SECTION LAN

LAN SYSTEM

CONTENTS

CAN

PRECAUTIONS

PFP:00001

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

NKS003XO

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

NKS003XQ

CAN SYSTEM

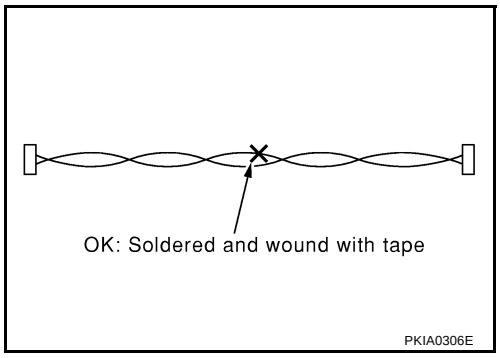
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precautions For Harness Repair

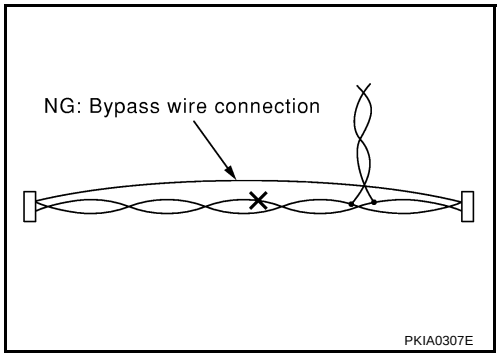
NKS003XR

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

PFP:00004

When Displaying CAN Communication System Errors

NKS003XS

WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

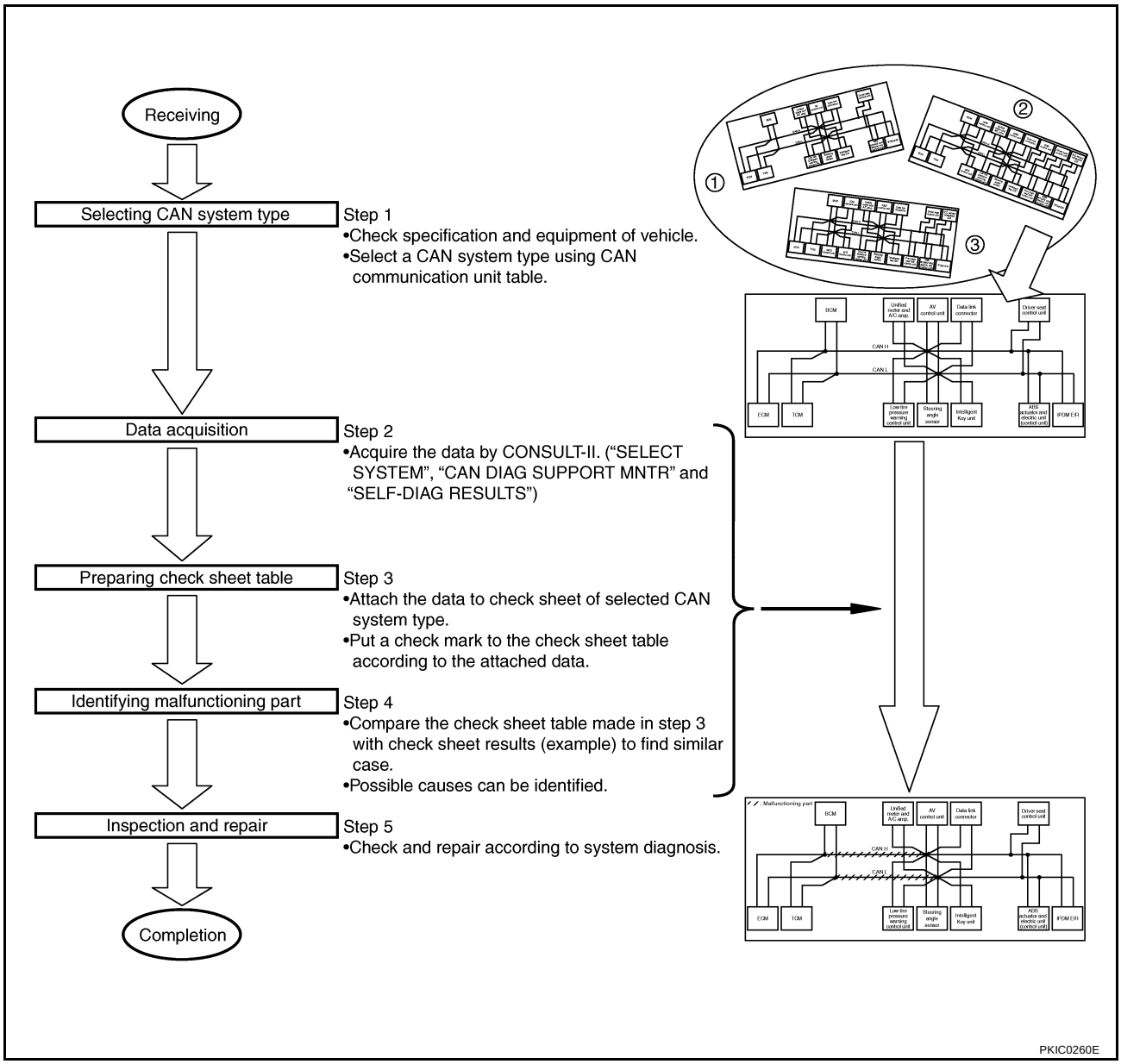
- CAN communication line is open. (CAN H, CAN L, or both)
- CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)
- The areas related to CAN communication of unit is malfunctioning.

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.

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.

Diagnosis Procedure

NKS003XT

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		×		×	×		×		×	×		×		×	×
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															

× : Applicable

Check basic specifications of the vehicle.

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

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

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

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

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

Select " × " 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.

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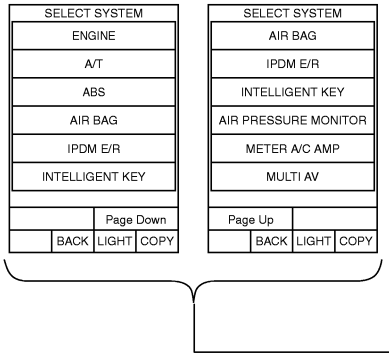
ACQUISITION OF DATA BY CONSULT-II

Attach the data acquired by CONSULT-II on the check sheet determined according to CAN system type.

Copy “SELECT SYSTEM” screen of CONSULT-II.



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

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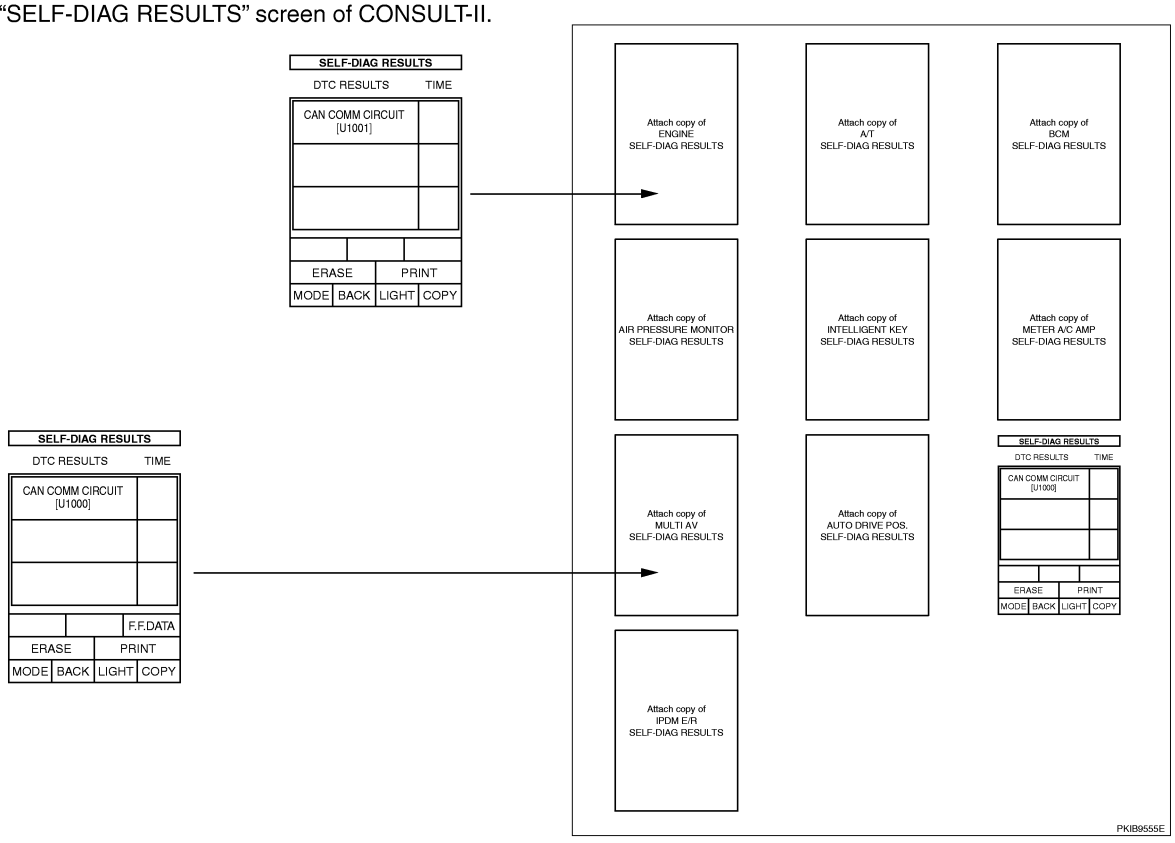
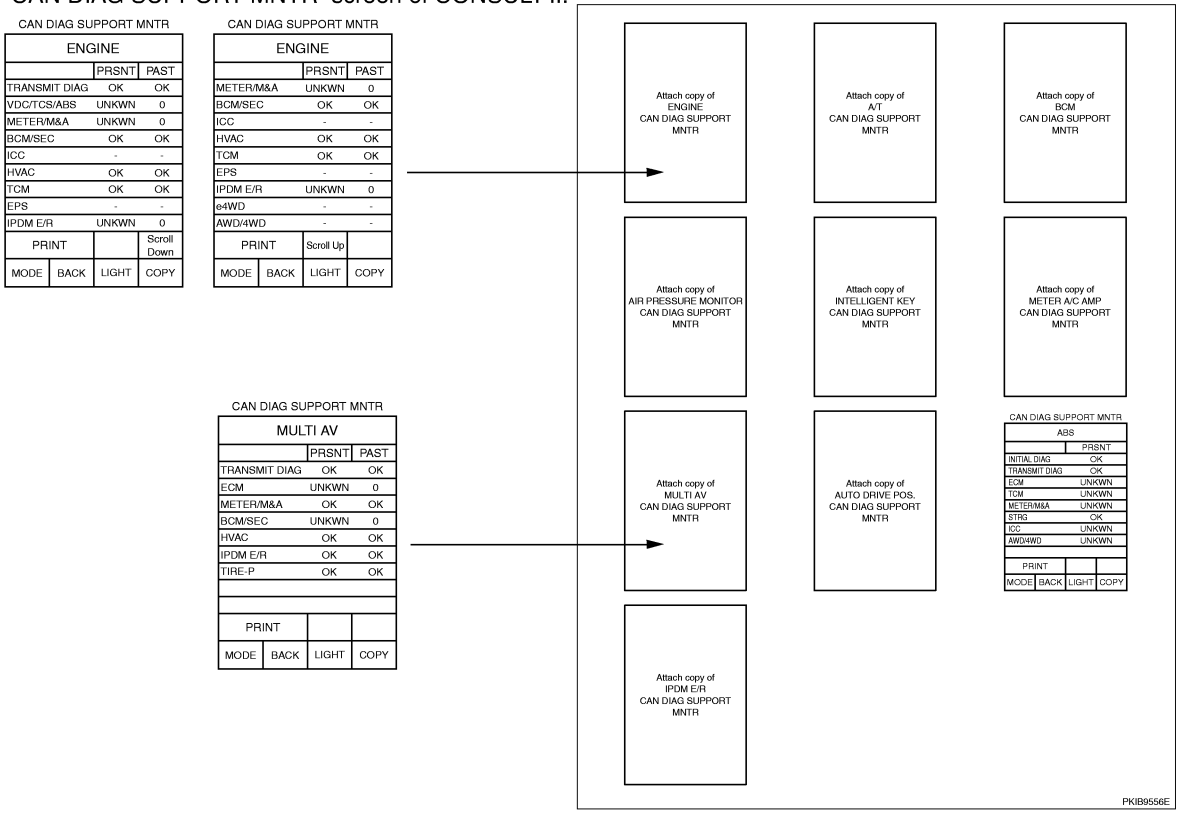
Copy “SELF-DIAG RESULTS” screen of CONSULT-II.



Copy “CAN DIAG SUPPORT MNTR” screen of CONSULT-II.



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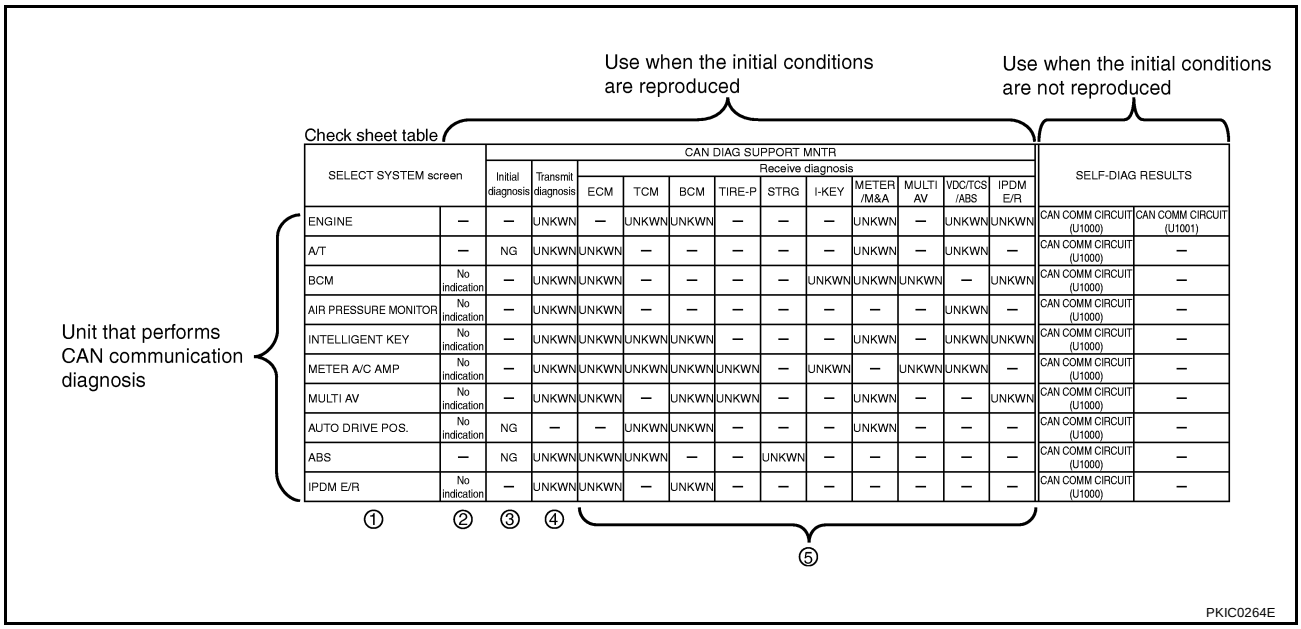
HOW TO USE CHECK SHEET TABLE



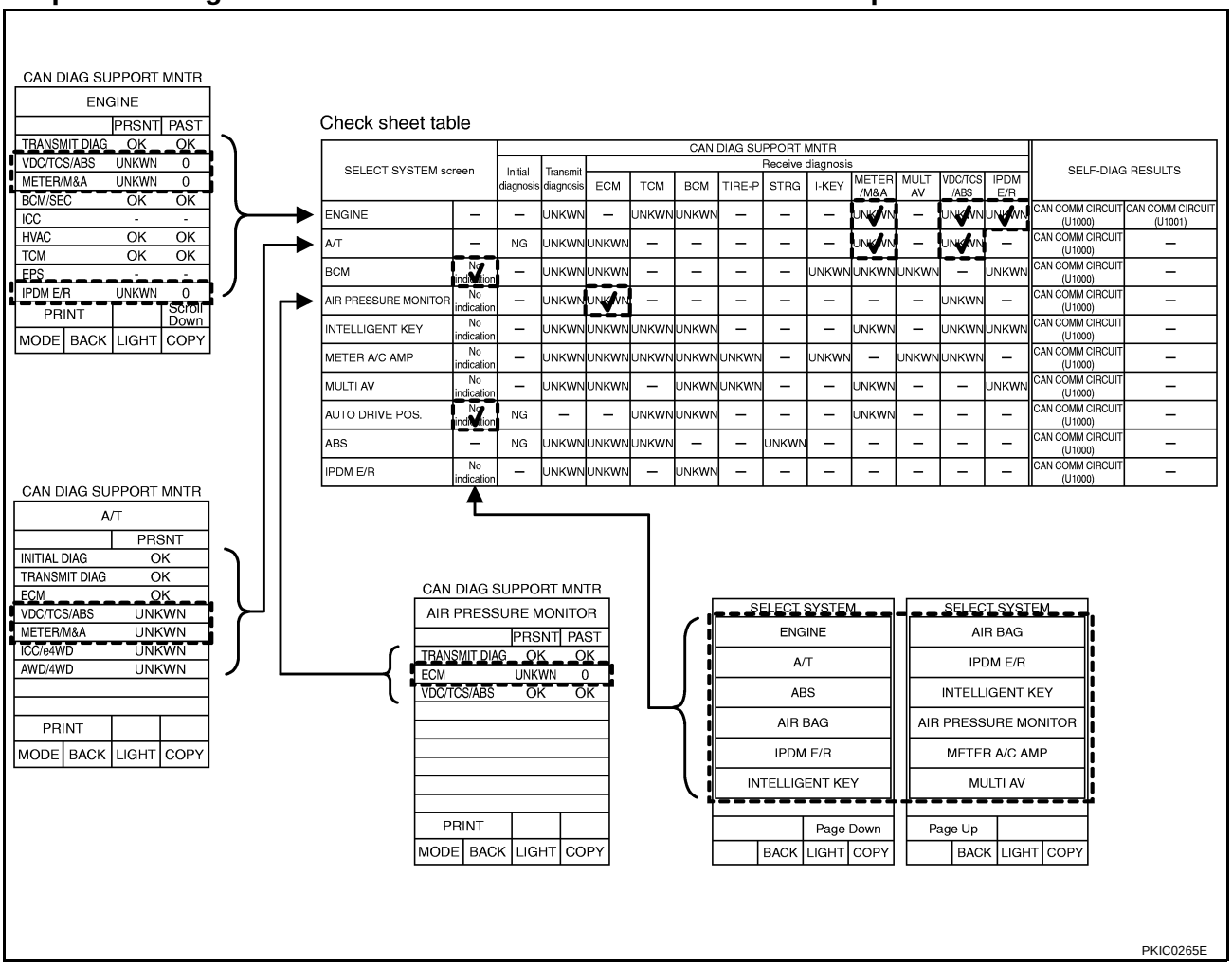
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	–	–	–	UNKWN	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	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)	–

1. Unit names displayed on CONSULT-II
2. “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)
3. “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.)
4. “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.)
5. “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" .

Example of Filling in Check Sheet When Initial Conditions Are Reproduced



1. 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.

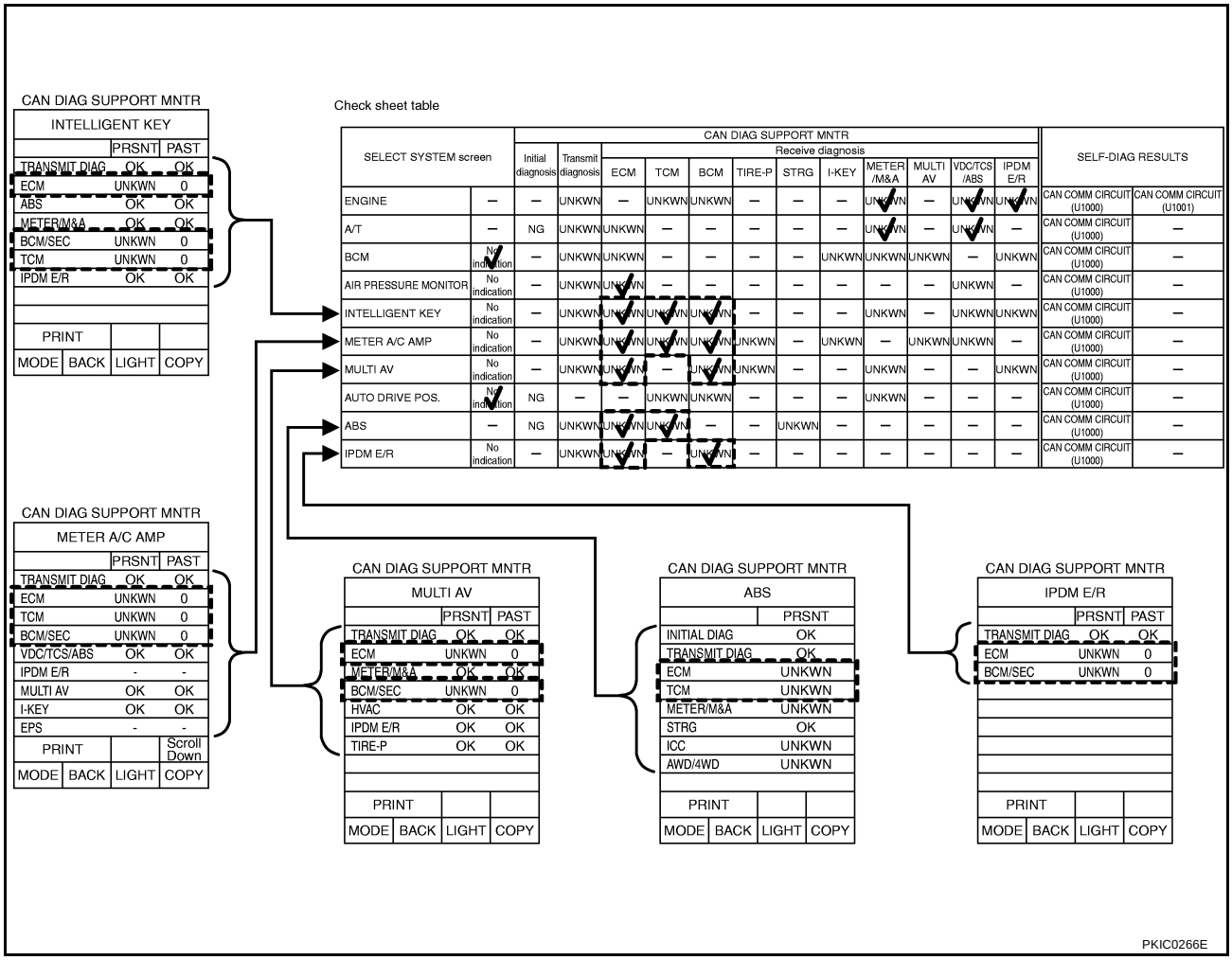
   NOTE:
   Put a check mark to “No indication” of BCM and AUTO DRIVE POS. because BCM and AUTO DRIVE POS. is not displayed on “SELECT SYSTEM” screen.

2. 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.

3. 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.



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.

The arranged results of CAN diagnosis support monitor

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	–

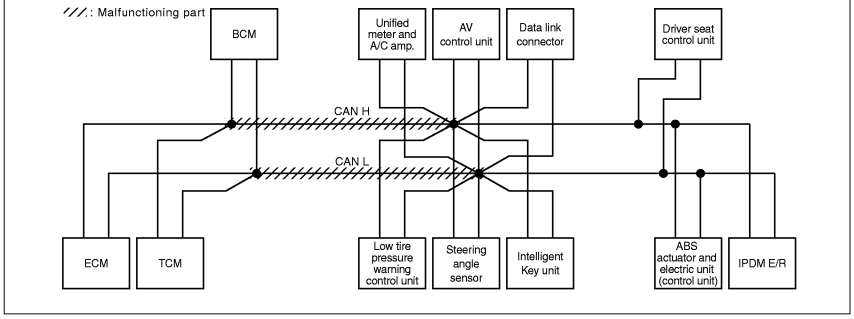
Choose similar indications between the results of CAN diagnosis support monitor and the results of the check sheet. Malfunctioning parts are found.

Case 1

Check harness between TCM and data link connector.

Check sheet results (example)

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	–



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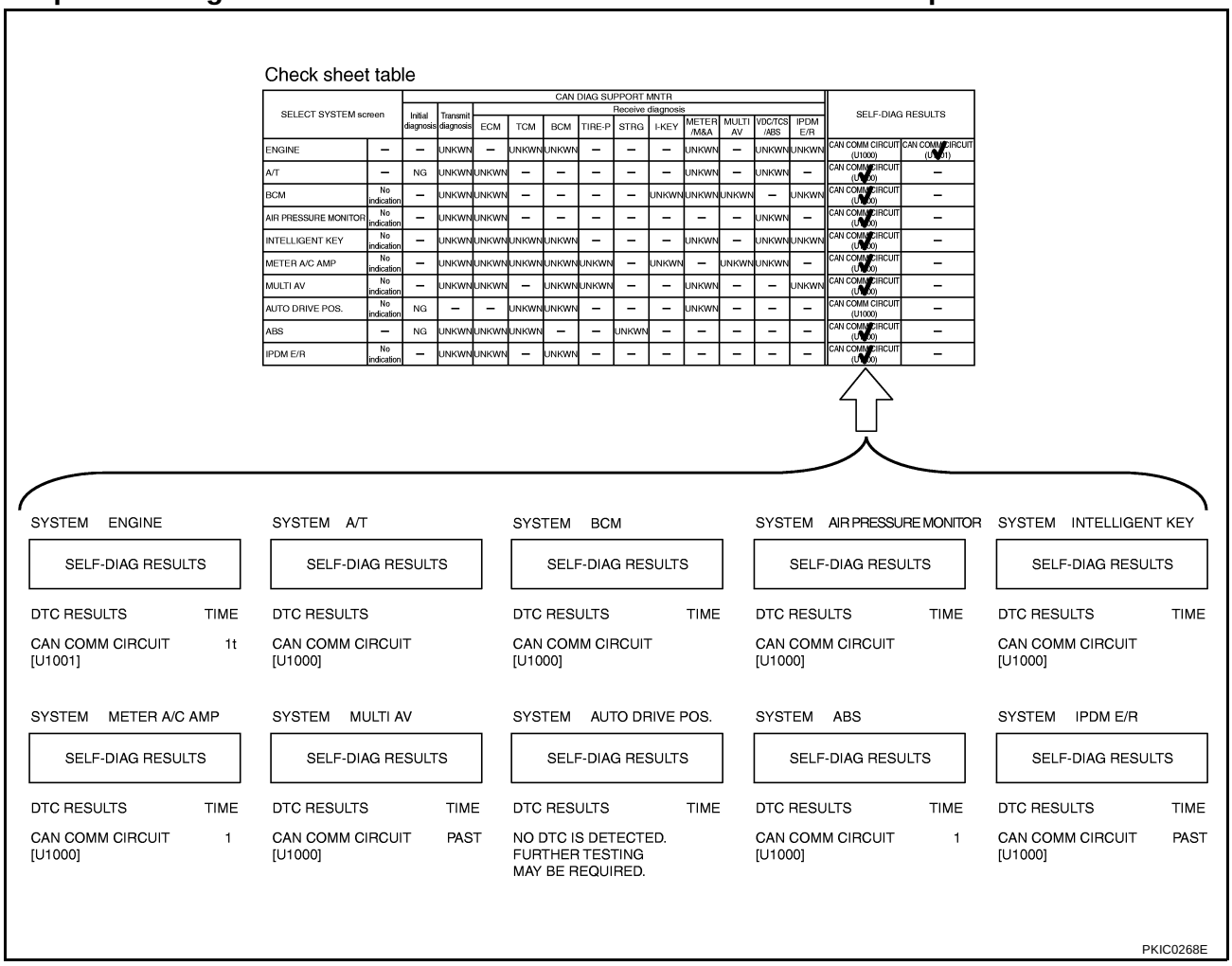
NOTE:

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.

5. Perform system diagnosis for possible causes identified.
6. 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" .

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



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)	–

SYSTEM ENGINE

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1001]	1t

SYSTEM A/T

SELF-DIAG RESULTS

DTC RESULTS
CAN COMM CIRCUIT [U1000]

SYSTEM BCM

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	

SYSTEM AIR PRESSURE MONITOR

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	

SYSTEM INTELLIGENT KEY

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	

SYSTEM METER A/C AMP

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	1

SYSTEM MULTI AV

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	PAST

SYSTEM AUTO DRIVE POS.

SELF-DIAG RESULTS

DTC RESULTS	TIME
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	

SYSTEM ABS

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	1

SYSTEM IPDM E/R

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	PAST

PKIC0268E

1. 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.

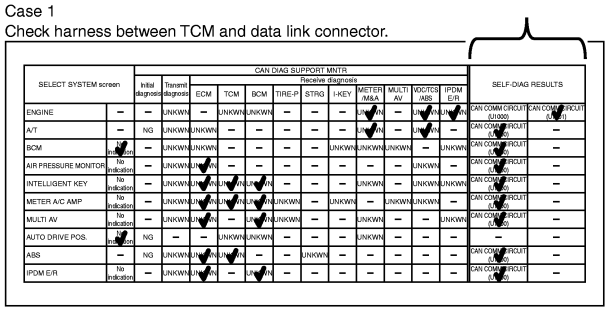
The arranged results of self-diagnosis

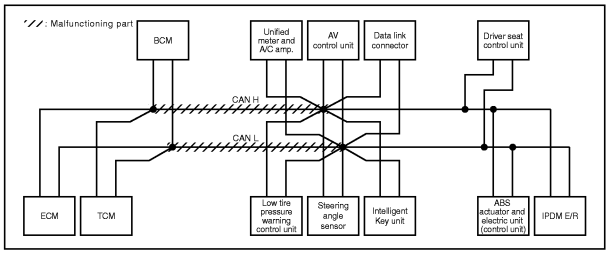
Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	–	–	–	UNKWN	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1010)
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	CAN COMM CIRCUIT (U1000)	–
METER A/C AMP	No indication	–	UNKWN	UNKWN	–	–	–	UNKWN	–	UNKWN	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
MULTI AV	No indication	–	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)	–

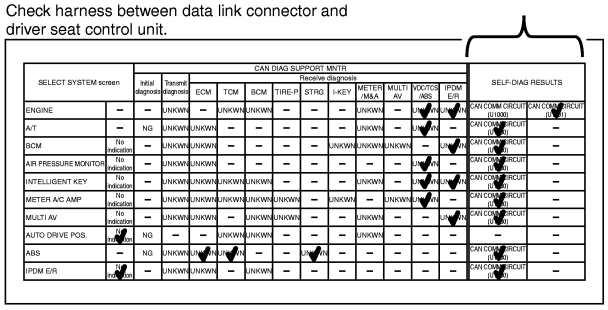
When the arranged results of self-diagnosis and check sheet results (example) are corresponding, possible causes can be selected.

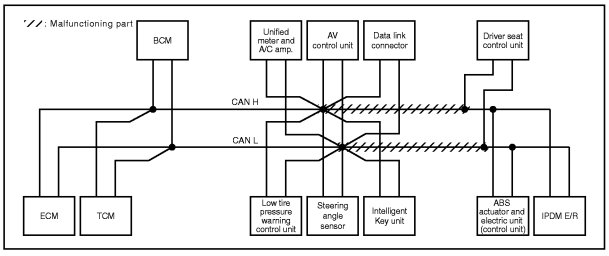
Case 1
Check harness between TCM and data link connector.





Case 2
Check harness between data link connector and driver seat control unit.





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.

CAN Diagnostic Support Monitor

NKS003XU

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR ECM

(Example)

CAN DIAG SUPPORT MNTR

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

CAN DIAG SUPPORT MNTR

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	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

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TCM

(Example)

CAN DIAG SUPPORT MNTR

A/T	
	PRSNT
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	
	PRSNT
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.

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

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR BCM

(Example)

CAN DIAG SUPPORT MNTR

BCM		
	PRSNT	PAST
TRANSMIT DIAG	OK	OK
ECM	OK	OK
METER/M&A	OK	OK
TCM	-	-
MULTI AV	OK	OK
IPDM E/R	OK	OK
I-KEY	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

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

"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

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

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT 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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR INTELLIGENT KEY UNIT

(Example)

CAN DIAG SUPPORT MNTR

INTELLIGENT KEY		
	PRSNT	PAST
TRANSMIT DIAG	OK	OK
ECM	OK	OK
ABS	OK	OK
METER/M&A	OK	OK
BCM/SEC	OK	OK
TCM	OK	OK
IPDM E/R	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

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

(Example)

CAN DIAG SUPPORT MNTR

METER A/C AMP	PRSNT	PAST
TRANSMIT DIAG	OK	OK
ECM	OK	OK
TCM	OK	OK
BCM/SEC	OK	OK
VDC/TCS/ABS	OK	OK
IPDM E/R	-	-
MULTI AV	OK	OK
I-KEY	OK	OK
EPS	-	-
PRINT		Scroll Down
MODE	BACK	LIGHT	COPY

CAN DIAG SUPPORT MNTR

METER A/C AMP	PRSNT	PAST
MULTI AV	OK	OK
I-KEY	OK	OK
EPS	-	-
AWD/4WD	OK	OK
e4WD	-	-
ICC	OK	OK
LANE KEEP	-	-
TIRE-P	OK	OK
AFS	OK	OK
PRINT	Scroll Up	
MODE	BACK	LIGHT	COPY

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

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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR RAS CONTROL UNIT

(Example)

CAN DIAG SUPPORT MNTR

RAS/HICAS		
	PRSNT	PAST
TRANSMIT DIAG	OK	OK
ECM	OK	OK
VDC/TCS/ABS	OK	OK
STRG	OK	OK
PRINT		
MODE / BACK	LIGHT	COPY

PKIB9803E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past
RAS/HICAS	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/–	
	STRG	Make sure of normal reception from steering angle sensor.	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

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

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.

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

(Example)

CAN DIAG SUPPORT MNTR

ICC		
	PRSNT	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

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

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

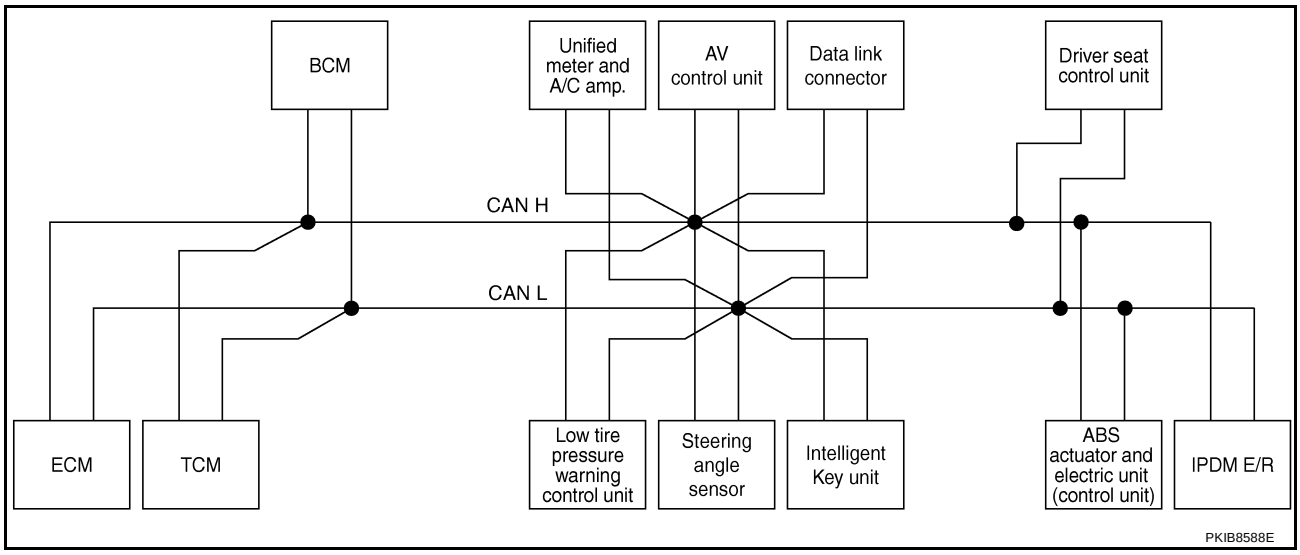
Go to CAN system, when selecting your CAN system type from the following table.

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	LAN-48	LAN-89	LAN-130	LAN-177	LAN-224	LAN-275	LAN-321	LAN-367	LAN-417	LAN-467	LAN-521	LAN-564	LAN-607	LAN-656	LAN-705

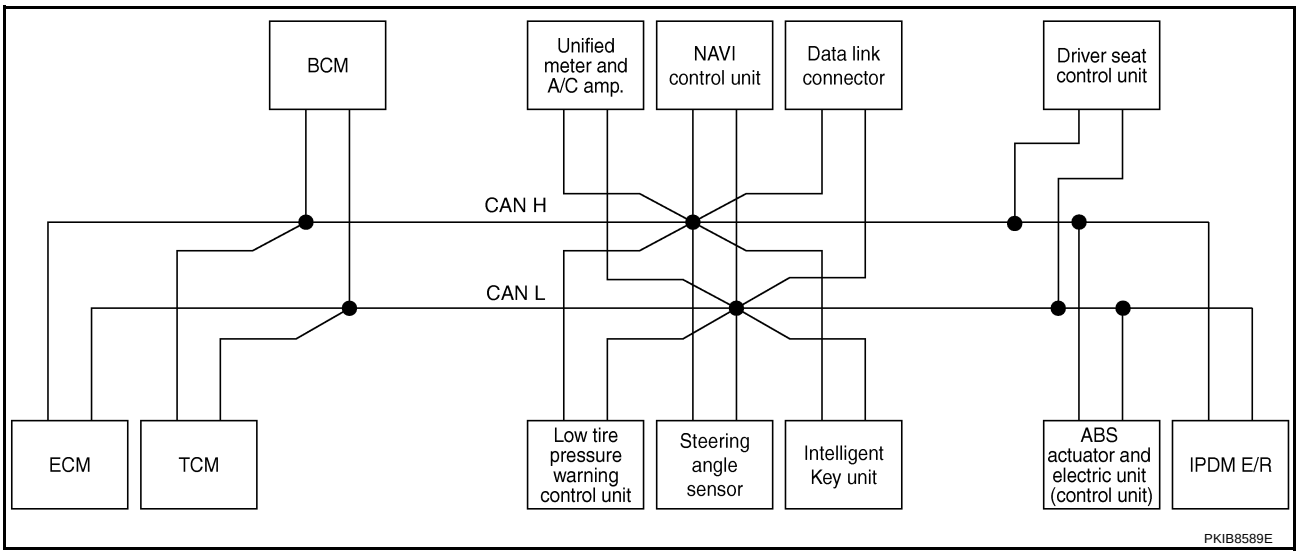
×: Applicable

SYSTEM DIAGRAM

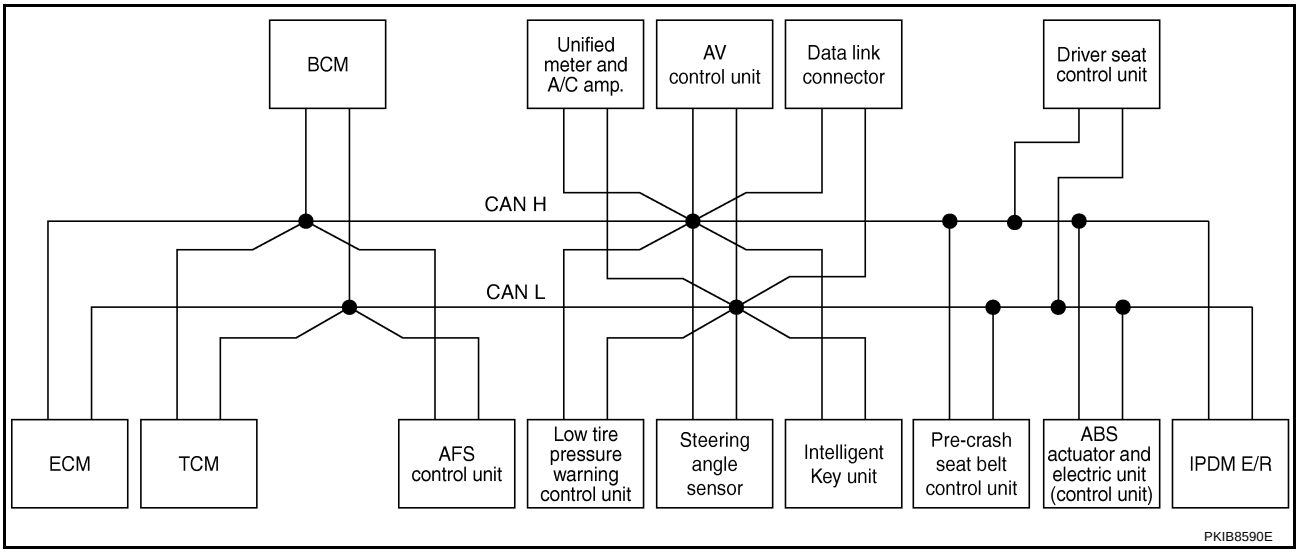
- Type 1



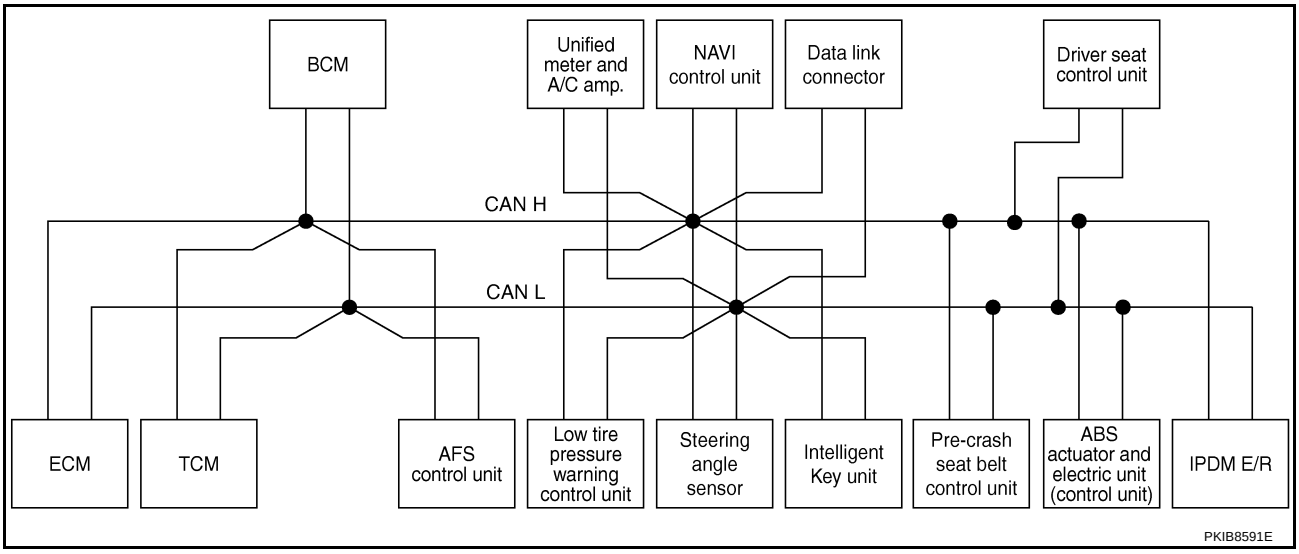
- Type 2



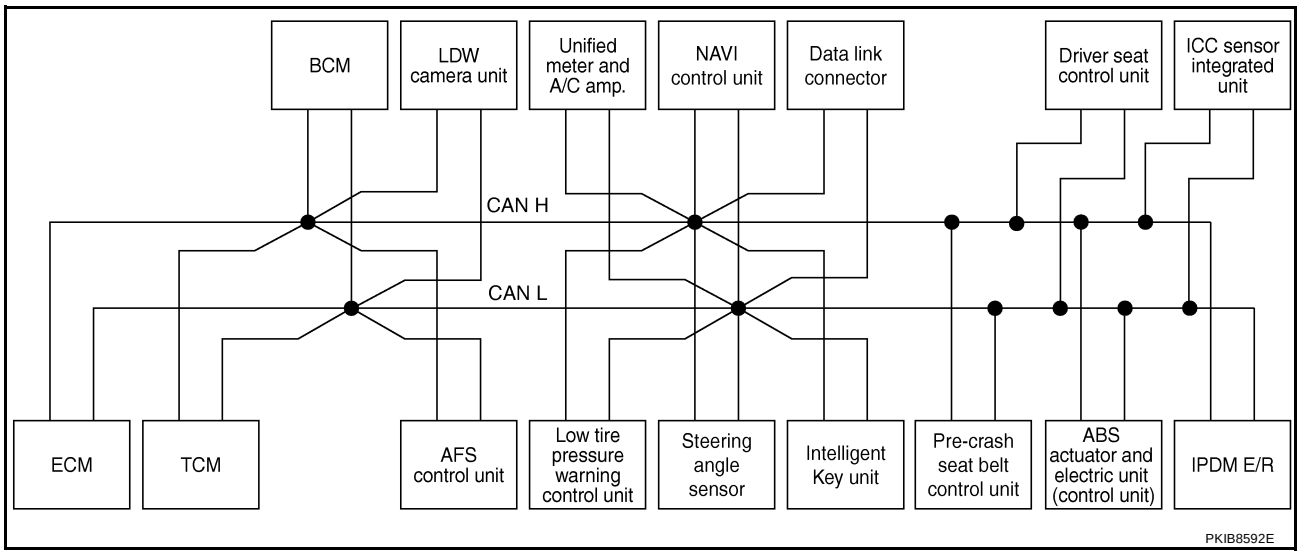
- Type 3



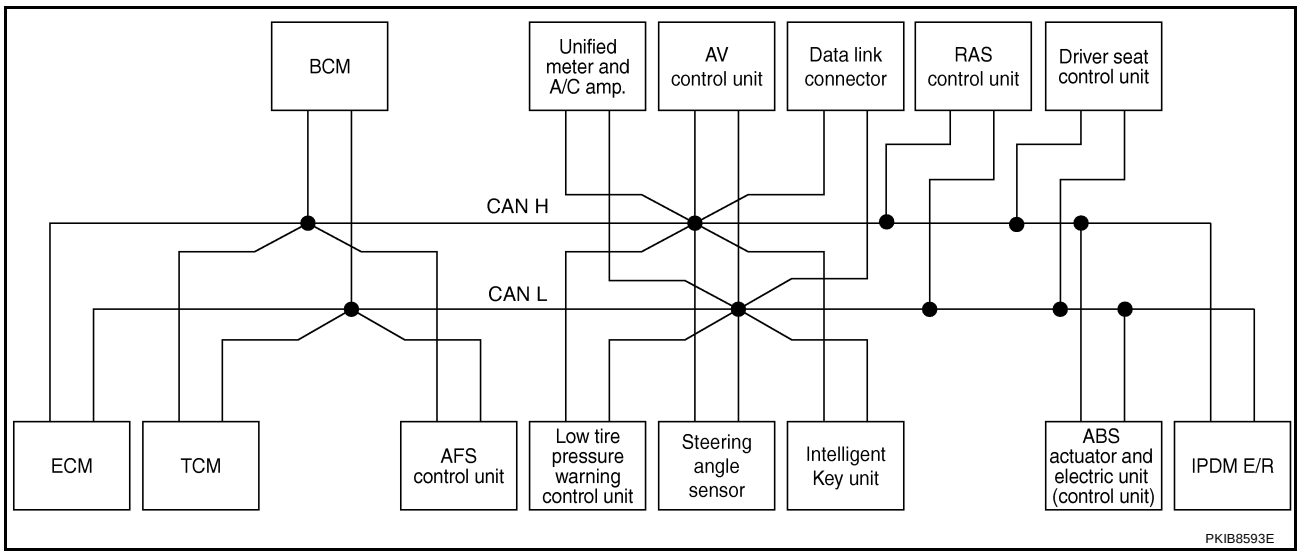
- Type 4



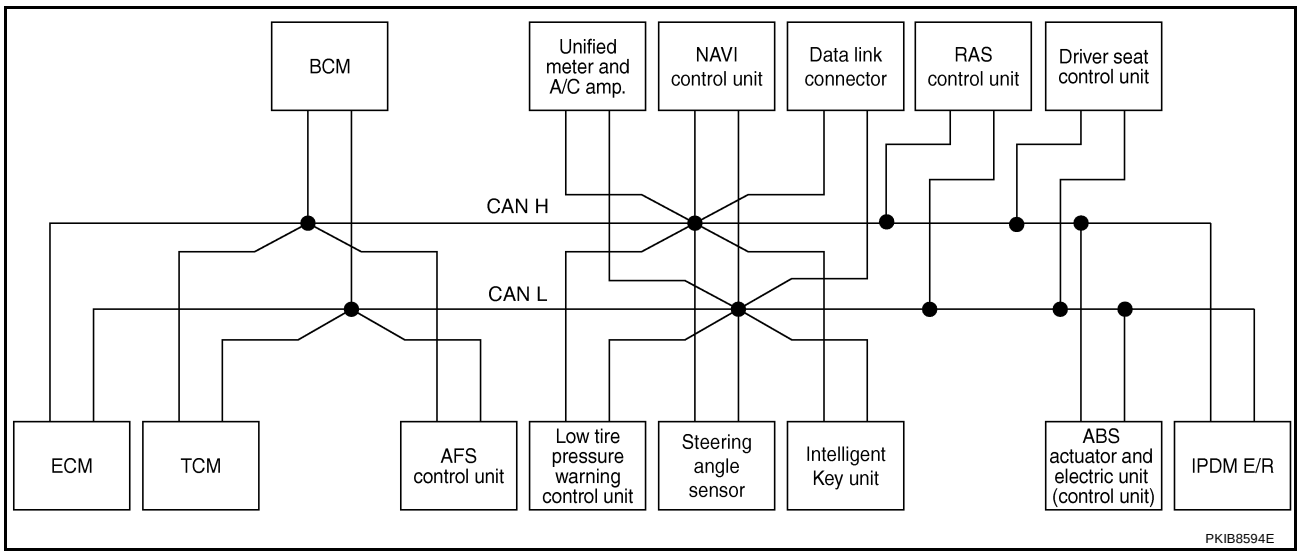
- Type 5



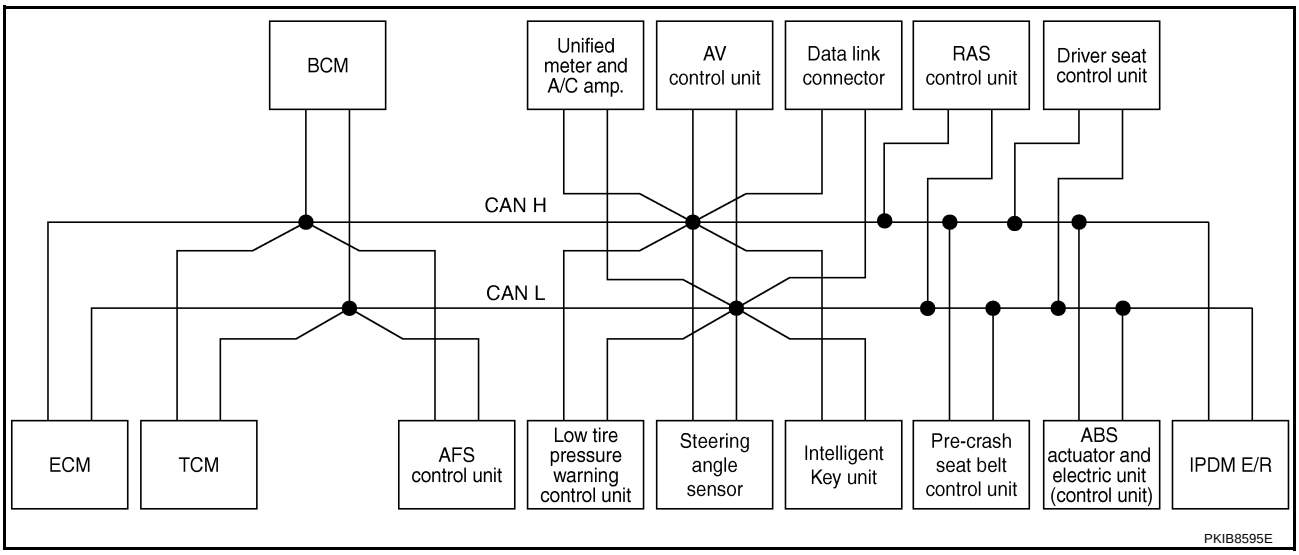
- Type 6



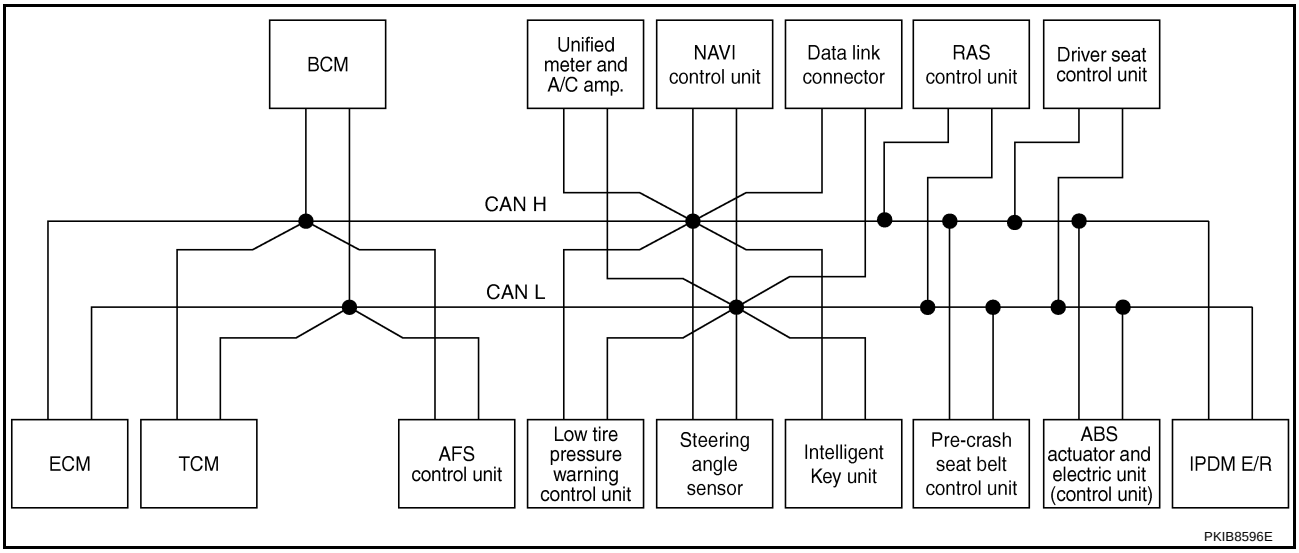
- Type 7



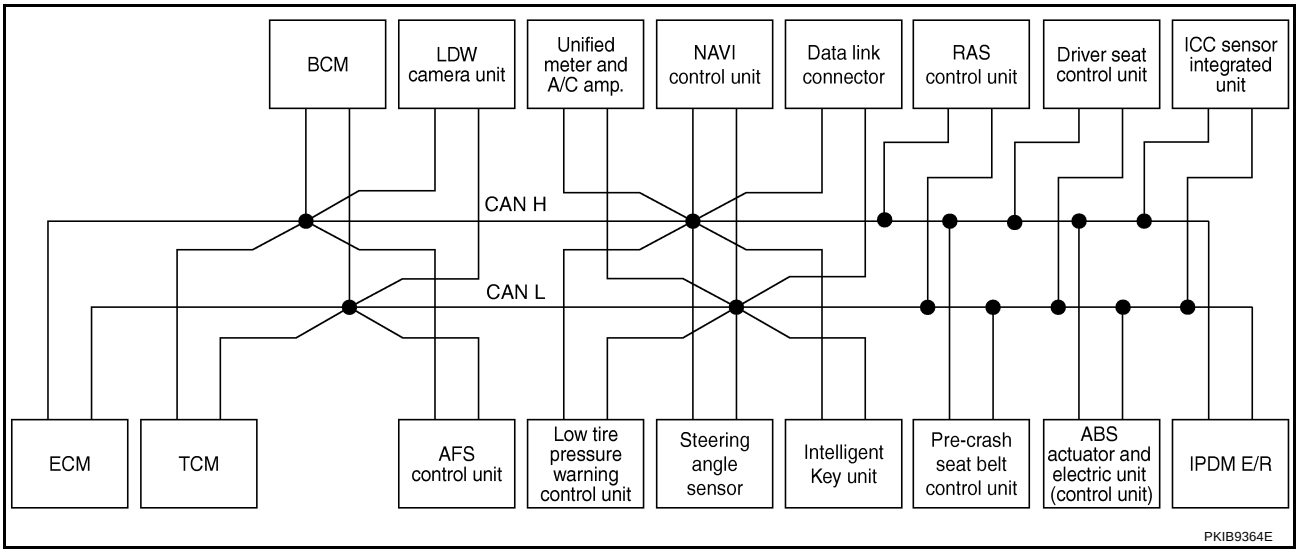
- Type 8



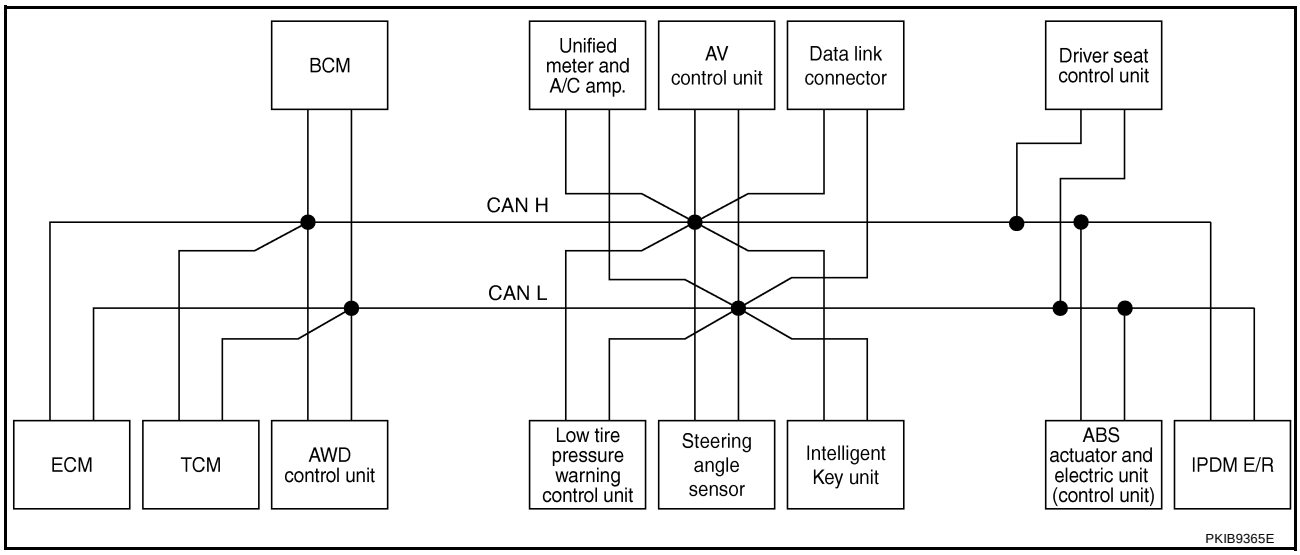
- Type 9



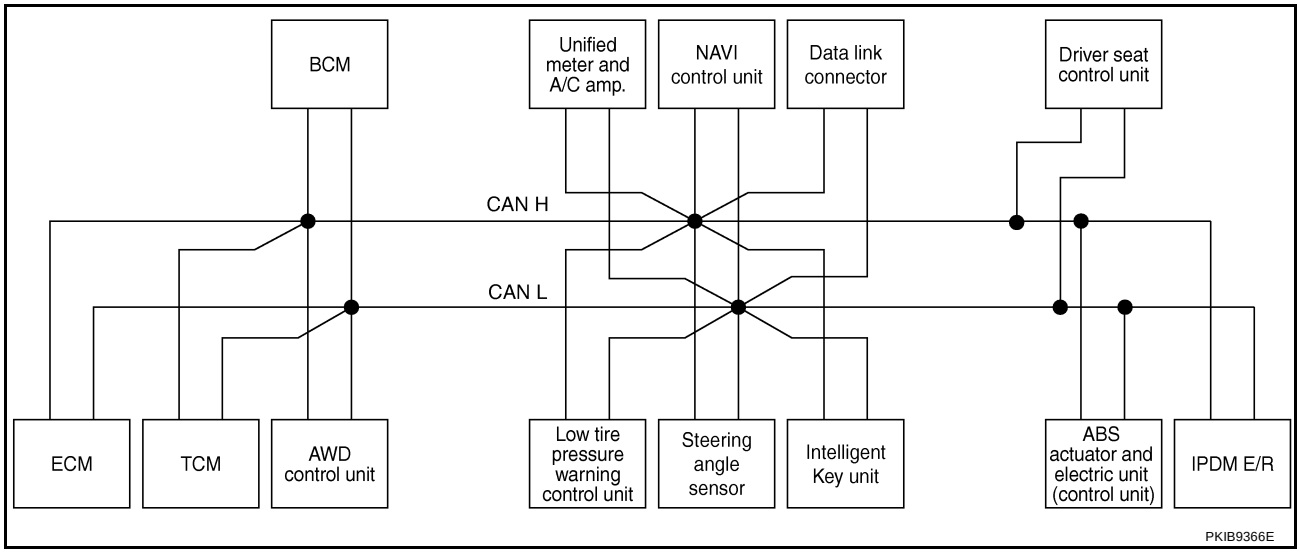
- Type 10



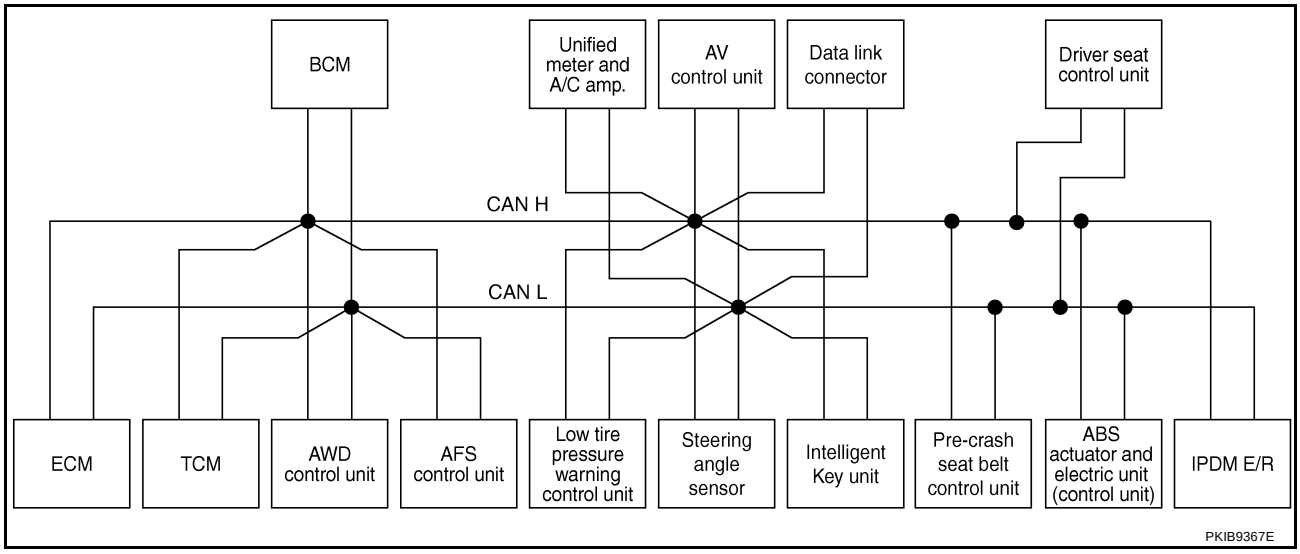
- Type 11



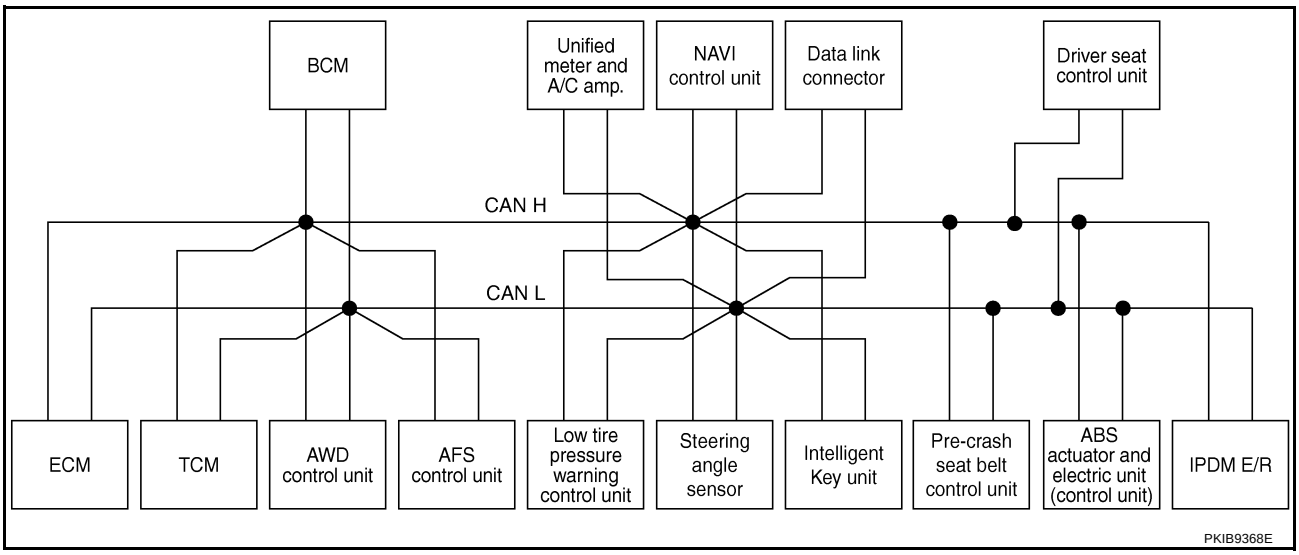
- Type 12



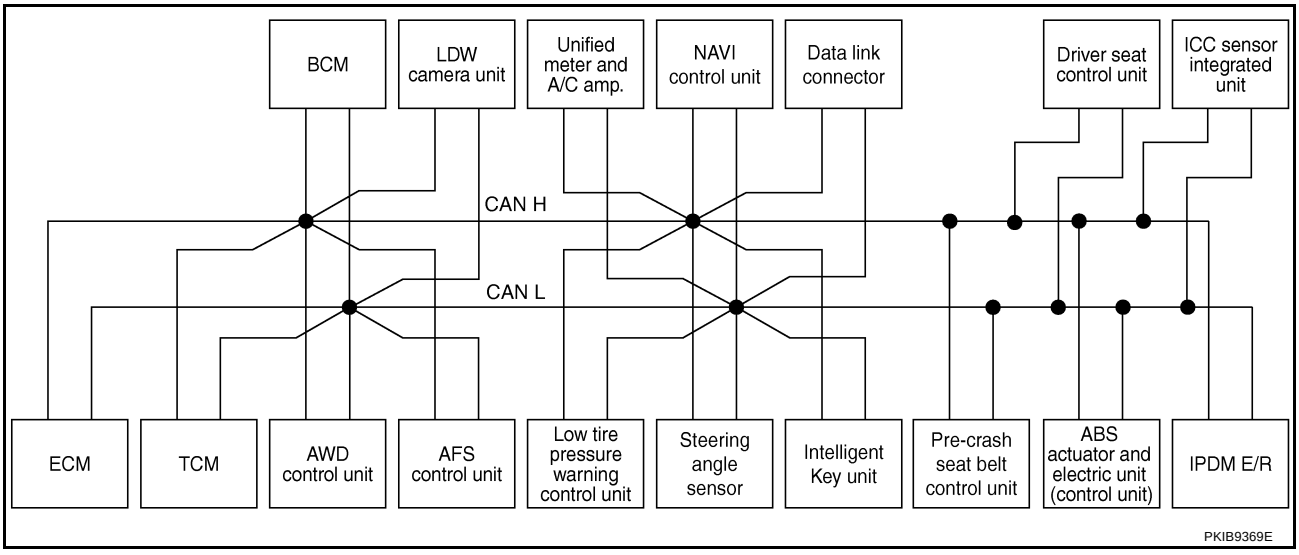
- Type 13



- Type 14



- Type 15



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			

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					R							
								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							

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	
														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			
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	

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

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											

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						
										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							

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	

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

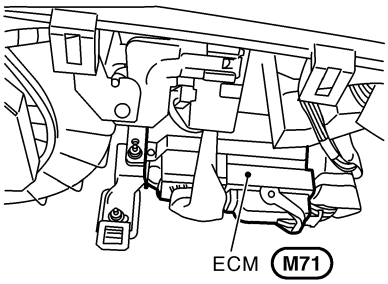
CAN SYSTEM (TYPE 1)

PFP:23710

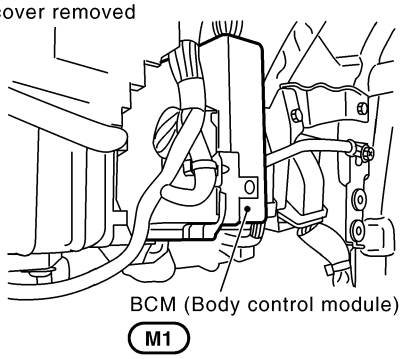
Component Parts and Harness Connector Location

NKS003XX

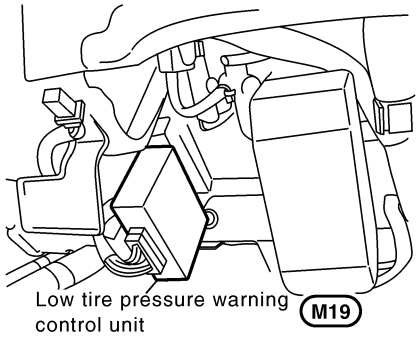
Passenger side view with instrument lower cover removed



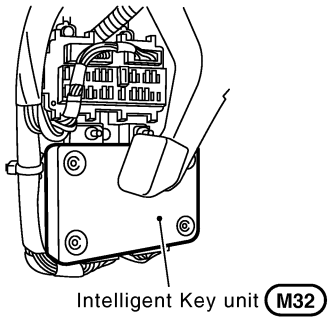
Passenger side view with instrument lower cover removed



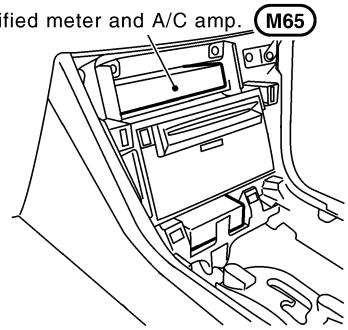
Driver side view with instrument lower panel removed



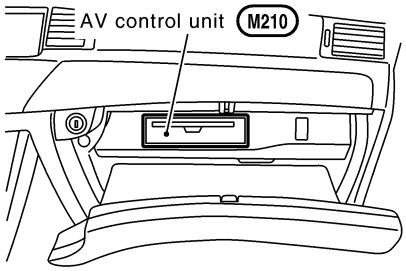
Behind dash side lower LH finisher



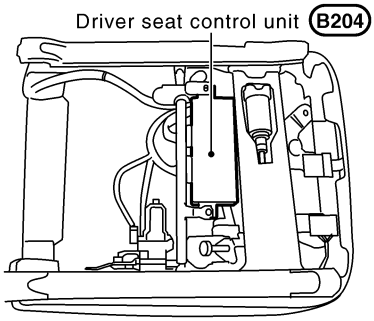
View with cluster lid C removed



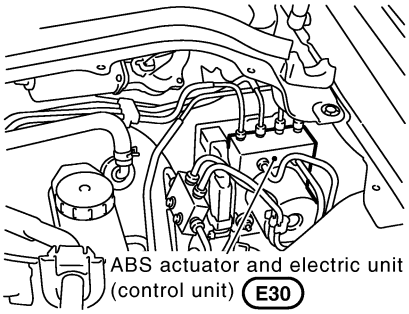
Inside of glove box



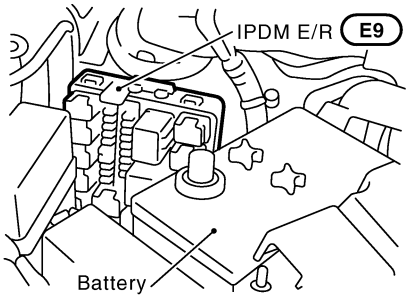
Under driver's seat



Rear left of engine room



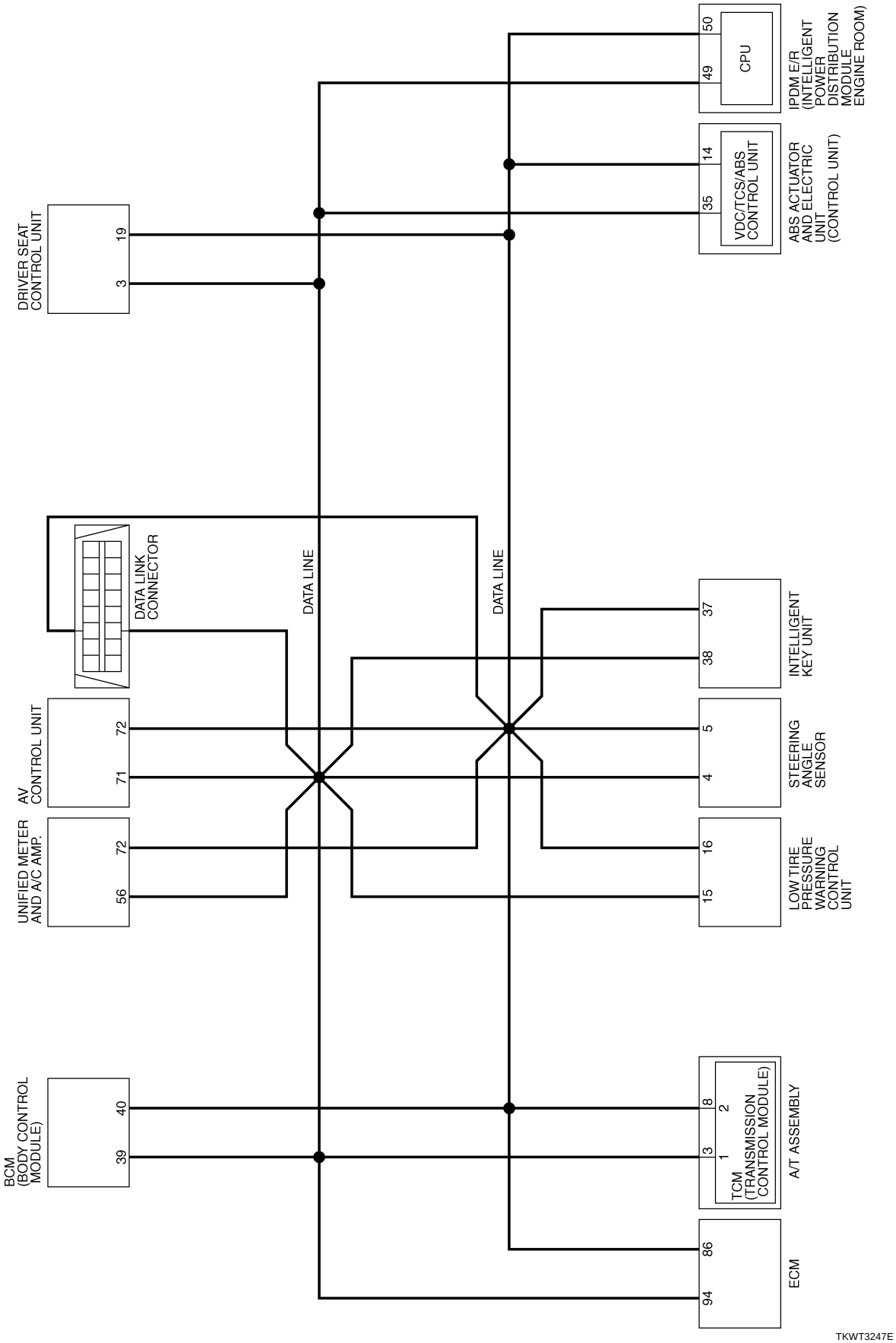
View with cowl top cover removed



PKIC0599E

Schematic

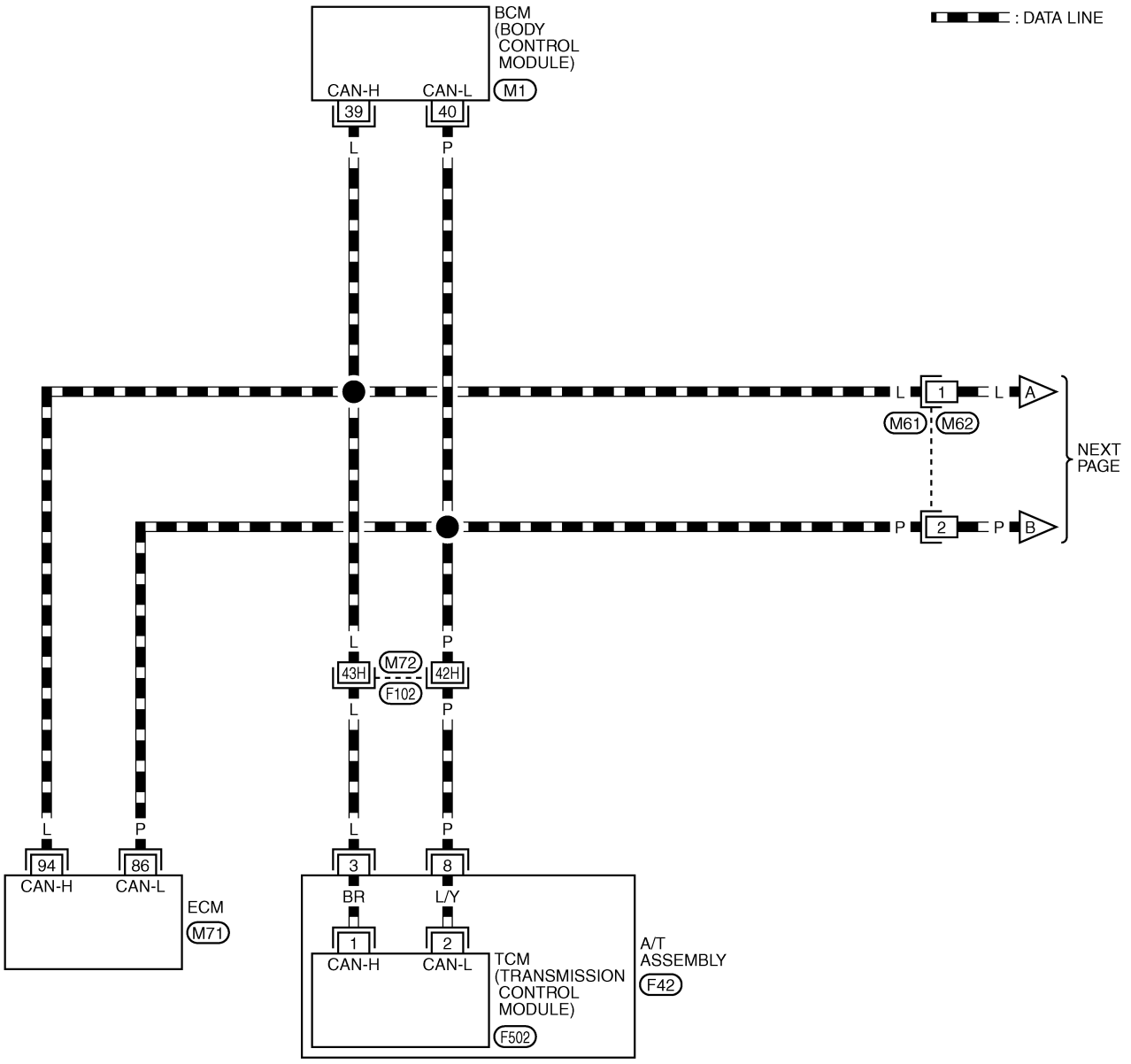
NKS003XY

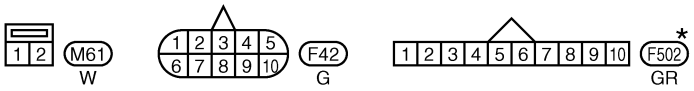


Wiring Diagram — CAN —

NKS003XZ

LAN-CAN-01





REFER TO THE FOLLOWING.

