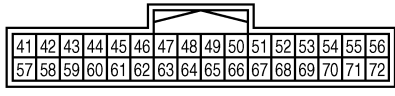
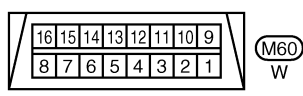
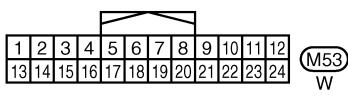
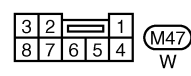
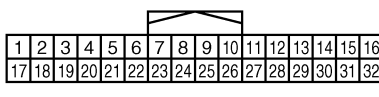
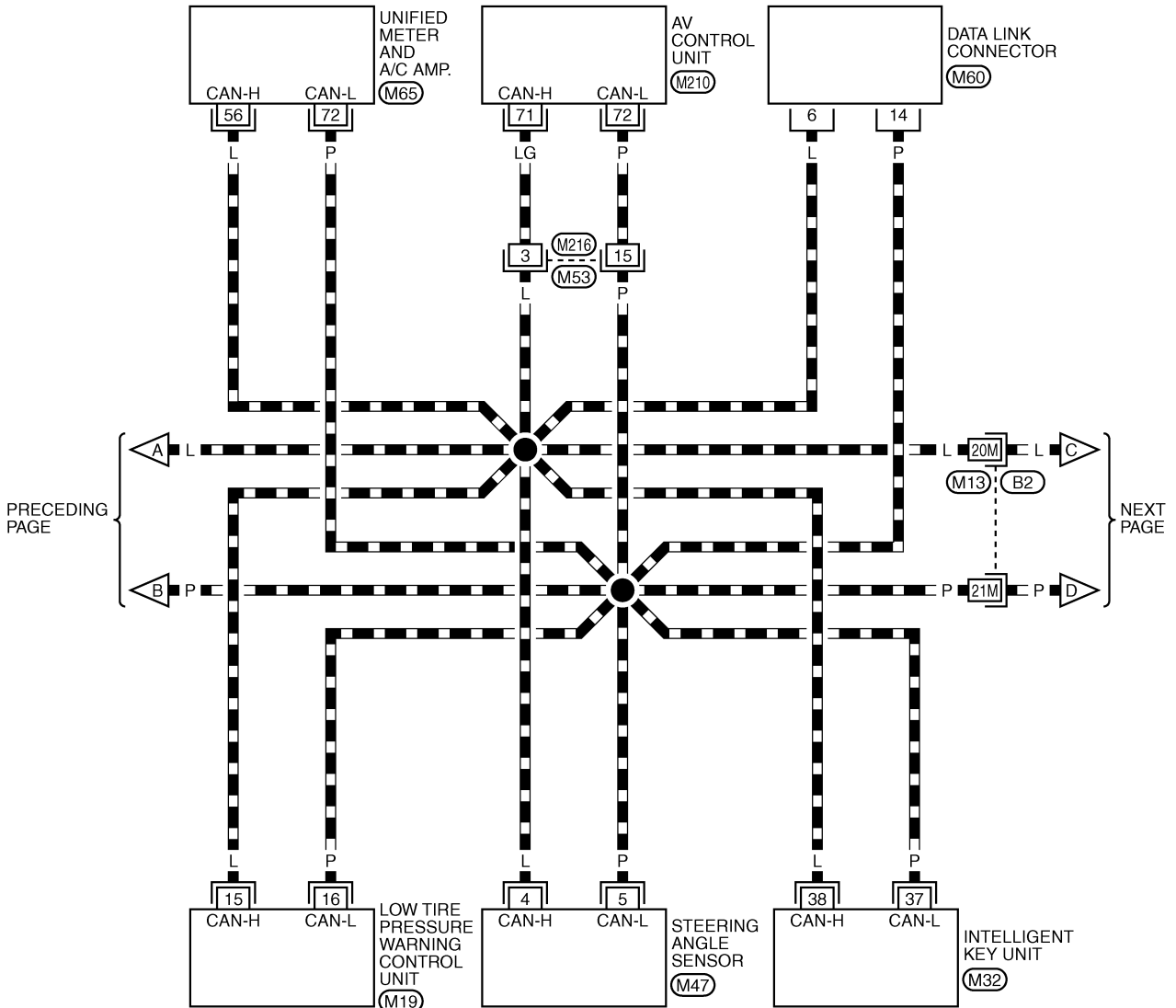
TKWT3304E

# CAN SYSTEM (TYPE 13)

[CAN]

## LAN-CAN-46

▬ : DATA LINE



REFER TO THE FOLLOWING.  
 (B2) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M32) -ELECTRICAL UNITS

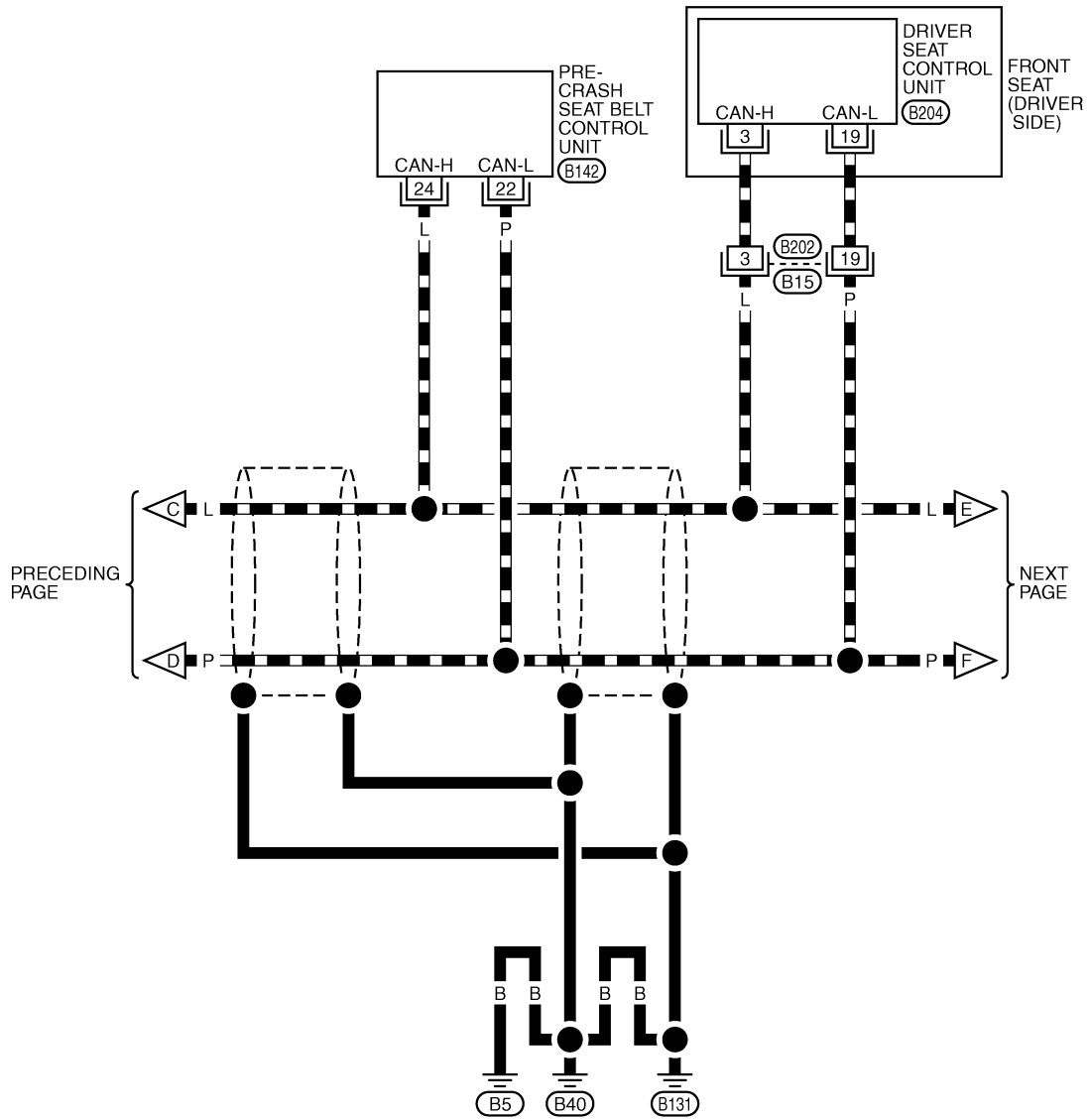
TKWT3305E

# CAN SYSTEM (TYPE 13)

[CAN]

## LAN-CAN-47

▬ : DATA LINE



19	3	1		17	40	
61	60	59	32	48	21	33


(B15)  
W

6	5	4		12	11	10	9	8	7	3	2	1
26	25	24	23	22	21	20				19	18	17

(B142)  
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

(B204)  
W



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

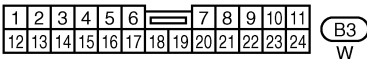
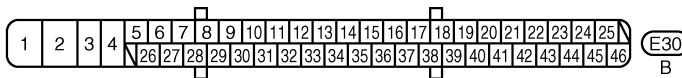
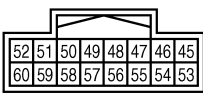
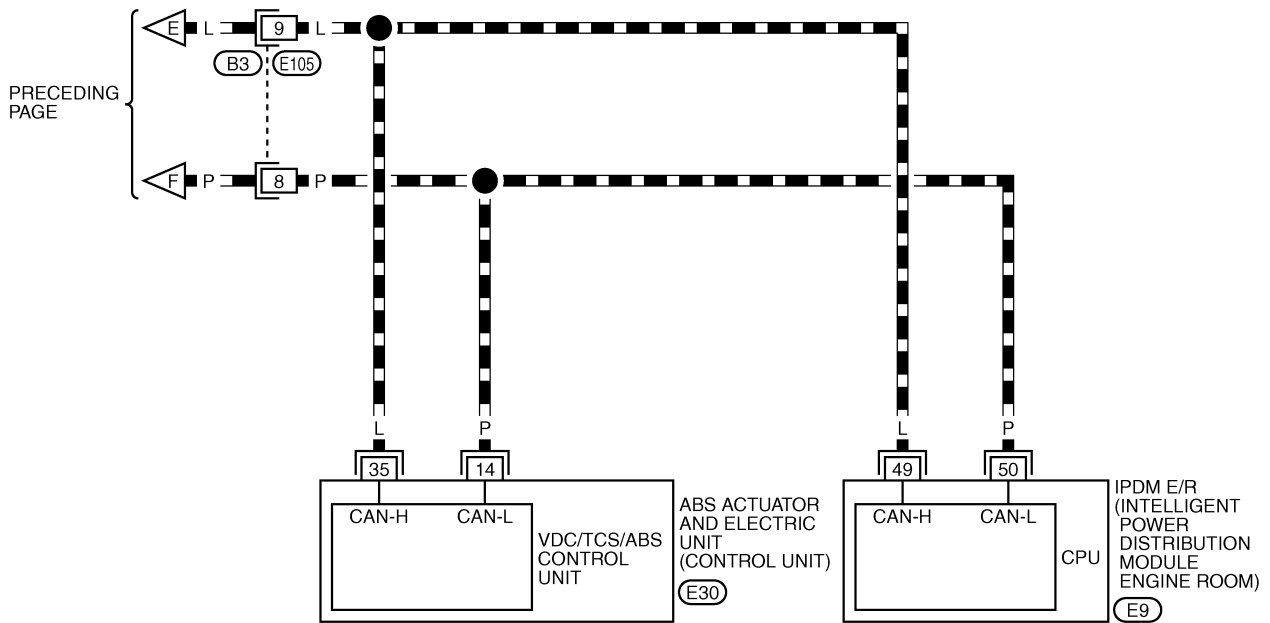
TKWT3306E

# CAN SYSTEM (TYPE 13)

[CAN]

## LAN-CAN-48

▬ : DATA LINE



TKWT3307E



# CAN SYSTEM (TYPE 13)

[CAN]

NKS00462

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV				VDC/TCS /ABS
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

# CAN SYSTEM (TYPE 13)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ALL MODE AWD/4WD  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
PRECRASH SEATBELT  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9569E

# CAN SYSTEM (TYPE 13)

[CAN]

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M

Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ALL MODE AWD/4WD  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
PRECRASH SEATBELT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9570E

# CAN SYSTEM (TYPE 13)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

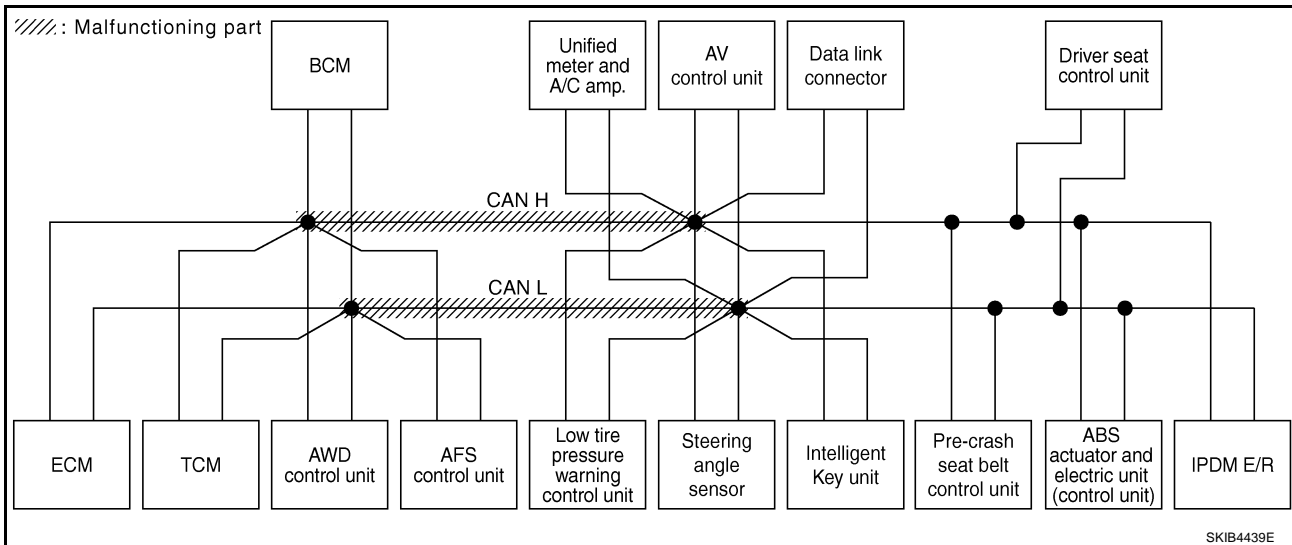
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-636, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
		ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	✓ No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	✓ No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	✓ No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	✓ No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	✓ No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	✓ No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	✓ No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	✓ No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	✓ No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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# CAN SYSTEM (TYPE 13)

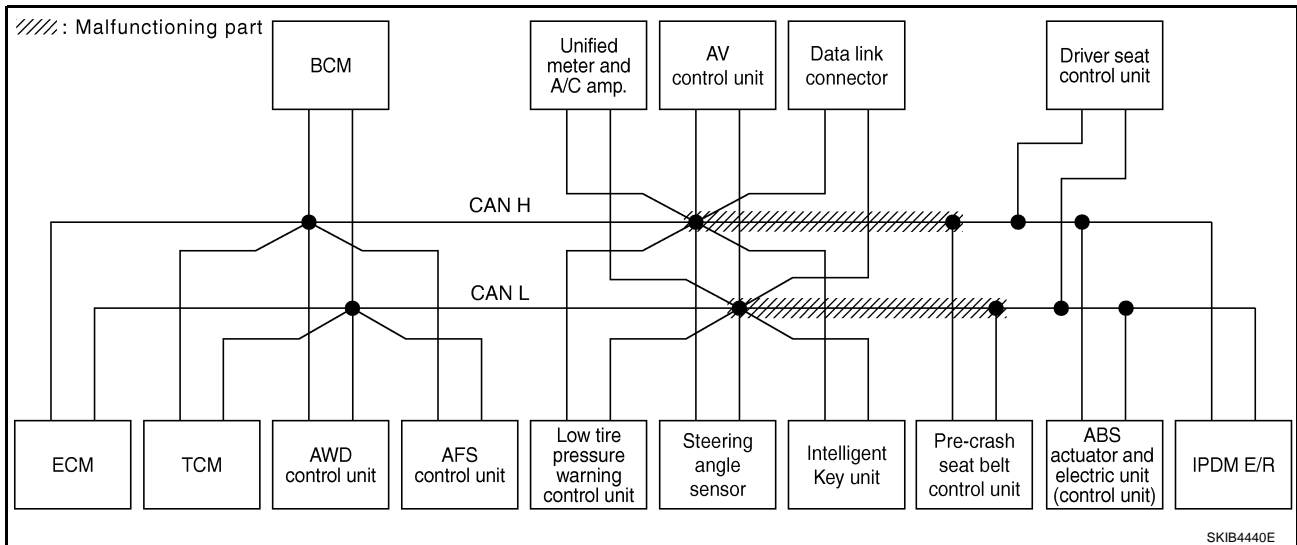
[CAN]

## Case 2

Check harness between data link connector and pre-crash seat belt control unit. Refer to [LAN-637, "Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R						
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	✓	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	✓	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	✓	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	✓	✓	✓	—	—	—	✓	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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# CAN SYSTEM (TYPE 13)

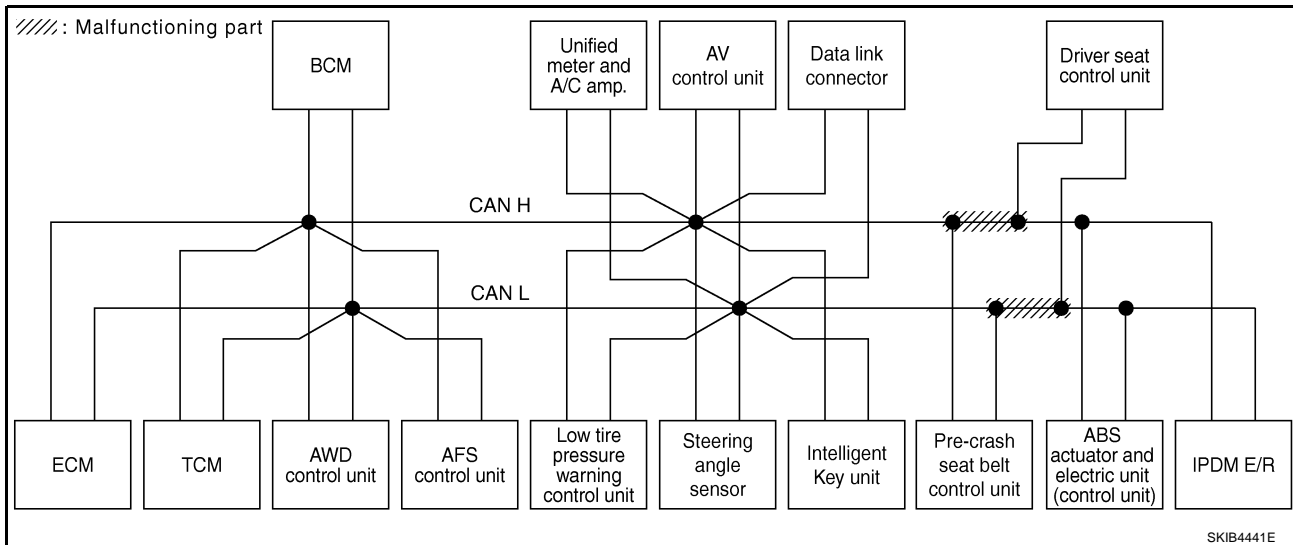
[CAN]

## Case 3

Check harness between pre-crash seat belt control unit and driver seat control unit. Refer to [LAN-638](#).  
["Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											VDC/TCS /ABS			IPDM E/R	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV						
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	✓	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	✓	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	✓	✓	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	✓	✓	✓	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8542E



SKIB4441E

# CAN SYSTEM (TYPE 13)

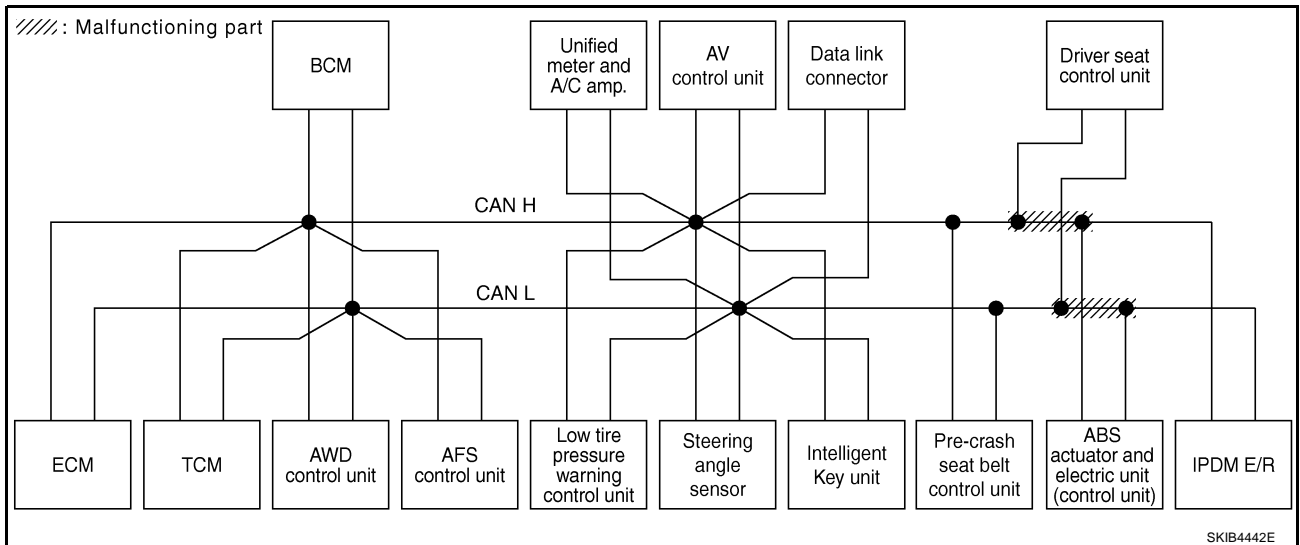
[CAN]

## Case 4

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-638, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS					
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)			
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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# CAN SYSTEM (TYPE 13)

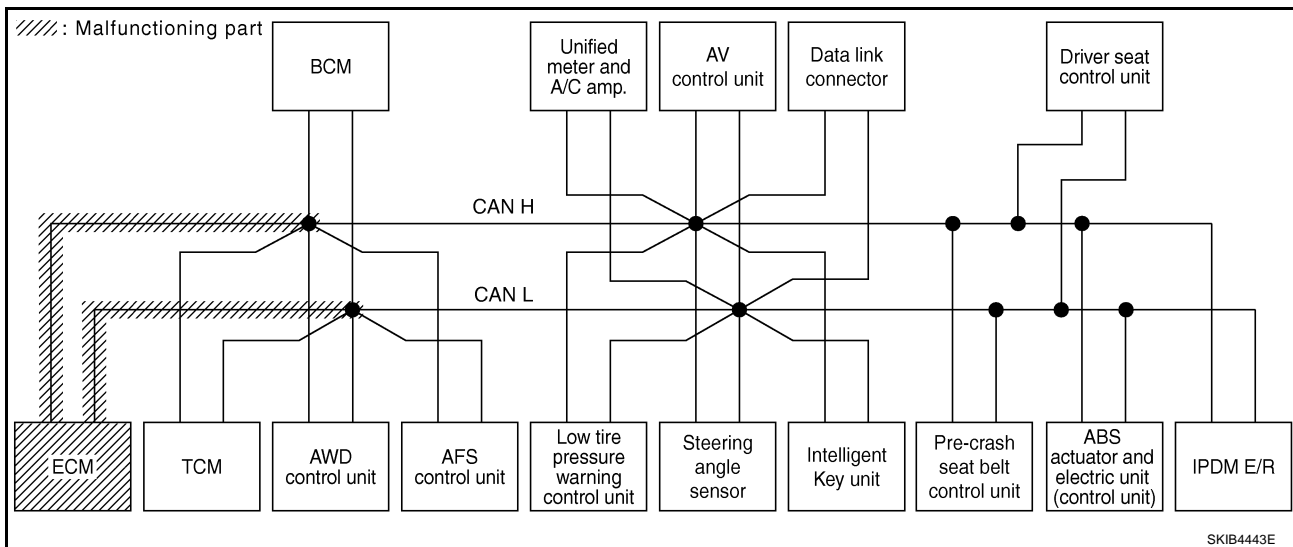
[CAN]

## Case 5

Check ECM circuit. Refer to [LAN-639, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UN <del>KN</del> ✓WN	UN <del>KN</del> ✓WN	—	UN <del>KN</del> ✓WN	—	—	—	—	UN <del>KN</del> ✓WN	—	UN <del>KN</del> ✓WN	UN <del>KN</del> ✓WN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UN <del>KN</del> ✓WN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UN <del>KN</del> ✓WN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UN <del>KN</del> ✓WN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UN <del>KN</del> ✓WN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UN <del>KN</del> ✓WN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UN <del>KN</del> ✓WN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UN <del>KN</del> ✓WN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UN <del>KN</del> ✓WN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	—	UN <del>KN</del> ✓WN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UN <del>KN</del> ✓WN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UN <del>KN</del> ✓WN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

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# CAN SYSTEM (TYPE 13)

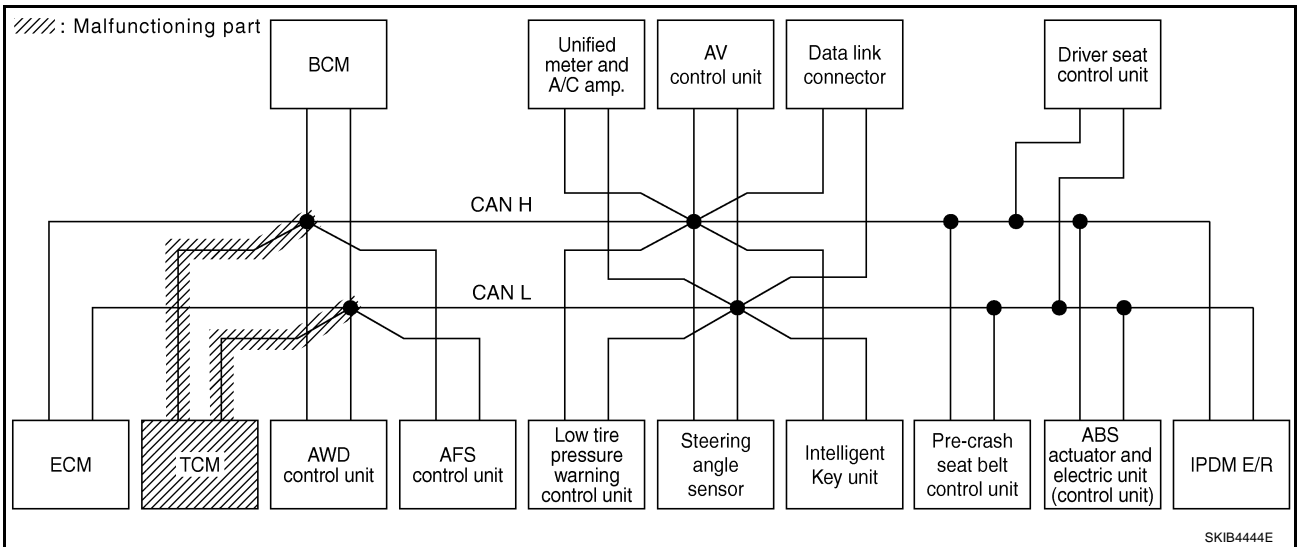
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## Case 6

Check TCM circuit. Refer to [LAN-640, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	✓	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	—
A/T	—	NG	UNKWN	✓	—	✓	—	—	—	—	—	—	UNKWN	—	✓	—	✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	✓	—	—	—	—	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	✓	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	✓	—	—	—	—	—	—	—	UNKWN	—	—	—	—	—
AUTO DRIVE POS.	No indication	NG	—	—	✓	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	✓	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—

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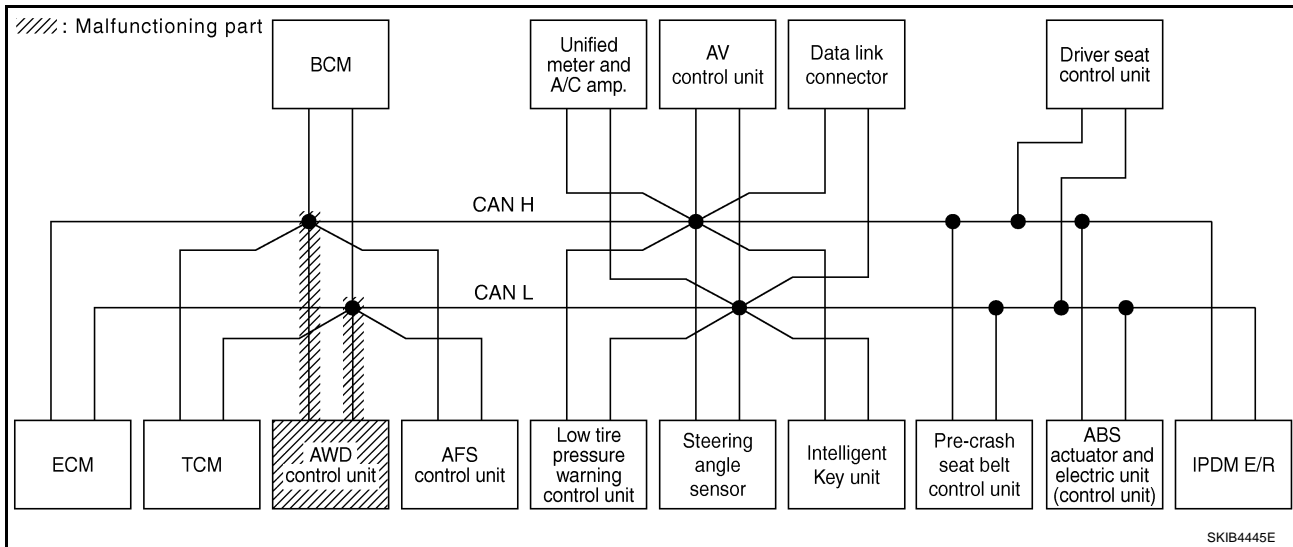
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## Case 7

Check AWD control unit circuit. Refer to [LAN-640, "AWD Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8546E



SKIB4445E

# CAN SYSTEM (TYPE 13)

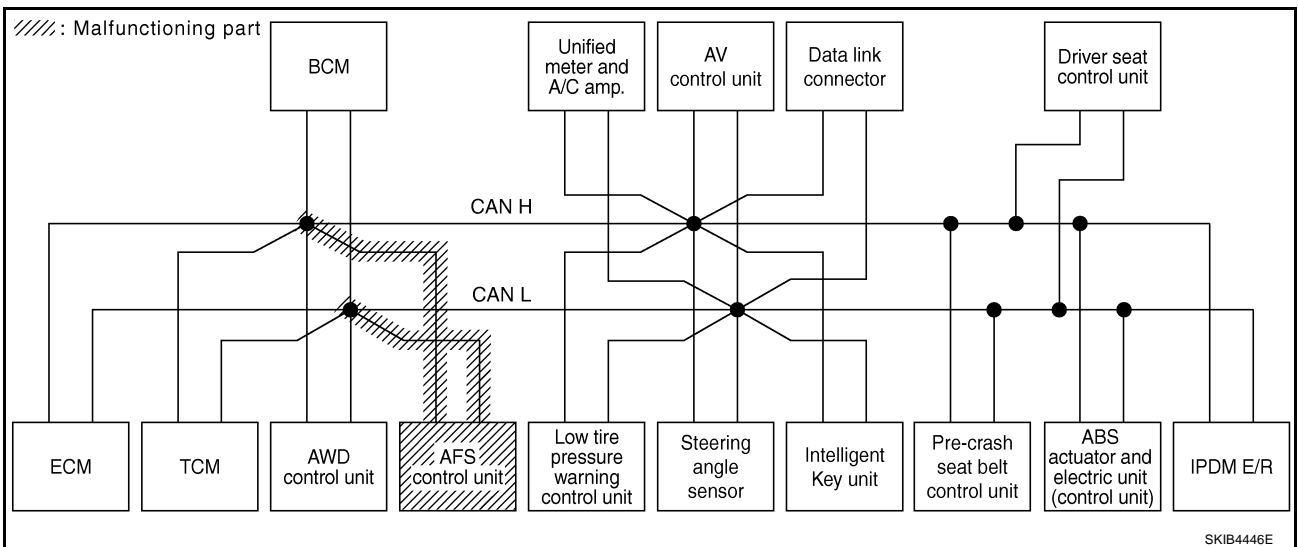
[CAN]

## Case 8

Check AFS control unit circuit. Refer to [LAN-641, "AFS Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

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SKIB4446E

# CAN SYSTEM (TYPE 13)

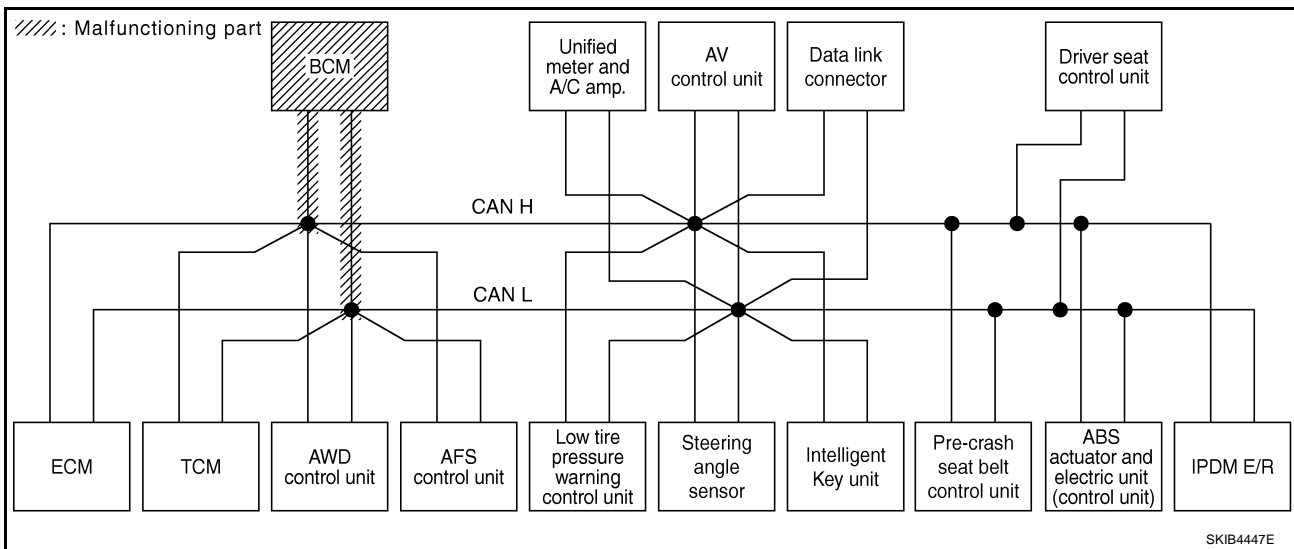
[CAN]

## Case 9

Check BCM circuit. Refer to [LAN-641, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8548E



SKIB4447E

# CAN SYSTEM (TYPE 13)

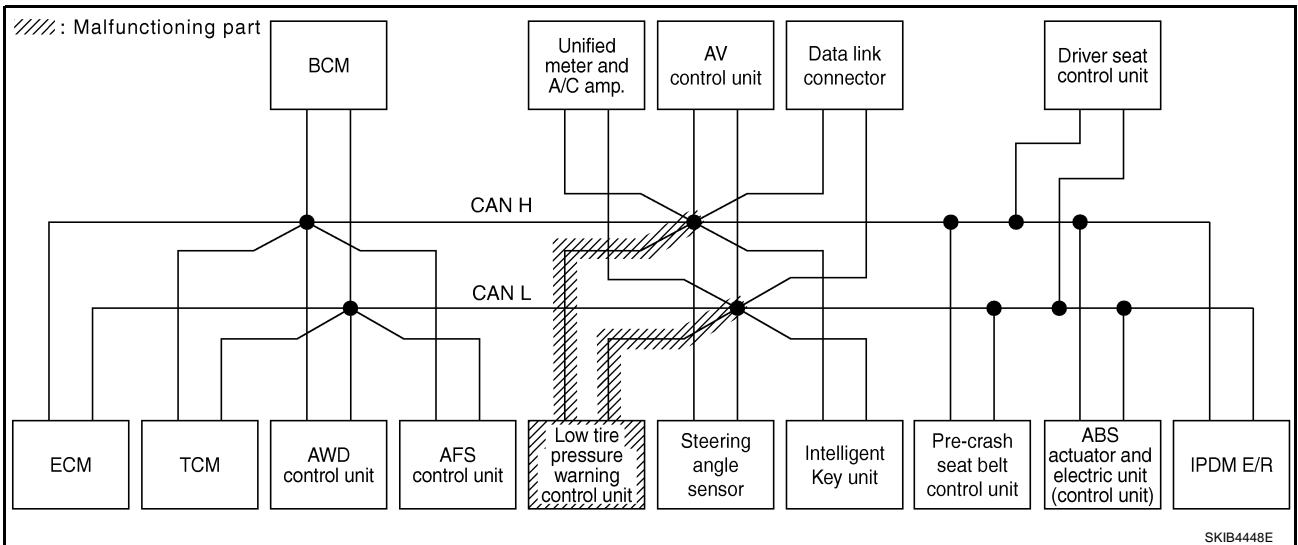
[CAN]

## Case 10

Check low tire pressure warning control unit circuit. Refer to [LAN-642, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8549E



SKIB4448E

# CAN SYSTEM (TYPE 13)

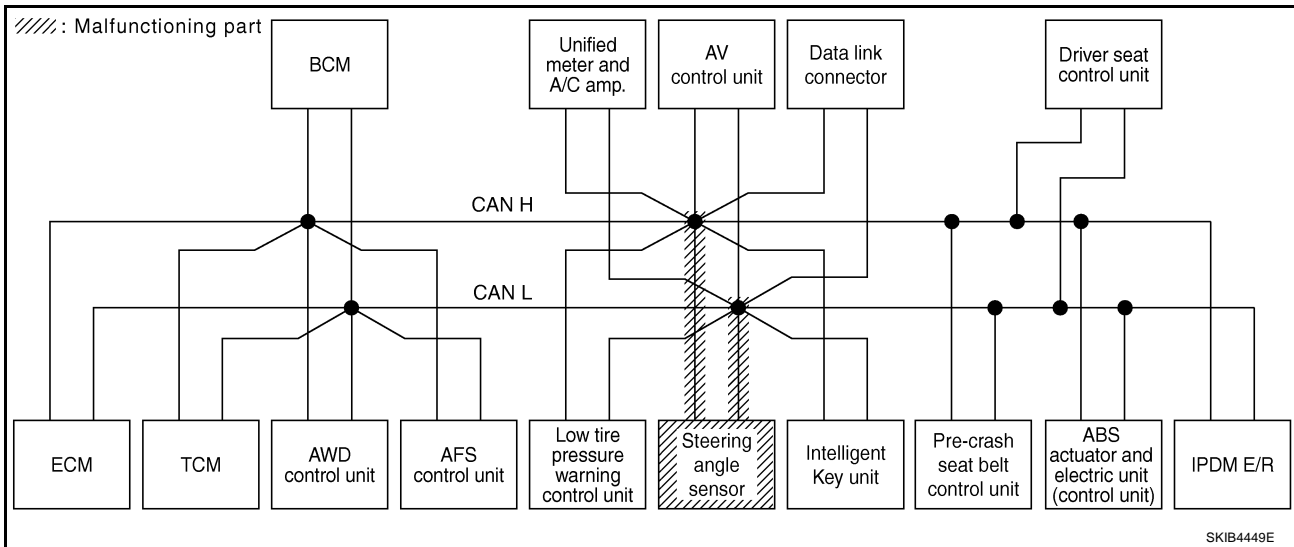
[CAN]