F102 -SUPER MULTIPLE JUNCTION (SMJ)

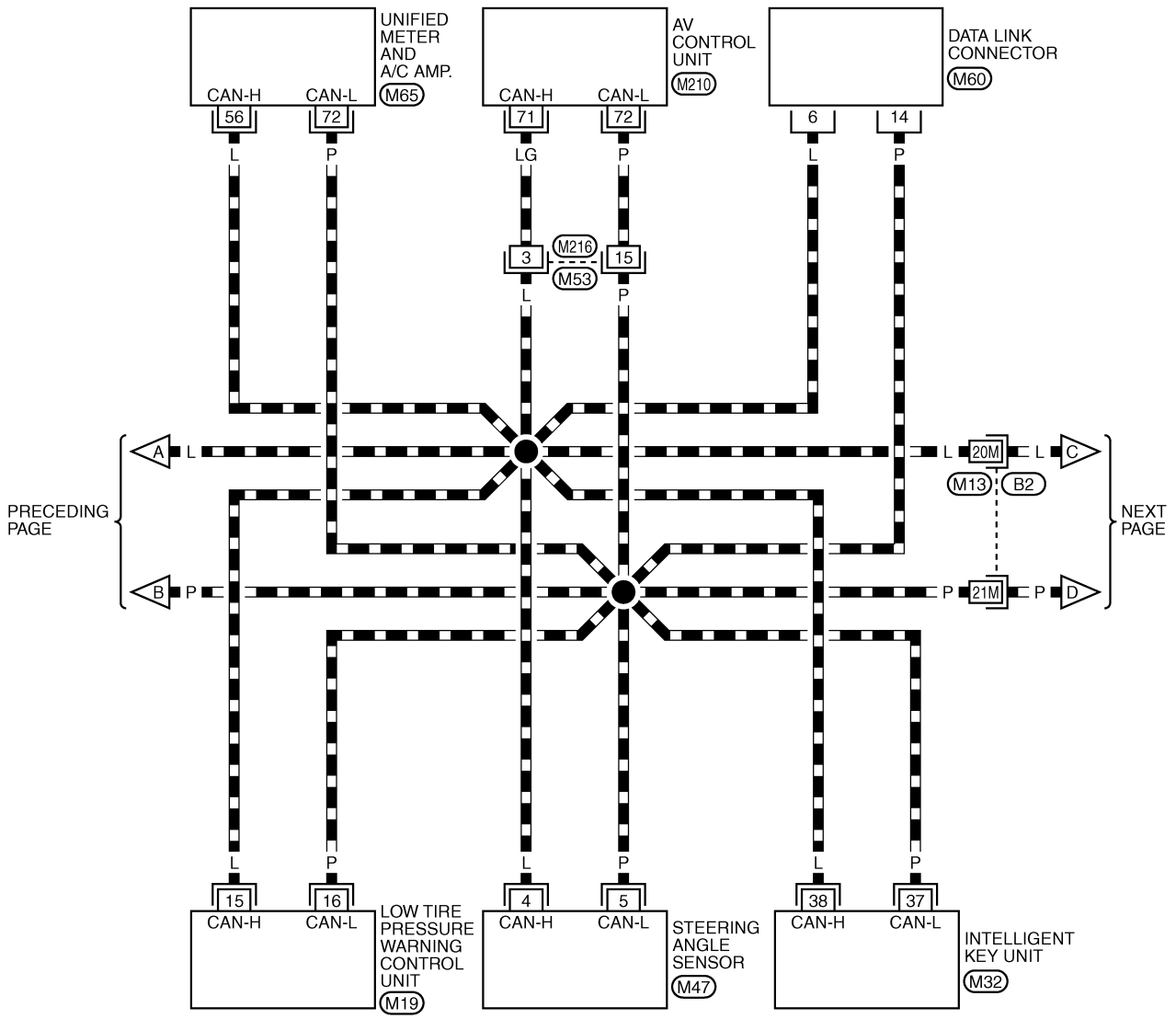
M1 , M71 -ELECTRICAL UNITS

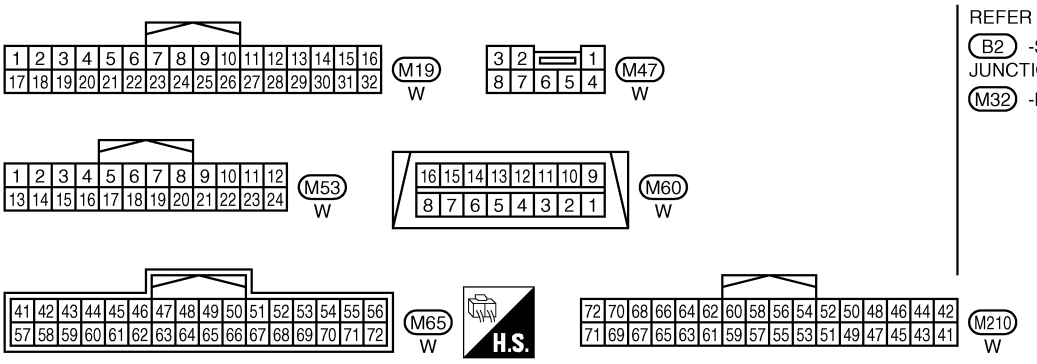
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3248E

LAN-CAN-02

: DATA LINE





REFER TO THE FOLLOWING.

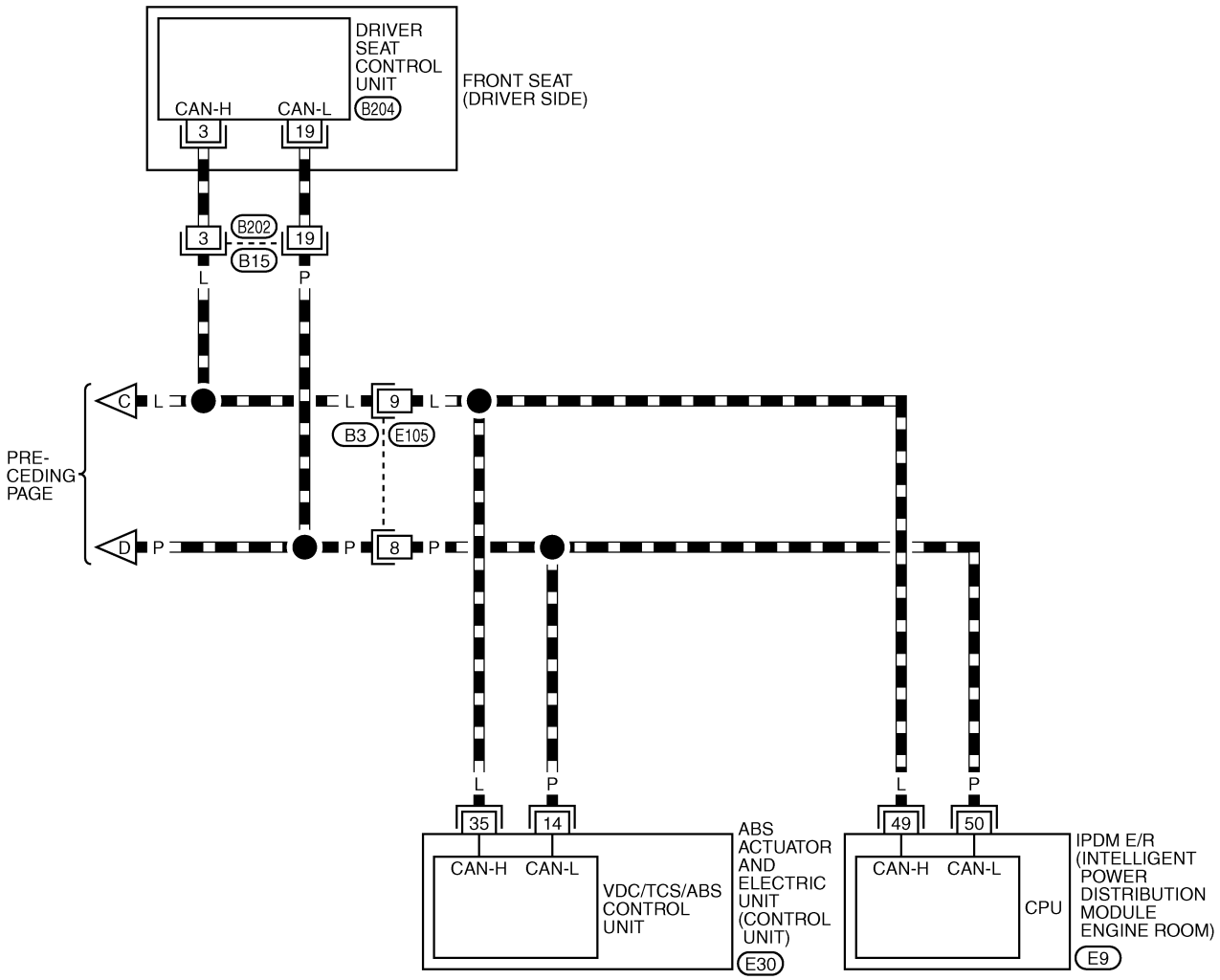
B2 -SUPER MULTIPLE JUNCTION (SMJ)

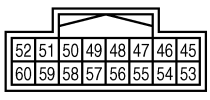
M32 -ELECTRICAL UNITS

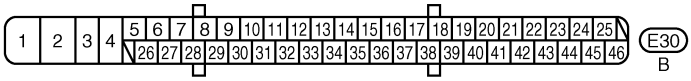
TKWT3249E

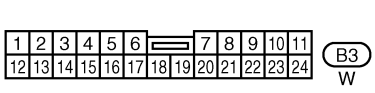
LAN-CAN-03

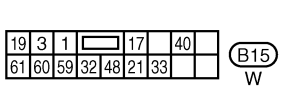
: DATA LINE

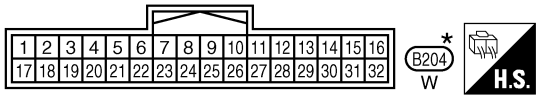












*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3250E

Check Sheet

NKS003Y0

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

Check sheet table

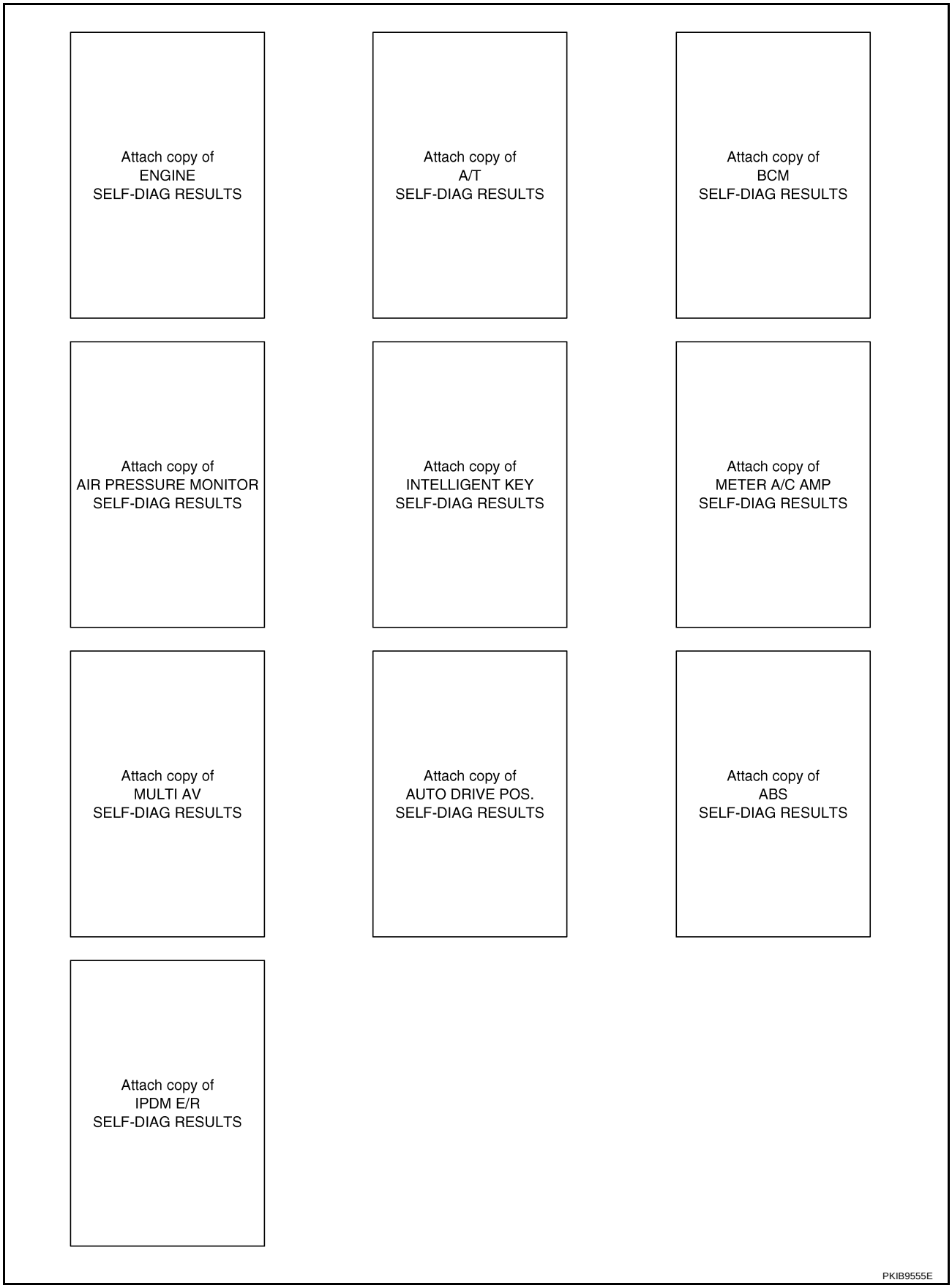
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	TCM	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	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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A/T
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AIR PRESSURE MONITOR
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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.
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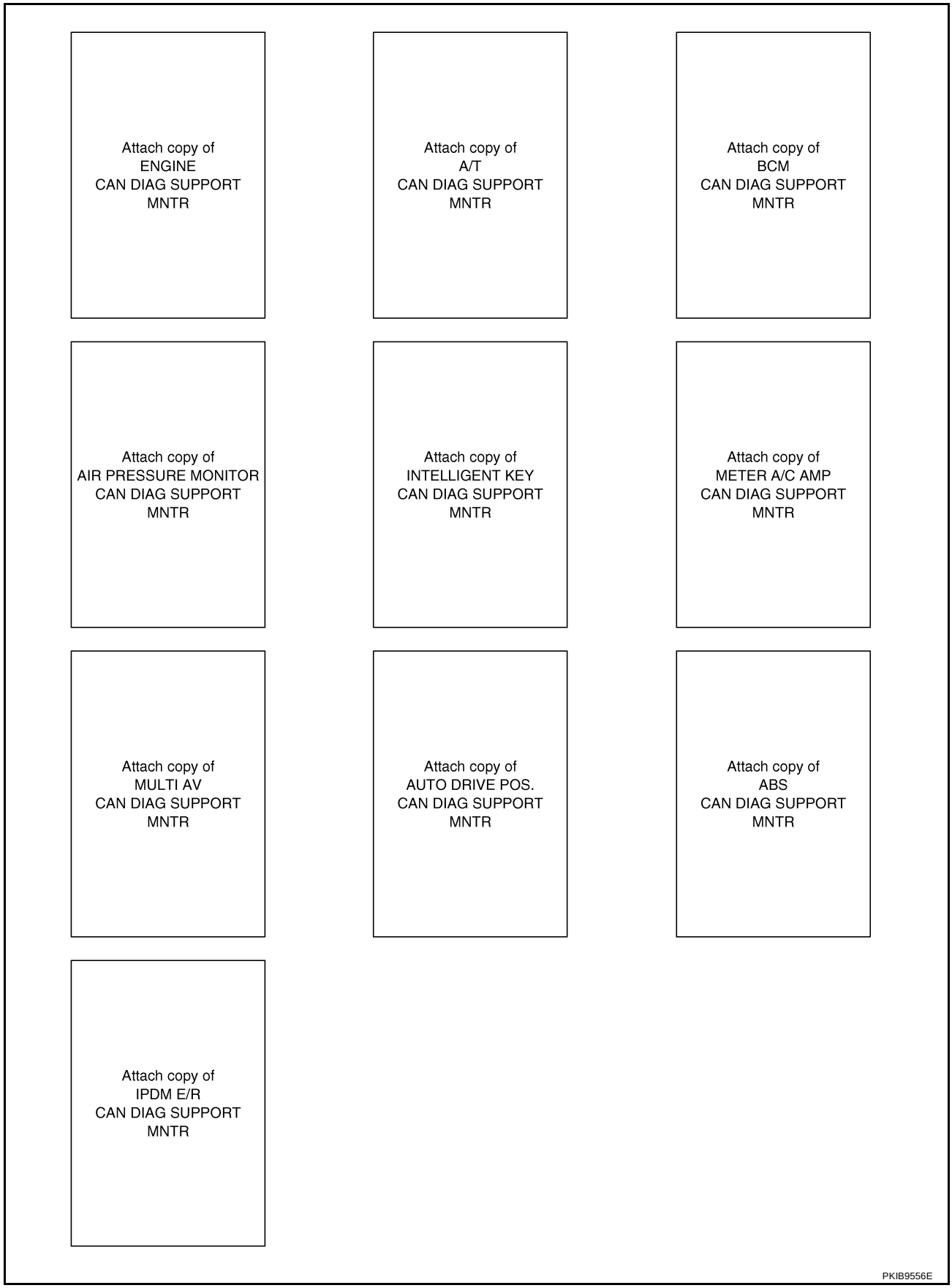
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ABS
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IPDM E/R
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MNTR
PKIB9556E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

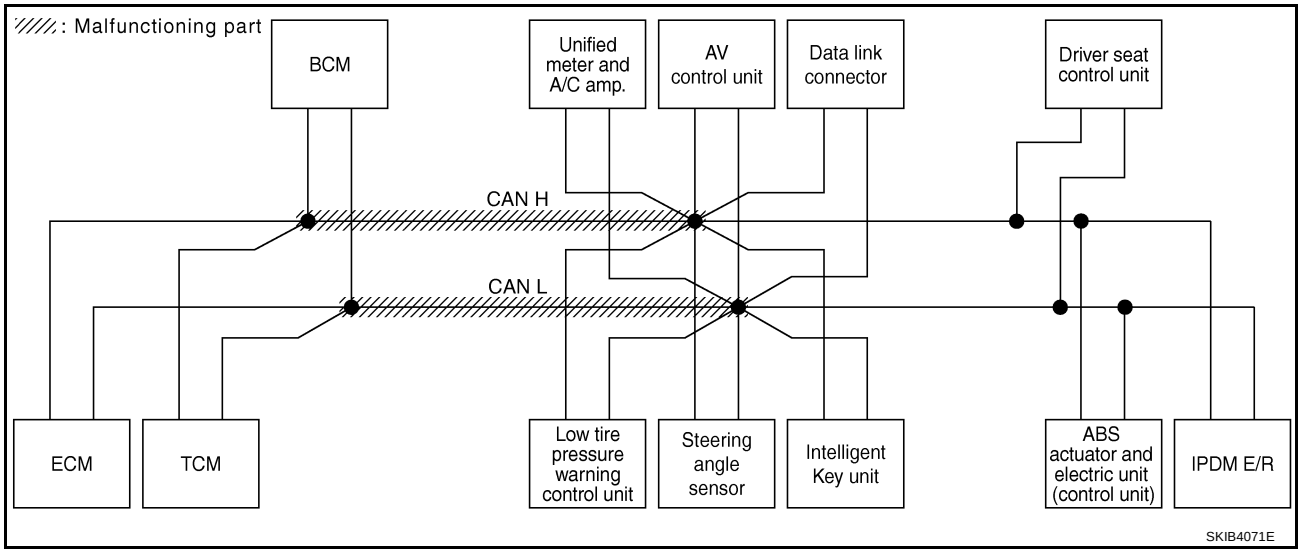
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	—	—	—	✓ 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

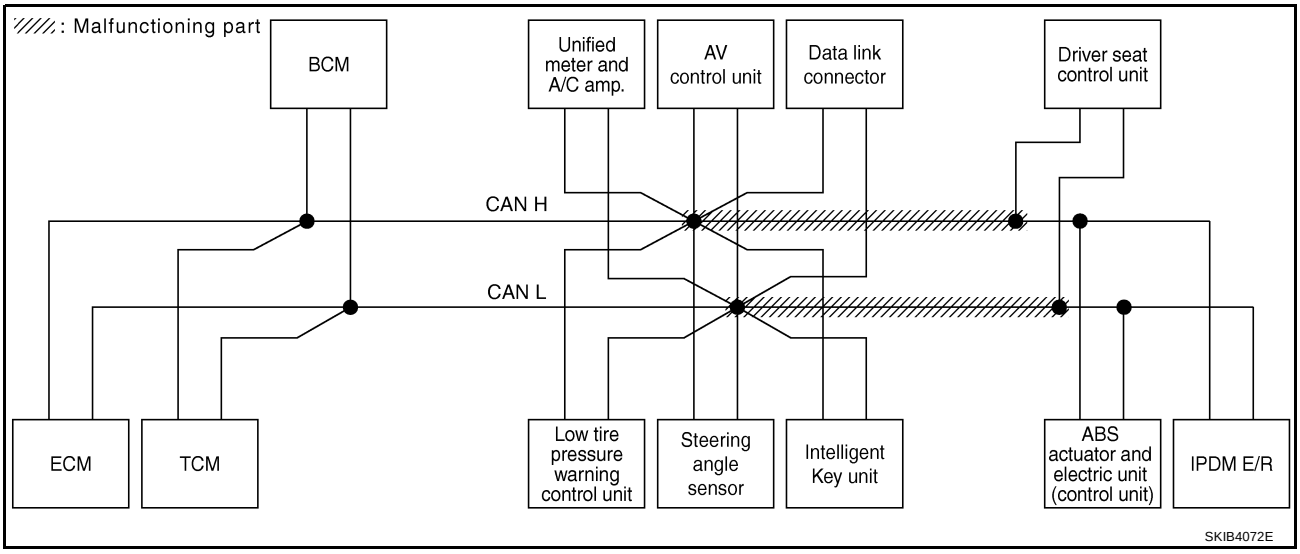


Case 2

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

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) ✓	—

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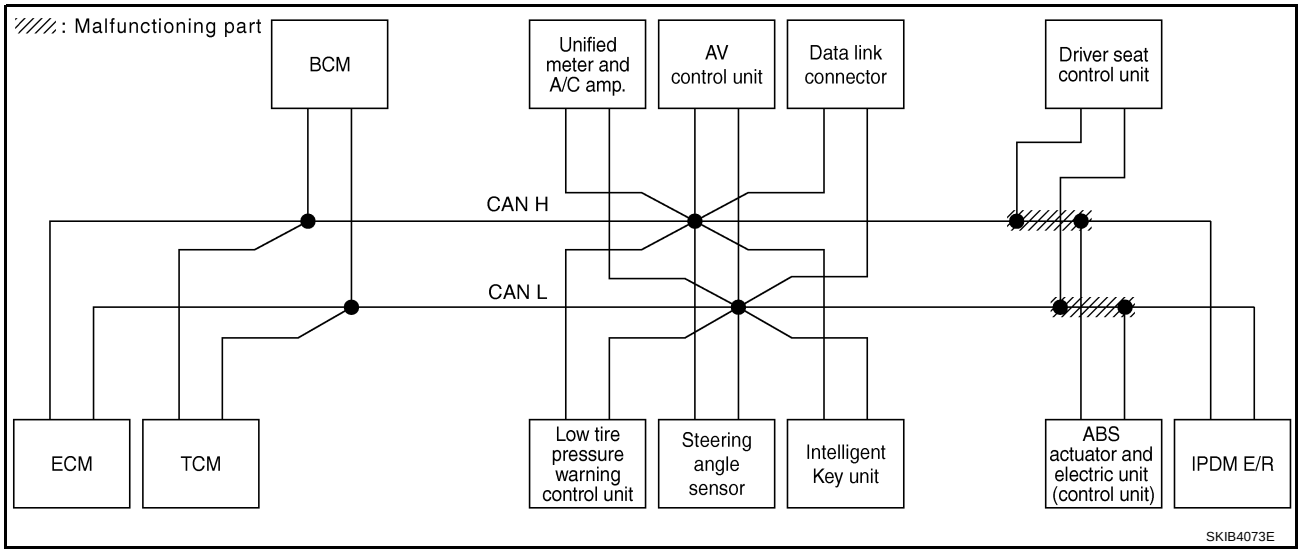


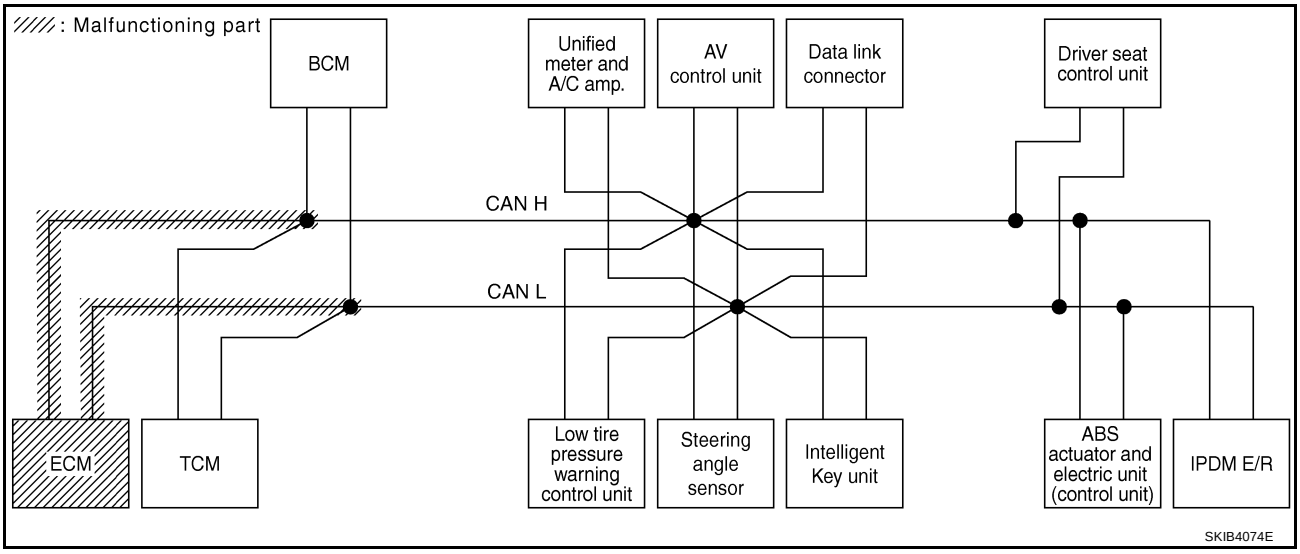
SKIB4073E

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	—	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) ✓	—

PKIB8384E



SKIB4074E

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	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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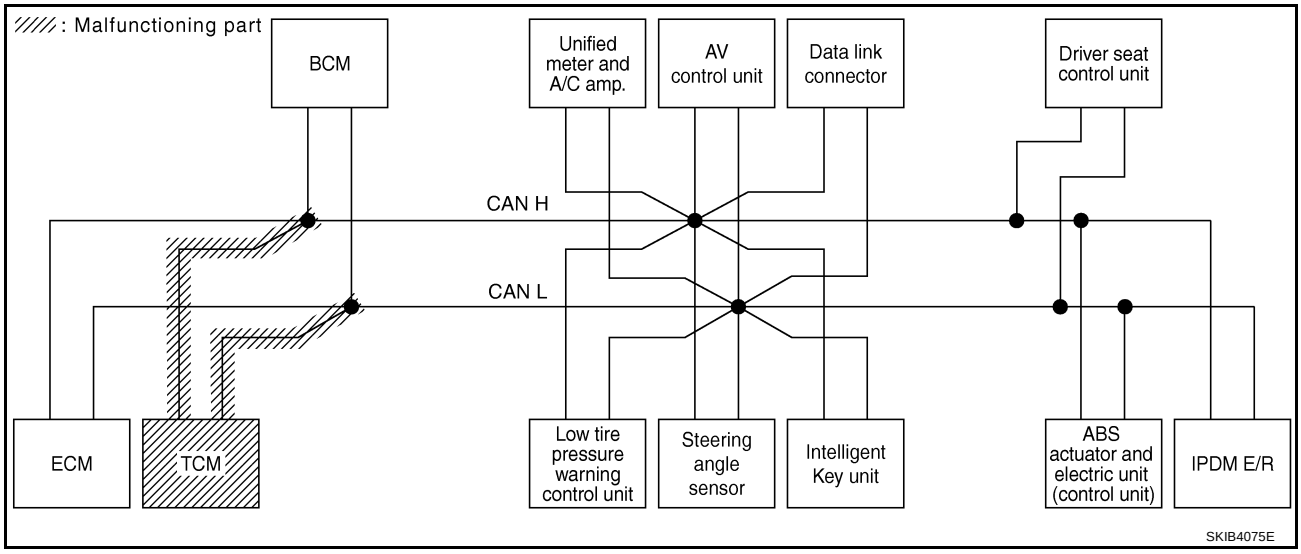

Case 6

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 (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) ✓	—

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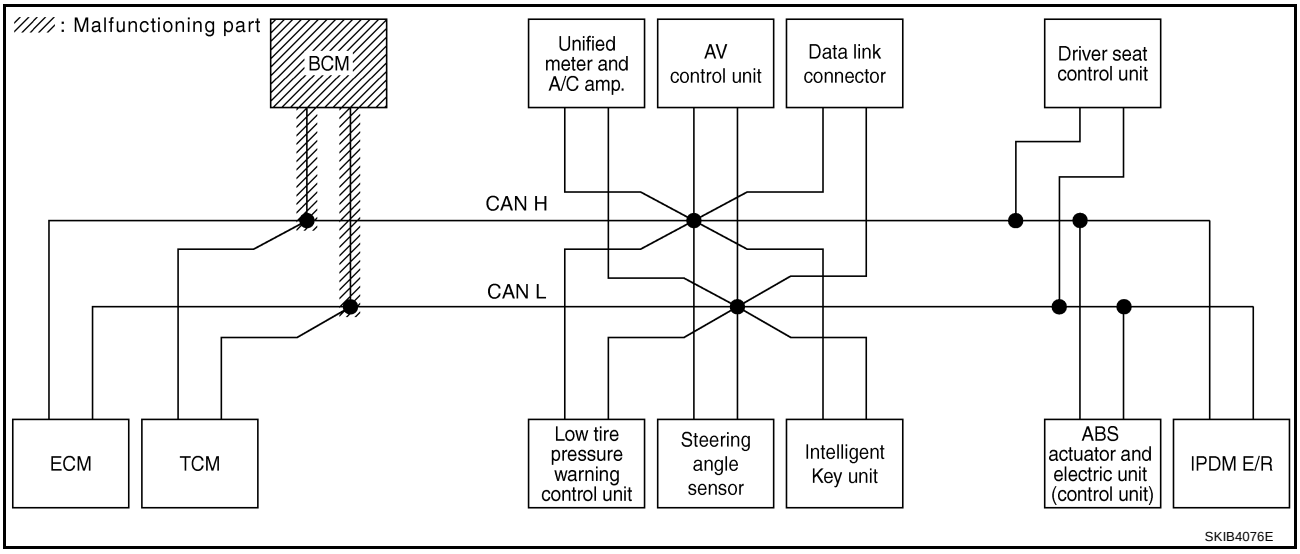

SKIB4076E

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)	—

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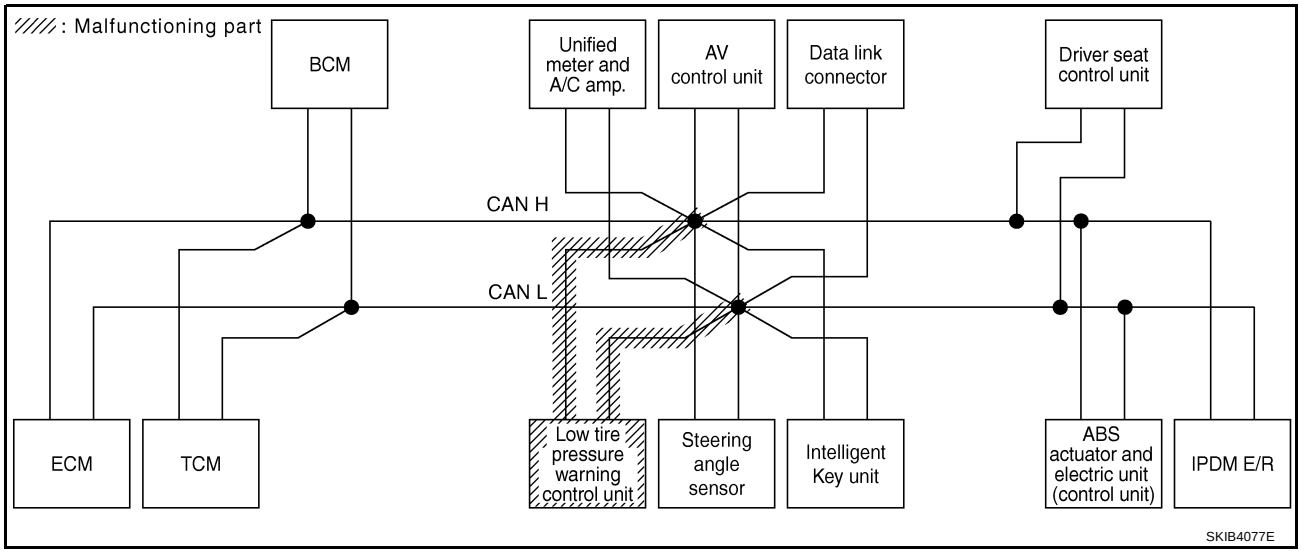


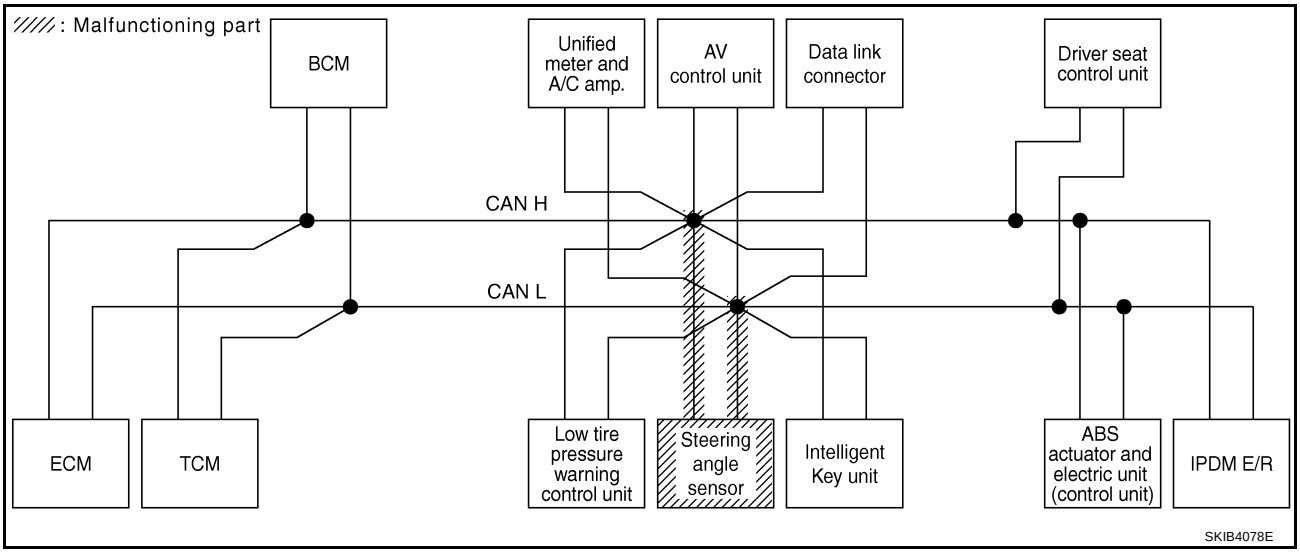
SKIB4077E

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	—	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



SKIB4078E

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	—	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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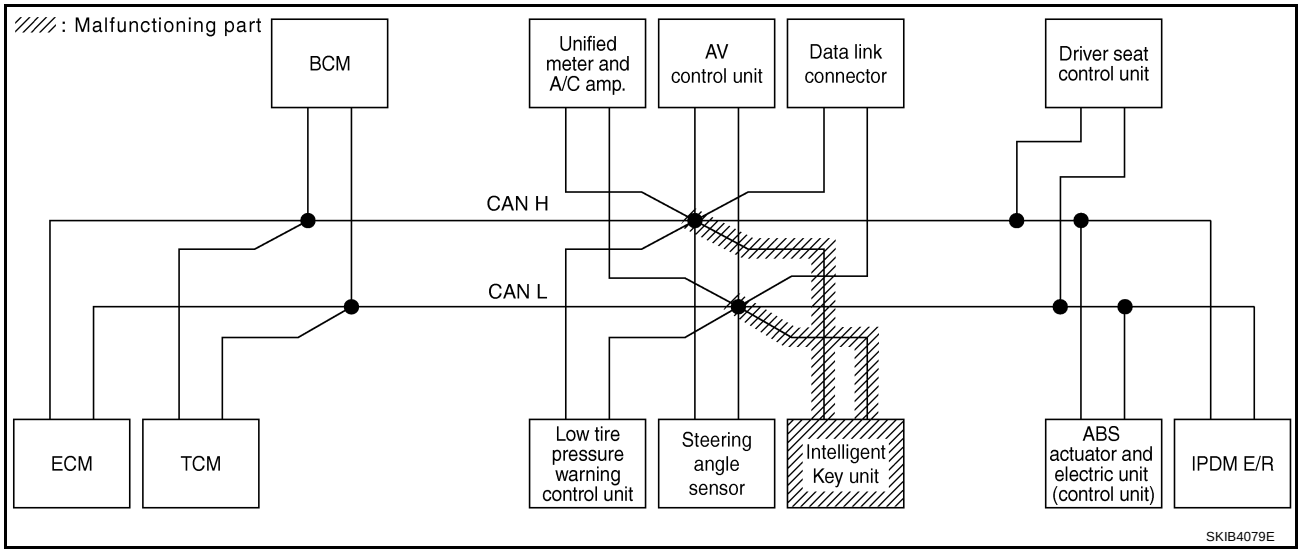

SKIB4079E

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 (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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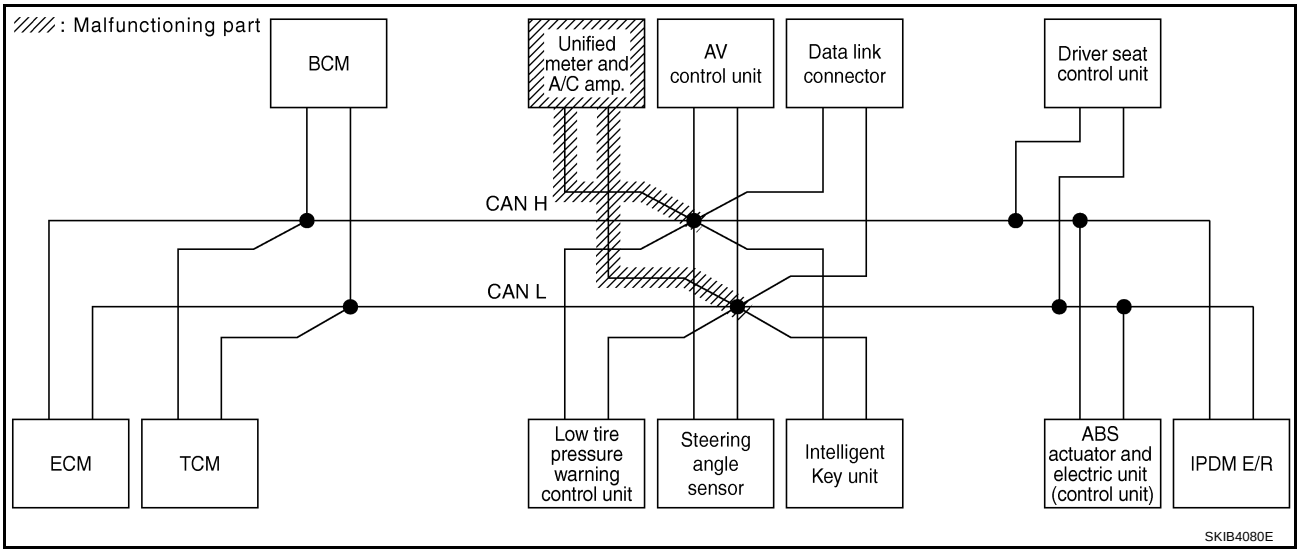


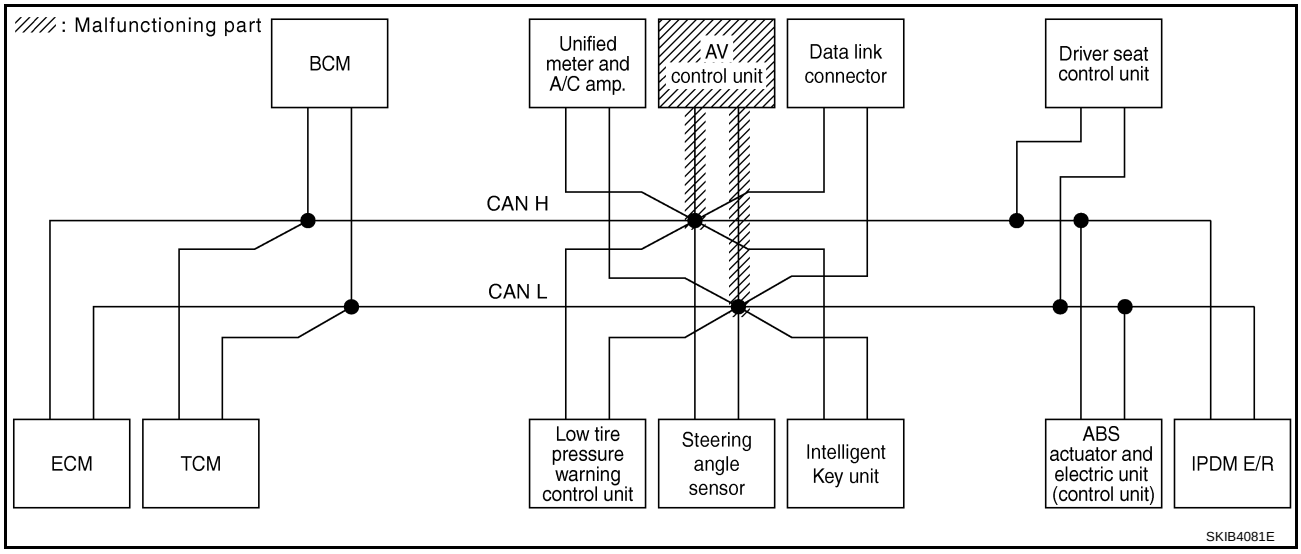
SKIB4080E

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



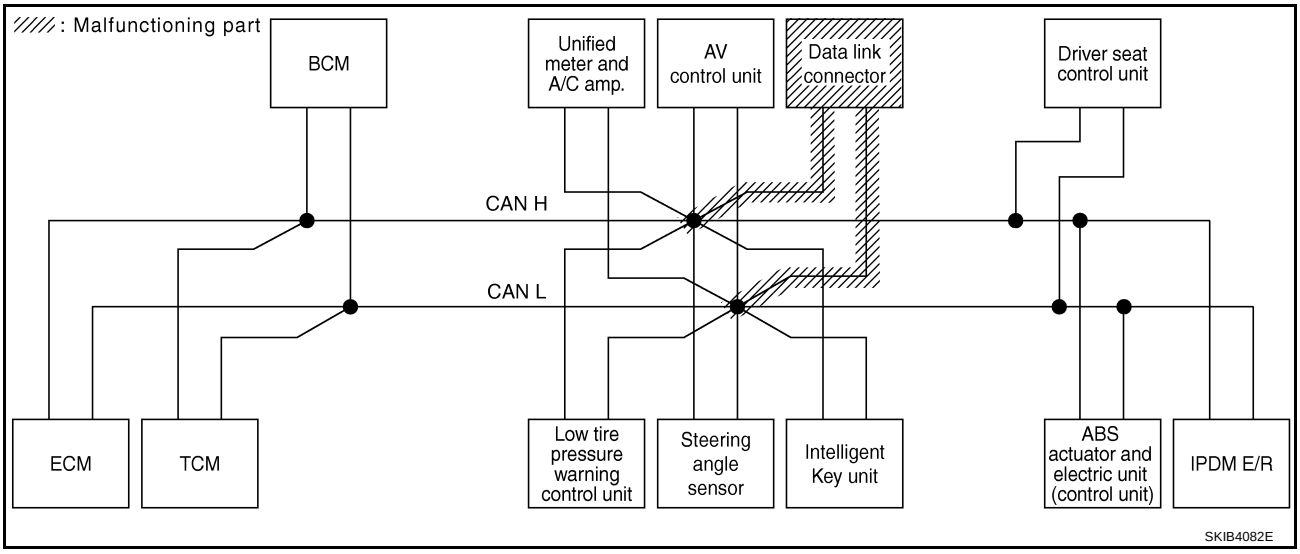
SKIB4081E

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	—	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



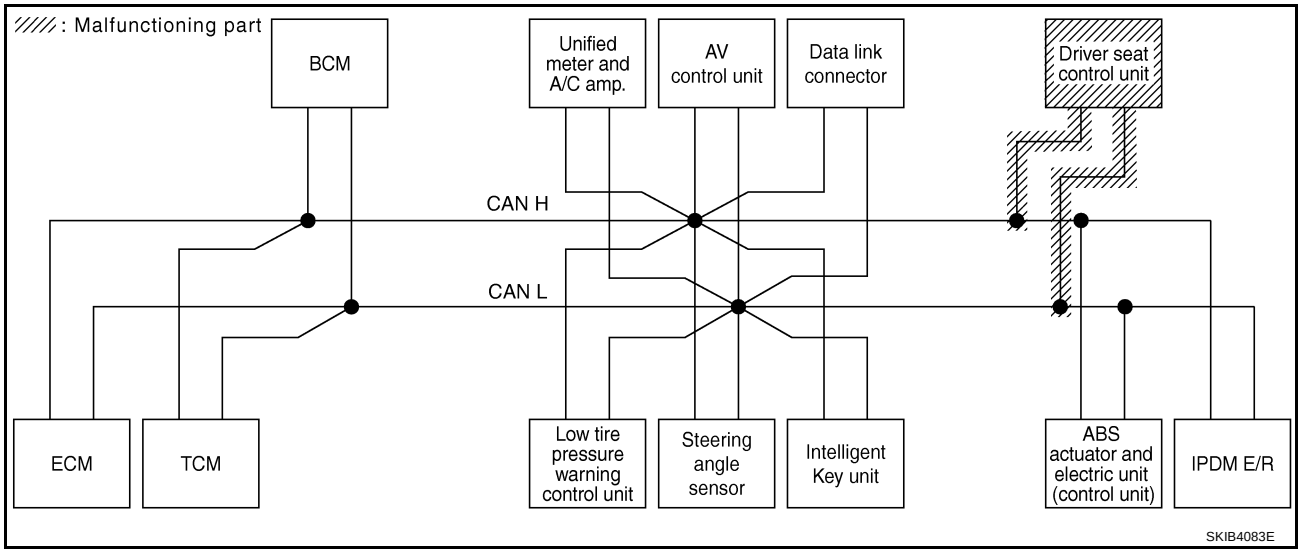
SKIB4082E

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	—	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



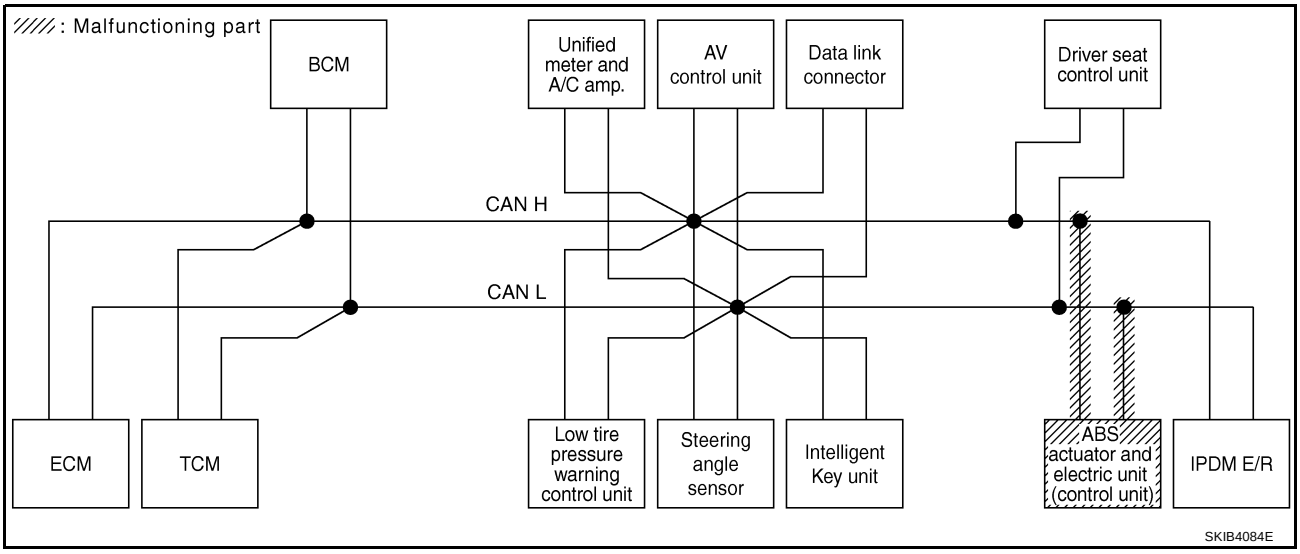
SKIB4083E

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	—	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



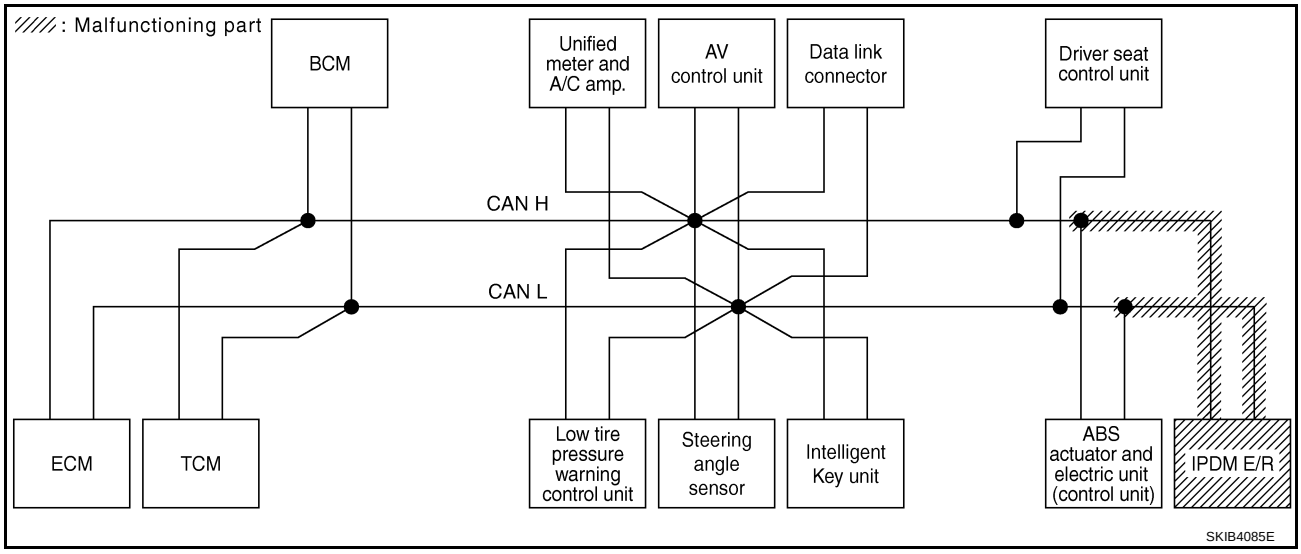
SKIB4084E

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	—	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

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	—	—	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)	—

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	—	—	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)	—

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

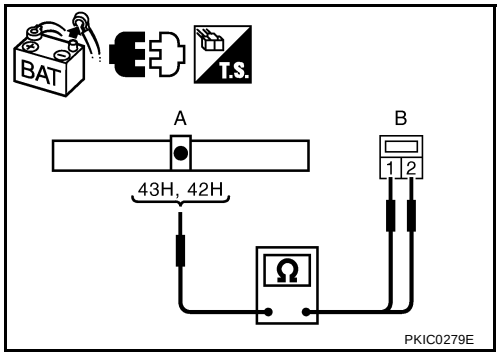
OK or NG

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



PKIC0279E

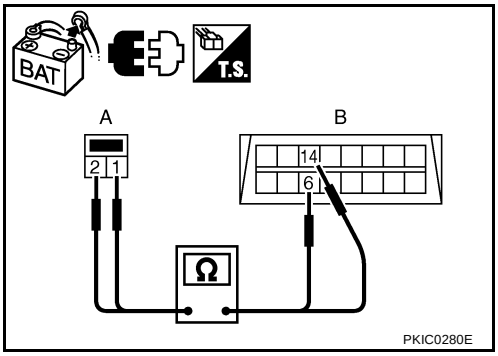
OK or NG

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

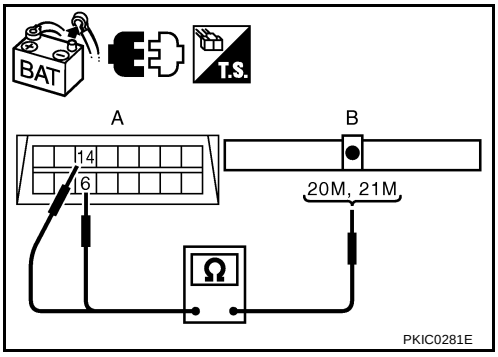
OK >> GO TO 2.

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

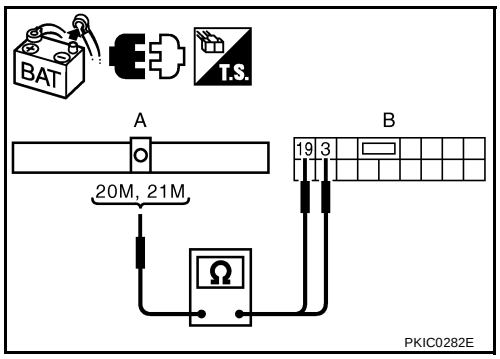
OK >> GO TO 3.

NG >> Repair harness.

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

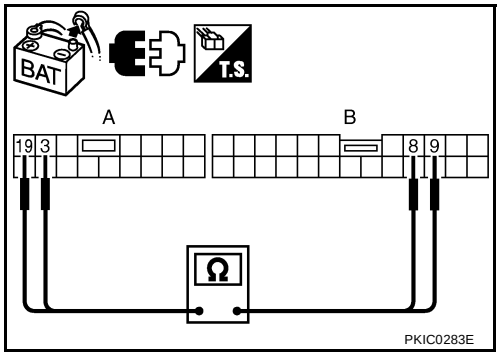
OK >> GO TO 2.

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

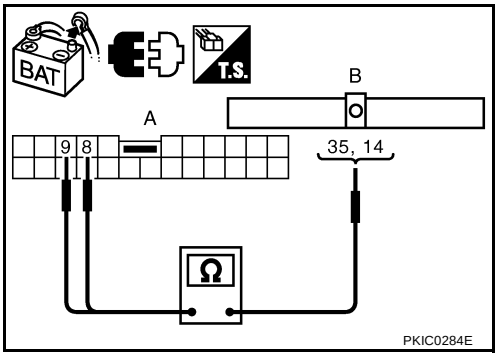
OK >> GO TO 3.

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

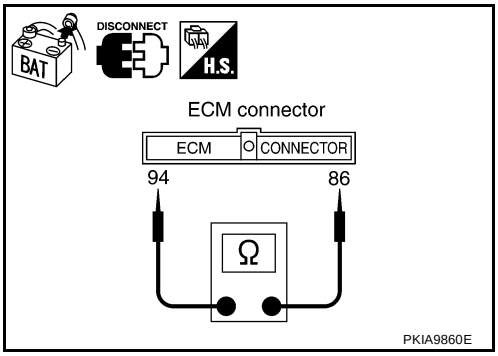
OK >> GO TO 2.

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.

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.

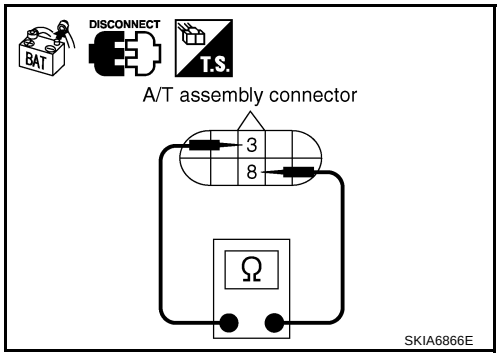
2. CHECK HARNESS FOR OPEN CIRCUIT

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

NKS003Y6

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.

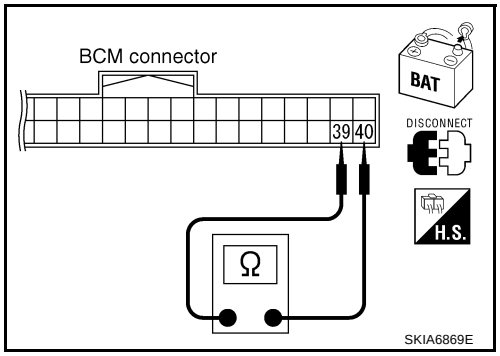
2. CHECK HARNESS FOR OPEN CIRCUIT

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

NKS003Y7

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).

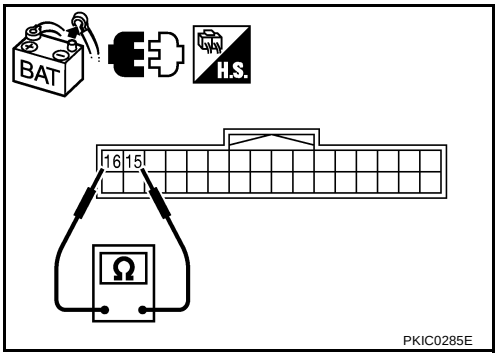
OK or NG

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

NKS003Y8

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).

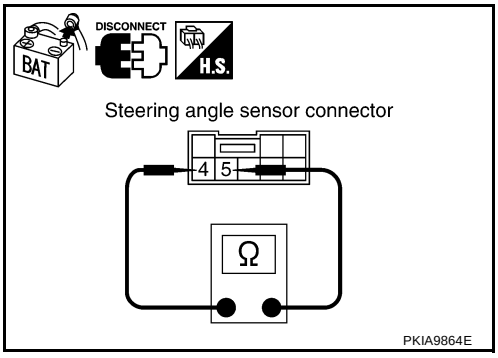
OK or NG

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

NKS003Y9

1. CHECK CONNECTOR

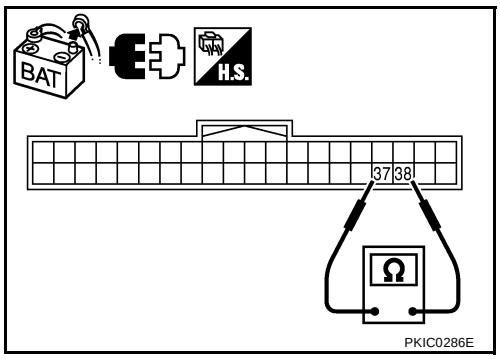
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

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

NKS003YA

1. CHECK CONNECTOR

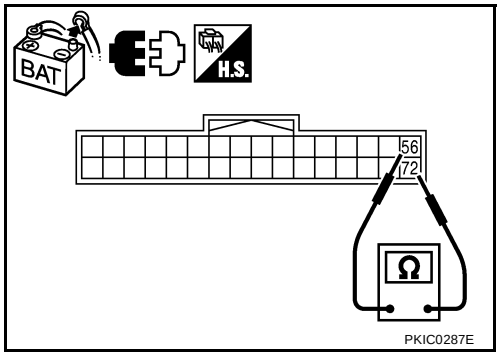
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS003YB

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

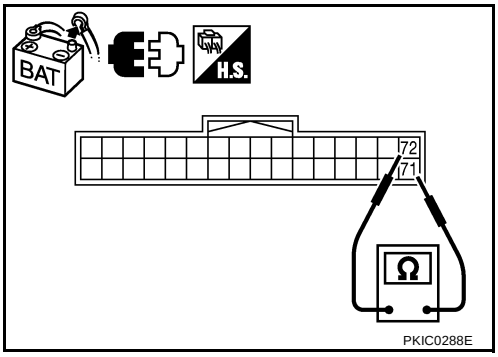
OK or NG

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

NKS003YC

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).

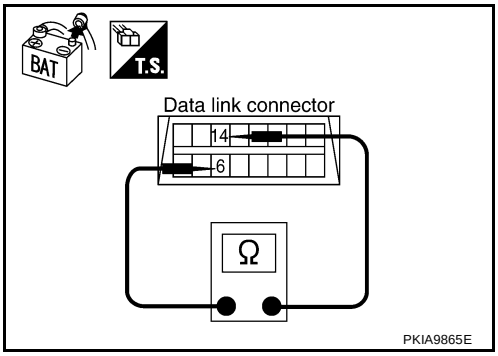
OK or NG

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

NKS003YD

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

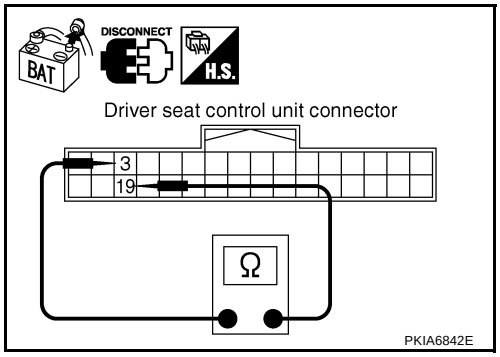
OK or NG

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

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).

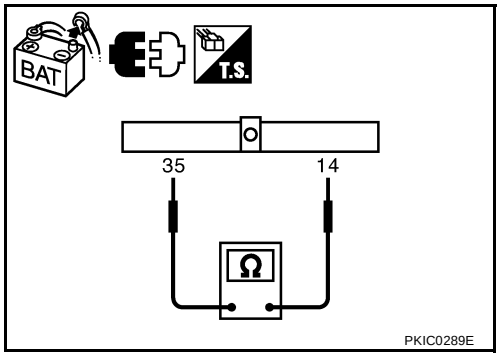
OK or NG

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

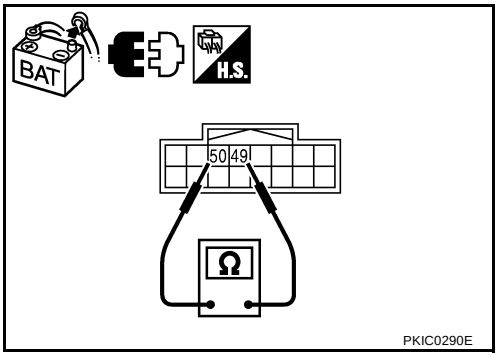
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

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.

CAN Communication Circuit Inspection

NKS003YG

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

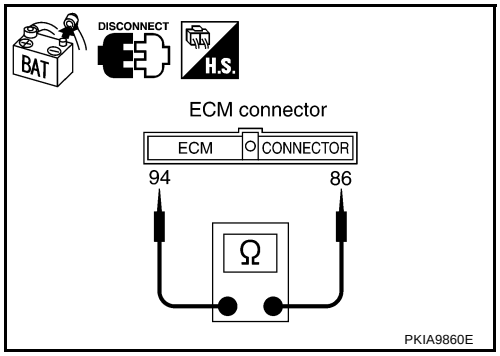
OK >> GO TO 2.
NG >> Repair terminal or connector.

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

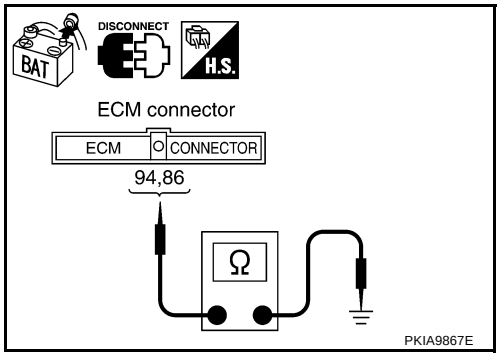
OK >> GO TO 3.

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		Continuity
M71	94	Ground	No
	86		No



OK or NG

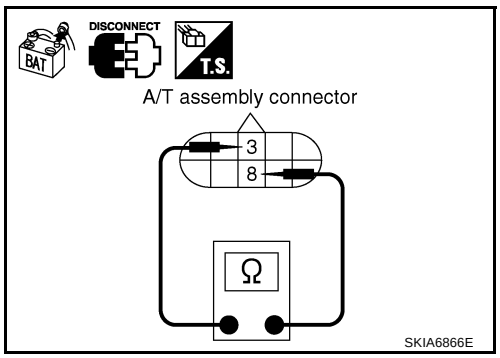
OK >> GO TO 4.

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 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

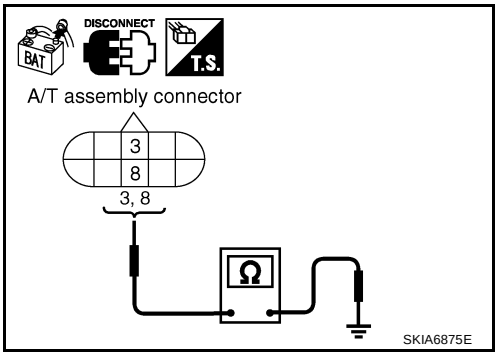
OK >> GO TO 5.

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

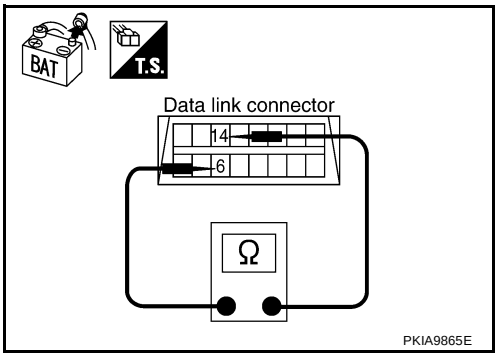
OK >> GO TO 6.
NG >> Repair harness between A/T assembly and harness connector F102.

6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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



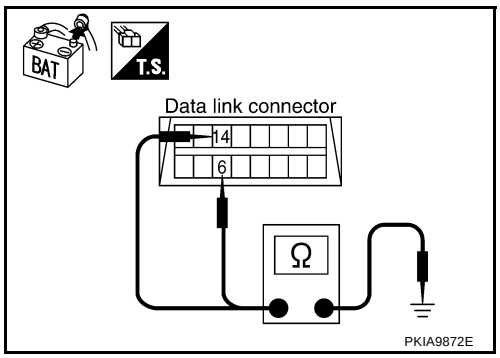
OK or NG

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		No
	14		No



OK or NG

OK >> GO TO 8.

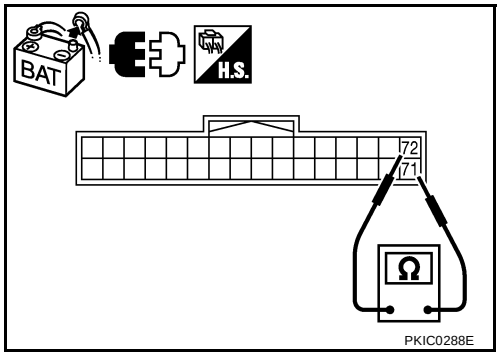
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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		Continuity
M210	71	72	No



OK or NG

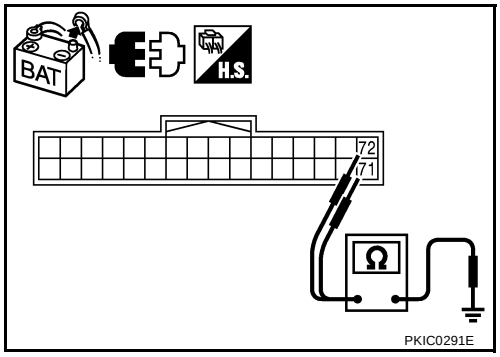
OK >> GO TO 9.

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		No
	72		No



OK or NG

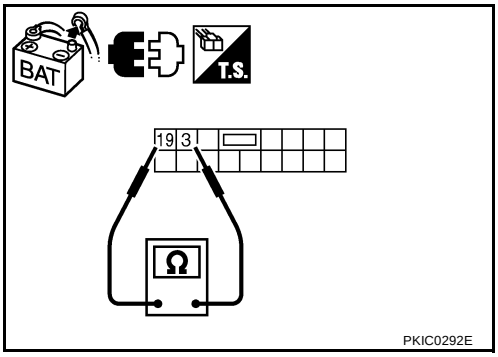
OK >> GO TO 10.

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.

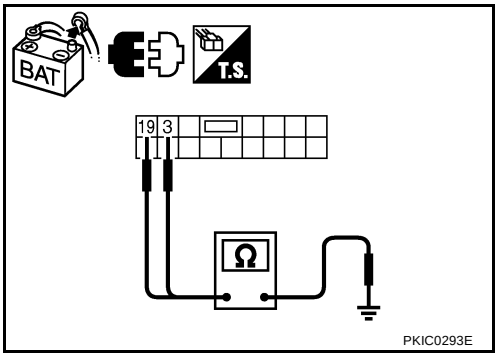
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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		Continuity
B15	3	Ground	No
	19		No



OK or NG

OK >> GO TO 12.

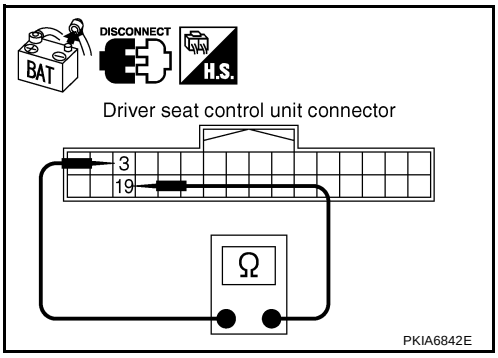
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

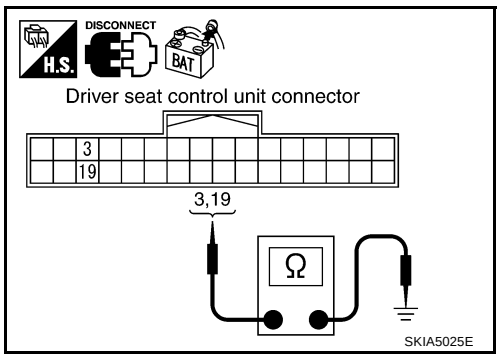
OK >> GO TO 13.

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

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



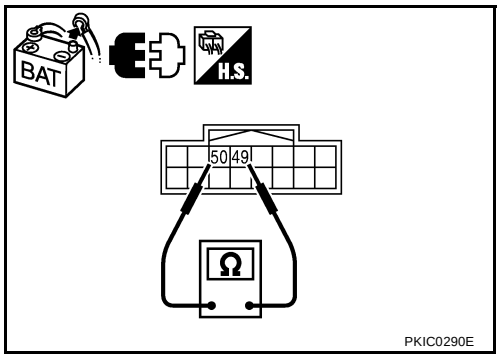
OK or NG

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

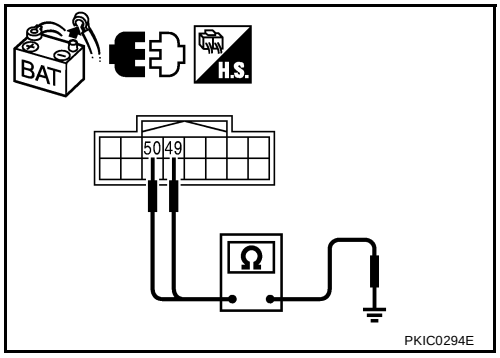
OK >> GO TO 15.
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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)

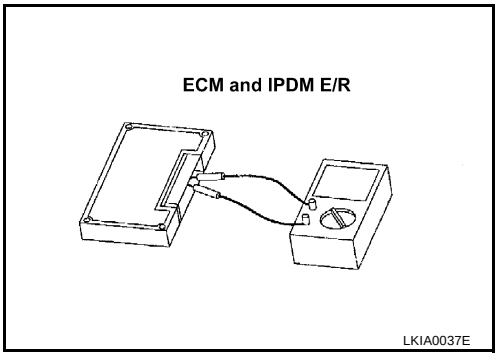
16. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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.

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”" .

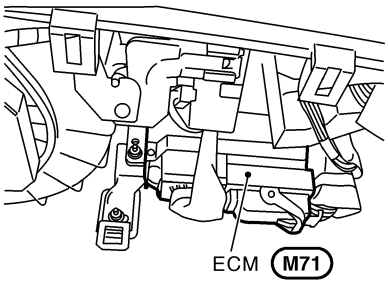
CAN SYSTEM (TYPE 2)

PFP:23710

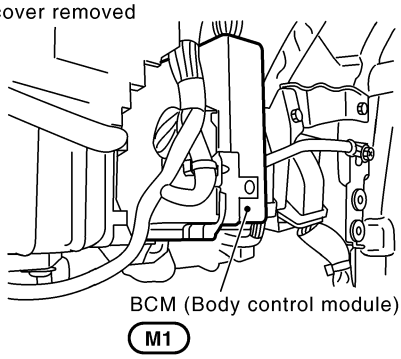
Component Parts and Harness Connector Location

NKS003YI

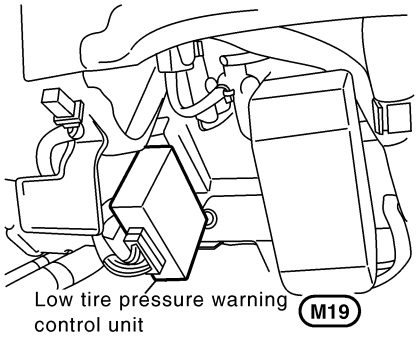
Passenger side view with instrument lower cover removed



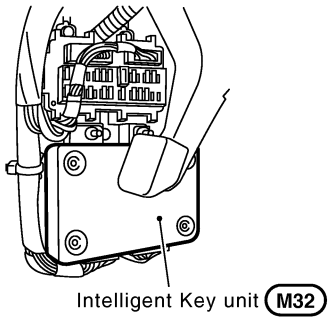
Passenger side view with instrument lower cover removed



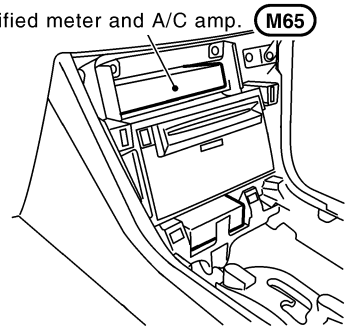
Driver side view with instrument lower panel removed



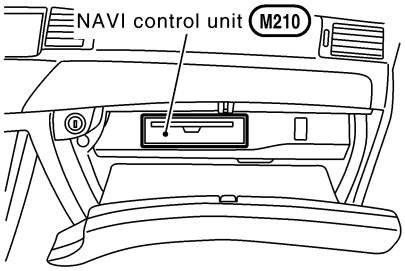
Behind dash side lower LH finisher



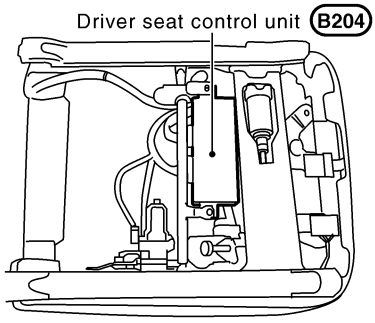
View with cluster lid C removed



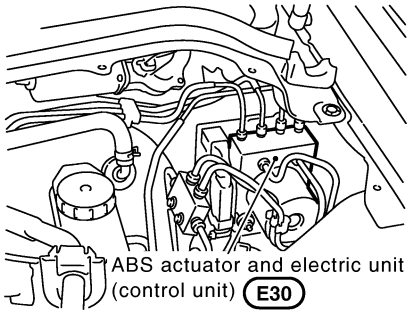
Inside of glove box



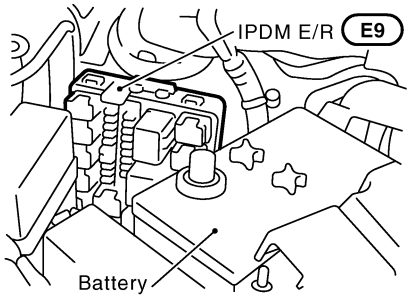
Under driver's seat



Rear left of engine room



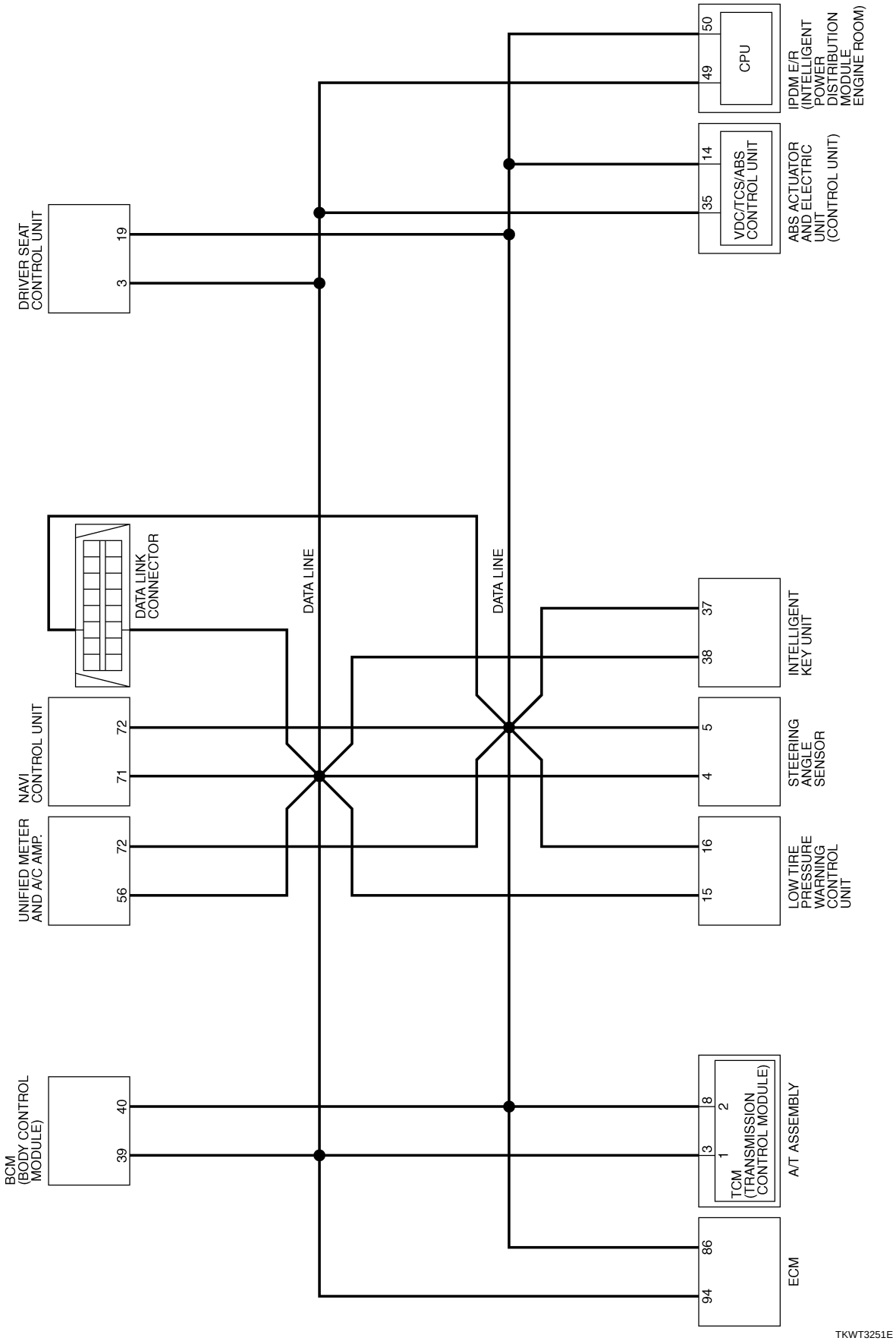
View with cowl top cover removed



PKIC0600E

Schematic

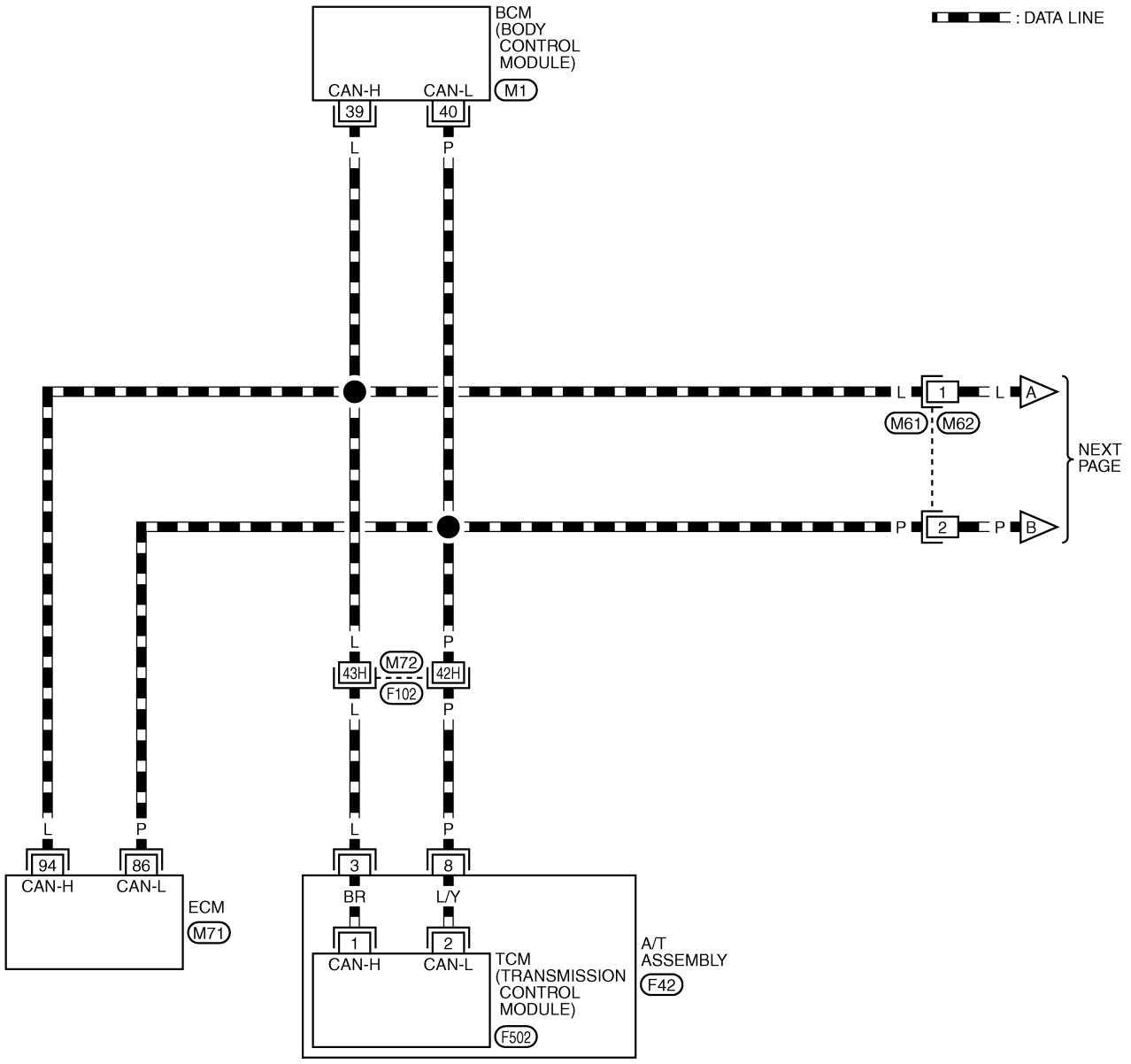
NKS003YJ



Wiring Diagram — CAN —

NKS003YK

LAN-CAN-04



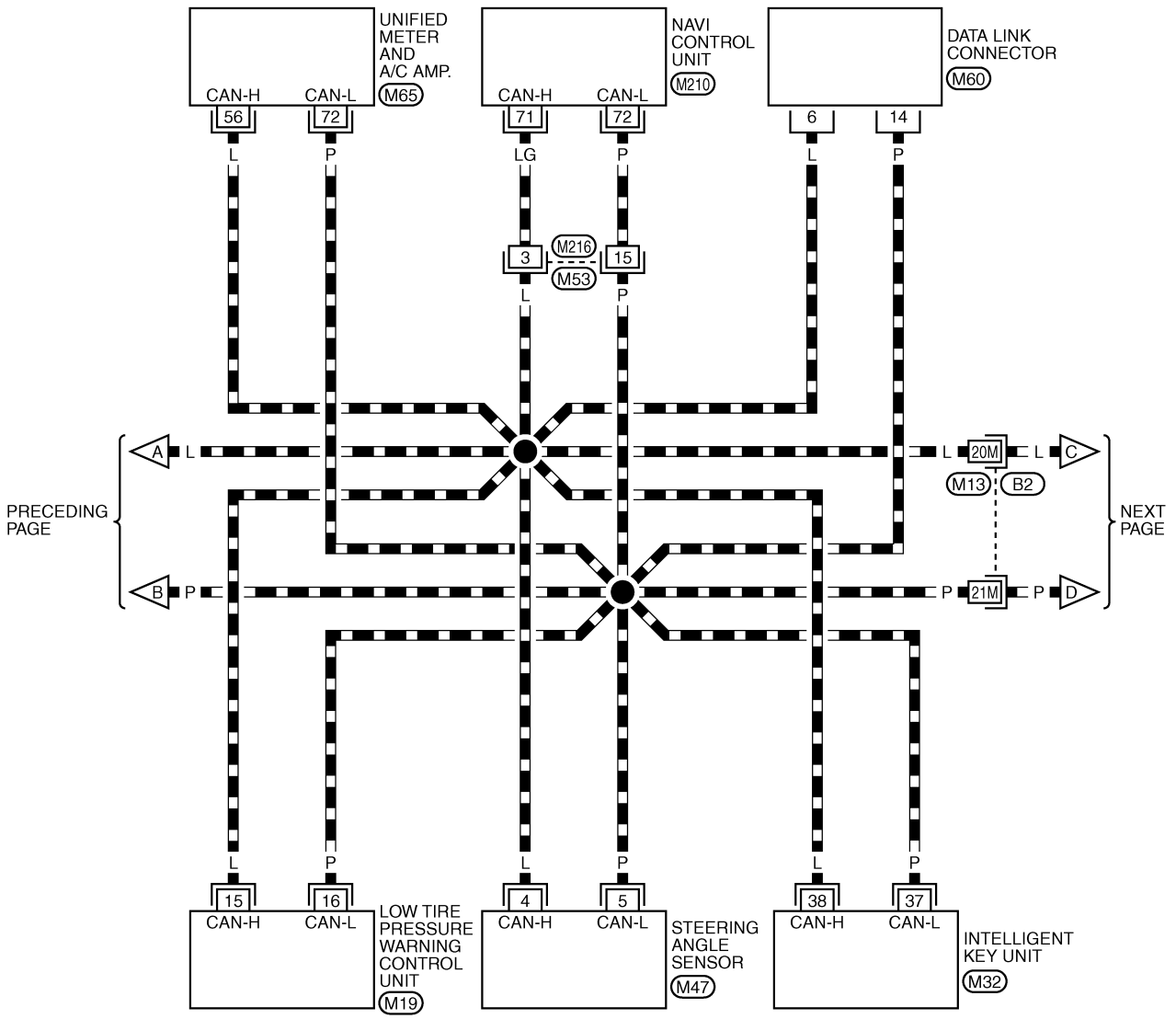
REFER TO THE FOLLOWING.
F102 -SUPER MULTIPLE JUNCTION (SMJ)
M1 , M71 -ELECTRICAL UNITS

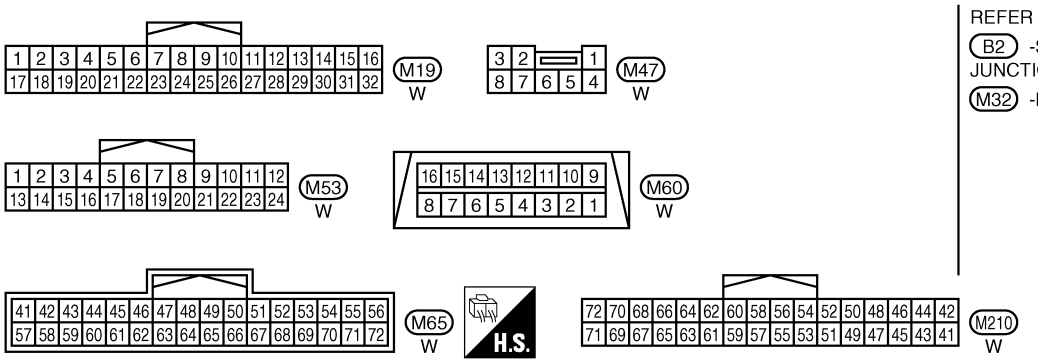
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3252E

LAN-CAN-05

: DATA LINE





REFER TO THE FOLLOWING.

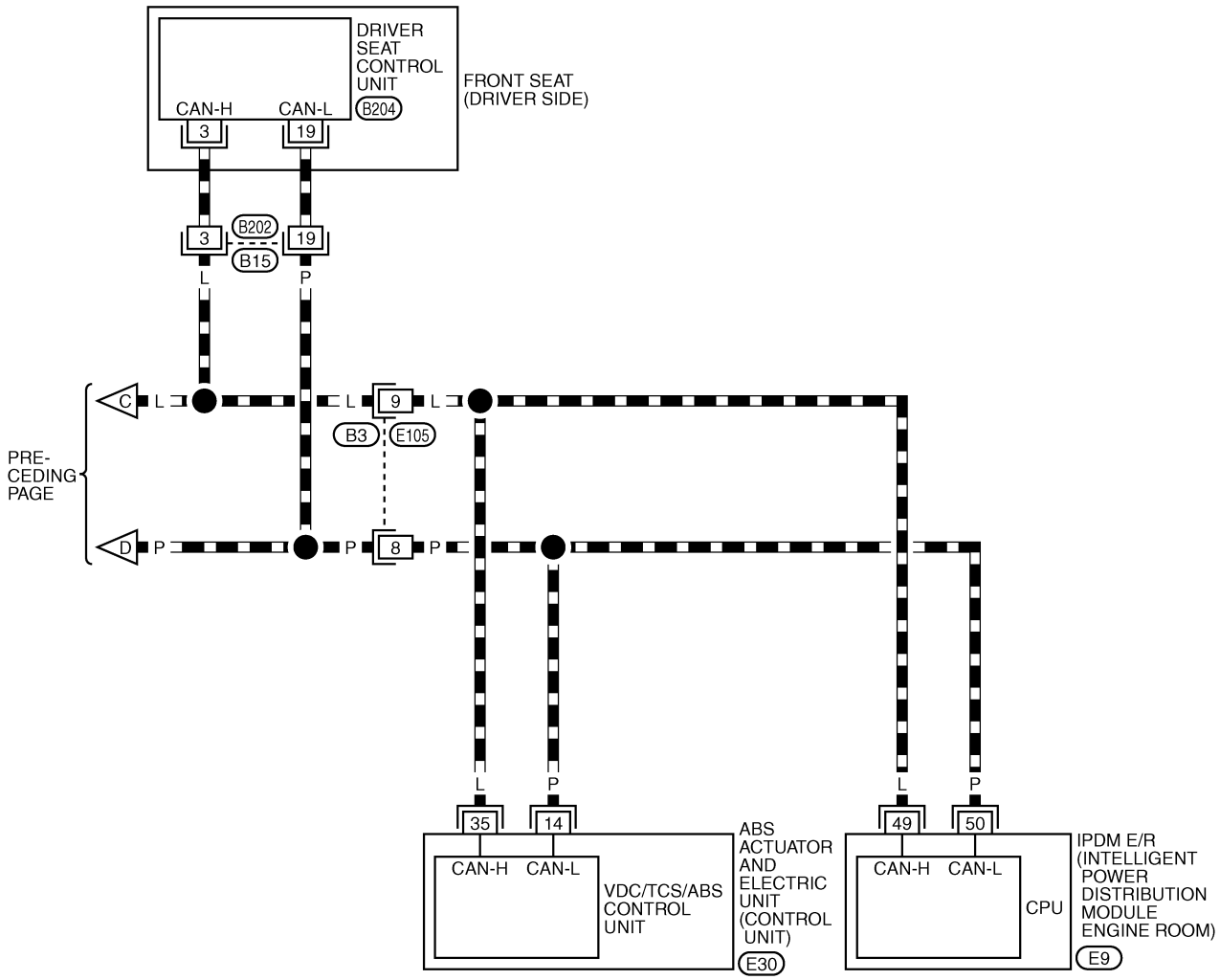
B2 -SUPER MULTIPLE JUNCTION (SMJ)

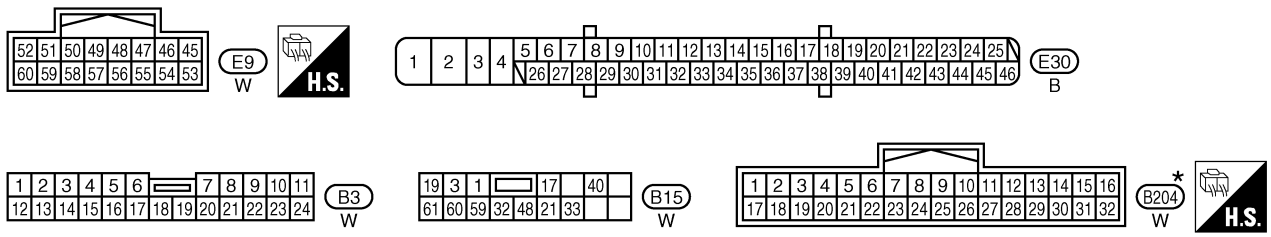
M32 -ELECTRICAL UNITS

TKWT3253E

LAN-CAN-06

: DATA LINE





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

TKWT3254E

Check Sheet

NKS003YL

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

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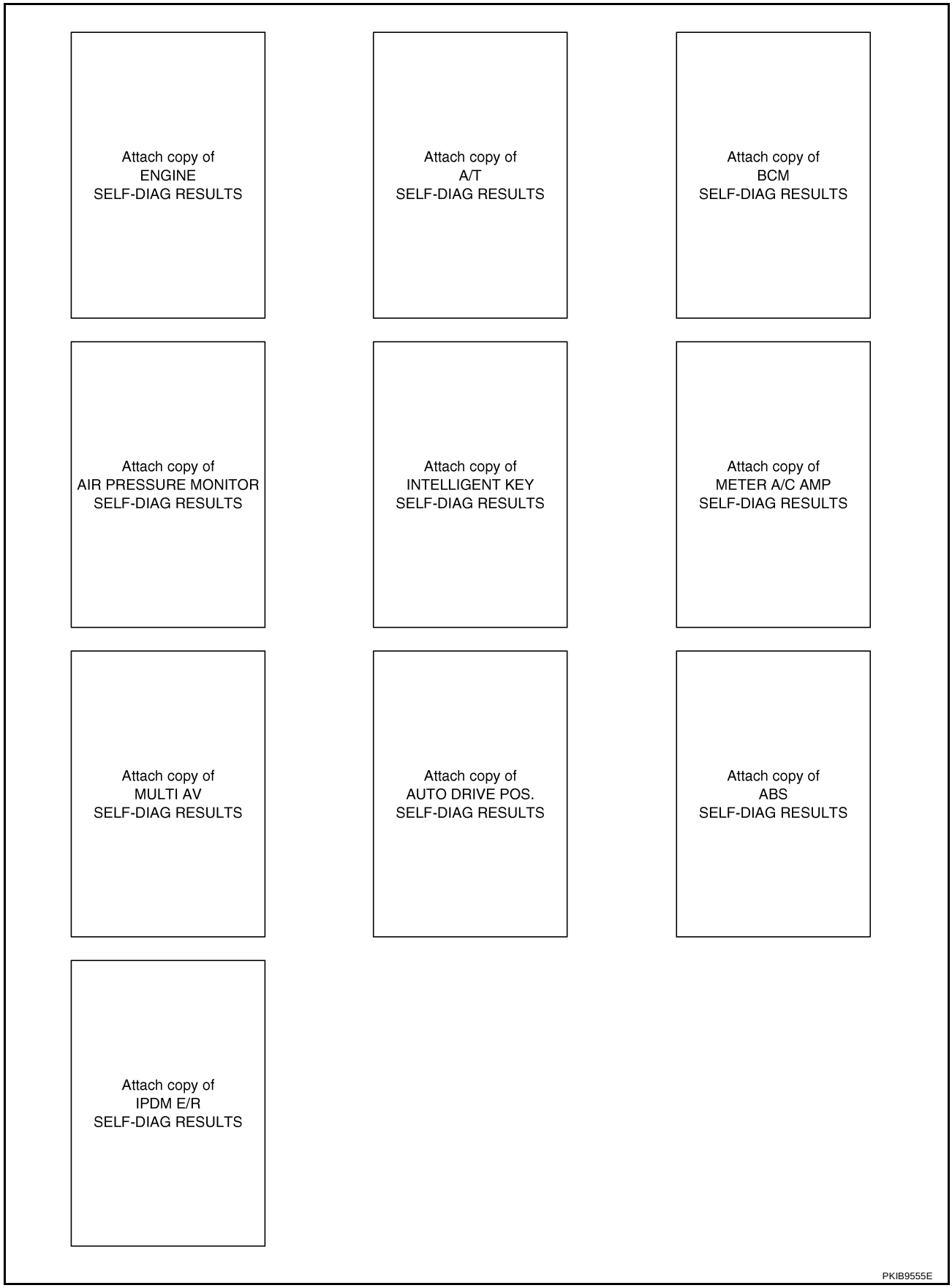
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ENGINE
SELF-DIAG RESULTS
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A/T
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Attach copy of
AIR PRESSURE MONITOR
SELF-DIAG RESULTS
Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS
Attach copy 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
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Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
A/T
CAN DIAG SUPPORT
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CAN DIAG SUPPORT
MNTR

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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) ✓	—

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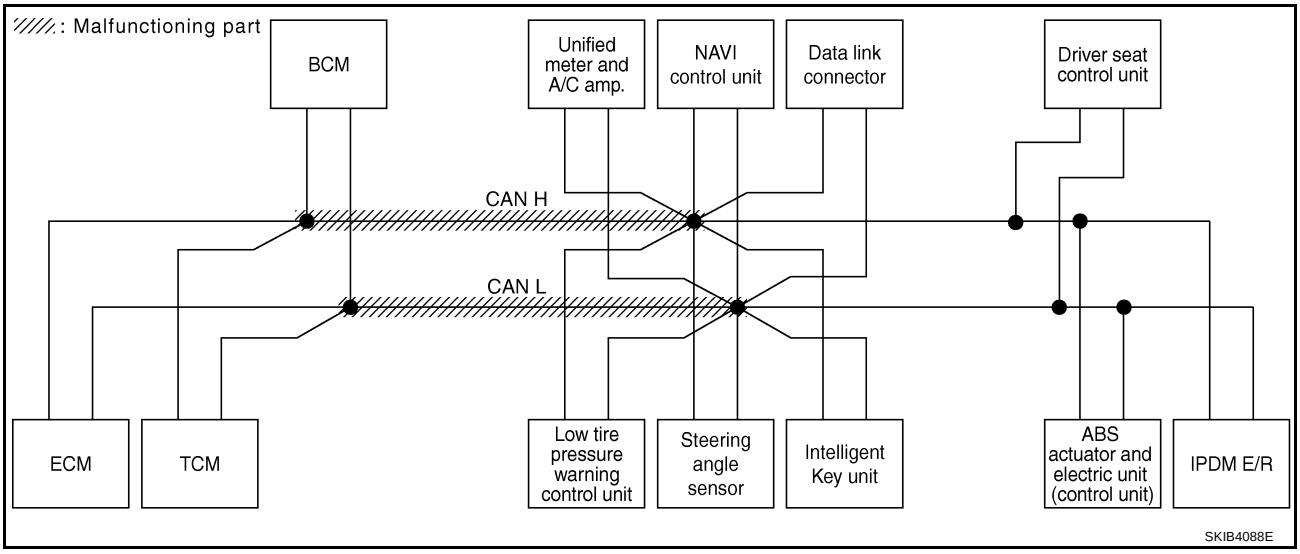

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Case 2

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	✓ UNKWN	—	—	✓ UNKWN	—	—	—	—	—	✓ CAN COMM CIRCUIT (U1000)	—
IPDM E/R	✓ No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	✓ CAN COMM CIRCUIT (U1000)	—

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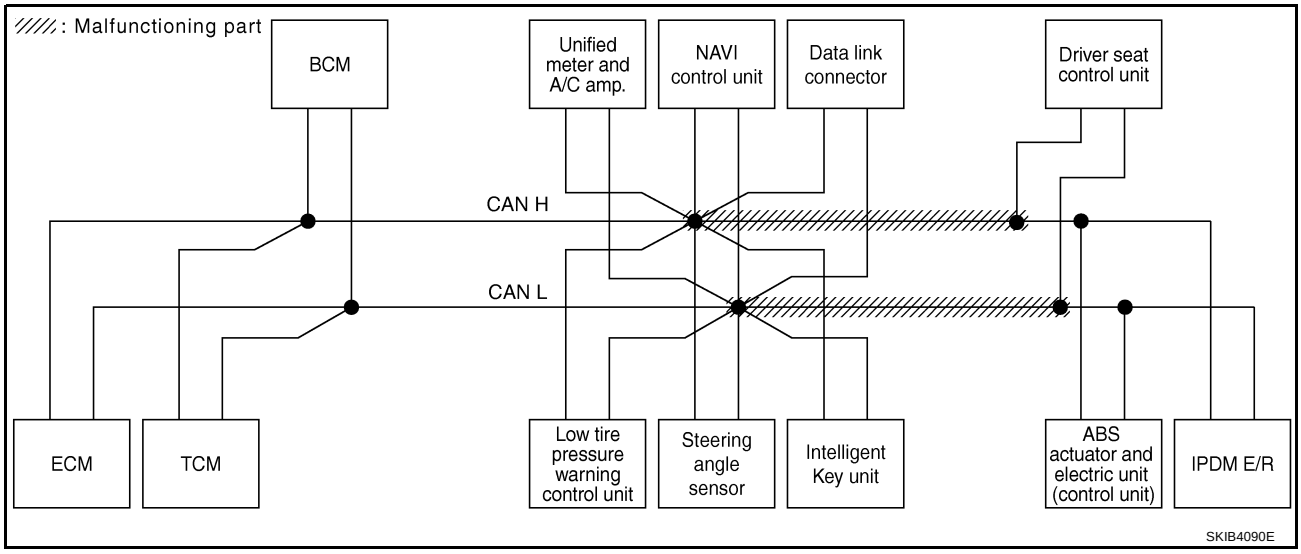

Case 3

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" .

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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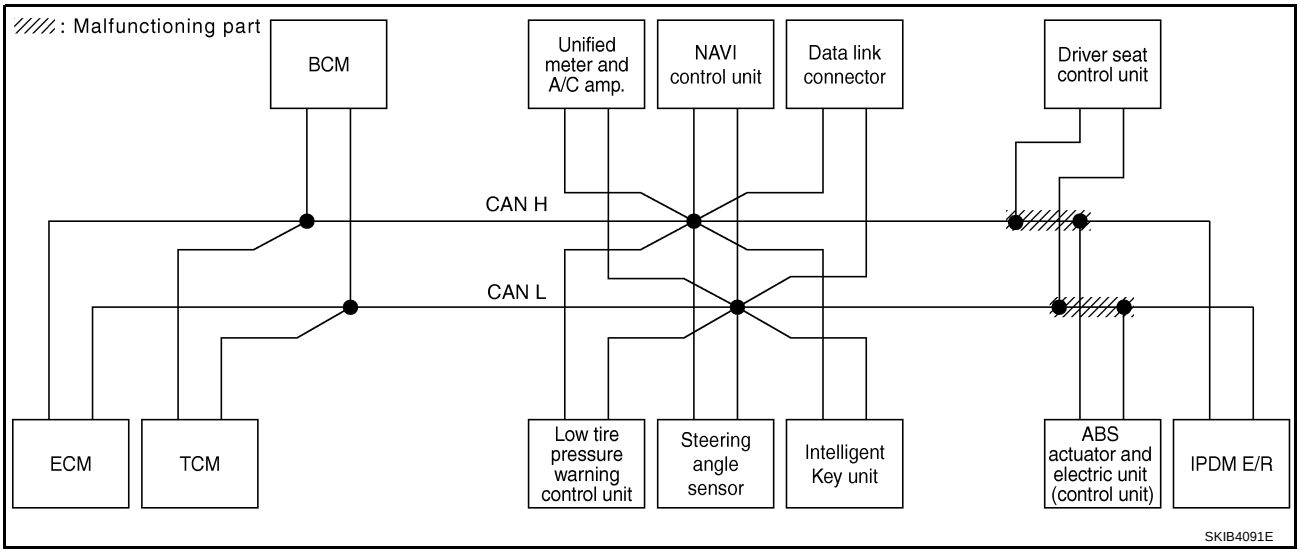

SKIB4091E

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 (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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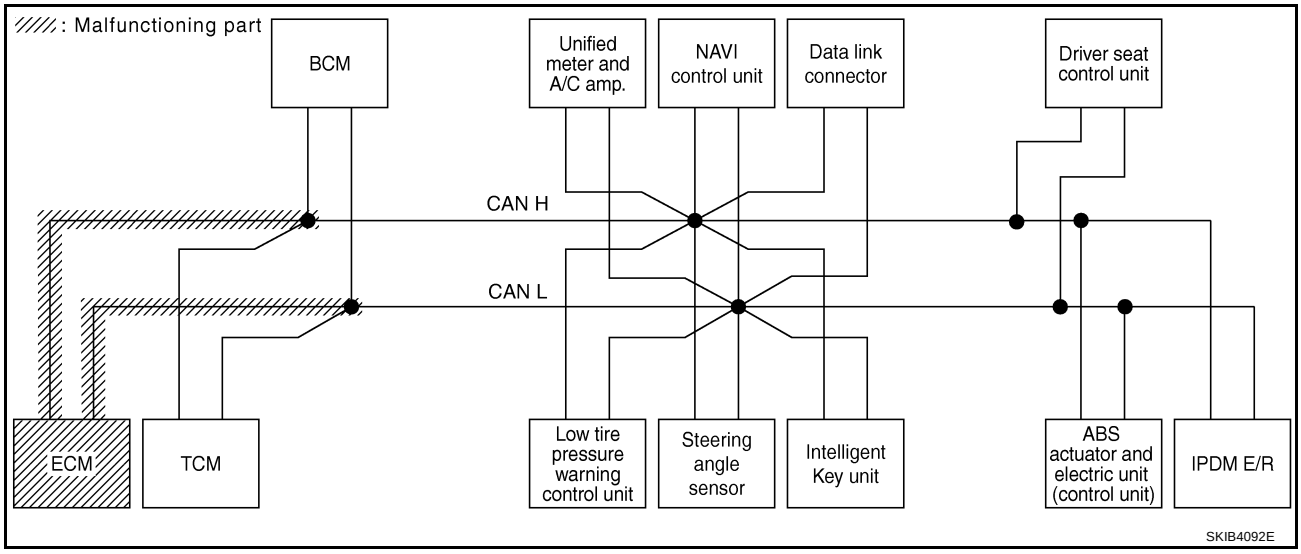

SKIB4092E

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	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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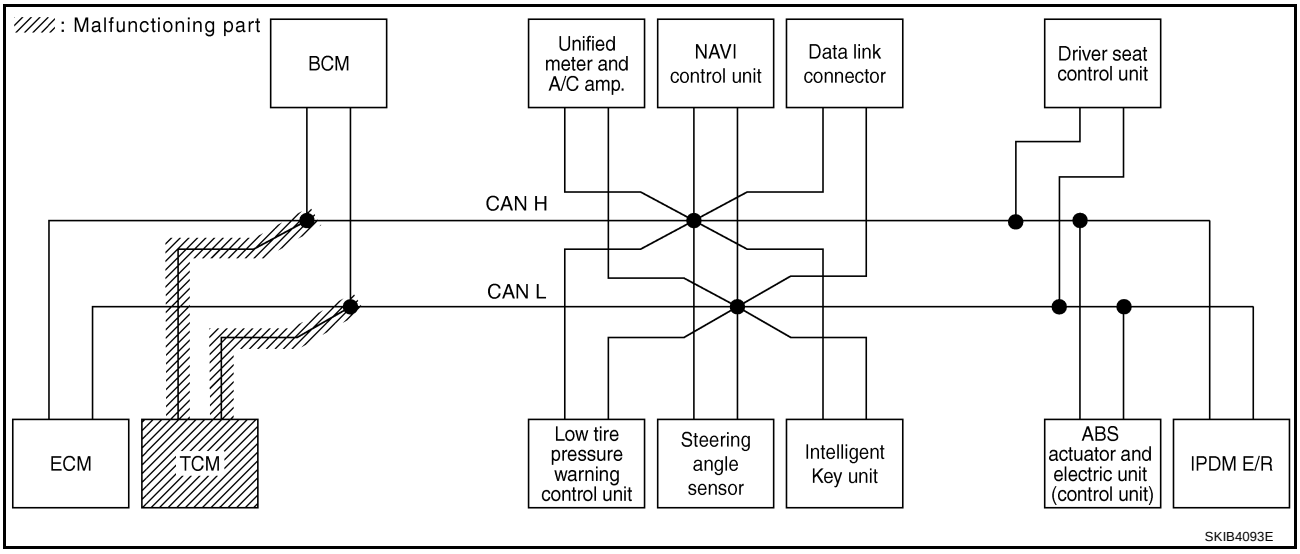


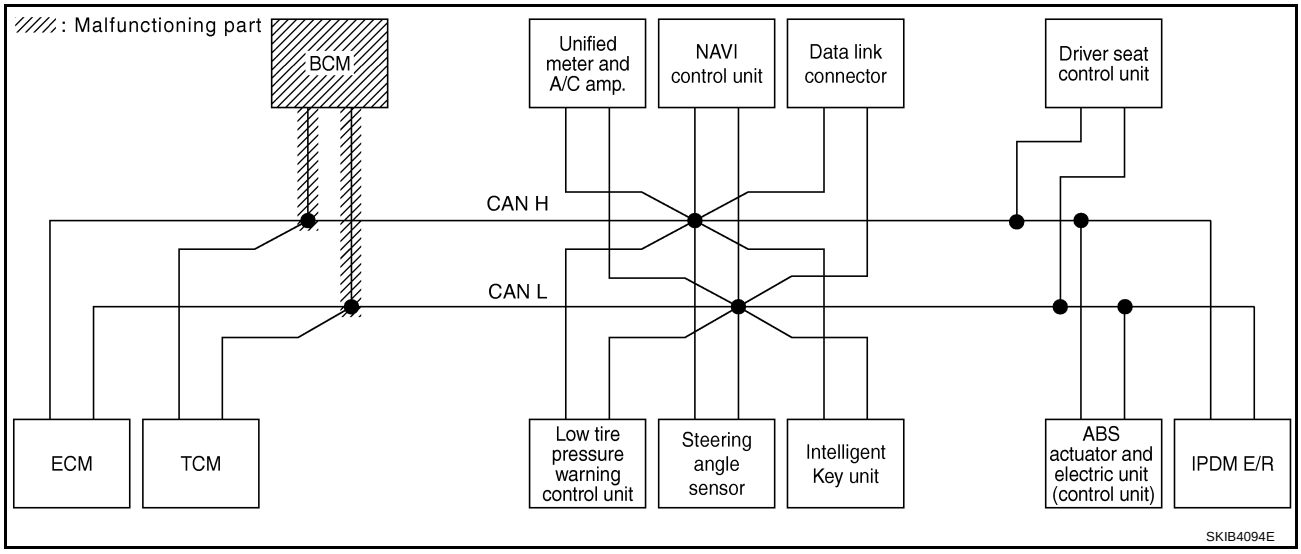
SKIB4093E

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

Case 7

Check low tire pressure warning control unit circuit. Refer to LAN-117, "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)	—

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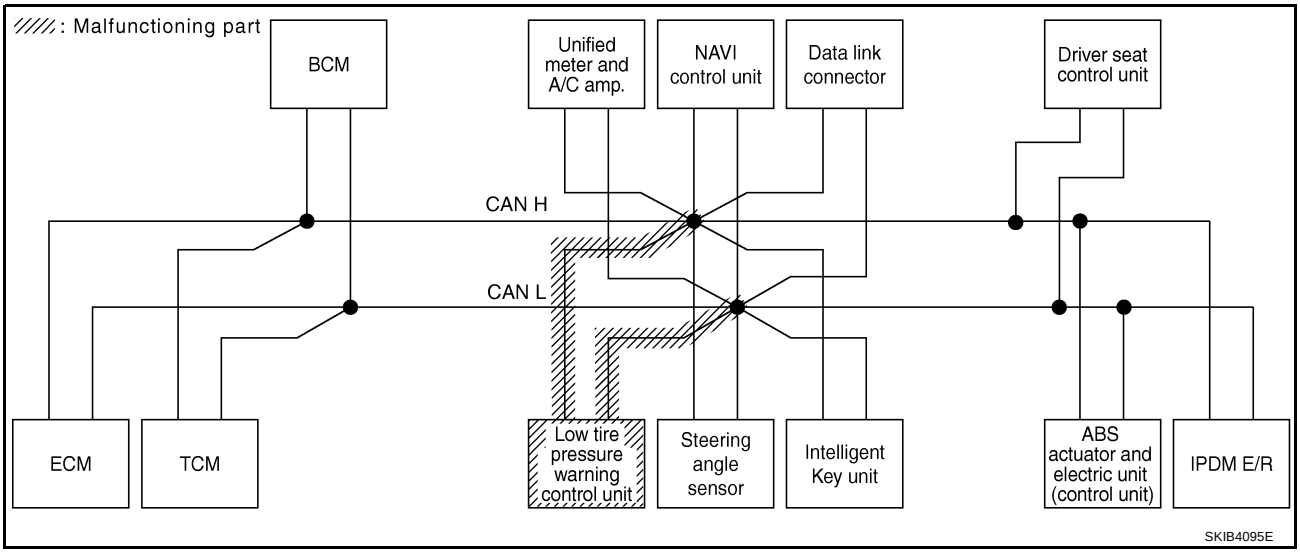


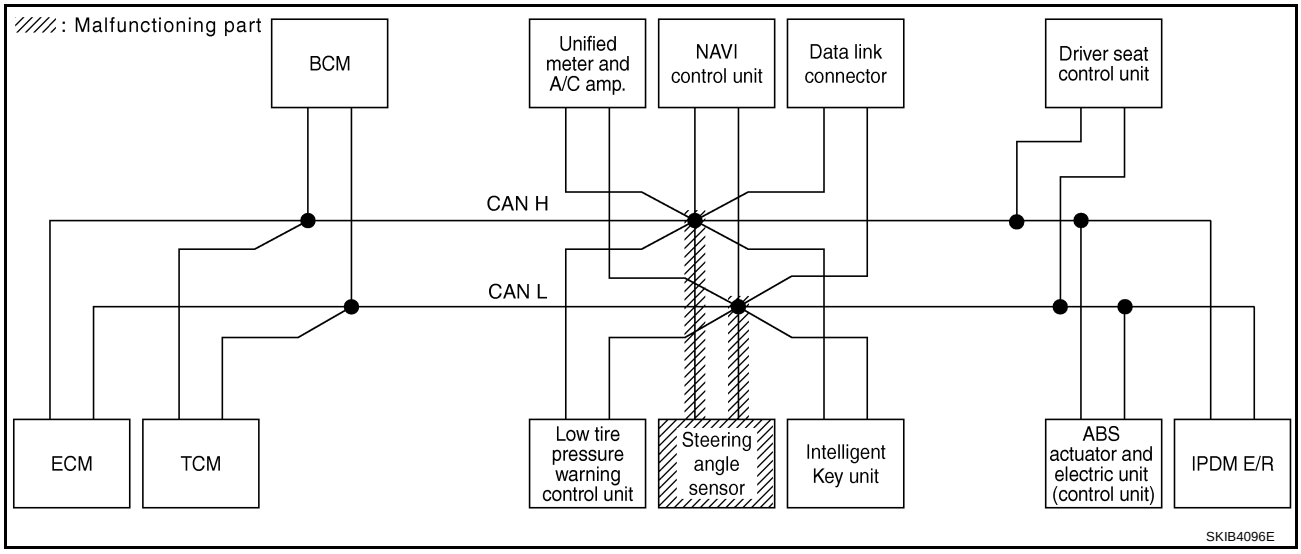
SKIB4095E

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	—	—	✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8388E



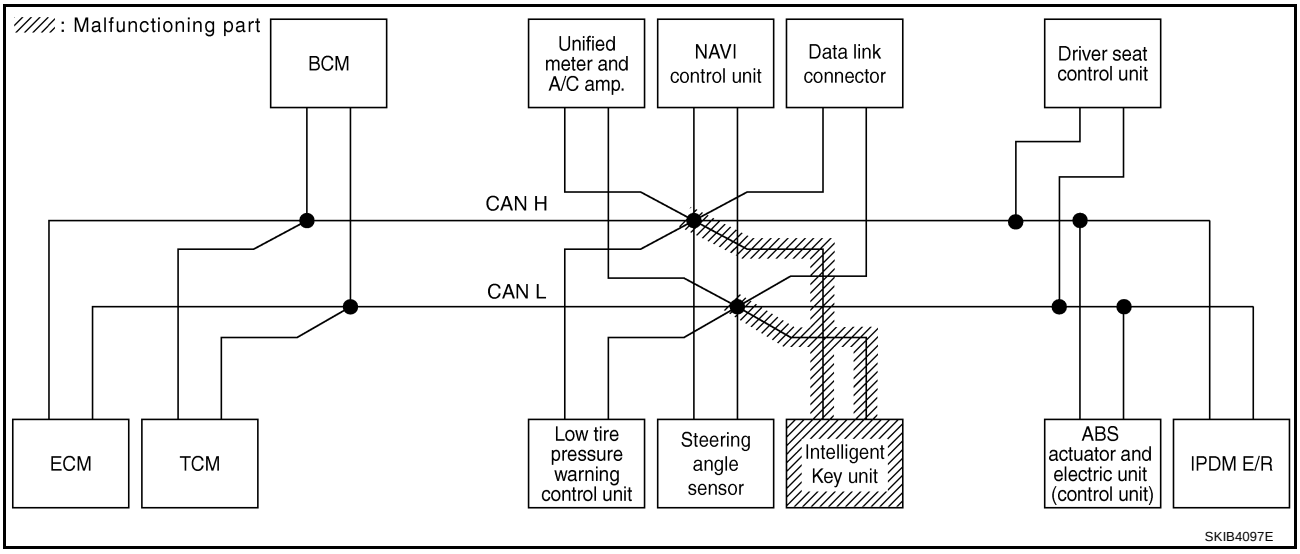
SKIB4096E

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	—	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



SKIB4097E

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)	—

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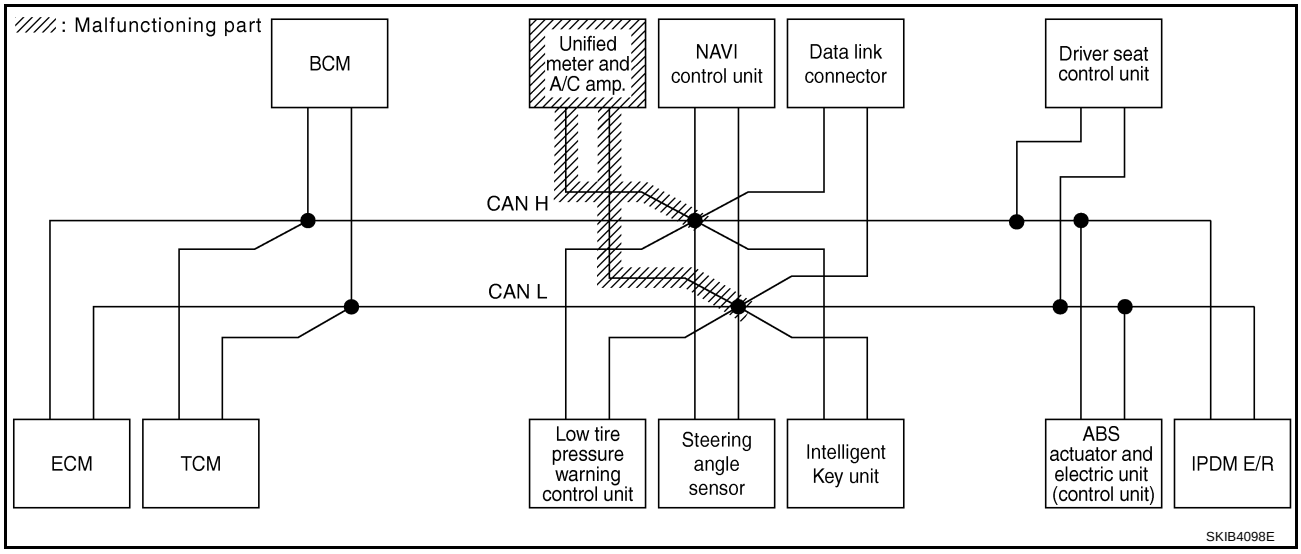

SKIB4098E

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 ✓	—	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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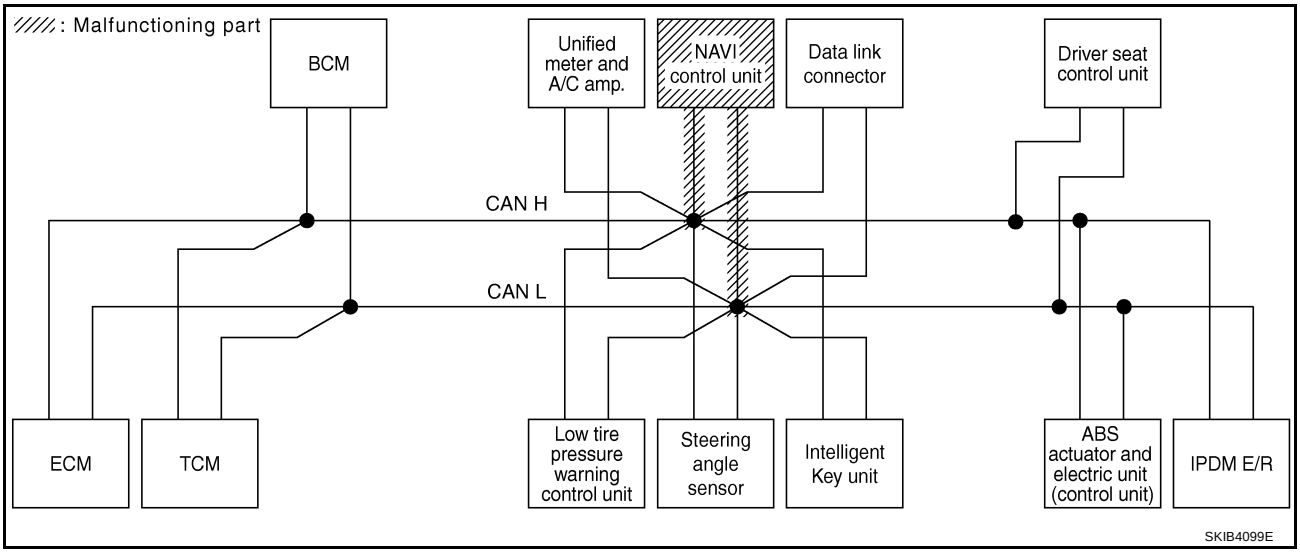

SKIB4099E

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	—	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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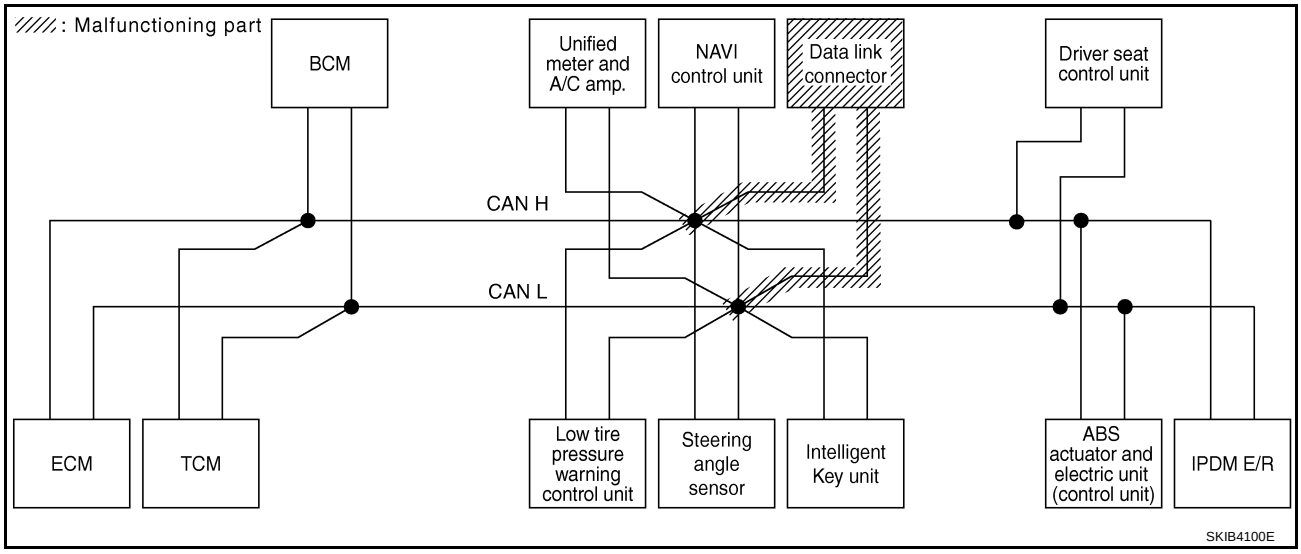

SKIB4100E

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	—	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)	—

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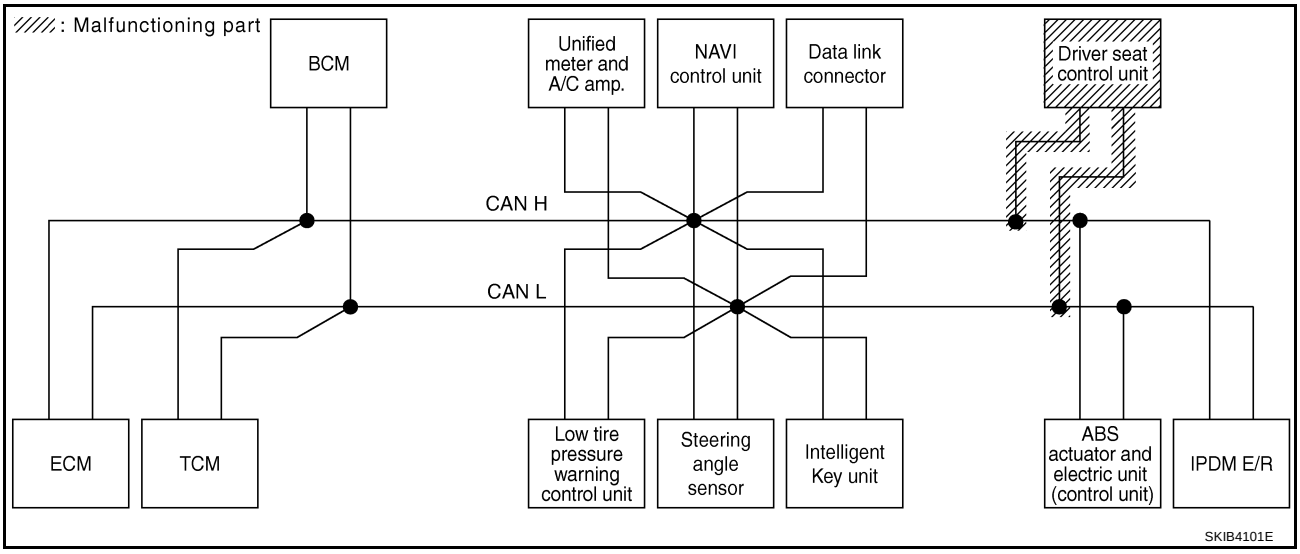

SKIB4101E

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)	—

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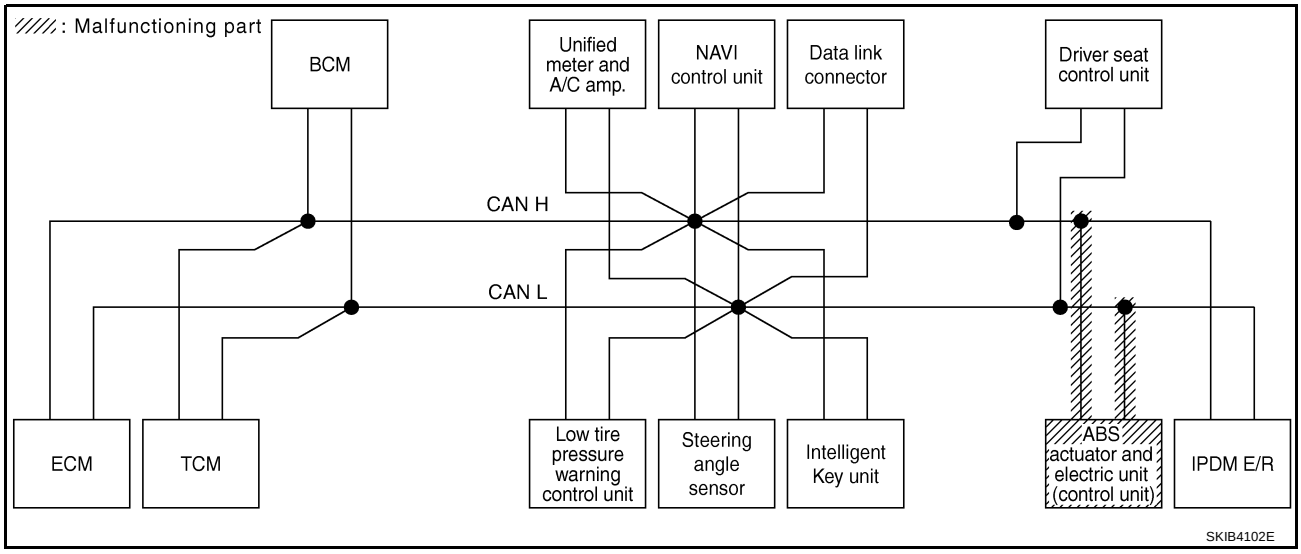


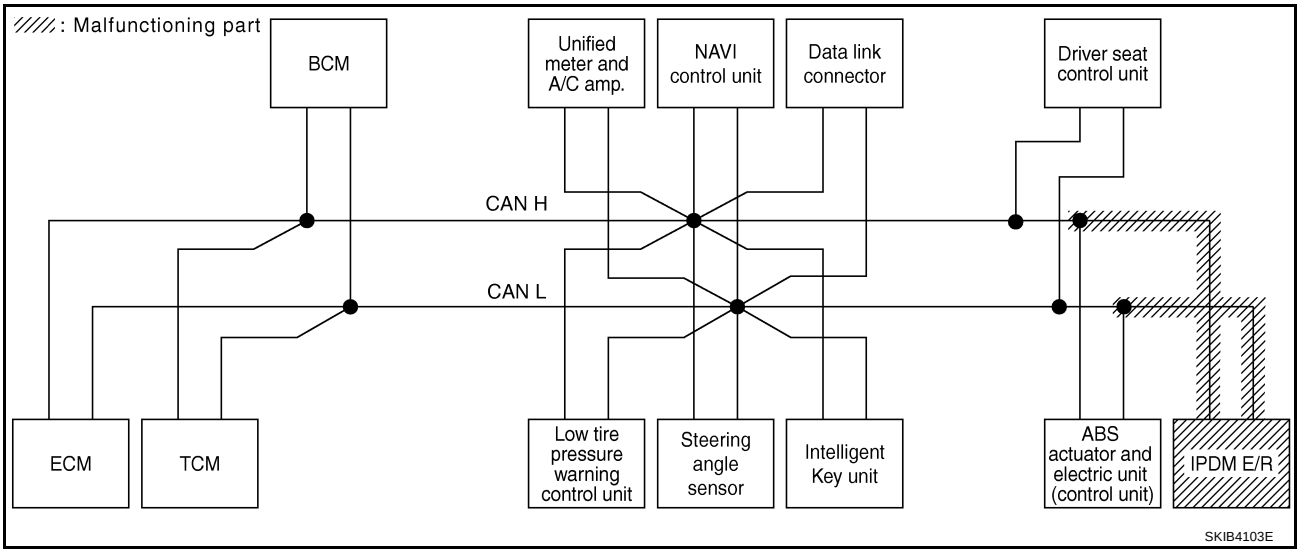
SKIB4102E

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) ✓	—

PKIB8395E



SKIB4103E

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	—	—	UNKWN	—	✓	✓	—	—	—	✓	—	✓	✓	✓	✓
A/T	—	NG	UNKWN	✓	—	—	—	—	—	✓	—	✓	—	✓	—
BCM	✓ No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	—
AIR PRESSURE MONITOR	✓ No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	✓	—
INTELLIGENT KEY	✓ No indication	—	UNKWN	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	—	—	UNKWN	✓	—
AUTO DRIVE POS.	✓ No indication	NG	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	✓	—
ABS	—	✓ NG	✓ UNKWN	✓ UNKWN	✓ UNKWN	—	—	✓ UNKWN	—	—	—	—	—	✓	—
IPDM E/R	✓ No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	✓	—

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	—	—	UNKWN	—	✓	UNKWN	—	—	—	UNKWN	—	✓	UNKWN	✓	✓
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	—	—	—	—	—	—	—	✓	—	✓ 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	✓	—	✓ 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	—	—	—	✓ 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)	—

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	—	—	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

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

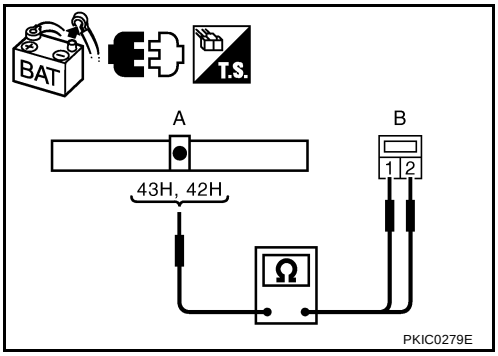
OK or NG

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



PKIC0279E

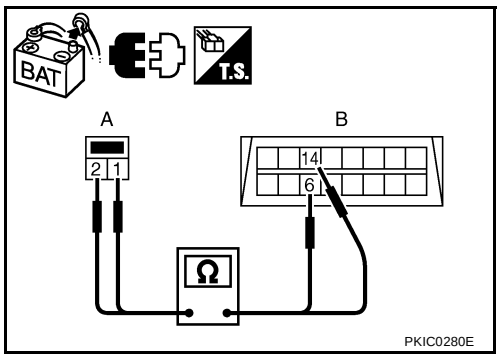
OK or NG

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

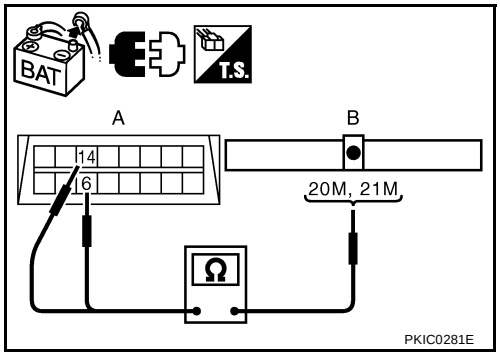
OK >> GO TO 2.