## Case 11

Check steering angle sensor circuit. Refer to [LAN-642, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8550E



SKIB4449E

# CAN SYSTEM (TYPE 13)

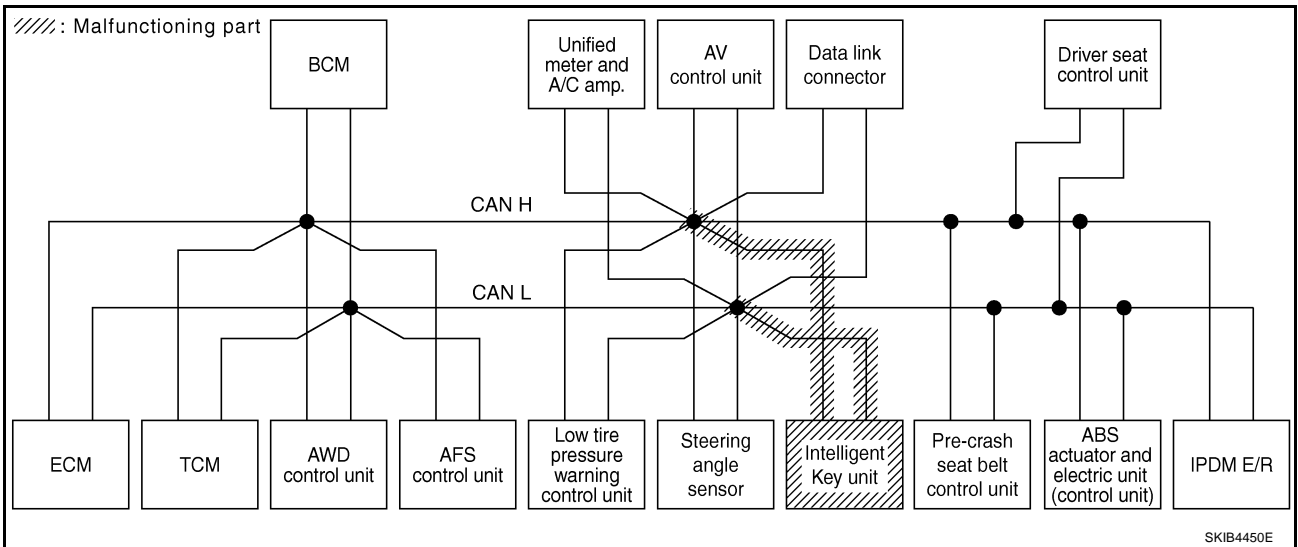
[CAN]

## Case 12

Check Intelligent Key unit circuit. Refer to [LAN-643, "Intelligent Key Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS	
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8551E



SKIB4450E

# CAN SYSTEM (TYPE 13)

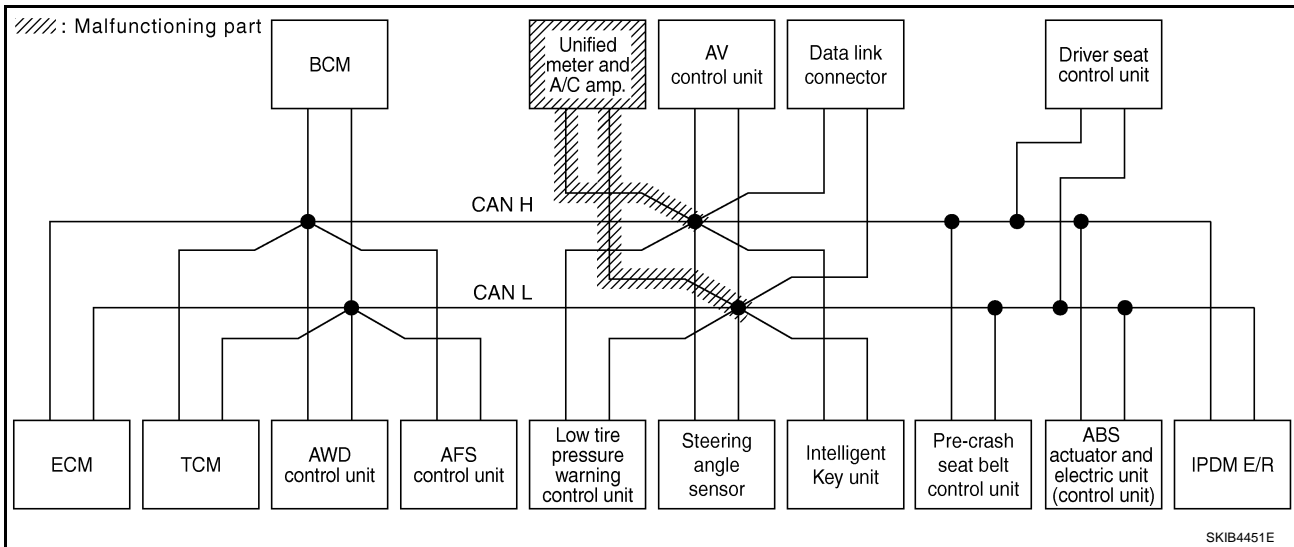
[CAN]

## Case 13

Check unified meter and A/C amp. circuit. Refer to [LAN-643, "Unified Meter and A/C Amp. Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis															
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB852E



SKIB4451E



# CAN SYSTEM (TYPE 13)

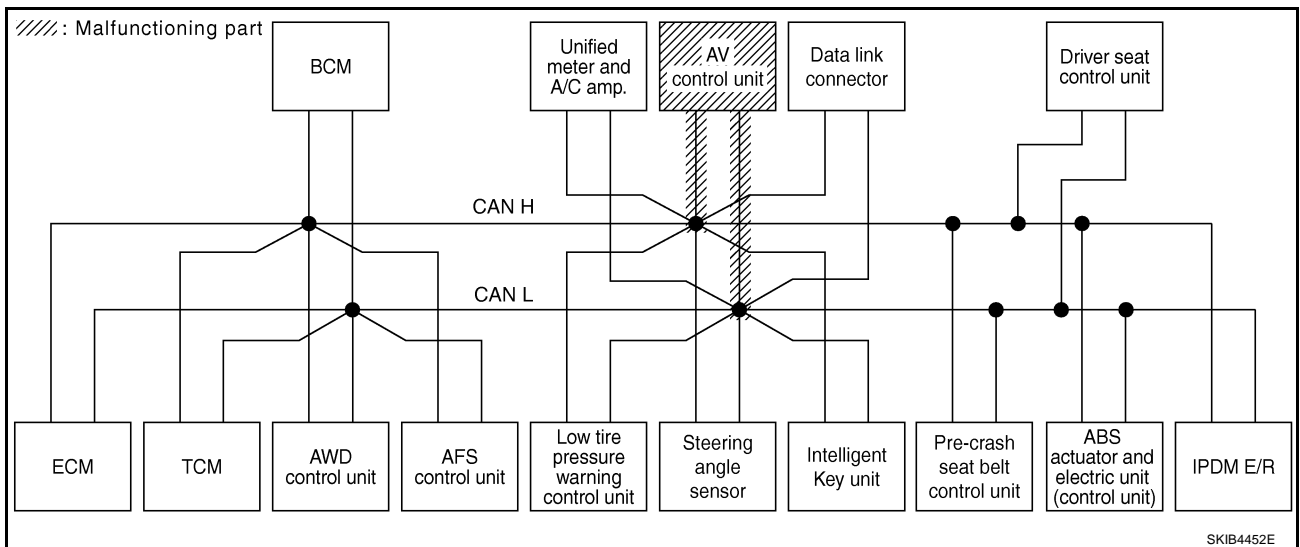
[CAN]

## Case 14

Check AV control unit circuit. Refer to [LAN-644, "AV Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTN															SELF-DIAG RESULTS	
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8553E



SKIB4452E

# CAN SYSTEM (TYPE 13)

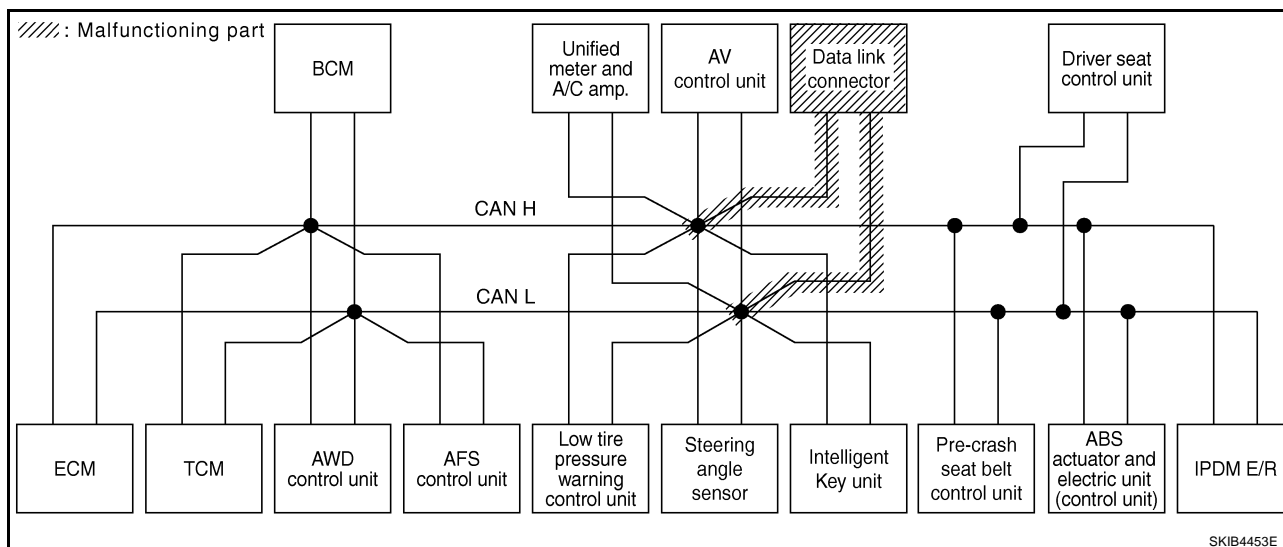
[CAN]

## Case 15

Check data link connector circuit. Refer to [LAN-644, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8554E



SKIB4453E

# CAN SYSTEM (TYPE 13)

[CAN]

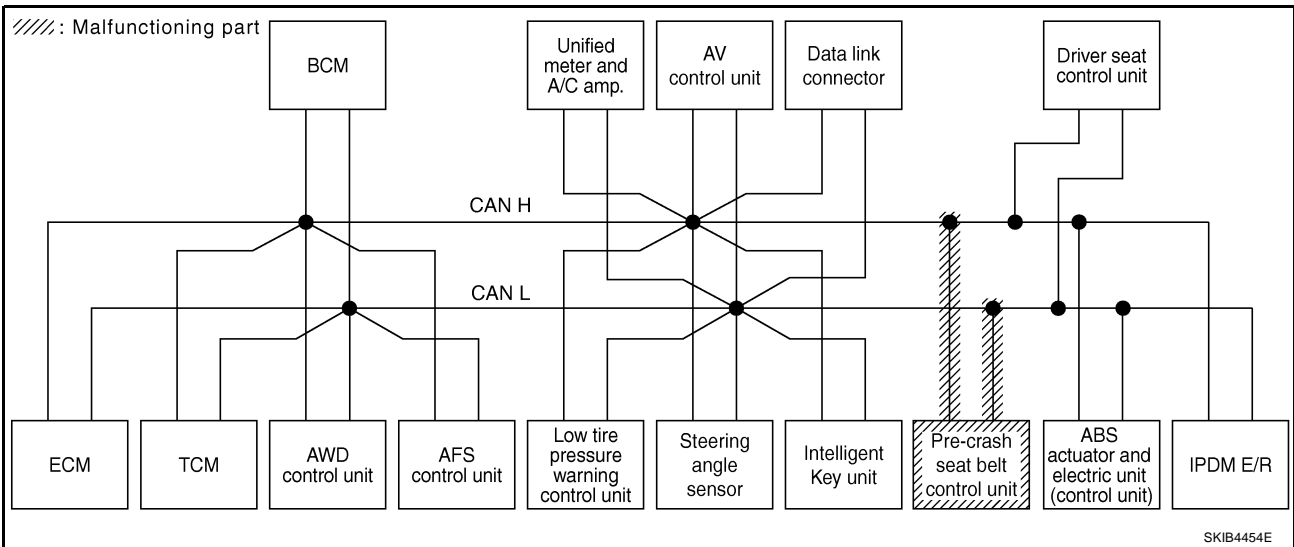
## Case 16

Check pre-crash seat belt control unit circuit. Refer to [LAN-645, "Pre-Crash Seat Belt Control Unit Circuit Inspection"](#).

A  
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D  
E  
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J  
L  
M

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8555E



SKIB4454E

LAN

# CAN SYSTEM (TYPE 13)

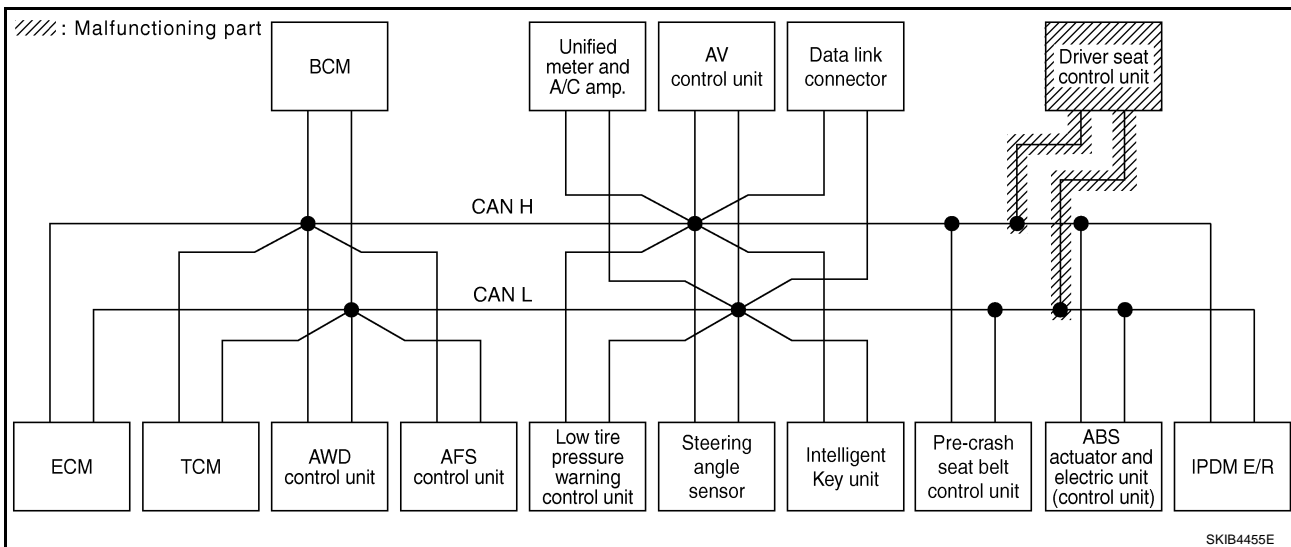
[CAN]

## Case 17

Check driver seat control unit circuit. Refer to [LAN-645, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8556E



SKIB4455E

# CAN SYSTEM (TYPE 13)

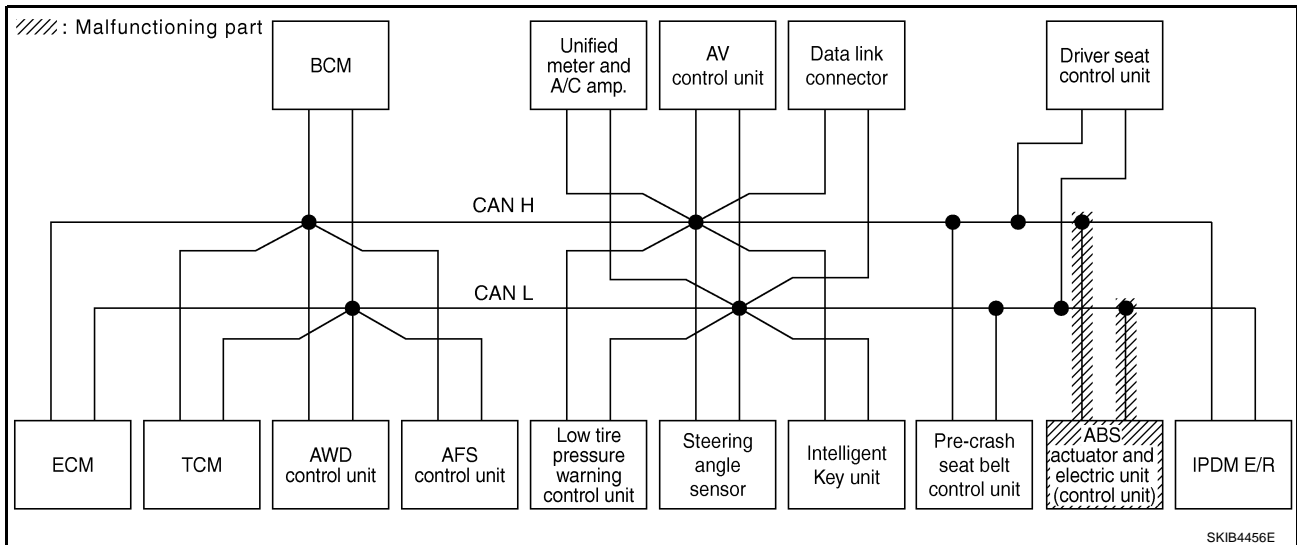
[CAN]

## Case 18

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-646, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	✓	✓	✓	✓	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8557E



LAN

# CAN SYSTEM (TYPE 13)

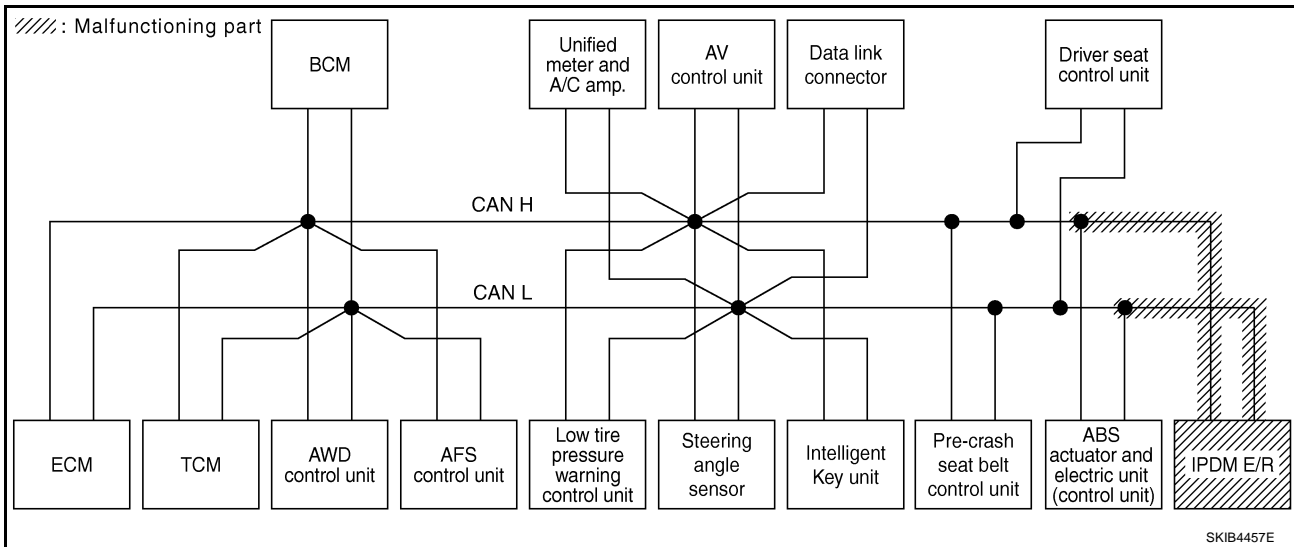
[CAN]

## Case 19

Check IPDM E/R circuit. Refer to [LAN-646, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8558E



SKIB4457E

# CAN SYSTEM (TYPE 13)

[CAN]

## Case 20

Check CAN communication circuit. Refer to [LAN-647, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R			
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKW	—	✓	✓	—	✓	—	—	—	—	✓	—	✓	✓	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	✓	—	✓	—	—	—	—	—	—	✓	—	✓	—	CAN COMM CIRCUIT (U100)	—
ALL MODE AWD/4WD	—	NG	✓	UNKW	—	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	✓	✓	✓	✓	—	—	—	✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8559E

## Case 21

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-655, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R			
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKW	—	✓	✓	—	UNKW	—	—	—	—	UNKW	—	✓	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	✓	—	—	—	—	✓	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	✓	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	✓	—	—	UNKW	—	—	—	—	UNKW	—	✓	UNKW	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	✓	✓	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	✓	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	✓	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	✓	—	—	UNKW	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8560E

## Case 22

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-655, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8561E

## Inspection Between TCM and Data Link Connector Circuit

NKS00463

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

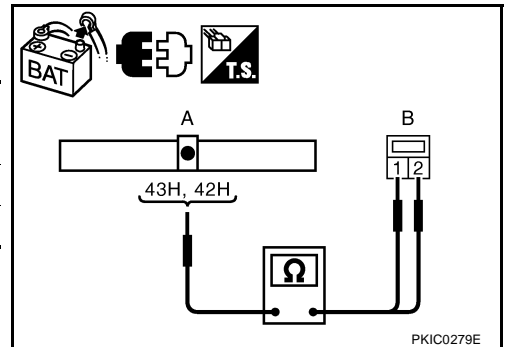
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.  
 NG >> Repair harness.





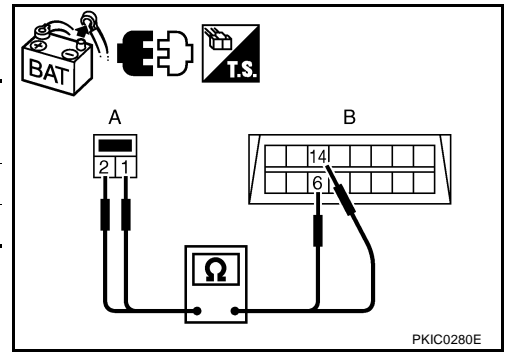
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit

NKS00464

#### 1. CHECK CONNECTOR

- Turn ignition switch OFF.
- Disconnect the battery cable from the negative terminal.
- Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

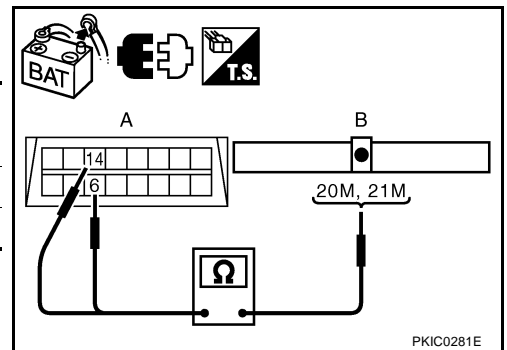
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect harness connector M13.
- Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

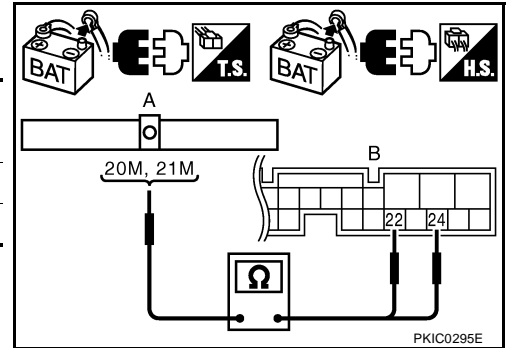
### 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check continuity between harness connector (A) and pre-crash seat belt control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B142	24	Yes
	21M		22	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



### Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

NKS00465

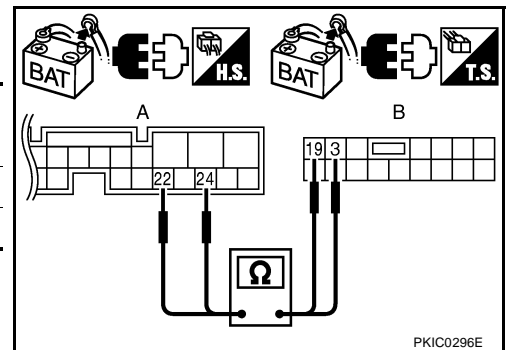
#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - Pre-crash seat belt control unit connector
  - harness connector B15
4. Check continuity between pre-crash seat belt control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B142	24	B15	3	Yes
	22		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



### Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS00466

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

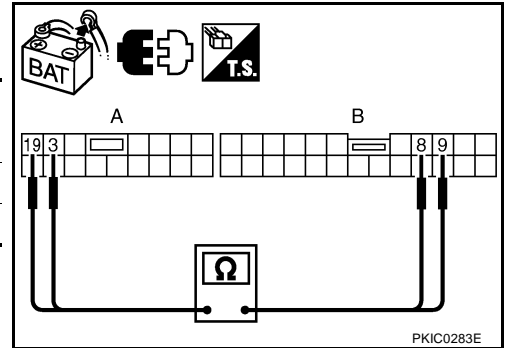
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

**OK or NG**

- OK >> GO TO 3.
- NG >> Replace harness.



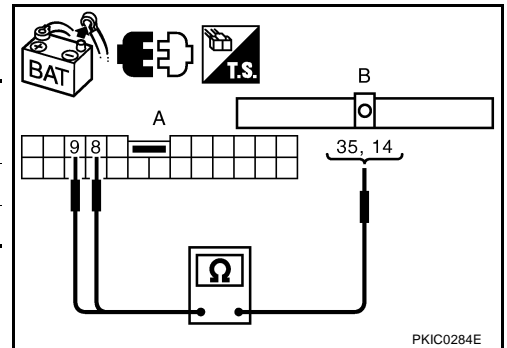
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



## ECM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

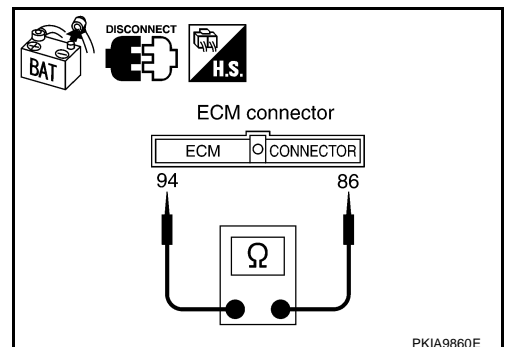
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

**OK or NG**

- OK >> Replace ECM.
- NG >> Repair harness between ECM and A/T assembly.



**TCM Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

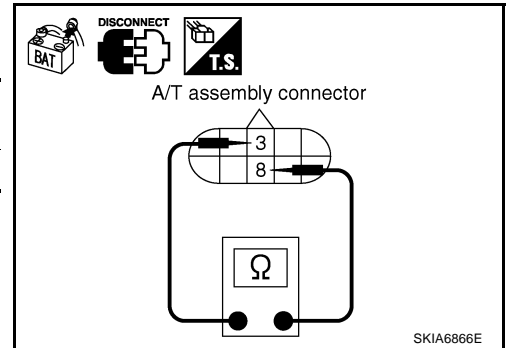
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.  
 NG >> Repair harness between A/T assembly and AWD control unit.

**AWD Control Unit Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AWD control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

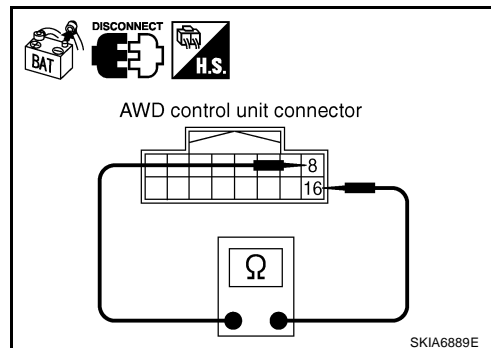
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector terminals.

AWD control unit connector	Terminal		Resistance (Approx.)
F109	8	16	54 – 66 Ω

**OK or NG**

- OK >> Replace AWD control unit.
- NG >> Repair harness between AWD control unit and AFS control unit.



NKS0046A

## AFS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

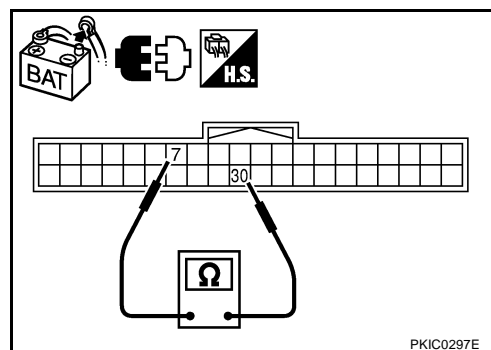
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
F110	30	7	54 – 66 Ω

**OK or NG**

- OK >> Replace AFS control unit.
- NG >> Repair harness between AFS control unit and BCM.



NKS0046B

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

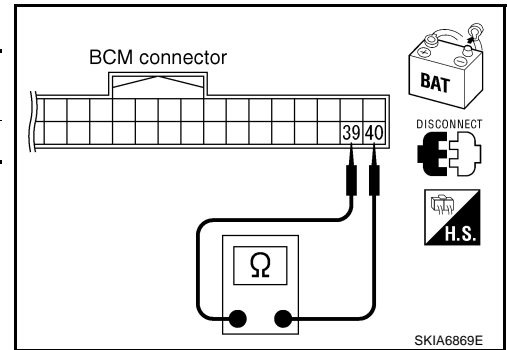
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

### OK or NG

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#) .
- NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

NKS0046C

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

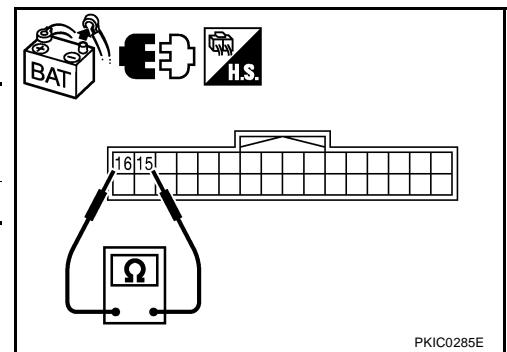
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

### OK or NG

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS0046D

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

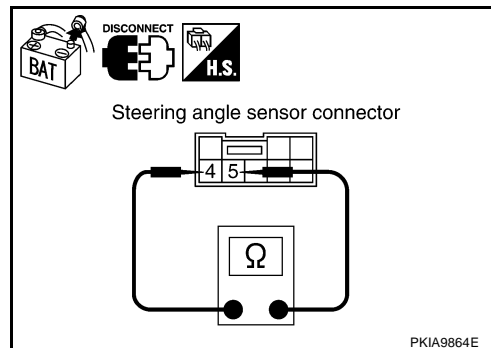
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	4	5	54 – 66 Ω

**OK or NG**

- OK >> Replace steering angle sensor.
- NG >> Repair harness between steering angle sensor and data link connector.



NKS0046E

## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

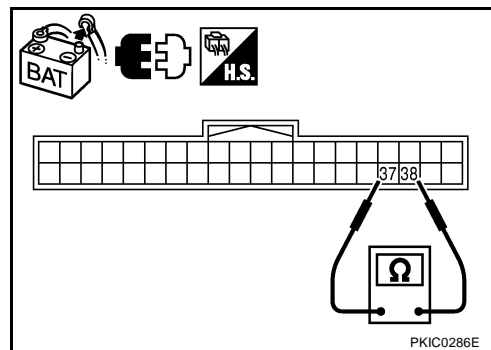
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
M32	38	37	54 – 66 Ω

**OK or NG**

- OK >> Replace Intelligent Key unit.
- NG >> Repair harness between Intelligent Key unit and data link connector.



NKS0046F

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

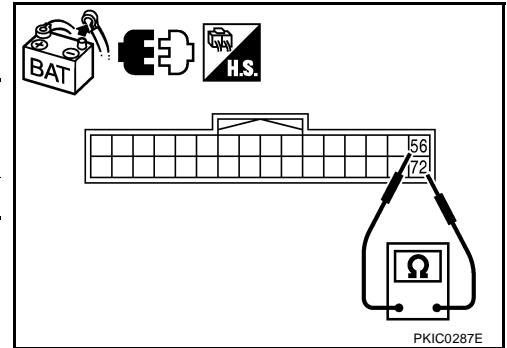
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
	56	72	
M65	56	72	54 – 66 Ω

### OK or NG

- OK >> Replace unified meter and A/C amp.  
 NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS0046G

## AV Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AV control unit connector
  - Harness connector M216
  - Harness connector M53

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

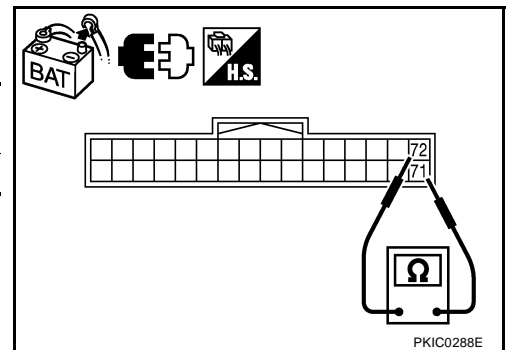
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AV control unit connector.
2. Check resistance between AV control unit harness connector terminals.

AV control unit connector	Terminal		Resistance (Approx.)
	71	72	
M210	71	72	54 – 66 Ω

### OK or NG

- OK >> Replace AV control unit.  
 NG >> Repair harness between AV control unit and data link connector.



NKS0046H

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.



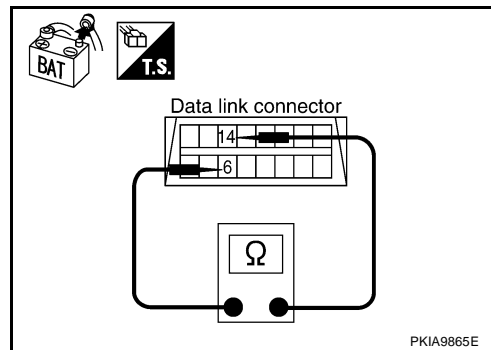
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

### OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



## Pre-Crash Seat Belt Control Unit Circuit Inspection

NKS0046I

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of pre-crash seat belt control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

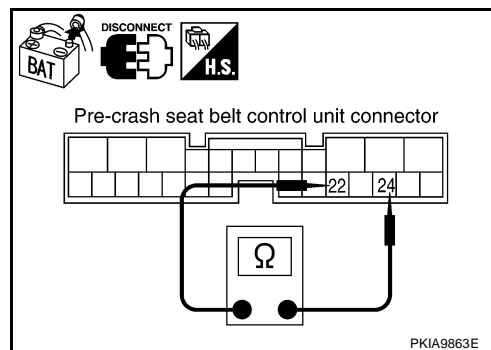
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check resistance between pre-crash seat belt control unit harness connector terminals.

Pre-crash seat belt control unit connector	Terminal		Resistance (Approx.)
B142	24	22	54 – 66 Ω

### OK or NG

- OK >> Replace pre-crash seat belt control unit.
- NG >> Replace harness.



NKS0046J

## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

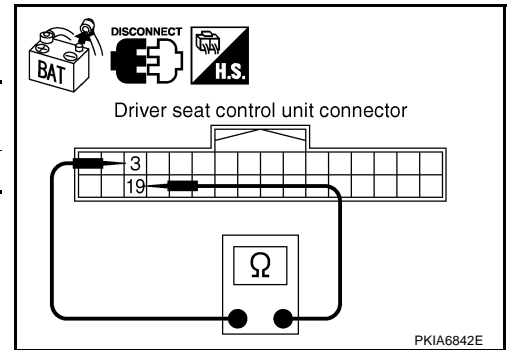
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

### OK or NG

- OK >> Replace driver seat control unit.  
 NG >> Replace harness.



## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

NKS0046K

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

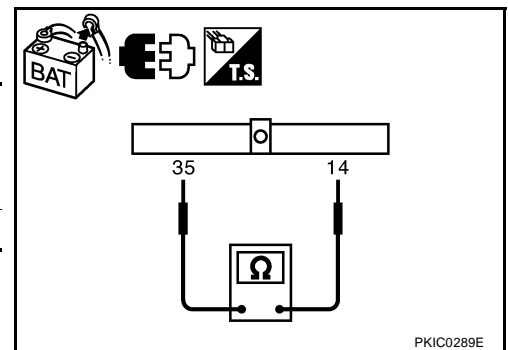
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

### OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).  
 NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



## IPDM E/R Circuit Inspection

NKS0046L

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

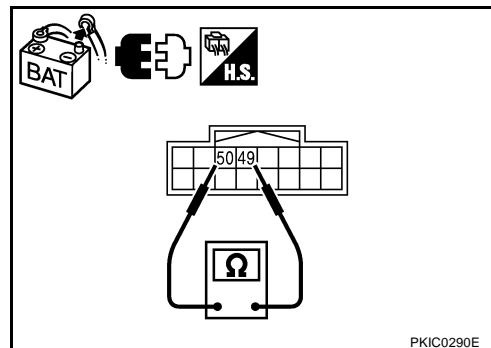
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

### OK or NG

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and harness connector E105.



NKS0046M

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AWD control unit
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
  - Between ECM and A/T assembly
  - Between ECM and AWD control unit
  - Between ECM and AFS control unit
  - Between ECM and AV control unit
  - Between ECM and driver seat control unit
  - Between ECM and IPDM E/R

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

LAN

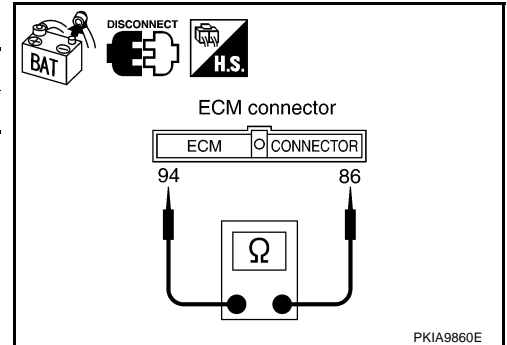
## 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



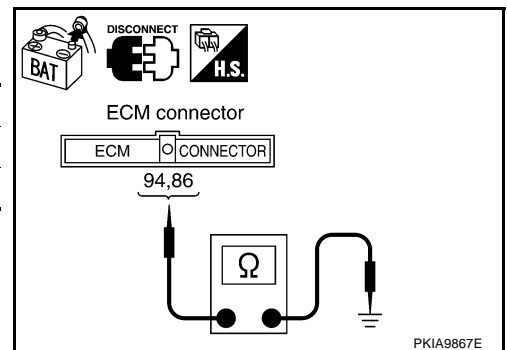
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		No
	86	No	

**OK or NG**

- OK >> GO TO 4.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



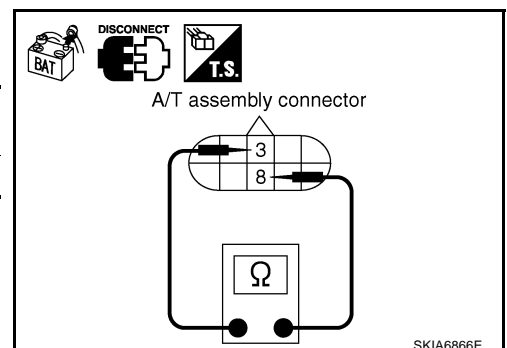
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.  
 NG >> Repair harness between A/T assembly and harness connector F102.



### 5. CHECK HARNESS FOR SHORT CIRCUIT

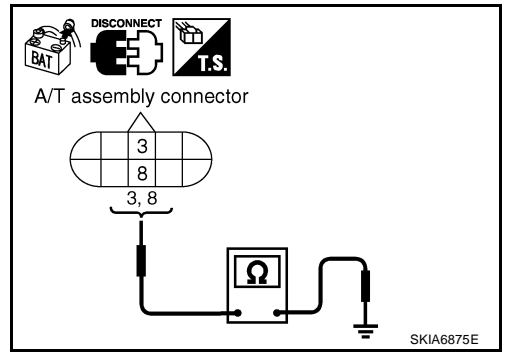
Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		No
	8	No	

OK or NG

OK >> GO TO 6.