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

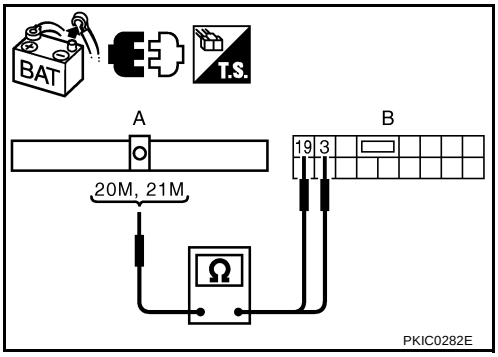
OK >> GO TO 3.

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

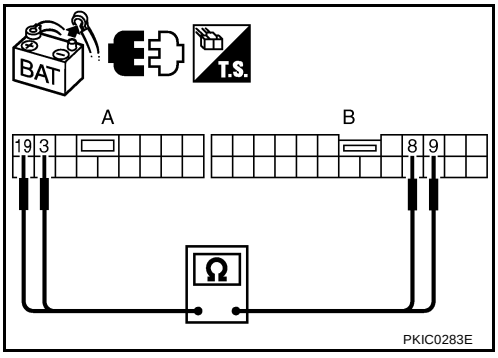
OK >> GO TO 2.

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

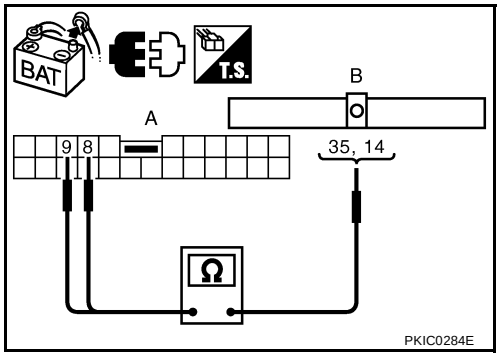
OK >> GO TO 3.

NG >> Repair harness.

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

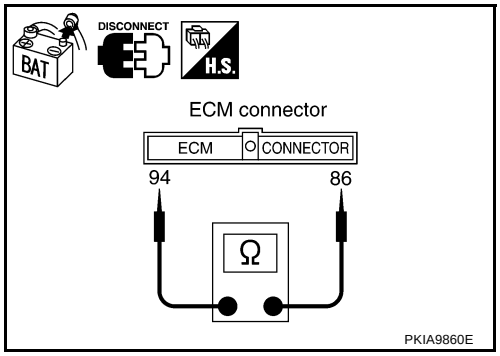
OK >> GO TO 2.

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

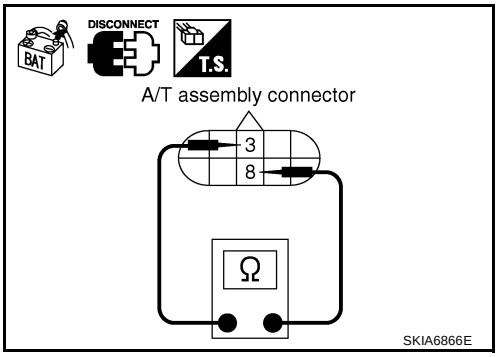
OK >> GO TO 2.

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

NKS003YR

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).

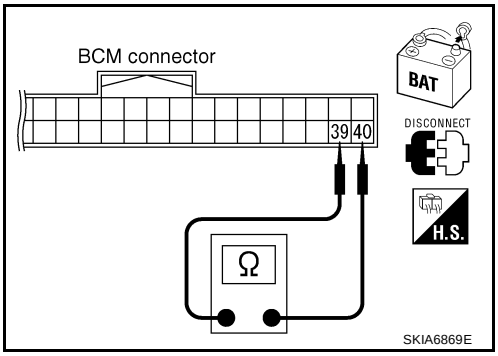
OK or NG

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

NKS003YS

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).

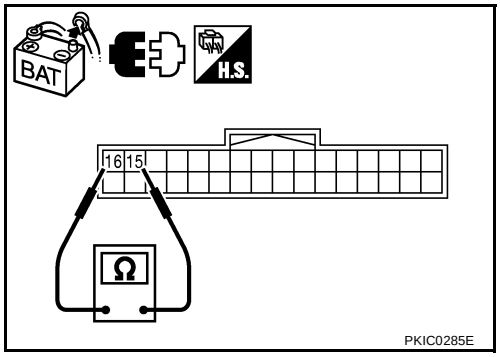
OK or NG

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

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).

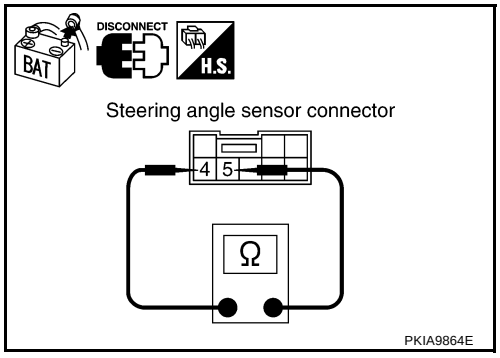
OK or NG

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.)
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).

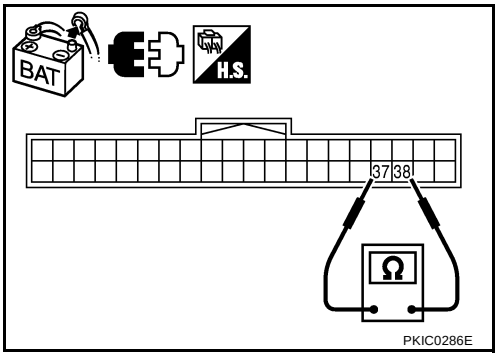
OK or NG

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.)
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

NKS003YV

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).

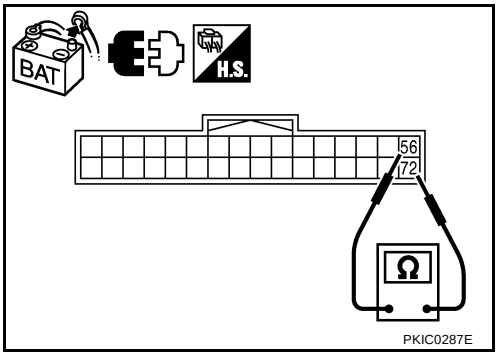
OK or NG

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

NKS003YW

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

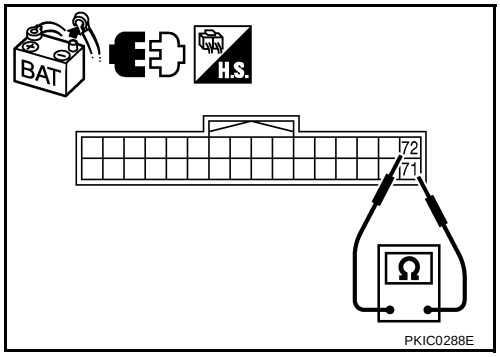
OK or NG

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

NKS003YX

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).

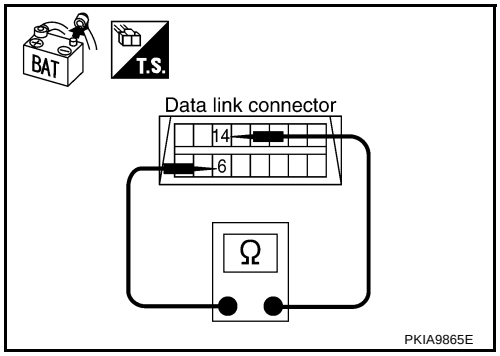
OK or NG

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

NKS003YY

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

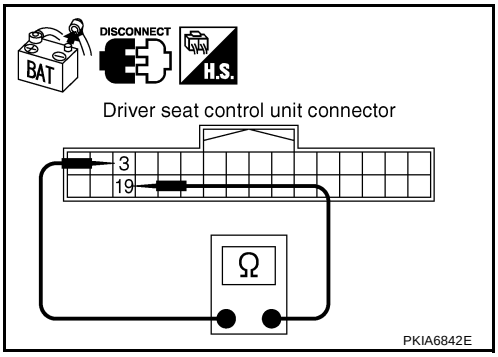
OK or NG

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).

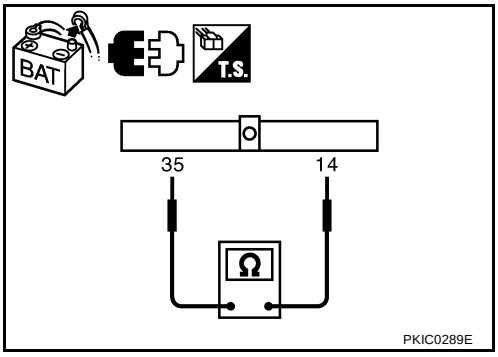
OK or NG

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

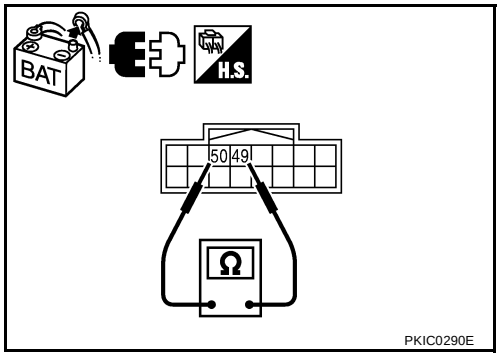
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

OK or NG

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

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

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

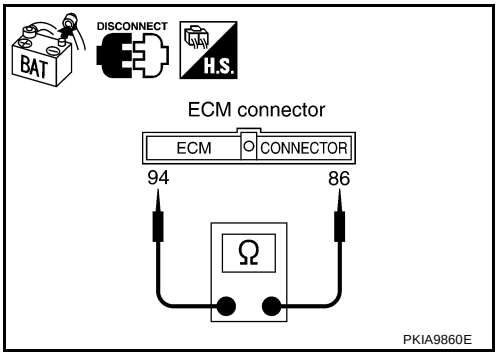
OK >> GO TO 2.
NG >> Repair terminal or connector.

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

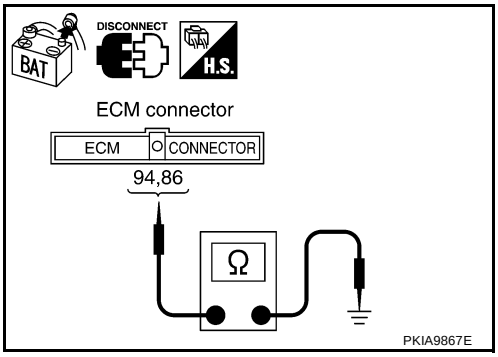
OK >> GO TO 3.

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		Continuity
M71	94	Ground	No
	86		No



OK or NG

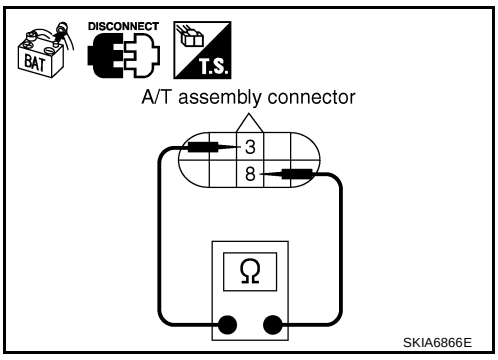
OK >> GO TO 4.

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 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

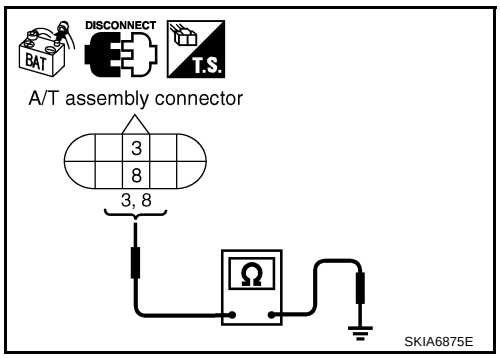
OK >> GO TO 5.

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

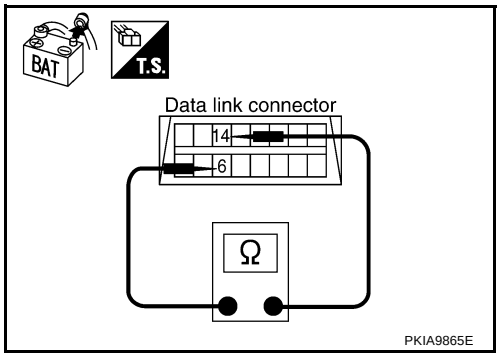
OK >> GO TO 6.

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

6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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.

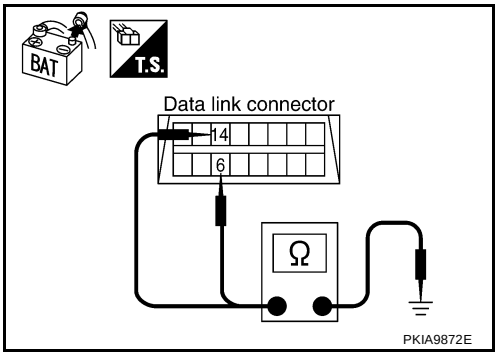
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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		No
	14		No



OK or NG

OK >> GO TO 8.

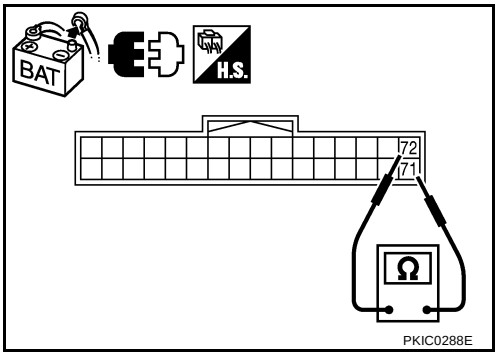
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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		Continuity
M210	71	72	No



OK or NG

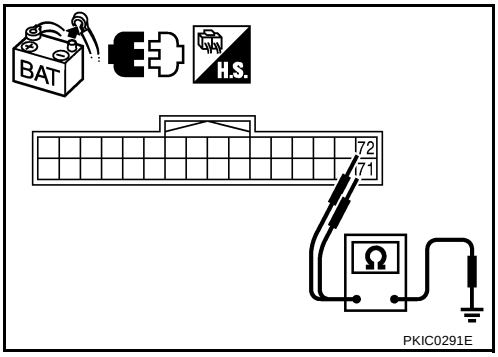
OK >> GO TO 9.

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		No
	72		No



OK or NG

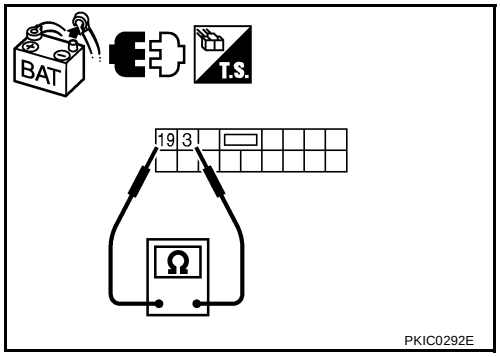
OK >> GO TO 10.

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.

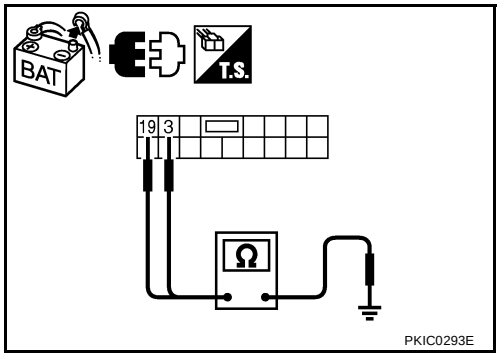
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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		Continuity
B15	3	Ground	No
	19		No



OK or NG

OK >> GO TO 12.

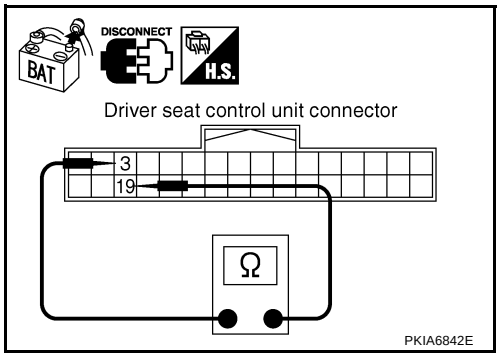
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

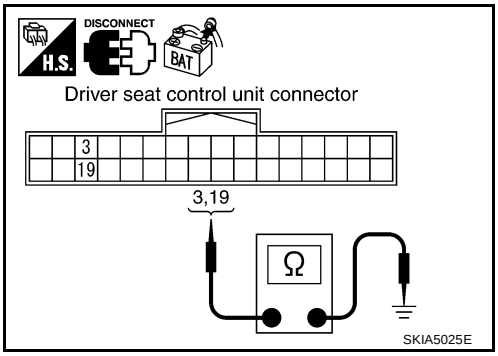
OK >> GO TO 13.

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

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

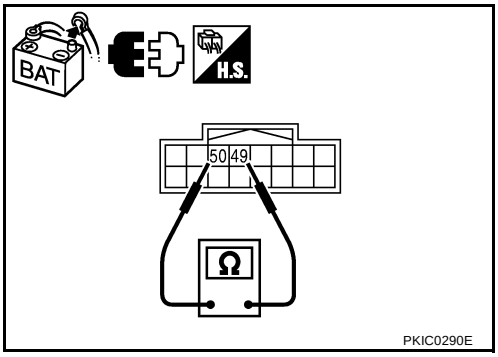
OK >> GO TO 14.

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.

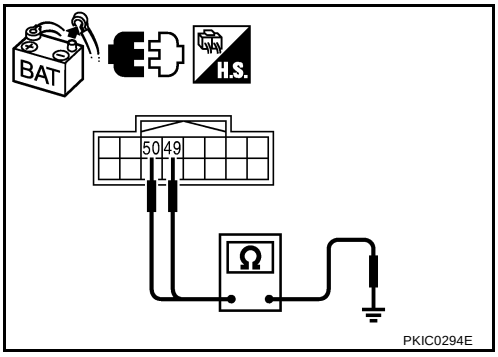
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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)

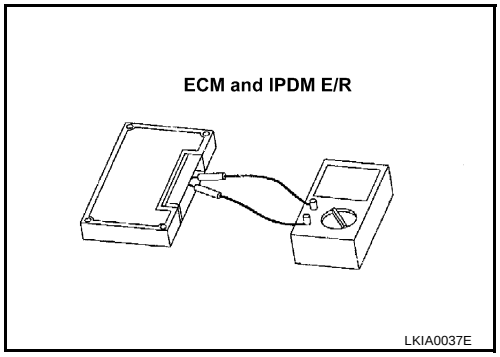
16. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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”" .

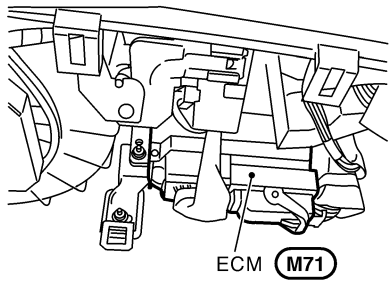
CAN SYSTEM (TYPE 3)

PFP:23710

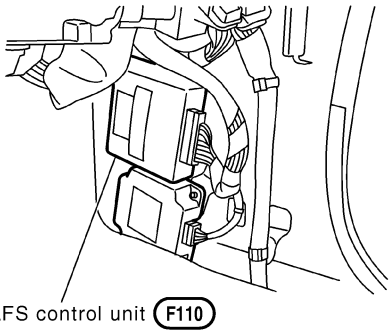
Component Parts and Harness Connector Location

NKS003Z3

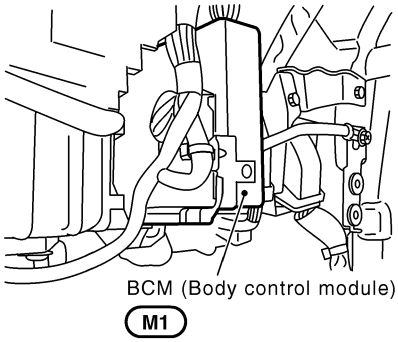
Passenger side view with instrument lower cover removed



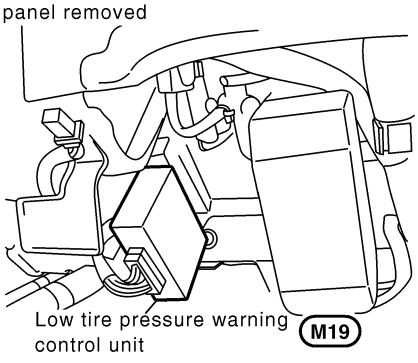
Behind dash side lower RH finisher



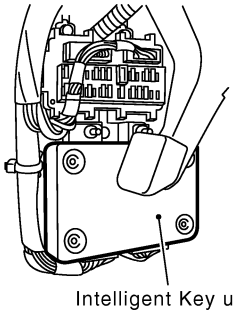
Passenger side view with instrument lower cover removed



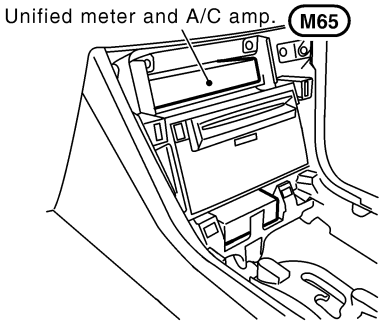
Driver side view with instrument lower panel removed



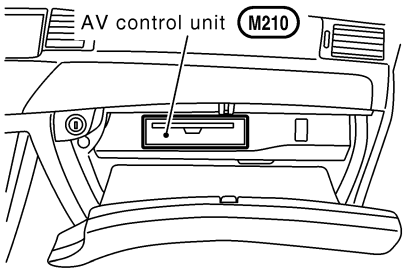
Behind dash side lower LH finisher



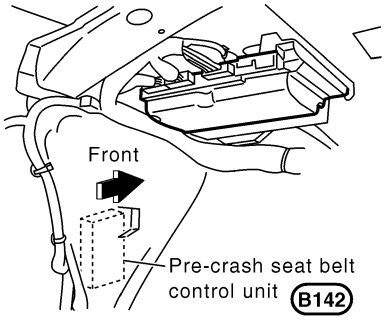
View with cluster lid C removed



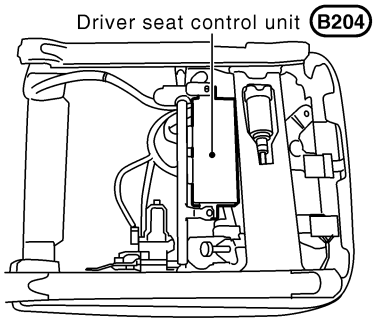
Inside of glove box



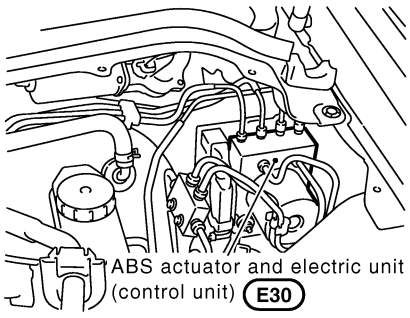
View with trunk side LH finisher and front finisher removed



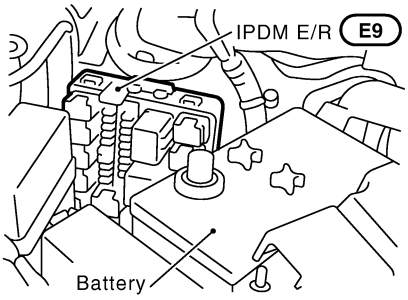
Under driver's seat



Rear left of engine room



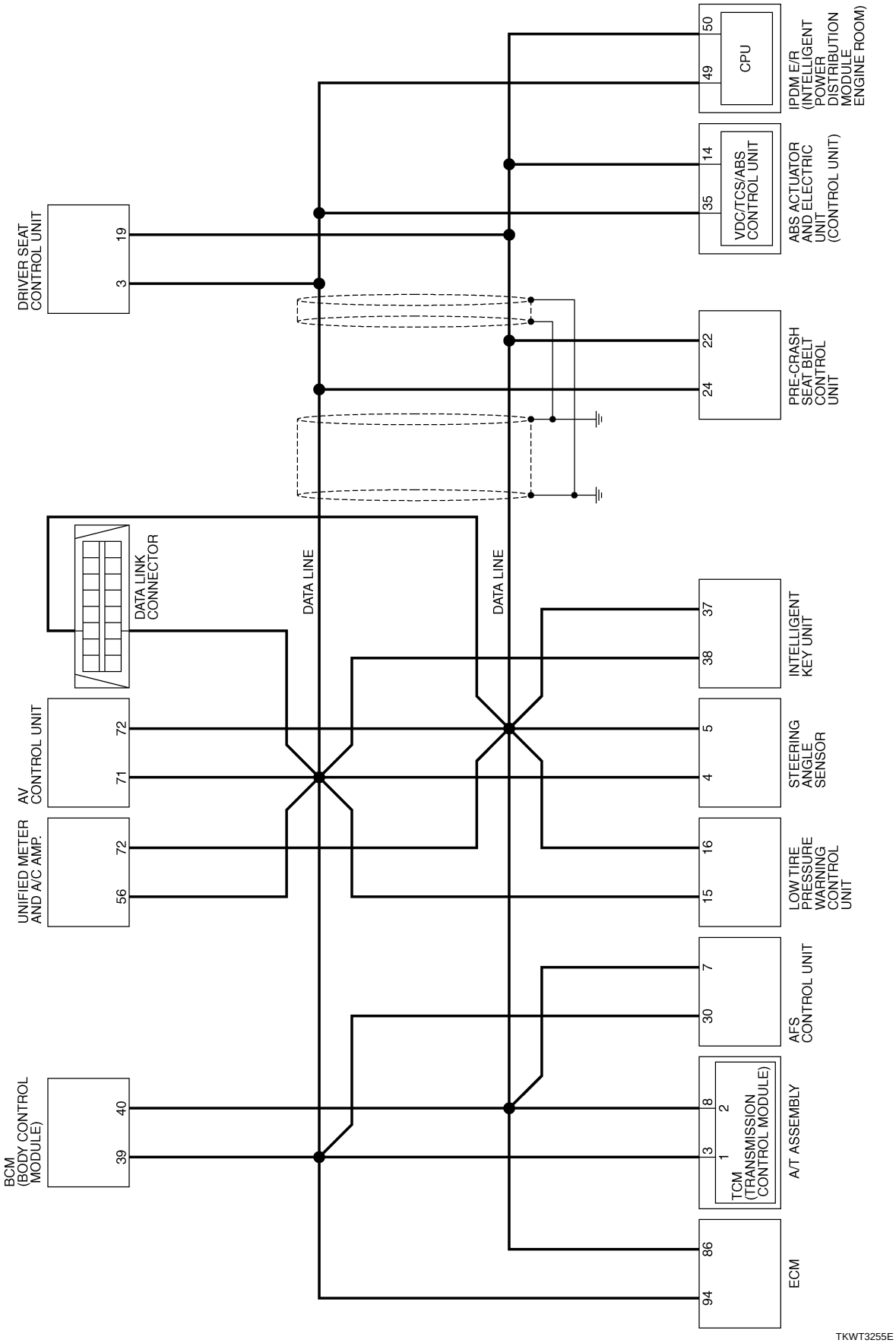
View with cowl top cover removed



PKIC0601E

Schematic

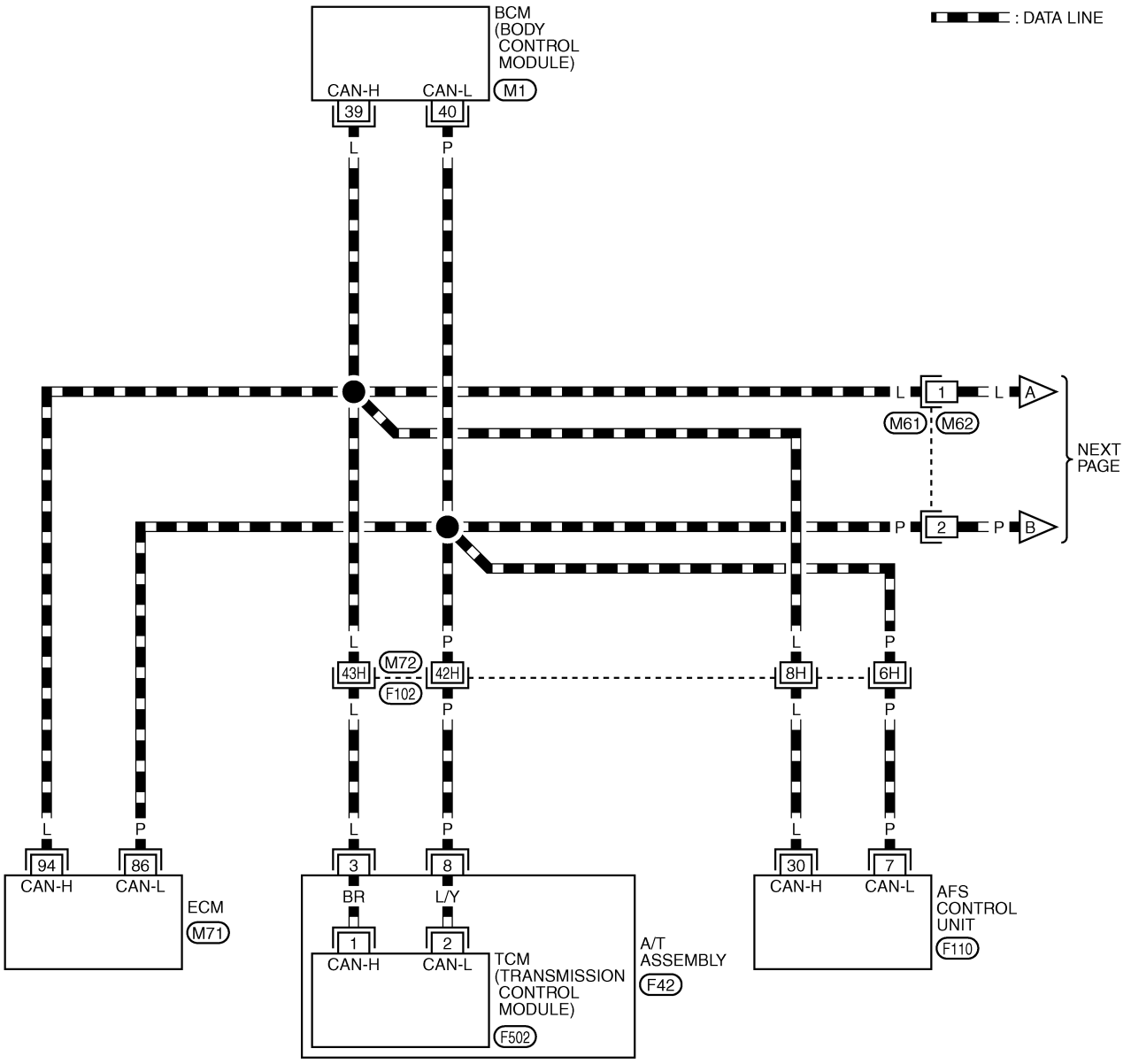
NKS003Z4

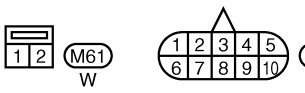


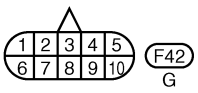
Wiring Diagram — CAN —

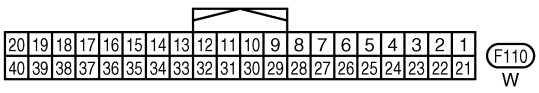
NKS003Z5

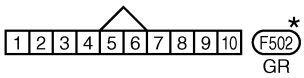
LAN-CAN-07











REFER TO THE FOLLOWING.

F102 -SUPER MULTIPLE JUNCTION (SMJ)

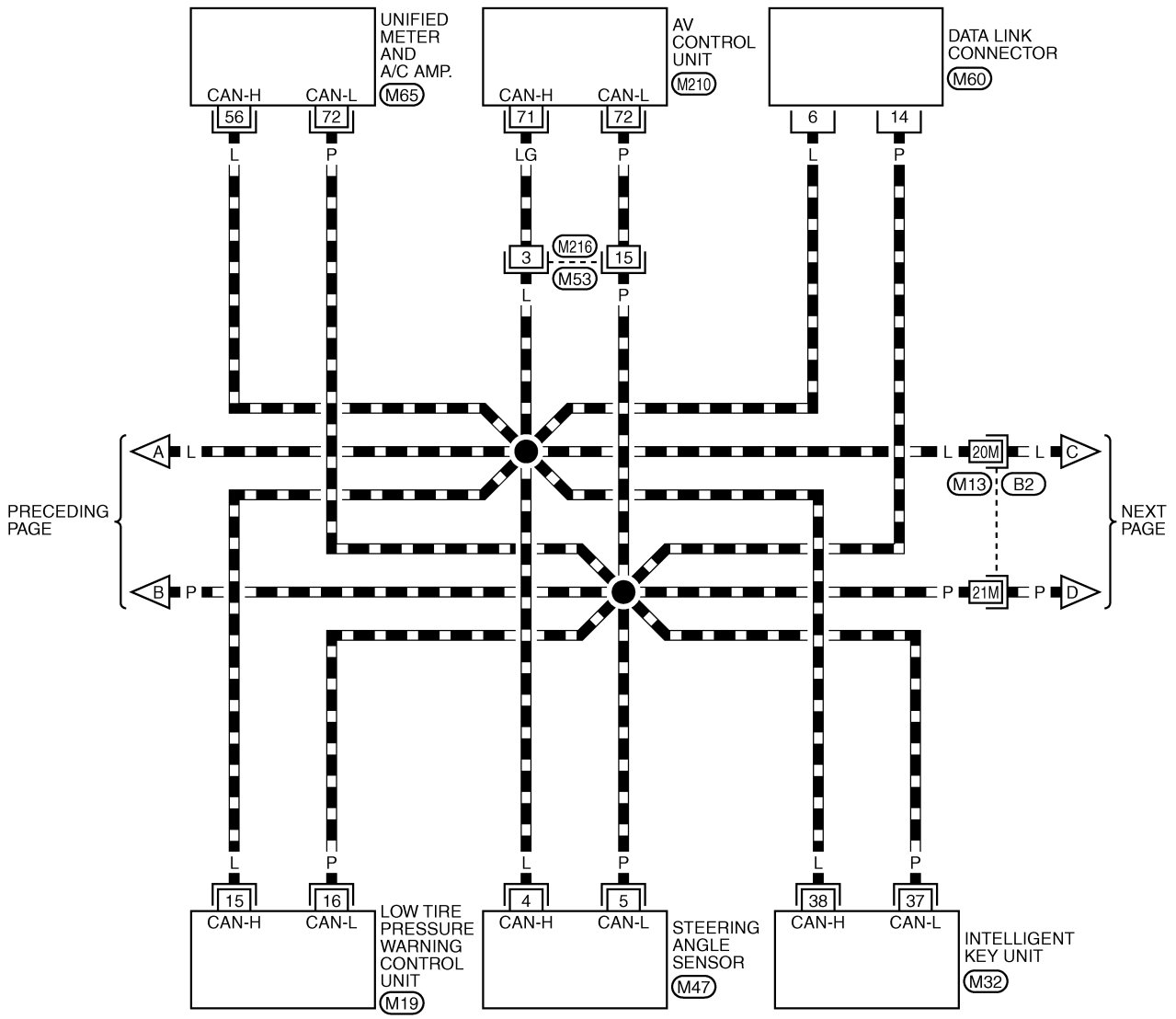
M1, M71 -ELECTRICAL UNITS

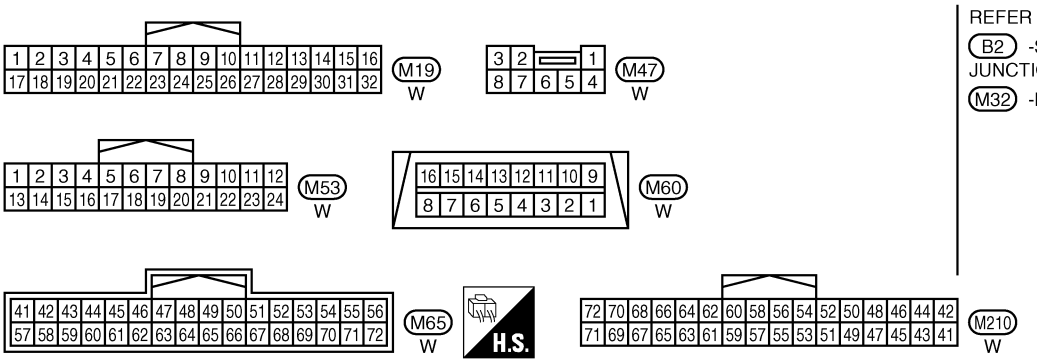
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3256E

LAN-CAN-08

: DATA LINE





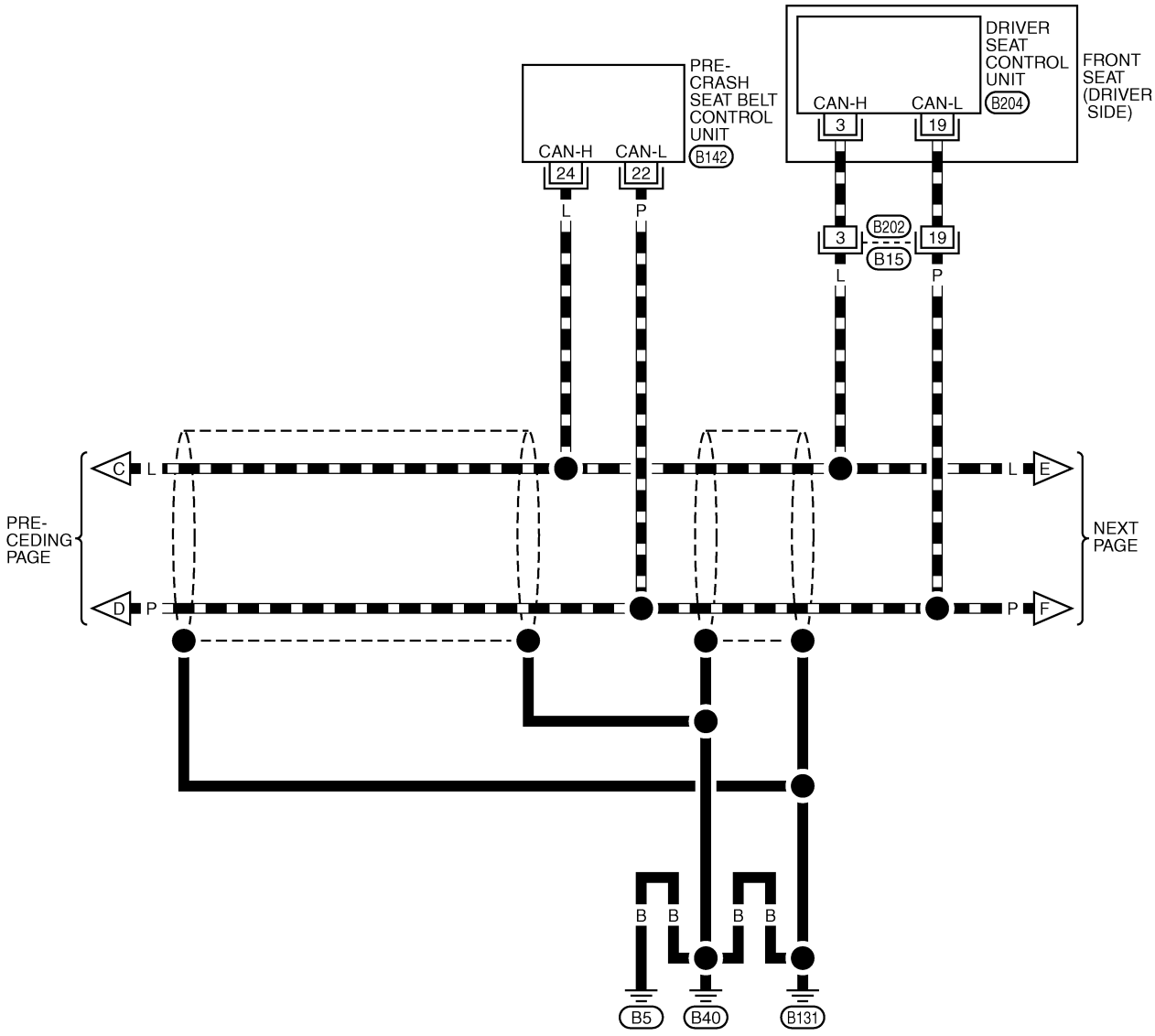
REFER TO THE FOLLOWING.

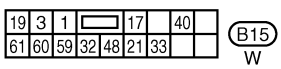
B2 -SUPER MULTIPLE JUNCTION (SMJ)

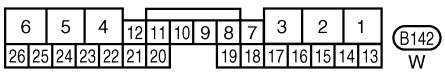
M32 -ELECTRICAL UNITS

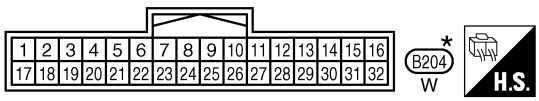
TKWT3257E

LAN-CAN-09







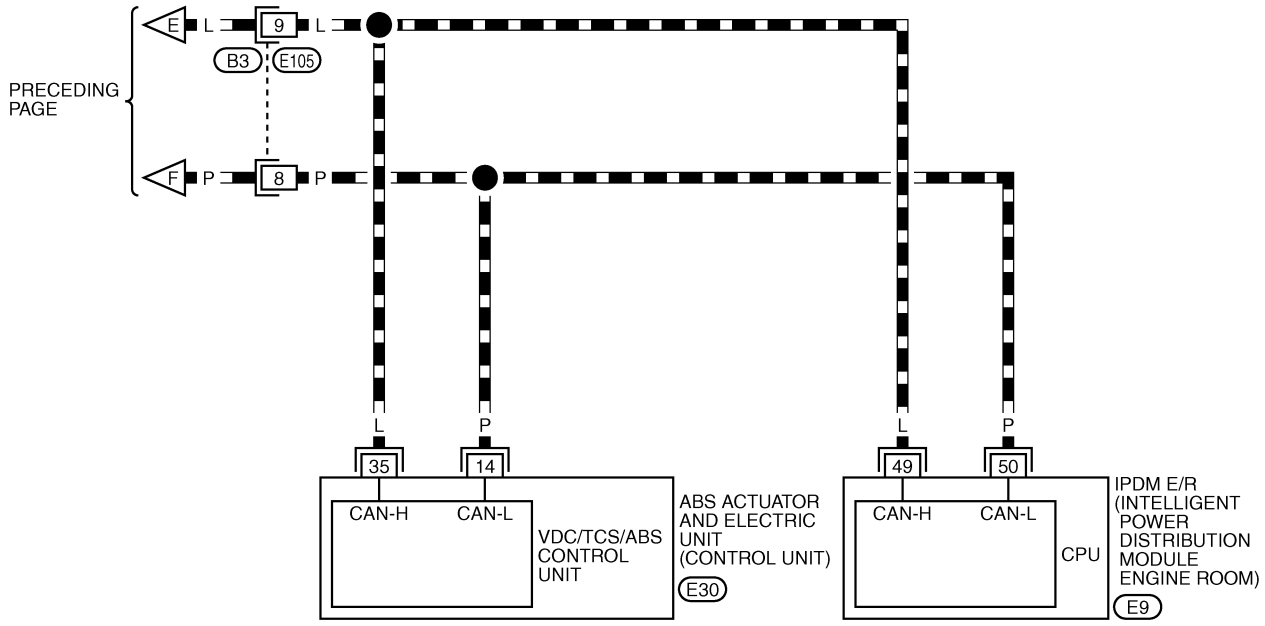


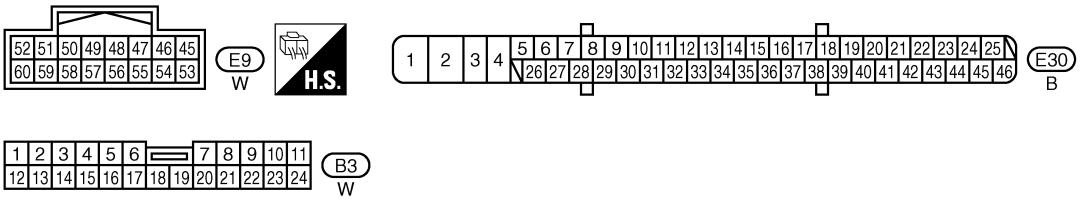
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3258E

LAN-CAN-10

: DATA LINE





TKWT3259E

Check Sheet

NKS003Z6

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

Check sheet table

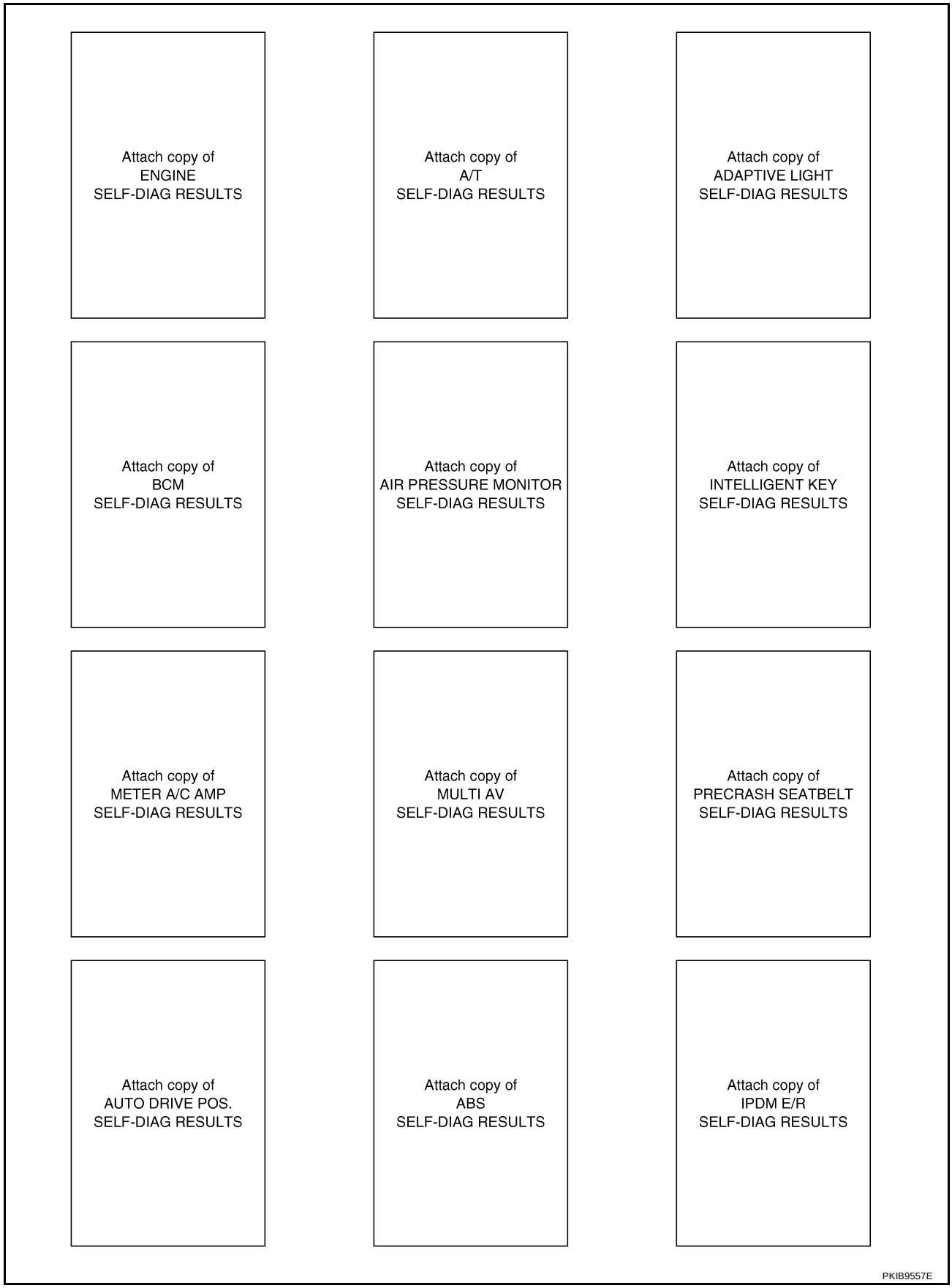
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (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


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
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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.
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ABS
SELF-DIAG RESULTS
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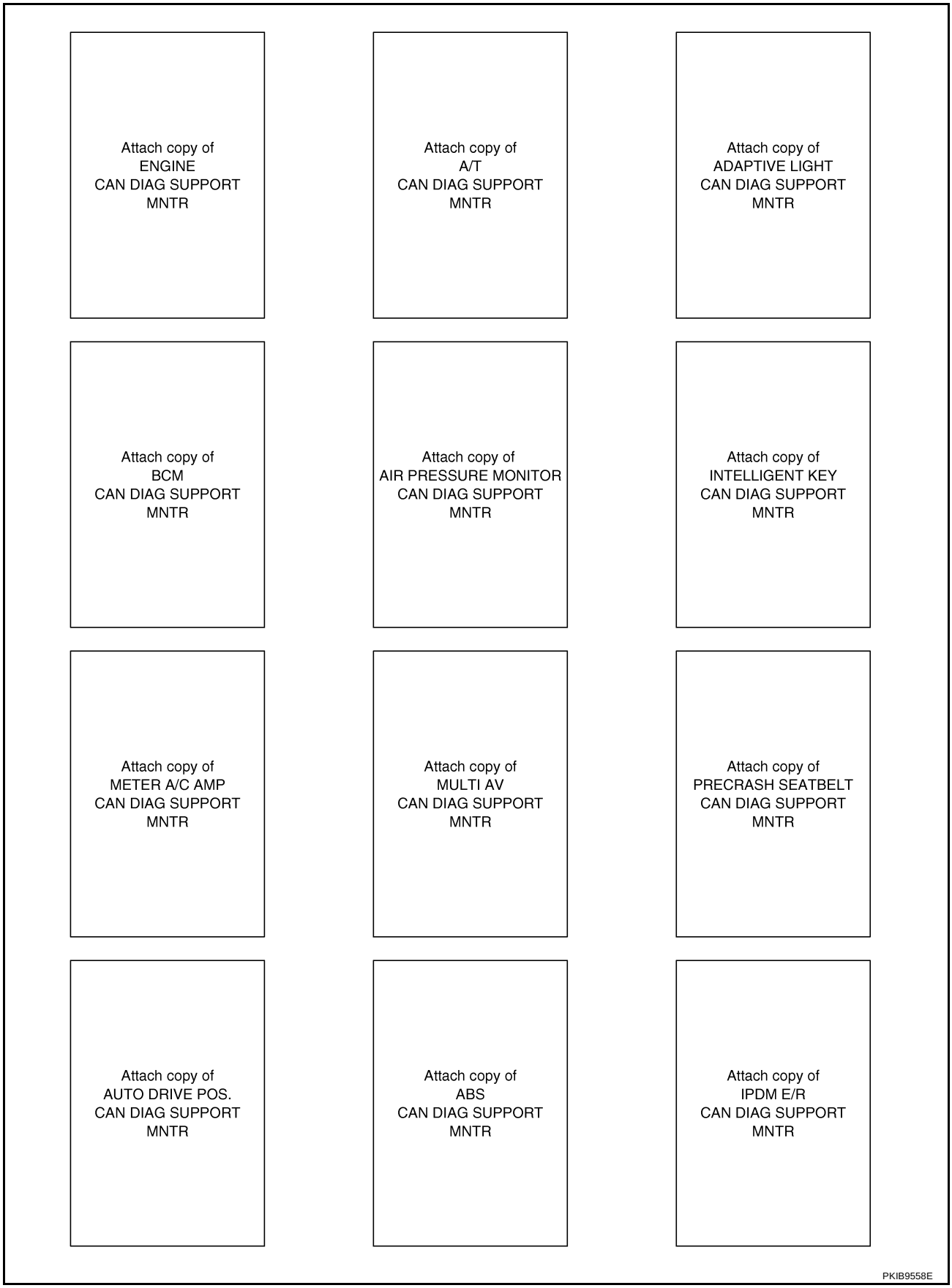
IPDM E/R
SELF-DIAG RESULTS
PKIB9557E


Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR
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MNTR
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PRECRASH SEATBELT
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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

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

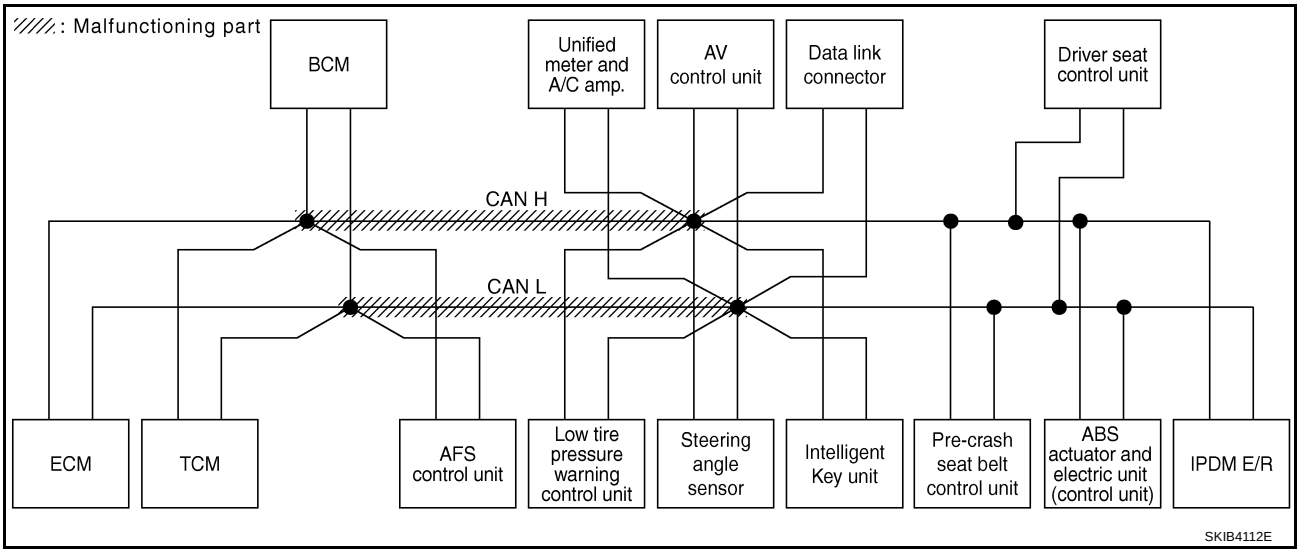
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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		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	—	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	—	CAN COMM CIRCUIT (U1000) ✓	—
MULTI AV	No indication	—	UNKWN	✓	—	—	✓	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
PRECRASH SEATBELT	No indication	—	—	✓	✓	—	—	—	—	—	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	✓	—	—	✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIB8400E

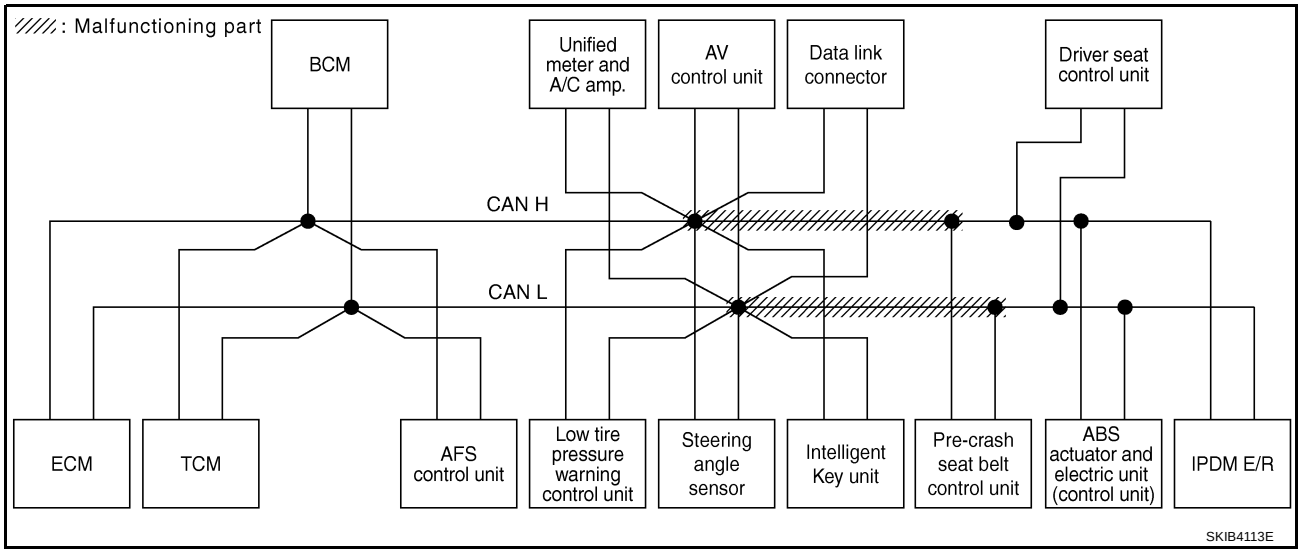


Case 2

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												
				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) ✓	—

PKIB8401E

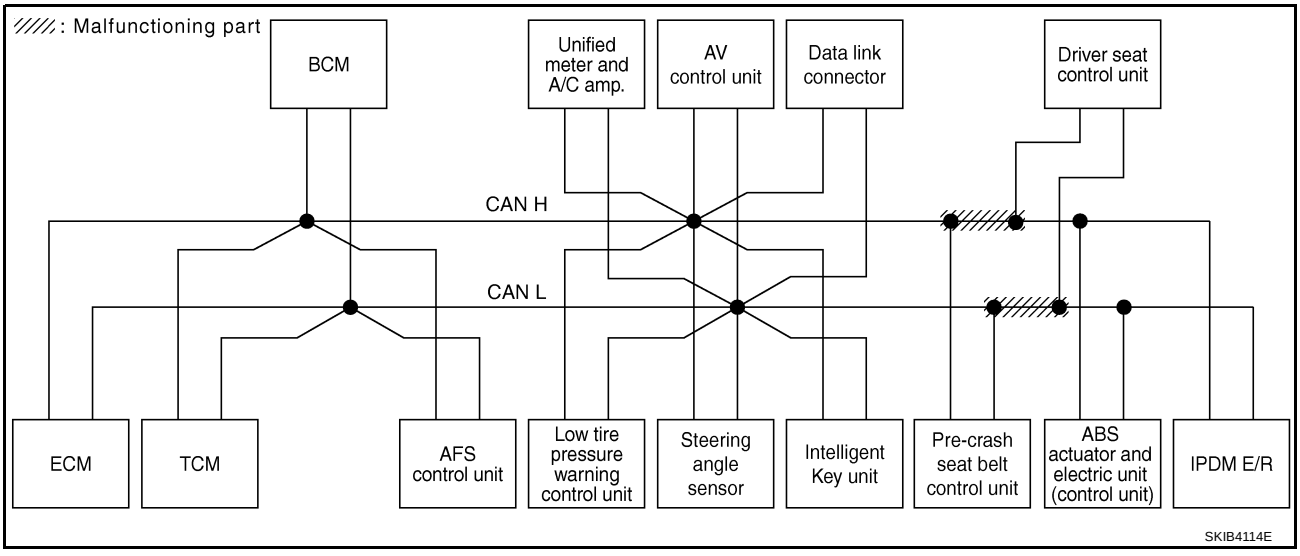


Case 3

Check harness between pre-crash seat belt control unit and driver seat control unit. Refer to LAN-160, "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	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

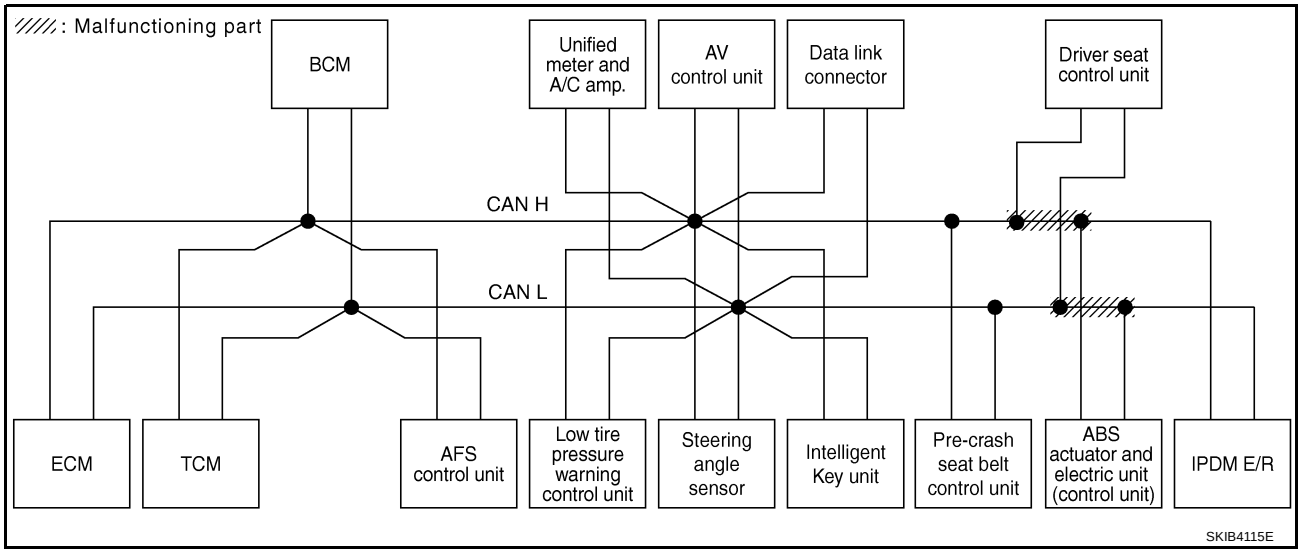


Case 4

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to LAN-160, "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	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)	—

PKIB8403E

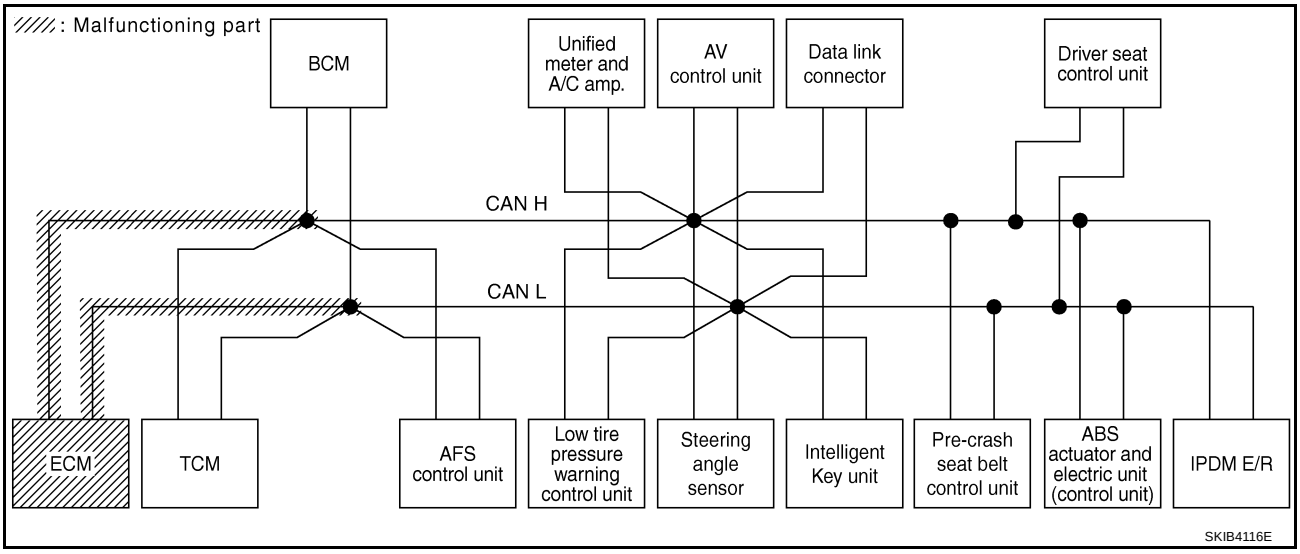


Case 5

Check ECM circuit. Refer to LAN-161, "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 (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)	—

PKIB8404E

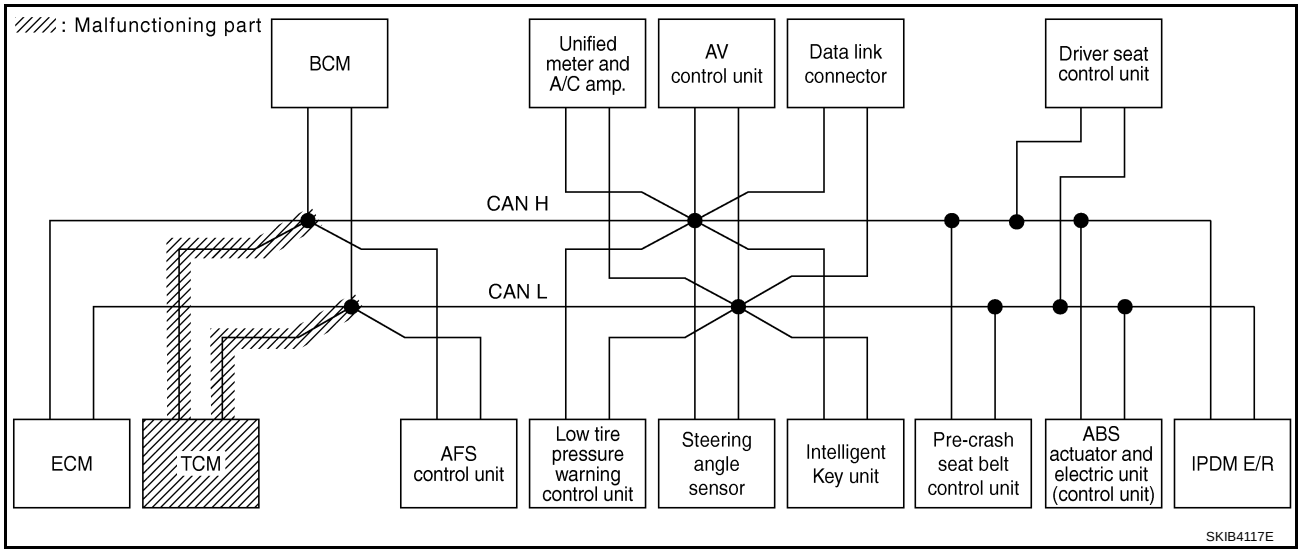


Case 6

Check TCM circuit. Refer to LAN-162, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
ENGINE	—	—	UNKWN	—	✓	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
A/T	—	NG	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)	—
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	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8405E

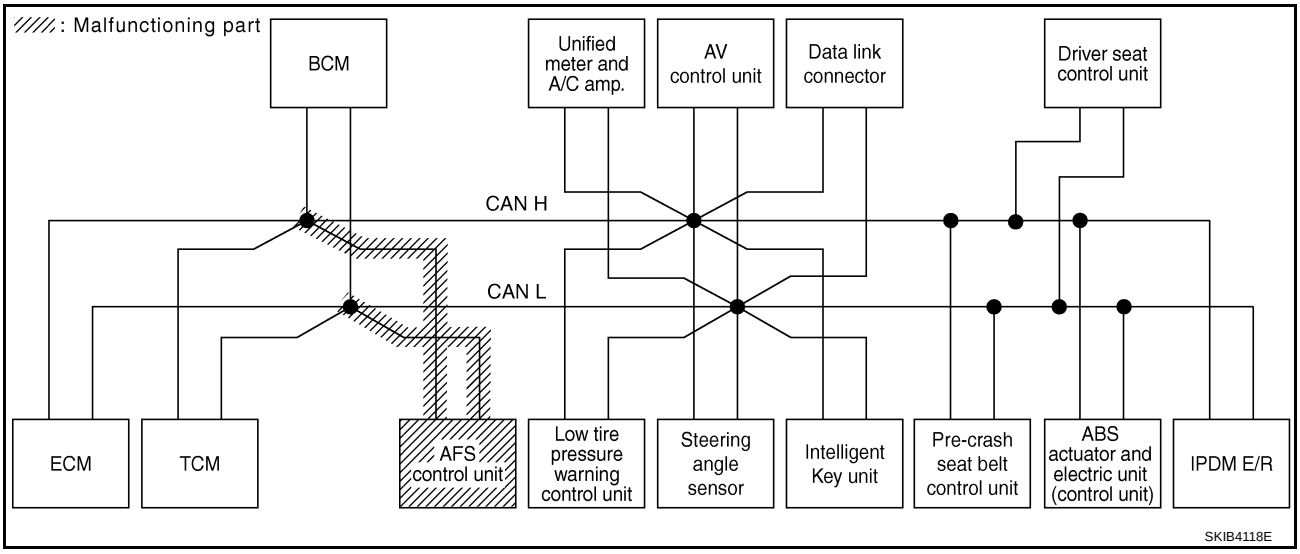


Case 7

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	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