NG >> Repair harness between A/T assembly and harness connector F102.



### 6. CHECK HARNESS FOR SHORT CIRCUIT

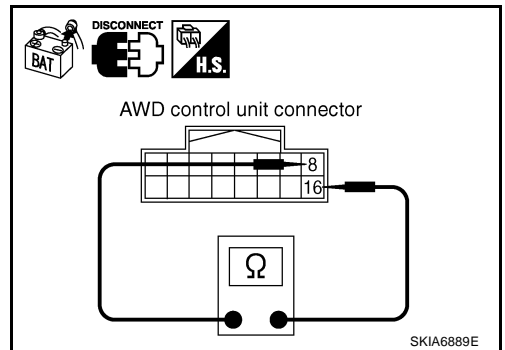
1. Disconnect AWD control unit connector.
2. Check continuity between AWD control unit harness connector terminals.

AWD control unit connector	Terminal	Continuity
F109	8, 16	No

OK or NG

OK >> GO TO 7.

NG >> Repair harness between AWD control unit and harness connector F102.



### 7. CHECK HARNESS FOR SHORT CIRCUIT

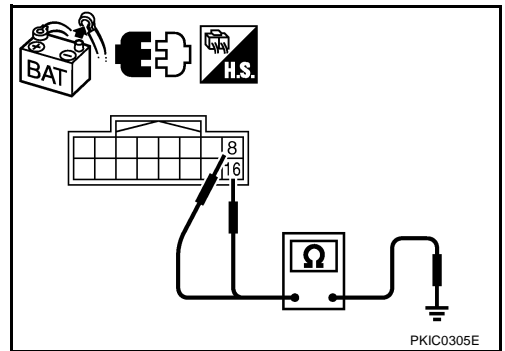
Check continuity between AWD control unit harness connector terminals and ground.

AWD control unit connector	Terminal	Ground	Continuity
F109	8		No
	16	No	

OK or NG

OK >> GO TO 8.

NG >> Replace harness between AWD control unit and harness connector F102.



### 8. CHECK HARNESS FOR SHORT CIRCUIT

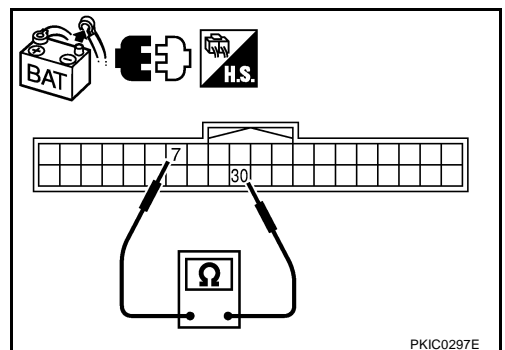
1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal	Continuity
F110	30, 7	No

OK or NG

OK >> GO TO 9.

NG >> Repair harness between AFS control unit and harness connector F102.



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

## 9. CHECK HARNESS FOR SHORT CIRCUIT

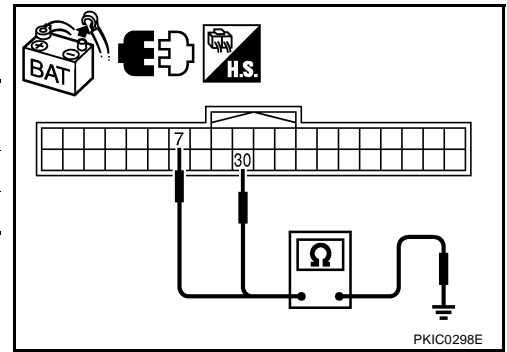
Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		
	7	No	

**OK or NG**

OK >> GO TO 10.

NG >> Replace harness between AFS control unit and harness connector F102.



## 10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
2. Check continuity between data link connector terminals.

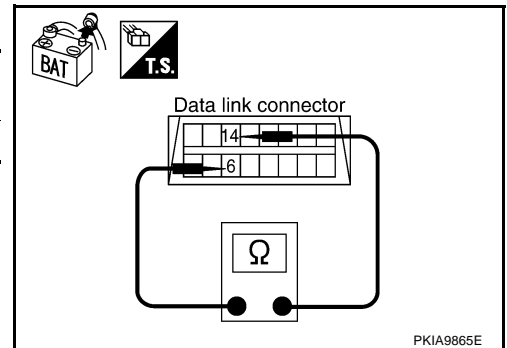
Data link connector	Terminal		Continuity
M60	6	14	No

**OK or NG**

OK >> GO TO 11.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

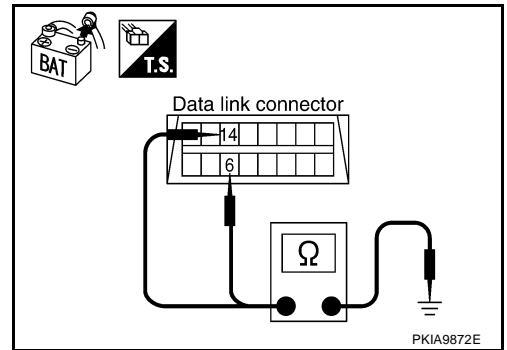
Data link connector	Terminal	Ground	Continuity
M60	6		
	14	No	

**OK or NG**

OK >> GO TO 12.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



## 12. CHECK HARNESS FOR SHORT CIRCUIT

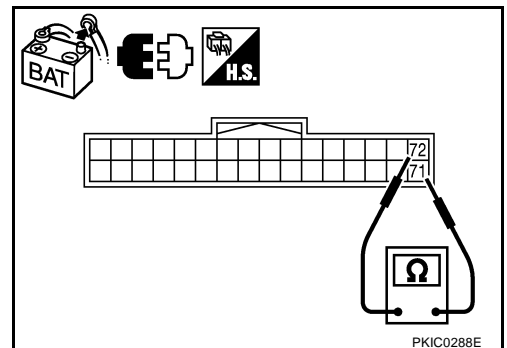
1. Disconnect AV control unit connector.
2. Check continuity between AV control unit harness connector terminals.

AV control unit connector	Terminal	Continuity
M210	71, 72	No

**OK or NG**

OK >> GO TO 13.

NG >> Repair harness between AV control unit and harness connector M216.



## 13. CHECK HARNESS FOR SHORT CIRCUIT

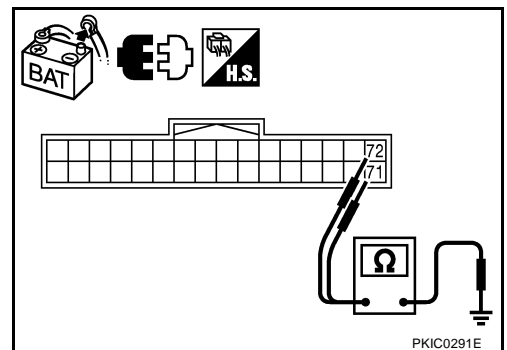
Check continuity between AV control unit harness connector terminals and ground.

AV control unit connector	Terminal	Ground	Continuity
M210	71		
	72	No	

**OK or NG**

OK >> GO TO 14.

NG >> Repair harness between AV control unit and harness connector M216.



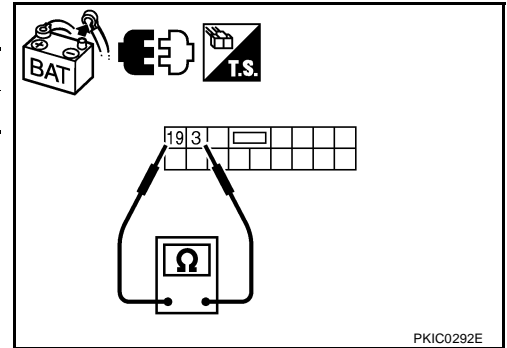
## 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Pre-crash seat belt control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 15.
- NG >> Replace harness.



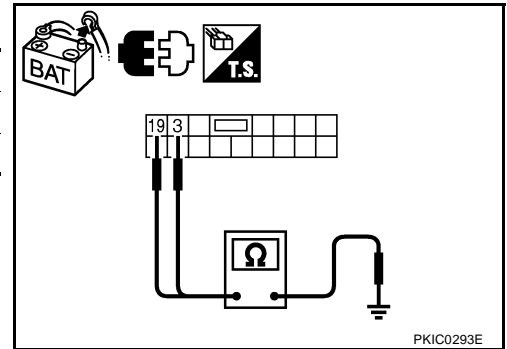
## 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3	Ground	No
	19		No

**OK or NG**

- OK >> GO TO 16.
- NG >> Replace harness.



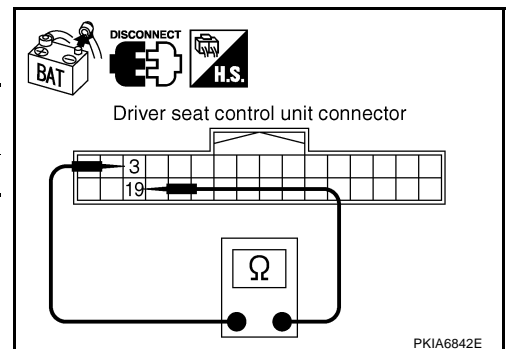
## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Continuity
B204	3	19	No

**OK or NG**

- OK >> GO TO 17.
- NG >> Repair harness between driver seat control unit and harness connector B202.





## 17. CHECK HARNESS FOR SHORT CIRCUIT

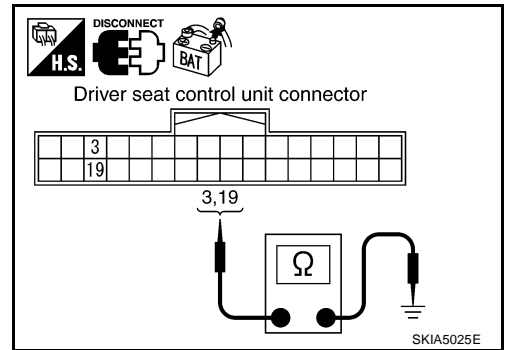
Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		No
	19	No	

OK or NG

OK >> GO TO 18.

NG >> Repair harness between driver seat control unit and harness connector B202.



## 18. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

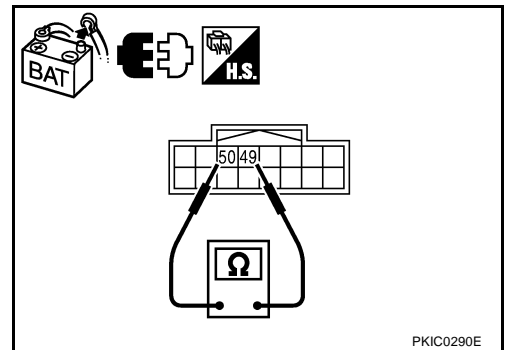
IPDM E/R connector	Terminal	Continuity
E9	49 50	No

OK or NG

OK >> GO TO 19.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



## 19. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

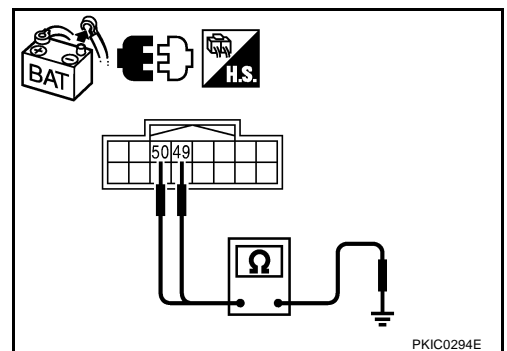
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		No
	50	No	

OK or NG

OK >> GO TO 20.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



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C  
D  
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I  
J  
LAN  
L  
M

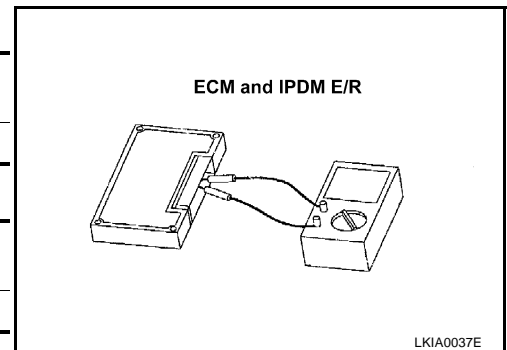
## 20. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω



OK or NG

- OK >> GO TO 21.  
 NG >> Replace ECM and/or IPDM E/R.

## 21. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

OK or NG

- OK >> GO TO 22.  
 NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 22. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AWD control unit
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - AV control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

Check results

- Reproduce>>Install removed unit, and then check the other unit.  
 Not reproduced>>Replace removed unit.

## IPDM E/R Ignition Relay Circuit Inspection

NKS0046N

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" "](#) .

A

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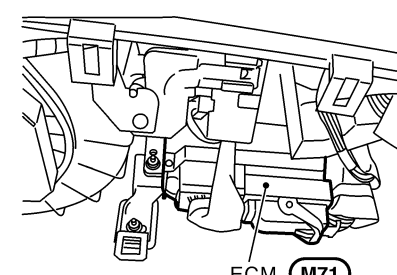
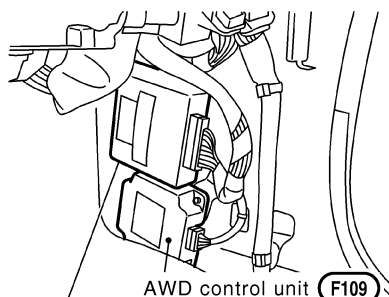
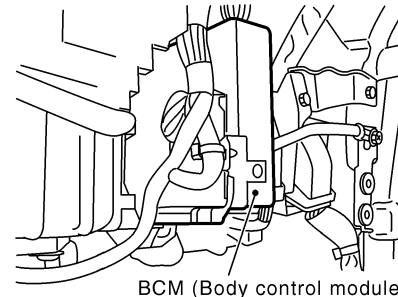
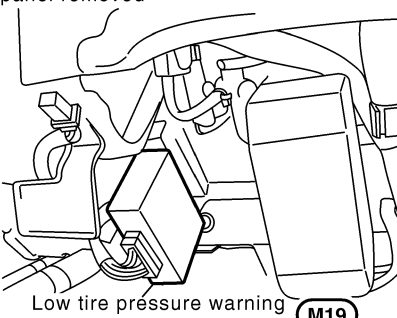
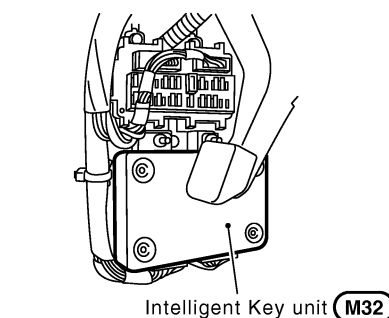
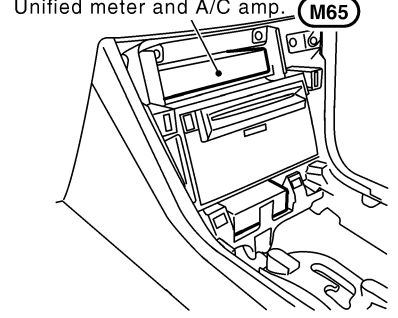
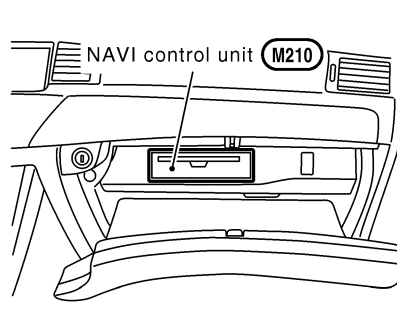
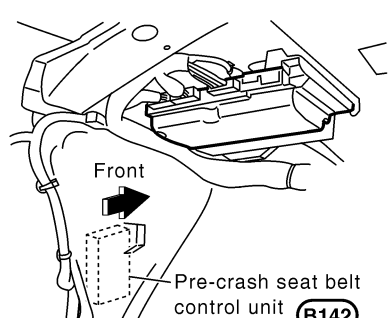
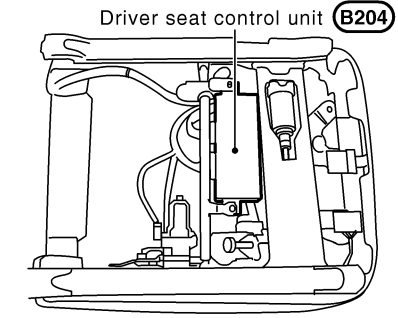
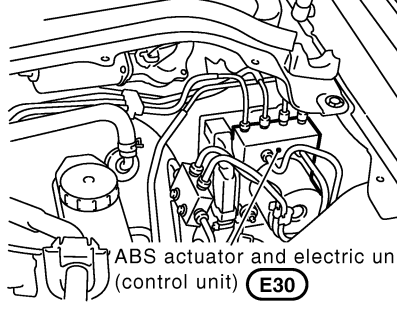
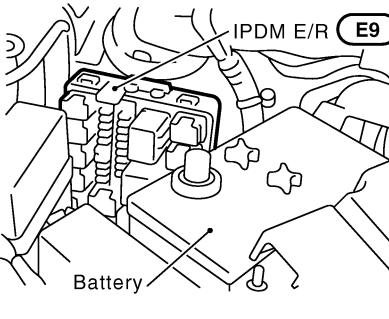
LAN

L

M

## CAN SYSTEM (TYPE 14)

### Component Parts and Harness Connector Location

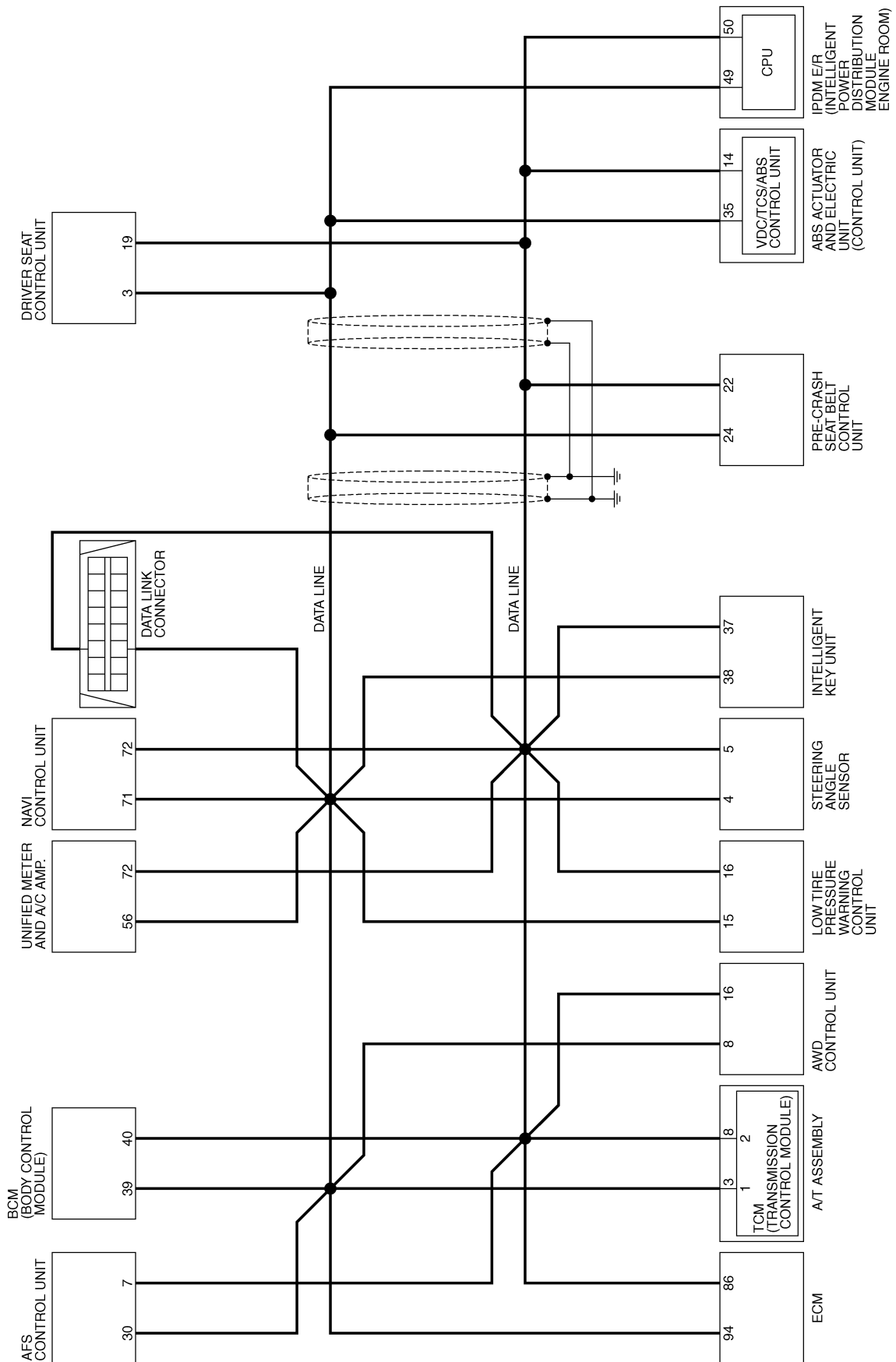
<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AWD control unit (F109) AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>	<p>View with cluster lid C removed</p>  <p>Unified meter and A/C amp. (M65)</p>
<p>Inside of glove box</p>  <p>NAVI control unit (M210)</p>	<p>View with trunk side LH finisher and front finisher removed</p>  <p>Front Pre-crash seat belt control unit (B142)</p>	<p>Under driver's seat</p>  <p>Driver seat control unit (B204)</p>
<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9) Battery</p>	

# CAN SYSTEM (TYPE 14)

[CAN]

## Schematic

NKS0046P



A  
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TKWT3308E

# CAN SYSTEM (TYPE 14)

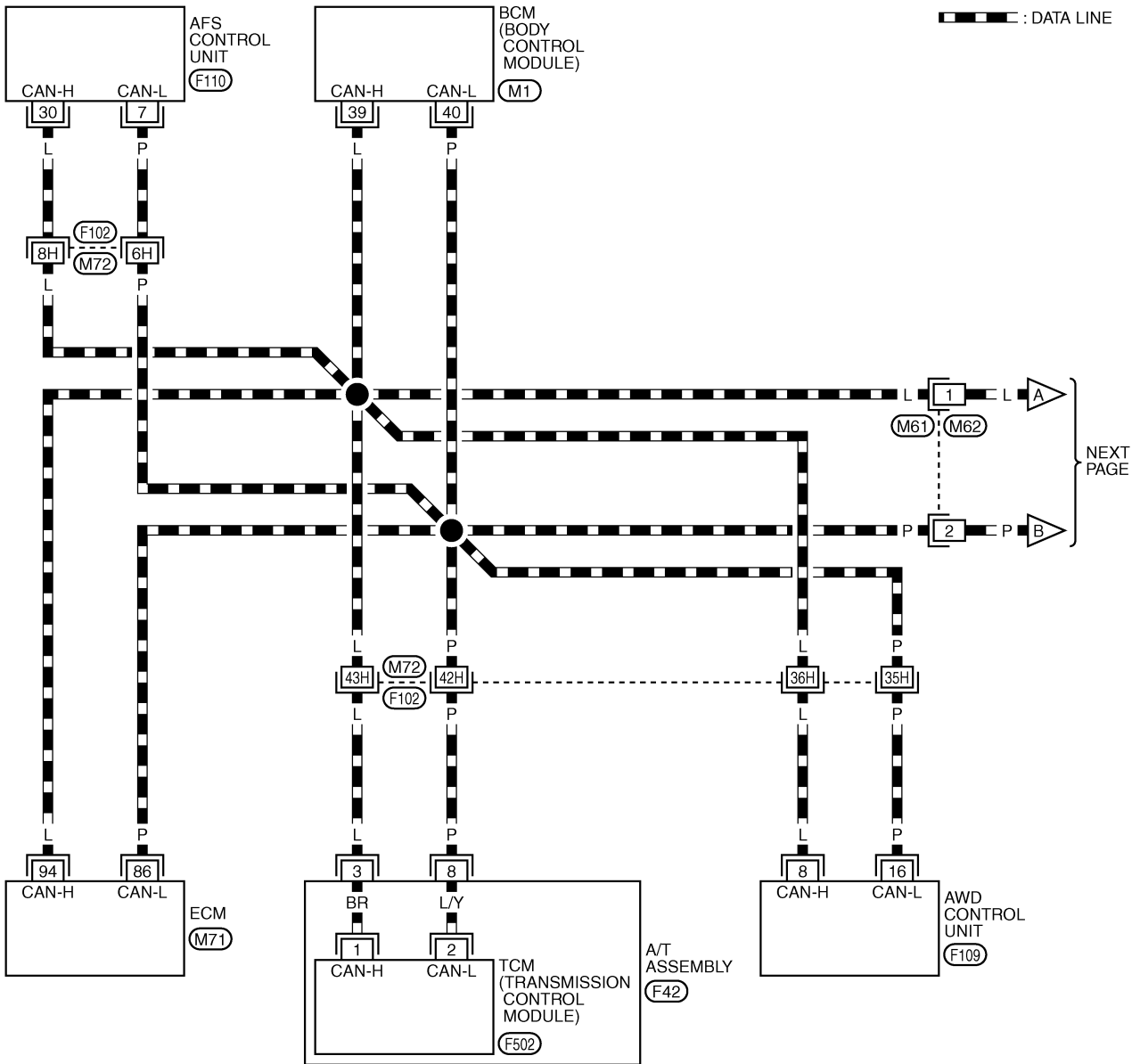
[CAN]

NKS0046Q

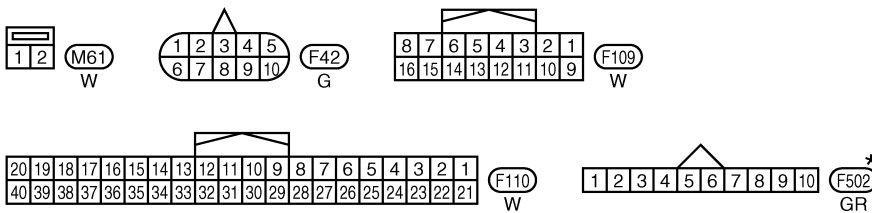
## Wiring Diagram — CAN —

LAN-CAN-49

▬ : DATA LINE



NEXT PAGE



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

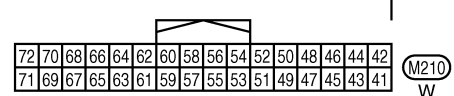
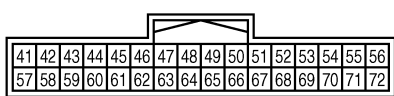
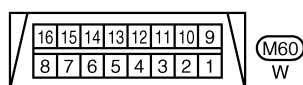
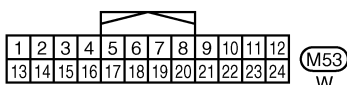
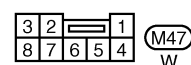
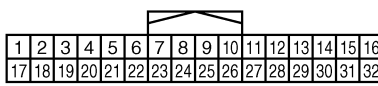
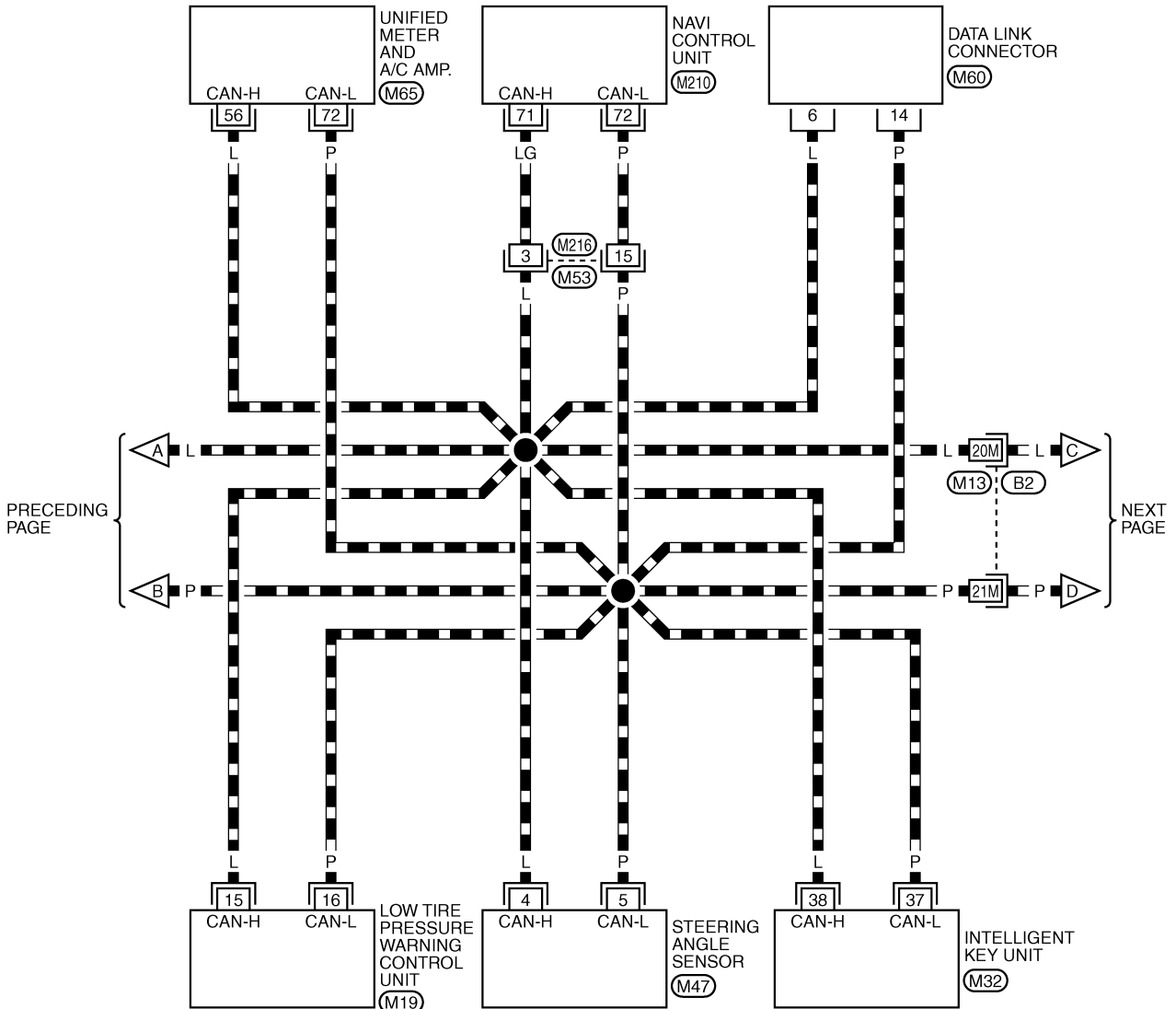
TKWT3309E

# CAN SYSTEM (TYPE 14)

[CAN]

## LAN-CAN-50

▬ : DATA LINE



REFER TO THE FOLLOWING.

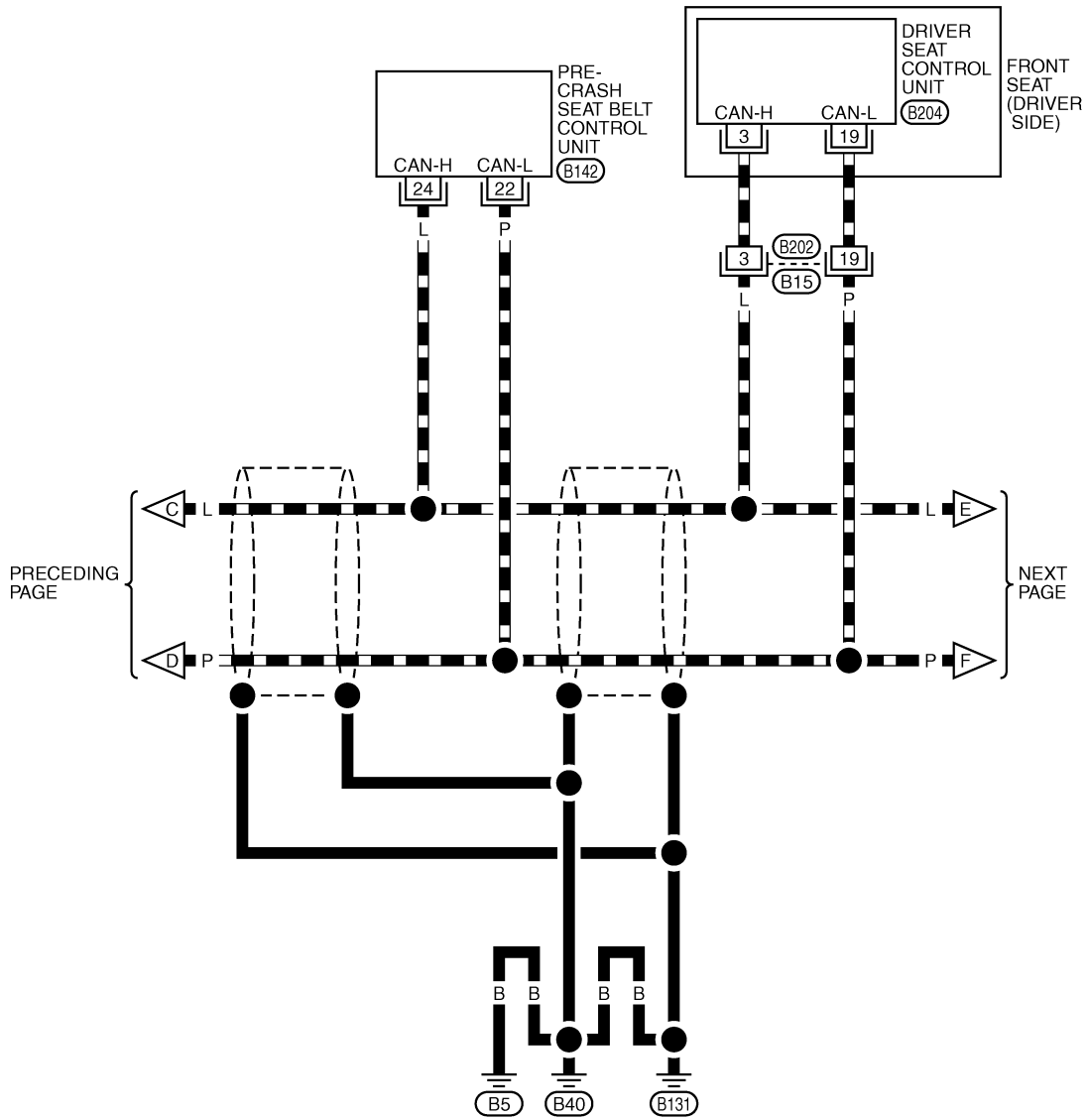
(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

TKWT3310E

## LAN-CAN-51

▬ : DATA LINE



19	3	1	17	40		
61	60	59	32	48	21	33

(B15)  
W

6	5	4	12	11	10	9	8	7	3	2	1		
26	25	24	23	22	21	20	19	18	17	16	15	14	13

(B142)  
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

(B204)  
W

H.S.

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.