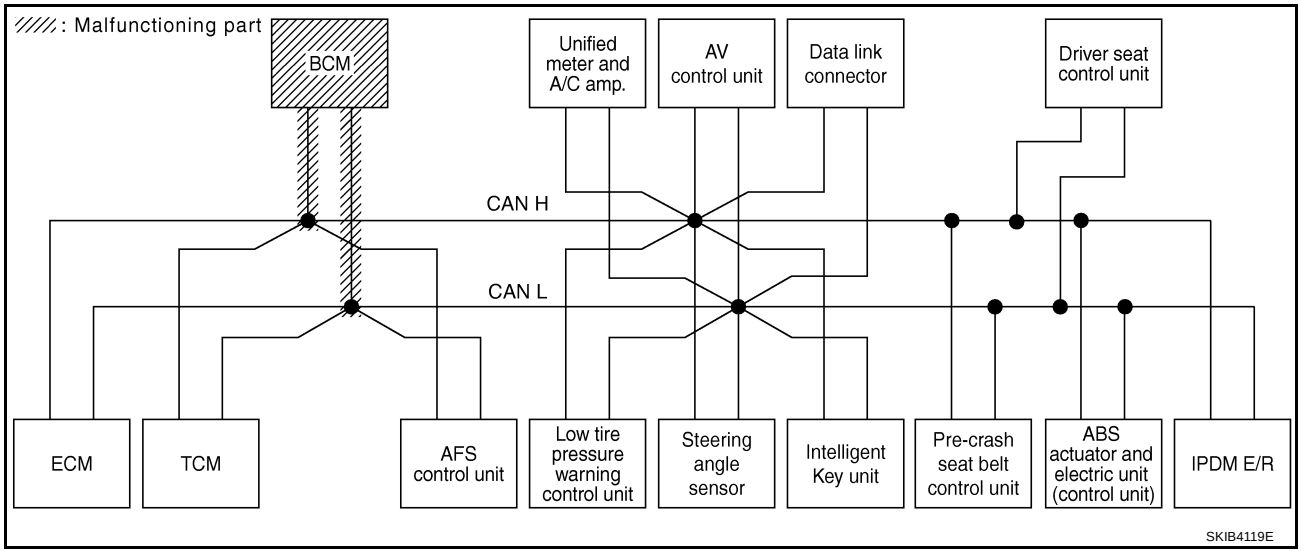
SKIB4118E

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	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

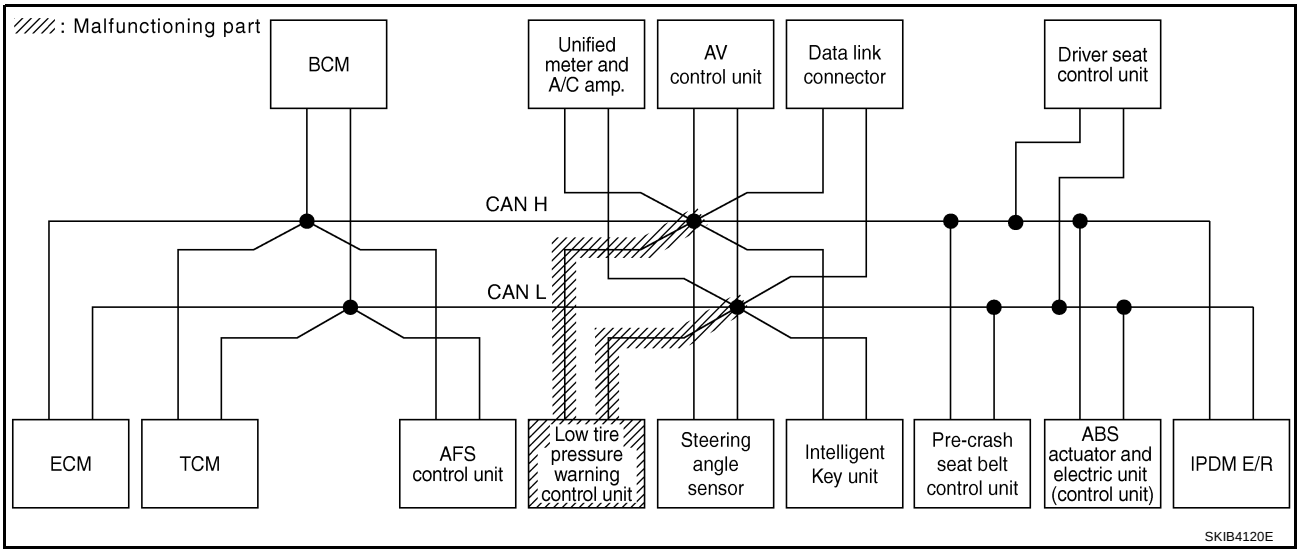


Case 9

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	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



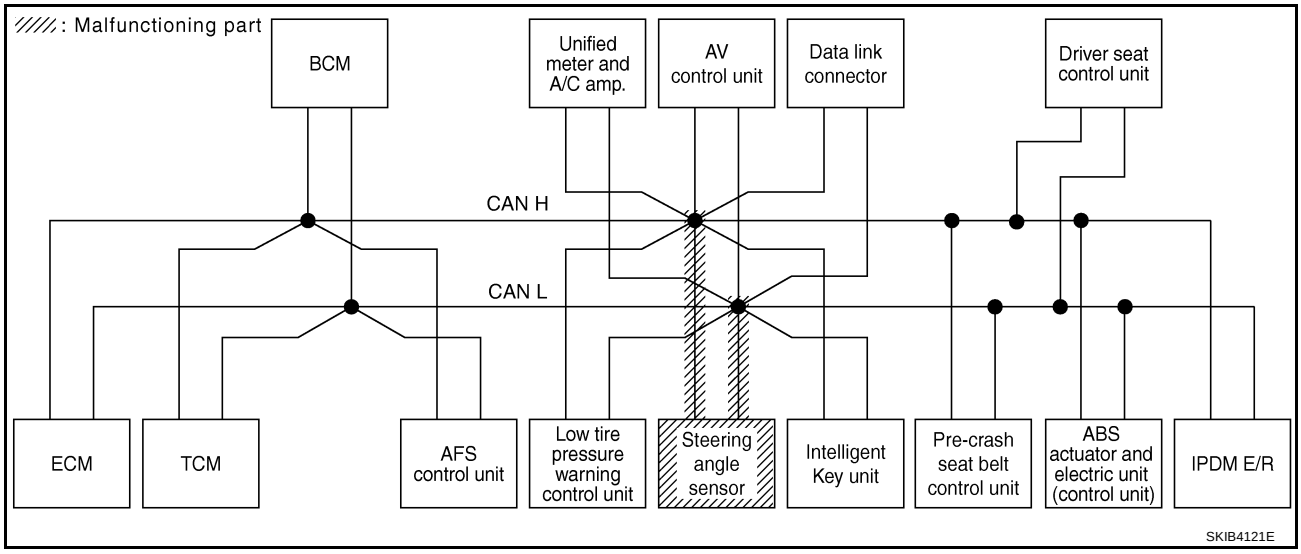
SKIB4120E

Case 10

Check steering angle sensor circuit. Refer to LAN-164, "Steering Angle Sensor Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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

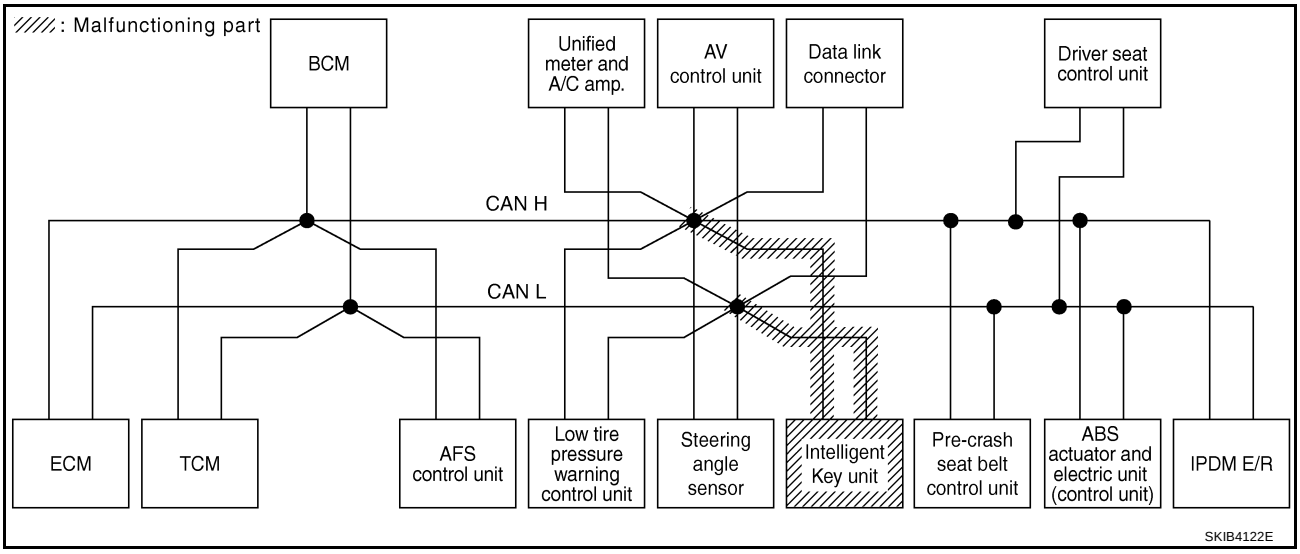


Case 11

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

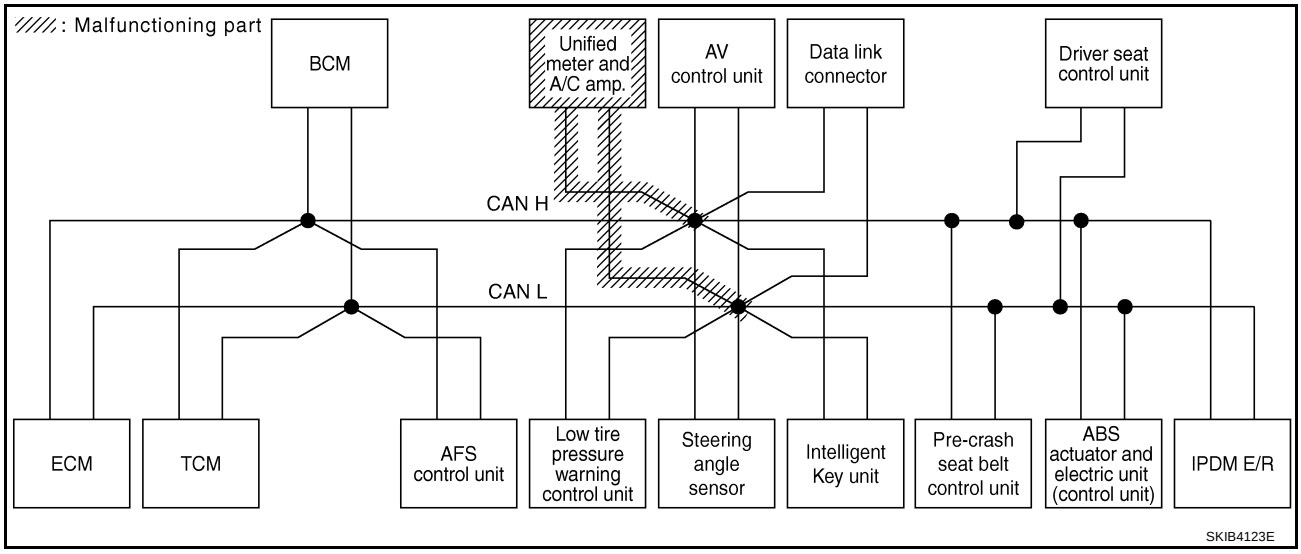


Case 12

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	—	—	—	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)	—

PKIB8411E



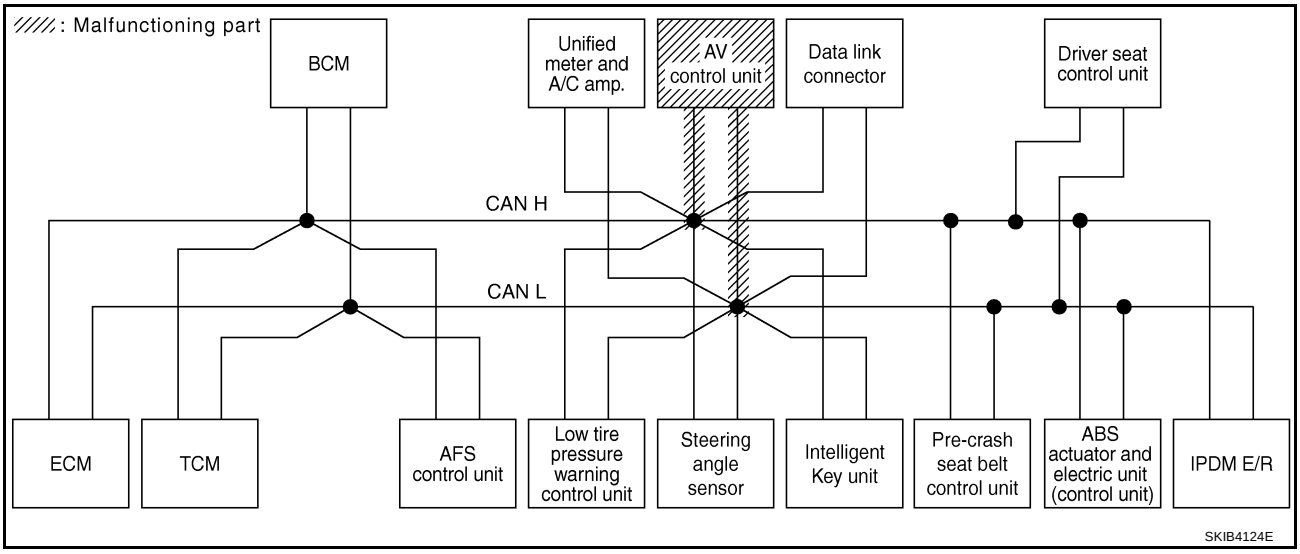
SKIB4123E

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												
				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

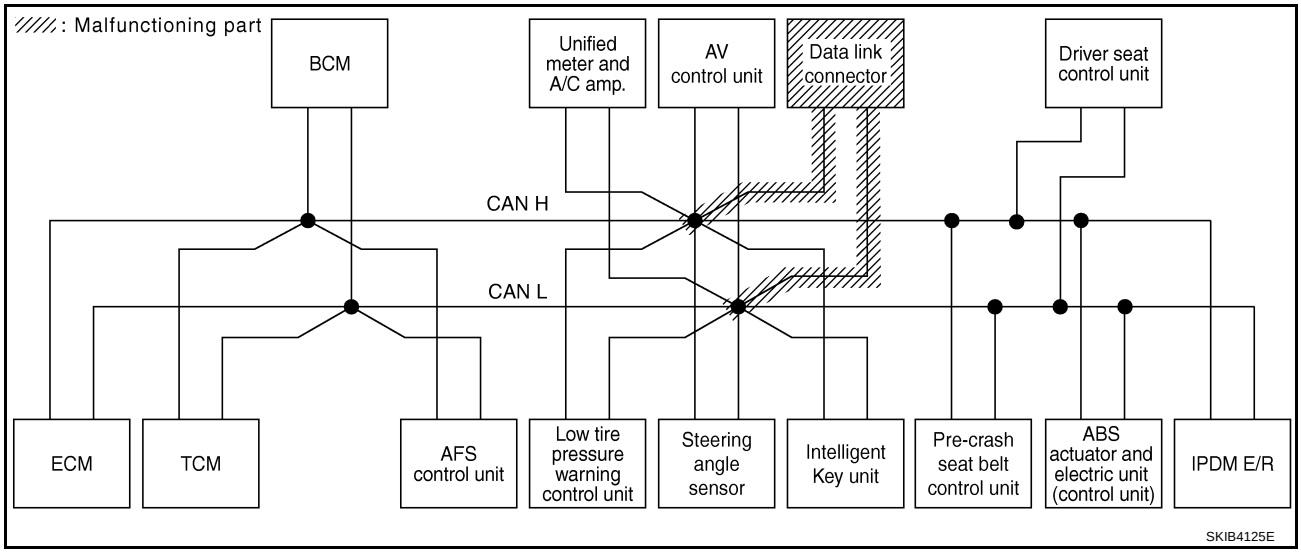


Case 14

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	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

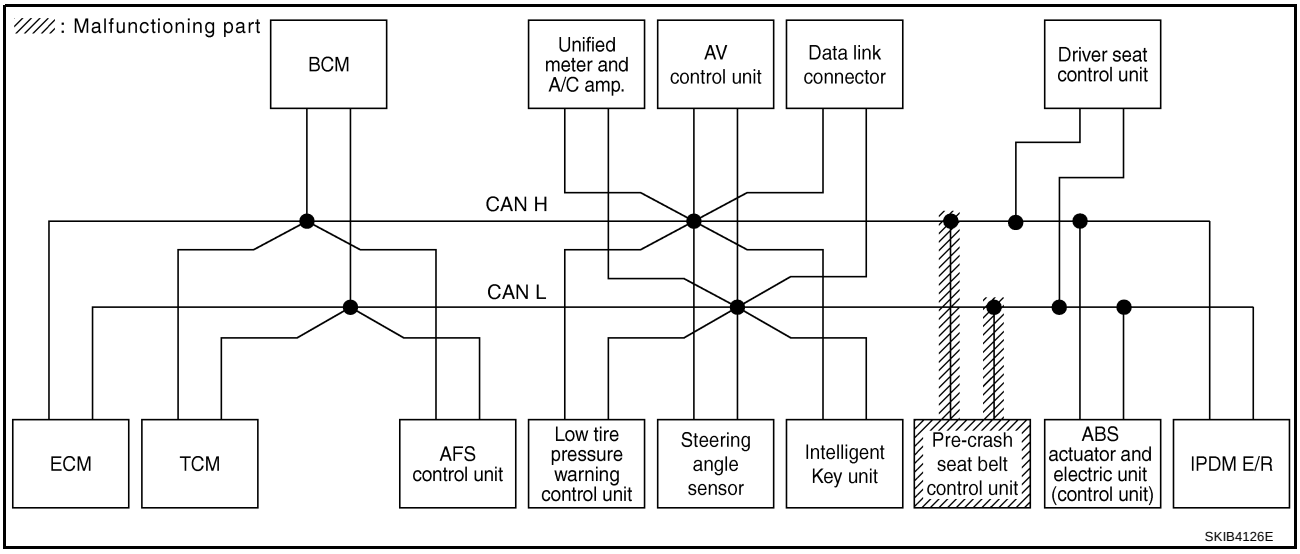


Case 15

Check pre-crash seat belt control unit circuit. Refer to LAN-166, "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	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



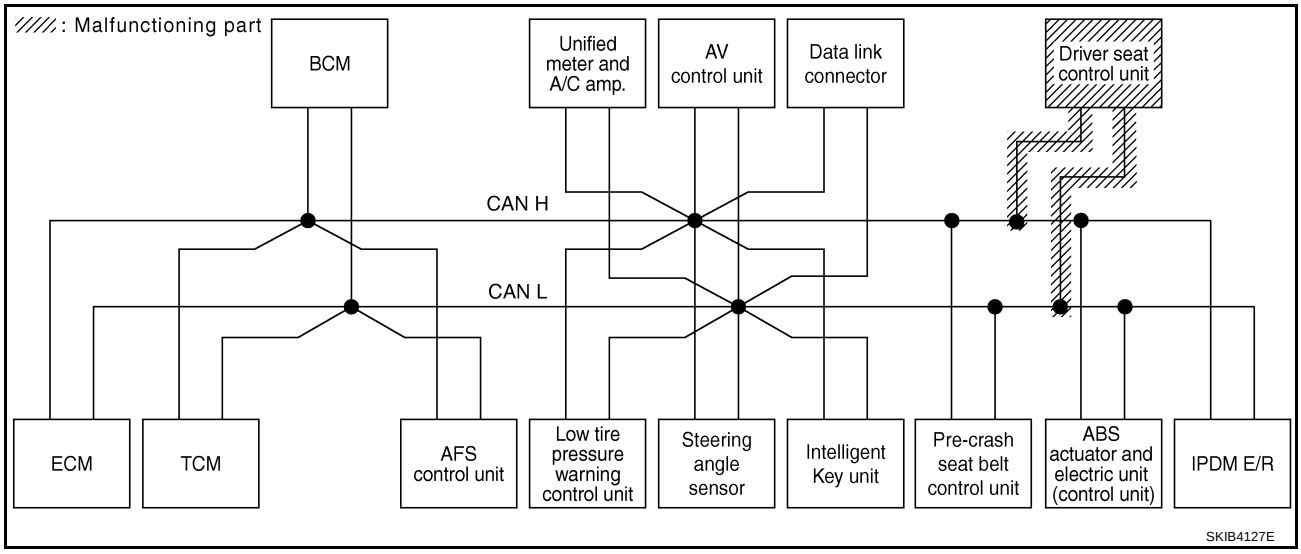
SKIB4126E

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	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



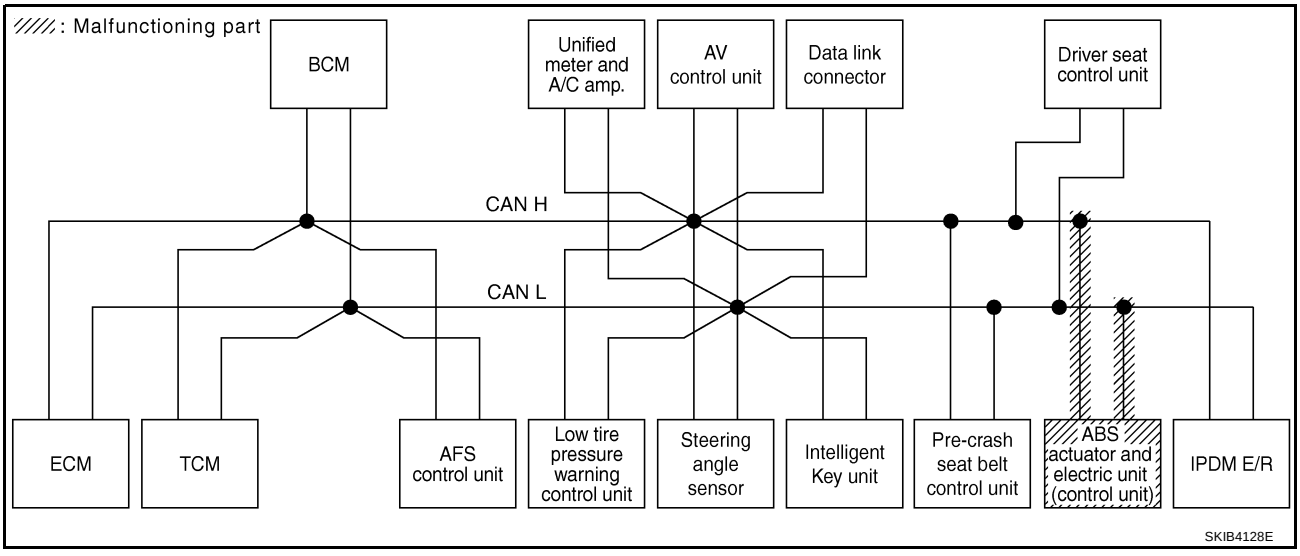
SKIB4127E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8416E



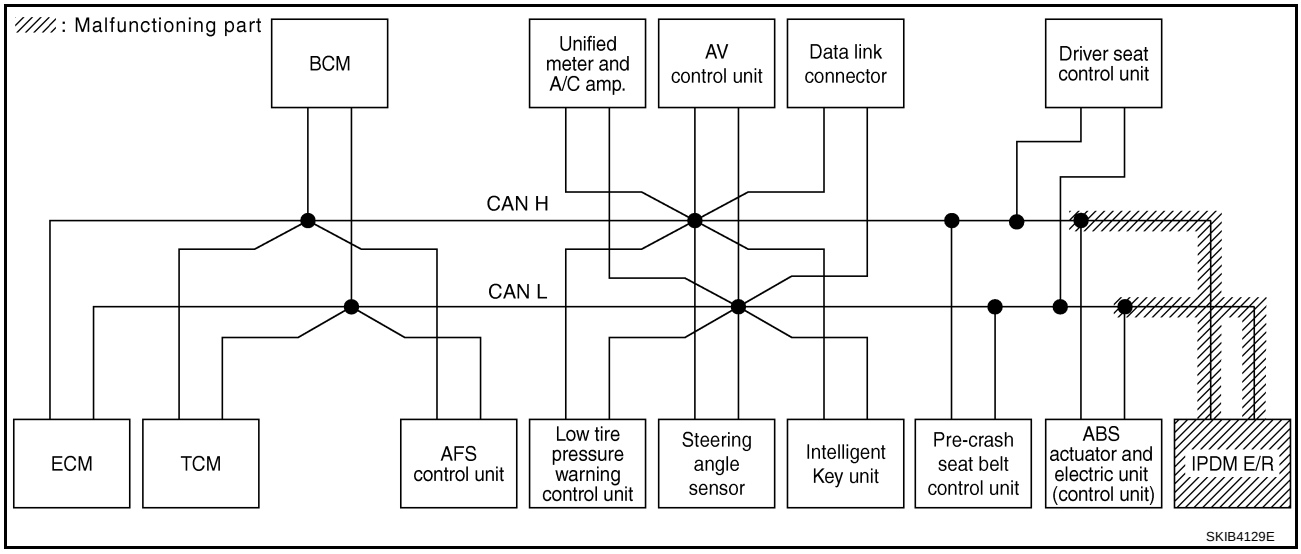
SKIB4128E

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												
				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)	—

PKIB8417E



SKIB4129E

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	—	—	UNKWN	—	✓	—	✓	—	—	—	✓	—	✓	✓	✓	✓
A/T	—	NG	UNKWN	✓	—	—	—	—	—	—	✓	—	✓	—	✓	—
ADAPTIVE LIGHT	✓	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	✓	—
BCM	✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	—
AIR PRESSURE MONITOR	✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	✓	—
INTELLIGENT KEY	✓	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	—
METER A/C AMP	✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	✓	—
MULTI AV	✓	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	✓	—
PRECRASH SEATBELT	✓	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	✓	—
AUTO DRIVE POS.	✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	✓	—
ABS	—	✓	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	✓	—
IPDM E/R	✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	✓	—

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	—	—	UNKWN	—	✓	—	UNKWN	—	—	—	UNKWN	—	✓	UNKWN	✓	✓
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	✓	—	—	—	✓	—	UNKWN	—	—	UNKWN	✓	—
BCM	No indication	—	UNKWN	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	✓	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	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	—	—	—	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-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	—	—	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

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

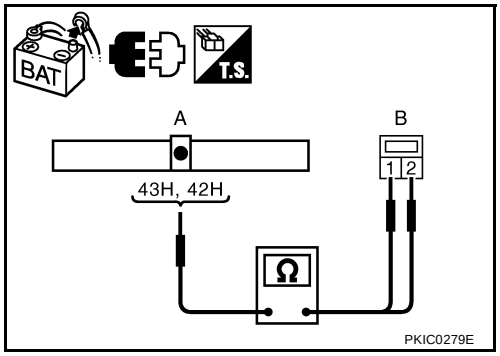
OK or NG

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



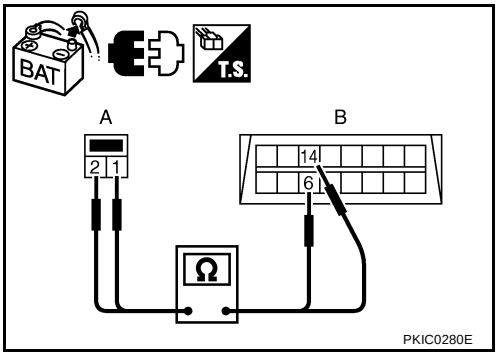
PKIC0279E

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

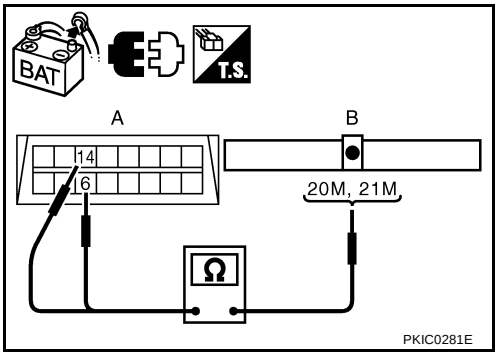
OK or NG

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

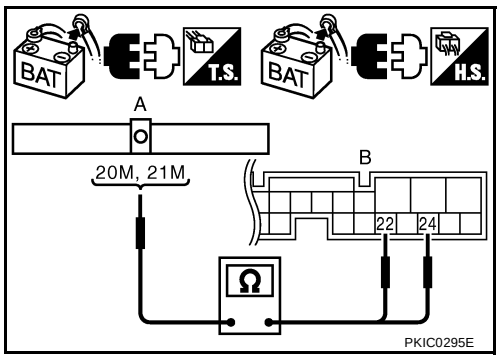
OK >> GO TO 3.

NG >> Repair harness.

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.

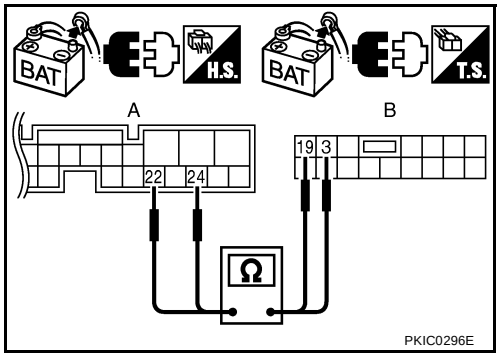
Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

NKS003Z9

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

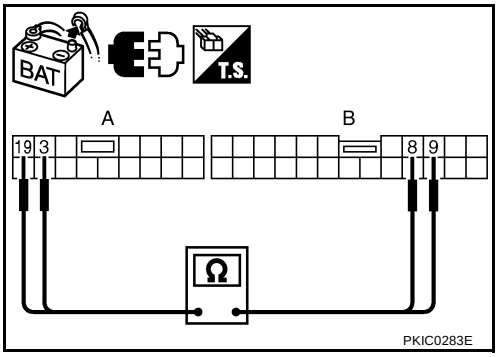
OK >> GO TO 2.

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



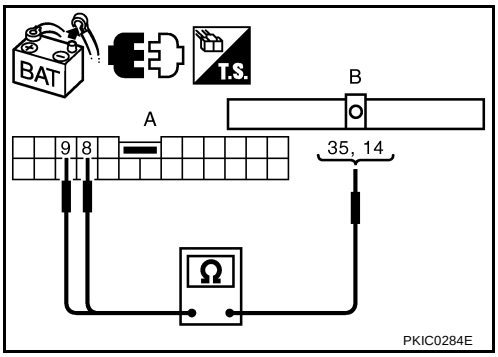
OK or NG

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

NKS003ZB

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).

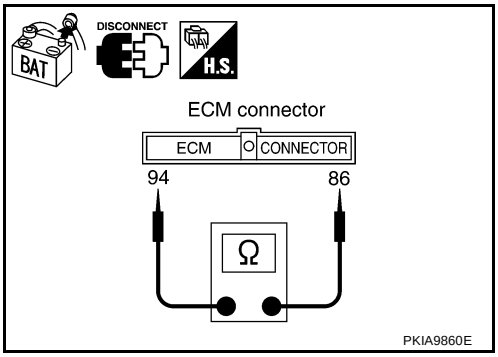
OK or NG

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

NKS003ZC

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

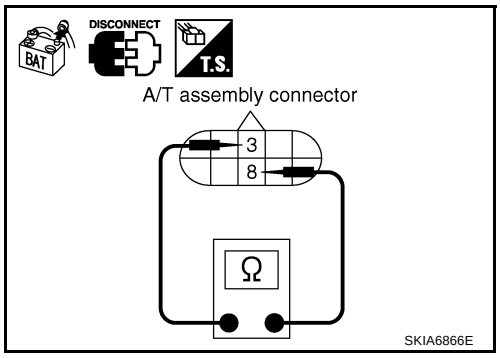
OK or NG

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

NKS003ZD

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

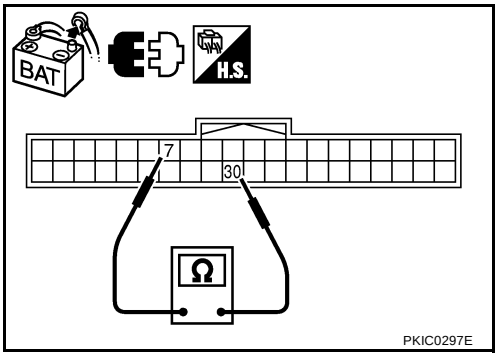
OK or NG

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

NKS003ZE

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).

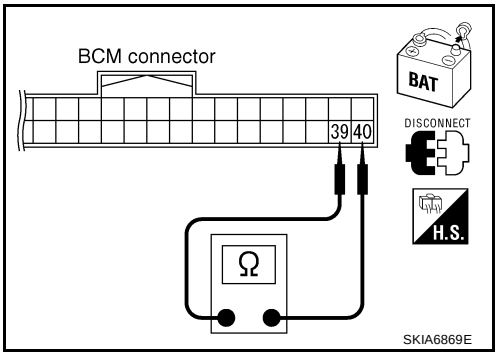
OK or NG

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

NKS003ZF

1. CHECK CONNECTOR

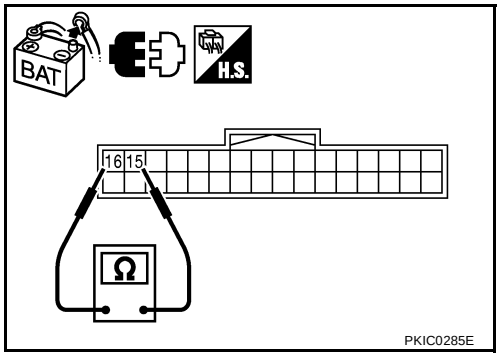
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

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

NKS003ZG

1. CHECK CONNECTOR

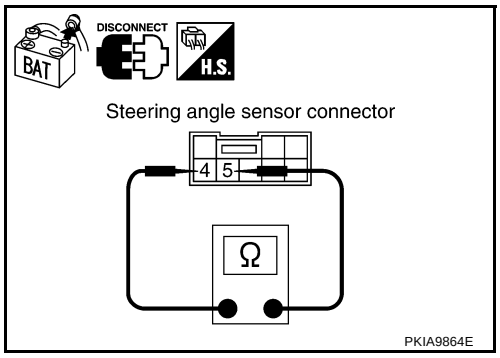
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

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.)
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).

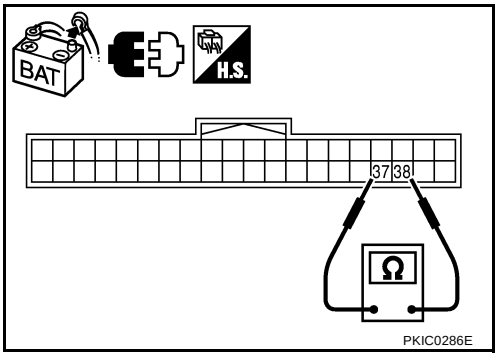
OK or NG

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.)
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

NKS003ZI

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).

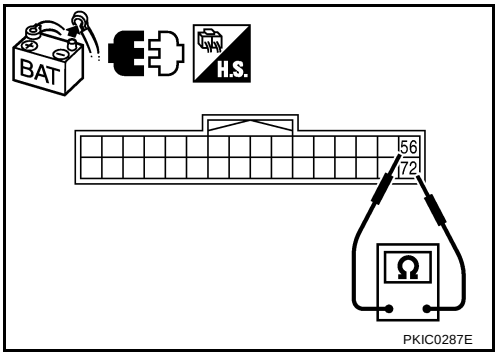
OK or NG

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

NKS003ZJ

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

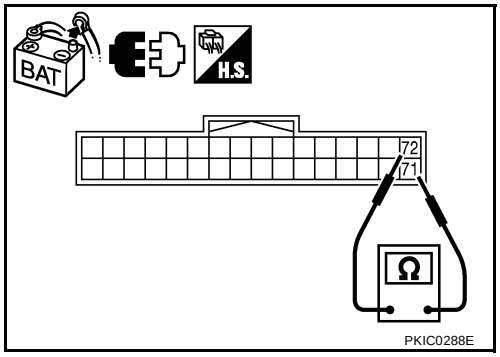
OK or NG

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

NKS003ZK

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).

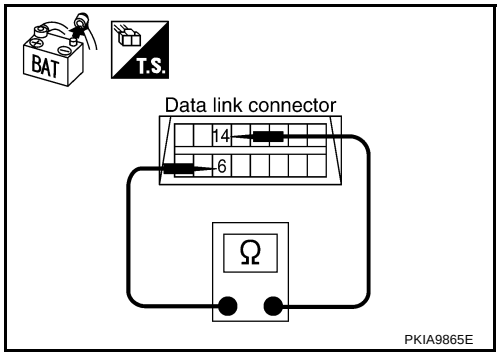
OK or NG

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

NKS003ZL

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).

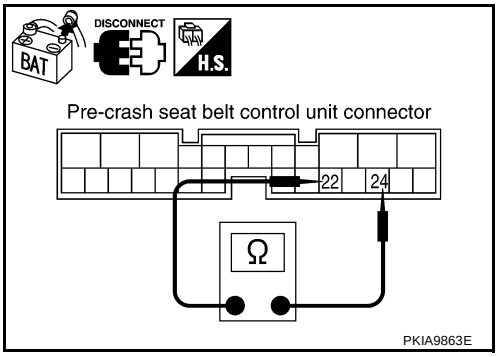
OK or NG

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

NKS003ZM

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

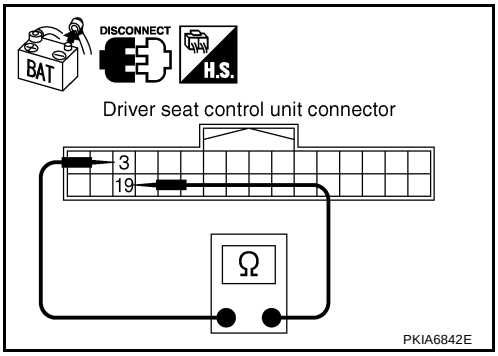
OK or NG

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

NKS003ZN

1. CHECK CONNECTOR

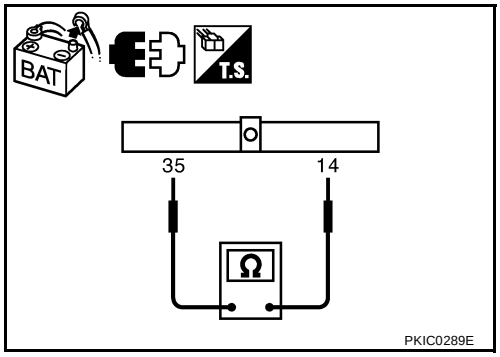
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

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

NKS003ZO

1. CHECK CONNECTOR

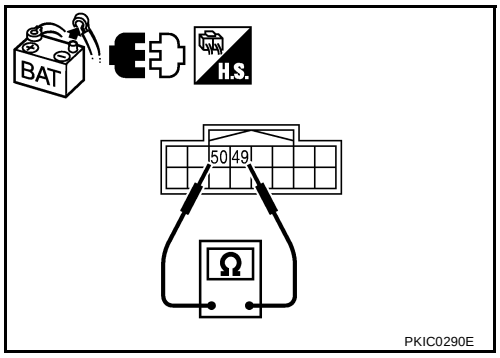
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

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

NKS003ZP

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.

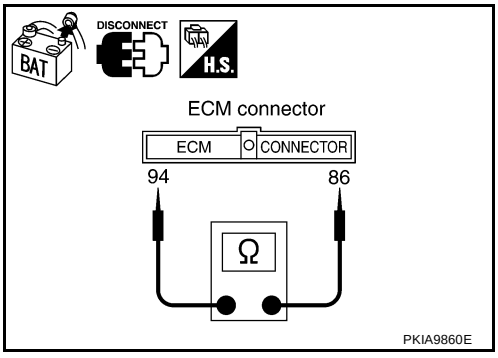
2. CHECK HARNESS FOR SHORT CIRCUIT

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

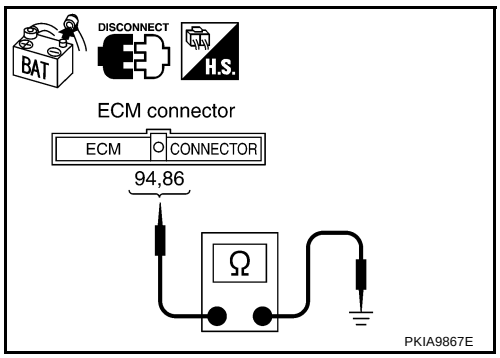
OK >> GO TO 3.
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between ECM and harness connector M72
- Harness between ECM and BCM
- Harness between ECM and harness connector M61

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.

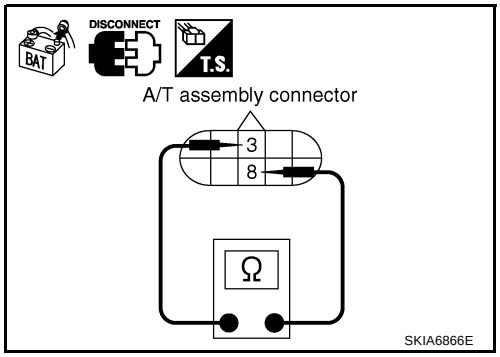
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

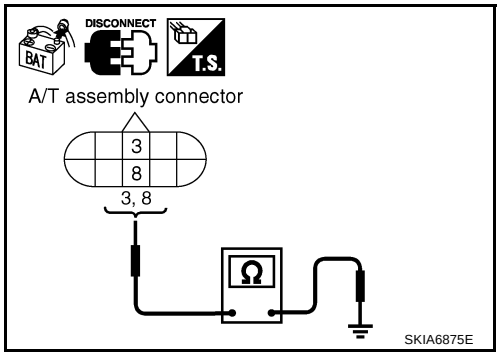
OK >> GO TO 5.

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

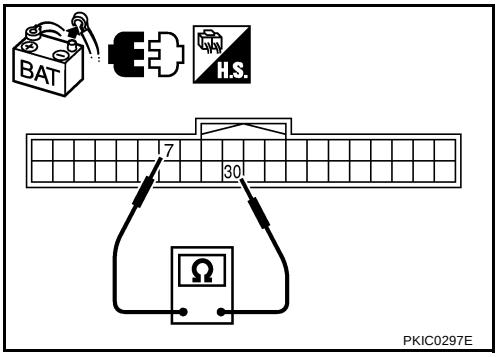
OK >> GO TO 6.

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

6. CHECK HARNESS FOR SHORT CIRCUIT

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

AFS control unit connector	Terminal		Continuity
F110	30	7	No



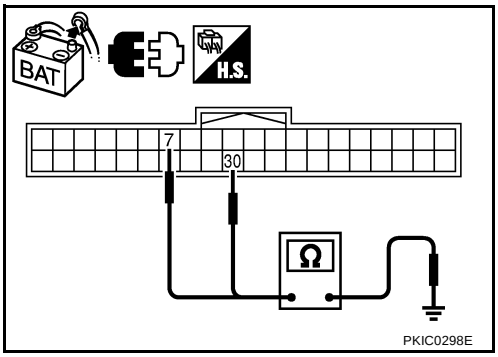
OK or NG

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



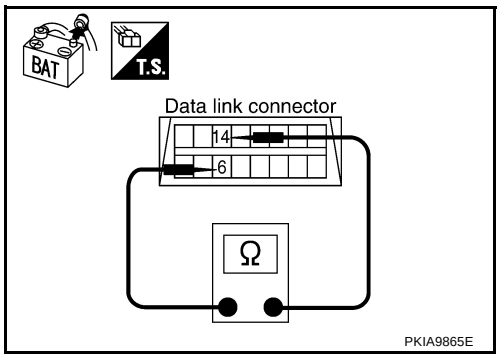
OK or NG

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

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.

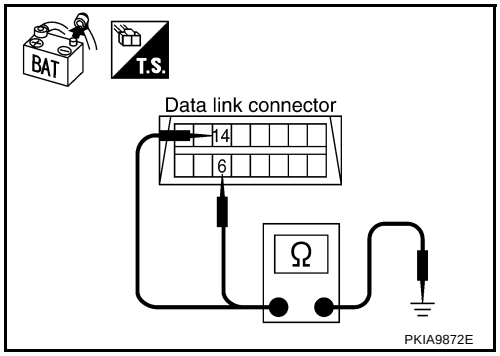
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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.

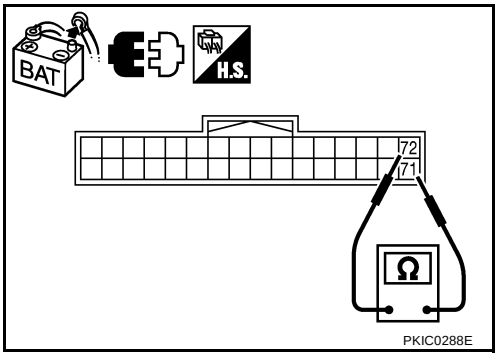
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

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



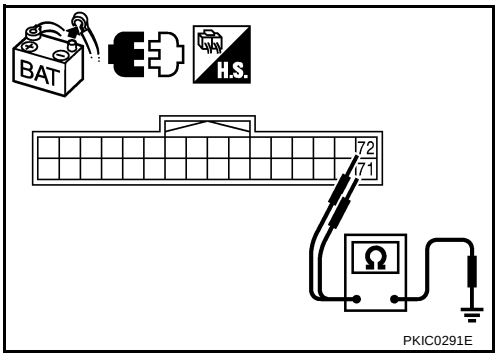
OK or NG

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

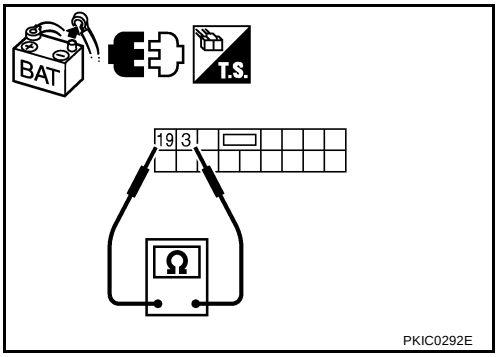
OK >> GO TO 12.
NG >> Repair harness between AV control unit and harness connector M216.

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



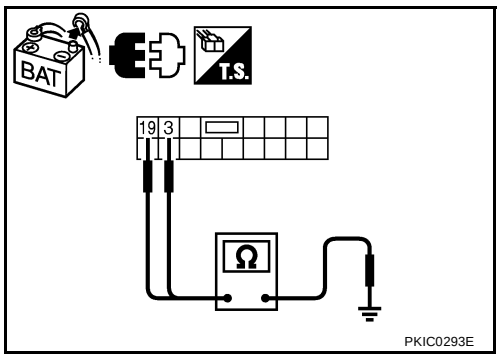
OK or NG

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

13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No



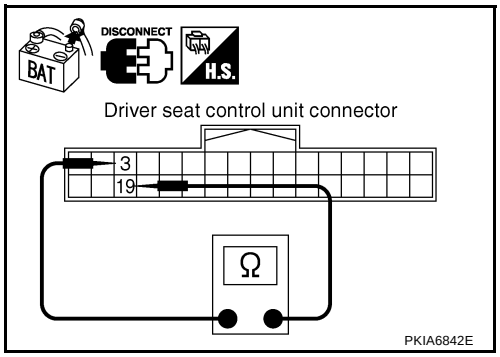
OK or NG

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



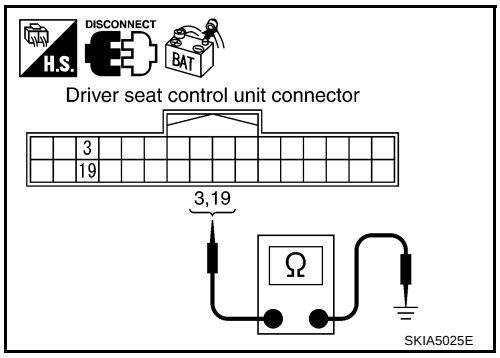
OK or NG

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



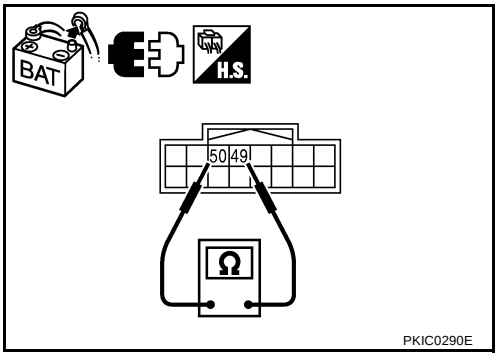
OK or NG

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

16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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.

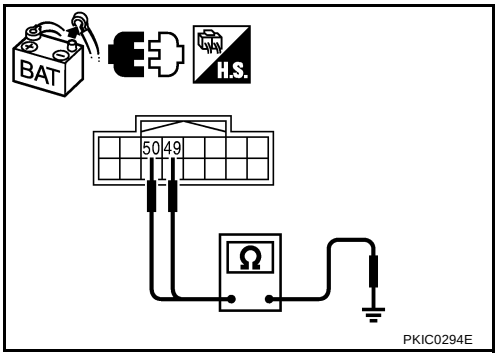
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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)

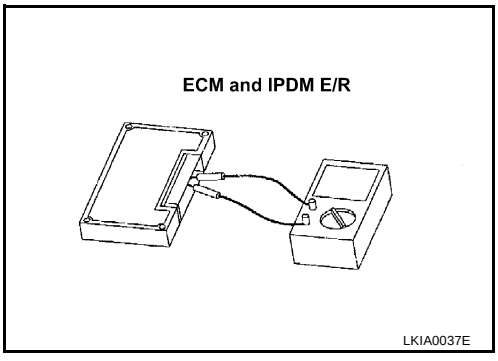
18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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.

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”" .

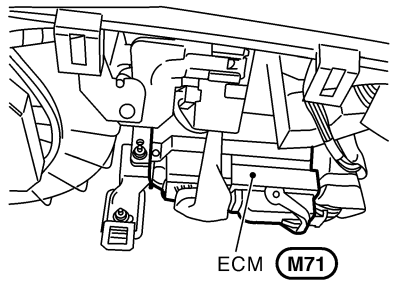
CAN SYSTEM (TYPE 4)

PFP:23710

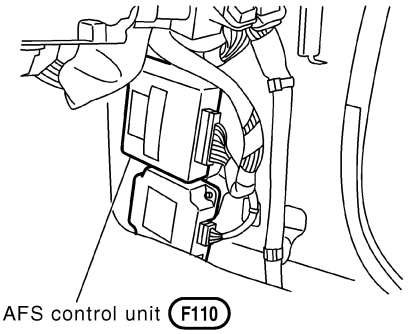
Component Parts and Harness Connector Location

NKS003ZR

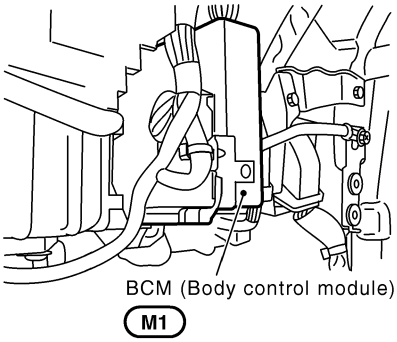
Passenger side view with instrument lower cover removed



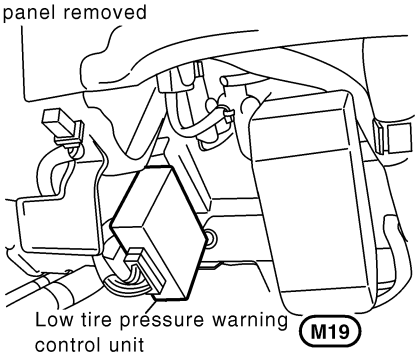
Behind dash side lower RH finisher



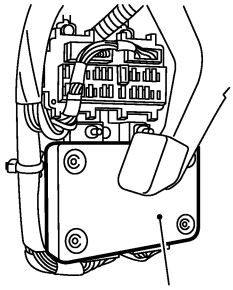
Passenger side view with instrument lower cover removed



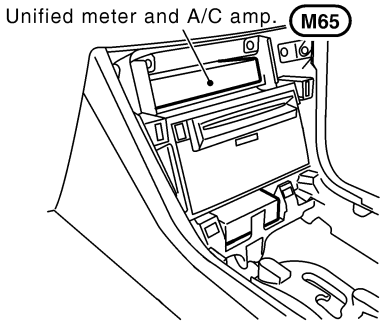
Driver side view with instrument lower panel removed



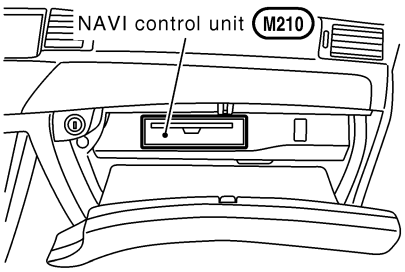
Behind dash side lower LH finisher



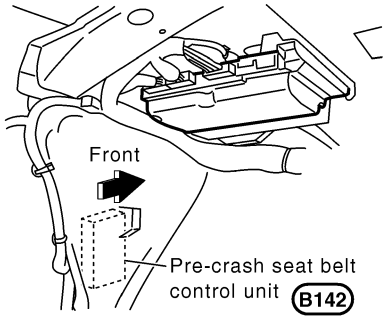
View with cluster lid C removed



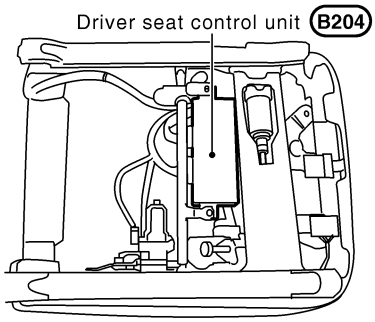
Inside of glove box



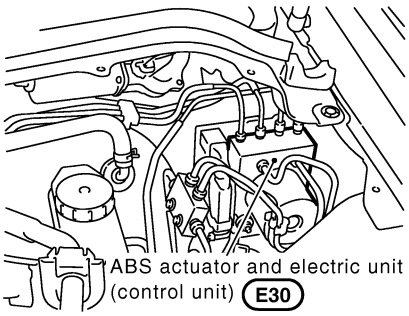
View with trunk side LH finisher and front finisher removed



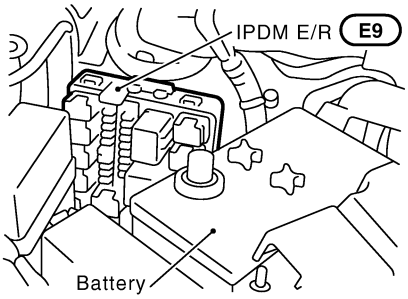
Under driver's seat



Rear left of engine room



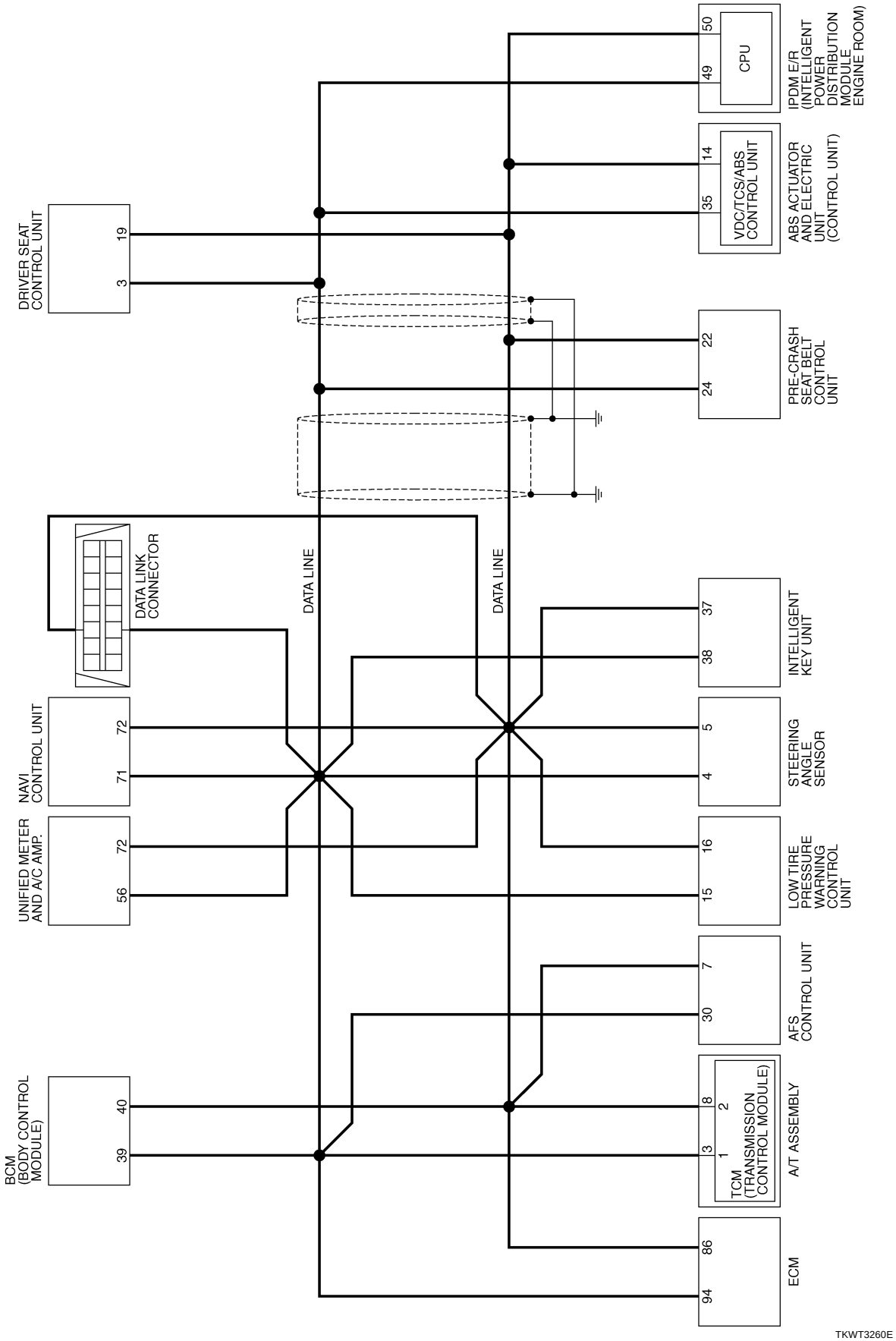
View with cowl top cover removed



PKIC0602E

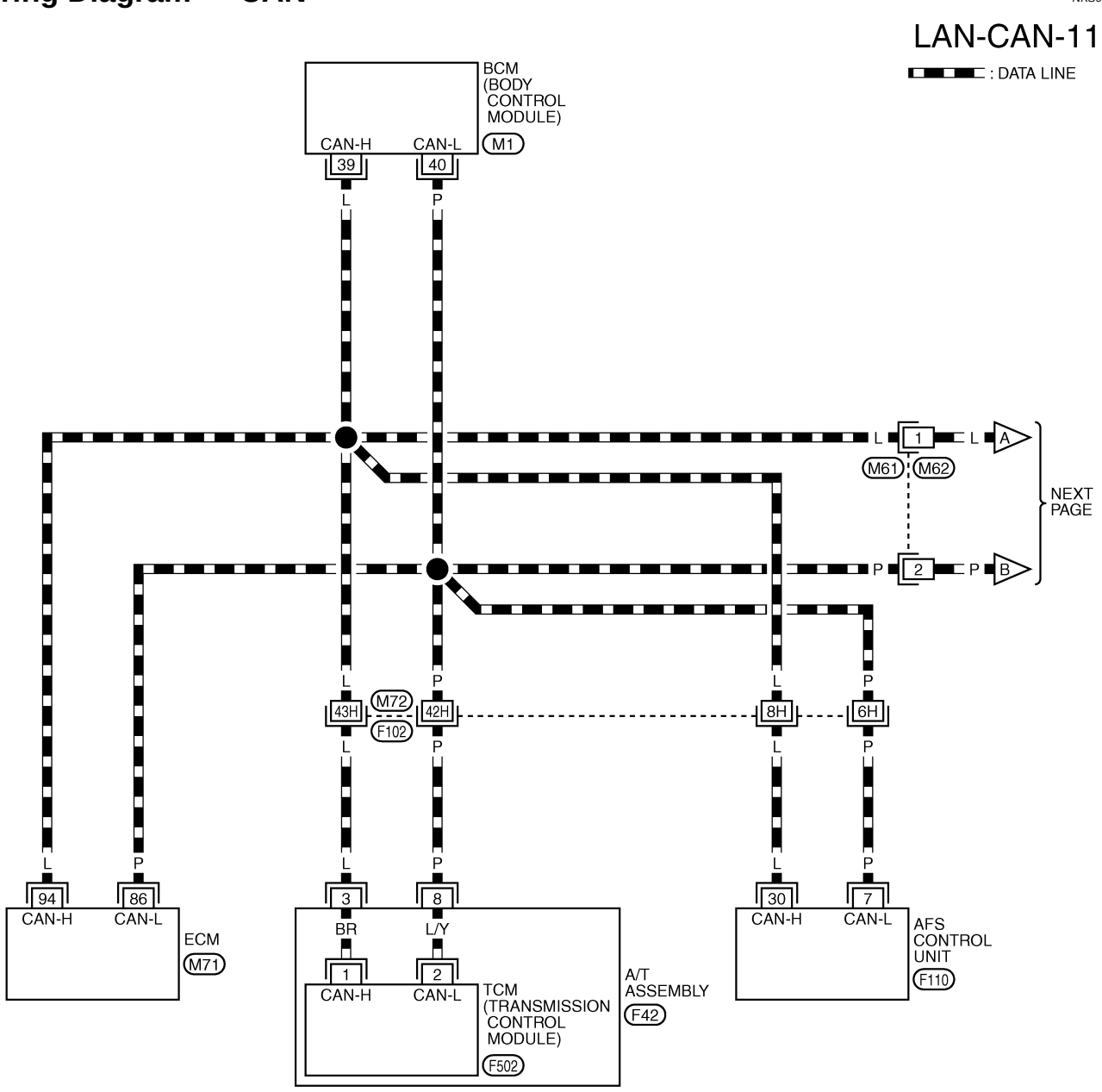
Schematic

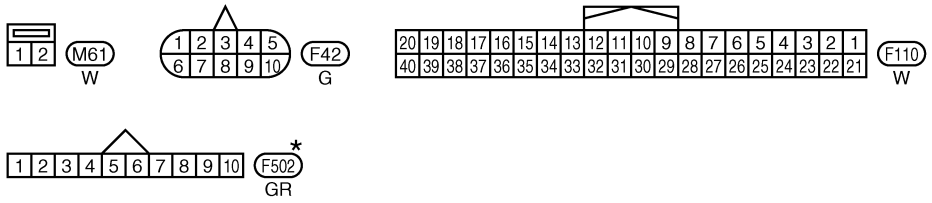
NKS003ZS



Wiring Diagram — CAN —

NKS003ZT





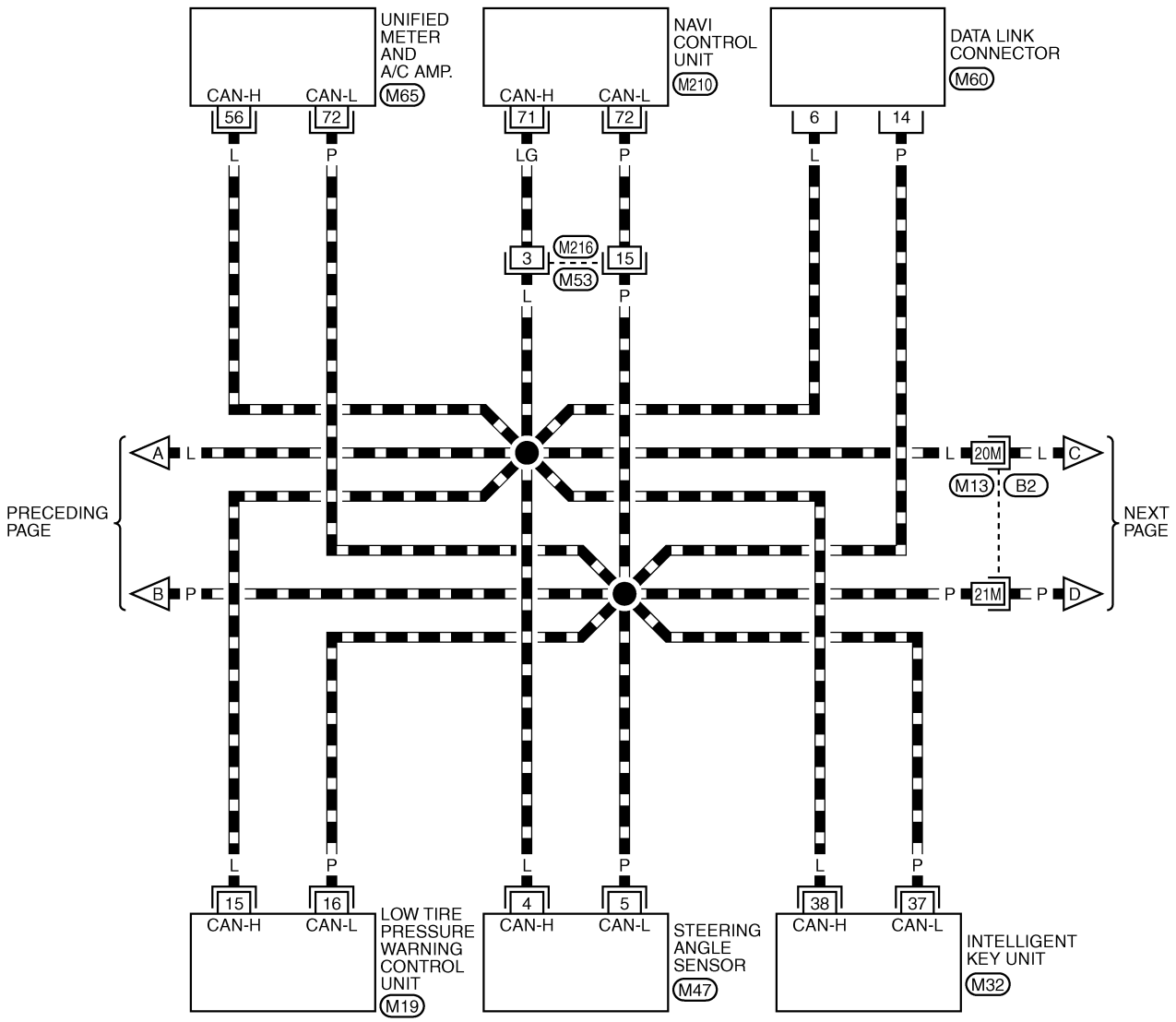
REFER TO THE FOLLOWING.
F102 -SUPER MULTIPLE JUNCTION (SMJ)
M1 , M71 -ELECTRICAL UNITS

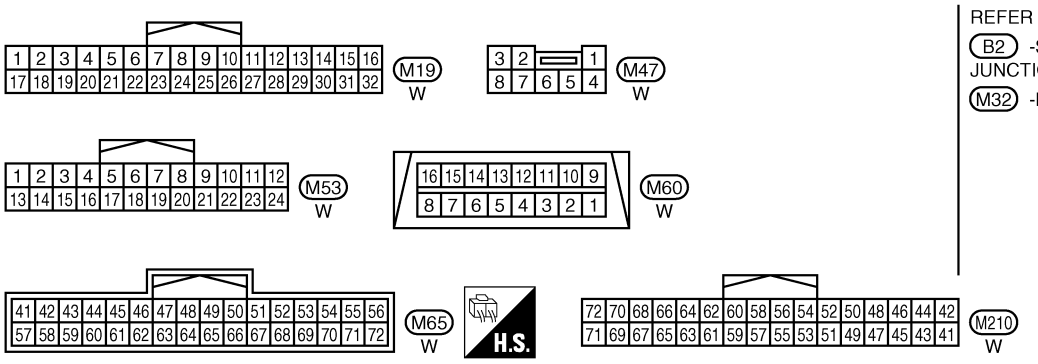
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3261E

LAN-CAN-12

: DATA LINE





REFER TO THE FOLLOWING.

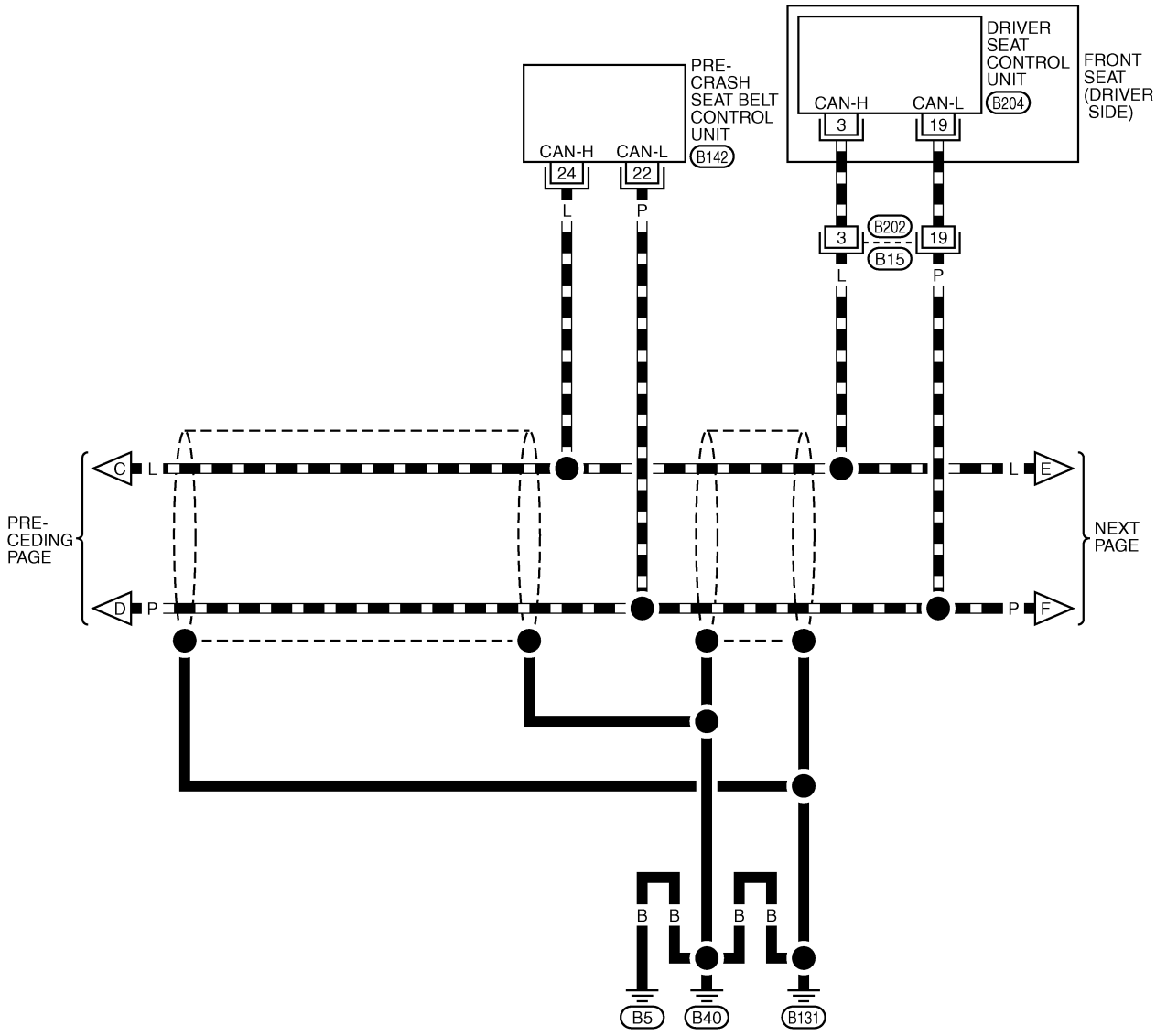
B2 -SUPER MULTIPLE JUNCTION (SMJ)

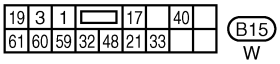
M32 -ELECTRICAL UNITS

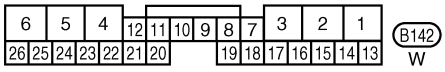
TKWT3262E

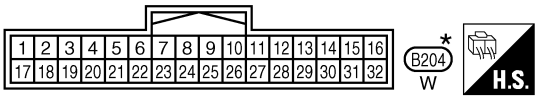
LAN-CAN-13

: DATA LINE







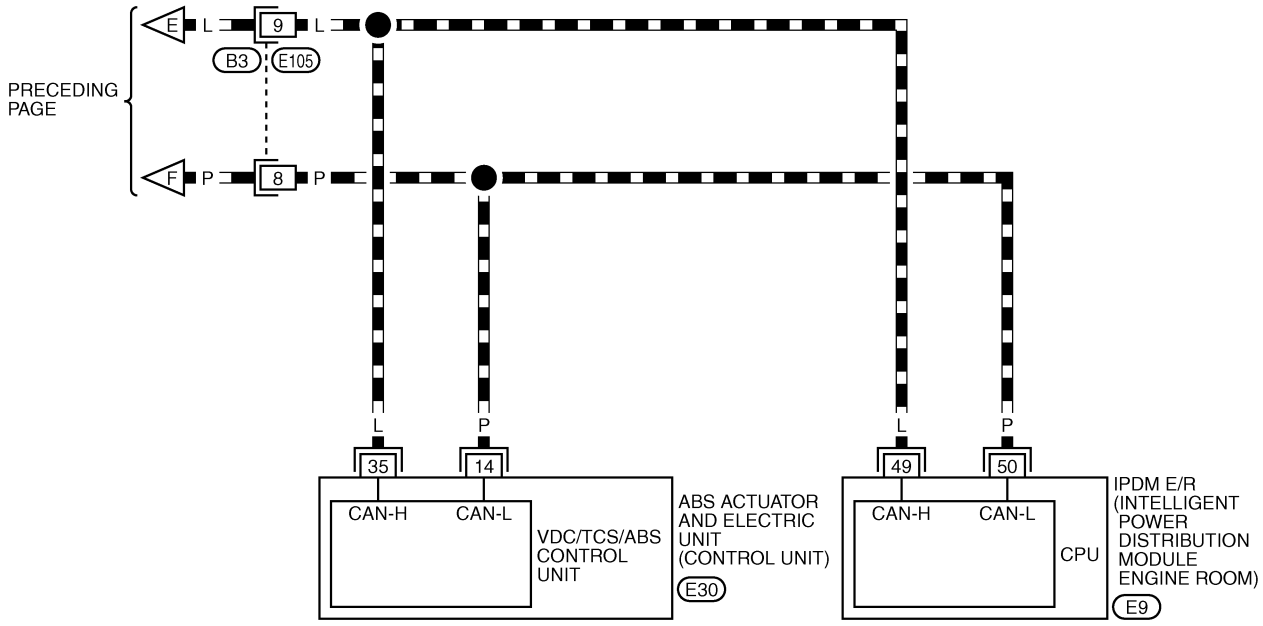


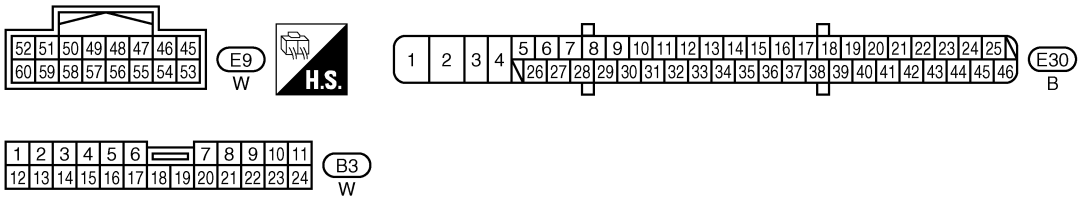
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3263E

LAN-CAN-14

: DATA LINE





TKWT3264E

Check Sheet

NKS003ZU

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	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)	—

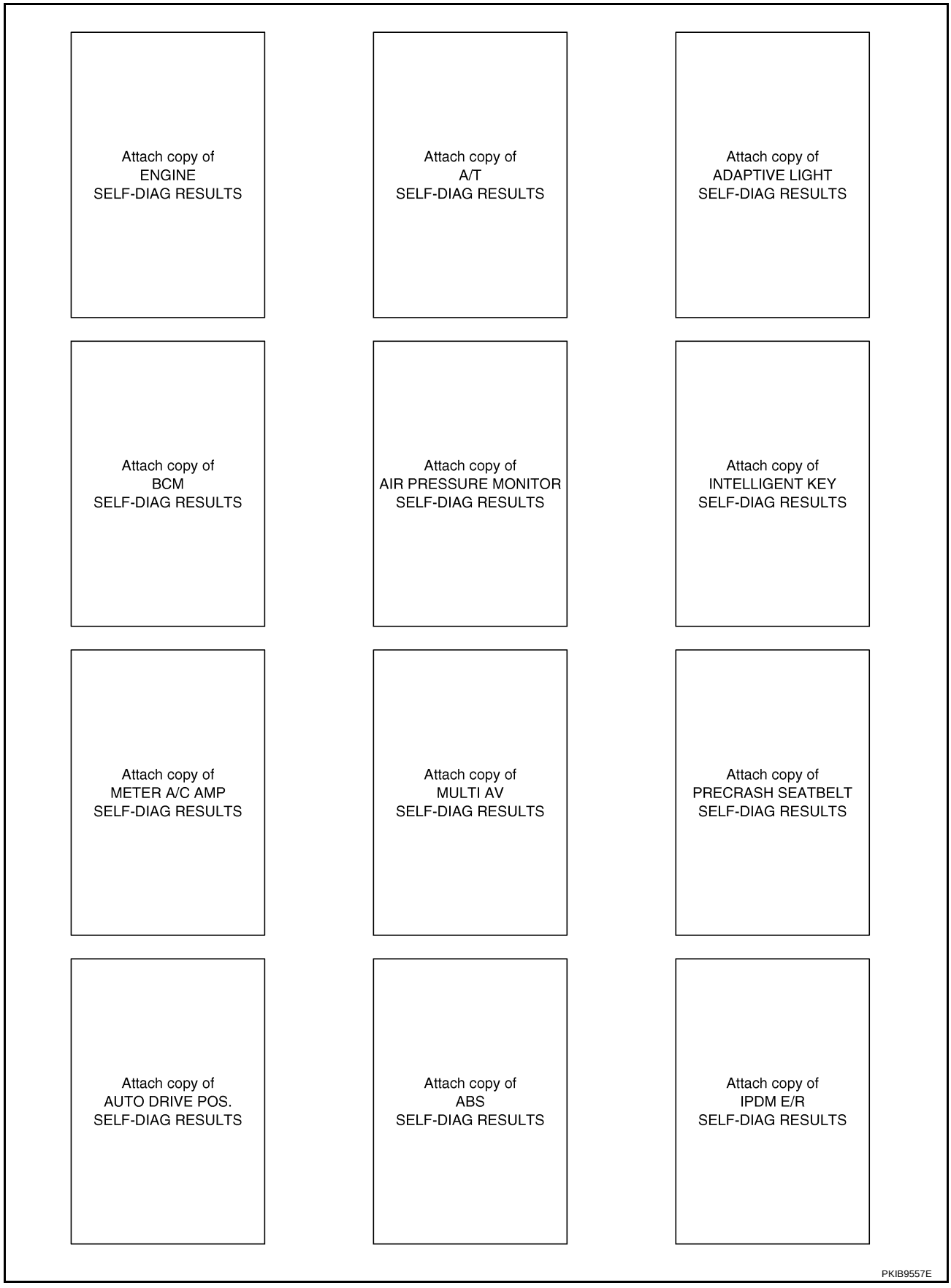
Symptoms :

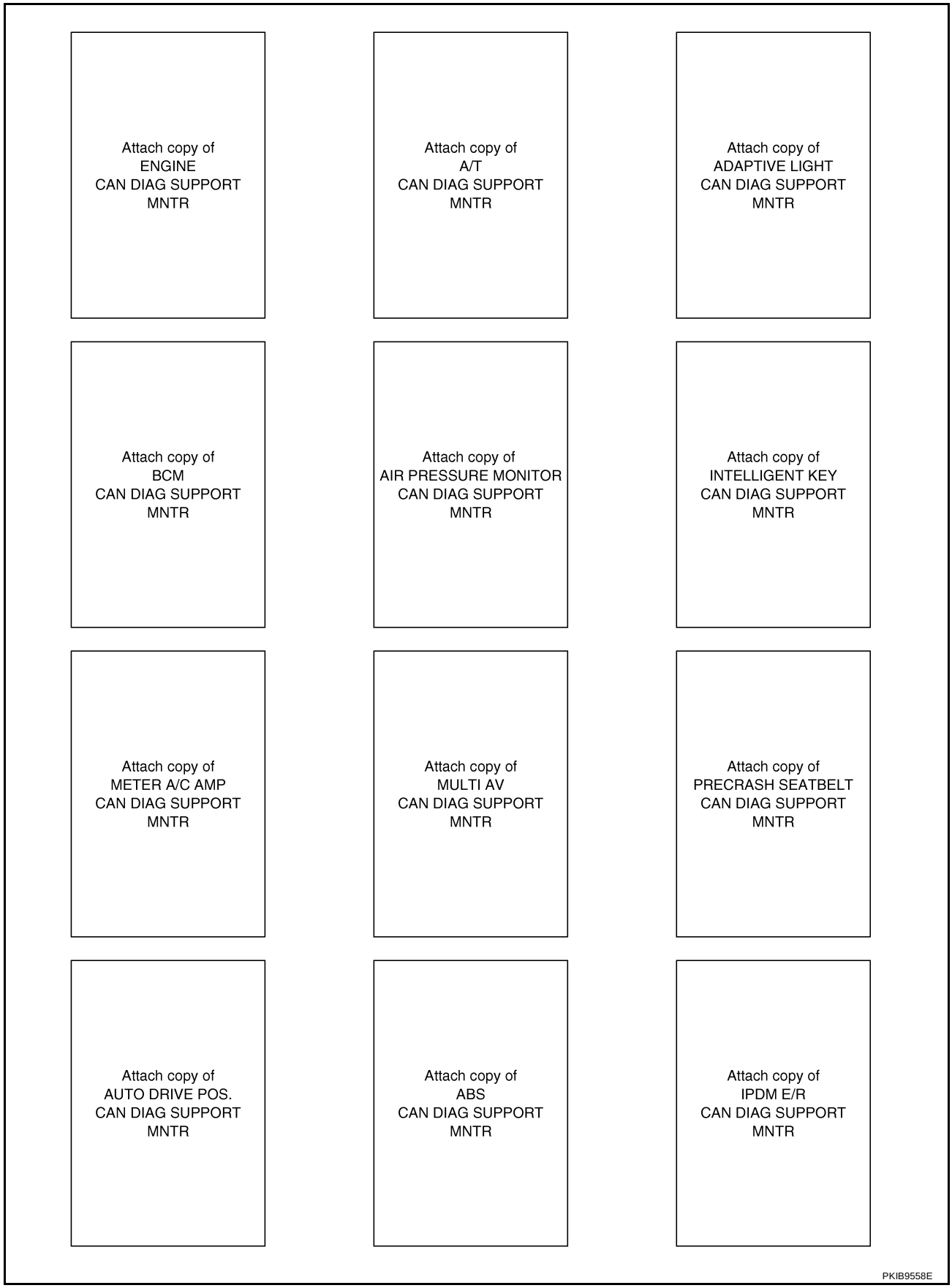
Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIB8399E

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

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CAN DIAG SUPPORT
MNTR
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AUTO DRIVE POS.
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IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB9558E

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	—	—	—	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)	—

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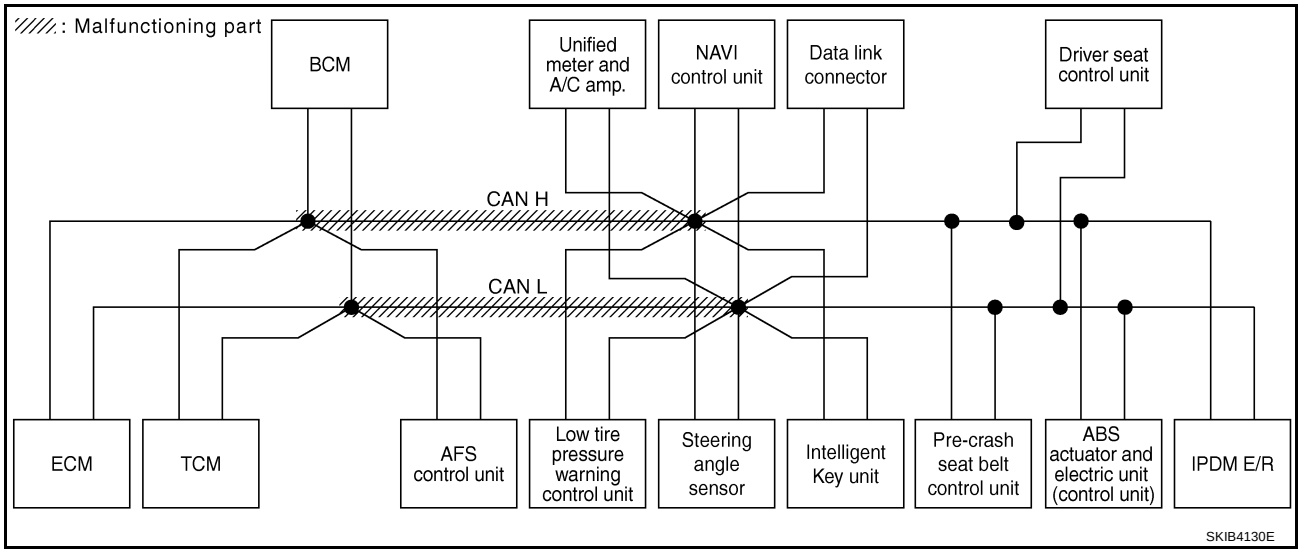

Case 2

Check harness between data link connector and pre-crash seat belt control unit. Refer to LAN-206, "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												
				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)	—

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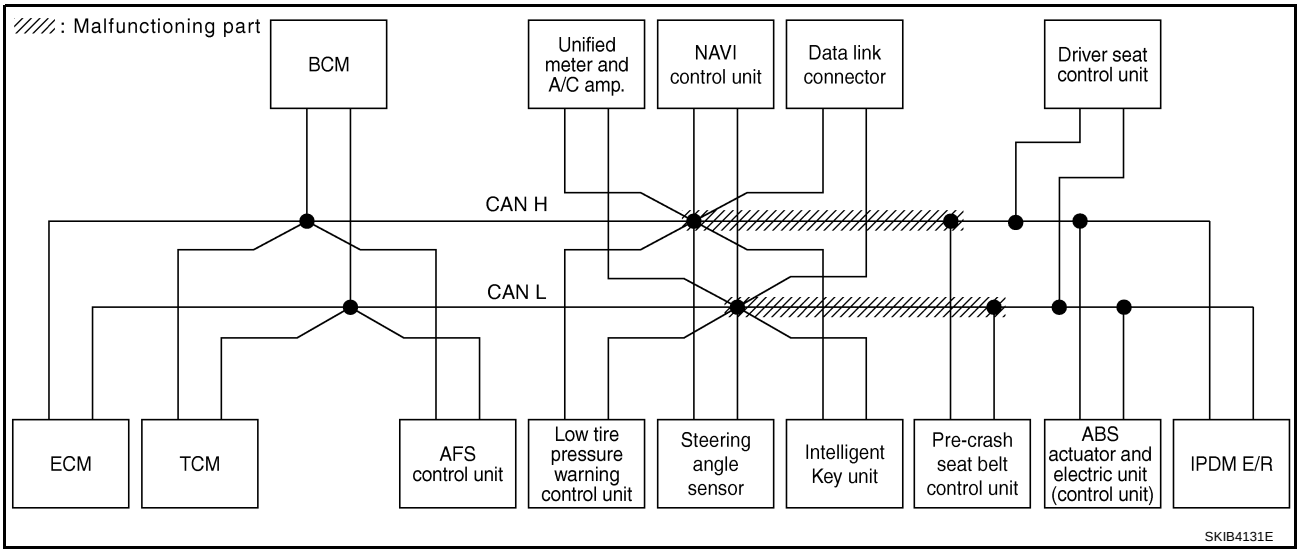

Case 3

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												
				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)	—

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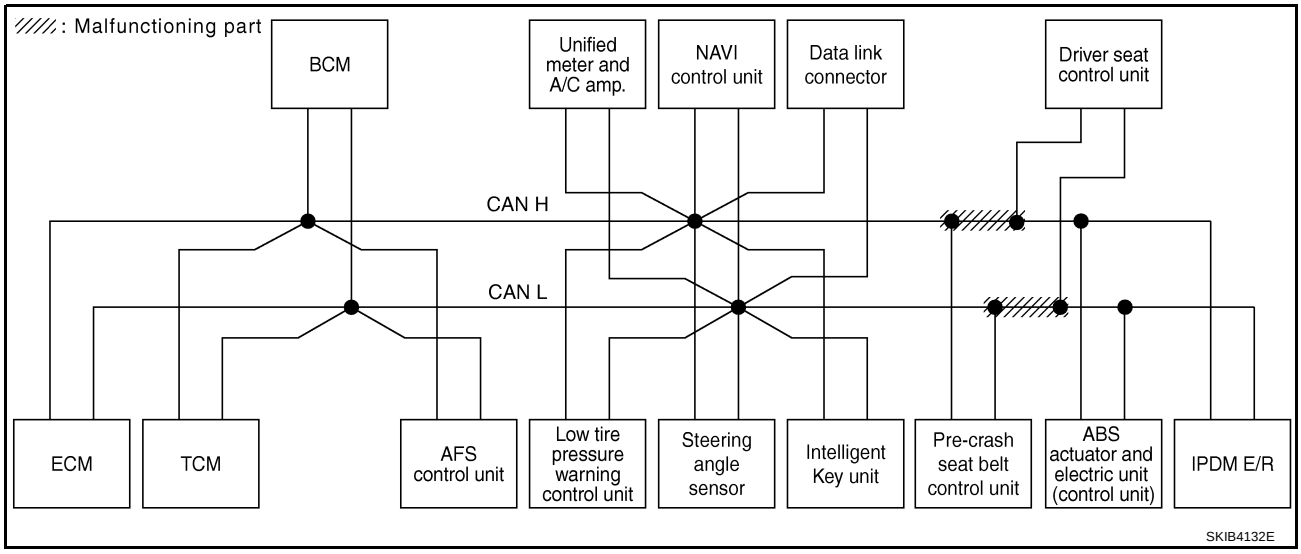

Case 4

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to LAN-207, "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	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) ✓	—

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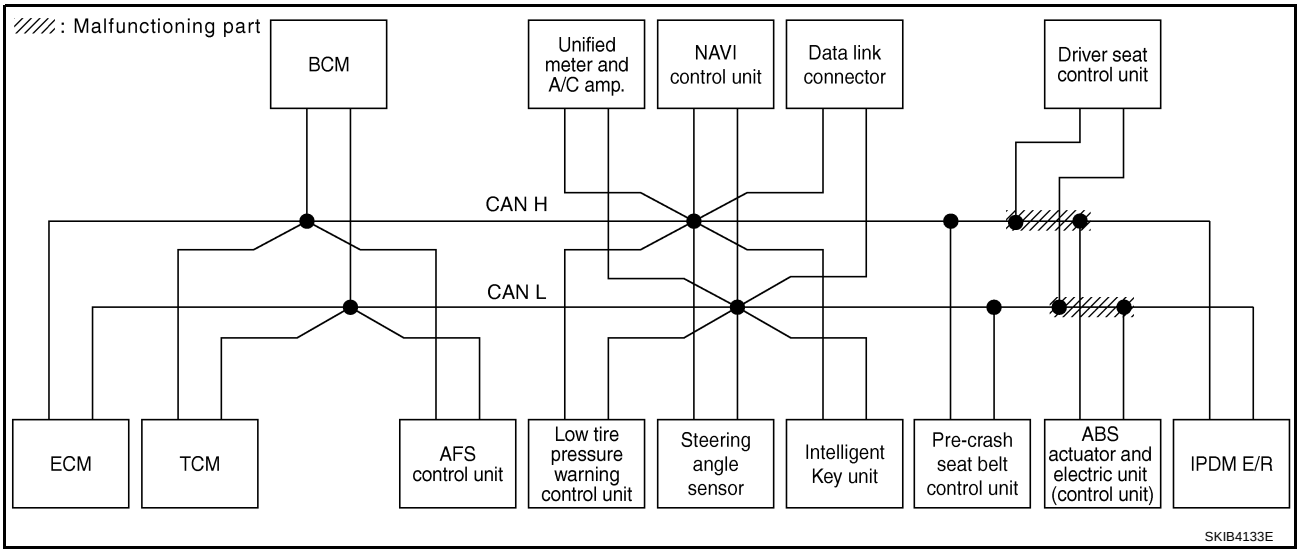


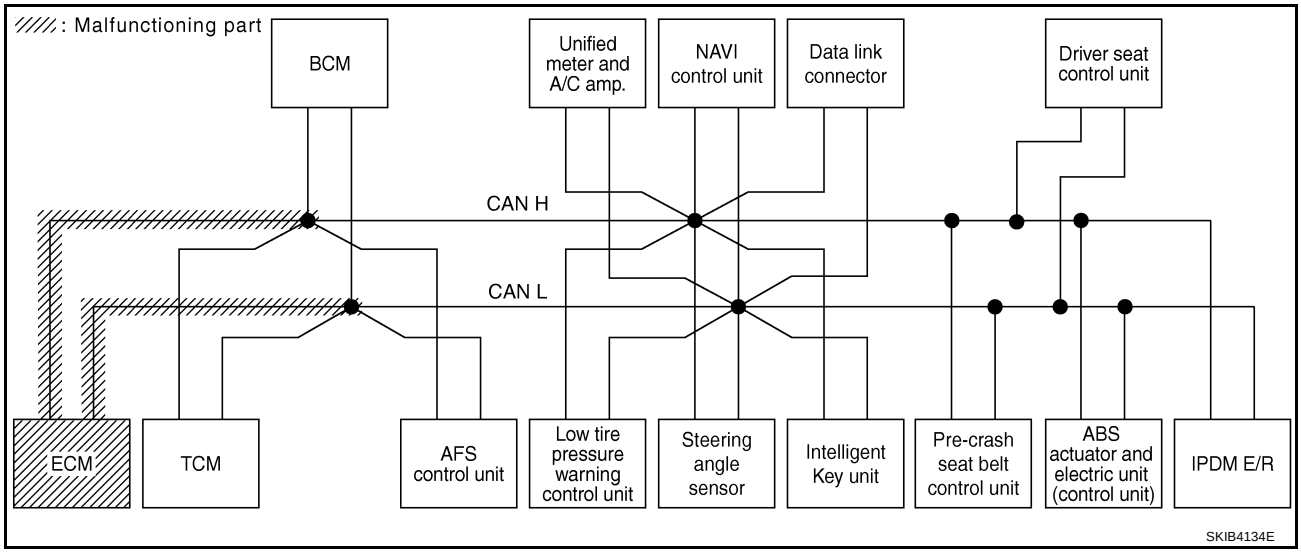
SKIB4133E

Case 5

Check ECM circuit. Refer to LAN-208, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
ENGINE	—	—	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	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)	—
PRECRASH SEATBELT	No indication	—	—	✓	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	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8404E



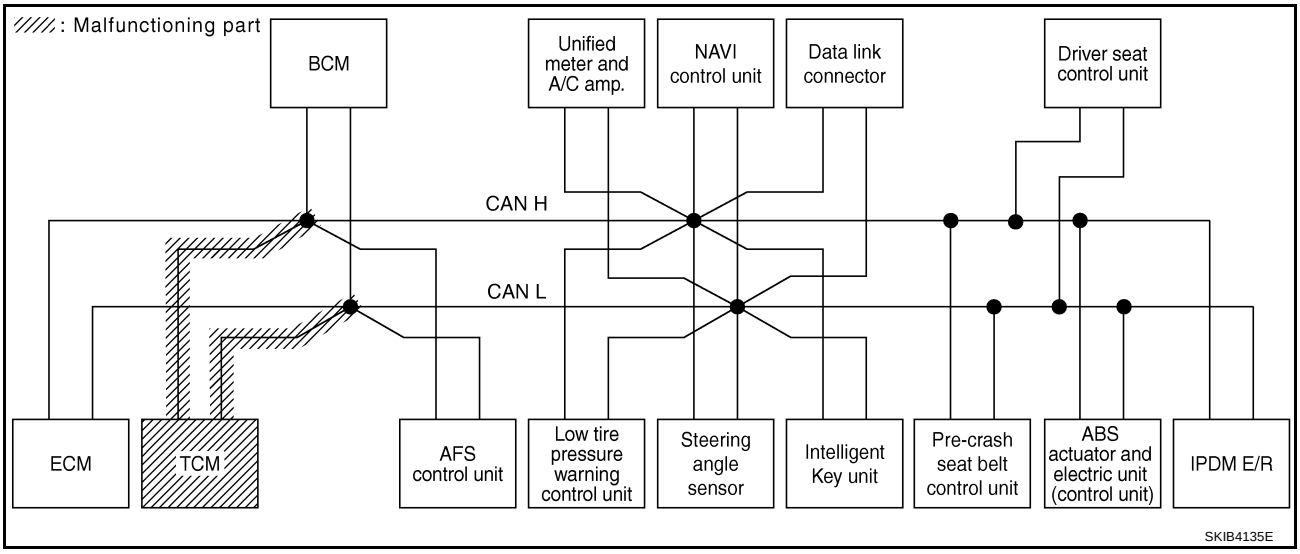
SKIB4134E

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



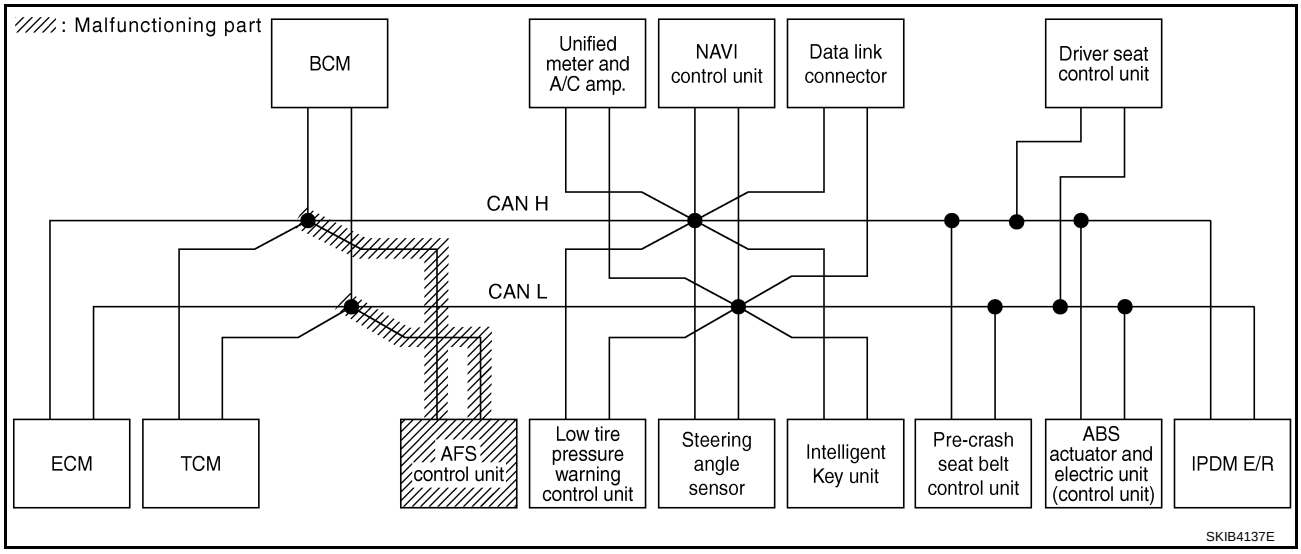
SKIB4135E

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	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



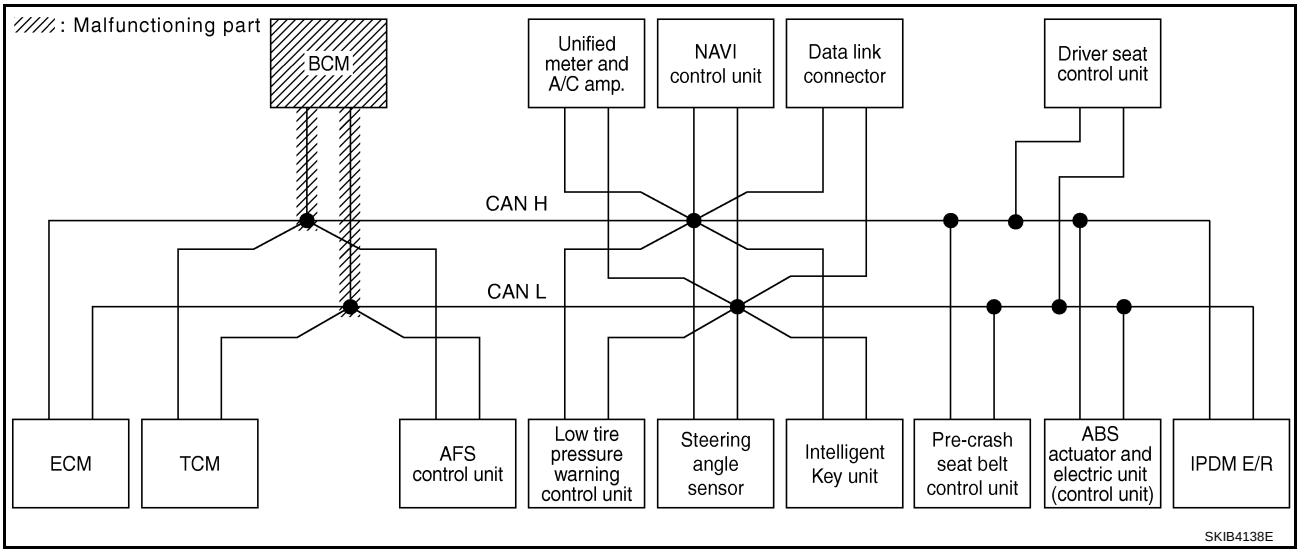
SKIB4137E

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	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



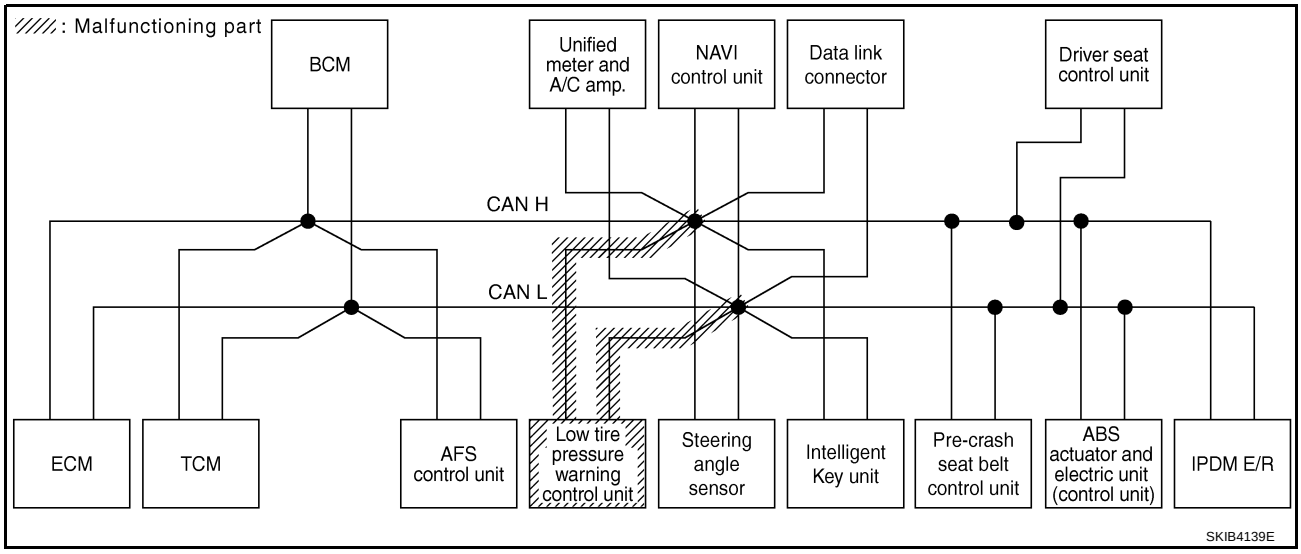
SKIB4138E

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												
				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)	—

PKIB8408E



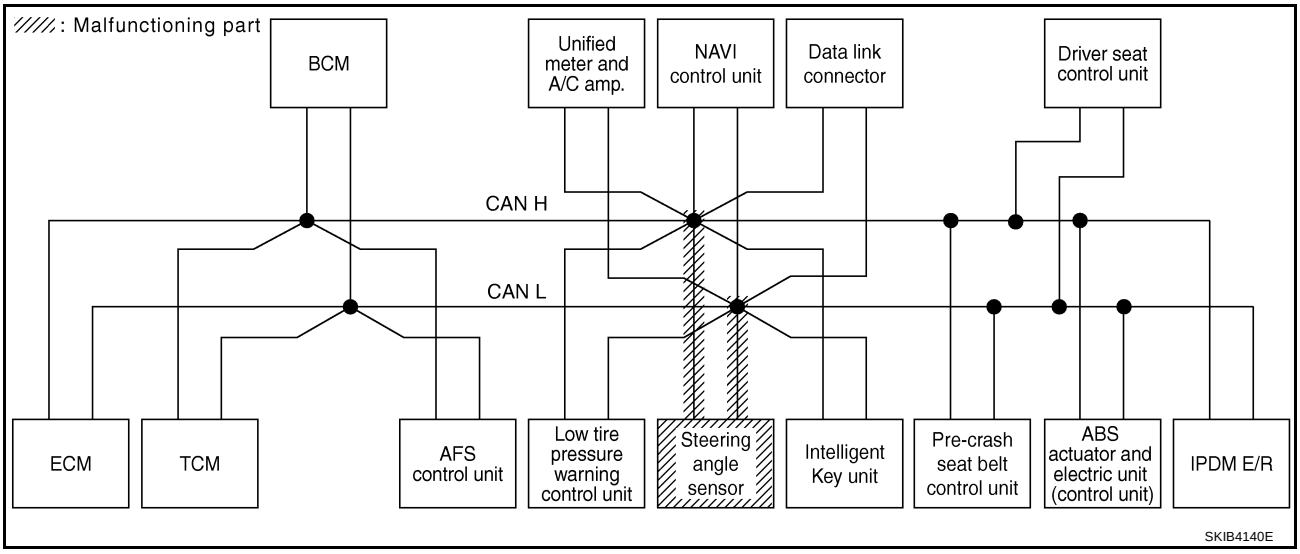
SKIB4139E

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	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)	—

PKIB8409E



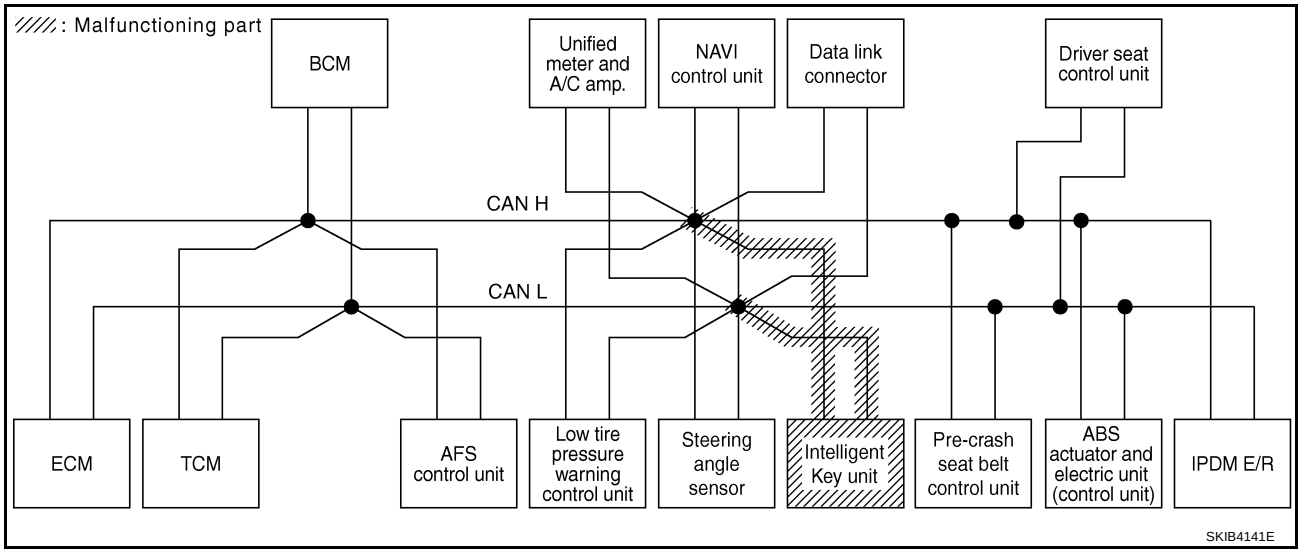
SKIB4140E

Case 11

Check Intelligent Key unit circuit. Refer to LAN-211, "Intelligent Key Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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



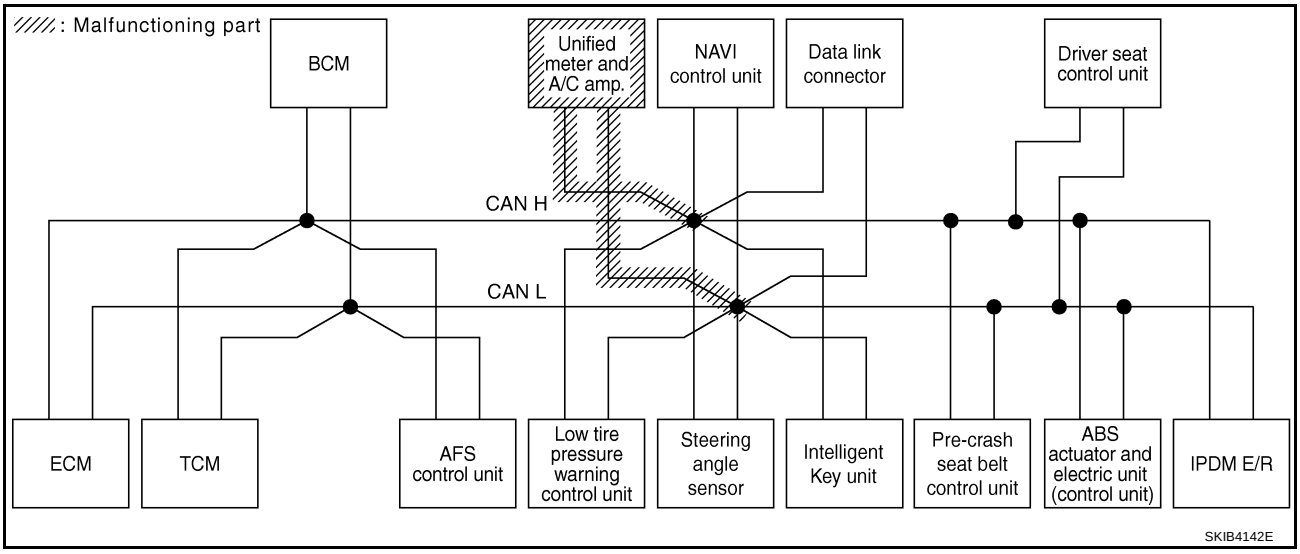
SKIB4141E

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	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	—	—	—	—	—	—	—	—	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	—	—	—	—	—	✓	—	—	—	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



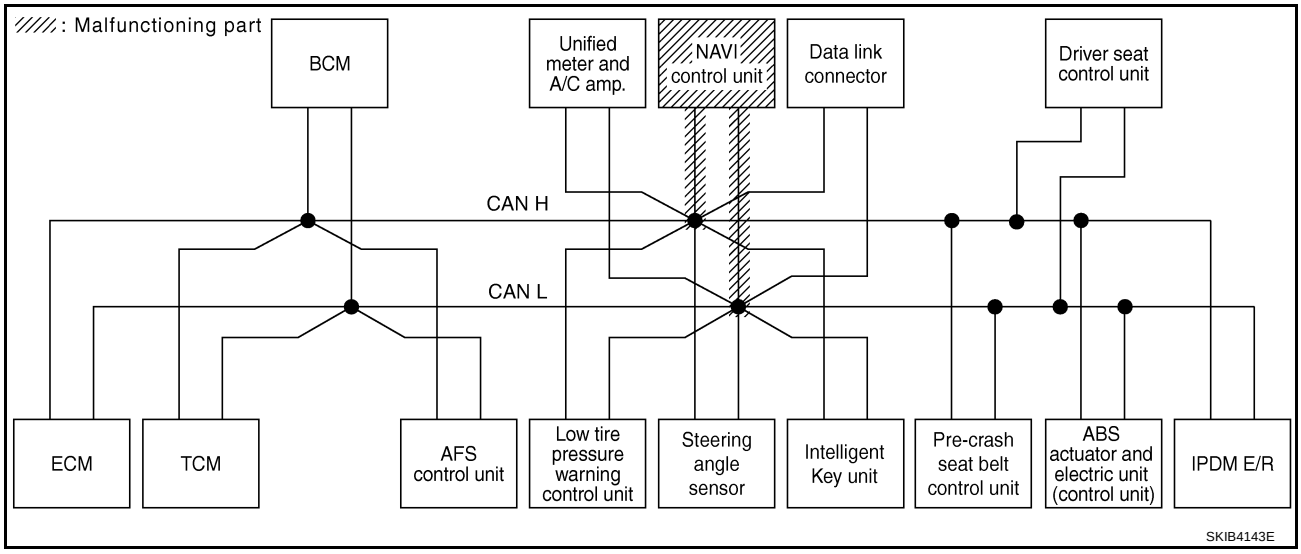
SKIB4142E

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	—	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

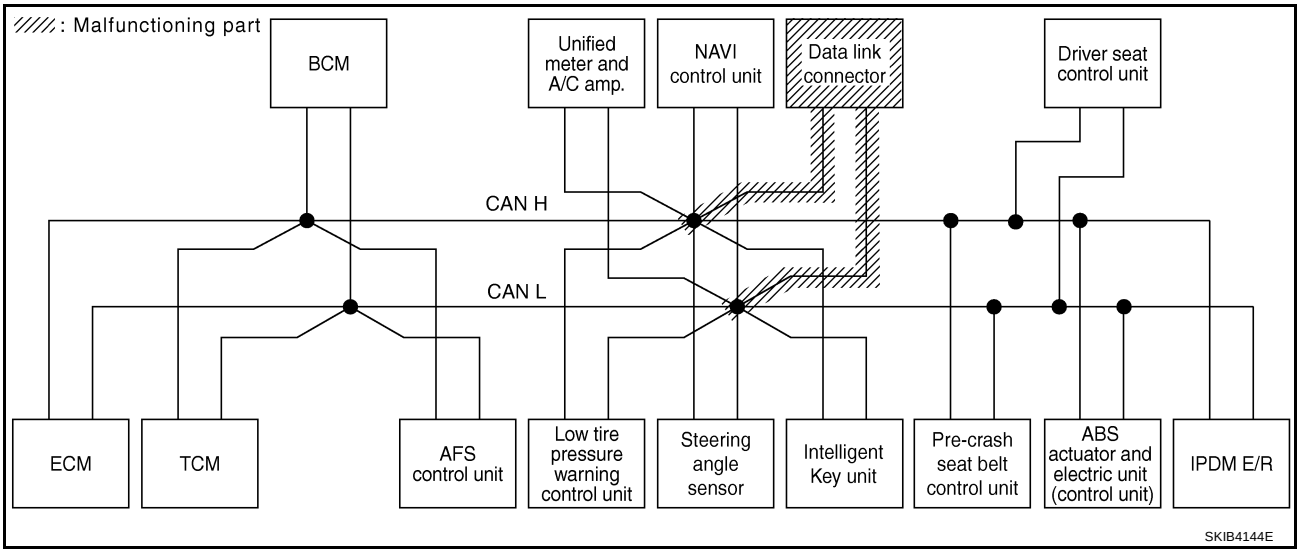


Case 14

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		
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



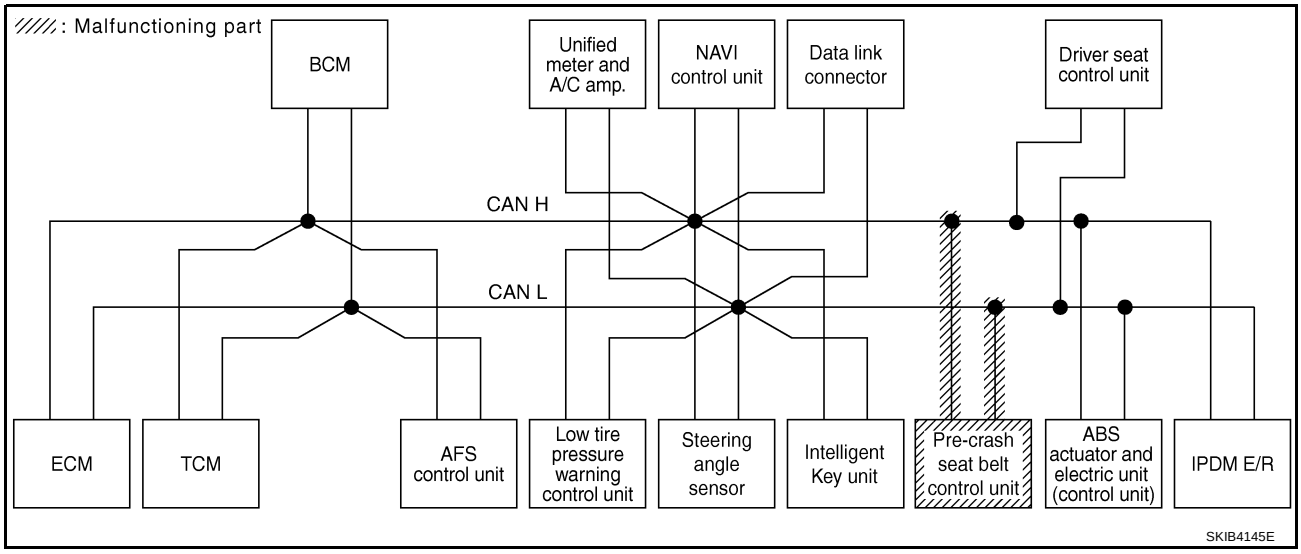
SKIB4144E

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												
				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



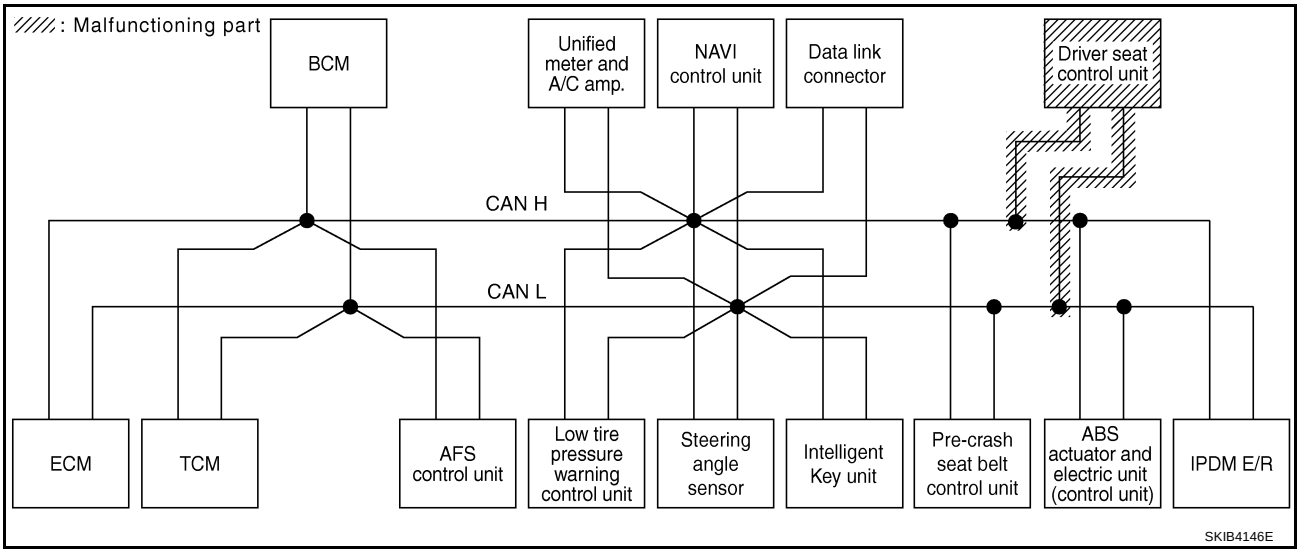
SKIB4145E

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		
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)	—

PKIB8415E



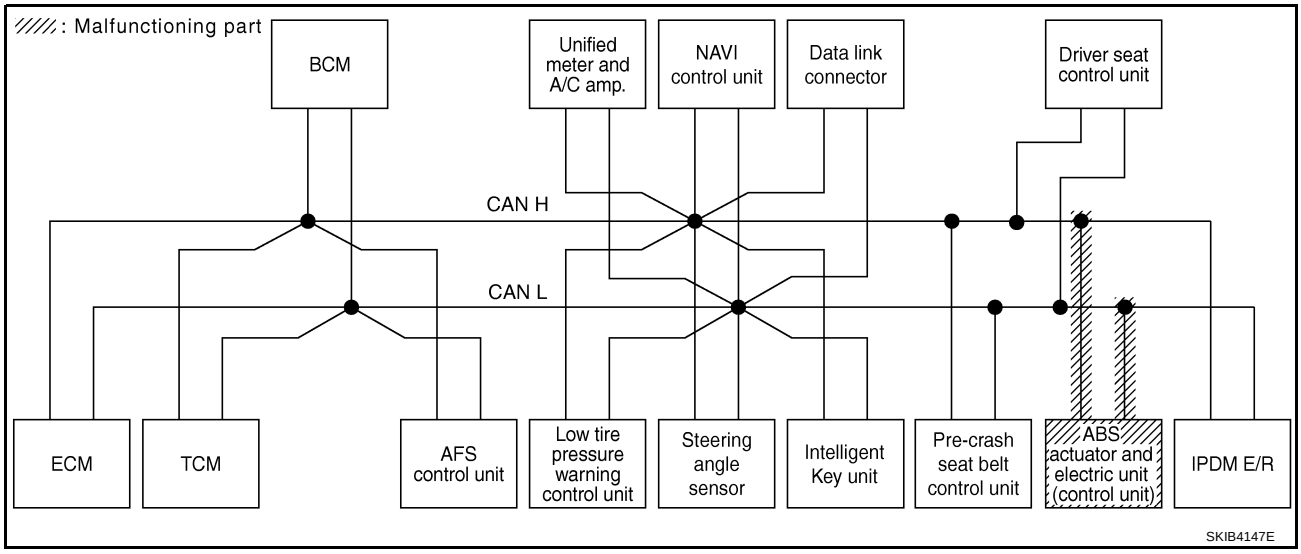
SKIB4146E

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 ✓	—	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)	—

PKIB8416E



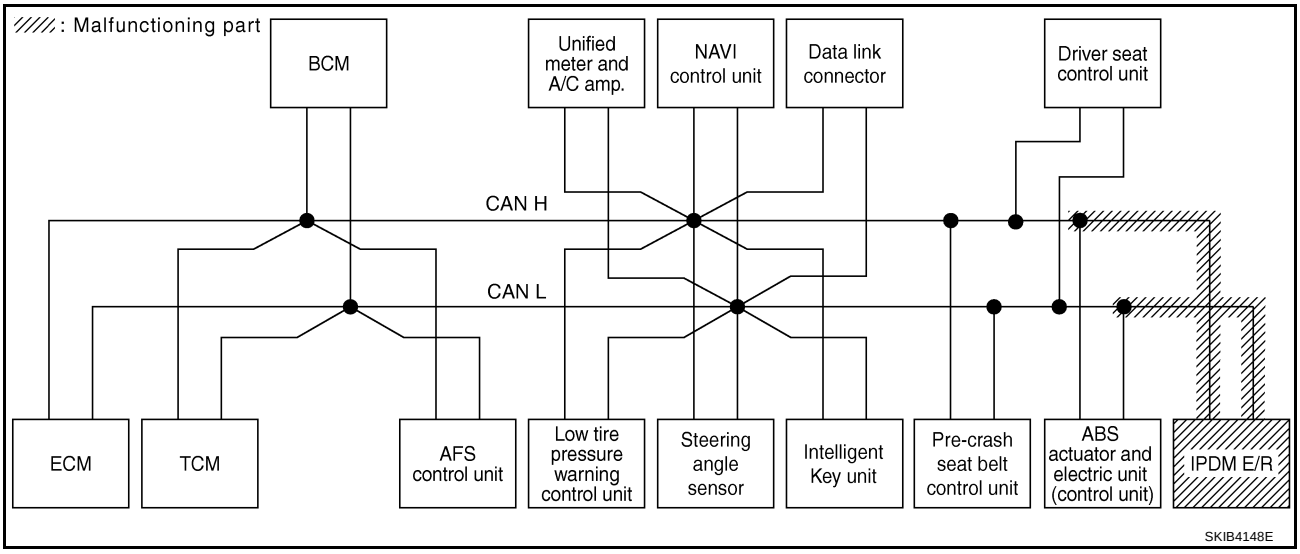
SKIB4147E

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												
				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) ✓	—

PKIB8417E



SKIB4148E

Case 19

Check CAN communication circuit. Refer to LAN-216, "CAN Communication Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
ENGINE	—	—	UNKWN	—	✓	—	✓	—	—	—	✓	—	✓	✓	✓	—
A/T	—	NG	UNKWN	✓	—	—	—	—	—	—	✓	—	✓	—	—	—
ADAPTIVE LIGHT	✓	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
BCM	✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—
AIR PRESSURE MONITOR	✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—
INTELLIGENT KEY	✓	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	—	—
METER A/C AMP	✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	—
MULTI AV	✓	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—
PRECRASH SEATBELT	✓	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—
AUTO DRIVE POS.	✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	✓	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—
IPDM E/R	✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	—

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: 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	SELF-DIAG RESULTS	
ENGINE	—	—	UNKWN	—	✓	—	UNKWN	—	—	—	UNKWN	—	✓	UNKWN	✓	—
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	✓	—	—	—	✓	—	UNKWN	—	—	UNKWN	—	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	✓	—	—	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	✓	—	UNKWN	—	—	—	UNKWN	—	✓	UNKWN	—	—
METER A/C AMP	No indication	—	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	—	—	—	—	—	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: 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	SELF-DIAG RESULTS	
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

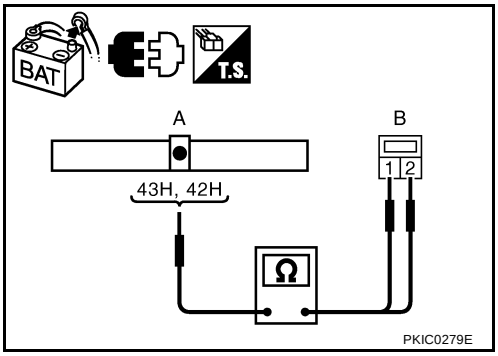
OK or NG

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



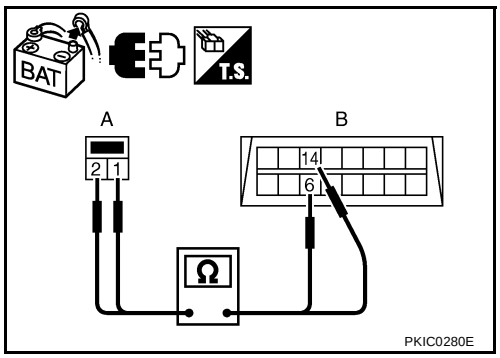
PKIC0279E

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

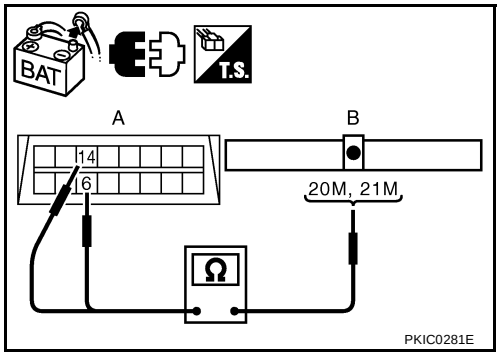
OK or NG

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

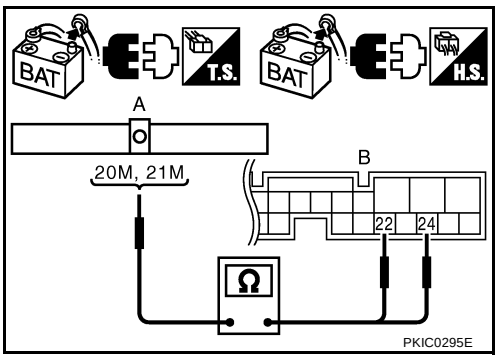
OK >> GO TO 3.

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

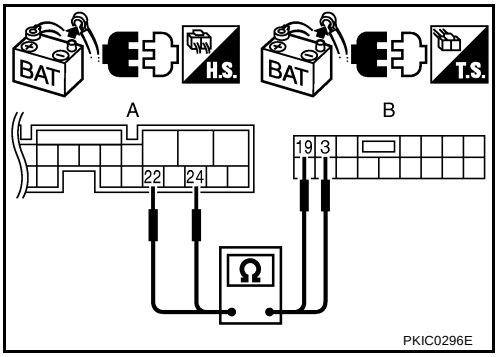
1. CHECK CONNECTOR

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

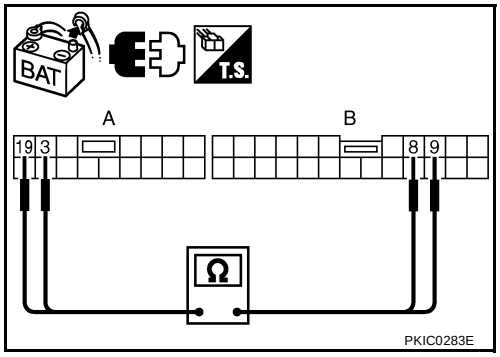
OK >> GO TO 2.

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



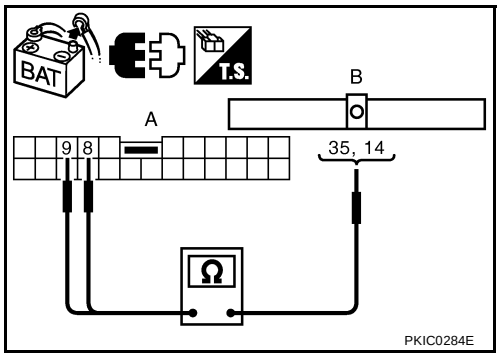
OK or NG

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

NKS003ZZ

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).

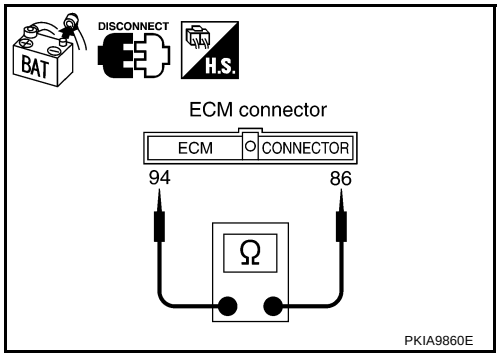
OK or NG

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

NKS00400

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

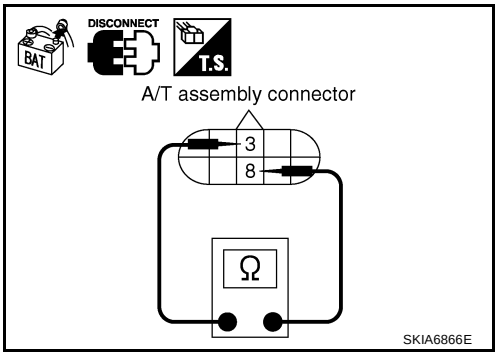
OK or NG

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

NKS00401

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

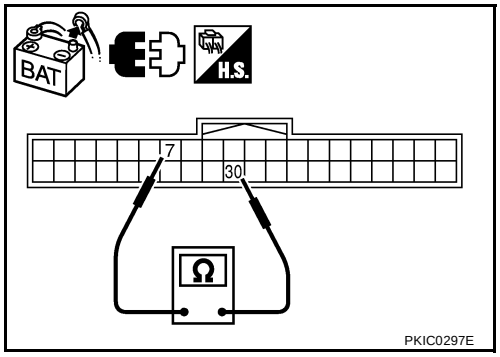
OK or NG

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

NKS00402

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).

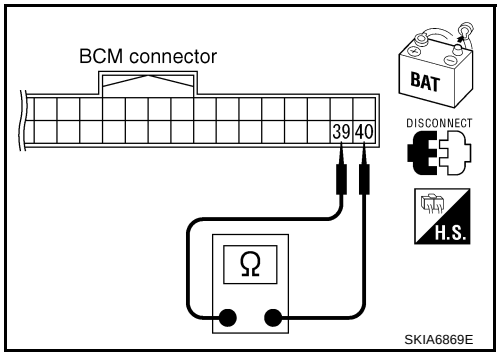
OK or NG

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

NKS00403

1. CHECK CONNECTOR

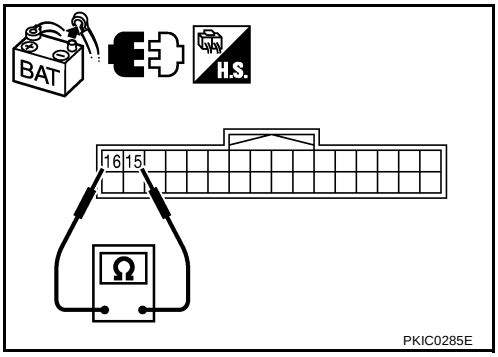
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

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

NKS00404

1. CHECK CONNECTOR

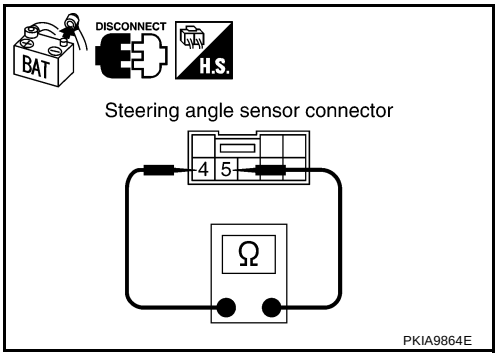
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

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.

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).

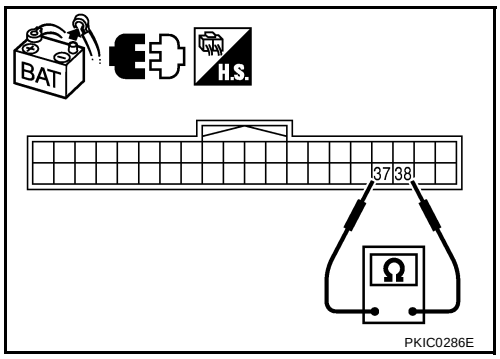
OK or NG

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

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

NKS00406

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).

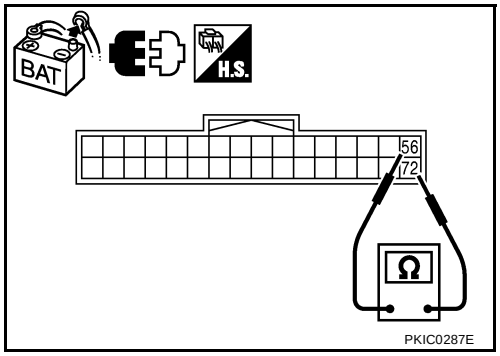
OK or NG

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

NKS00407

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

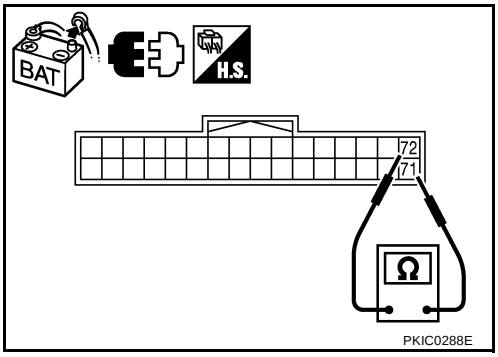
OK or NG

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

NKS00408

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).

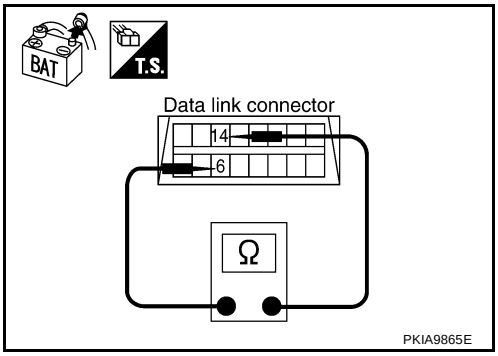
OK or NG

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

NKS00409

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).

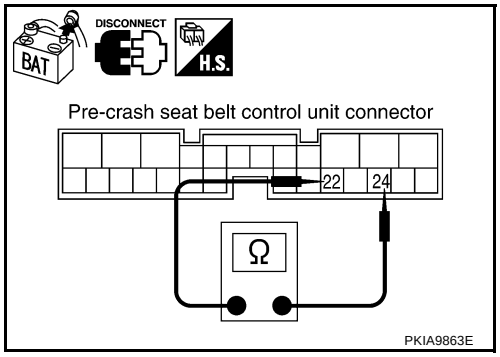
OK or NG

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

NKS0040A

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

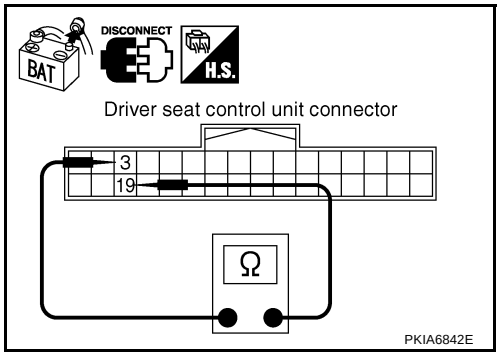
OK or NG

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

NKS0040B

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).

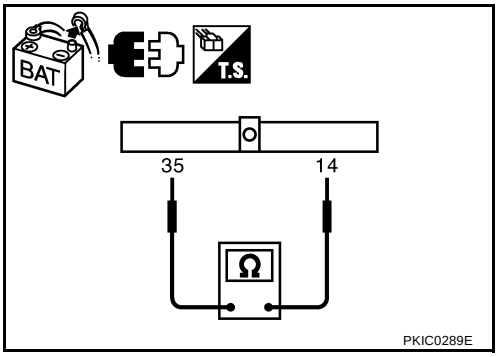
OK or NG

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

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).

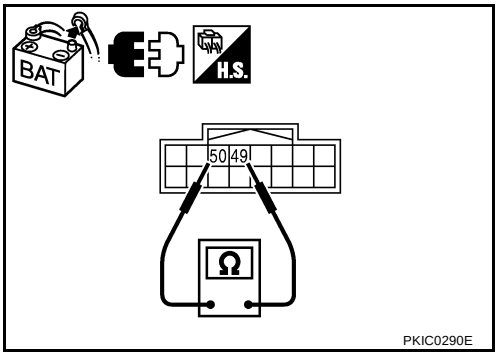
OK or NG

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.)
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

NKS0040D

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.

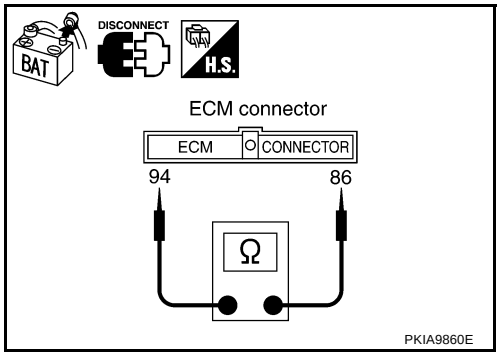
2. CHECK HARNESS FOR SHORT CIRCUIT

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

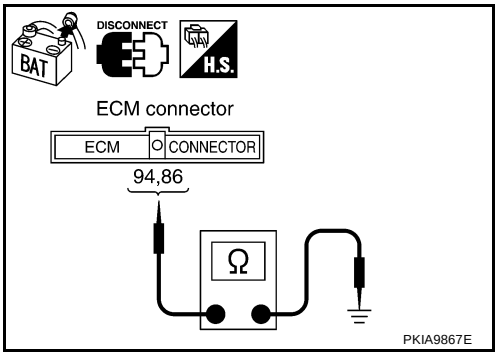
OK >> GO TO 3.
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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		No
	86		No



OK or NG

OK >> GO TO 4.