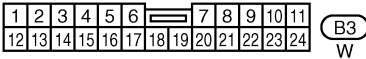
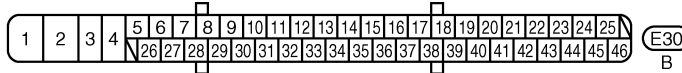
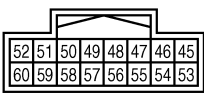
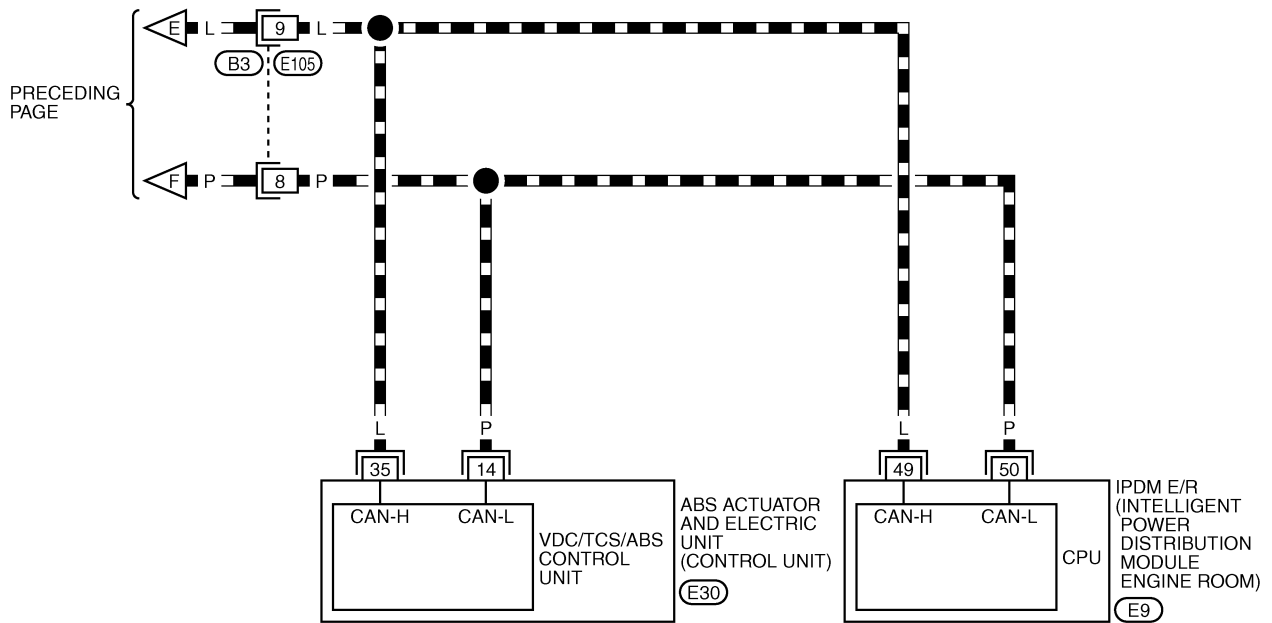
# CAN SYSTEM (TYPE 14)

[CAN]

LAN-CAN-52

▬ : DATA LINE

A  
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J  
L  
M



LAN

TKWT3312E

# CAN SYSTEM (TYPE 14)

[CAN]

NKS0046R

## Check Sheet

**NOTE:**

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIB8539E

# CAN SYSTEM (TYPE 14)

[CAN]

A  
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Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ALL MODE AWD/4WD  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
PRECRASH SEATBELT  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9569E

# CAN SYSTEM (TYPE 14)

[CAN]

Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ALL MODE AWD/4WD  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
PRECRASH SEATBELT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9570E

# CAN SYSTEM (TYPE 14)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

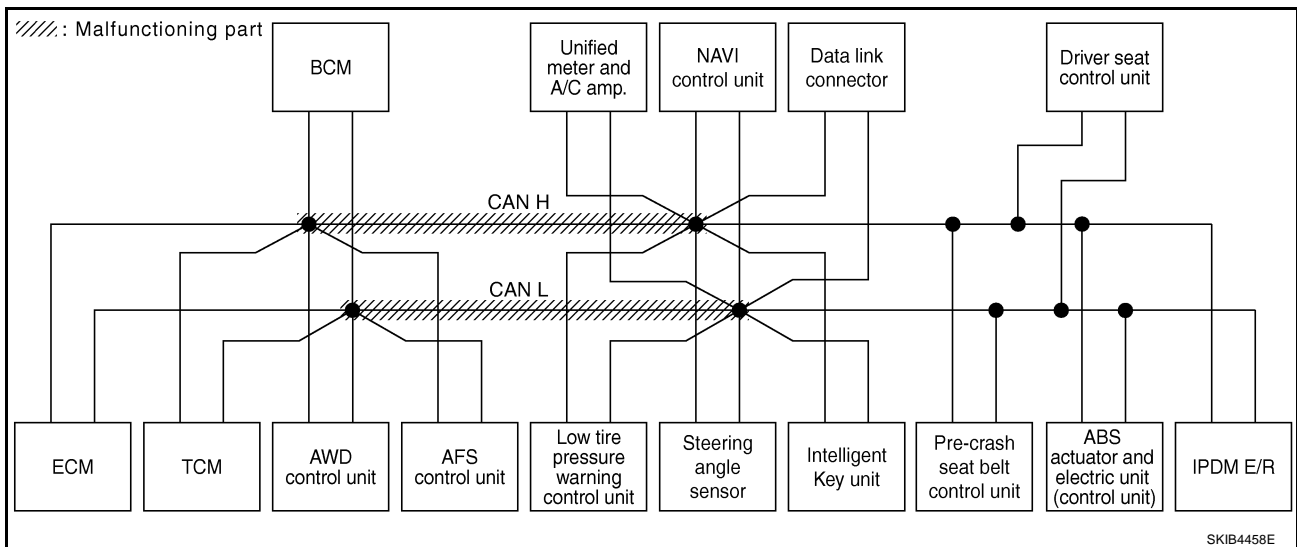
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-685, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS			IPDM E/R	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8540E



SKIB4458E

# CAN SYSTEM (TYPE 14)

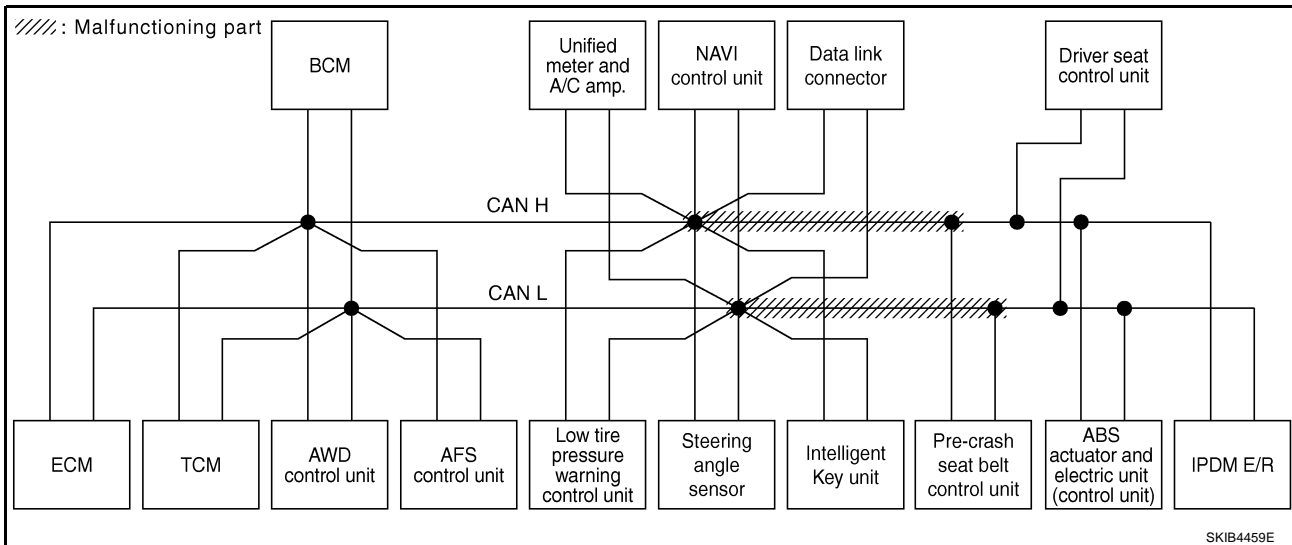
[CAN]

## Case 2

Check harness between data link connector and pre-crash seat belt control unit. Refer to [LAN-686, "Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												VDC/TCS /ABS			IPDM E/R		
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV								
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	✓	✓	✓	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8541E



SKIB4459E

# CAN SYSTEM (TYPE 14)

[CAN]

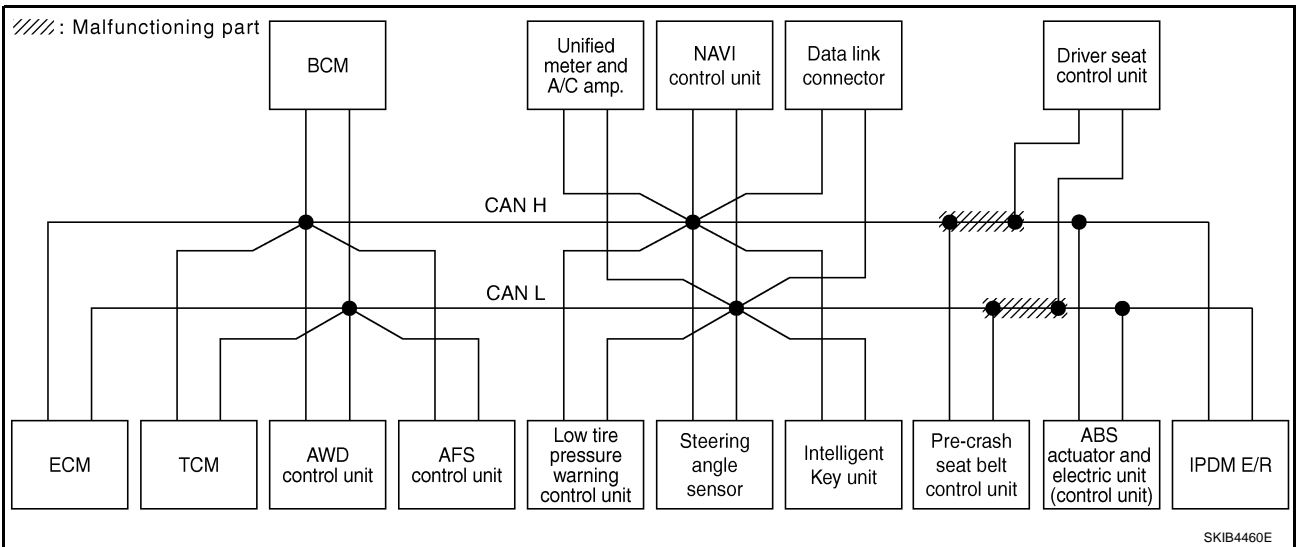
## Case 3

Check harness between pre-crash seat belt control unit and driver seat control unit. Refer to [LAN-687](#).  
"Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit" .

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SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R						
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	✓	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8542E



SKIB4460E

# CAN SYSTEM (TYPE 14)

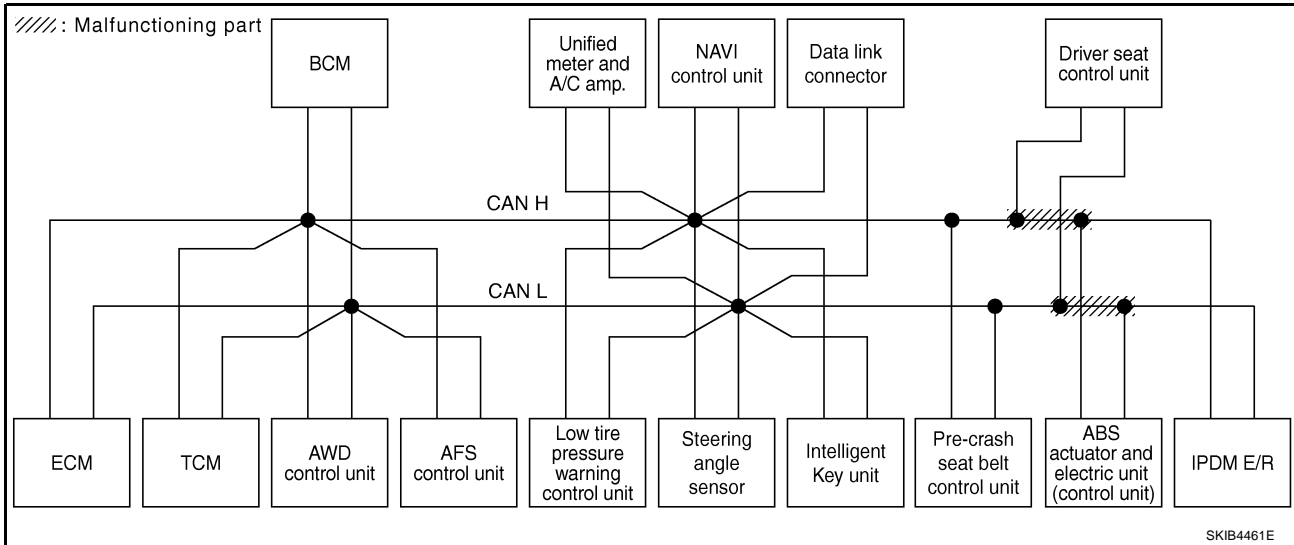
[CAN]

## Case 4

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-687, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	✓	✓	✓	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8543E



SKIB4461E





# CAN SYSTEM (TYPE 14)

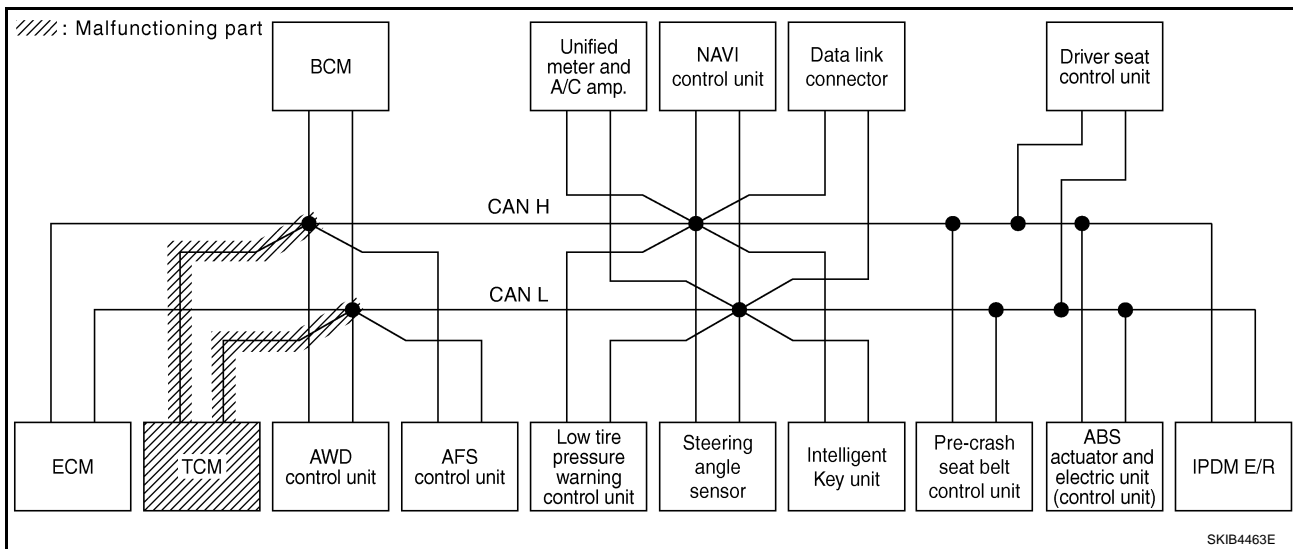
[CAN]

## Case 6

Check TCM circuit. Refer to [LAN-689, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UN <del>KN</del> ✓WN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UN <del>KN</del> ✓WN	—	UN <del>KN</del> ✓WN	—	—	—	—	—	—	UN <del>KN</del> ✓WN	—	UN <del>KN</del> ✓WN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UN <del>KN</del> ✓WN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UN <del>KN</del> ✓WN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UN <del>KN</del> ✓WN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UN <del>KN</del> ✓WN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UN <del>KN</del> ✓WN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UN <del>KN</del> ✓WN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8545E



SKIB4463E

# CAN SYSTEM (TYPE 14)

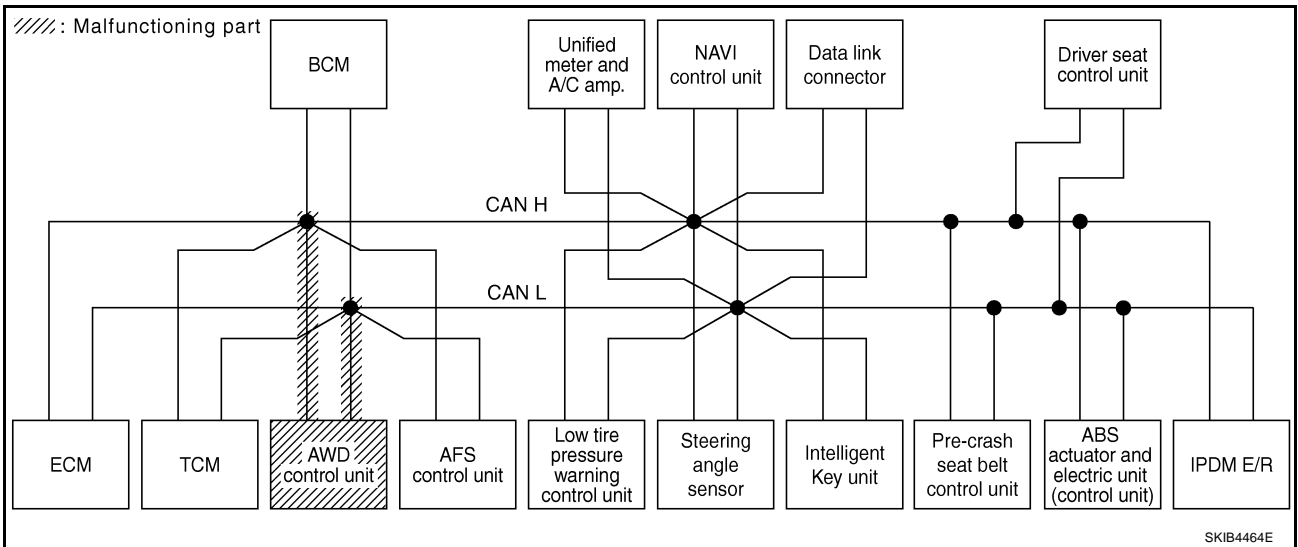
[CAN]

## Case 7

Check AWD control unit circuit. Refer to [LAN-689, "AWD Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)		
ENGINE	—	—	UNKWN	—	UNKWN	✓	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	✓	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	✓	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	✓	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8546E



SKIB4464E

# CAN SYSTEM (TYPE 14)

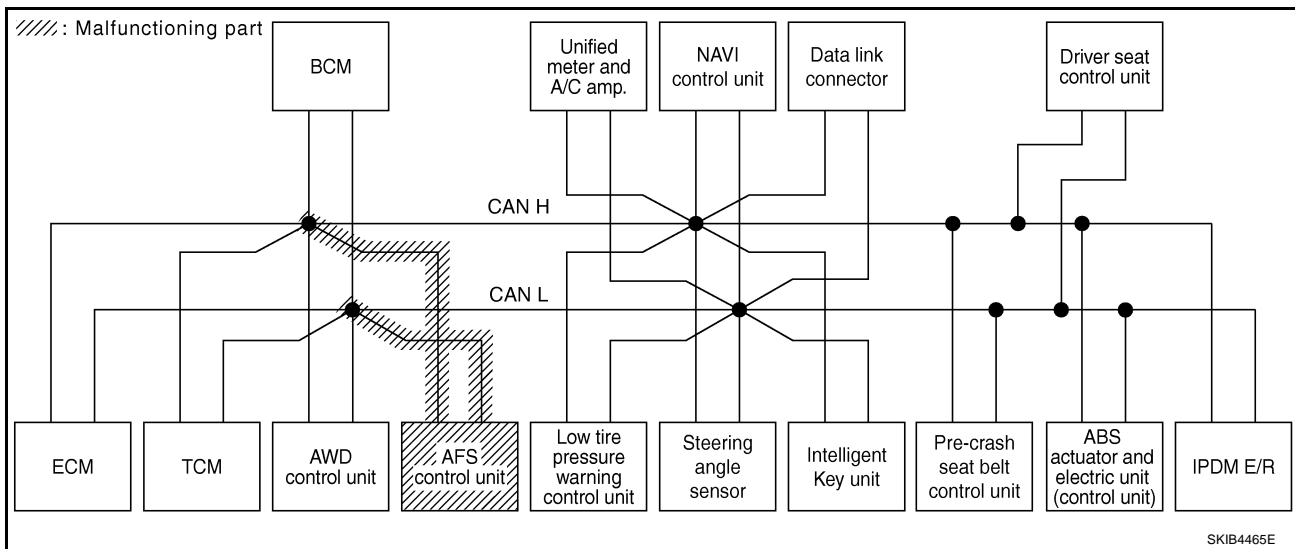
[CAN]

## Case 8

Check AFS control unit circuit. Refer to [LAN-690, "AFS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8547E



SKIB4465E

# CAN SYSTEM (TYPE 14)

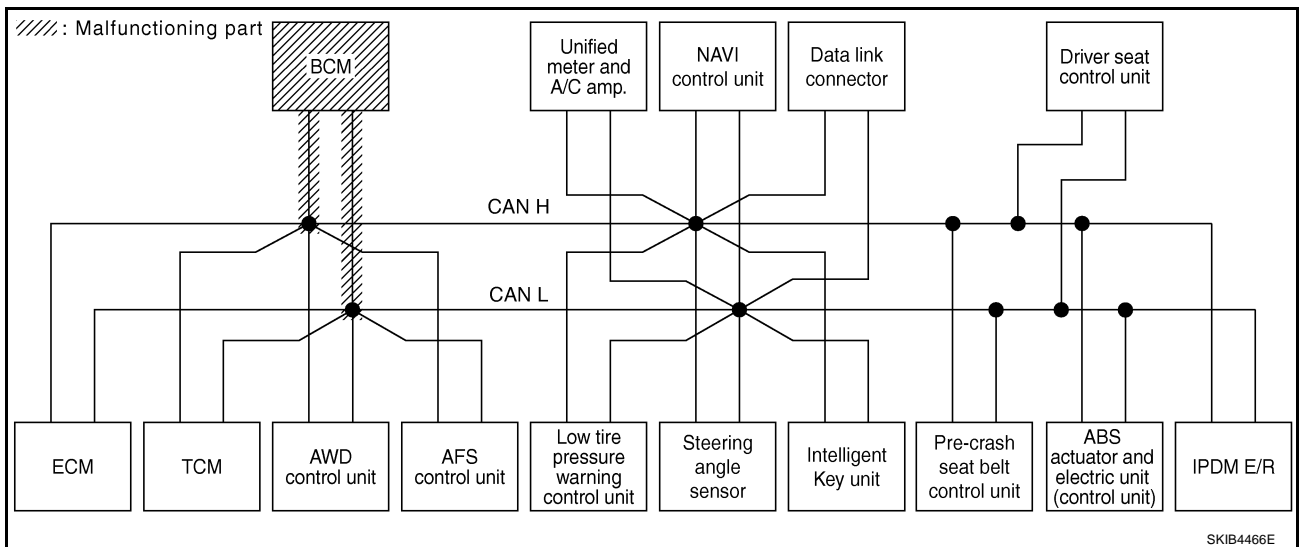
[CAN]

## Case 9

Check BCM circuit. Refer to [LAN-690, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8548E



SKIB4466E

# CAN SYSTEM (TYPE 14)

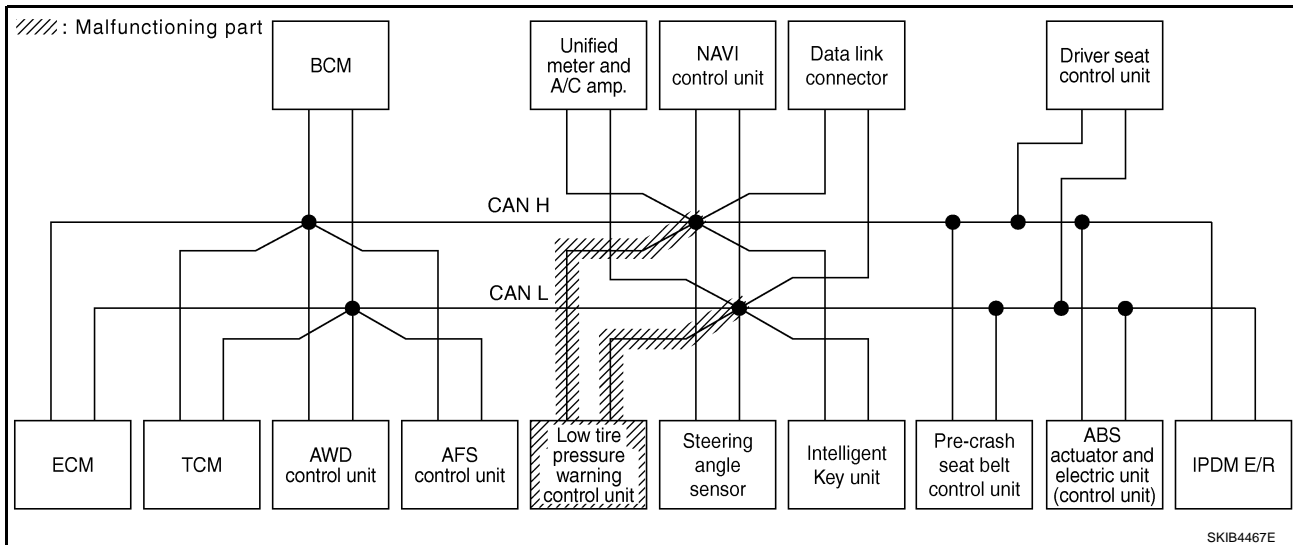
[CAN]

## Case 10

Check low tire pressure warning control unit circuit. Refer to [LAN-691, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8549E



SKIB4467E

# CAN SYSTEM (TYPE 14)

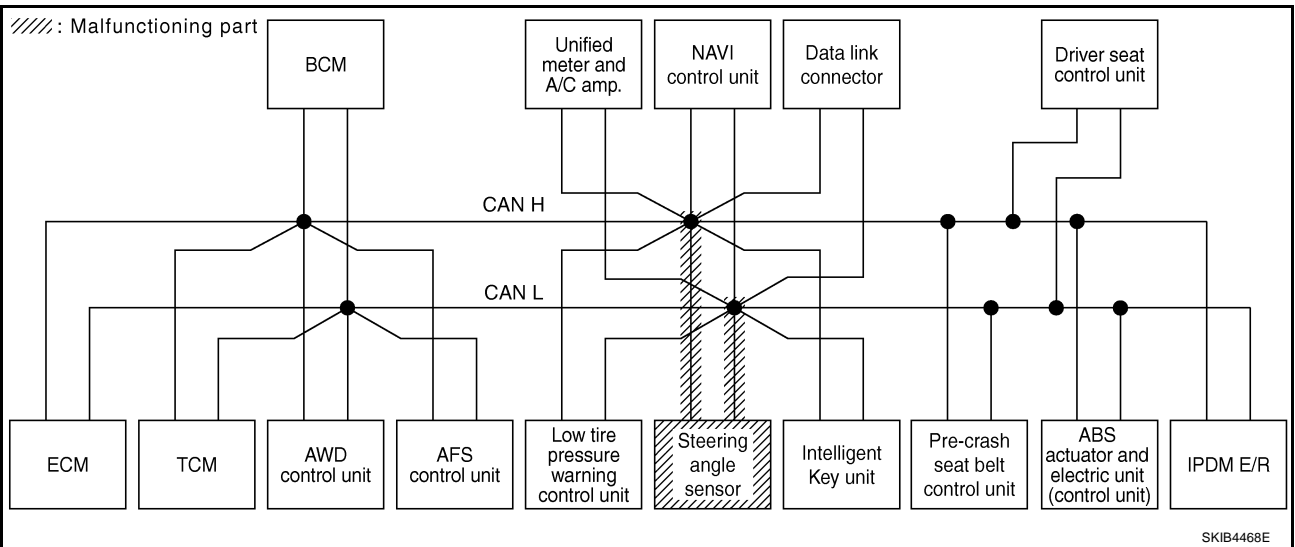
[CAN]

## Case 11

Check steering angle sensor circuit. Refer to [LAN-691, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8550E



SKIB4468E

# CAN SYSTEM (TYPE 14)

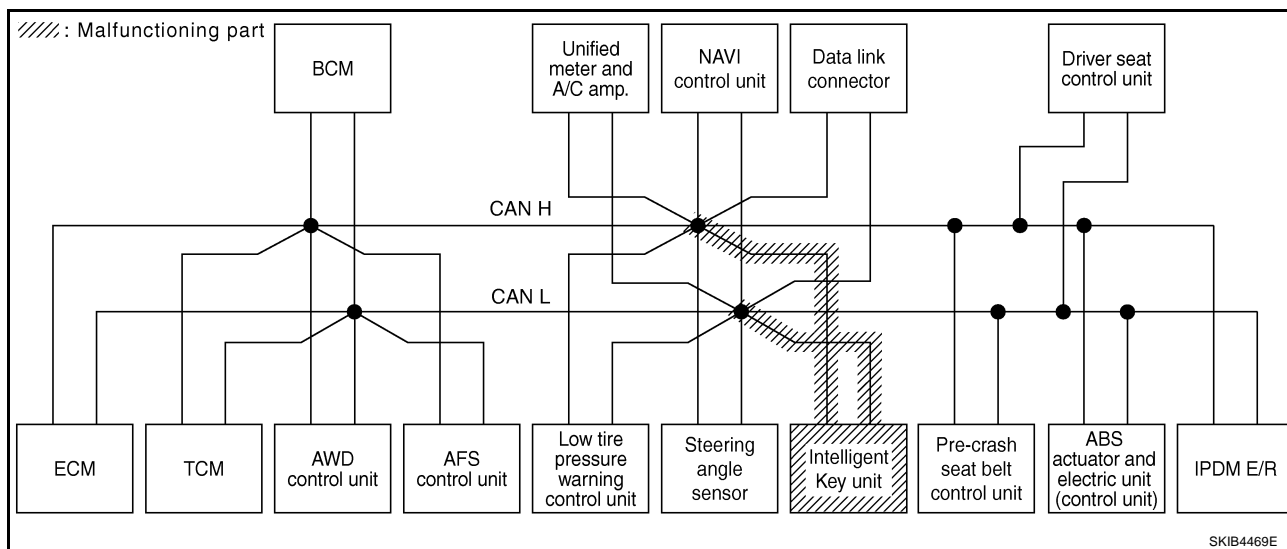
[CAN]

## Case 12

Check Intelligent Key unit circuit. Refer to [LAN-692, "Intelligent Key Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8551E



SKIB4469E



# CAN SYSTEM (TYPE 14)

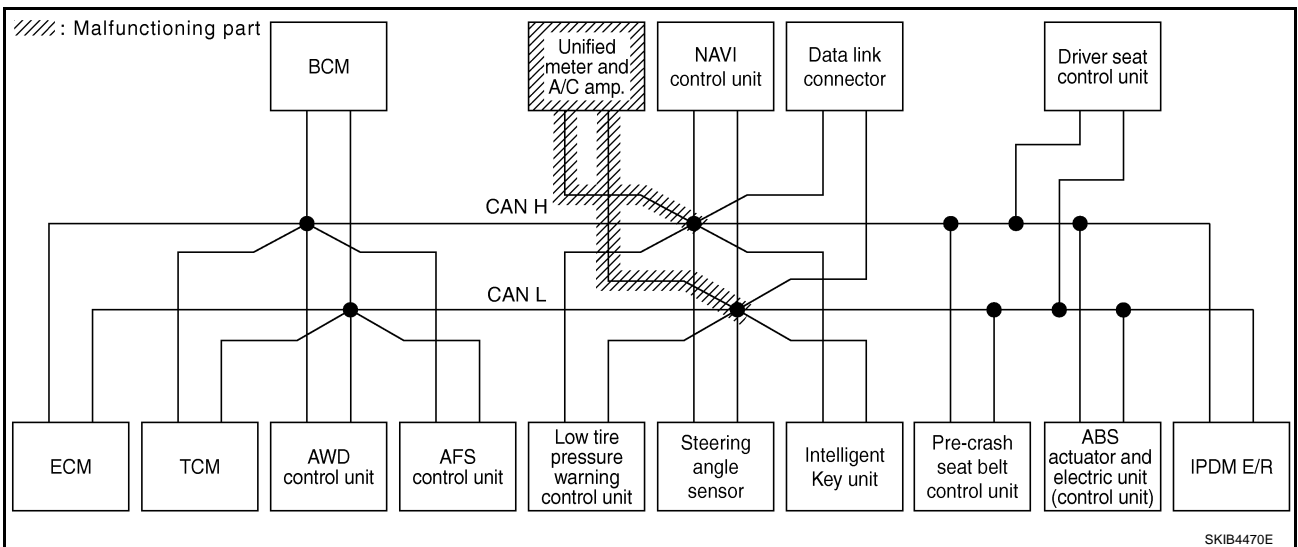
[CAN]

## Case 13

Check unified meter and A/C amp. circuit. Refer to [LAN-692, "Unified Meter and A/C Amp. Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8552E



SKIB4470E

# CAN SYSTEM (TYPE 14)

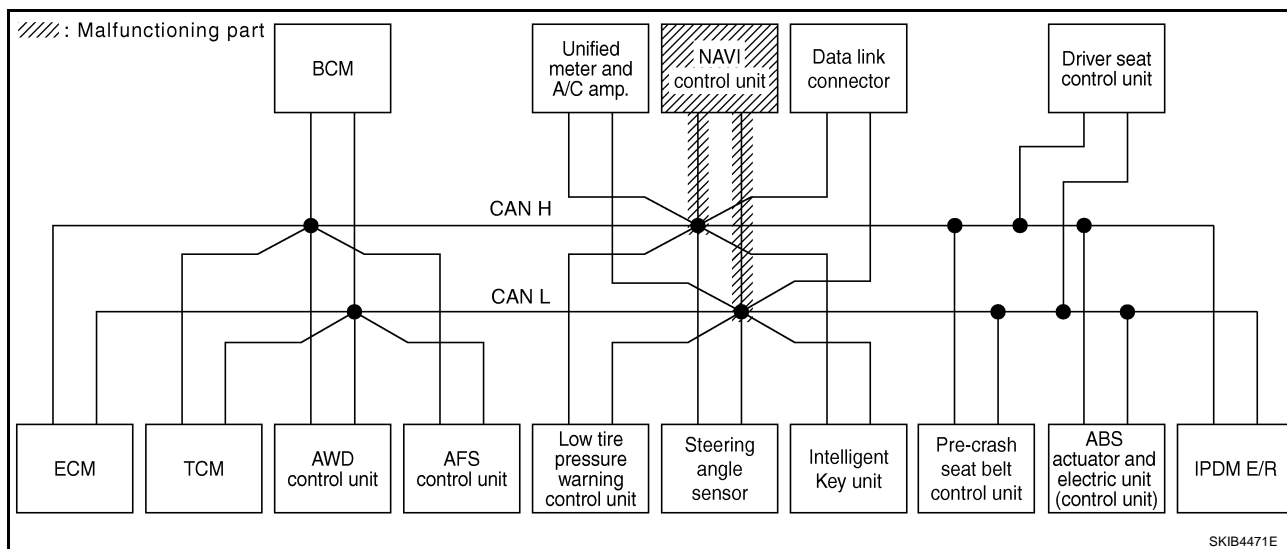
[CAN]

## Case 14

Check NAVI control unit circuit. Refer to [LAN-693, "NAVI Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8553E



SKIB4471E

# CAN SYSTEM (TYPE 14)

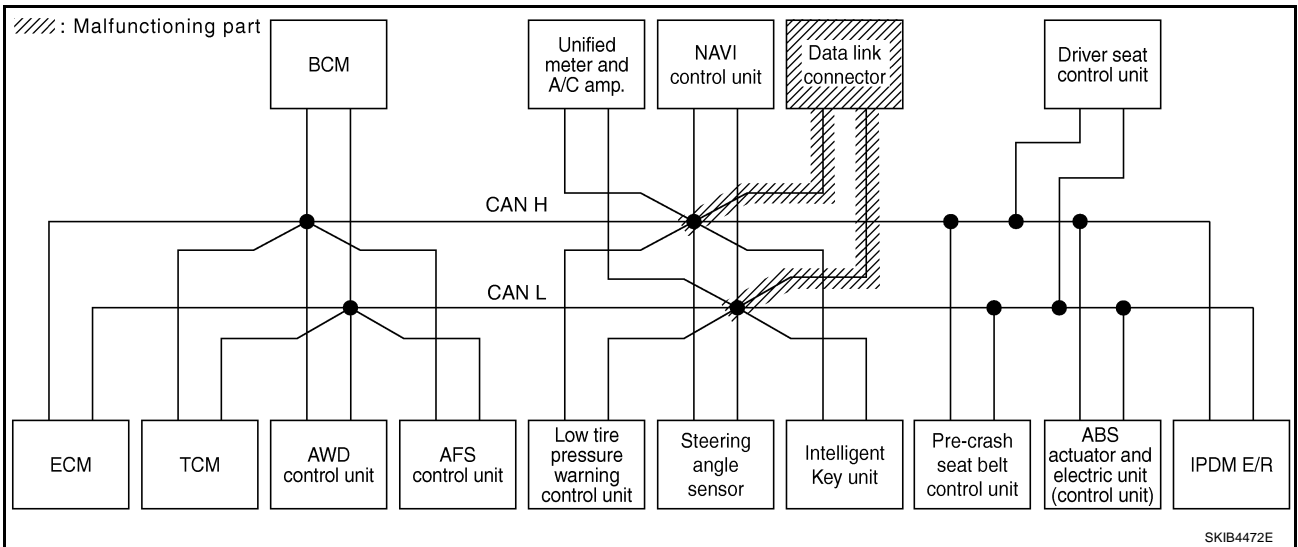
[CAN]

## Case 15

Check data link connector circuit. Refer to [LAN-693, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8554E



SKIB4472E

# CAN SYSTEM (TYPE 14)

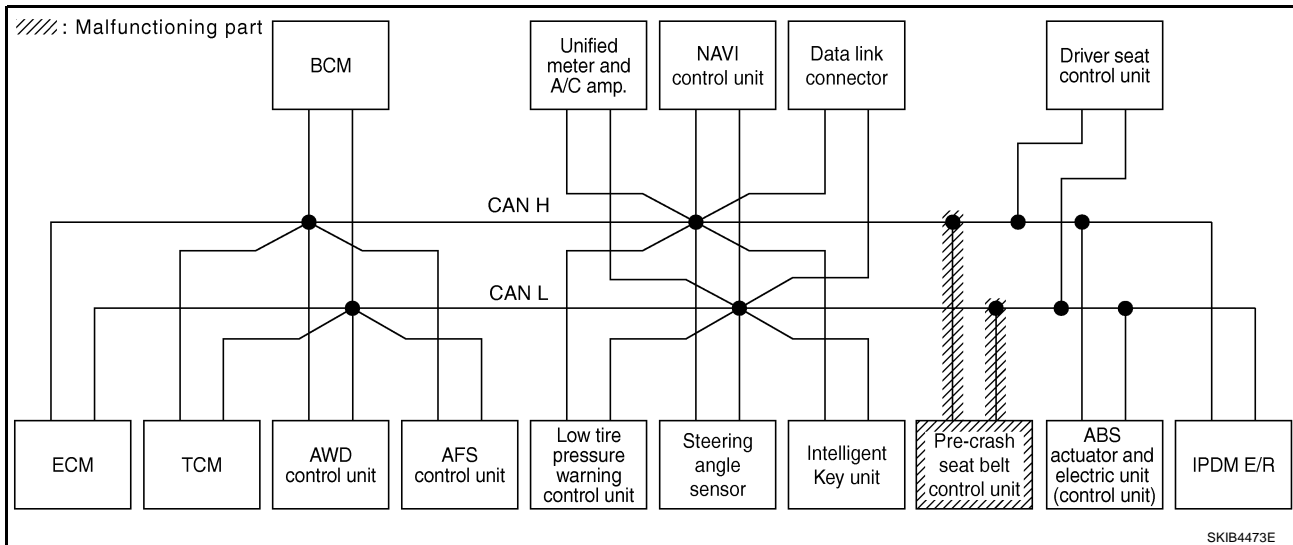
[CAN]

## Case 16

Check pre-crash seat belt control unit circuit. Refer to [LAN-694, "Pre-Crash Seat Belt Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8555E



SKIB4473E

# CAN SYSTEM (TYPE 14)

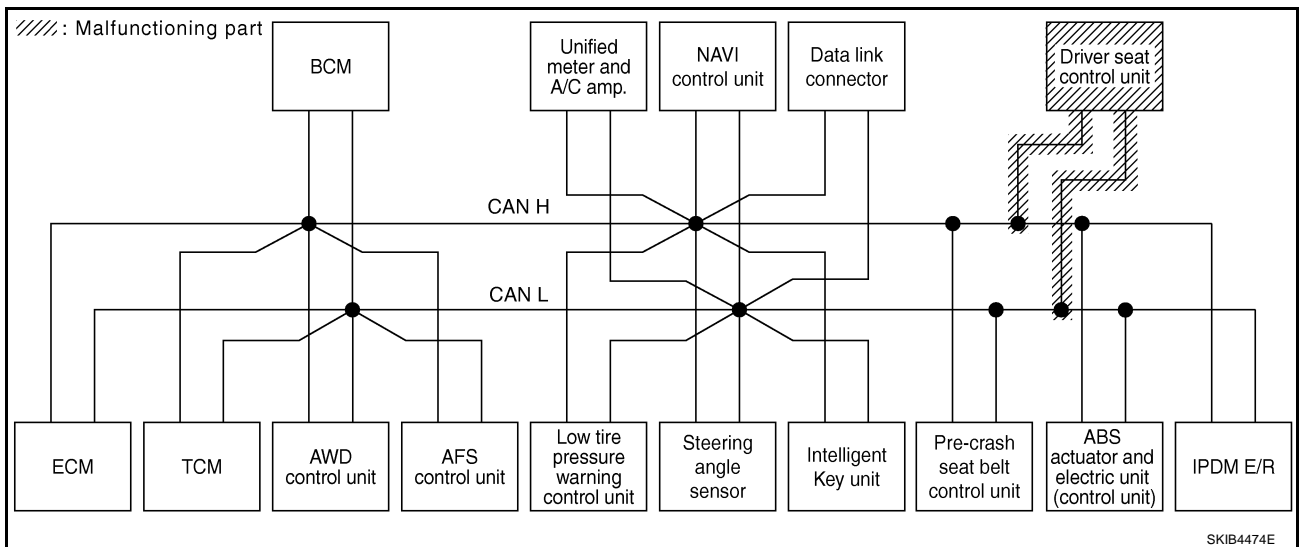
[CAN]

## Case 17

Check driver seat control unit circuit. Refer to [LAN-694, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis														
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8556E



SKIB4474E

# CAN SYSTEM (TYPE 14)

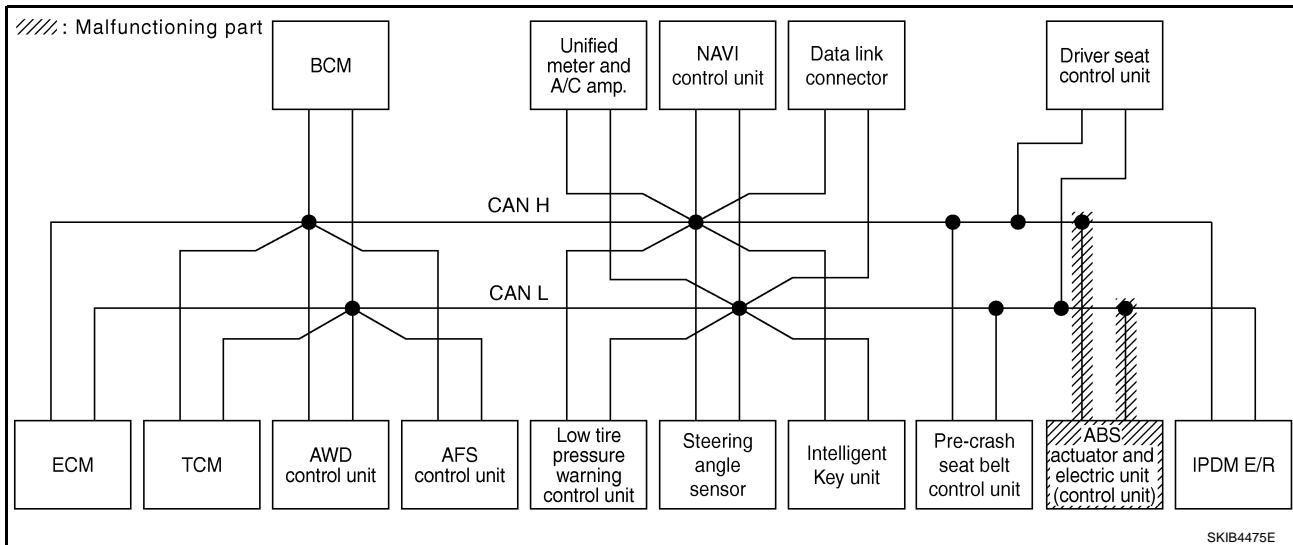
[CAN]