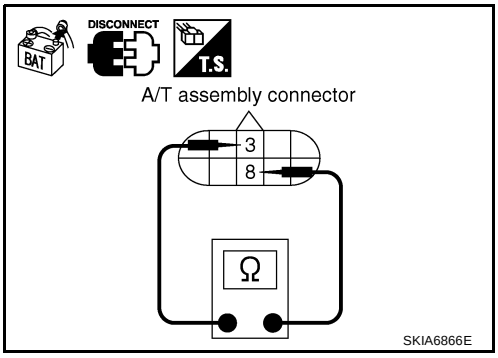
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

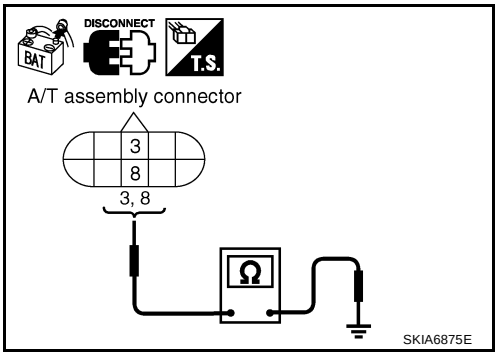
OK >> GO TO 5.

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

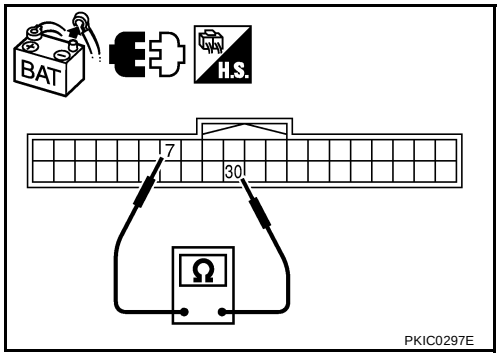
OK >> GO TO 6.

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

6. CHECK HARNESS FOR SHORT CIRCUIT

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

AFS control unit connector	Terminal		Continuity
F110	30	7	No



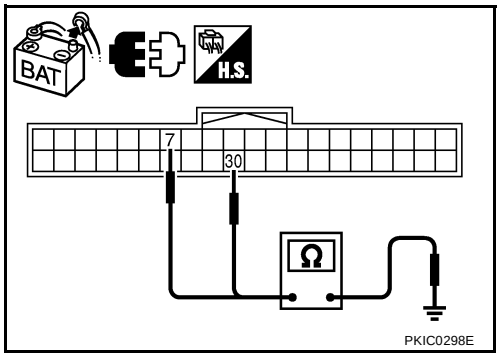
OK or NG

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



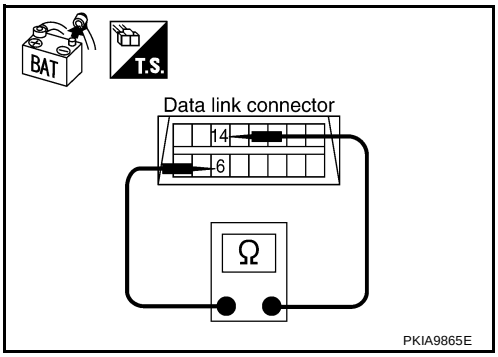
OK or NG

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

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

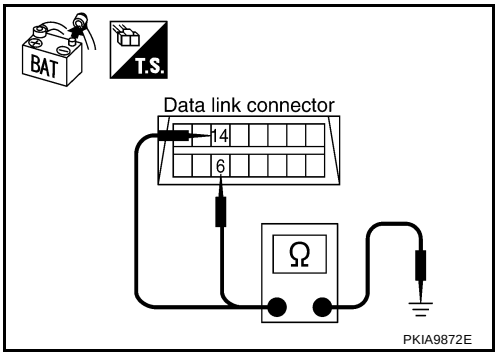
OK >> GO TO 9.

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

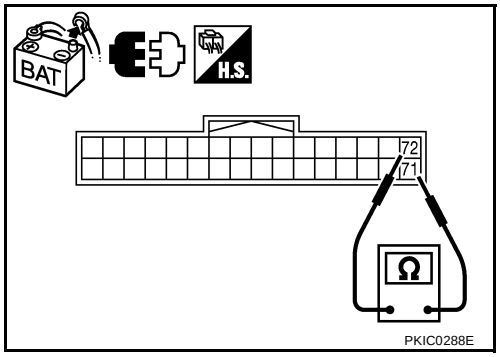
OK >> GO TO 10.

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

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



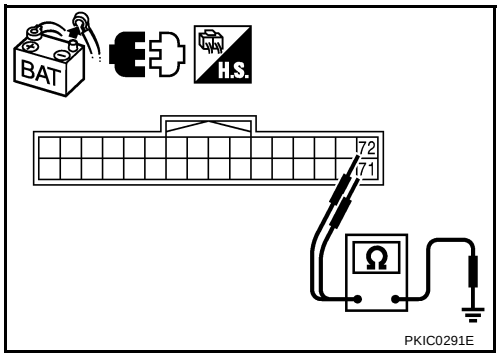
OK or NG

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



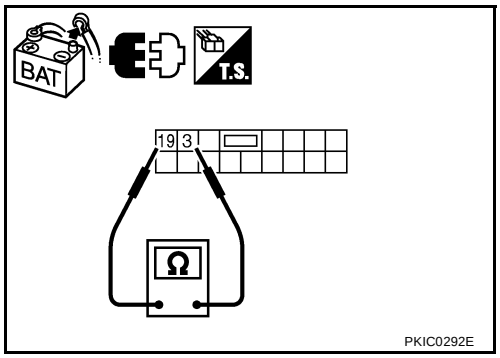
OK or NG

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

12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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



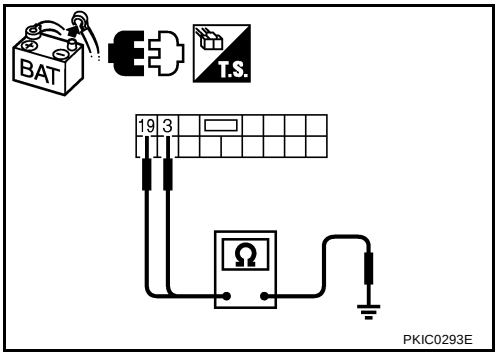
OK or NG

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

13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No



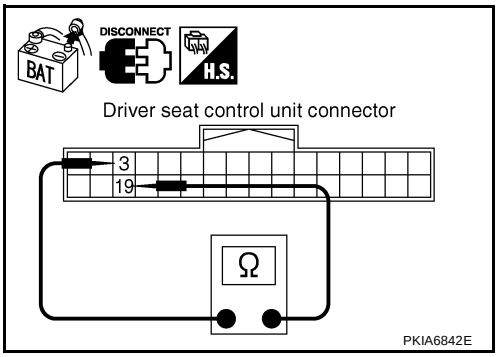
OK or NG

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



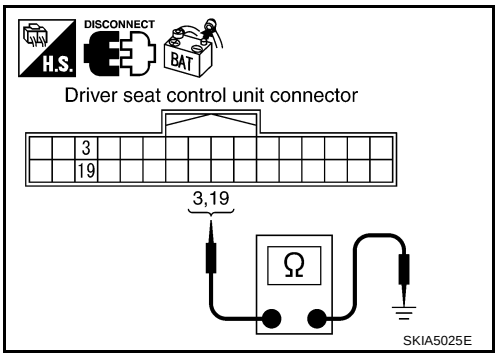
OK or NG

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

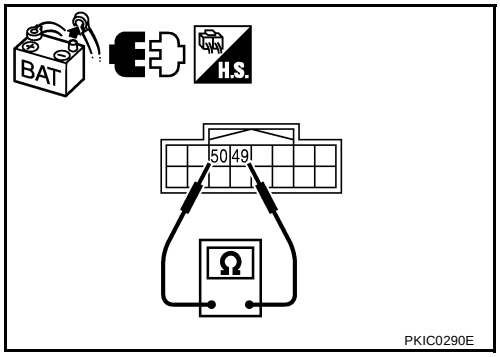


OK or NG

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

16. CHECK HARNESS FOR SHORT CIRCUIT

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



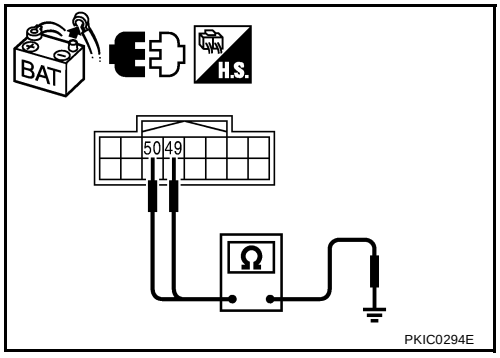
IPDM E/R connector	Terminal		Continuity
E9	49	50	No

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.



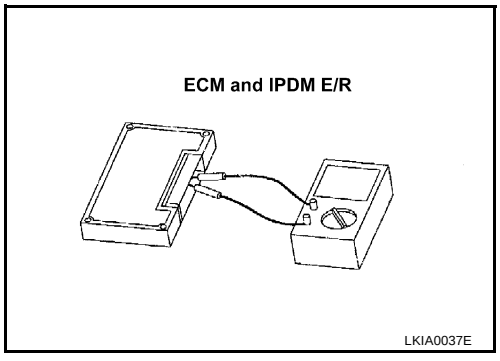
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		No
	50		No

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.

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”" .

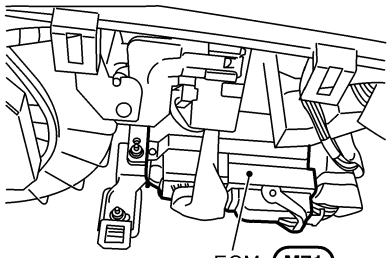
CAN SYSTEM (TYPE 5)

PFP:23710

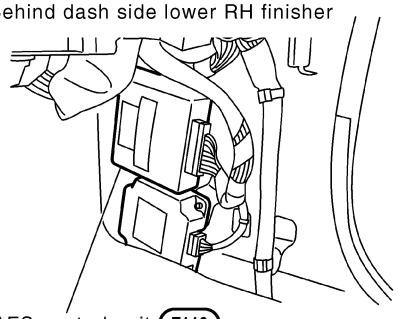
Component Parts and Harness Connector Location

NKS0040F

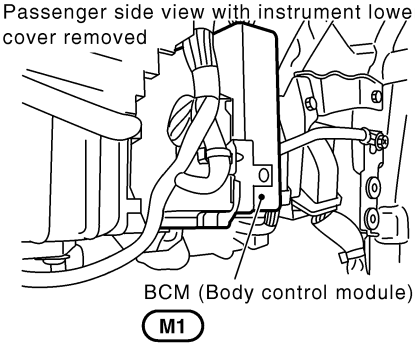
Passenger side view with instrument lower cover removed

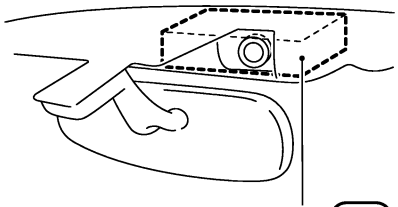


Behind dash side lower RH finisher

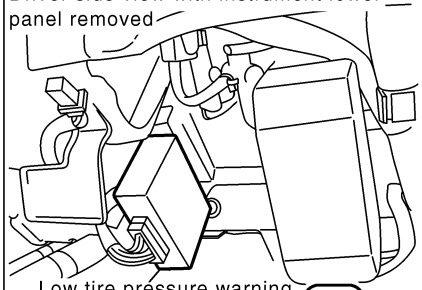


Passenger side view with instrument lower cover removed

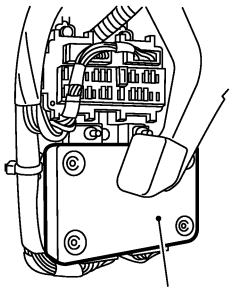




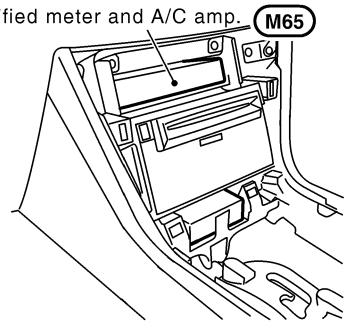
Driver side view with instrument lower panel removed



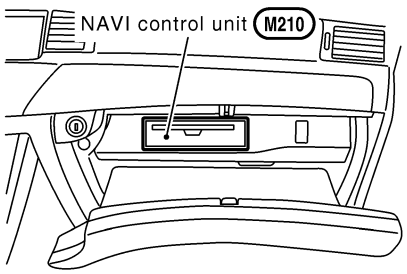
Behind dash side lower LH finisher



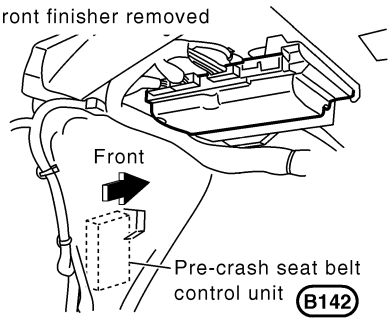
View with cluster lid C removed
Unified meter and A/C amp.
M65



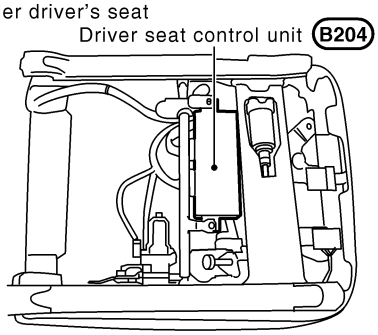
Inside of glove box



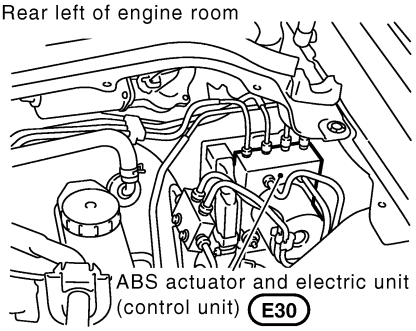
View with trunk side LH finisher and front finisher removed



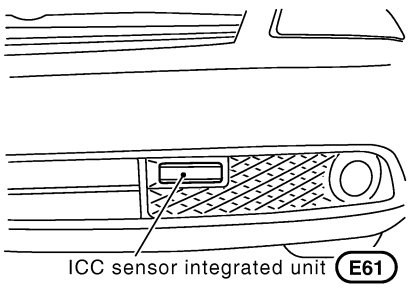
Under driver's seat



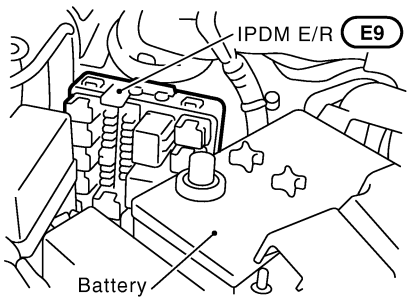
Rear left of engine room



Bumper LH



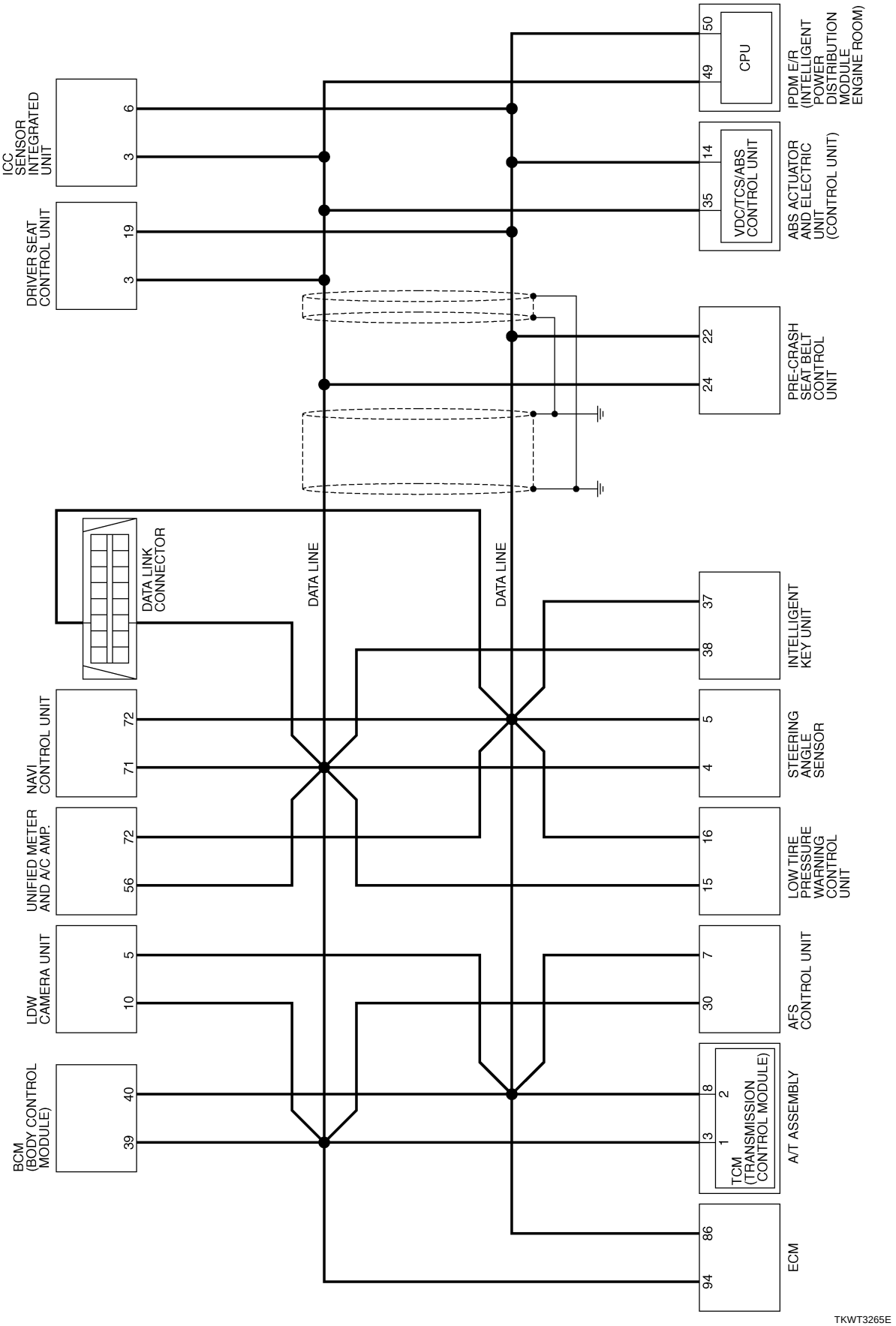
View with cowl top cover removed



PKIC0603E

Schematic

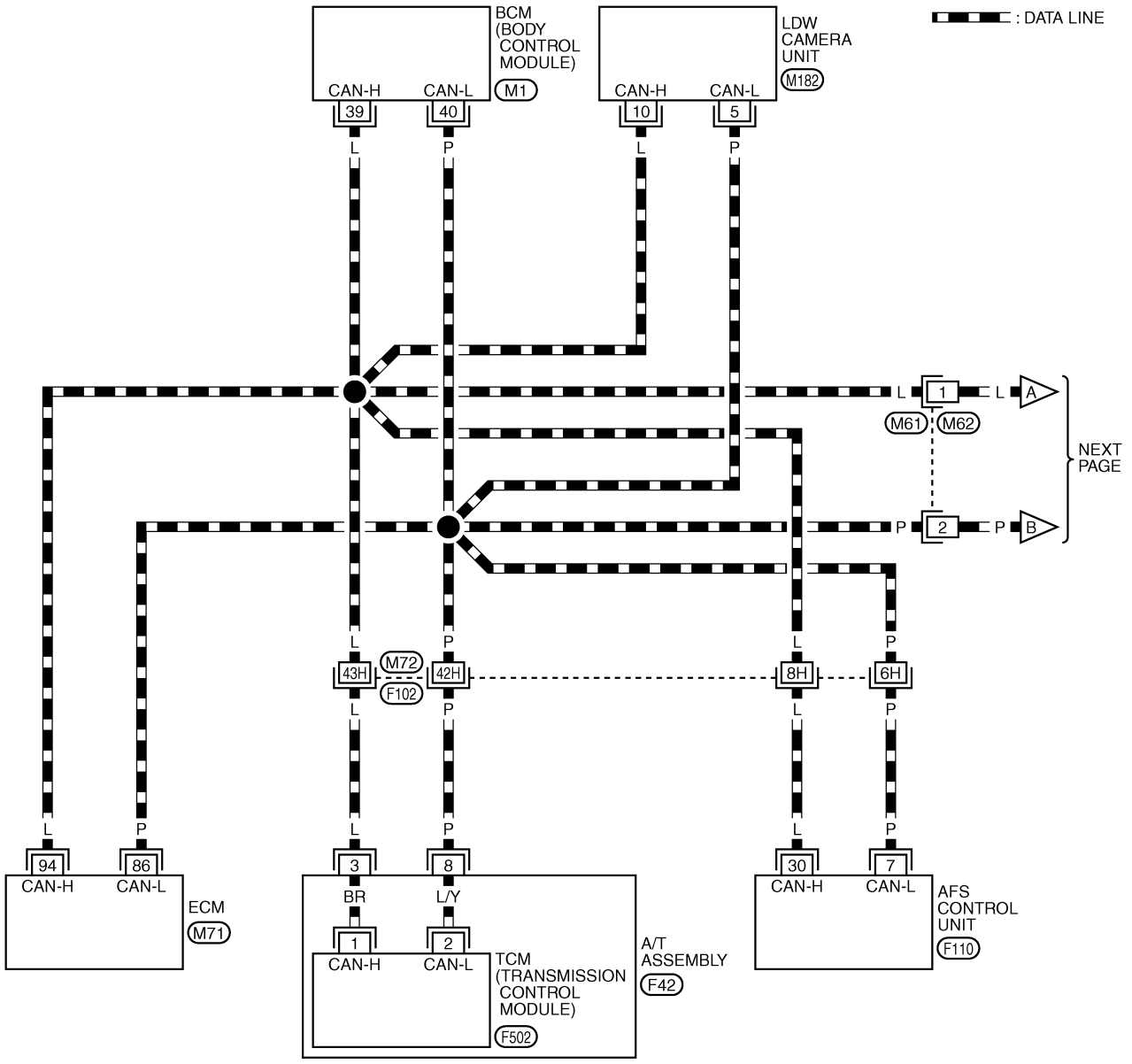
NKS0040G

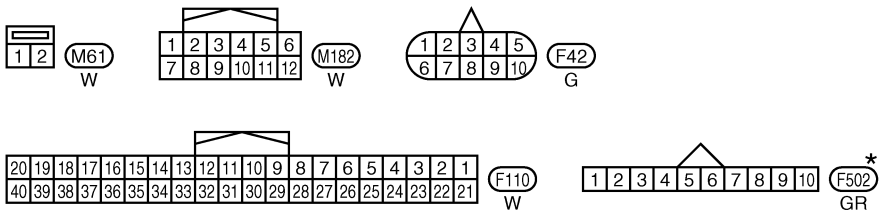


Wiring Diagram — CAN —

NKS0040H

LAN-CAN-15





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

REFER TO THE FOLLOWING.

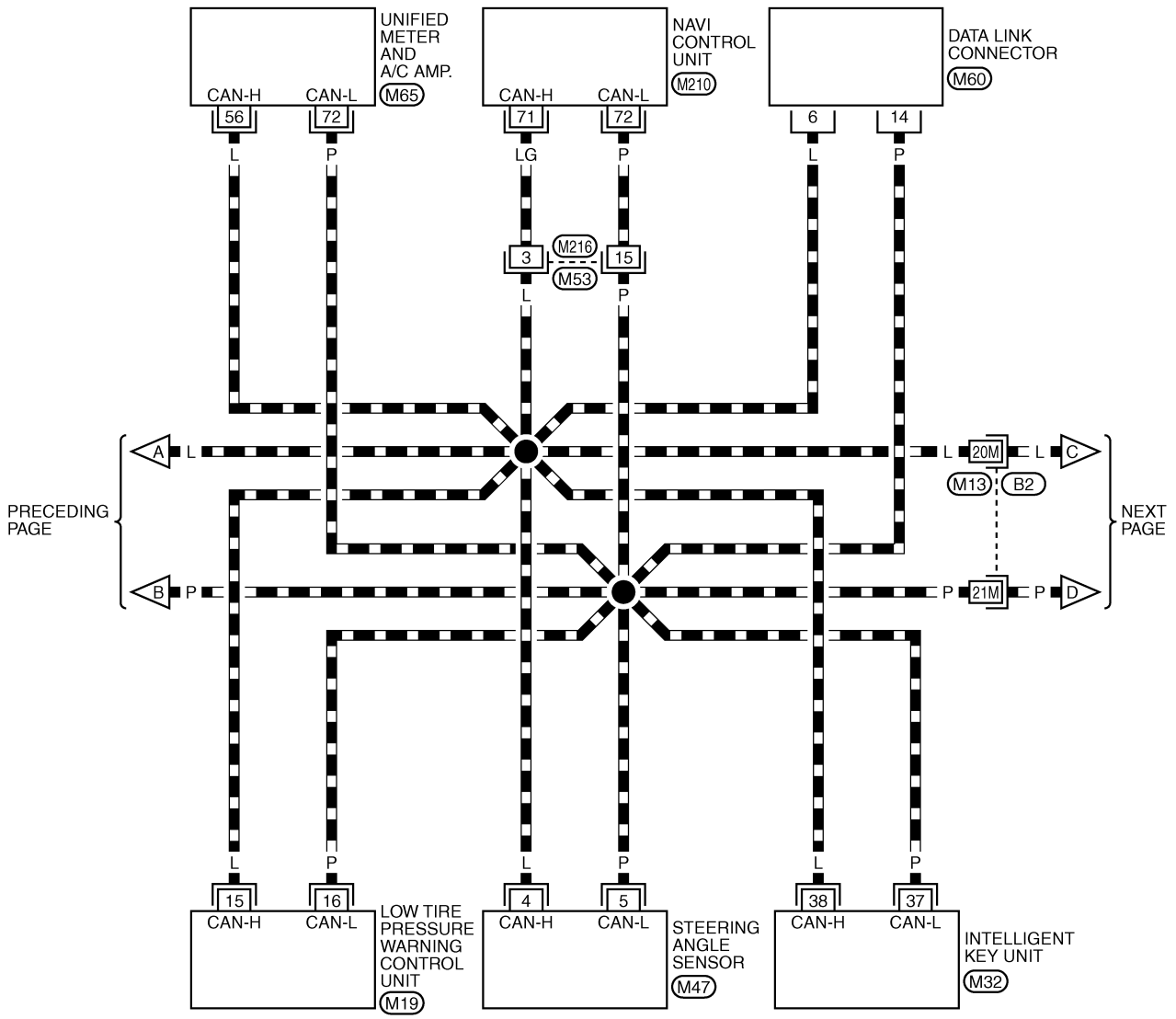
F102 -SUPER MULTIPLE JUNCTION (SMJ)

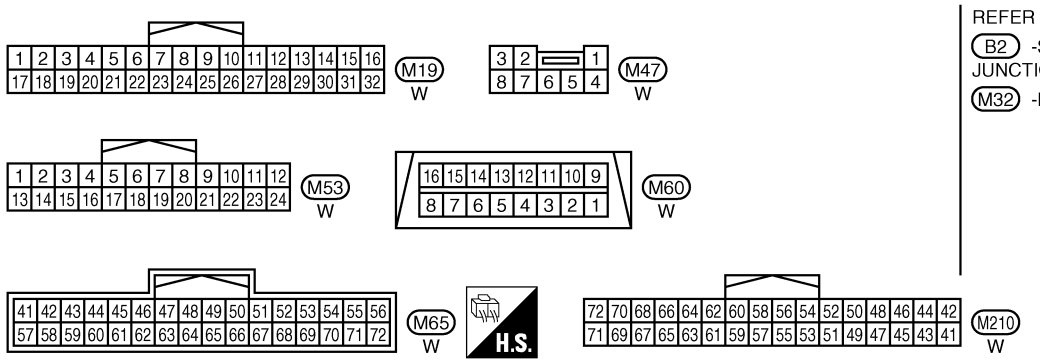
M1 , M71 -ELECTRICAL UNITS

TKWT3266E

LAN-CAN-16

: DATA LINE





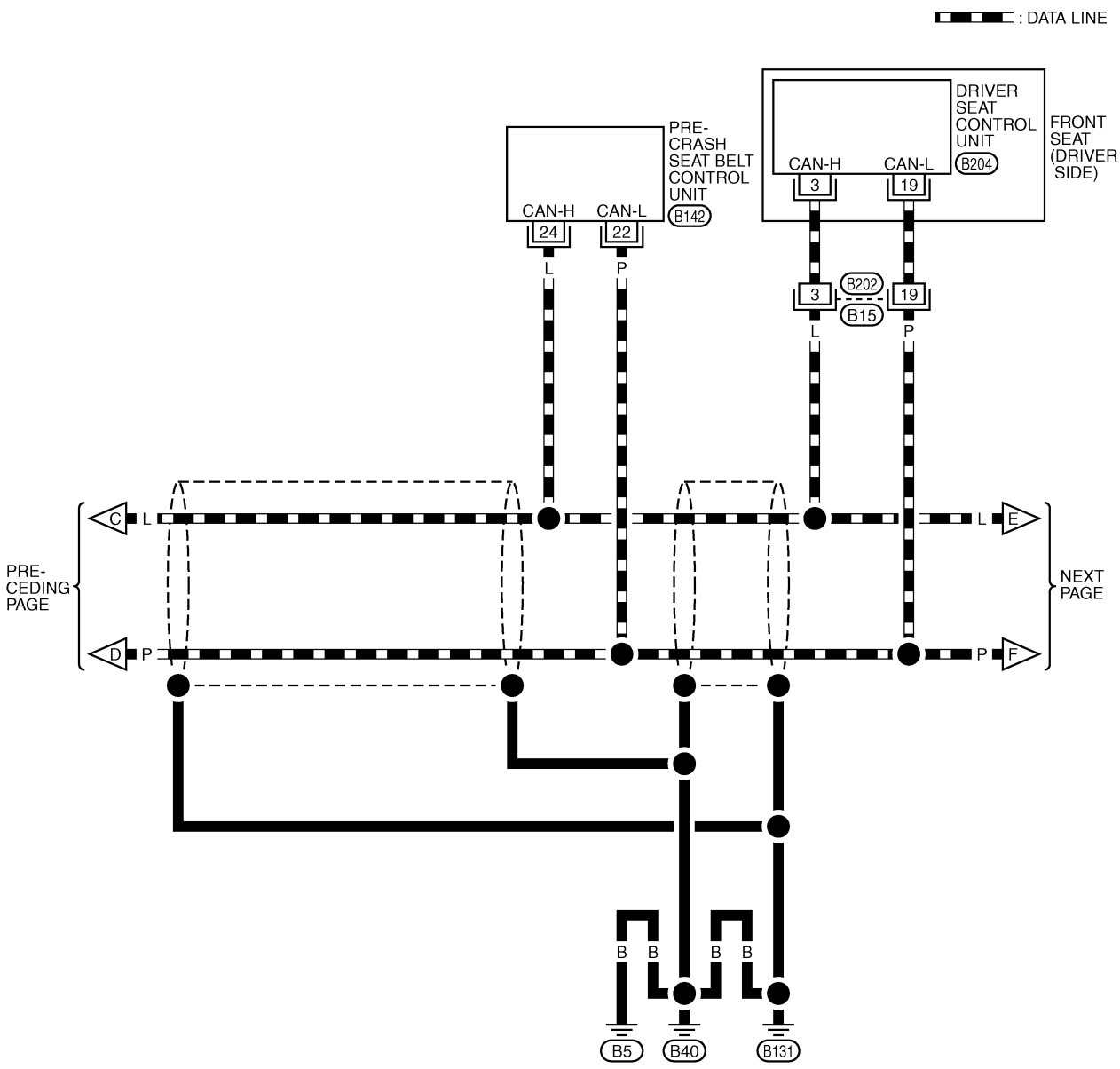
REFER TO THE FOLLOWING.

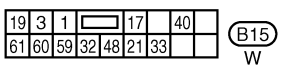
B2 -SUPER MULTIPLE JUNCTION (SMJ)

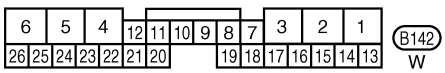
M32 -ELECTRICAL UNITS

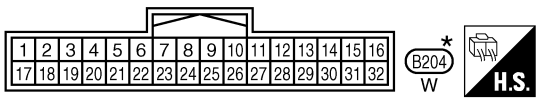
TKWT3267E

LAN-CAN-17







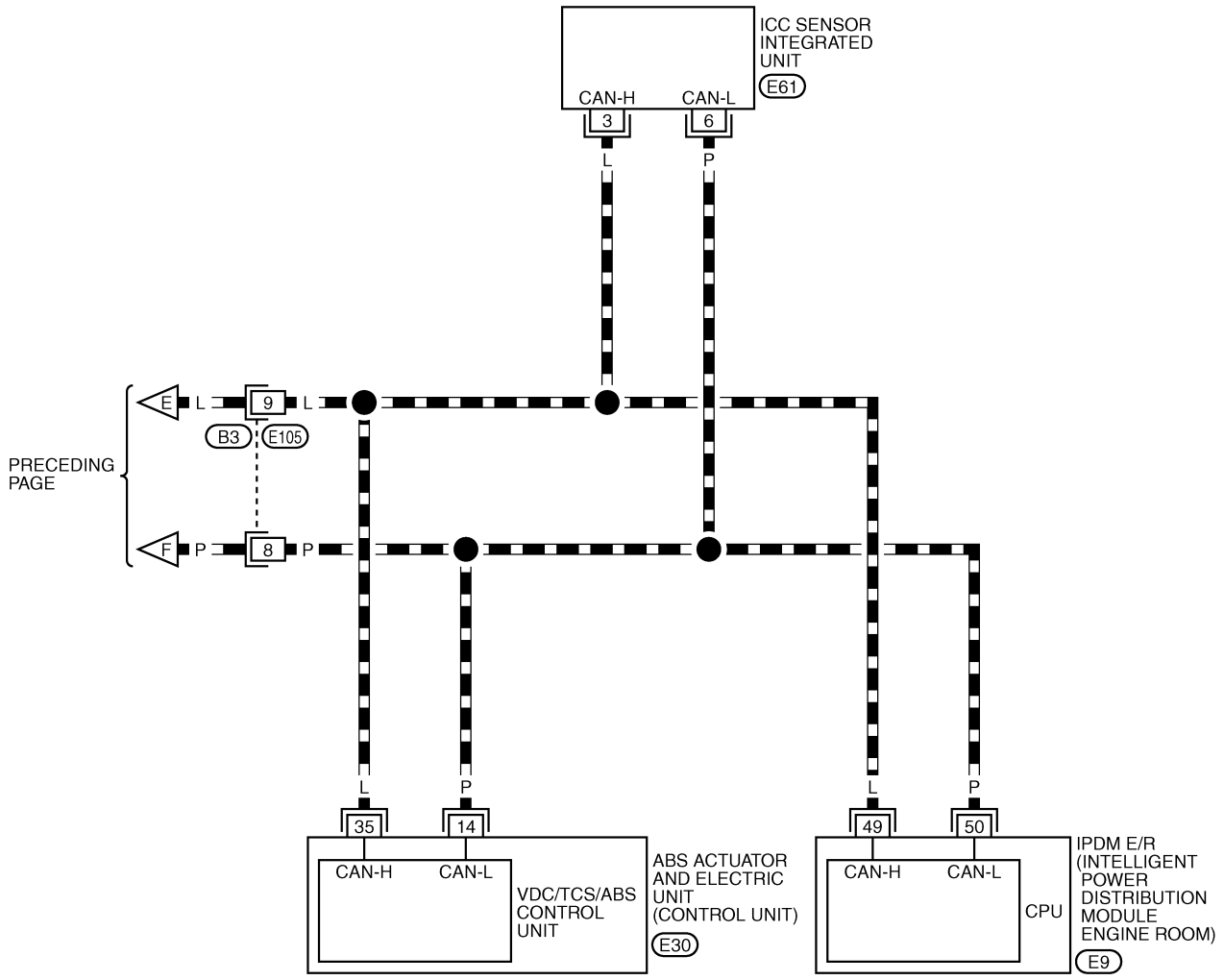


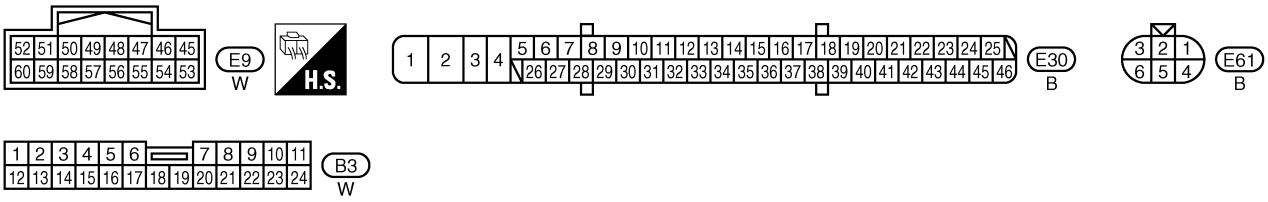
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3268E

LAN-CAN-18

: DATA LINE





TKWT3269E

Check Sheet

NKS0040I

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

Check sheet table

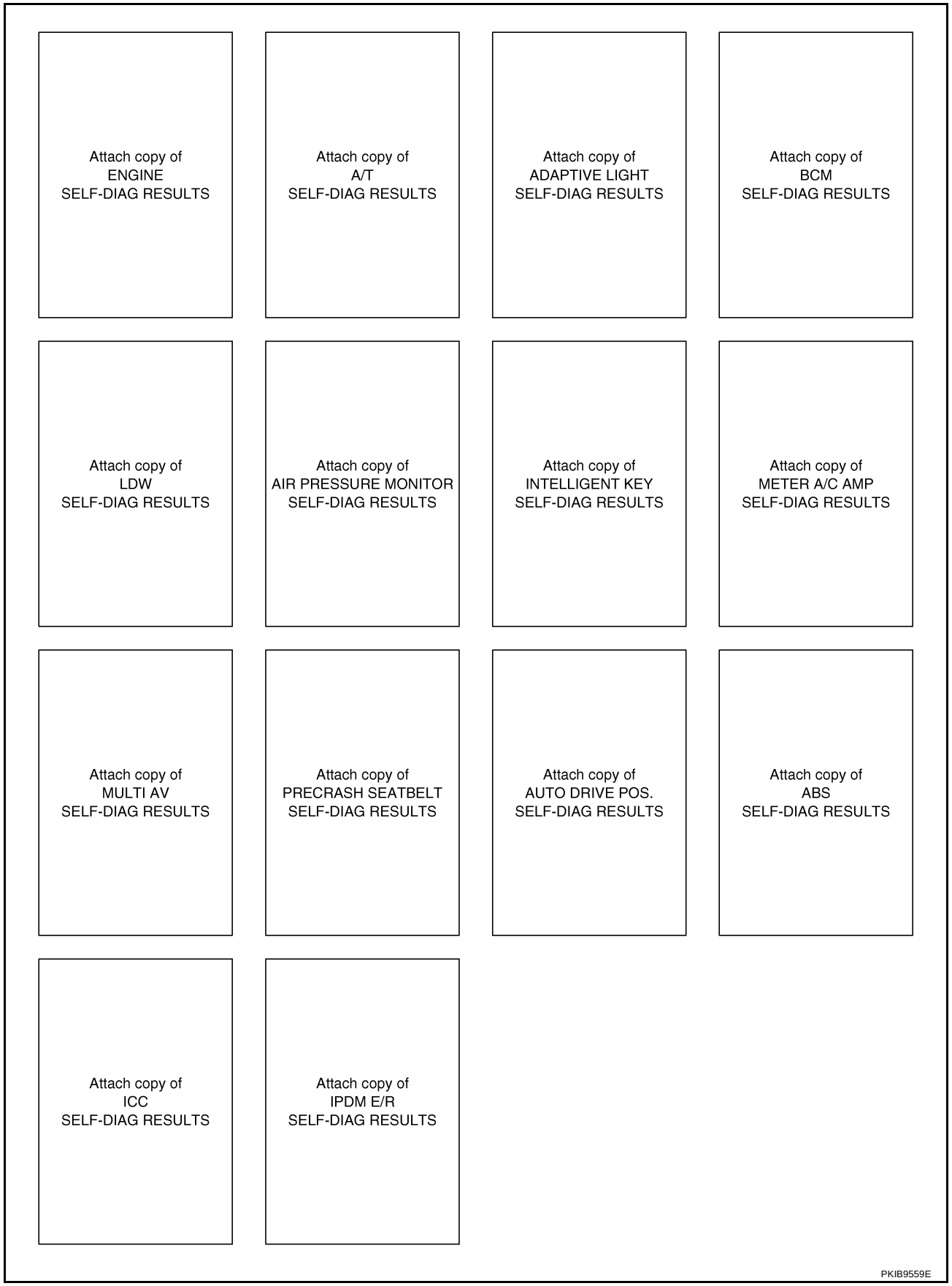
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	ICC/ e4WD	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	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


Attach copy of
ENGINE
SELF-DIAG RESULTS
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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
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SELF-DIAG RESULTS
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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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ICC
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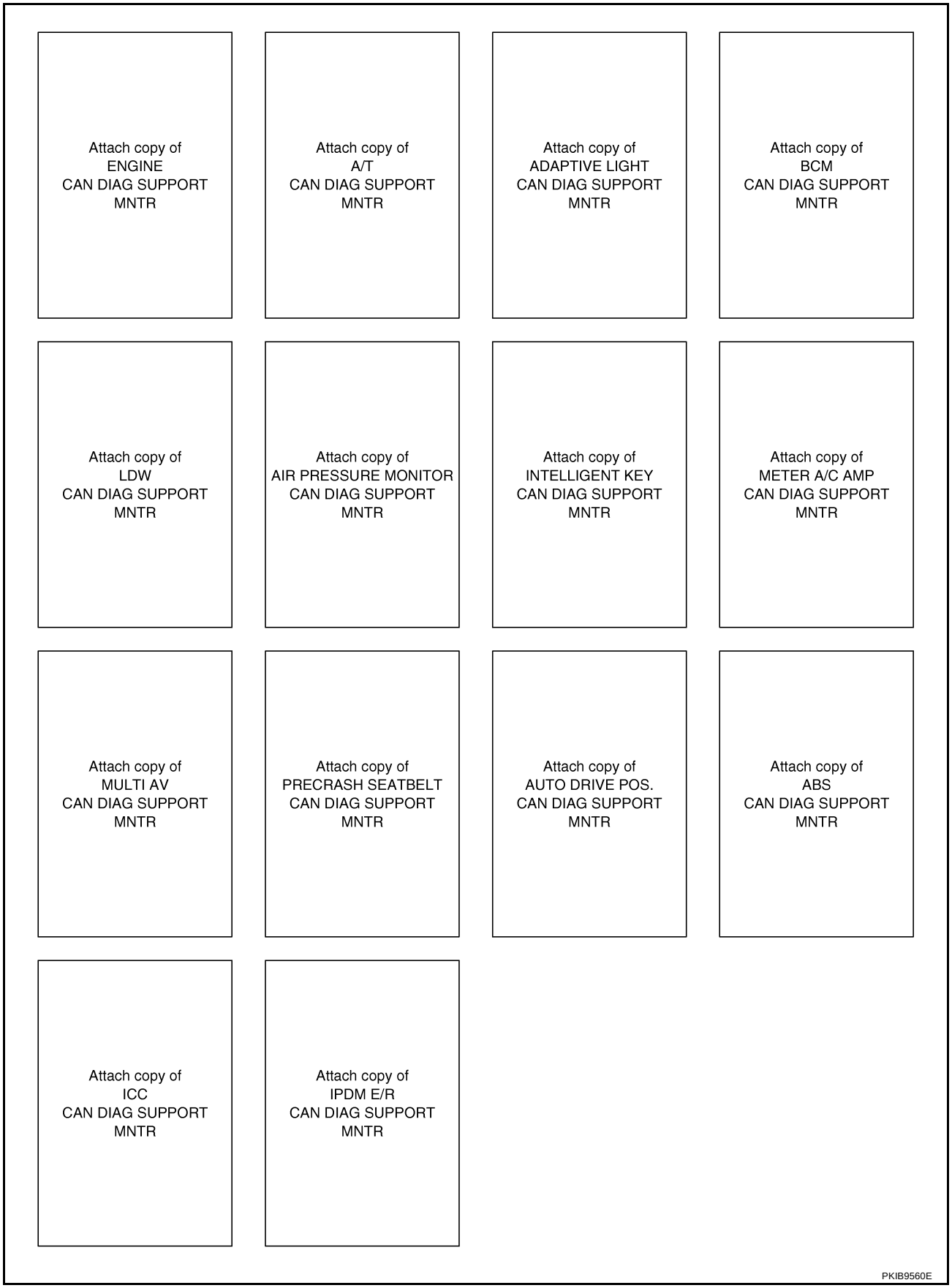
IPDM E/R
SELF-DIAG RESULTS
PKIB9559E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ENGINE
CAN DIAG SUPPORT
MNTR
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A/T
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MNTR
Attach copy of
PRECRASH SEATBELT
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MNTR
Attach copy of
AUTO DRIVE POS.
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Attach copy of
ABS
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MNTR
Attach copy of
ICC
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB9560E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

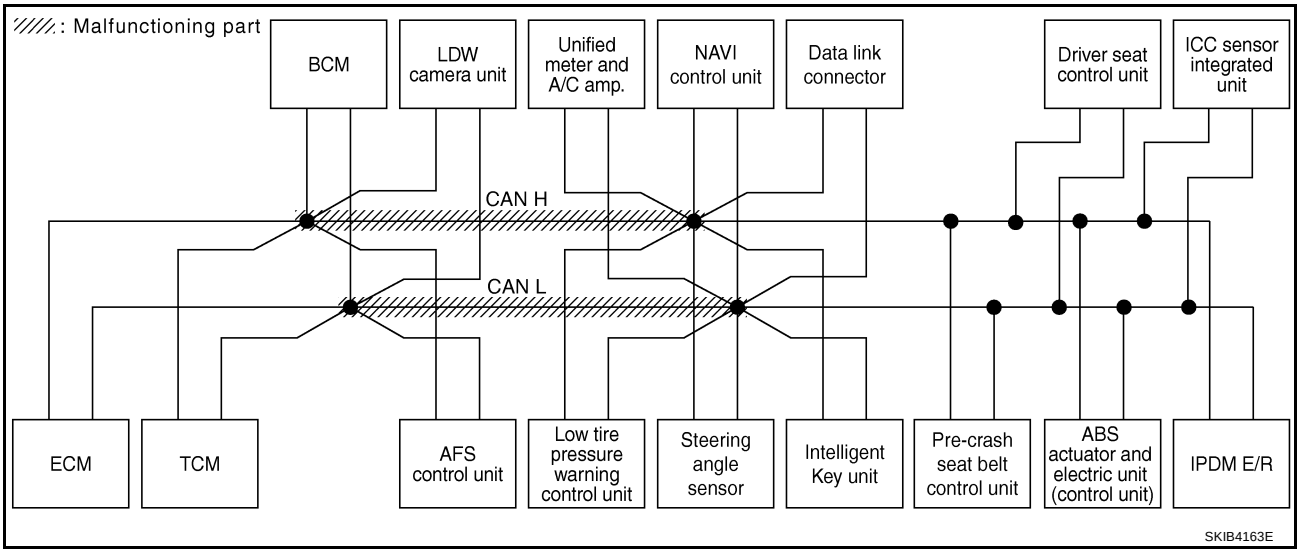
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to LAN-255, "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	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)	—

PKIB8422E



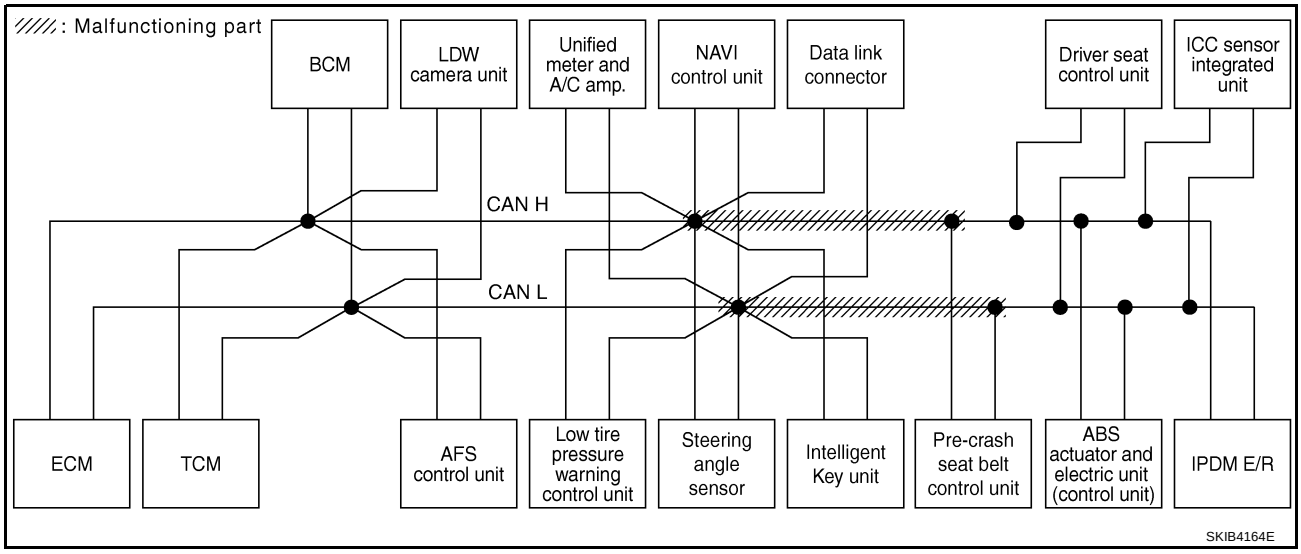
SKIB4163E

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													
				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	—	✓	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	✓	✓	—	✓	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	✓	✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	✓	✓	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	✓	—	—	✓	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	✓	—	—	✓	—
INTELLIGENT KEY	No indication	—	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	—	—	—	✓	✓	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	✓	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	✓	✓	—	—	—	✓	—	—	—	—	UNKWN	—	✓	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	✓	—

PKIB8423E

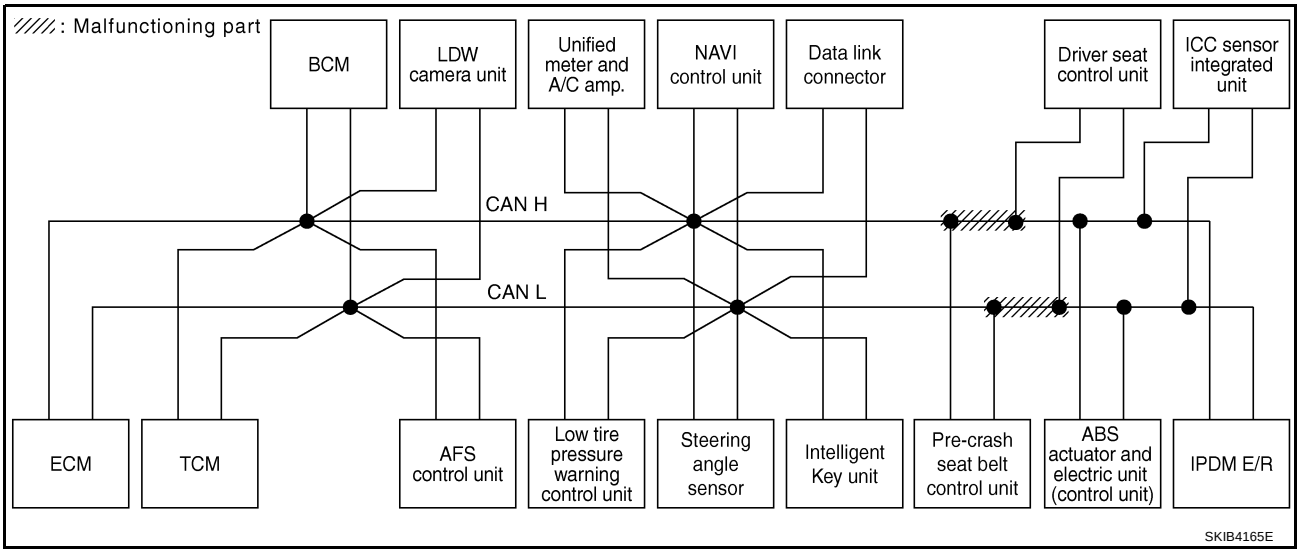


Case 3

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													
				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)	—

PKIB8424E



SKIB4165E

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													
				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)	—

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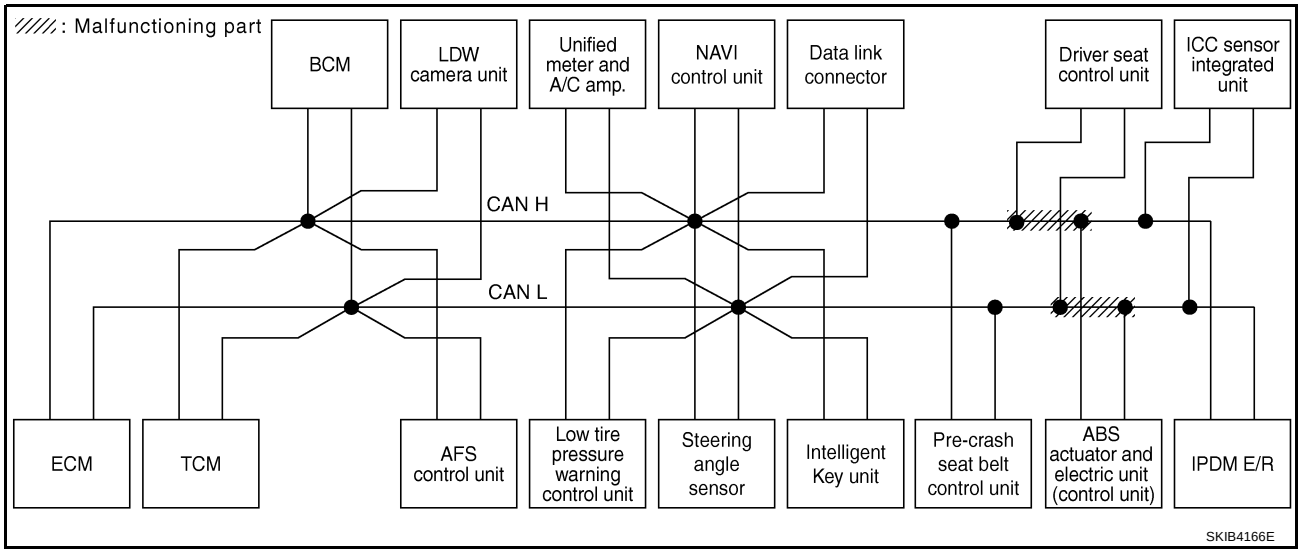

Case 5

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" .

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)	—

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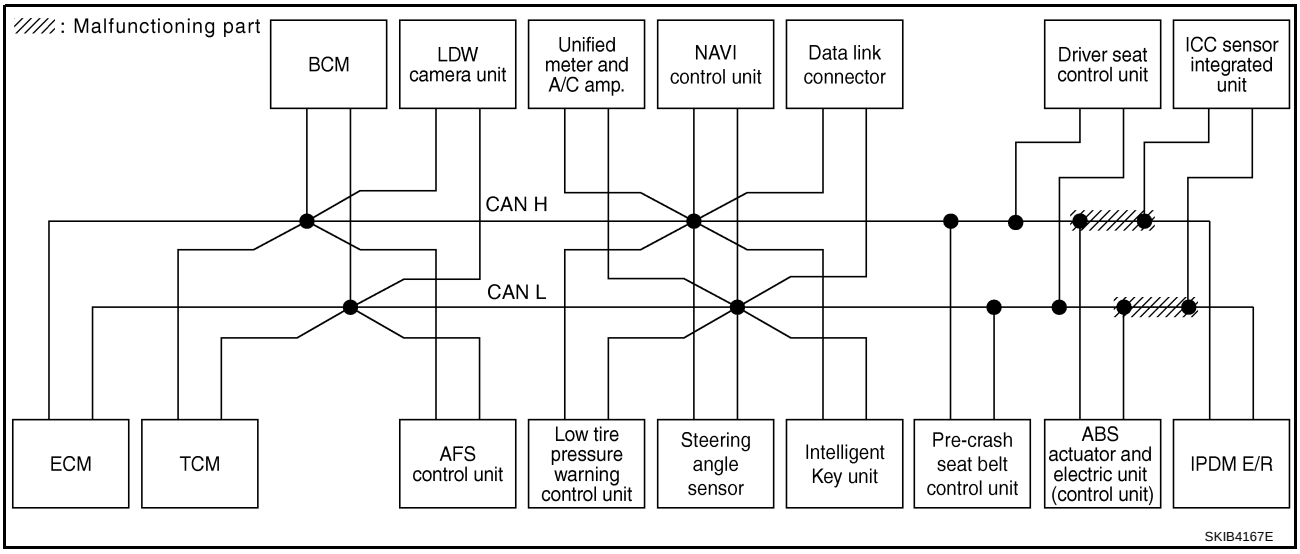


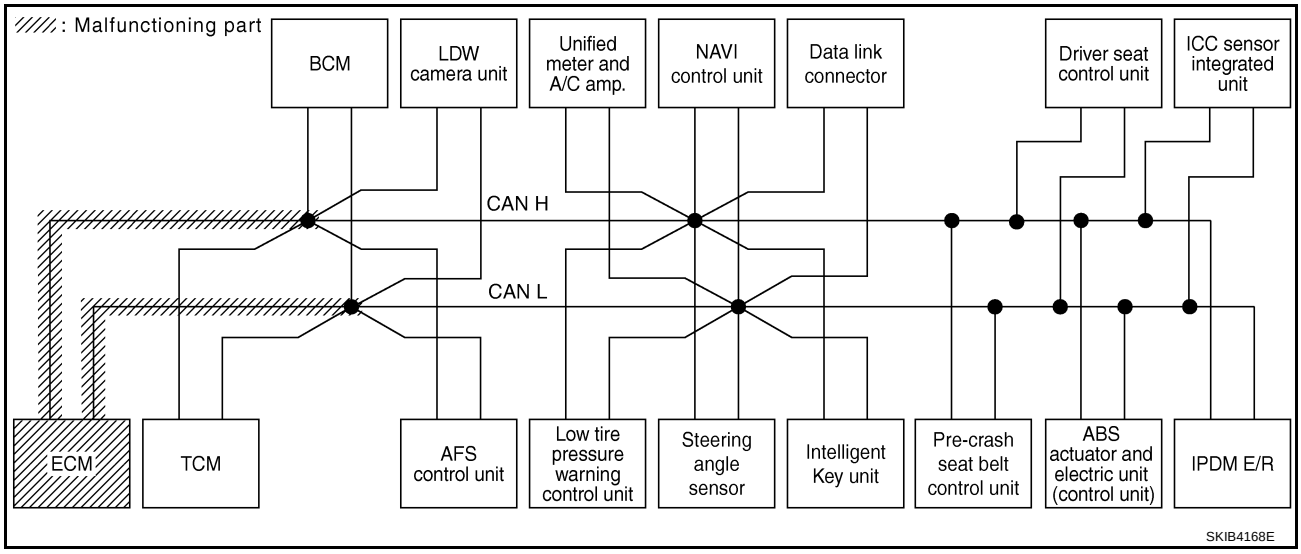
SKIB4167E

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	—	—	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)	—

PKIB8427E



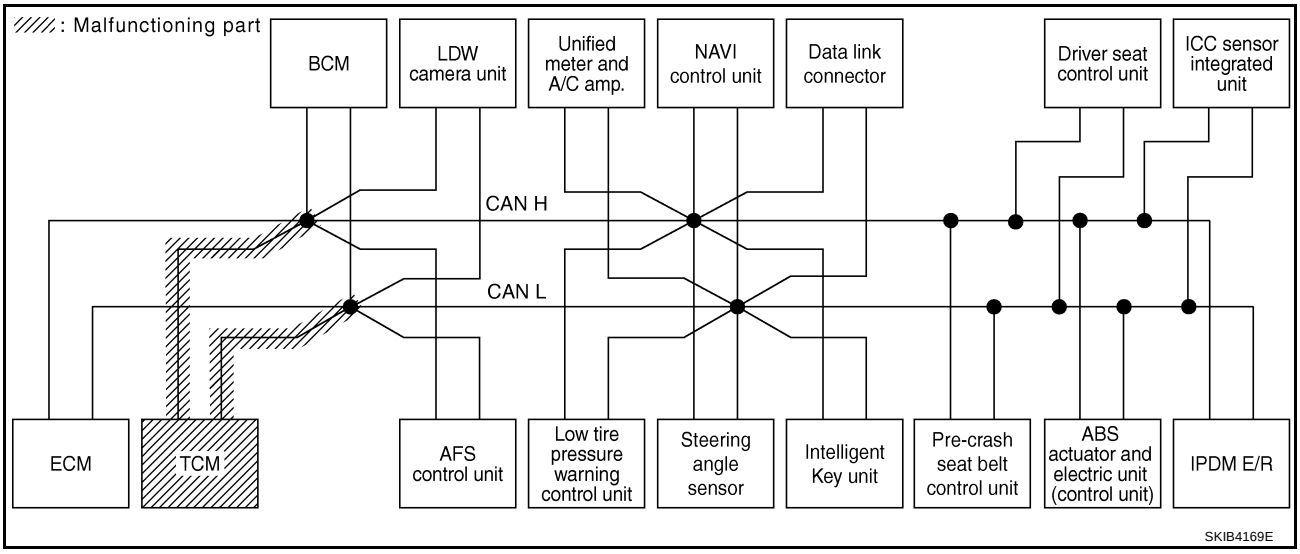
SKIB4168E

Case 7

Check TCM circuit. Refer to LAN-259, "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	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)	—

PKIB8428E



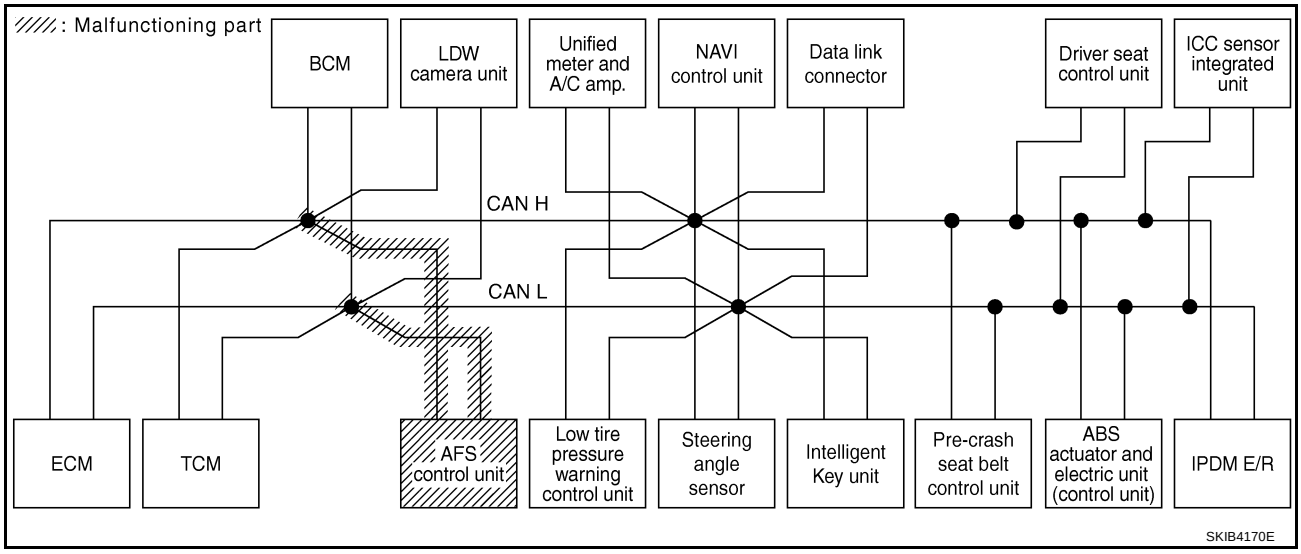
SKIB4169E

Case 8

Check AFS control unit circuit. Refer to LAN-260, "AFS Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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

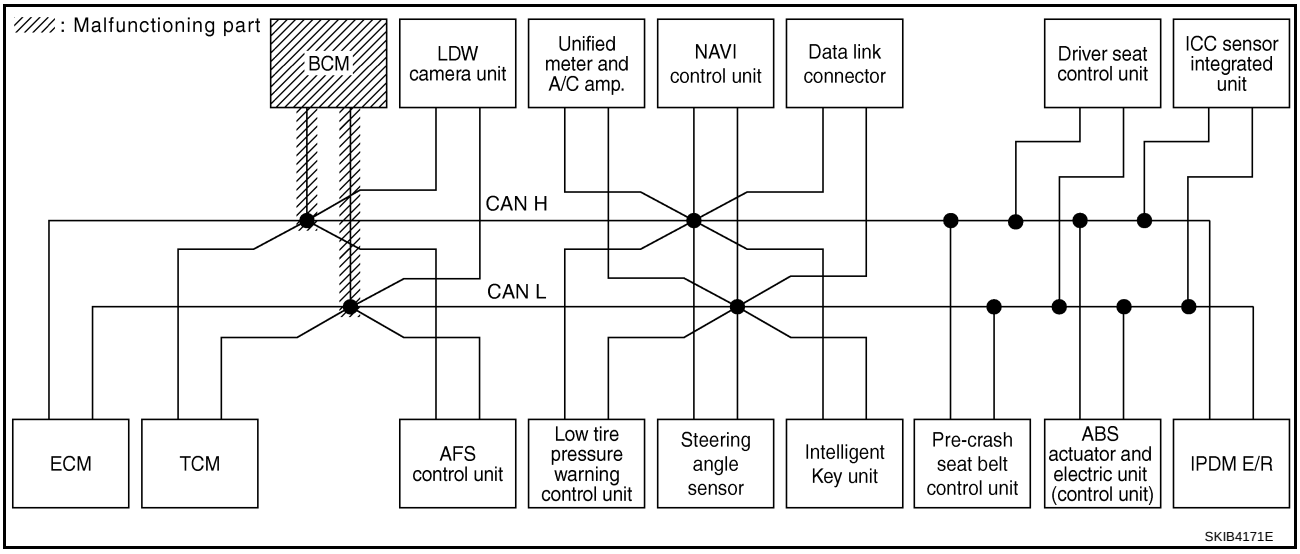


Case 9

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													
				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

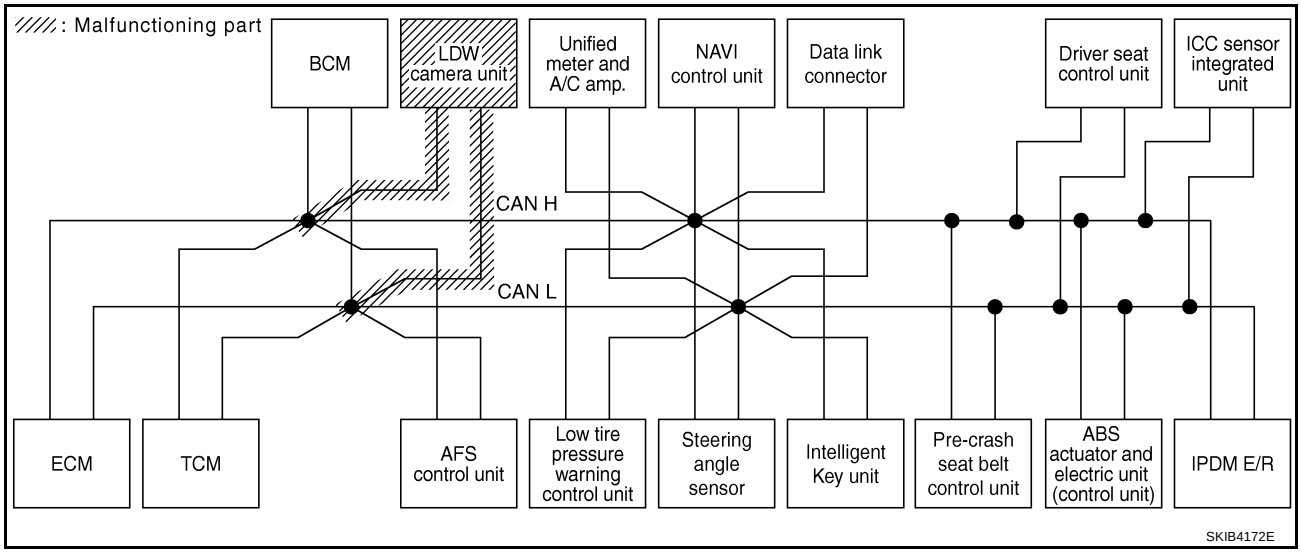


Case 10

Check LDW camera unit circuit. Refer to LAN-261, "LDW Camera Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

PKIB8431E

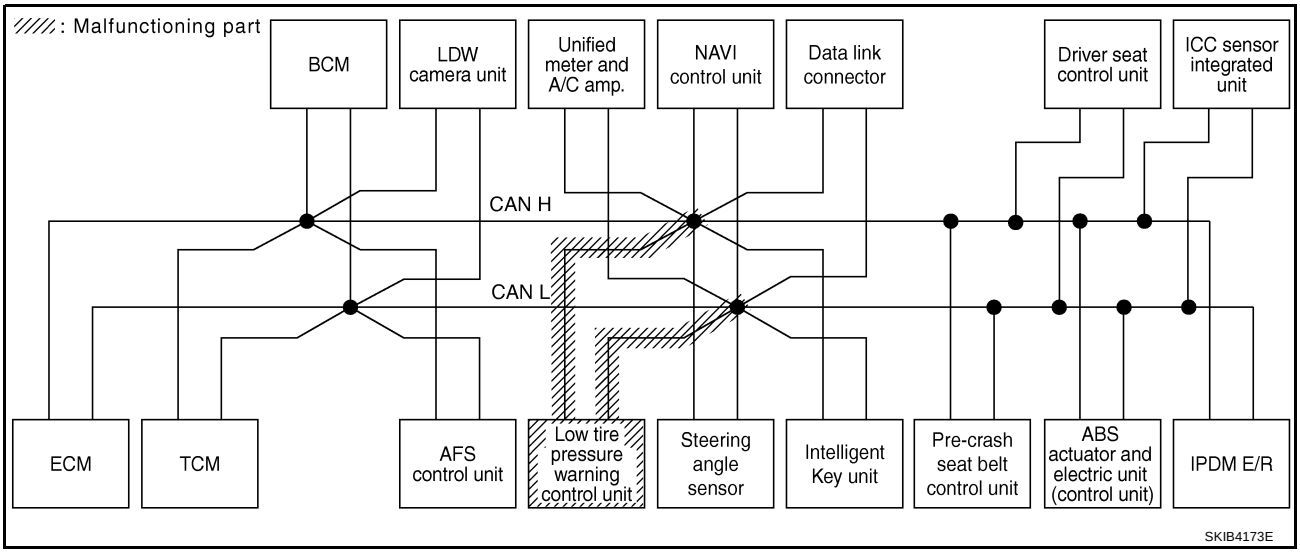


Case 11

Check low tire pressure warning control unit circuit. Refer to LAN-261, "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	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	✓	—	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	UNKWN	—	✓	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	✓	—	—	UNKWN	—	—	—	UNKWN	✓	—
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