## Case 18

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-695, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB8557E



SKIB4475E

# CAN SYSTEM (TYPE 14)

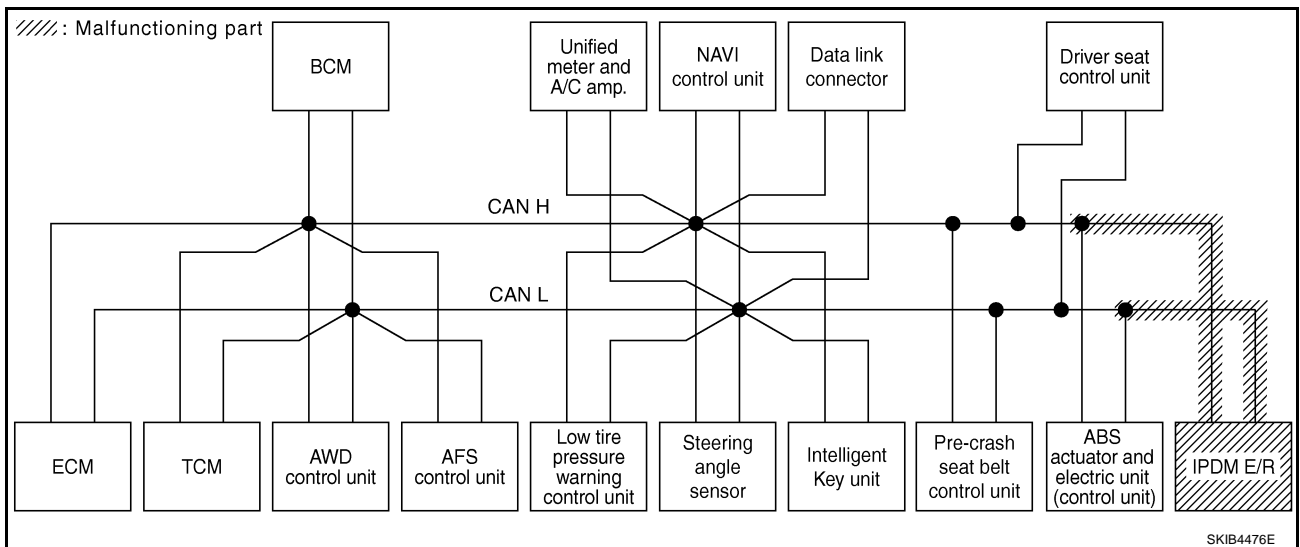
[CAN]

## Case 19

Check IPDM E/R circuit. Refer to [LAN-695, "IPDM E/R Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8558E



SKIB4476E

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# CAN SYSTEM (TYPE 14)

[CAN]

## Case 20

Check CAN communication circuit. Refer to [LAN-696, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV				VDC/TCS /ABS	
ENGINE	—	—	UNKW	—	✓	✓	—	✓	—	—	—	—	✓	—	✓	✓	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	✓	—	✓	—	—	—	—	—	—	✓	—	✓	—	CAN COMM CIRCUIT (U100)	—
ALL MODE AWD/4WD	—	NG	✓	UNKW	—	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	—	UNKW	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	✓	✓	✓	✓	—	—	—	✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8559E

## Case 21

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-704, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV				VDC/TCS /ABS	
ENGINE	—	—	UNKW	—	✓	✓	—	UNKW	—	—	—	—	UNKW	—	✓	UNKW	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	✓	—	—	—	—	✓	—	UNKW	—	—	UNKW	—	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	✓	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	✓	—	—	UNKW	—	—	—	—	UNKW	—	✓	UNKW	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKW	UNKW	✓	✓	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	✓	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	✓	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
AUTO DRIVE POS.	No indication	NG	—	—	✓	—	—	UNKW	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8560E



## Case 22

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-704, "IPDM E/R Ignition Relay Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8561E

## Inspection Between TCM and Data Link Connector Circuit

NKS0046S

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

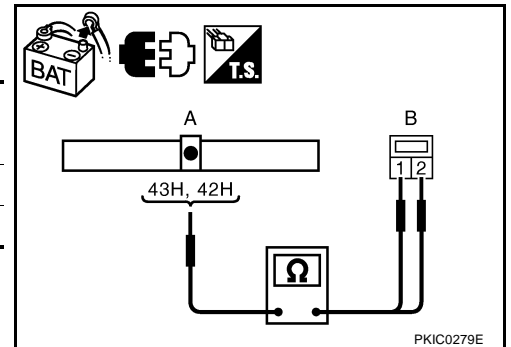
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



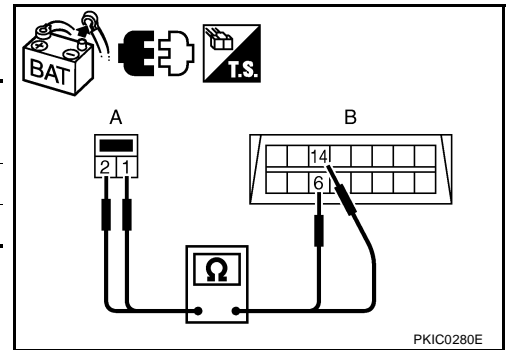
## 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



## Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit

NKS0046T

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

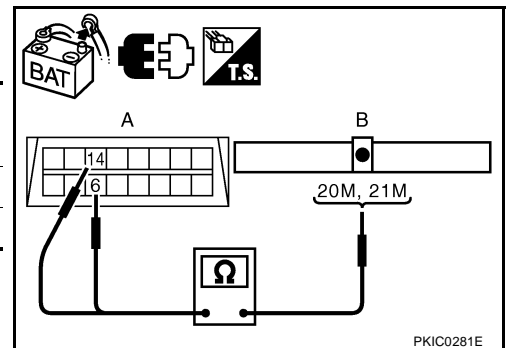
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

**OK or NG**

- OK >> GO TO 3.
- NG >> Repair harness.



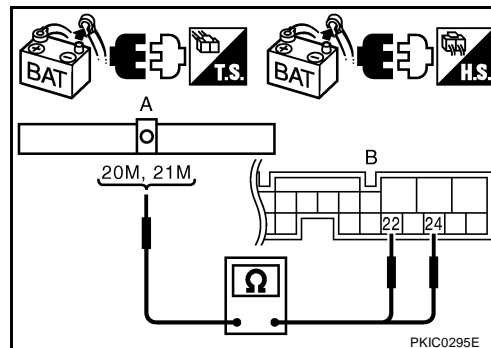
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check continuity between harness connector (A) and pre-crash seat belt control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B142	24	Yes
	21M		22	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



## Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

NKS0046U

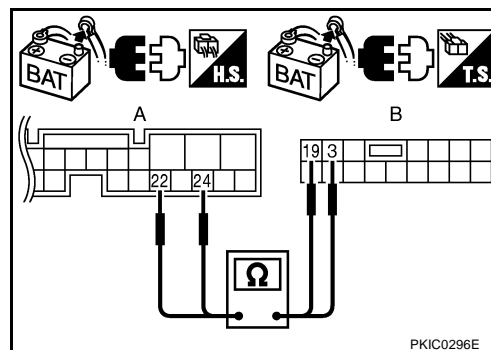
### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - Pre-crash seat belt control unit connector
  - harness connector B15
4. Check continuity between pre-crash seat belt control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B142	24	B15	3	Yes
	22		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS0046V

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

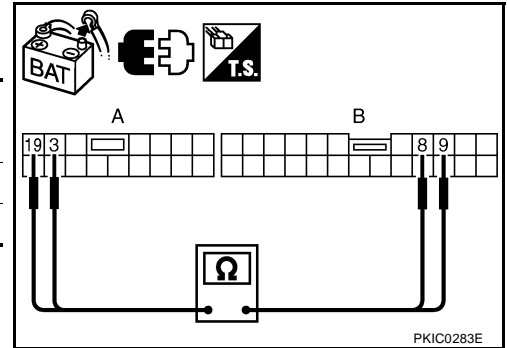
1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

OK or NG

OK >> GO TO 3.

NG >> Replace harness.



## 3. CHECK HARNESS FOR OPEN CIRCUIT

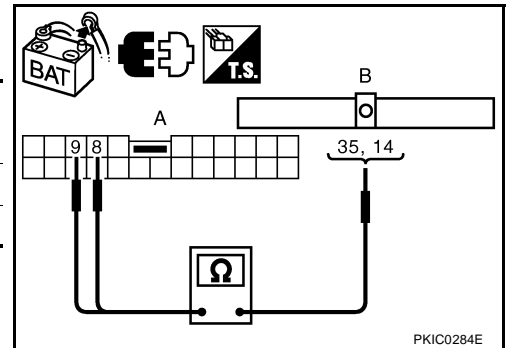
1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).

NG >> Repair harness.



## ECM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

### 2. CHECK HARNESS FOR OPEN CIRCUIT

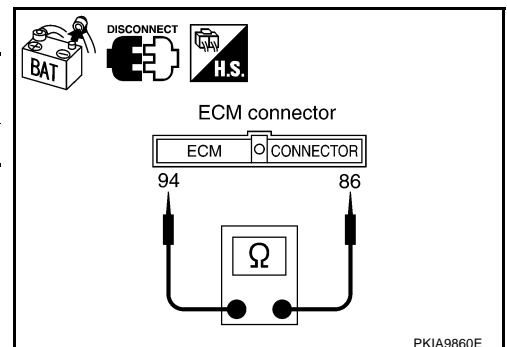
1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM and A/T assembly.



**TCM Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

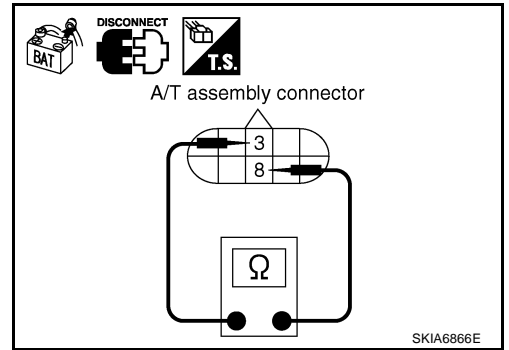
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

OK or NG

- OK >> Replace control valve with TCM.
- NG >> Repair harness between A/T assembly and AWD control unit.



**AWD Control Unit Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AWD control unit connector
  - Harness connector F102
  - Harness connector M72

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

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LAN

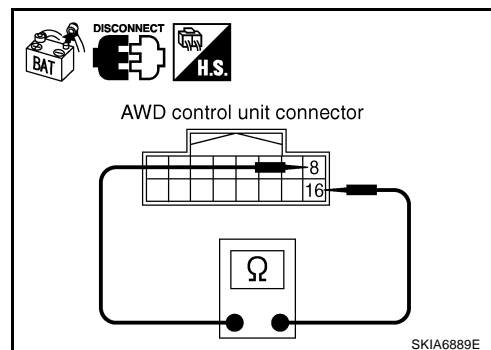
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector terminals.

AWD control unit connector	Terminal		Resistance (Approx.)
F109	8	16	54 – 66 Ω

### OK or NG

- OK >> Replace AWD control unit.
- NG >> Repair harness between AWD control unit and AFS control unit.



NKS0046Z

## AFS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

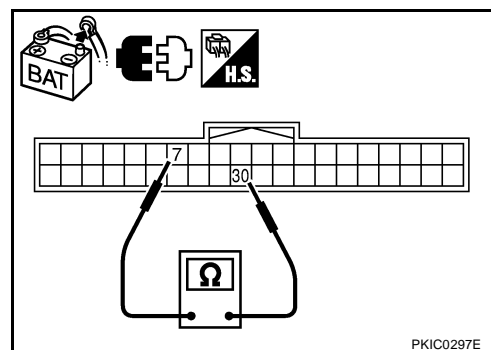
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
F110	30	7	54 – 66 Ω

### OK or NG

- OK >> Replace AFS control unit.
- NG >> Repair harness between AFS control unit and BCM.



NKS00470

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

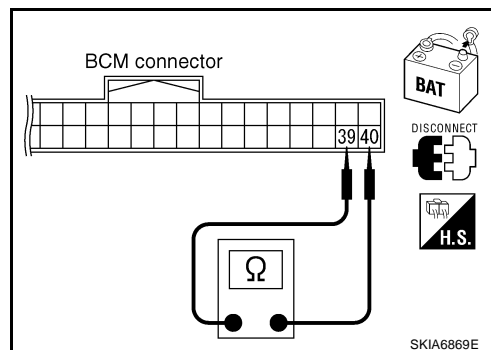
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M1	39	40	54 – 66 Ω

### OK or NG

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

NKS00471

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

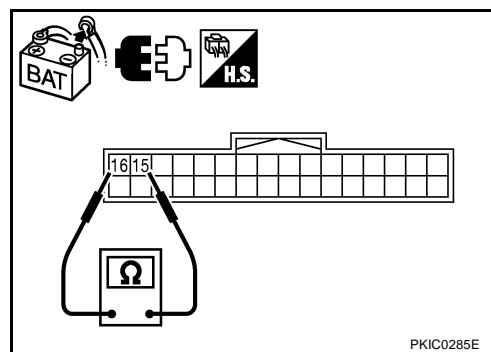
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
M19	15	16	54 – 66 Ω

### OK or NG

- OK >> Replace low tire pressure warning control unit.
- NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS00472

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

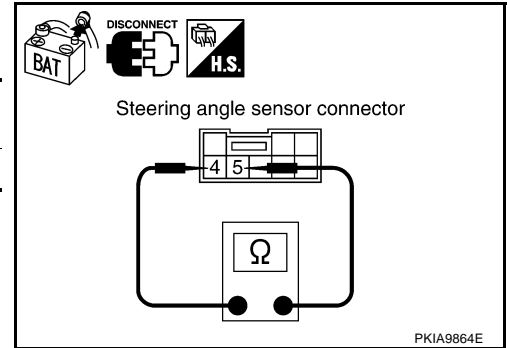
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
	4	5	
M47	4	5	54 – 66 Ω

### OK or NG

- OK >> Replace steering angle sensor.  
 NG >> Repair harness between steering angle sensor and data link connector.



NKS00473

## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

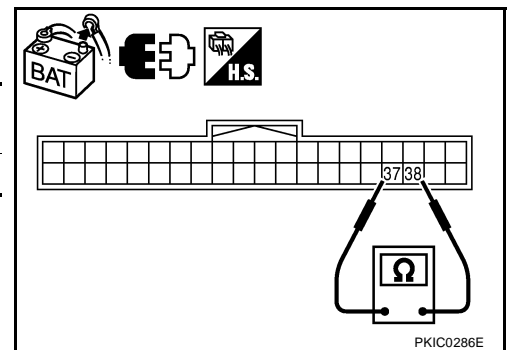
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
	38	37	
M32	38	37	54 – 66 Ω

### OK or NG

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS00474

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.



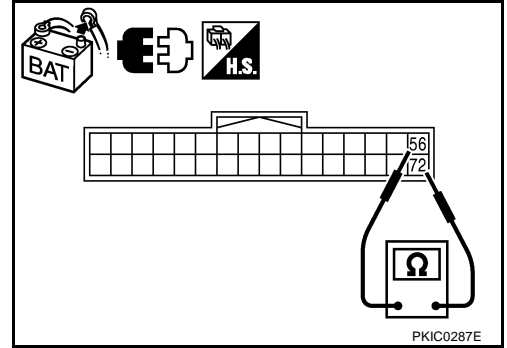
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
M65	56	72	54 – 66 Ω

**OK or NG**

- OK >> Replace unified meter and A/C amp.
- NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS00475

**NAVI Control Unit Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - NAVI control unit connector
  - Harness connector M216
  - Harness connector M53

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

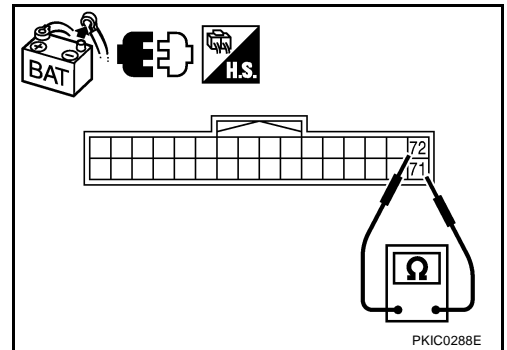
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect NAVI control unit connector.
2. Check resistance between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

**OK or NG**

- OK >> Replace NAVI control unit.
- NG >> Repair harness between NAVI control unit and data link connector.



NKS00476

**Data Link Connector Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

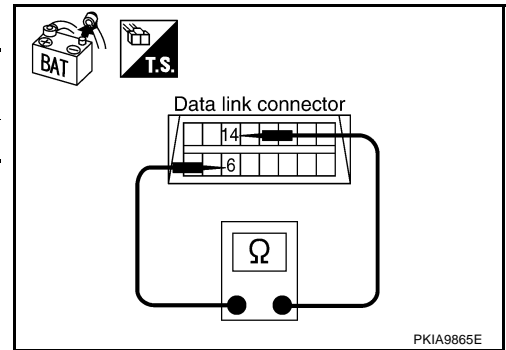
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

**OK or NG**

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



## Pre-Crash Seat Belt Control Unit Circuit Inspection

NKS00477

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of pre-crash seat belt control unit for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

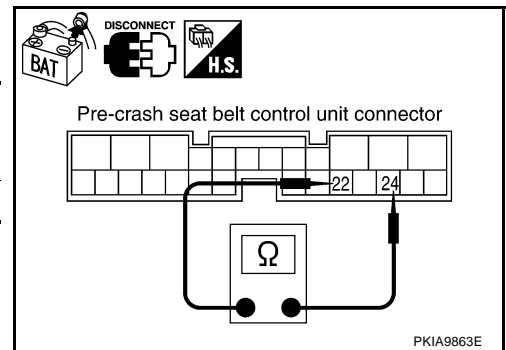
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check resistance between pre-crash seat belt control unit harness connector terminals.

Pre-crash seat belt control unit connector	Terminal		Resistance (Approx.)
B142	24	22	54 – 66 Ω

**OK or NG**

- OK >> Replace pre-crash seat belt control unit.
- NG >> Replace harness.



## Driver Seat Control Unit Circuit Inspection

NKS00478

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

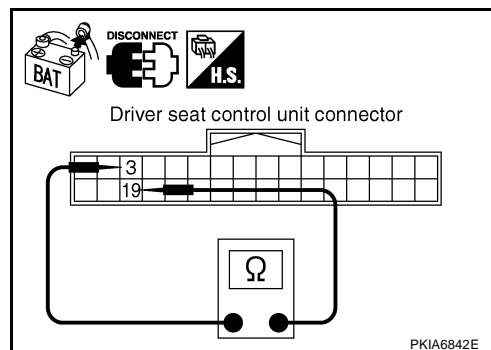
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

### OK or NG

- OK >> Replace driver seat control unit.  
 NG >> Replace harness.



## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

NKS00479

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

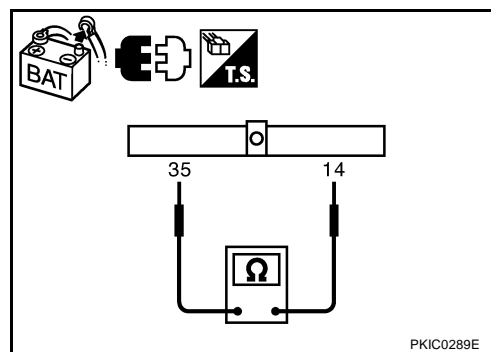
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

### OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).  
 NG >> Repair harness between ABS actuator and electric unit (control unit) and IPDM E/R.



## IPDM E/R Circuit Inspection

NKS0047A

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

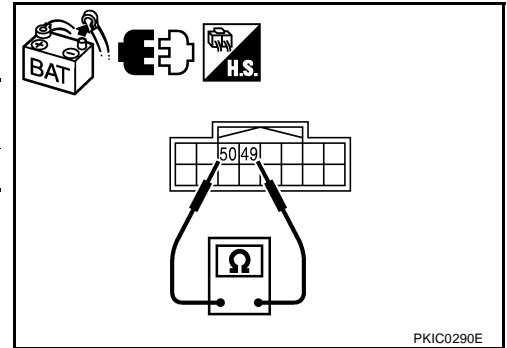
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

### OK or NG

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and harness connector E105.



PKIC0290E

## CAN Communication Circuit Inspection

NKS0047B

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AWD control unit
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - IPDM E/R
    - Between ECM and A/T assembly
    - Between ECM and AWD control unit
    - Between ECM and AFS control unit
    - Between ECM and NAVI control unit
    - Between ECM and driver seat control unit
    - Between ECM and IPDM E/R

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

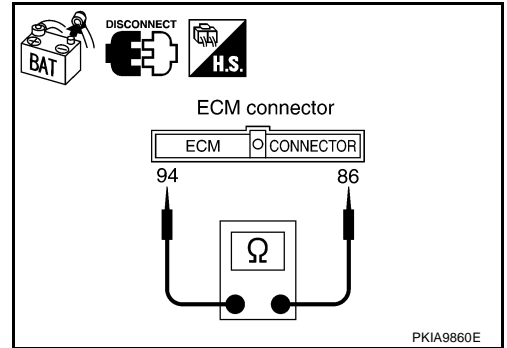
## 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



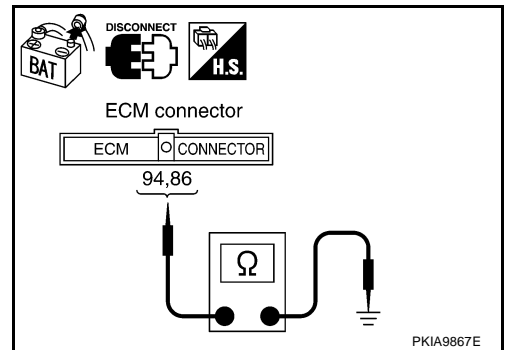
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		No
	86	No	

**OK or NG**

- OK >> GO TO 4.  
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and harness connector M61



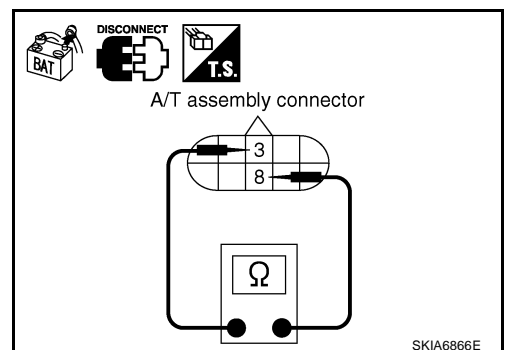
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.  
 NG >> Repair harness between A/T assembly and harness connector F102.



### 5. CHECK HARNESS FOR SHORT CIRCUIT

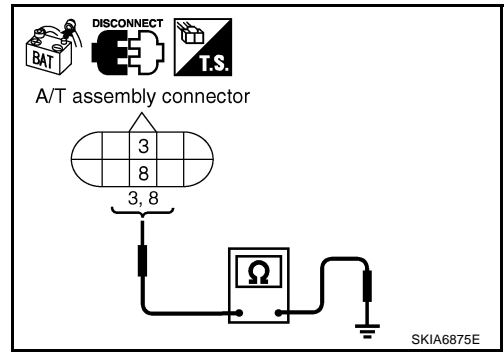
Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

OK or NG

OK >> GO TO 6.

NG >> Repair harness between A/T assembly and harness connector F102.



### 6. CHECK HARNESS FOR SHORT CIRCUIT

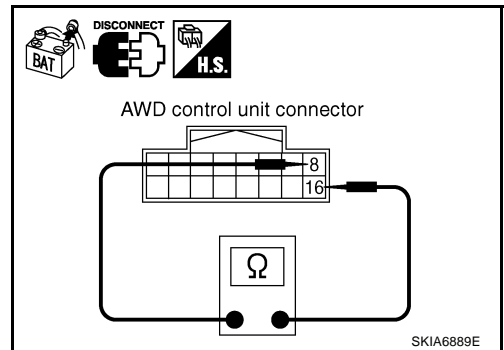
1. Disconnect AWD control unit connector.
2. Check continuity between AWD control unit harness connector terminals.

AWD control unit connector	Terminal	Continuity
F109	8, 16	

OK or NG

OK >> GO TO 7.

NG >> Repair harness between AWD control unit and harness connector F102.



### 7. CHECK HARNESS FOR SHORT CIRCUIT

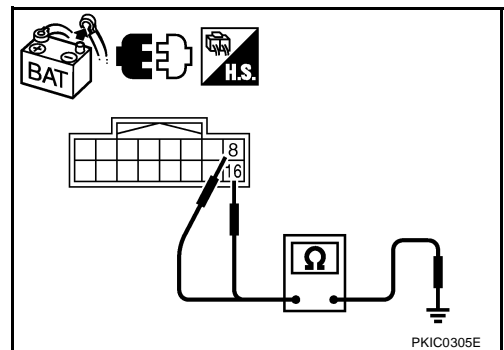
Check continuity between AWD control unit harness connector terminals and ground.

AWD control unit connector	Terminal	Ground	Continuity
F109	8		
	16	No	

OK or NG

OK >> GO TO 8.

NG >> Replace harness between AWD control unit and harness connector F102.



### 8. CHECK HARNESS FOR SHORT CIRCUIT

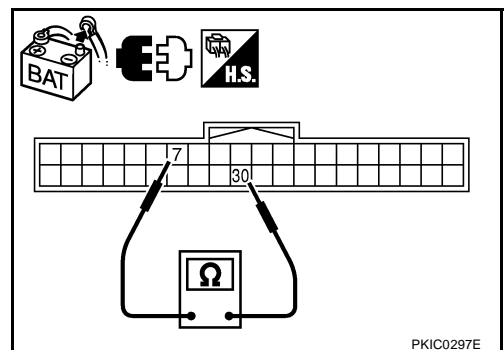
1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal	Continuity
F110	30, 7	

OK or NG

OK >> GO TO 9.

NG >> Repair harness between AFS control unit and harness connector F102.



## 9. CHECK HARNESS FOR SHORT CIRCUIT

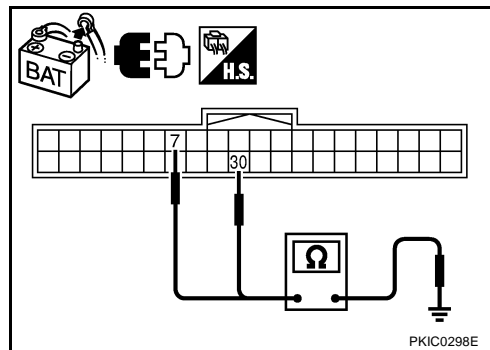
Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		No
	7	No	

OK or NG

OK >> GO TO 10.

NG >> Replace harness between AFS control unit and harness connector F102.



## 10. CHECK HARNESS FOR SHORT CIRCUIT

- Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
- Check continuity between data link connector terminals.

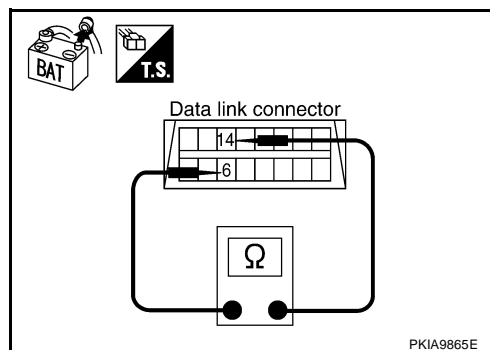
Data link connector	Terminal		Continuity
M60	6	14	No

OK or NG

OK >> GO TO 11.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



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## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

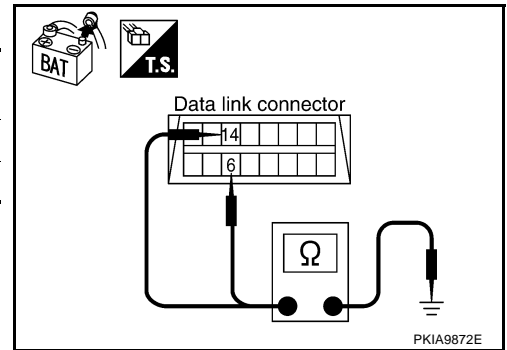
Data link connector	Terminal	Ground	Continuity
M60	6		
	14	No	

**OK or NG**

OK >> GO TO 12.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



## 12. CHECK HARNESS FOR SHORT CIRCUIT

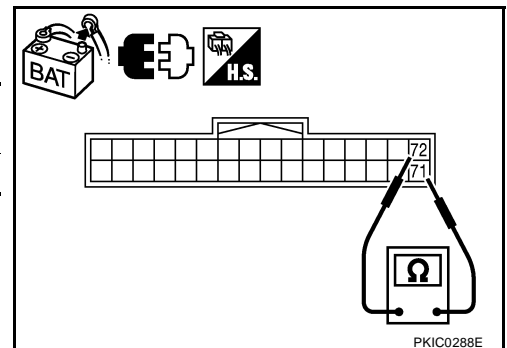
1. Disconnect NAVI control unit connector.
2. Check continuity between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal	Terminal	Continuity
M210	71	72	No

**OK or NG**

OK >> GO TO 13.

NG >> Repair harness between NAVI control unit and harness connector M216.



## 13. CHECK HARNESS FOR SHORT CIRCUIT

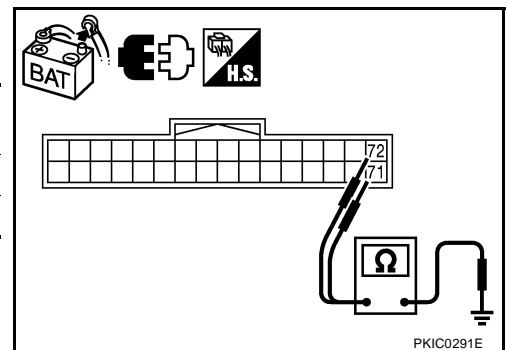
Check continuity between NAVI control unit harness connector terminals and ground.

NAVI control unit connector	Terminal	Ground	Continuity
M210	71		
	72	No	

**OK or NG**

OK >> GO TO 14.

NG >> Repair harness between NAVI control unit and harness connector M216.





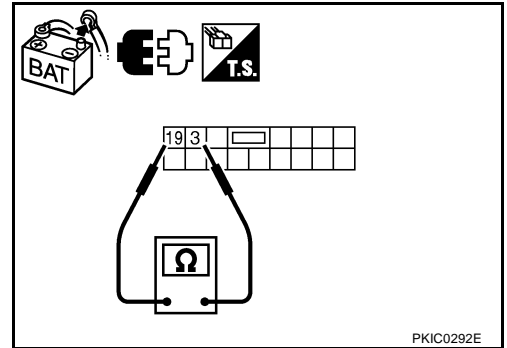
## 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Pre-crash seat belt control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 15.
- NG >> Replace harness.



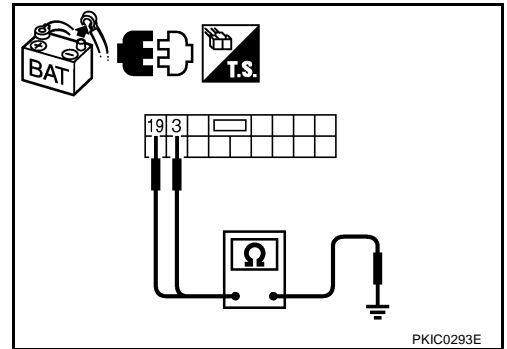
## 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3	Ground	No
	19		No

**OK or NG**

- OK >> GO TO 16.
- NG >> Replace harness.



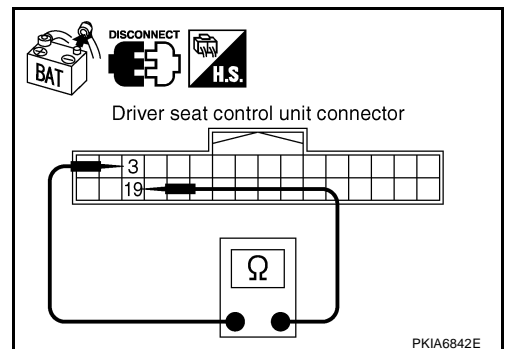
## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Continuity
B204	3	19	No

**OK or NG**

- OK >> GO TO 17.
- NG >> Repair harness between driver seat control unit and harness connector B202.



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## 17. CHECK HARNESS FOR SHORT CIRCUIT

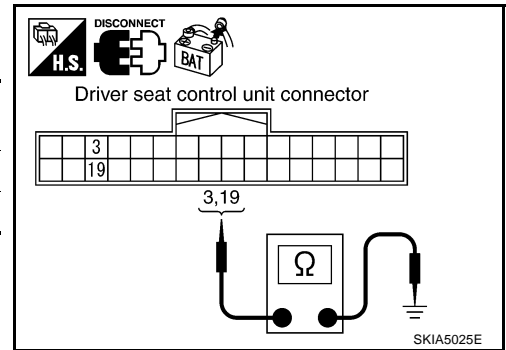
Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3	Ground	No
	19		No

**OK or NG**

OK >> GO TO 18.

NG >> Repair harness between driver seat control unit and harness connector B202.



## 18. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector terminals.

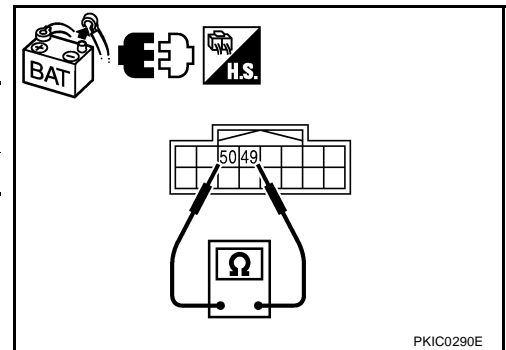
IPDM E/R connector	Terminal	Continuity
E9	49 50	No

**OK or NG**

OK >> GO TO 19.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



## 19. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

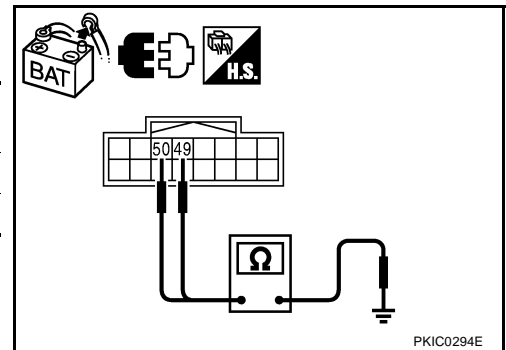
IPDM E/R connector	Terminal	Ground	Continuity
E9	49	Ground	No
	50		No

**OK or NG**

OK >> GO TO 20.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)



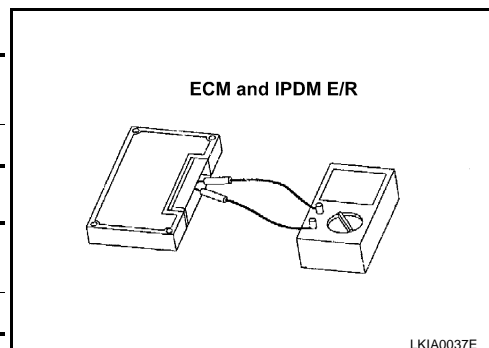
## 20. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω



### OK or NG

- OK >> GO TO 21.  
 NG >> Replace ECM and/or IPDM E/R.

## 21. CHECK SYMPTOM

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

### OK or NG

- OK >> GO TO 22.  
 NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 22. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AWD control unit
  - AFS control unit
  - BCM
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ECM
  - IPDM E/R

### Check results

- Reproduce>>Install removed unit, and then check the other unit.  
 Not reproduced>>Replace removed unit.

---

## IPDM E/R Ignition Relay Circuit Inspection

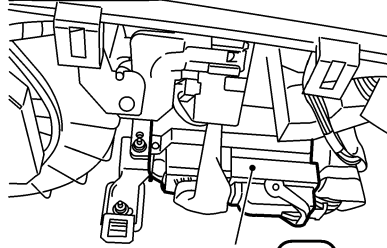
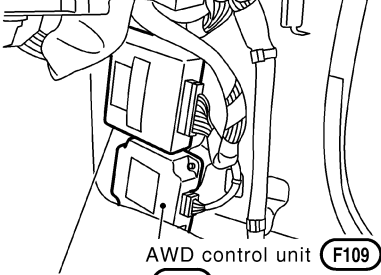
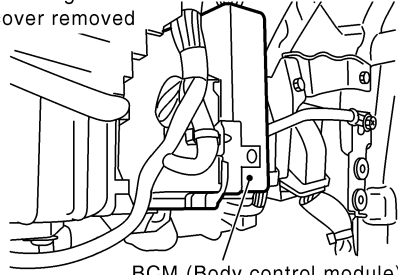
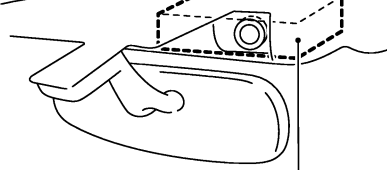
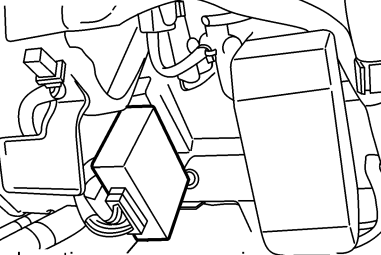
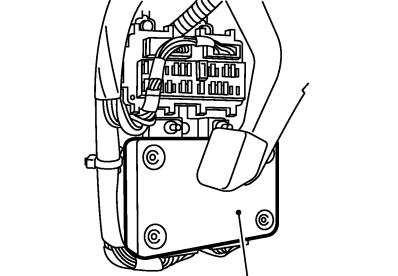
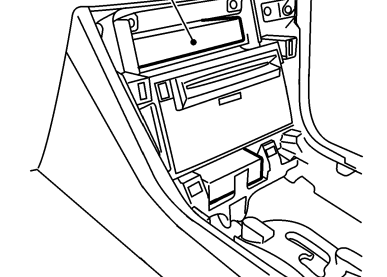
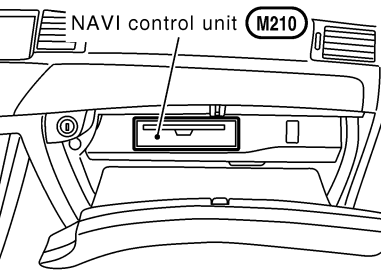
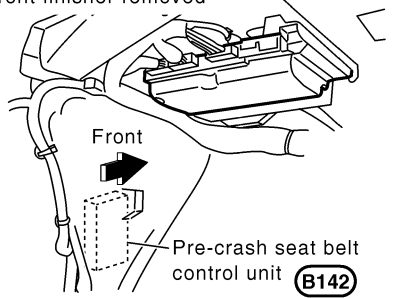
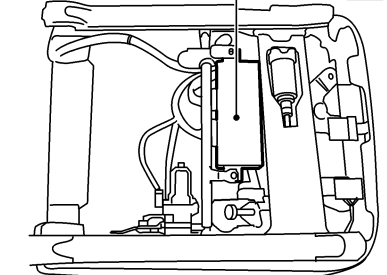
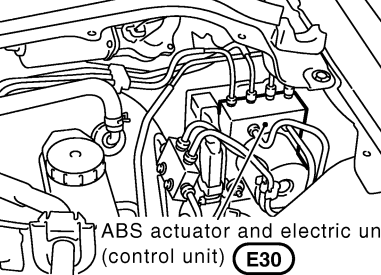
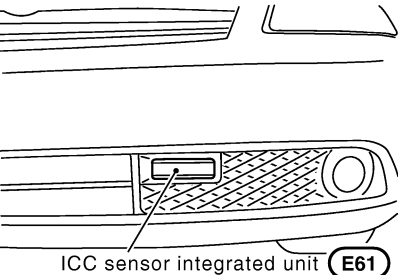
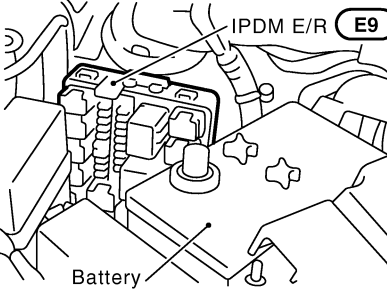
NKS0047C

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START""](#) .

## CAN SYSTEM (TYPE 15)

### Component Parts and Harness Connector Location

<p>Passenger side view with instrument lower cover removed</p>  <p>ECM (M71)</p>	<p>Behind dash side lower RH finisher</p>  <p>AWD control unit (F109) AFS control unit (F110)</p>	<p>Passenger side view with instrument lower cover removed</p>  <p>BCM (Body control module) (M1)</p>
 <p>LDW camera unit (M182)</p>	<p>Driver side view with instrument lower panel removed</p>  <p>Low tire pressure warning control unit (M19)</p>	<p>Behind dash side lower LH finisher</p>  <p>Intelligent Key unit (M32)</p>
<p>View with cluster lid C removed Unified meter and A/C amp. (M65)</p>  <p>Unified meter and A/C amp. (M65)</p>	<p>Inside of glove box</p>  <p>NAVI control unit (M210)</p>	<p>View with trunk side LH finisher and front finisher removed</p>  <p>Pre-crash seat belt control unit (E142)</p>
<p>Under driver's seat Driver seat control unit (B204)</p>  <p>Driver seat control unit (B204)</p>	<p>Rear left of engine room</p>  <p>ABS actuator and electric unit (control unit) (E30)</p>	<p>Bumper LH</p>  <p>ICC sensor integrated unit (E61)</p>
<p>View with cowl top cover removed</p>  <p>IPDM E/R (E9) Battery</p>		

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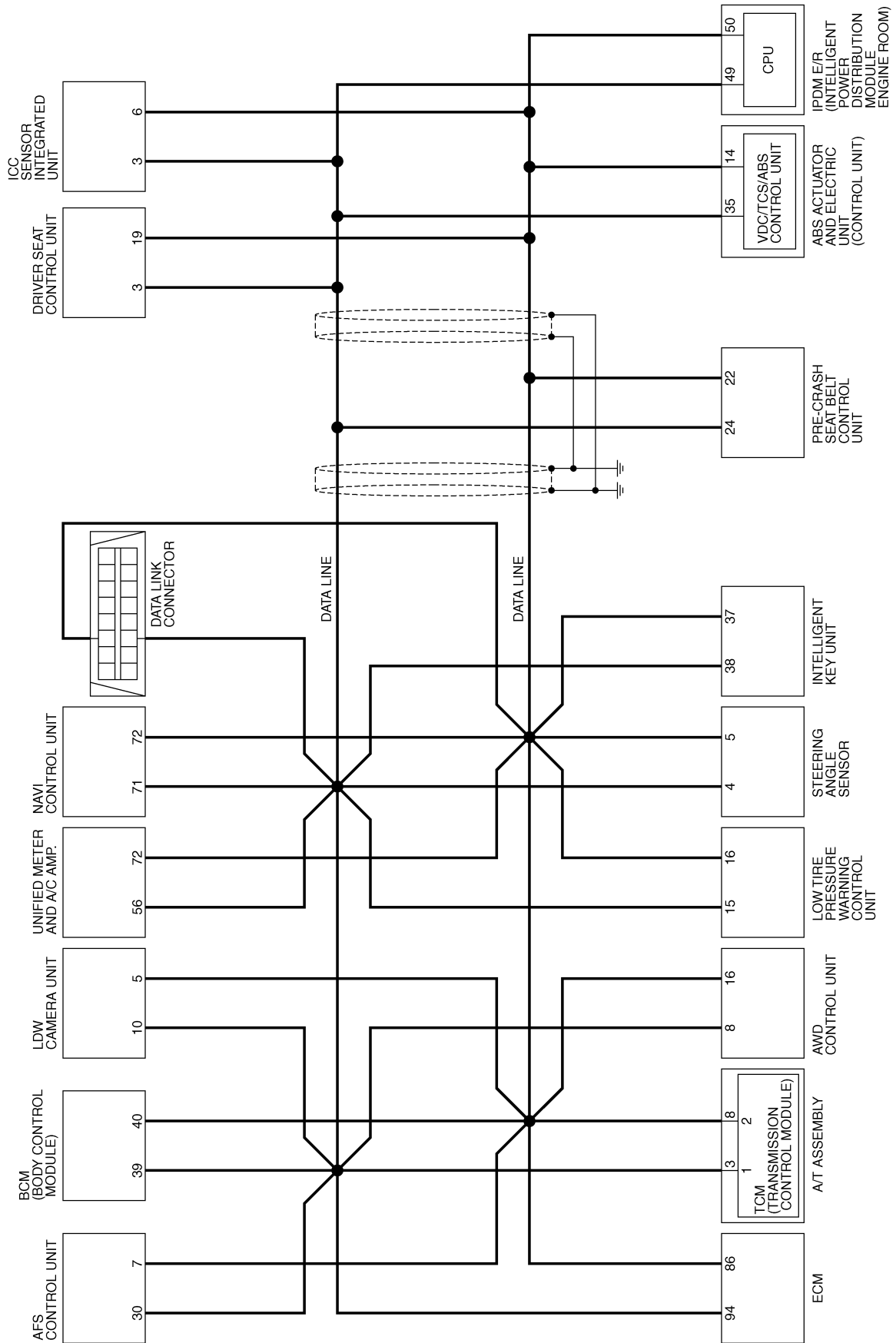
LAN

# CAN SYSTEM (TYPE 15)

[CAN]

## Schematic

NKS0047E



TKWT3313E

# CAN SYSTEM (TYPE 15)

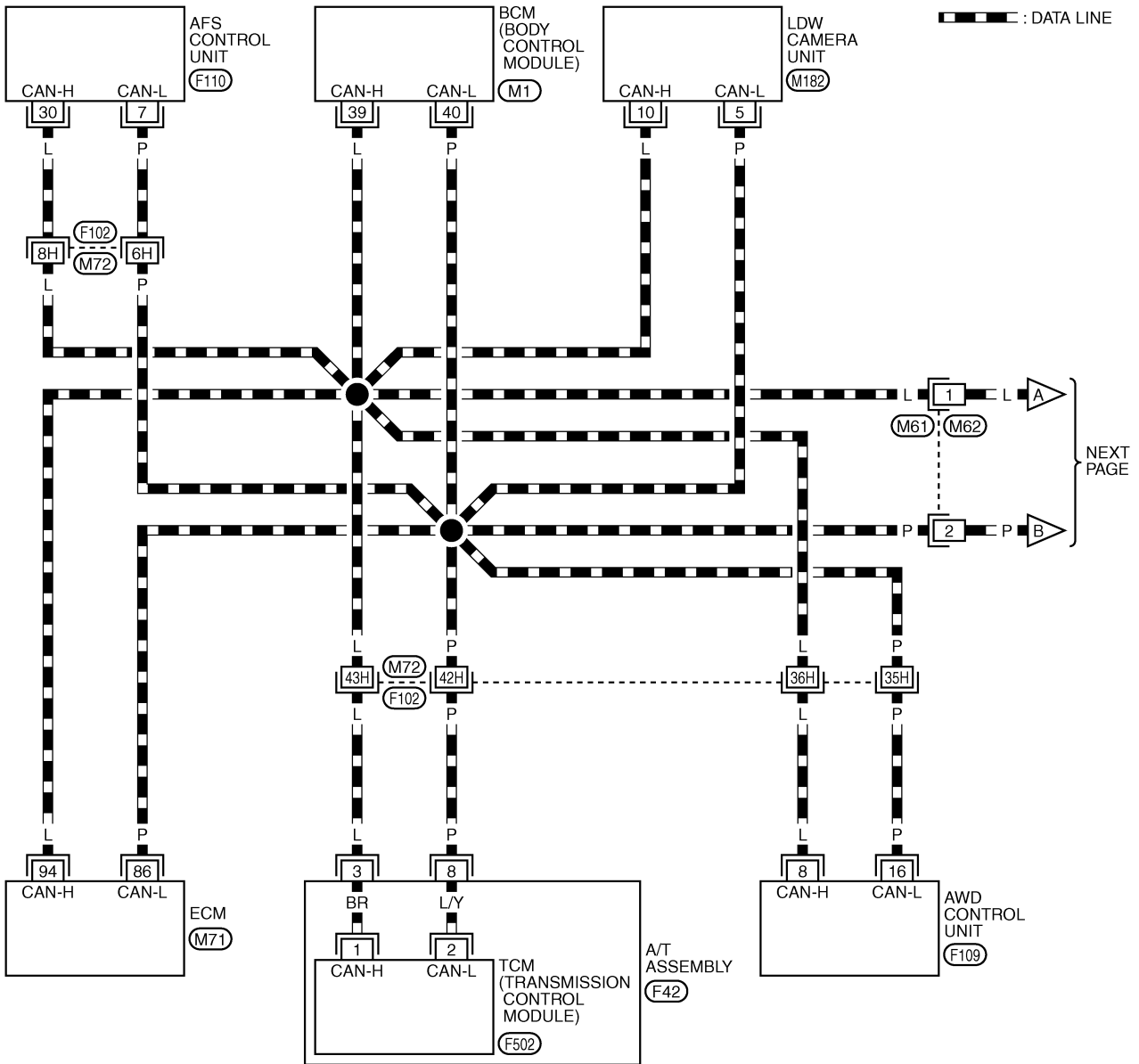
[CAN]

## Wiring Diagram — CAN —

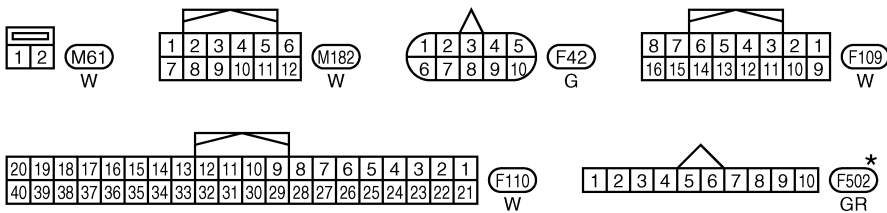
NKS0047F

### LAN-CAN-53

— : DATA LINE



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)  
(M1), (M71) -ELECTRICAL UNITS

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

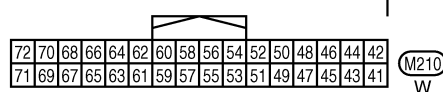
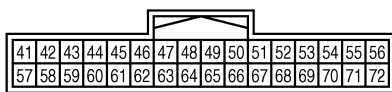
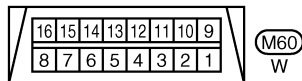
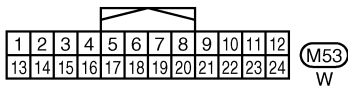
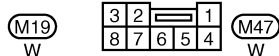
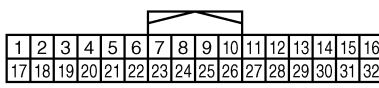
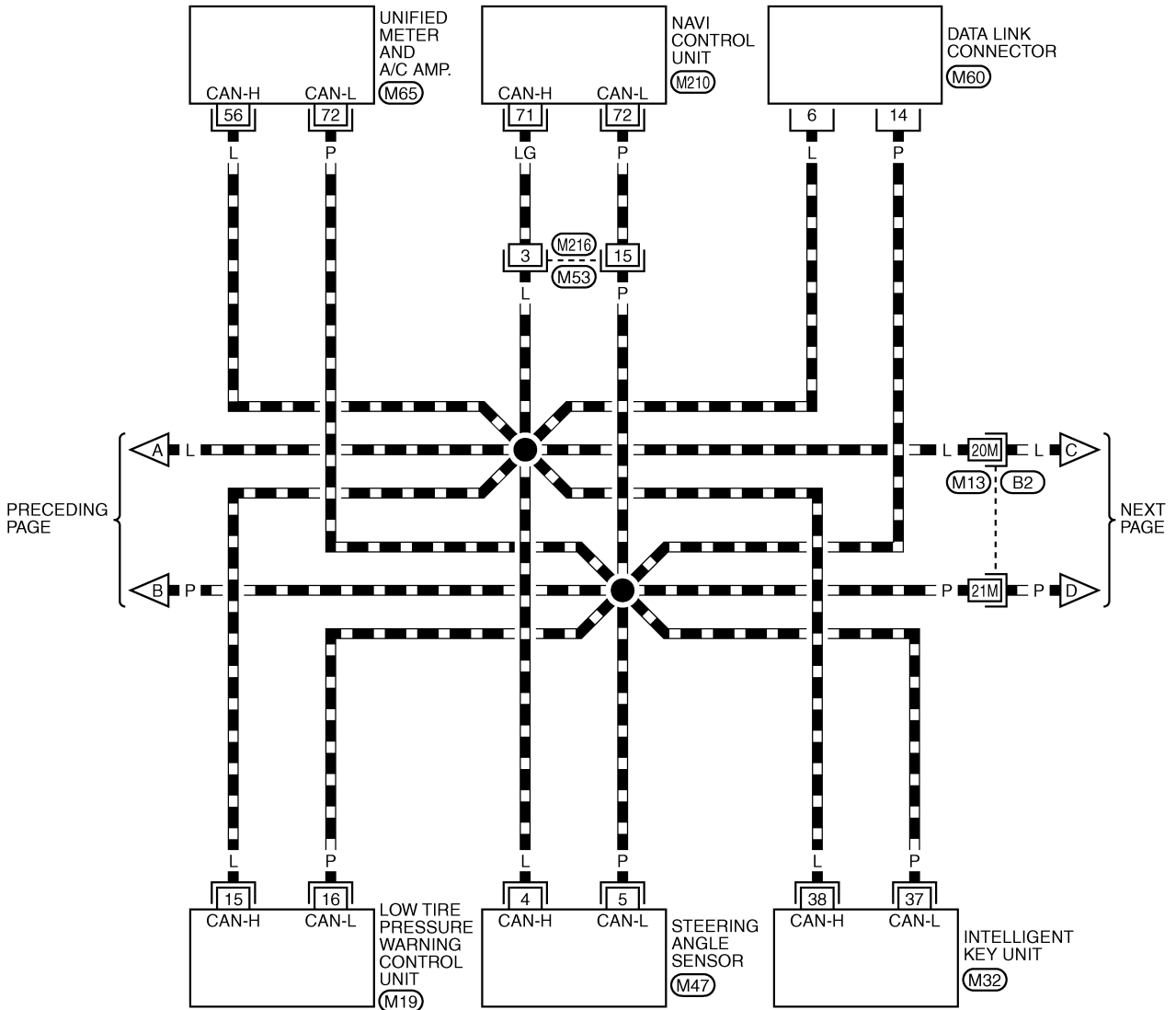
TKWT3314E

# CAN SYSTEM (TYPE 15)

[CAN]

## LAN-CAN-54

▬ : DATA LINE



REFER TO THE FOLLOWING.

(B2) -SUPER MULTIPLE JUNCTION (SMJ)

(M32) -ELECTRICAL UNITS

TKWT3315E

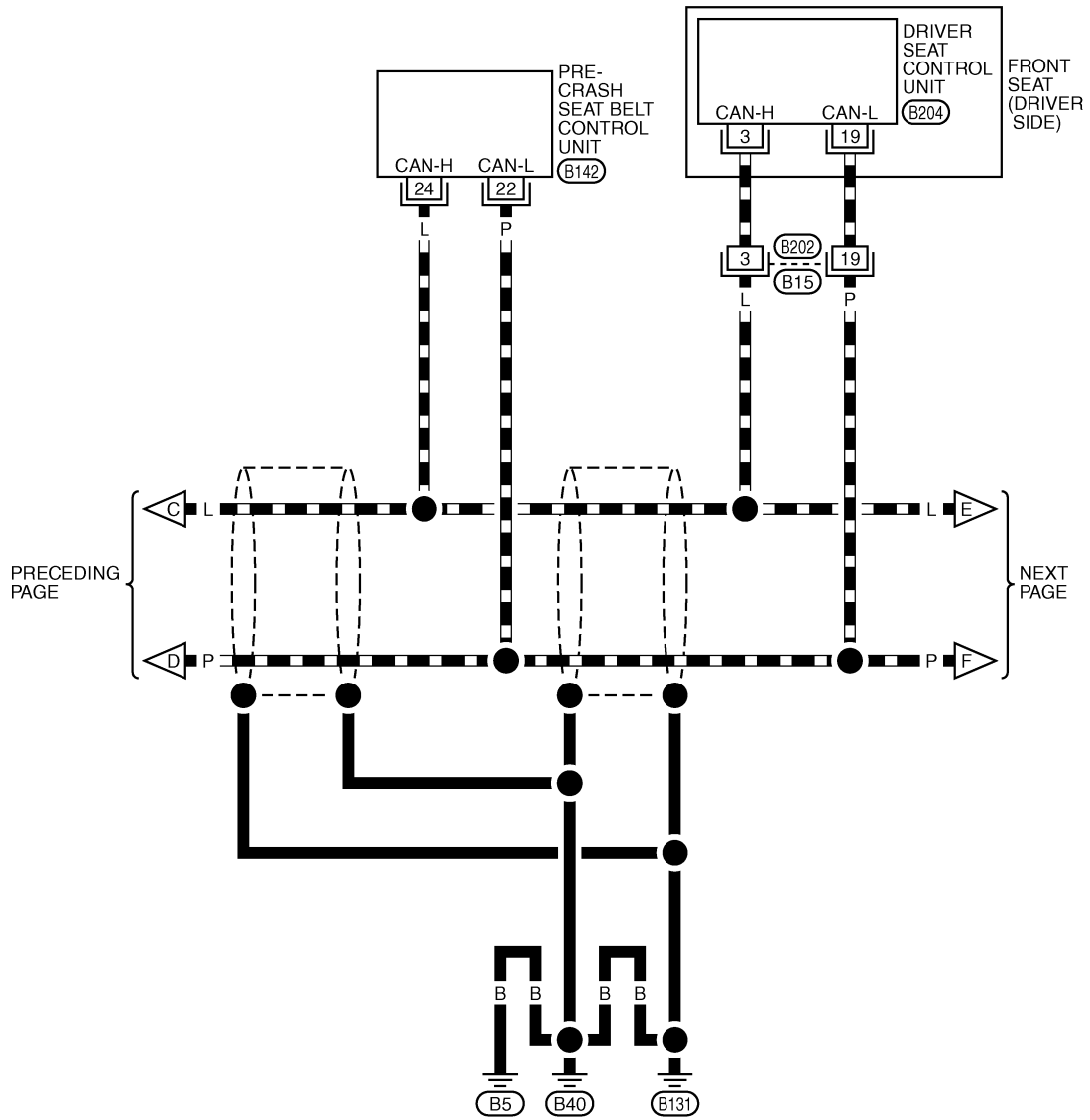


# CAN SYSTEM (TYPE 15)

[CAN]

## LAN-CAN-55

▬ : DATA LINE



A  
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I  
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L  
M

LAN

19	3	1	17	40		
61	60	59	32	48	21	33

(B15)  
W

6	5	4	12	11	10	9	8	7	3	2	1		
26	25	24	23	22	21	20	19	18	17	16	15	14	13

(B142)  
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

(B204)  
W

H.S.

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

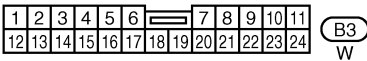
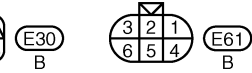
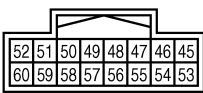
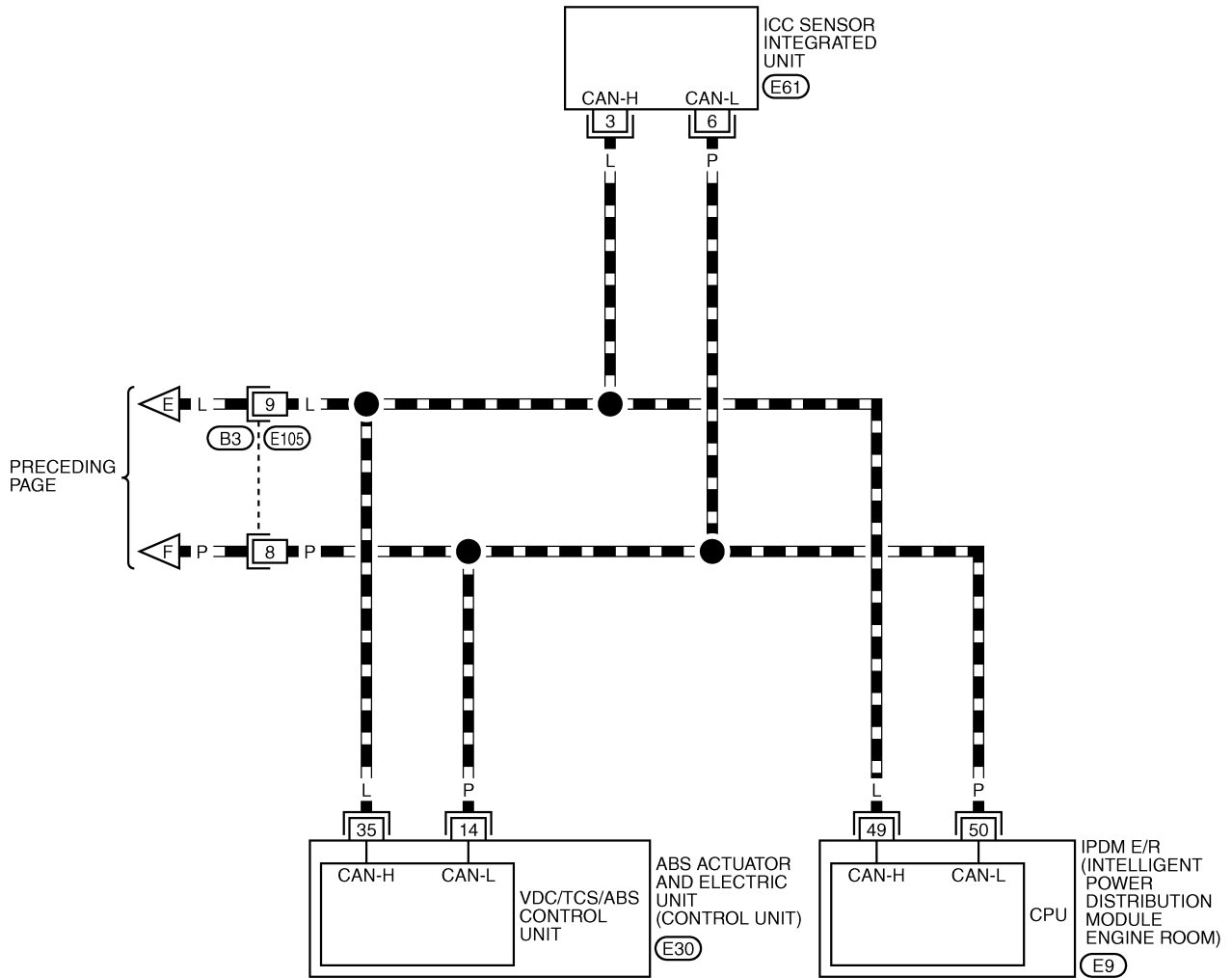
TKWT3316E

# CAN SYSTEM (TYPE 15)

[CAN]

## LAN-CAN-56

▬ : DATA LINE



TKWT3317E

# CAN SYSTEM (TYPE 15)

[CAN]

NKS0047G

## Check Sheet

### NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Check sheet table

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis															
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

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PKIB8562E

# CAN SYSTEM (TYPE 15)

[CAN]

Attach copy of  
ENGINE  
SELF-DIAG RESULTS

Attach copy of  
A/T  
SELF-DIAG RESULTS

Attach copy of  
ALL MODE AWD/4WD  
SELF-DIAG RESULTS

Attach copy of  
ADAPTIVE LIGHT  
SELF-DIAG RESULTS

Attach copy of  
BCM  
SELF-DIAG RESULTS

Attach copy of  
LDW  
SELF-DIAG RESULTS

Attach copy of  
AIR PRESSURE MONITOR  
SELF-DIAG RESULTS

Attach copy of  
INTELLIGENT KEY  
SELF-DIAG RESULTS

Attach copy of  
METER A/C AMP  
SELF-DIAG RESULTS

Attach copy of  
MULTI AV  
SELF-DIAG RESULTS

Attach copy of  
PRECRASH SEATBELT  
SELF-DIAG RESULTS

Attach copy of  
AUTO DRIVE POS.  
SELF-DIAG RESULTS

Attach copy of  
ABS  
SELF-DIAG RESULTS

Attach copy of  
ICC  
SELF-DIAG RESULTS

Attach copy of  
IPDM E/R  
SELF-DIAG RESULTS

PKIB9571E

# CAN SYSTEM (TYPE 15)

[CAN]

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Attach copy of  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ALL MODE AWD/4WD  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ADAPTIVE LIGHT  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
LDW  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
AIR PRESSURE MONITOR  
CAN DIAG SUPPORT  
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Attach copy of  
INTELLIGENT KEY  
CAN DIAG SUPPORT  
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Attach copy of  
METER A/C AMP  
CAN DIAG SUPPORT  
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Attach copy of  
MULTI AV  
CAN DIAG SUPPORT  
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Attach copy of  
PRECRASH SEATBELT  
CAN DIAG SUPPORT  
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AUTO DRIVE POS.  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
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Attach copy of  
ICC  
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Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIB9572E



# CAN SYSTEM (TYPE 15)

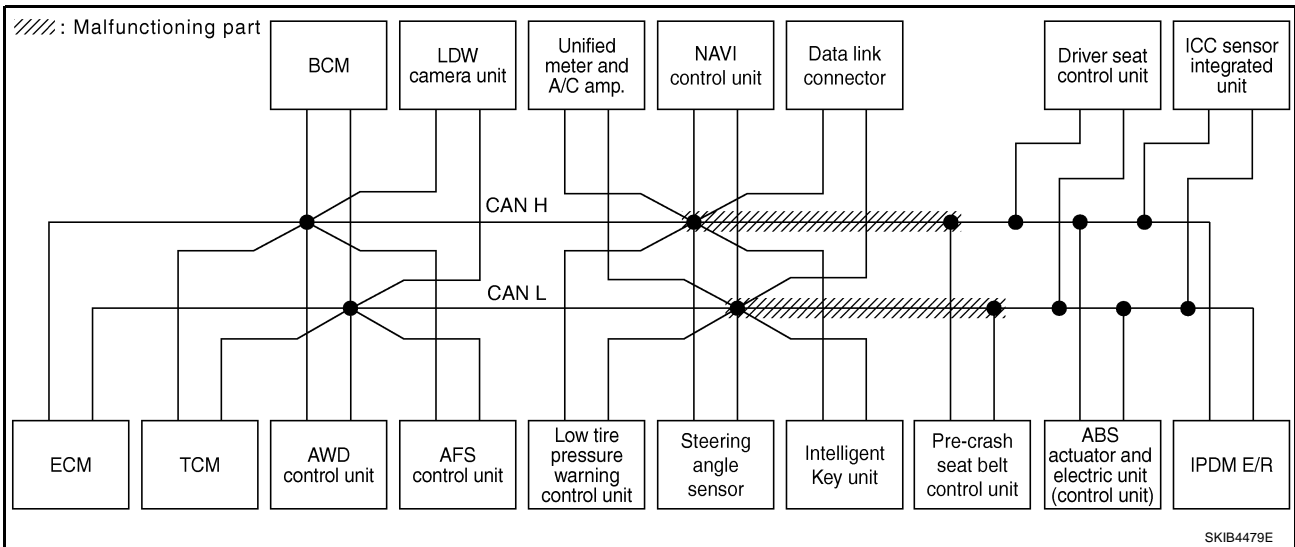
[CAN]

## Case 2

Check harness between data link connector and pre-crash seat belt control unit. Refer to [LAN-738, "Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U101)		
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV					VDC/TCS/ABS	ICC/e4WD
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	✓	✓	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U101) ✓
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	✓	✓	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	✓	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	—	✓	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	✓	✓	—	CAN COMM CIRCUIT (U1000) ✓	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIB8564E



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LAN

# CAN SYSTEM (TYPE 15)

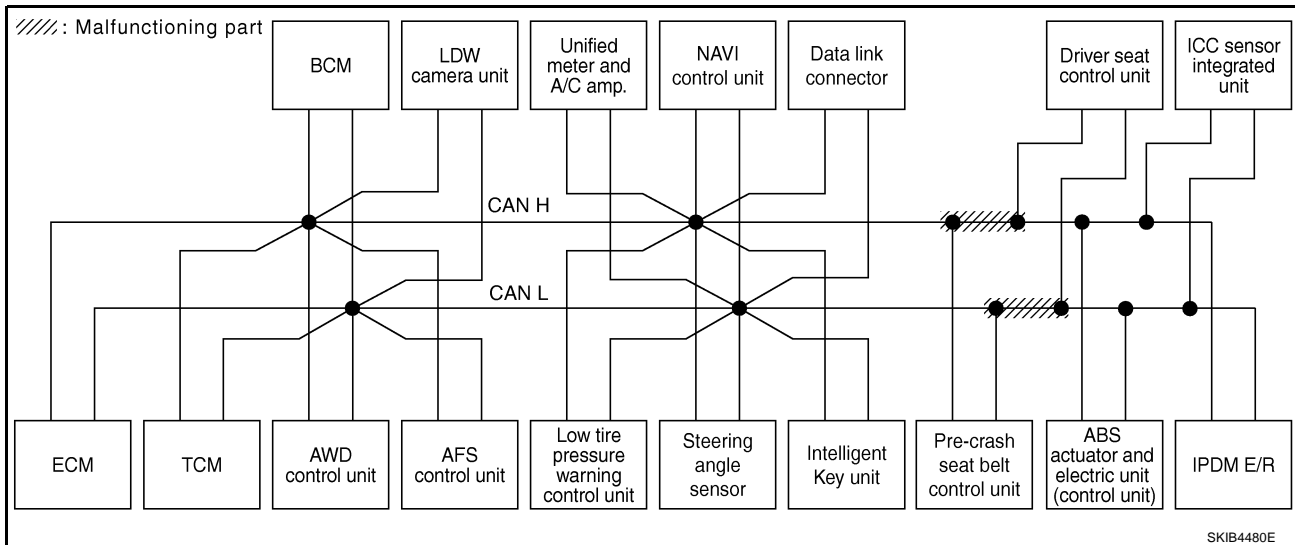
[CAN]

## Case 3

Check harness between pre-crash seat belt control unit and driver seat control unit. Refer to [LAN-739](#), "Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U100)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
LDW	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U100)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U100)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	—	—
ABS	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U100)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIB8565E



SKIB4480E



# CAN SYSTEM (TYPE 15)

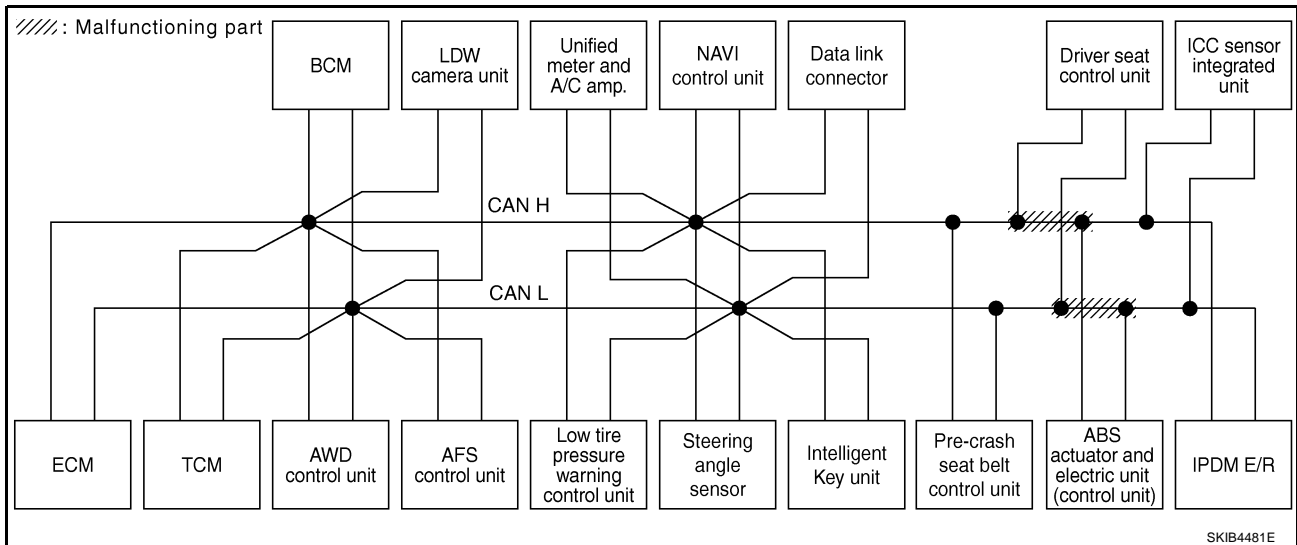
[CAN]

## Case 4

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-739, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U101)		
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD	IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8566E



SKIB4481E



# CAN SYSTEM (TYPE 15)

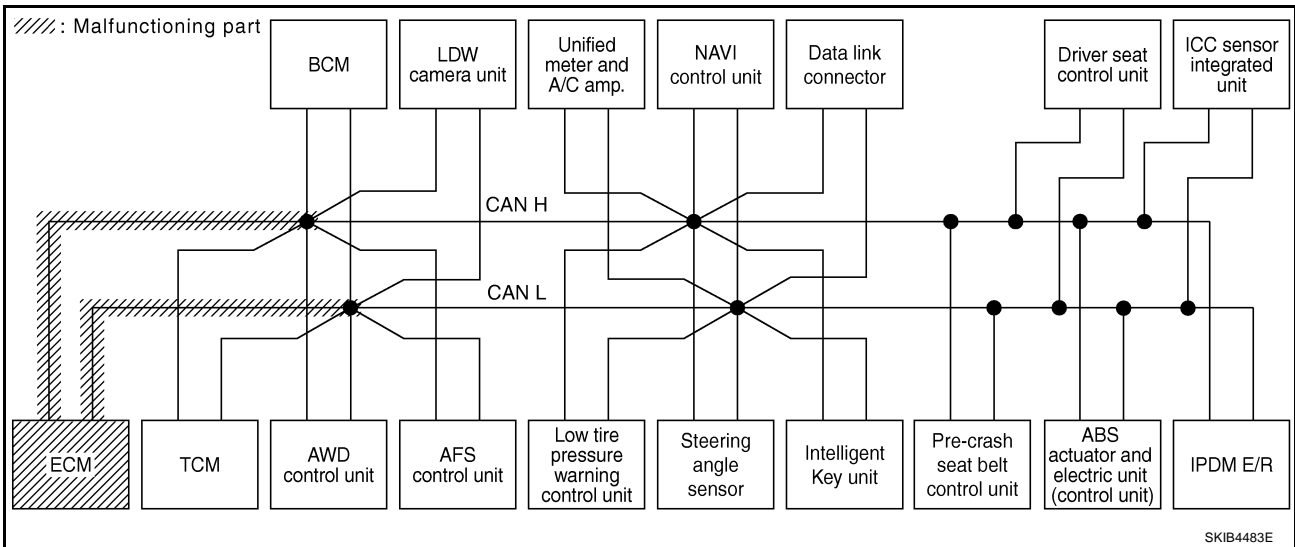
[CAN]

## Case 6

Check ECM circuit. Refer to [LAN-741, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS				
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										CAN COMM. CIRCUIT (U000)			CAN COMM. CIRCUIT (U011)		
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV					VDC/TCS/ABS	ICC/e4WD
ENGINE	—	—	UNKWVN	—	UNKWVN	UNKWVN	—	UNKWVN	—	—	—	—	UNKWVN	—	UNKWVN	UNKWVN	UNKWVN	CAN COMM. CIRCUIT (U000)	CAN COMM. CIRCUIT (U011)
A/T	—	NG	UNKWVN	UNKWVN	—	UNKWVN	—	—	—	—	—	—	UNKWVN	—	UNKWVN	UNKWVN	—	CAN COMM. CIRCUIT (U000)	—
ALL MODE AWD/4WD	—	NG	UNKWVN	UNKWVN	—	—	—	—	—	—	—	—	UNKWVN	—	UNKWVN	—	—	CAN COMM. CIRCUIT (U000)	—
ADAPTIVE LIGHT	No indication	—	UNKWVN	UNKWVN	—	—	—	—	—	UNKWVN	—	—	UNKWVN	—	—	—	UNKWVN	CAN COMM. CIRCUIT (U000)	—
BCM	No indication	—	UNKWVN	UNKWVN	—	—	—	—	—	—	—	UNKWVN	UNKWVN	UNKWVN	—	—	UNKWVN	CAN COMM. CIRCUIT (U000)	—
LDW	No indication	—	UNKWVN	UNKWVN	—	—	—	—	—	—	—	—	—	UNKWVN	—	—	—	CAN COMM. CIRCUIT (U000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWVN	UNKWVN	—	—	—	—	—	—	—	—	—	UNKWVN	—	—	—	CAN COMM. CIRCUIT (U000)	—
INTELLIGENT KEY	No indication	—	UNKWVN	UNKWVN	—	—	—	—	—	—	—	UNKWVN	—	UNKWVN	—	UNKWVN	—	CAN COMM. CIRCUIT (U000)	—
METER A/C AMP	No indication	—	UNKWVN	UNKWVN	UNKWVN	UNKWVN	UNKWVN	UNKWVN	UNKWVN	—	UNKWVN	—	UNKWVN	UNKWVN	UNKWVN	—	—	CAN COMM. CIRCUIT (U000)	—
MULTI AV	No indication	—	UNKWVN	UNKWVN	—	—	—	UNKWVN	UNKWVN	—	—	—	UNKWVN	—	—	—	UNKWVN	CAN COMM. CIRCUIT (U000)	—
PRECRASH SEATBELT	No indication	—	UNKWVN	UNKWVN	—	—	—	—	—	—	—	—	UNKWVN	—	—	—	—	CAN COMM. CIRCUIT (U000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWVN	—	—	UNKWVN	—	—	—	—	UNKWVN	—	—	—	—	CAN COMM. CIRCUIT (U1000)	—
ABS	—	NG	UNKWVN	UNKWVN	UNKWVN	—	—	—	—	UNKWVN	—	—	—	—	UNKWVN	—	—	CAN COMM. CIRCUIT (U000)	—
ICC	No indication	—	UNKWVN	UNKWVN	—	—	—	UNKWVN	—	—	—	—	UNKWVN	—	UNKWVN	—	—	CAN COMM. CIRCUIT (U000)	—
IPDM E/R	No indication	—	UNKWVN	UNKWVN	—	—	—	UNKWVN	—	—	—	—	—	—	—	—	—	CAN COMM. CIRCUIT (U000)	—

PKIB8568E



SKIB4483E

# CAN SYSTEM (TYPE 15)

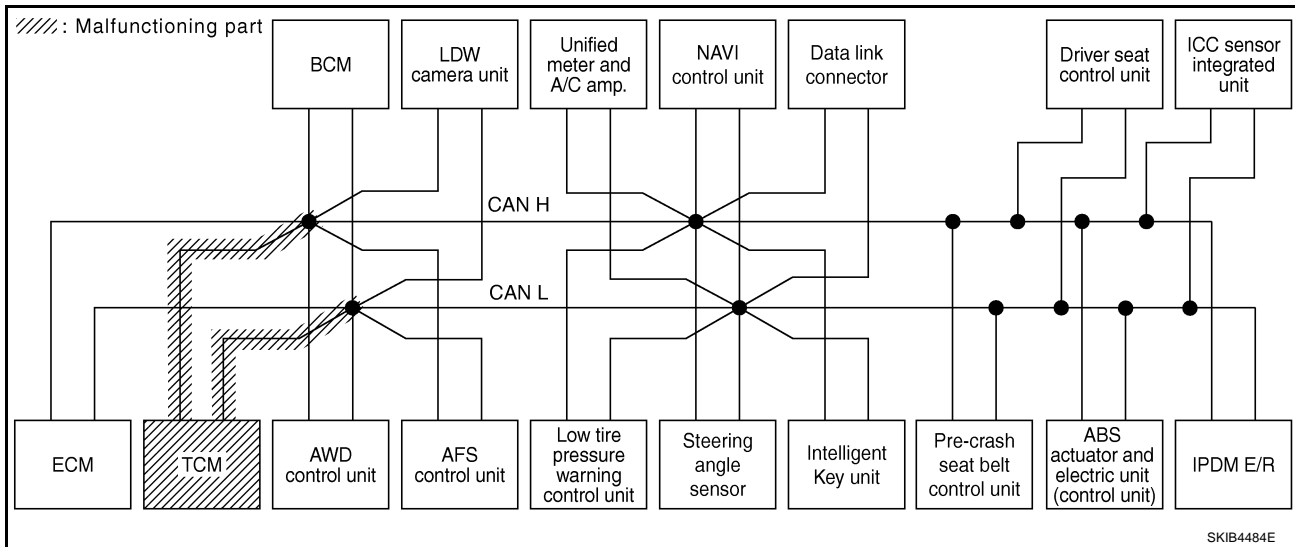
[CAN]

## Case 7

Check TCM circuit. Refer to [LAN-741, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM. CIRCUIT (U1000)			CAN COMM. CIRCUIT (U101)	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM. CIRCUIT (U1000) ✓	CAN COMM. CIRCUIT (U101) ✓
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM. CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM. CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM. CIRCUIT (U1000) ✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM. CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM. CIRCUIT (U1000) ✓	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM. CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM. CIRCUIT (U1000) ✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM. CIRCUIT (U1000) ✓	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM. CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM. CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM. CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM. CIRCUIT (U1000) ✓	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM. CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM. CIRCUIT (U1000)	—

PKIB8569E



SKIB4484E

# CAN SYSTEM (TYPE 15)

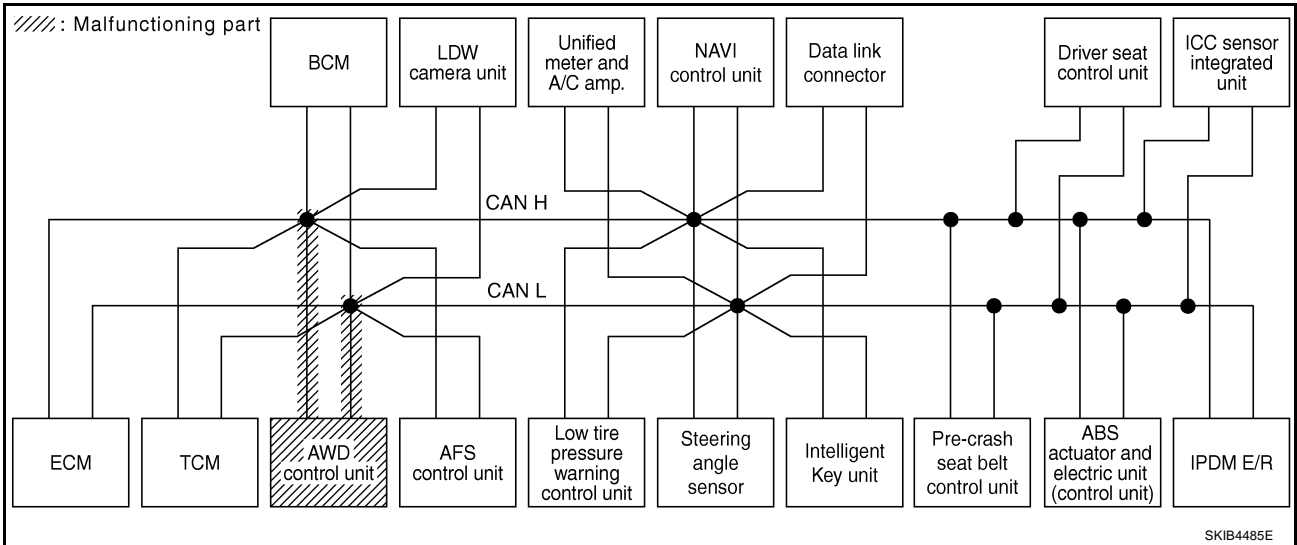
[CAN]

## Case 8

Check AWD control unit circuit. Refer to [LAN-742, "AWD Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD
ENGINE	—	—	UNKW	—	UNKW	✓	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	✓	—	—	—	—	—	—	UNKW	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	✓	UNKW	—	—	—	—	—	—	—	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	UNKW	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	✓	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	✓	—	—	—	UNKW	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8570E



SKIB4485E

# CAN SYSTEM (TYPE 15)

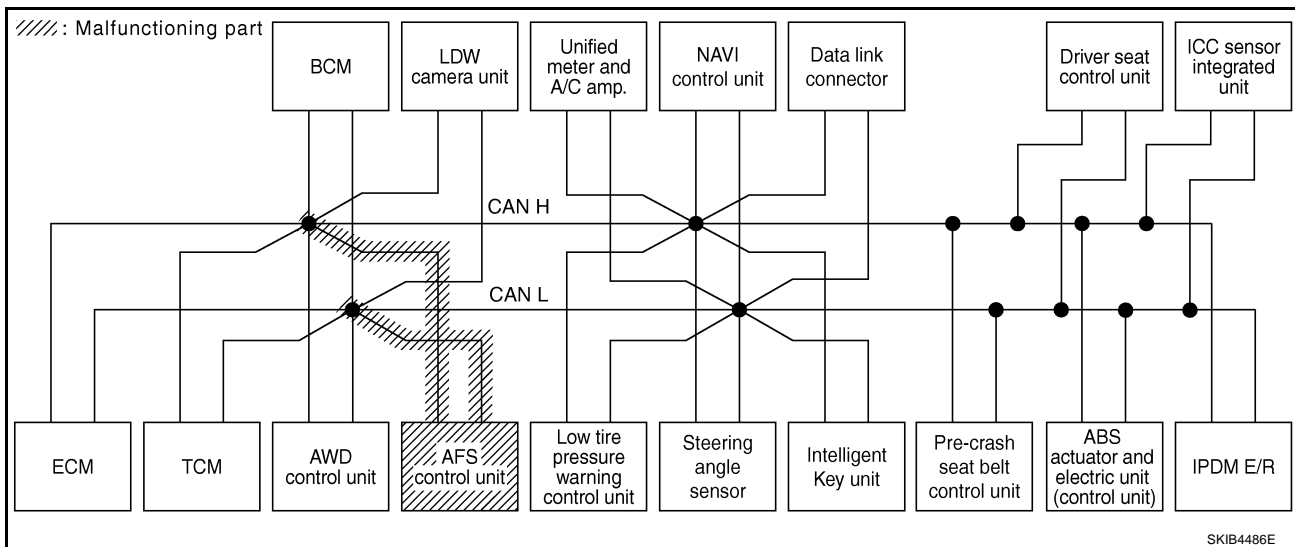
[CAN]

## Case 9

Check AFS control unit circuit. Refer to [LAN-742, "AFS Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD	IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8571E



SKIB4486E

# CAN SYSTEM (TYPE 15)

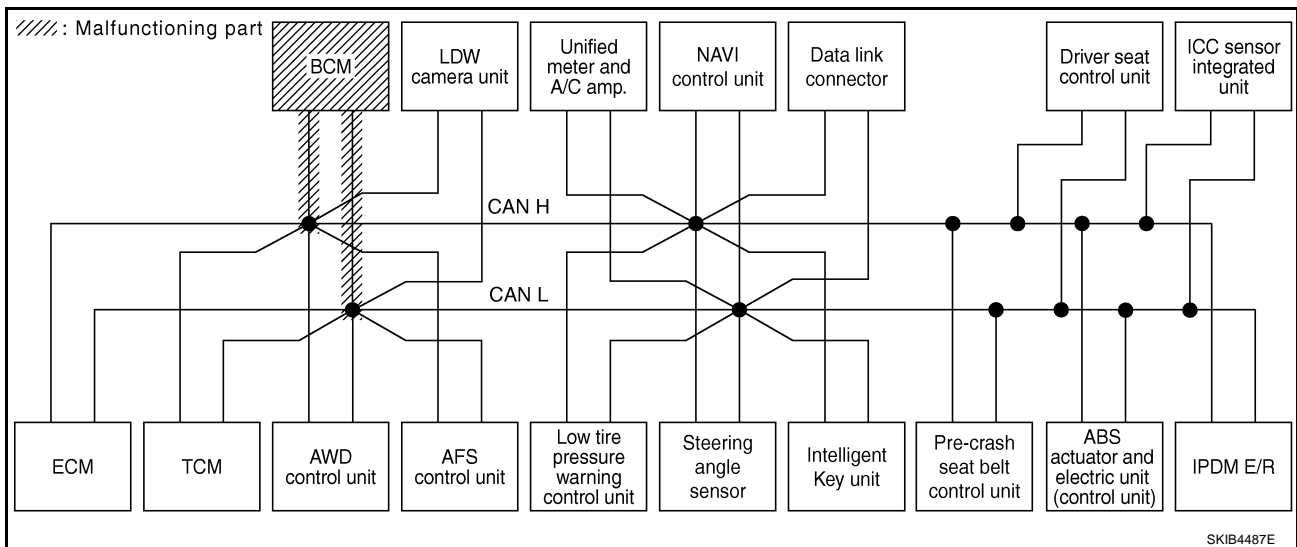
[CAN]

## Case 10

Check BCM circuit. Refer to [LAN-743, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD
ENGINE	—	—	UNKW	—	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	UNKW	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	—	—	—	—	—
ABS	—	NG	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8572E



SKIB4487E

# CAN SYSTEM (TYPE 15)

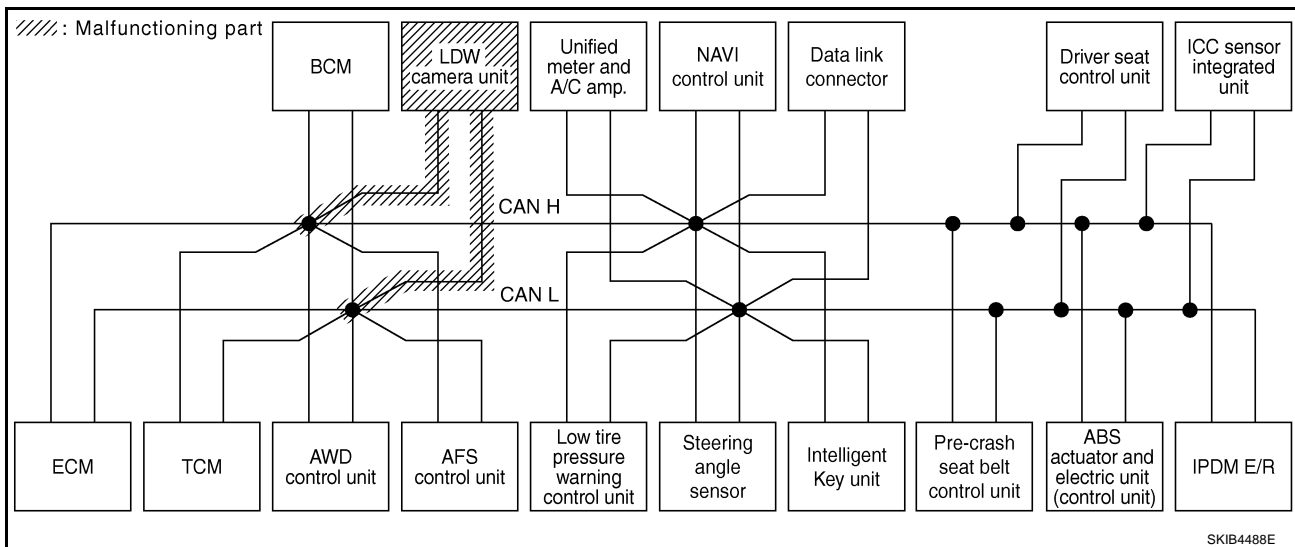
[CAN]

## Case 11

Check LDW camera unit circuit. Refer to [LAN-743, "LDW Camera Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8573E



SKIB4488E



# CAN SYSTEM (TYPE 15)

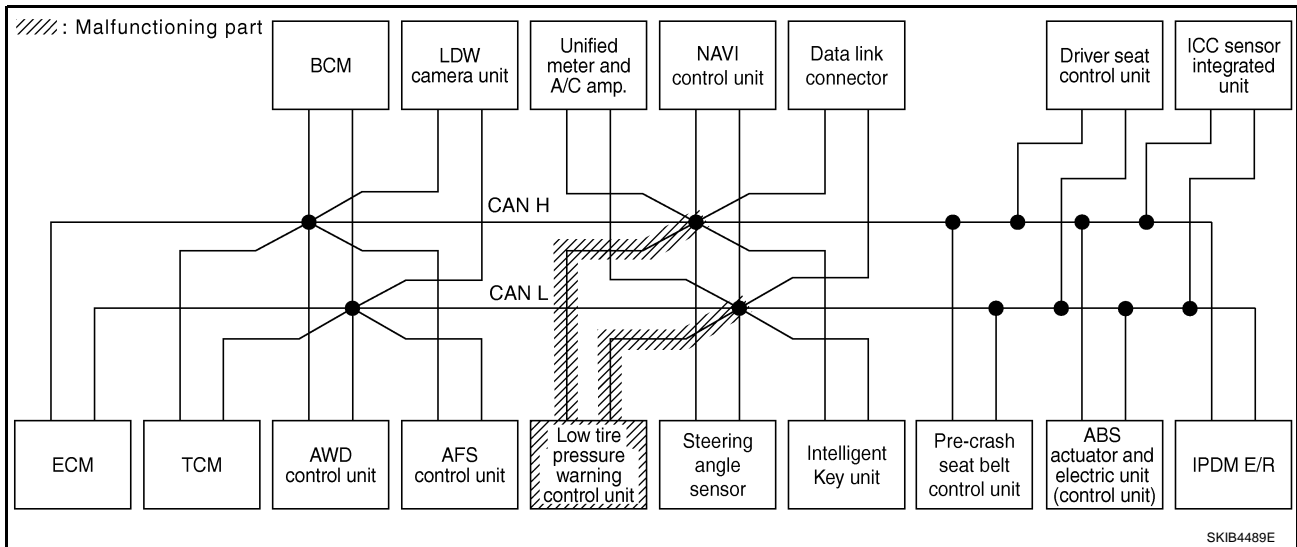
[CAN]

## Case 12

Check low tire pressure warning control unit circuit. Refer to [LAN-744, "Low Tire Pressure Warning Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8574E



SKIB4489E

# CAN SYSTEM (TYPE 15)

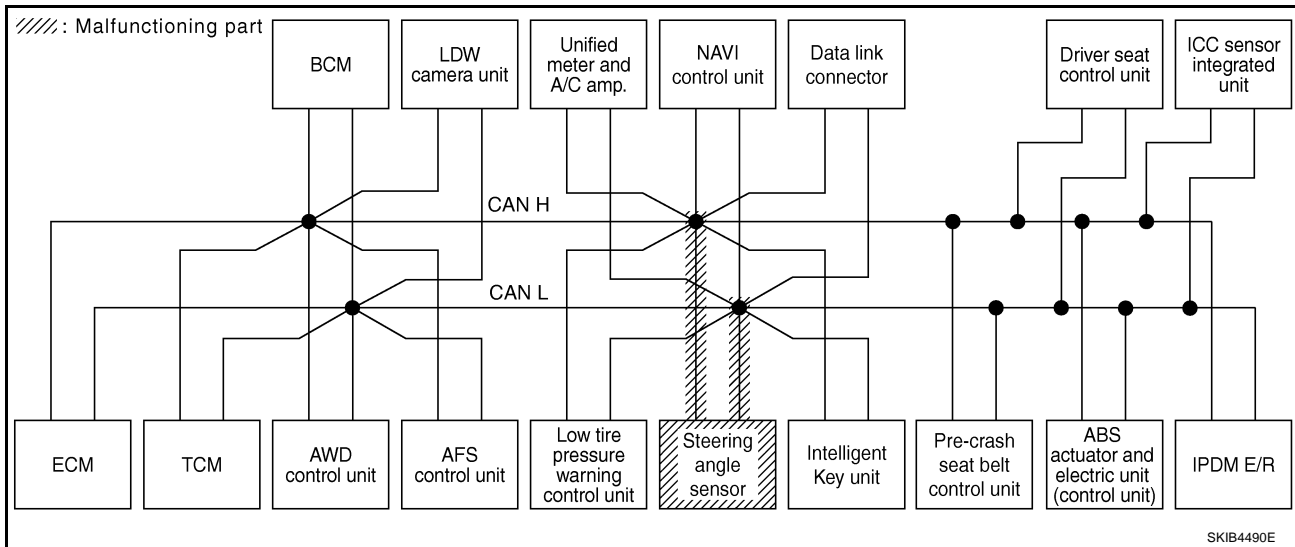
[CAN]

## Case 13

Check steering angle sensor circuit. Refer to [LAN-744, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)		
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD	IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8575E



SKIB4490E

# CAN SYSTEM (TYPE 15)

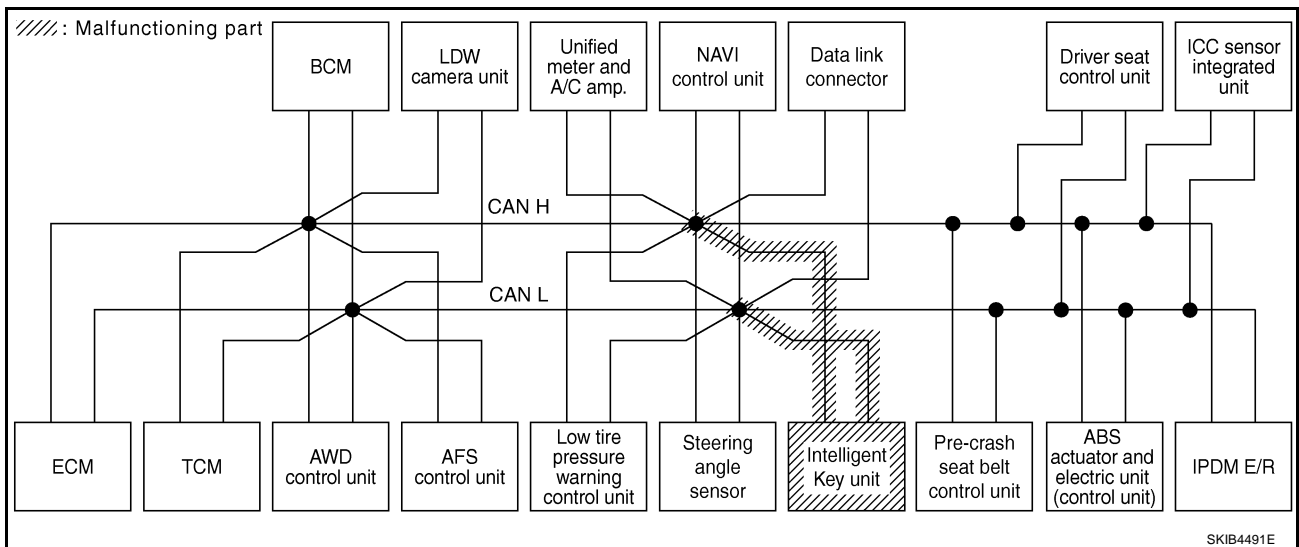
[CAN]

## Case 14

Check Intelligent Key unit circuit. Refer to [LAN-745, "Intelligent Key Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8576E



SKIB4491E



# CAN SYSTEM (TYPE 15)

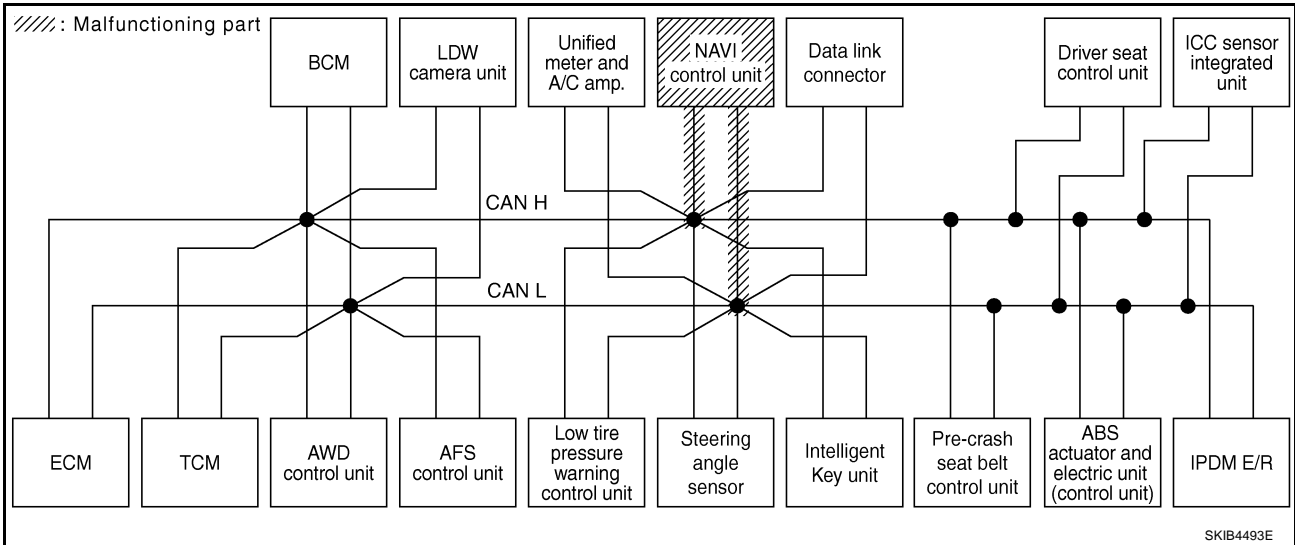
[CAN]

## Case 16

Check NAVI control unit circuit. Refer to [LAN-746, "NAVI Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD
ENGINE	—	—	UNKW	—	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	UNKW	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	—	UNKW	—	—	UNKW	—	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	UNKW	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKW	UNKW	—	—	UNKW	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	—	UNKW	UNKW	—	—	—	UNKW	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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# CAN SYSTEM (TYPE 15)

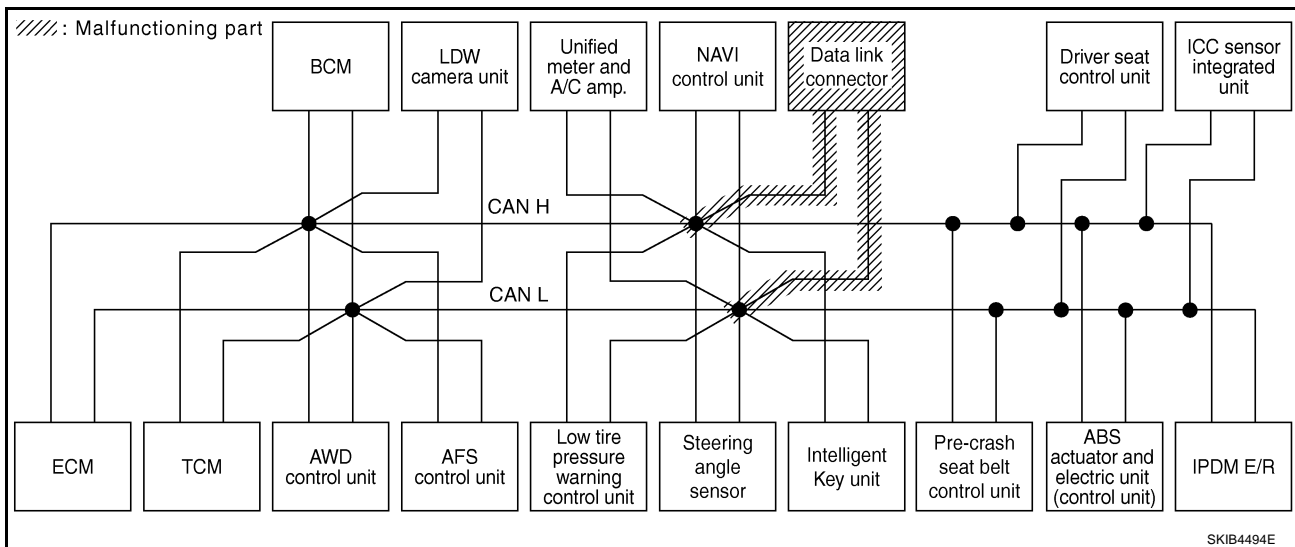
[CAN]

## Case 17

Check data link connector circuit. Refer to [LAN-746, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT		—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM		—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW		—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR		—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY		—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP		—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV		—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT		—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.		NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC		—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R		—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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SKIB4494E

# CAN SYSTEM (TYPE 15)

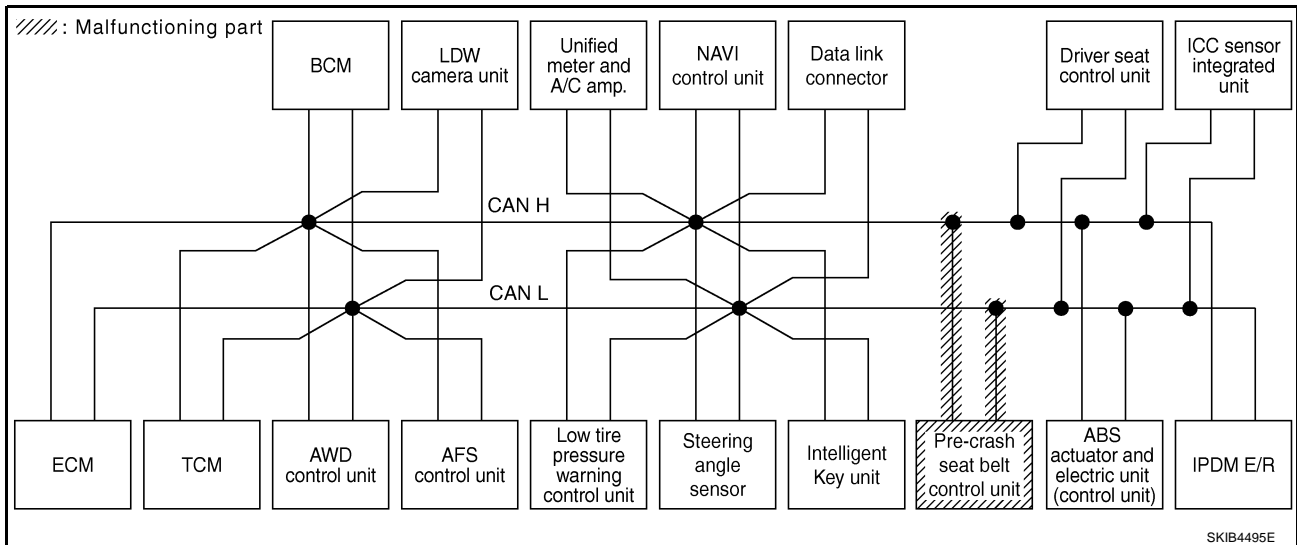
[CAN]

## Case 18

Check pre-crash seat belt control unit circuit. Refer to [LAN-747, "Pre-Crash Seat Belt Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8580E



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# CAN SYSTEM (TYPE 15)

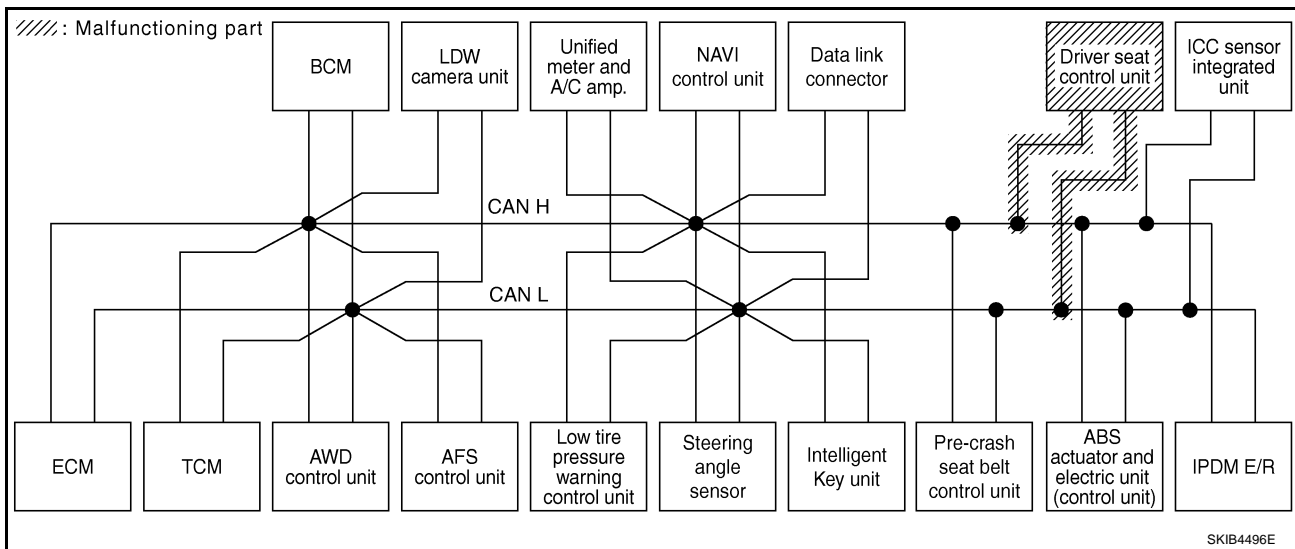
[CAN]

## Case 19

Check driver seat control unit circuit. Refer to [LAN-747, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD	IPDM E/R				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8581E





# CAN SYSTEM (TYPE 15)

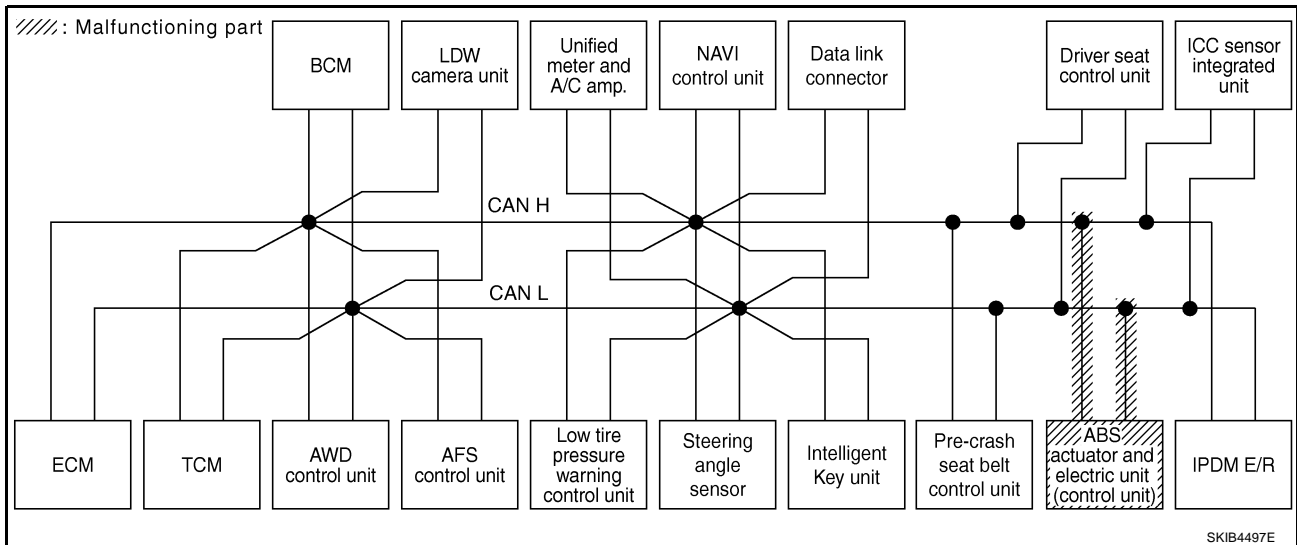
[CAN]

## Case 20

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-748, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS						
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)				
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
LDW	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
PRECRASH SEATBELT	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	✓	✓	✓	✓	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	

PKIB8582E



SKIB4497E

# CAN SYSTEM (TYPE 15)

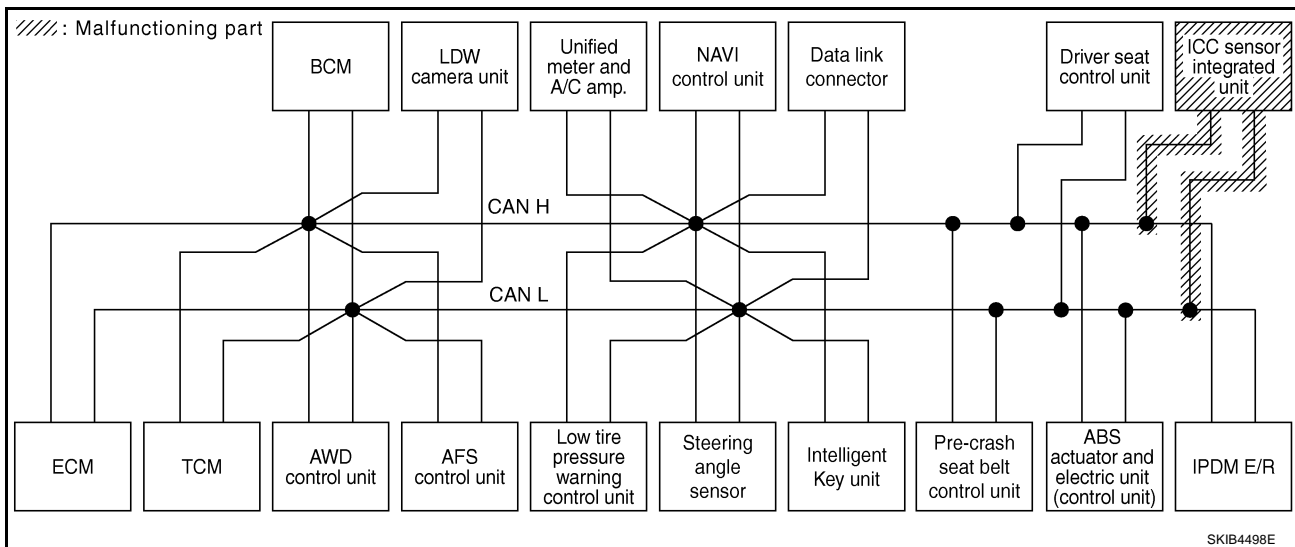
[CAN]

## Case 21

Check ICC sensor integrated unit circuit. Refer to [LAN-748, "ICC Sensor Integrated Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8583E



SKIB4498E

# CAN SYSTEM (TYPE 15)

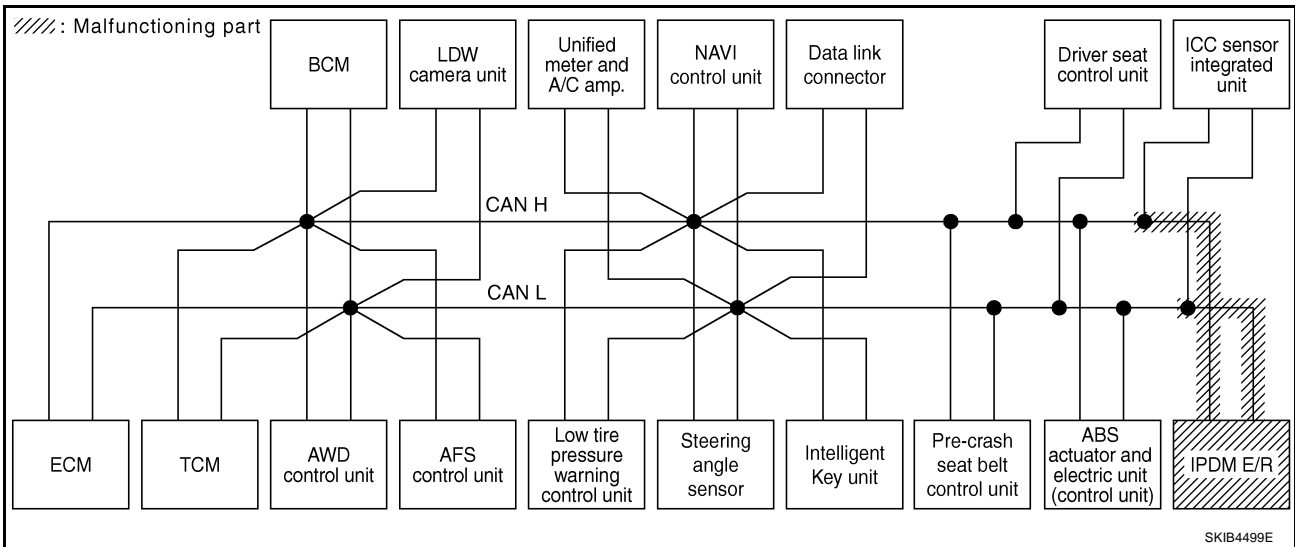
[CAN]

## Case 23

Check IPDM E/R circuit. Refer to [LAN-749, "IPDM E/R Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)	
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS					ICC/e4WD
ENGINE	—	—	UNKW	—	UNKW	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	UNKW	UNKW	✓	—
A/T	—	NG	UNKW	UNKW	—	UNKW	—	—	—	—	—	—	UNKW	—	UNKW	UNKW	—	—	—
ALL MODE AWD/4WD	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	UNKW	—	—	—	—
ADAPTIVE LIGHT	No indication	—	UNKW	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	UNKW	✓	—
BCM	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	UNKW	UNKW	—	—	UNKW	✓
LDW	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	—	—	—
AIR PRESSURE MONITOR	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	—	UNKW	—	—	—	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	UNKW	—	—	UNKW	✓
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	UNKW	UNKW	—	—	—
MULTI AV	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	UNKW	—	—	—	—	UNKW	✓
PRECRASH SEATBELT	No indication	—	—	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	—	—	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKW	—	—	—	—	—	—	—	UNKW	—	—	—	—	—	—
ABS	—	NG	UNKW	UNKW	UNKW	UNKW	—	—	—	—	—	—	—	—	—	UNKW	—	—	—
ICC	No indication	—	UNKW	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	UNKW	—	—	—	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

PKIB8584E



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# CAN SYSTEM (TYPE 15)

[CAN]

## Case 24

Check CAN communication circuit. Refer to [LAN-750, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U10)			CAN COMM CIRCUIT (U1)
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U10)	CAN COMM CIRCUIT (U1)
A/T	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U10)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U10)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U10)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U10)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U10)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U10)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U10)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U10)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U10)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U10)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U10)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U10)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U10)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U10)	—

PKIB8585E

## Case 25

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-758, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1)
				ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1)
A/T	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8586E

## Case 26

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-758, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR															SELF-DIAG RESULTS			
	Initial diagnosis	Transmit diagnosis	Receive diagnosis												IPDM E/R			CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
			ECM	TCM	AWD/4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER/M&A	MULTI AV	VDC/TCS/ABS	ICC/e4WD					
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
A/T	—	NG	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8587E

## Inspection Between TCM and Data Link Connector Circuit

NKS0047H

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M61
  - Harness connector M62

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

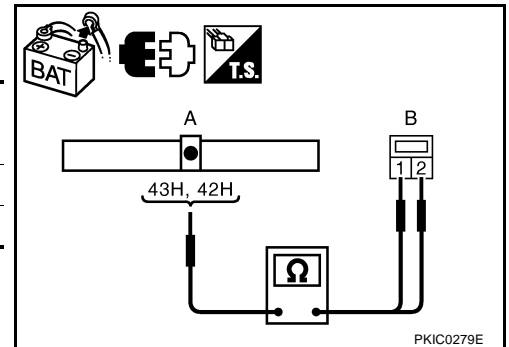
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M72 and harness connector M61.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	43H	M61	1	Yes
	42H		2	Yes

**OK or NG**

- OK >> GO TO 3.
- NG >> Repair harness.



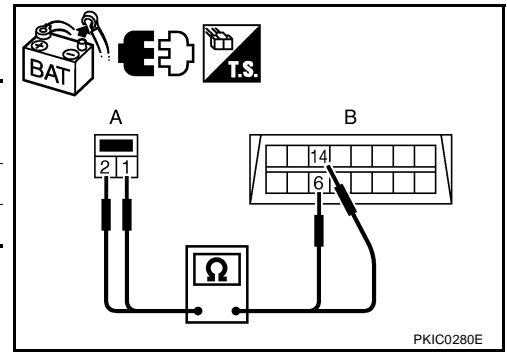
### 3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M62	1	M60	6	Yes
	2		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



### Inspection Between Data Link Connector and Pre-Crash Seat Belt Control Unit Circuit

NKS00471

#### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector M13
  - Harness connector B2

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

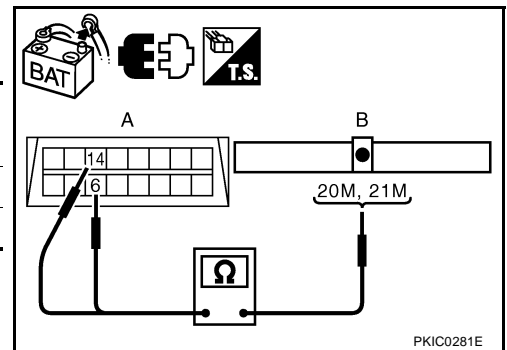
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M13.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M60	6	M13	20M	Yes
	14		21M	Yes

OK or NG

- OK >> GO TO 3.
- NG >> Repair harness.



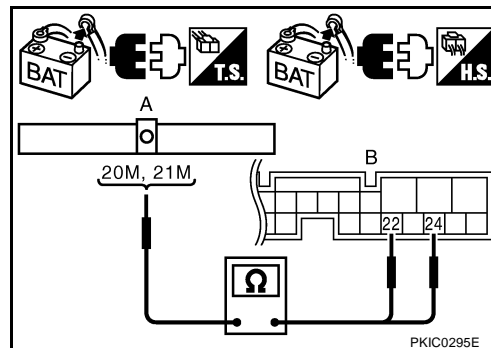
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check continuity between harness connector (A) and pre-crash seat belt control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B2	20M	B142	24	Yes
	21M		22	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



## Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

NKS0047J

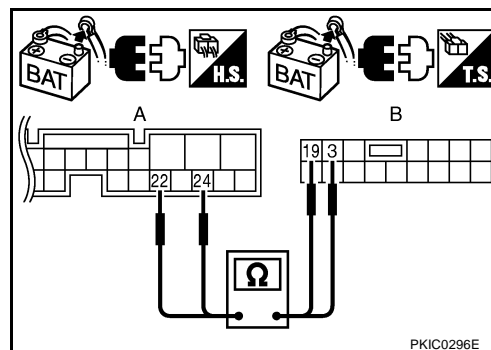
### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - Pre-crash seat belt control unit connector
  - harness connector B15
4. Check continuity between pre-crash seat belt control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B142	24	B15	3	Yes
	22		19	Yes

**OK or NG**

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Replace harness.



## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS0047K

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
  - Harness connector B3
  - Harness connector E105

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

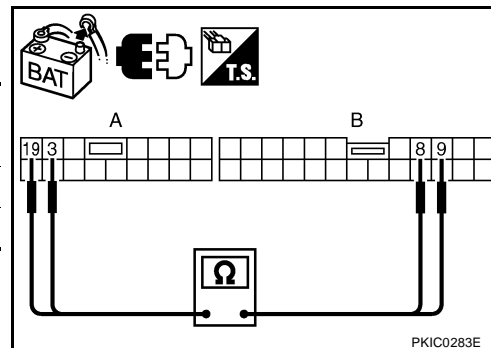
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B15 and harness connector B3.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

OK or NG

- OK >> GO TO 3.  
 NG >> Replace harness.



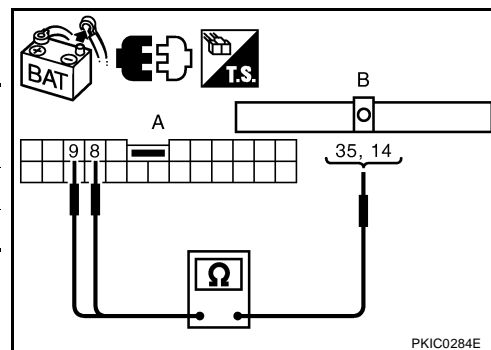
## 3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E105	9	E30	35	Yes
	8		14	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).  
 NG >> Repair harness.



## Inspection Between ABS Actuator and Electric Unit and ICC Sensor Integrated Unit Circuit

NKS0047L

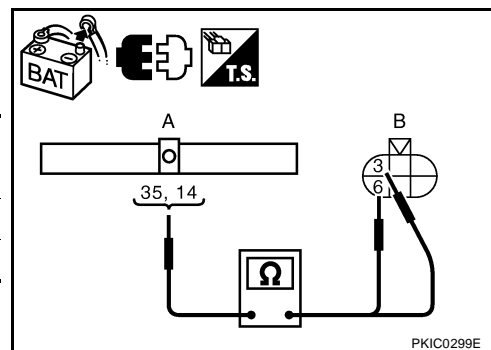
### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
  - ECM connector
  - ABS actuator and electric unit (control unit) connector
  - ICC sensor integrated unit connector
4. Check continuity between ABS actuator and electric unit (control unit) harness connector (A) and ICC sensor integrated unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E30	35	E61	3	Yes
	14		6	Yes

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).  
 NG >> Repair harness.





**ECM Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

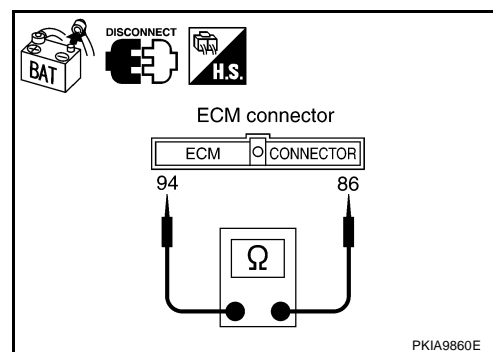
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector terminals.

ECM connector	Terminal		Resistance (Approx.)
M71	94	86	108 – 132 Ω

**OK or NG**

- OK >> Replace ECM.  
 NG >> Repair harness between ECM and A/T assembly.

**TCM Circuit Inspection****1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
  - A/T assembly connector
  - Harness connector F102
  - Harness connector M72

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

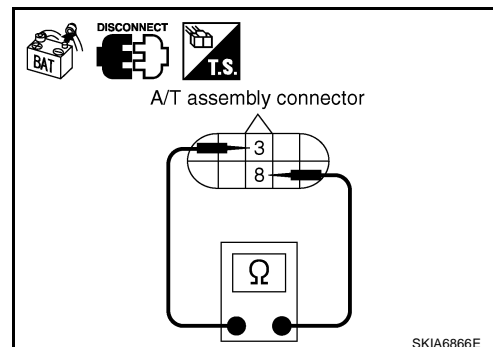
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Resistance (Approx.)
F42	3	8	54 – 66 Ω

**OK or NG**

- OK >> Replace control valve with TCM.  
 NG >> Repair harness between A/T assembly and AWD control unit.



## AWD Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AWD control unit connector
  - Harness connector F102
  - Harness connector M72

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

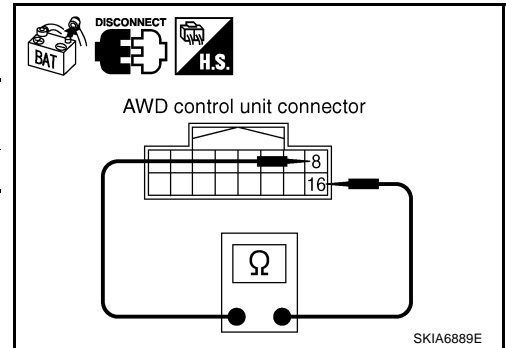
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector terminals.

AWD control unit connector	Terminal		Resistance (Approx.)
F109	8	16	54 – 66 Ω

OK or NG

- OK >> Replace AWD control unit.  
 NG >> Repair harness between AWD control unit and AFS control unit.



## AFS Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - AFS control unit connector
  - Harness connector F102
  - Harness connector M72

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

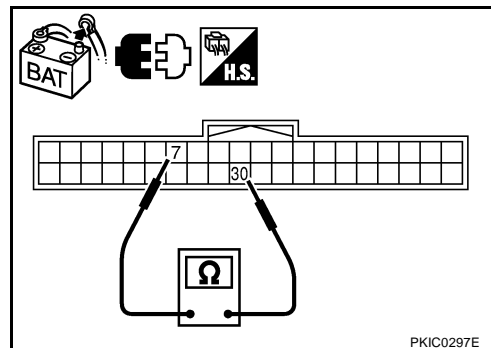
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AFS control unit connector.
2. Check resistance between AFS control unit harness connector terminals.

AFS control unit connector	Terminal		Resistance (Approx.)
	30	7	
F110	30	7	54 – 66 Ω

### OK or NG

- OK >> Replace AFS control unit.  
 NG >> Repair harness between AFS control unit and BCM.



NKS0047Q

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

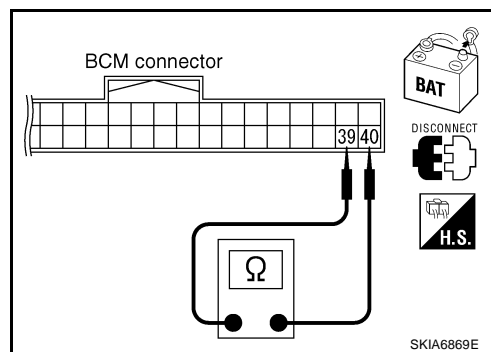
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
	39	40	
M1	39	40	54 – 66 Ω

### OK or NG

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and LDW camera unit.



NKS0047R

## LDW Camera Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of LDW camera unit for damage, bend and loose connection (unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

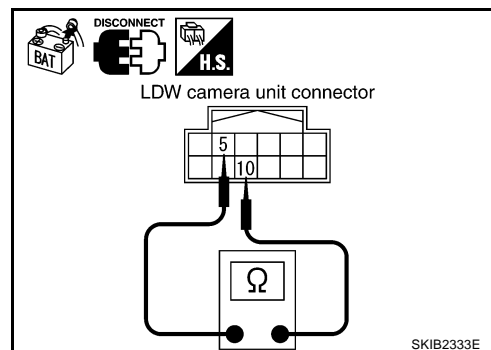
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check resistance between LDW camera unit harness connector terminals.

LDW camera unit connector	Terminal		Resistance (Approx.)
	10	5	
M182	10	5	54 – 66 Ω

### OK or NG

- OK >> Replace LDW camera unit.  
 NG >> Repair harness between LDW camera unit and harness connector M61.



## Low Tire Pressure Warning Control Unit Circuit Inspection

NKS0047S

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

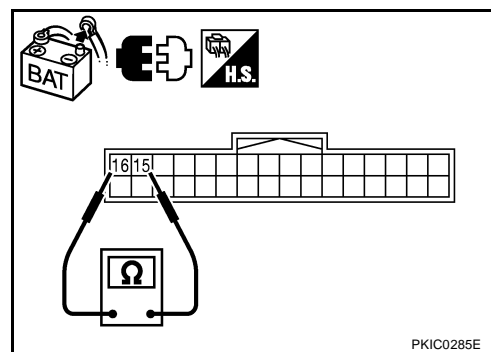
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Check resistance between low tire pressure warning control unit harness connector terminals.

Low tire pressure warning control unit connector	Terminal		Resistance (Approx.)
	15	16	
M19	15	16	54 – 66 Ω

### OK or NG

- OK >> Replace low tire pressure warning control unit.  
 NG >> Repair harness between low tire pressure warning control unit and data link connector.



## Steering Angle Sensor Circuit Inspection

NKS0047T

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

### OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

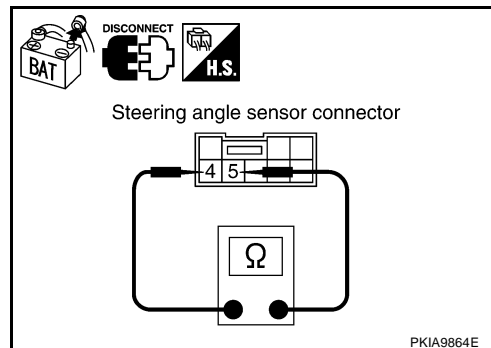
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	4	5	54 – 66 Ω

**OK or NG**

- OK >> Replace steering angle sensor.  
 NG >> Repair harness between steering angle sensor and data link connector.



NKS0047U

## Intelligent Key Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

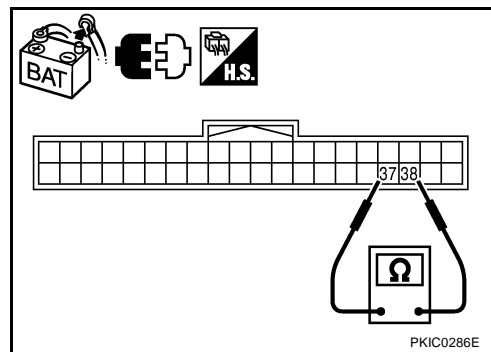
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terminal		Resistance (Approx.)
M32	38	37	54 – 66 Ω

**OK or NG**

- OK >> Replace Intelligent Key unit.  
 NG >> Repair harness between Intelligent Key unit and data link connector.



NKS0047V

## Unified Meter and A/C Amp. Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

**OK or NG**

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

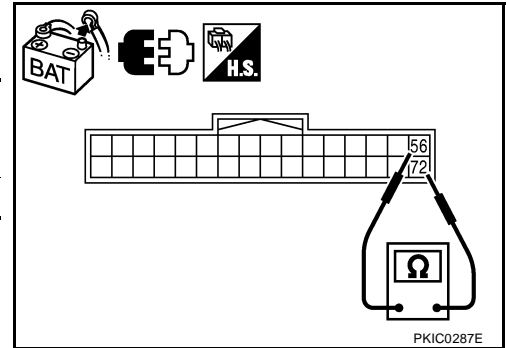
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connector	Terminal		Resistance (Approx.)
M65	56	72	54 – 66 Ω

**OK or NG**

- OK >> Replace unified meter and A/C amp.
- NG >> Repair harness between unified meter and A/C amp. and data link connector.



NKS0047W

## NAVI Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - NAVI control unit connector
  - Harness connector M216
  - Harness connector M53

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

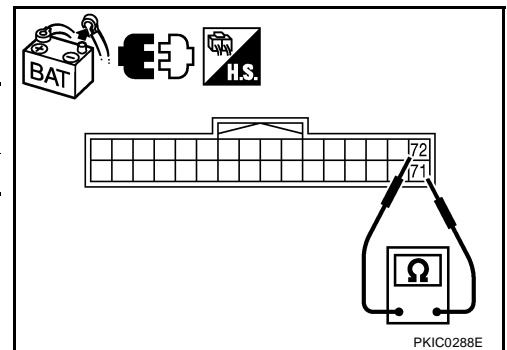
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check resistance between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal		Resistance (Approx.)
M210	71	72	54 – 66 Ω

**OK or NG**

- OK >> Replace NAVI control unit.
- NG >> Repair harness between NAVI control unit and data link connector.



NKS0047X

## Data Link Connector Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check data link connector and terminals for damage, bend and loose connection (connector side and harness side).

**OK or NG**

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

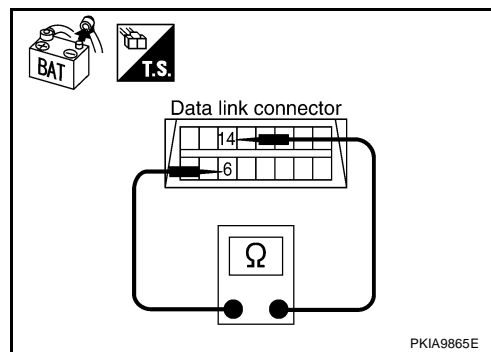
## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M60	6	14	54 – 66 Ω

### OK or NG

- OK >> Diagnose again. Refer to [LAN-9, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and harness connector M13.



## Pre-Crash Seat Belt Control Unit Circuit Inspection

NKS0047Y

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of pre-crash seat belt control unit for damage, bend and loose connection (control unit side and harness side).

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

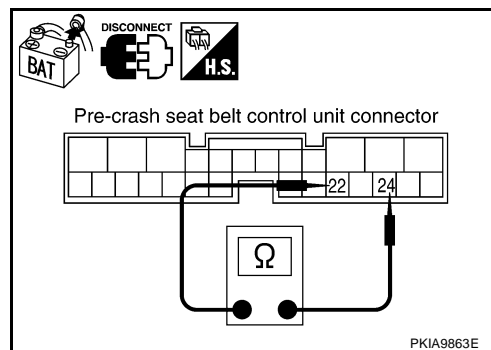
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect pre-crash seat belt control unit connector.
2. Check resistance between pre-crash seat belt control unit harness connector terminals.

Pre-crash seat belt control unit connector	Terminal		Resistance (Approx.)
B142	24	22	54 – 66 Ω

### OK or NG

- OK >> Replace pre-crash seat belt control unit.
- NG >> Replace harness.



NKS0047Z

## Driver Seat Control Unit Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
  - Driver seat control unit connector
  - Harness connector B202
  - Harness connector B15

### OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

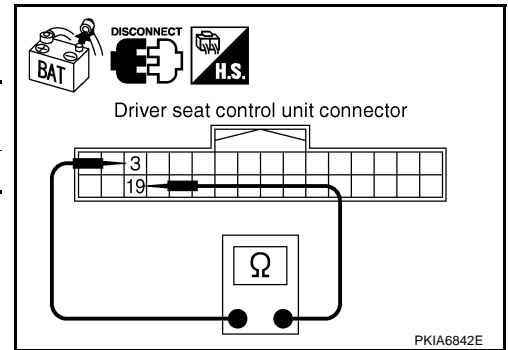
## 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Resistance (Approx.)
B204	3	19	54 – 66 Ω

**OK or NG**

- OK     >> Replace driver seat control unit.  
 NG     >> Replace harness.



## ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

NKS00480

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

**OK or NG**

- OK     >> GO TO 2.  
 NG     >> Repair terminal or connector.

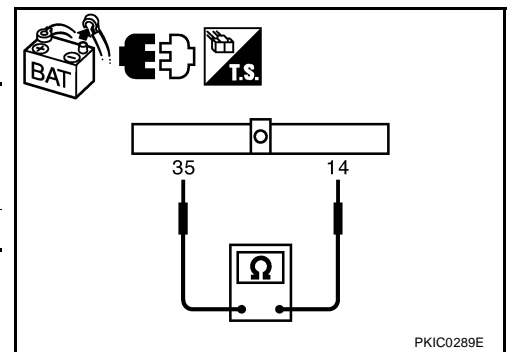
### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E30	35	14	54 – 66 Ω

**OK or NG**

- OK     >> Replace ABS actuator and electric unit (control unit).  
 NG     >> Repair harness between ABS actuator and electric unit (control unit) and ICC sensor integrated unit.



## ICC Sensor Integrated Unit Circuit Inspection

NKS00481

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ICC sensor integrated unit for damage, bend and loose connection (unit side and harness side).

**OK or NG**

- OK     >> GO TO 2.  
 NG     >> Repair terminal or connector.



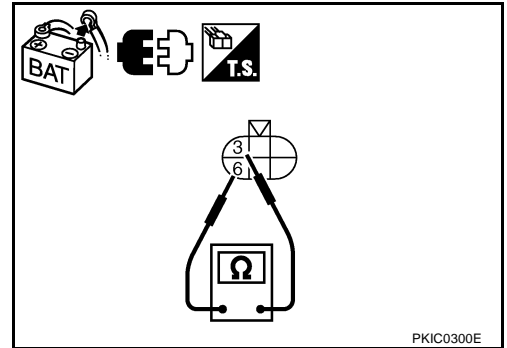
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect ICC sensor integrated unit connector.
2. Check resistance between ICC sensor integrated unit harness connector terminals.

ICC sensor integrated unit connector	Terminal		Resistance (Approx.)
E61	3	6	54 – 66 Ω

OK or NG

- OK >> Replace ICC sensor integrated unit.  
 NG >> Repair harness between ICC sensor integrated unit and IPDM E/R.



PKIC0300E

NKS00482

**IPDM E/R Circuit Inspection**

**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

OK or NG

- OK >> GO TO 2.  
 NG >> Repair terminal or connector.

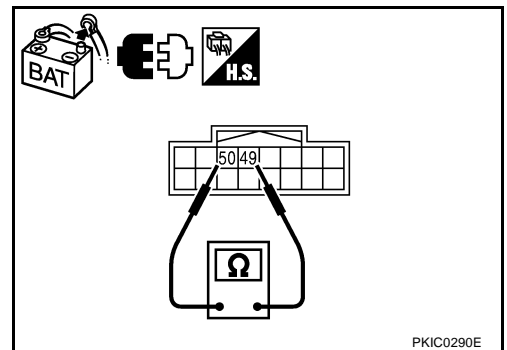
**2. CHECK HARNESS FOR OPEN CIRCUIT**

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	49	50	108 – 132 Ω

OK or NG

- OK >> Replace IPDM E/R.  
 NG >> Repair harness between IPDM E/R and ICC sensor integrated unit.



PKIC0290E

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**CAN Communication Circuit Inspection**

NKS00483

**1. CHECK CONNECTOR**

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1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side, control unit side, unit side, sensor side, meter side and harness side).
  - ECM
  - A/T assembly
  - AWD control unit
  - AFS control unit
  - BCM
  - LDW camera unit
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ICC sensor integrated unit
  - IPDM E/R
  - Between ECM and A/T assembly
  - Between ECM and AWD control unit
  - Between ECM and AFS control unit
  - Between ECM and NAVI control unit
  - Between ECM and driver seat control unit
  - Between ECM and IPDM E/R

OK or NG

- OK >> GO TO 2.  
NG >> Repair terminal or connector.

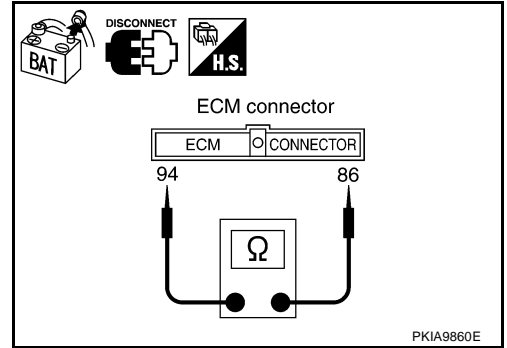
## 2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ECM connector
  - Harness connector M72
  - BCM connector
  - LDW camera unit connector
  - Harness connector M61
2. Check continuity between ECM harness connector terminals.

ECM connector	Terminal		Continuity
M71	94	86	No

**OK or NG**

- OK >> GO TO 3.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and LDW camera unit
  - Harness between ECM and harness connector M61



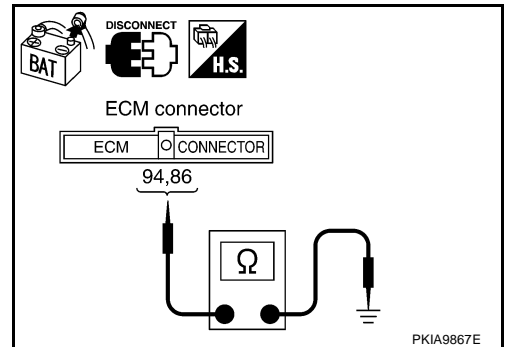
## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		
	86		No

**OK or NG**

- OK >> GO TO 4.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
  - Harness between ECM and harness connector M72
  - Harness between ECM and BCM
  - Harness between ECM and LDW camera unit
  - Harness between ECM and harness connector M61



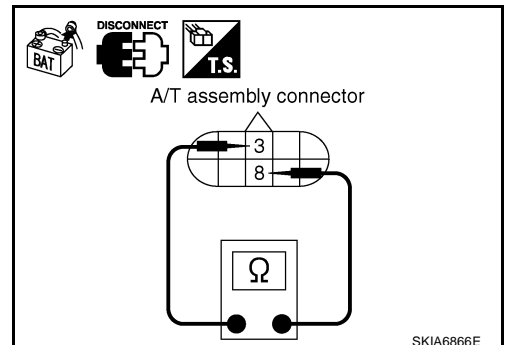
## 4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector terminals.

A/T assembly connector	Terminal		Continuity
F42	3	8	No

**OK or NG**

- OK >> GO TO 5.
- NG >> Repair harness between A/T assembly and harness connector F102.



## 5. CHECK HARNESS FOR SHORT CIRCUIT

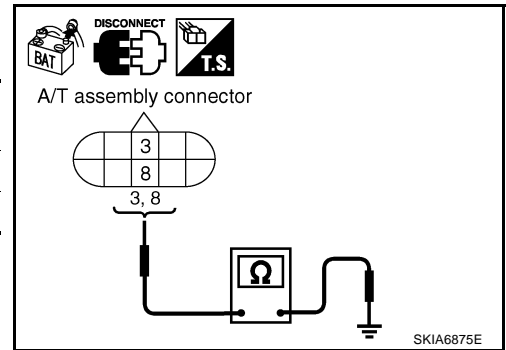
Check continuity between A/T assembly harness connector terminals and ground.

A/T assembly connector	Terminal	Ground	Continuity
F42	3		
	8	No	

**OK or NG**

OK >> GO TO 6.

NG >> Repair harness between A/T assembly and harness connector F102.



## 6. CHECK HARNESS FOR SHORT CIRCUIT

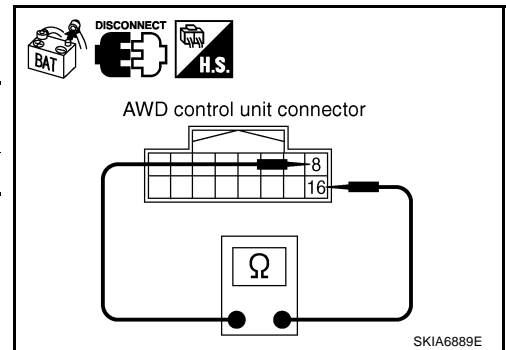
1. Disconnect AWD control unit connector.
2. Check continuity between AWD control unit harness connector terminals.

AWD control unit connector	Terminal	Continuity
F109	8, 16	

**OK or NG**

OK >> GO TO 7.

NG >> Repair harness between AWD control unit and harness connector F102.



## 7. CHECK HARNESS FOR SHORT CIRCUIT

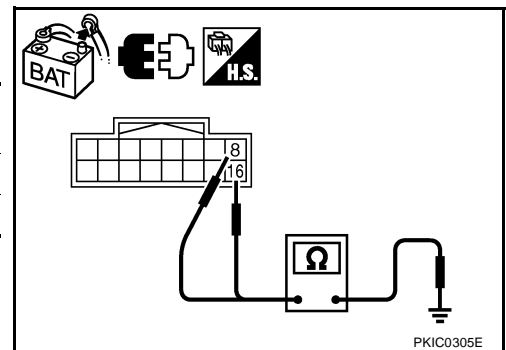
Check continuity between AWD control unit harness connector terminals and ground.

AWD control unit connector	Terminal	Ground	Continuity
F109	8		
	16	No	

**OK or NG**

OK >> GO TO 8.

NG >> Replace harness between AWD control unit and harness connector F102.



## 8. CHECK HARNESS FOR SHORT CIRCUIT

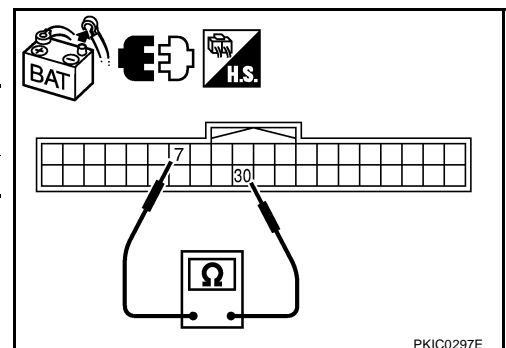
1. Disconnect AFS control unit connector.
2. Check continuity between AFS control unit harness connector terminals.

AFS control unit connector	Terminal	Continuity
F110	30, 7	

**OK or NG**

OK >> GO TO 9.

NG >> Repair harness between AFS control unit and harness connector F102.



## 9. CHECK HARNESS FOR SHORT CIRCUIT

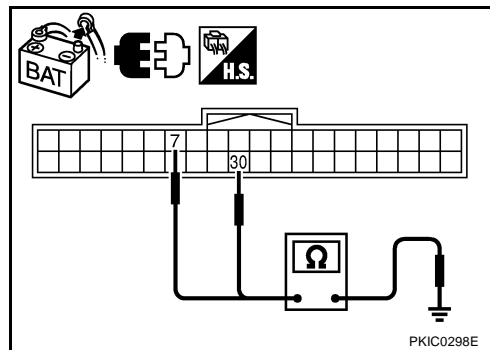
Check continuity between AFS control unit harness connector terminals and ground.

AFS control unit connector	Terminal	Ground	Continuity
F110	30		No
	7	No	

OK or NG

OK >> GO TO 10.

NG >> Replace harness between AFS control unit and harness connector F102.



## 10. CHECK HARNESS FOR SHORT CIRCUIT

- Disconnect following connectors.
  - Low tire pressure warning control unit connector
  - Steering angle sensor connector
  - Intelligent Key unit connector
  - Unified meter and A/C amp. connector
  - Harness connector M53
  - Harness connector M13
- Check continuity between data link connector terminals.

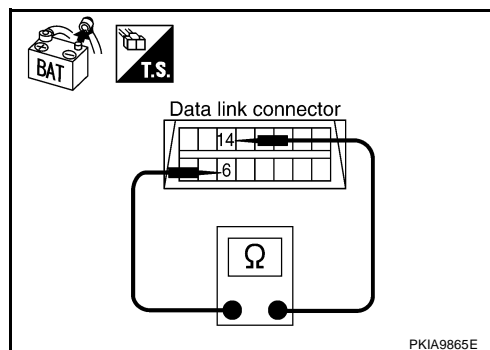
Data link connector	Terminal		Continuity
M60	6	14	No

OK or NG

OK >> GO TO 11.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



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## 11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

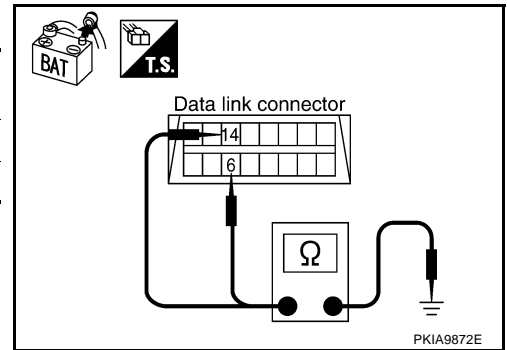
Data link connector	Terminal	Ground	Continuity
M60	6		
	14	No	

**OK or NG**

OK >> GO TO 12.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between data link connector and harness connector M62
- Harness between data link connector and low tire pressure warning control unit
- Harness between data link connector and steering angle sensor
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M53
- Harness between data link connector and harness connector M13



## 12. CHECK HARNESS FOR SHORT CIRCUIT

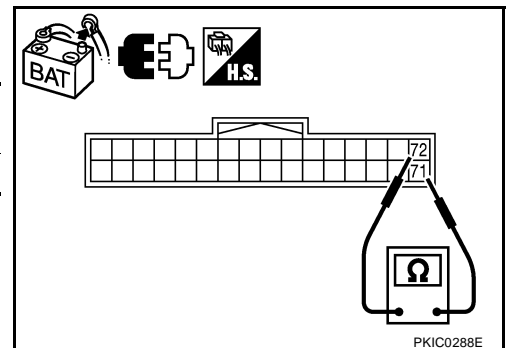
1. Disconnect NAVI control unit connector.
2. Check continuity between NAVI control unit harness connector terminals.

NAVI control unit connector	Terminal	Ground	Continuity
M210	71		72

**OK or NG**

OK >> GO TO 13.

NG >> Repair harness between NAVI control unit and harness connector M216.



## 13. CHECK HARNESS FOR SHORT CIRCUIT

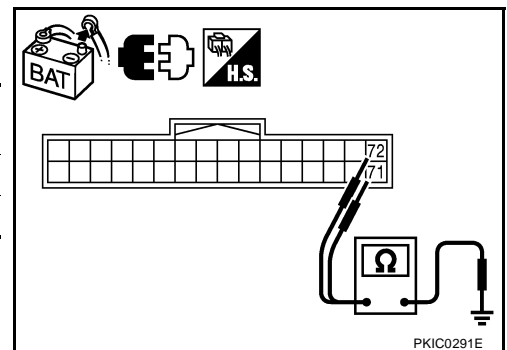
Check continuity between NAVI control unit harness connector terminals and ground.

NAVI control unit connector	Terminal	Ground	Continuity
M210	71		
	72	No	

**OK or NG**

OK >> GO TO 14.

NG >> Repair harness between NAVI control unit and harness connector M216.



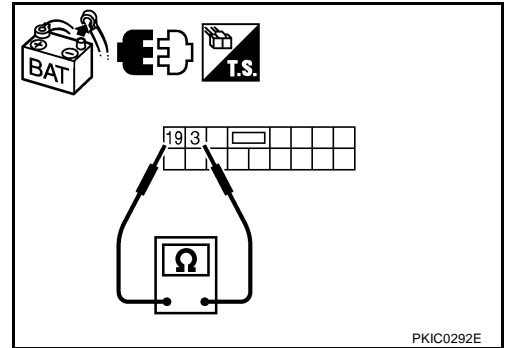
## 14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - Pre-crash seat belt control unit connector
  - Harness connector B15
  - Harness connector B3
2. Check continuity between harness connector terminals.

Harness connector	Terminal		Continuity
B15	3	19	No

**OK or NG**

- OK >> GO TO 15.
- NG >> Replace harness.



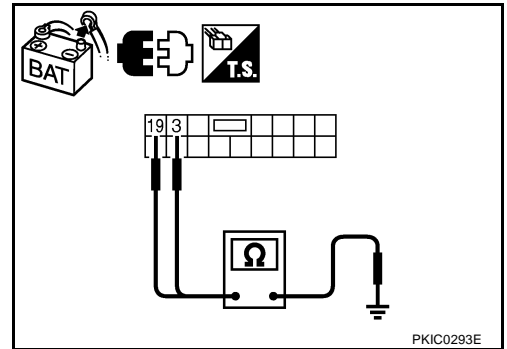
## 15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3	Ground	No
	19		No

**OK or NG**

- OK >> GO TO 16.
- NG >> Replace harness.



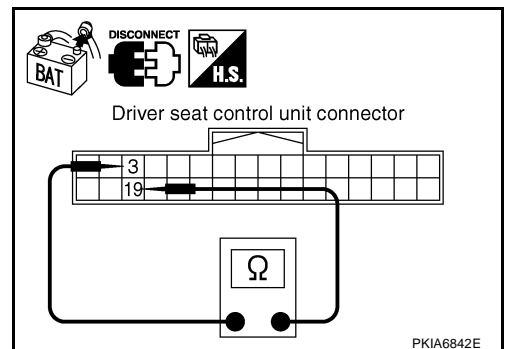
## 16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector terminals.

Driver seat control unit connector	Terminal		Continuity
B204	3	19	No

**OK or NG**

- OK >> GO TO 17.
- NG >> Repair harness between driver seat control unit and harness connector B202.



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

## 17. CHECK HARNESS FOR SHORT CIRCUIT

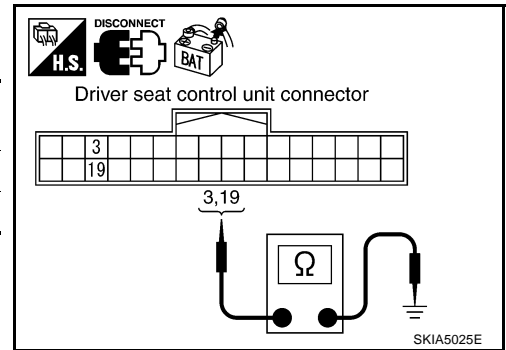
Check continuity between driver seat control unit harness connector terminals and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B204	3		
	19	No	

**OK or NG**

OK >> GO TO 18.

NG >> Repair harness between driver seat control unit and harness connector B202.



## 18. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
  - ABS actuator and electric unit (control unit) connector
  - ICC sensor integrated unit connector
  - IPDM E/R connector
2. Check continuity between IPDM E/R harness connector terminals.

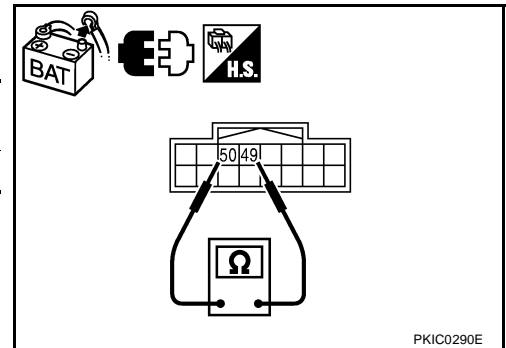
IPDM E/R connector	Terminal		Continuity
E9	49	50	No

**OK or NG**

OK >> GO TO 19.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)
- Harness between IPDM E/R and ICC sensor integrated unit



## 19. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector terminals and ground.

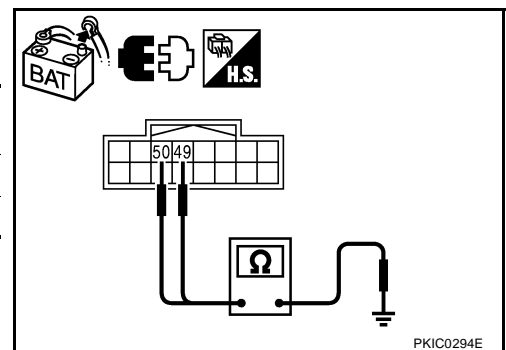
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		
	50	No	

**OK or NG**

OK >> GO TO 20.

NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between IPDM E/R and harness connector E105
- Harness between IPDM E/R and ABS actuator and electric unit (control unit)
- Harness between IPDM E/R and ICC sensor integrated unit





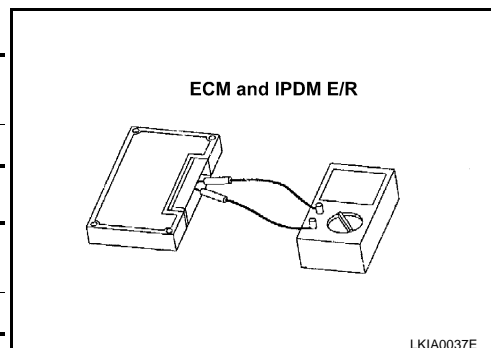
**20. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT**

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals.

Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
49	50	108 – 132 Ω

**OK or NG**

- OK >> GO TO 21.  
 NG >> Replace ECM and/or IPDM E/R.

**21. CHECK SYMPTOM**

1. Fill in described symptoms on the column "Symptom" in the check sheet.
2. Connect all connectors, and then make sure that the symptom is reproduced.

**OK or NG**

- OK >> GO TO 22.  
 NG >> Refer to [LAN-18, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

## 22. CHECK UNIT REPRODUCIBILITY

Performs the following procedure for each unit, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.
  - A/T assembly
  - AWD control unit
  - AFS control unit
  - BCM
  - LDW camera unit
  - Low tire pressure warning control unit
  - Steering angle sensor
  - Intelligent Key unit
  - Unified meter and A/C amp.
  - NAVI control unit
  - Pre-crash seat belt control unit
  - Driver seat control unit
  - ABS actuator and electric unit (control unit)
  - ICC sensor integrated unit
  - ECM
  - IPDM E/R

### Check results

Reproduce>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

### **IPDM E/R Ignition Relay Circuit Inspection**

NKS00484

Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-30, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" .](#)