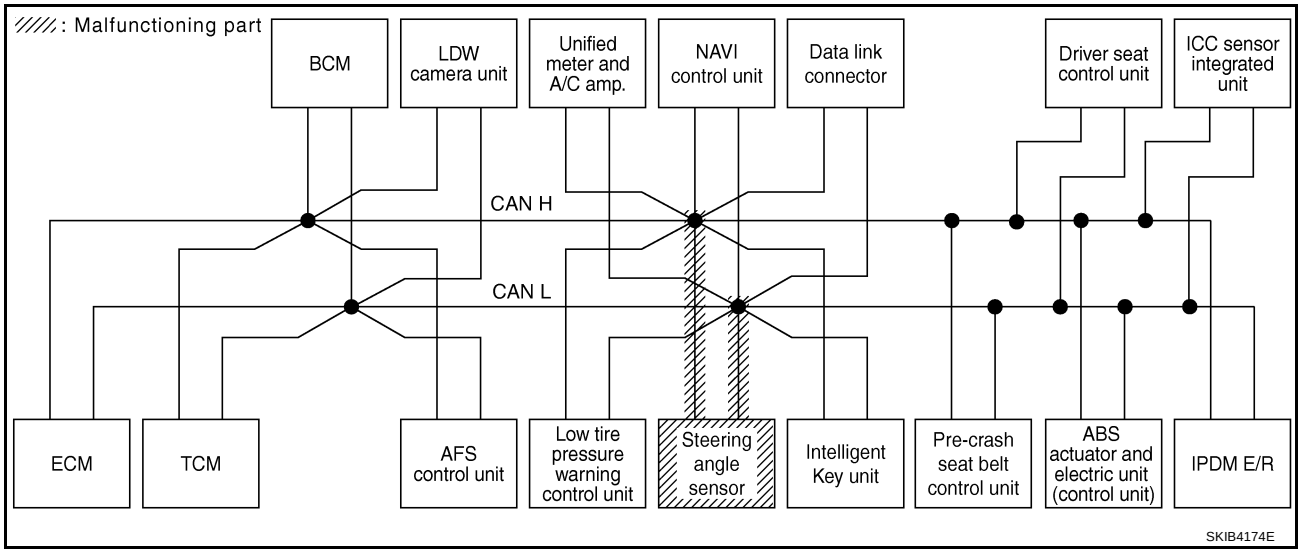
SKIB4173E

Case 12

Check steering angle sensor circuit. Refer to LAN-262, "Steering Angle Sensor Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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

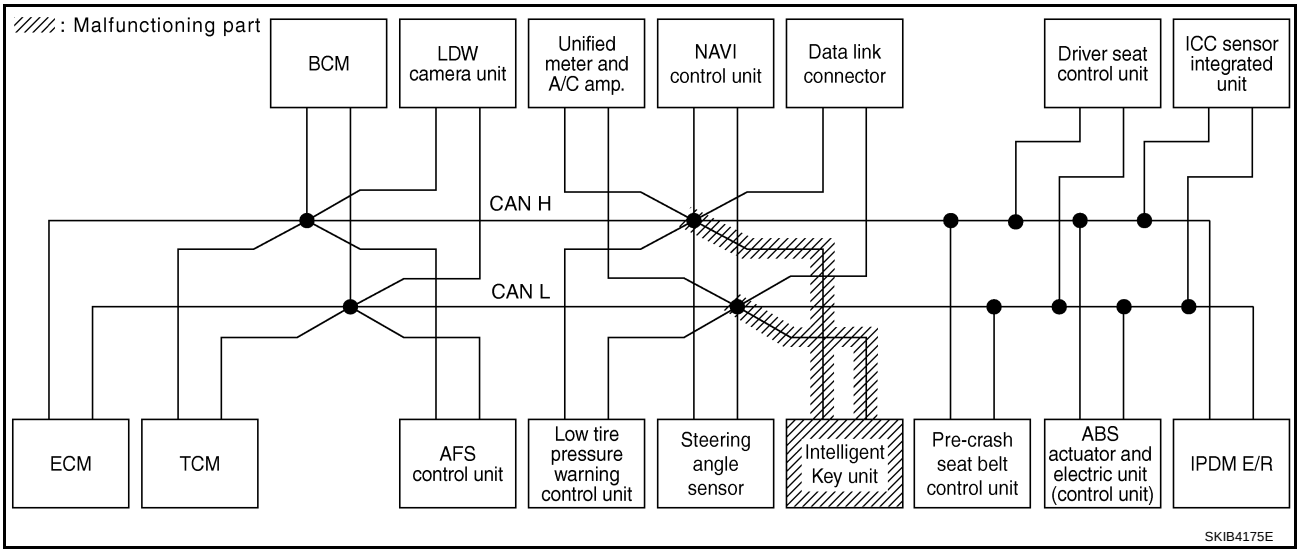


Case 13

Check Intelligent Key unit circuit. Refer to LAN-262, "Intelligent Key Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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



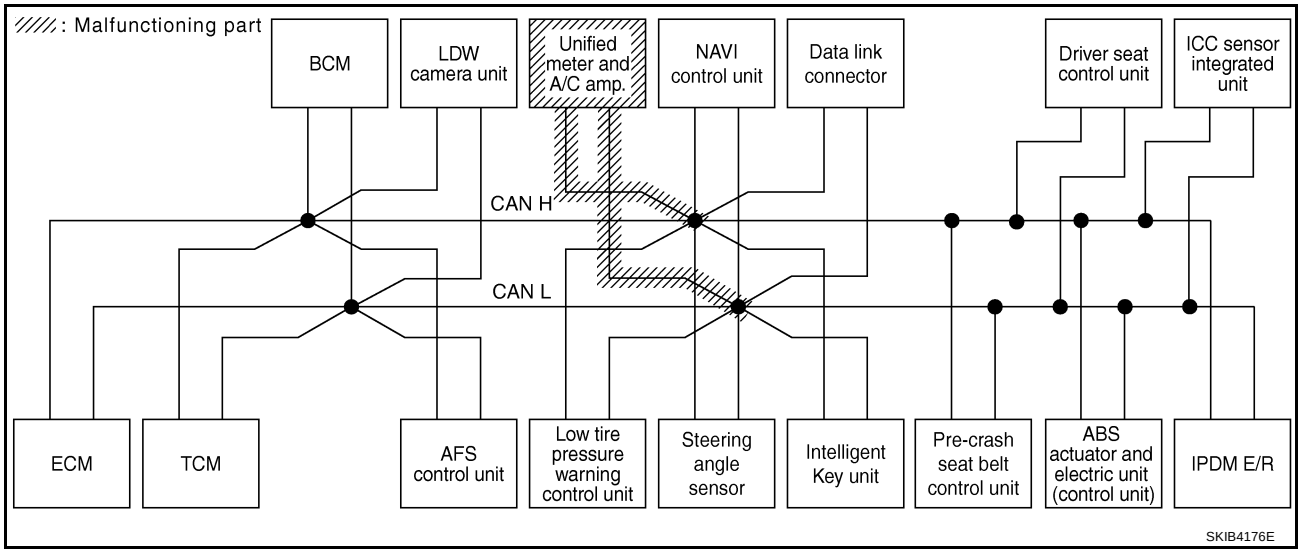
SKIB4175E

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: 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	SELF-DIAG RESULTS	
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	✓	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	✓	—	UNKWN	UNKWN	—	✓	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	✓	—	—	—	UNKWN	✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	✓	UNKWN	—	—	UNKWN	✓	—
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	✓	—
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	✓	—
PRECRASH SEATBELT	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	✓	—	—	—	—	✓	—
AUTO DRIVE POS.	No indication	NG	—	—	UNKWN	—	UNKWN	—	—	—	✓	—	—	—	—	✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	✓	—	UNKWN	—	—	✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8435E



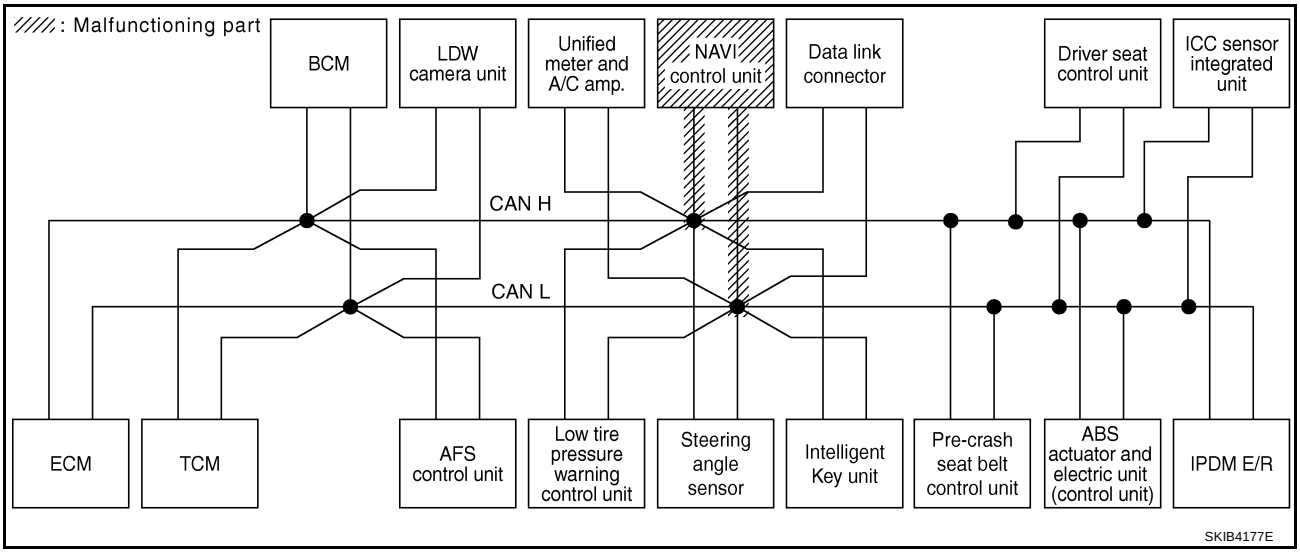
SKIB4176E

Case 15

Check NAVI control unit circuit. Refer to LAN-263, "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	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



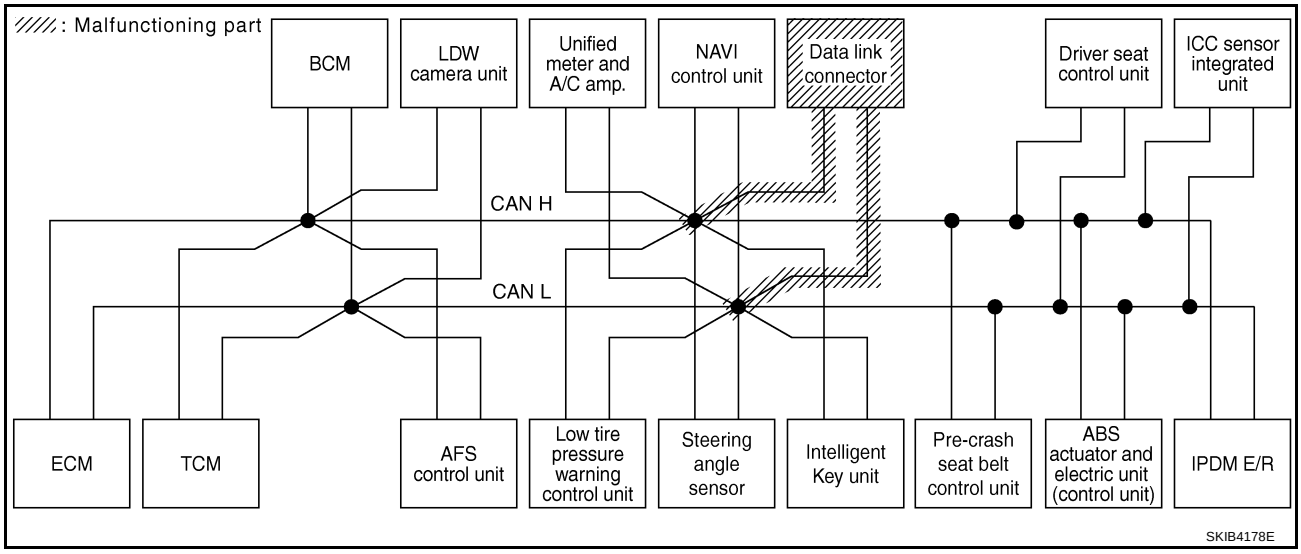
SKIB4177E

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	—	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)	—

PKIB8437E

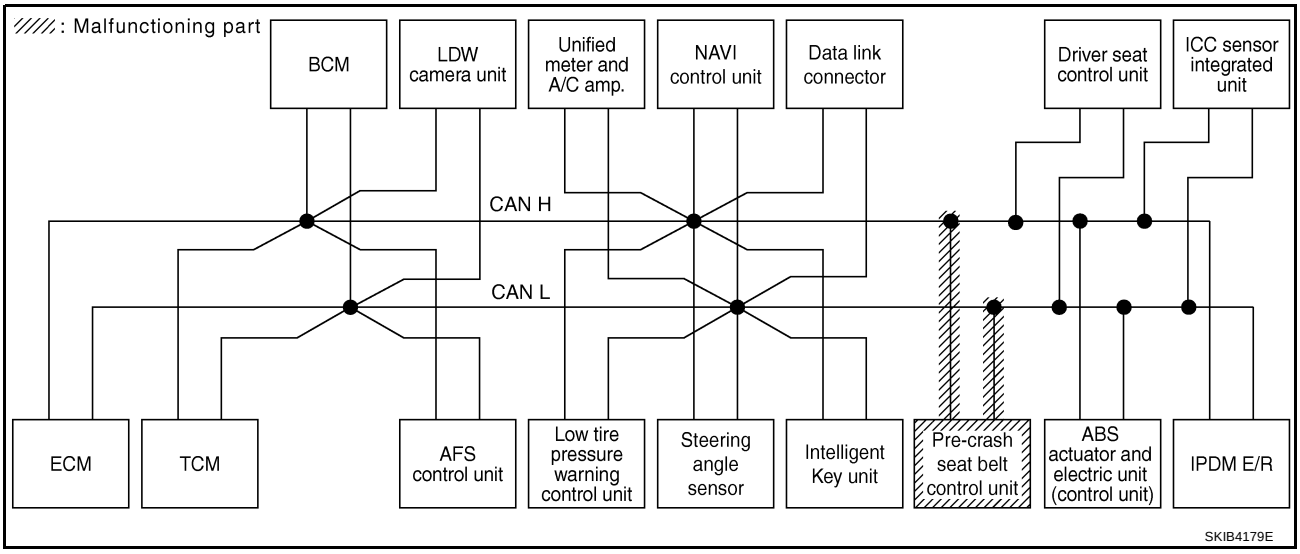


Case 17

Check pre-crash seat belt control unit circuit. Refer to LAN-264, "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	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)	—

PKIB8438E



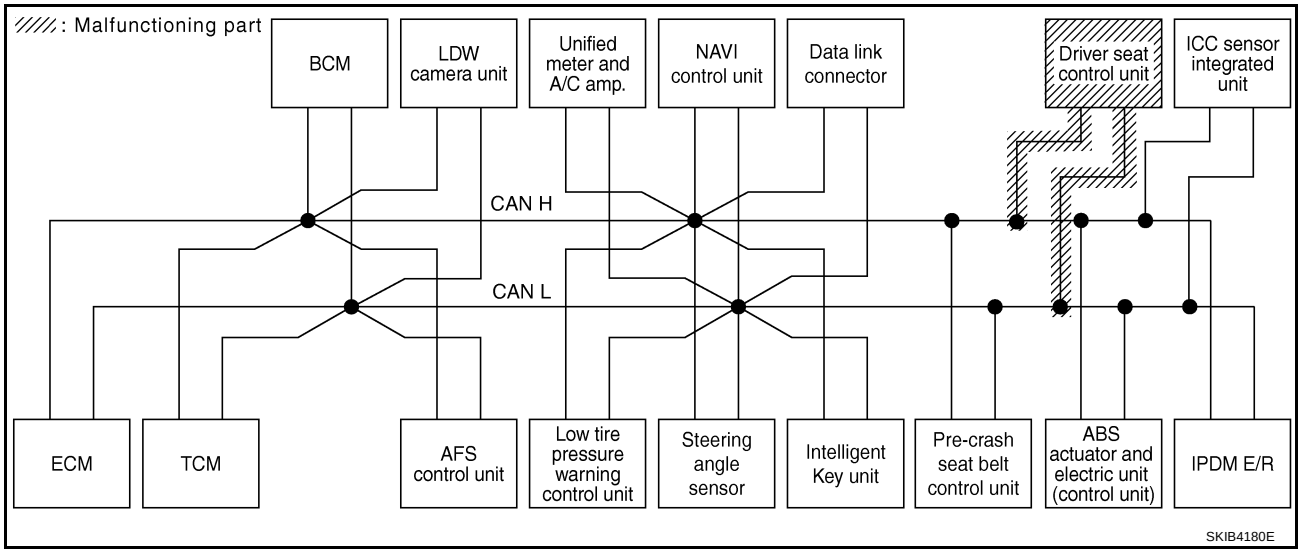
SKIB4179E

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



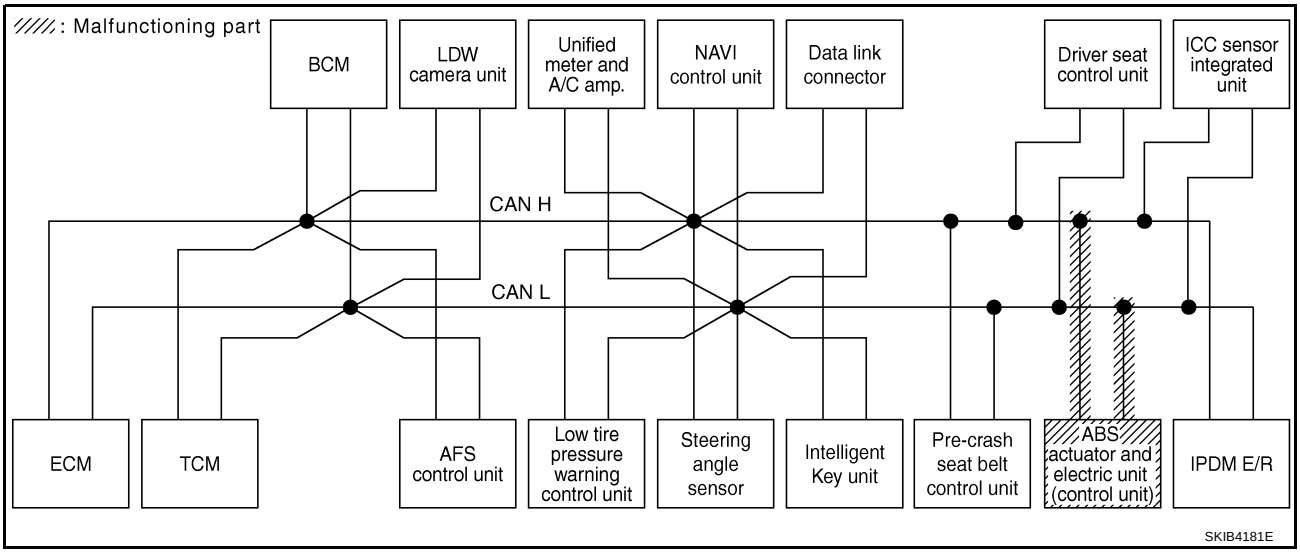
SKIB4180E

Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-265, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

PKIB8440E



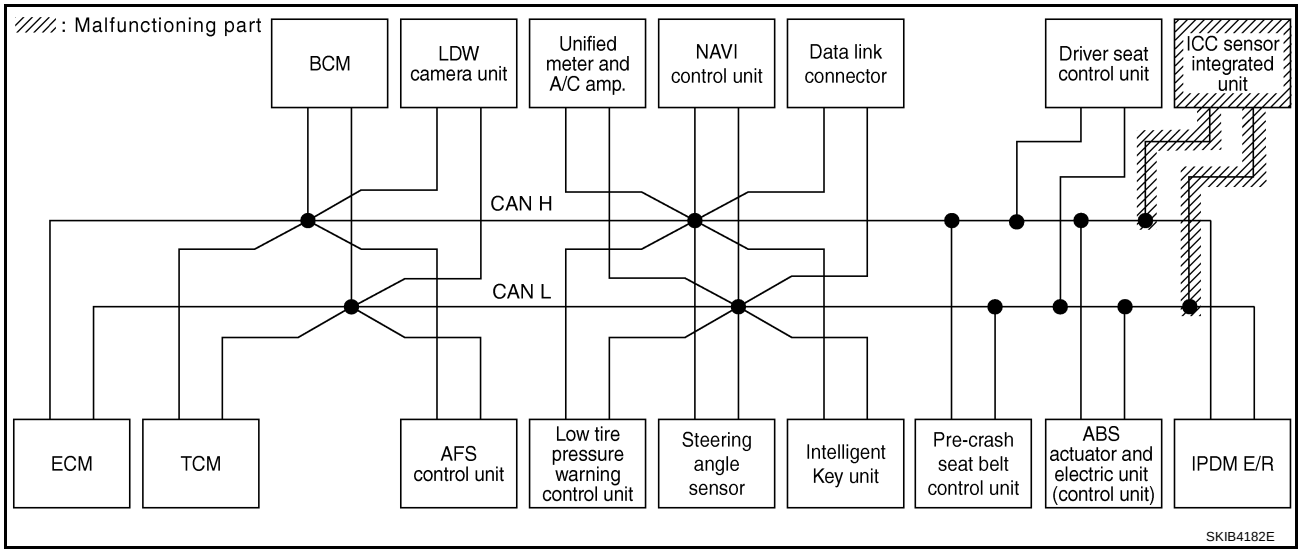
SKIB4181E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8441E

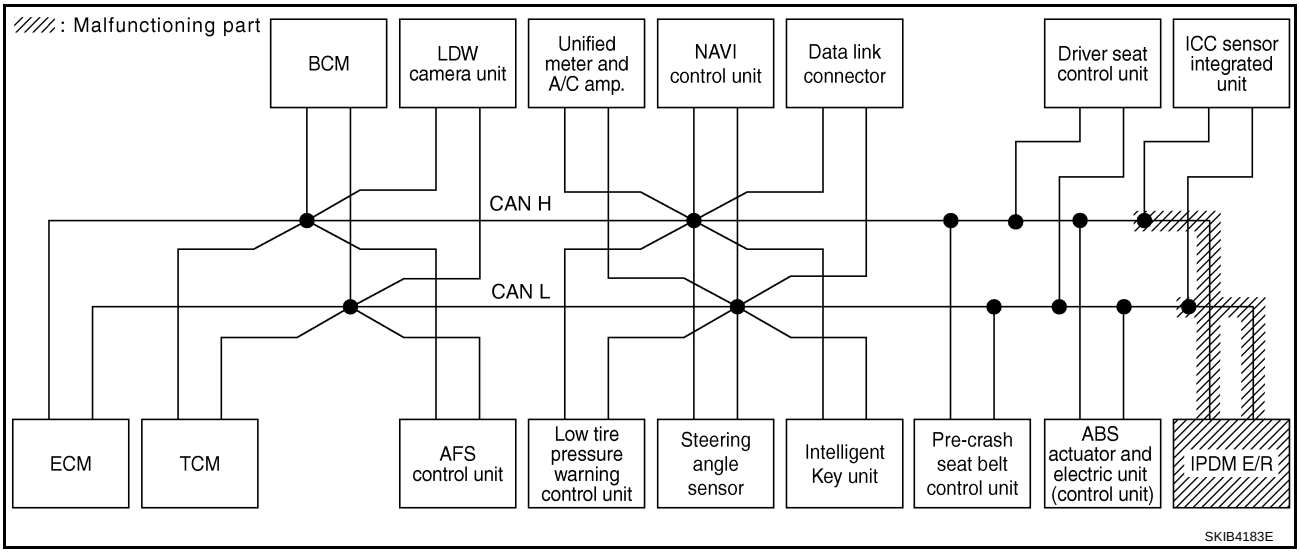


Case 21

Check IPDM E/R circuit. Refer to LAN-266, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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) ✓	—

PKIB8442E



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													
				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	—	—	—	—	✓ 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)	—

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													
				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)	—

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: 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	SELF-DIAG RESULTS	
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	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

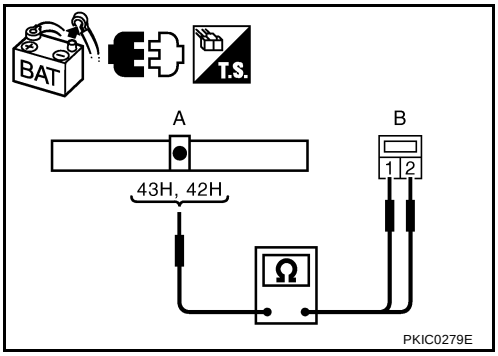
OK or NG

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



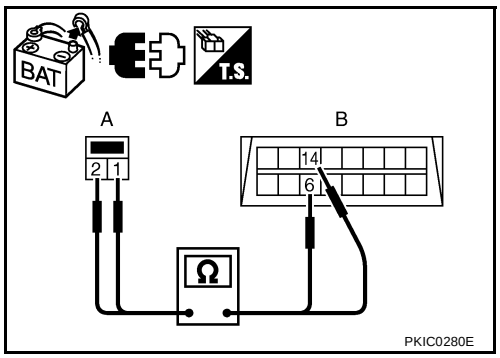
PKIC0279E

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

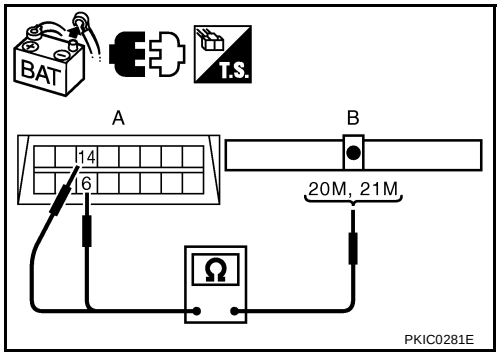
OK or NG

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

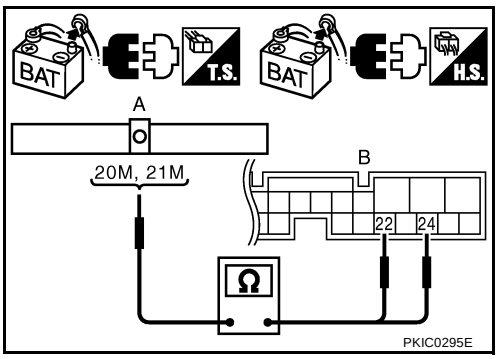
OK >> GO TO 3.

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

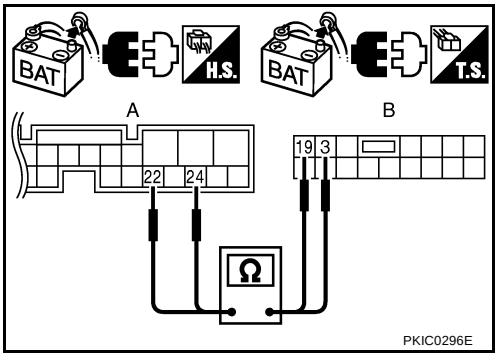
1. CHECK CONNECTOR

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

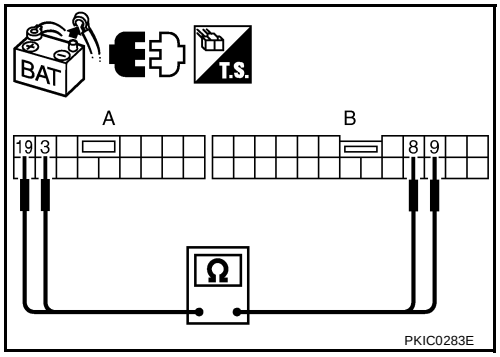
OK >> GO TO 2.

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



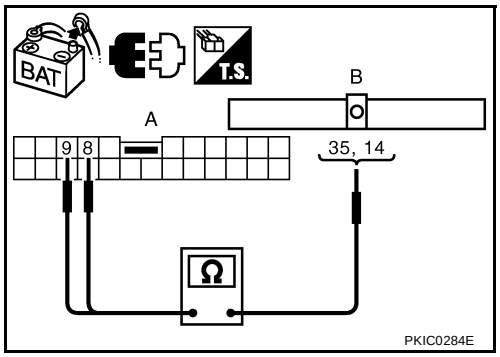
OK or NG

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

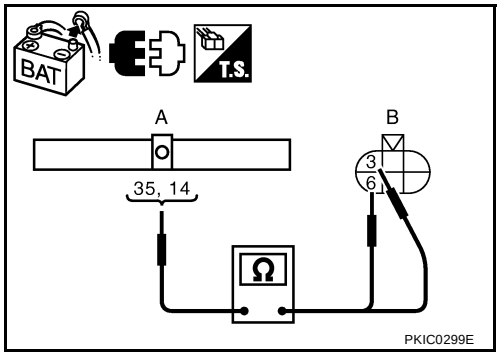
1. CHECK CONNECTOR

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

NKS0040O

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).

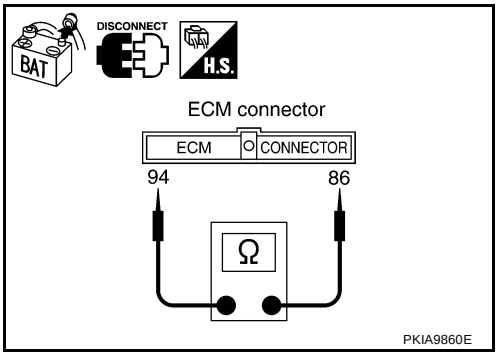
OK or NG

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

NKS0040P

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

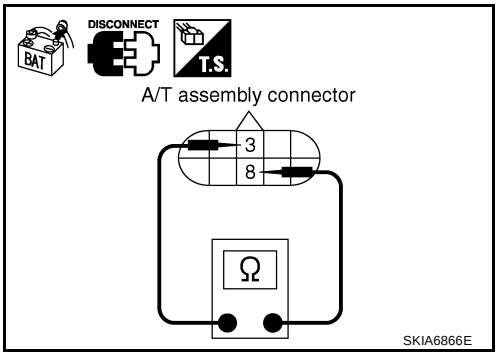
OK or NG

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

NKS0040Q

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

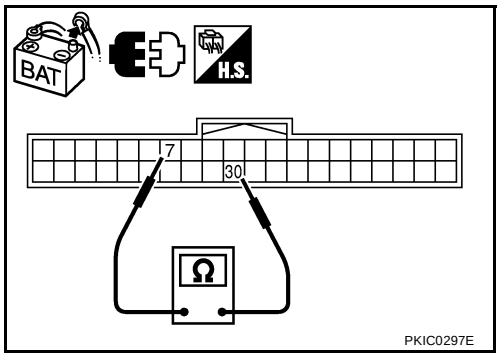
OK or NG

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

NKS0040R

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).

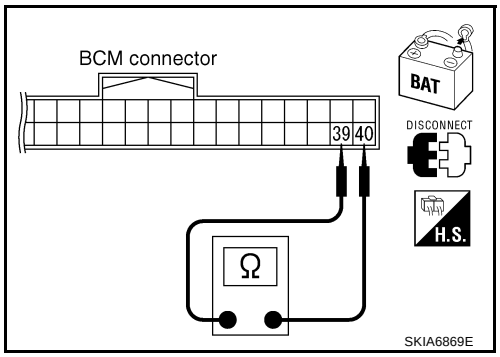
OK or NG

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.

LDW Camera Unit Circuit Inspection

NKS0040S

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).

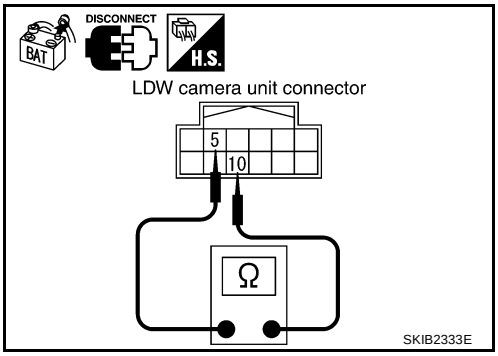
OK or NG

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

NKS0040T

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).

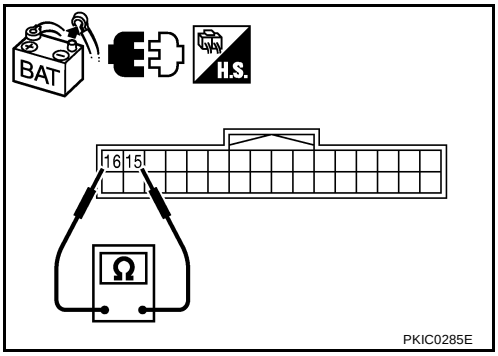
OK or NG

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

NKS0040U

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).

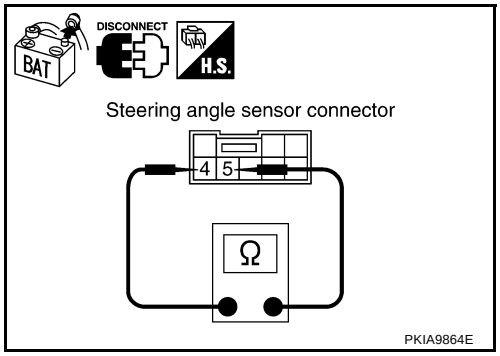
OK or NG

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

NKS0040V

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).

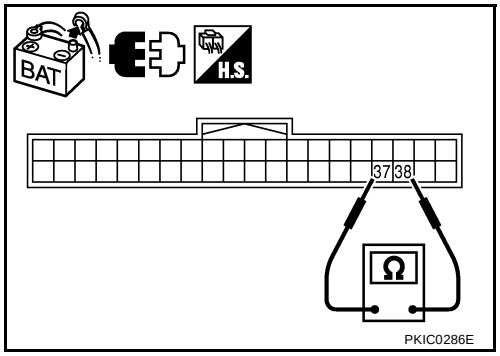
OK or NG

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

NKS0040W

1. CHECK CONNECTOR

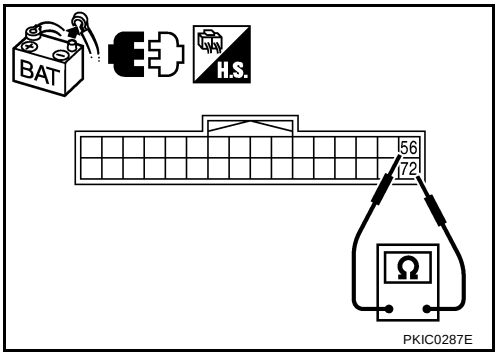
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS0040X

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).

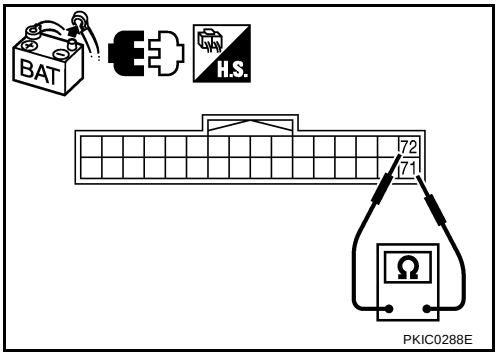
- NAVI control unit connector
- Harness connector M216
- Harness connector M53

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

NKS0040Y

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).

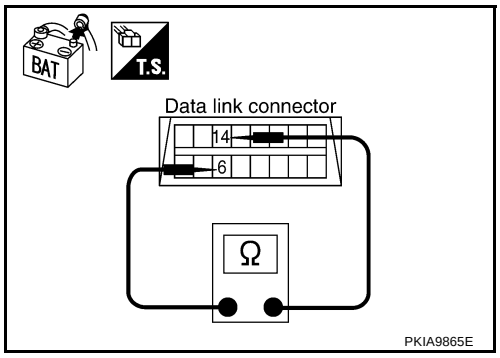
OK or NG

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

NKS0040Z

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).

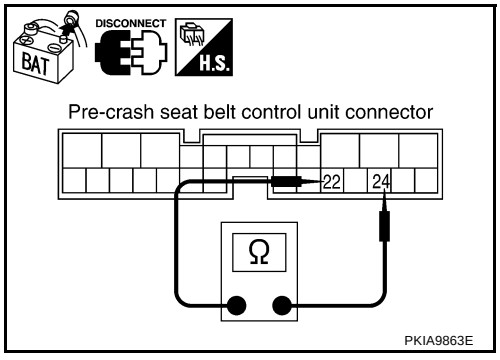
OK or NG

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

NKS00410

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

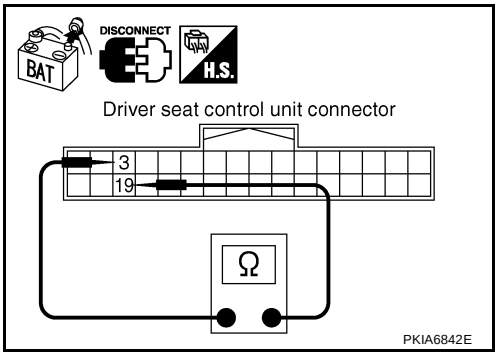
OK or NG

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

NKS00411

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).

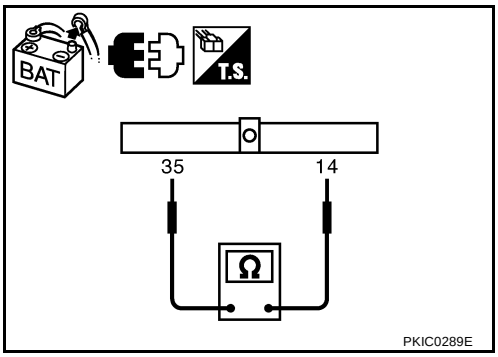
OK or NG

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

NKS00412

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).

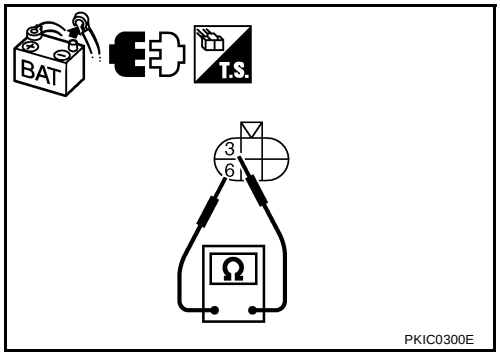
OK or NG

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

NKS00413

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).

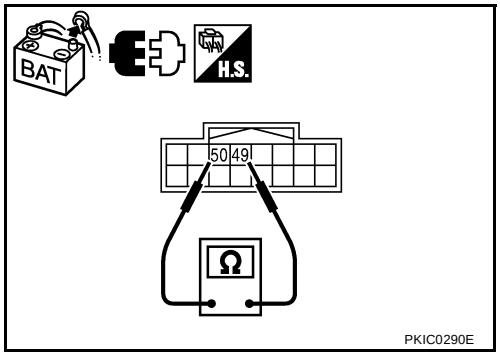
OK or NG

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.

CAN Communication Circuit Inspection

NKS00414

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.

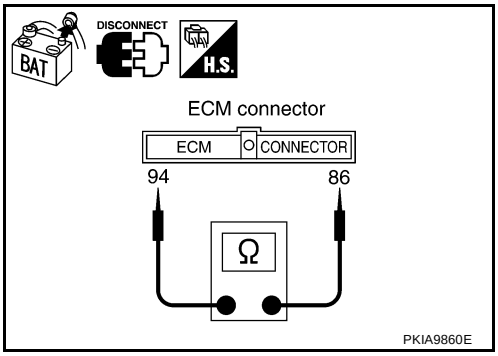
2. CHECK HARNESS FOR SHORT CIRCUIT

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

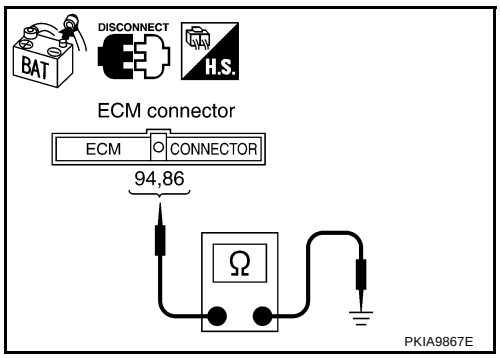
OK >> GO TO 3.
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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	Ground	Continuity
M71	94		No
	86		No



OK or NG

OK >> GO TO 4.

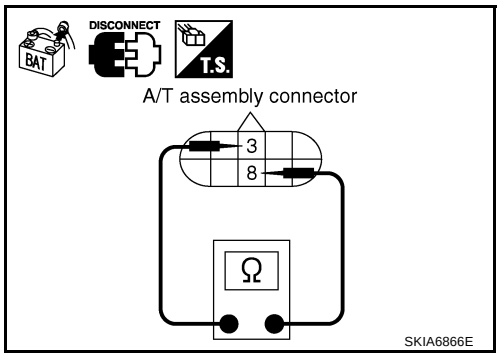
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between ECM and harness connector M72
- Harness between ECM and BCM
- Harness between ECM and 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

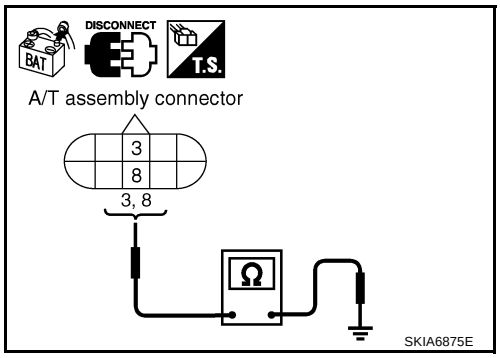
OK >> GO TO 5.

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		No
	8		No



OK or NG

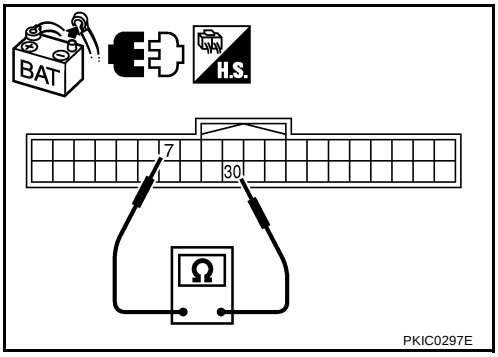
OK >> GO TO 6.

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



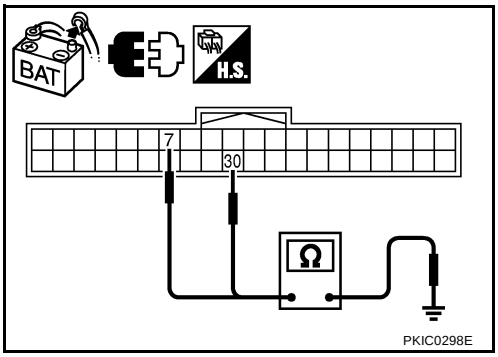
OK or NG

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



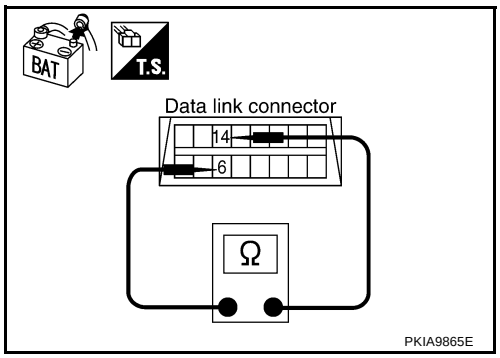
OK or NG

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

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

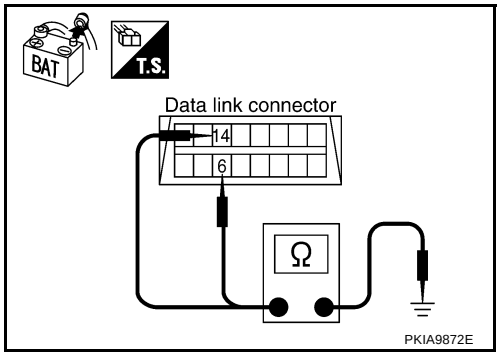
OK >> GO TO 9.

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

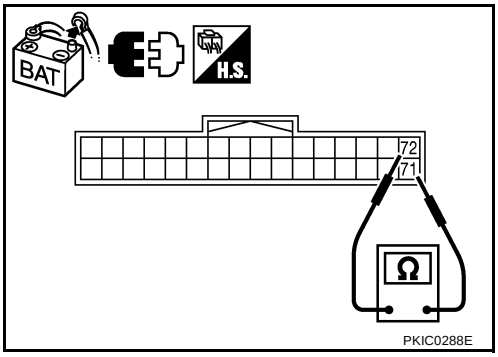
OK >> GO TO 10.

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

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



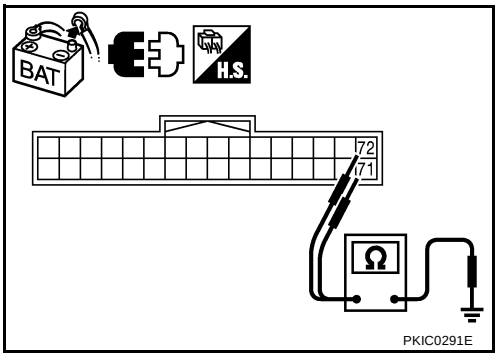
OK or NG

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

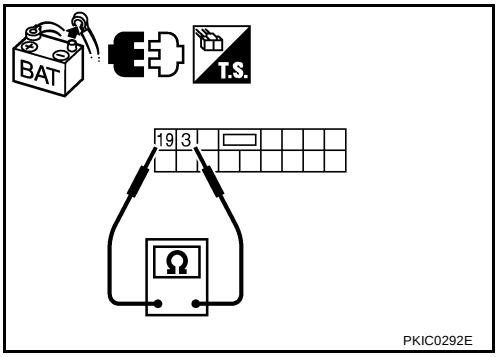
OK >> GO TO 12.
NG >> Repair harness between NAVI control unit and harness connector M216.

12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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



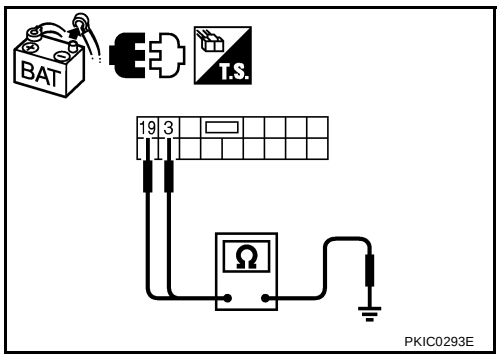
OK or NG

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

13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No



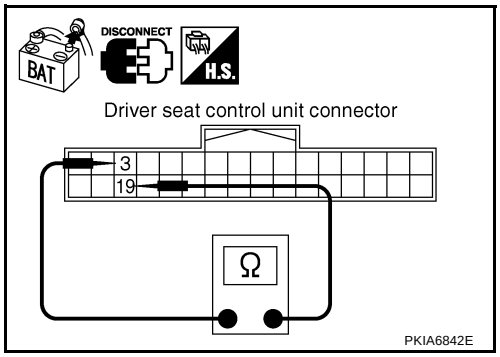
OK or NG

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



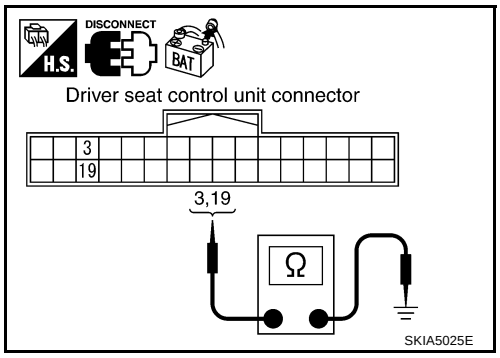
OK or NG

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



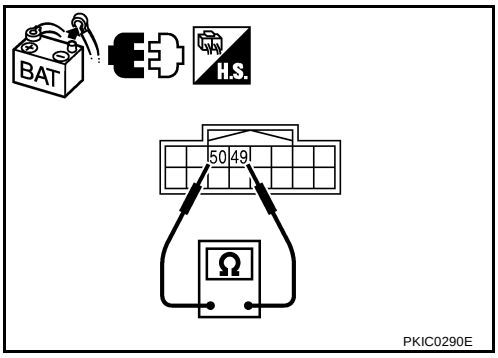
OK or NG

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

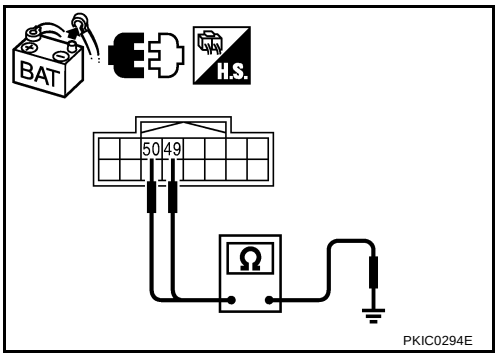
OK >> GO TO 17.

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		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

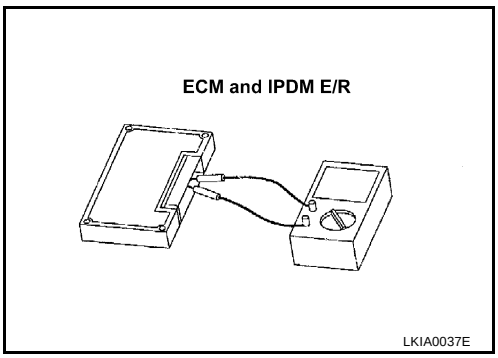
18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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
- 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”" .

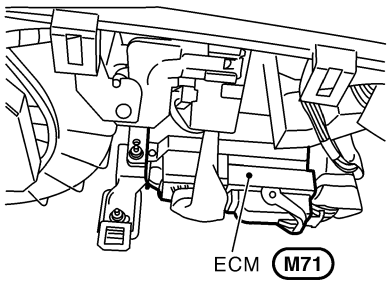
CAN SYSTEM (TYPE 6)

PFP:23710

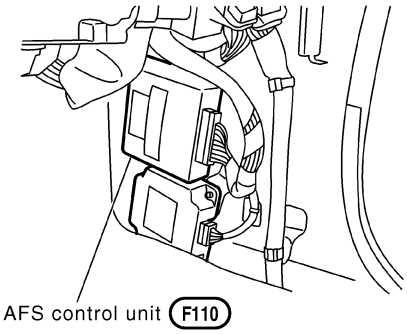
Component Parts and Harness Connector Location

NKS00416

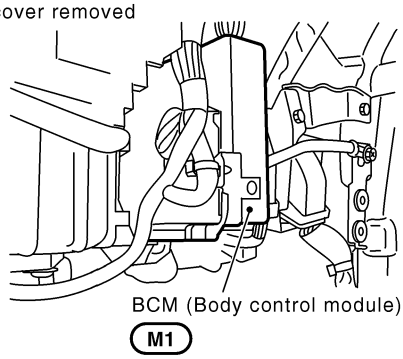
Passenger side view with instrument lower cover removed



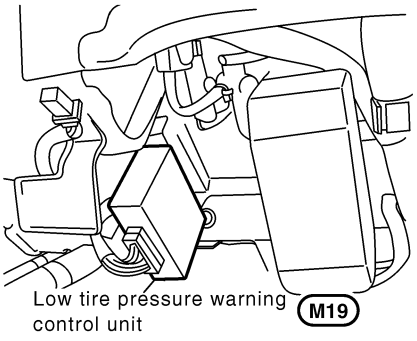
Behind dash side lower RH finisher



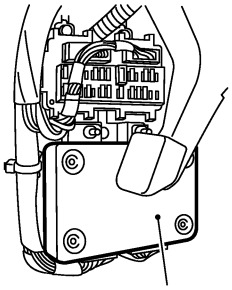
Passenger side view with instrument lower cover removed



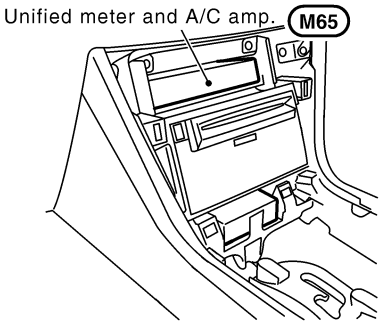
Driver side view with instrument lower panel removed



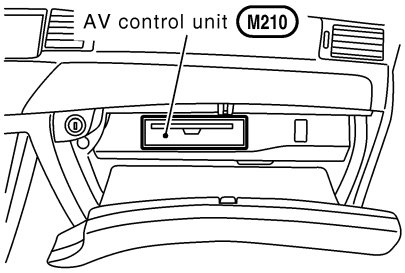
Behind dash side lower LH finisher



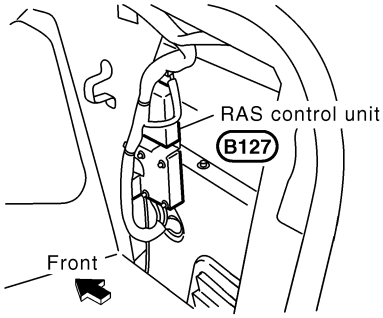
View with cluster lid C removed



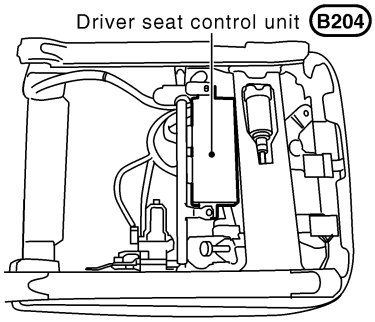
Inside of glove box



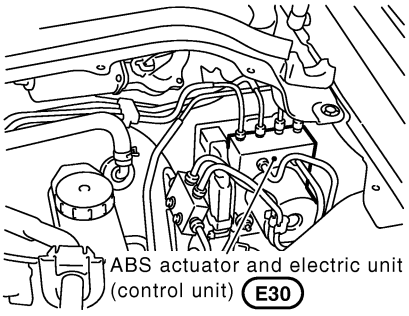
View with trunk side RH finisher removed



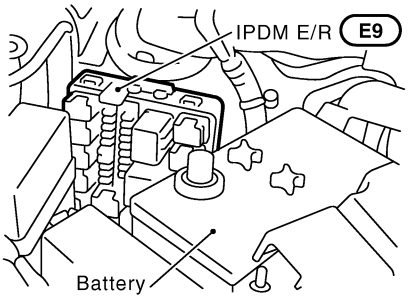
Under driver's seat



Rear left of engine room



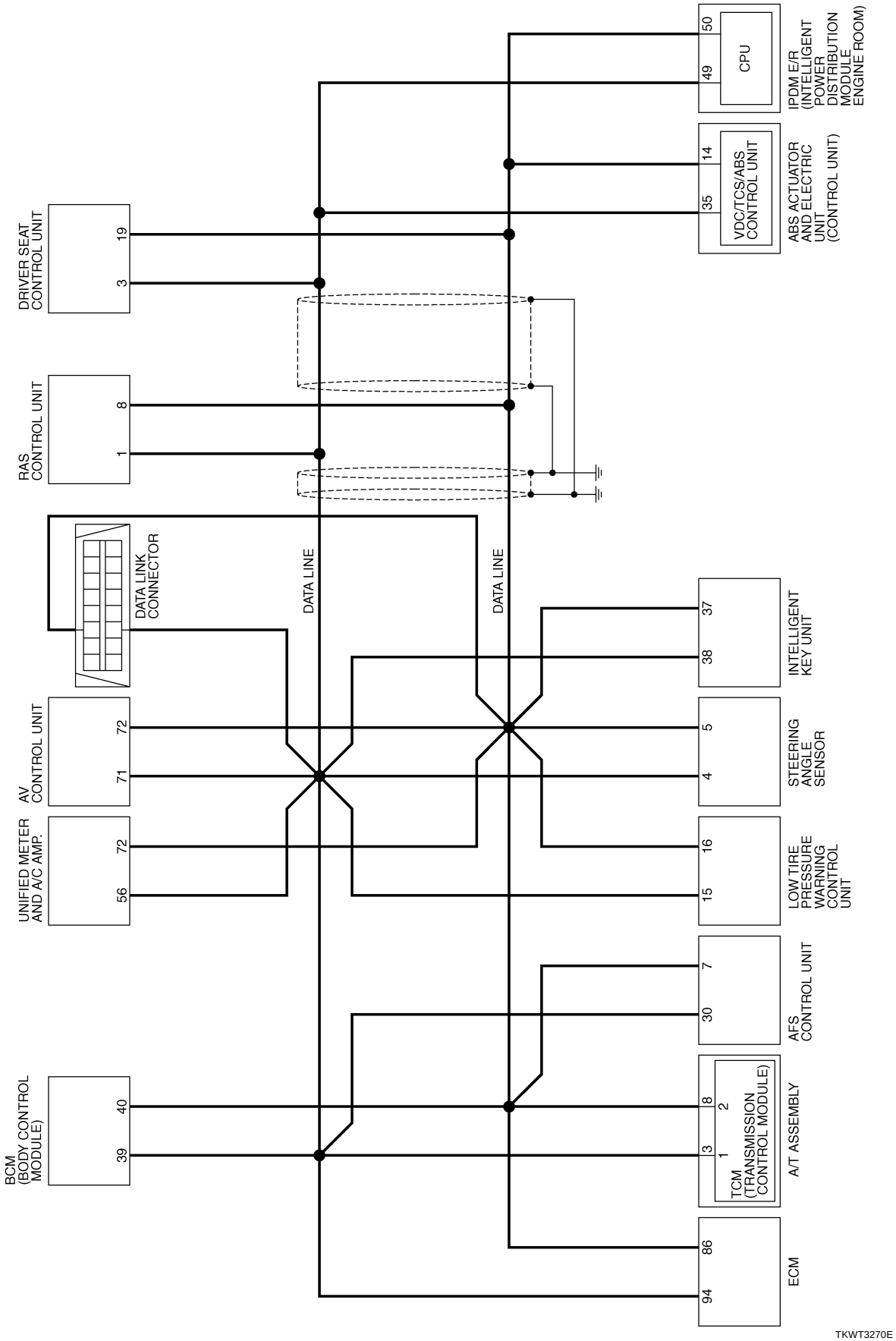
View with cowl top cover removed



PKIC0604E

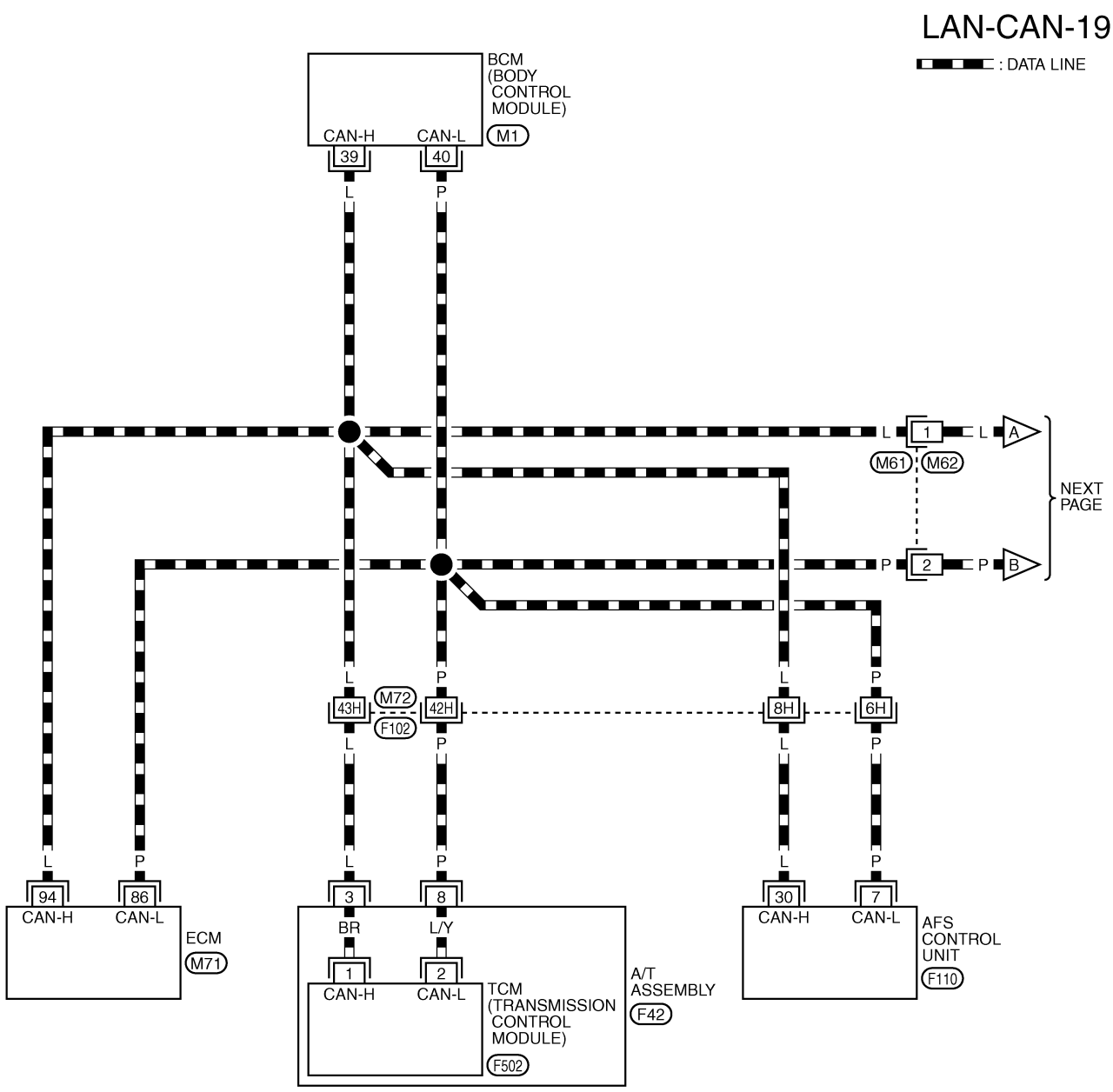
Schematic

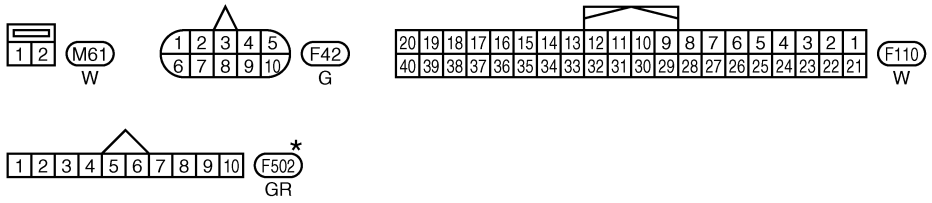
NKS00417



Wiring Diagram — CAN —

NKS00418





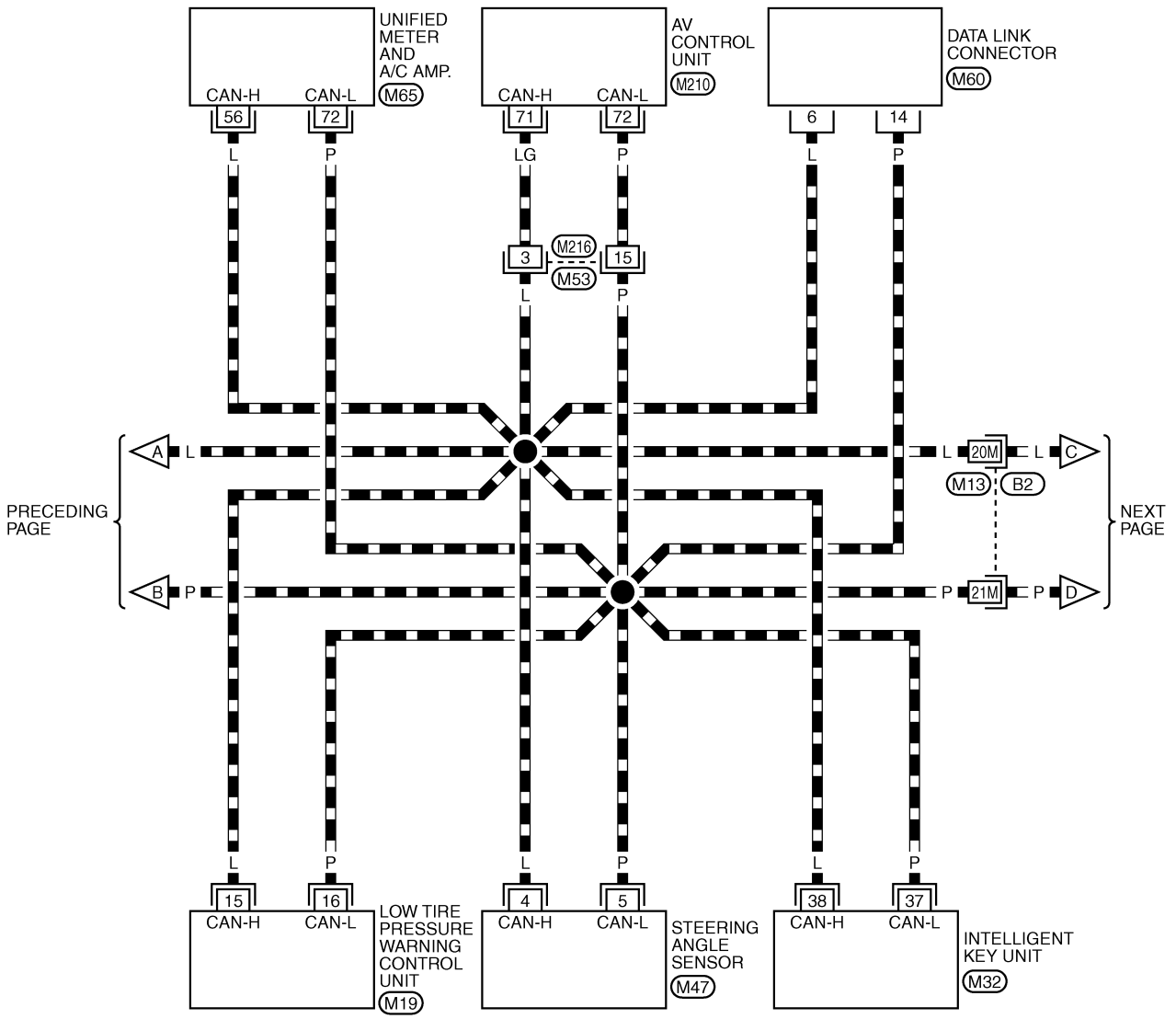
REFER TO THE FOLLOWING.
F102 -SUPER MULTIPLE JUNCTION (SMJ)
M1 , M71 -ELECTRICAL UNITS

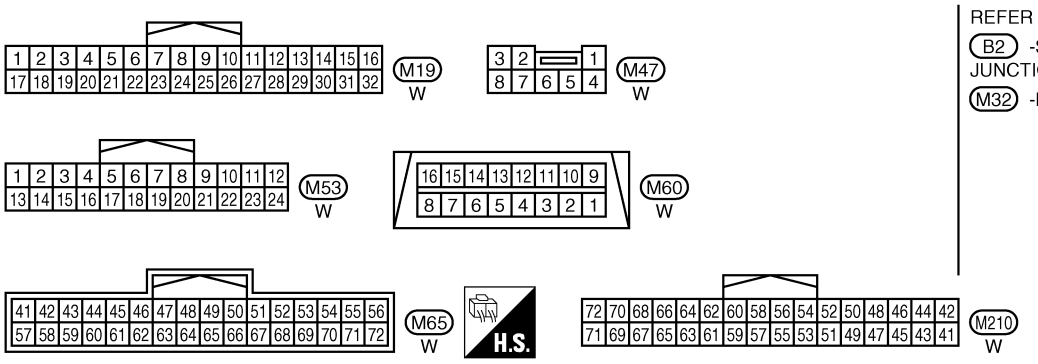
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3271E

LAN-CAN-20

: DATA LINE





REFER TO THE FOLLOWING.

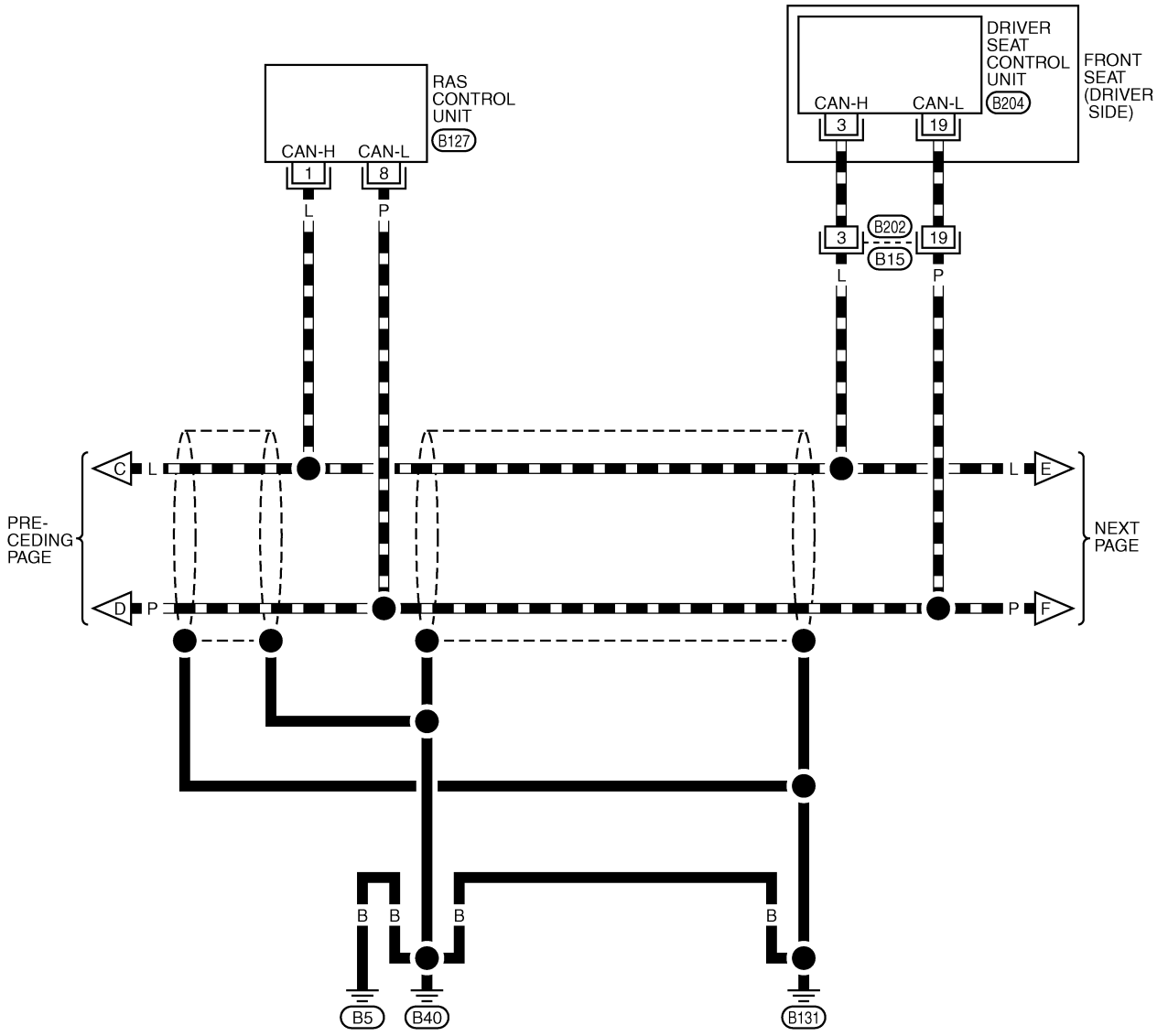
B2 -SUPER MULTIPLE JUNCTION (SMJ)

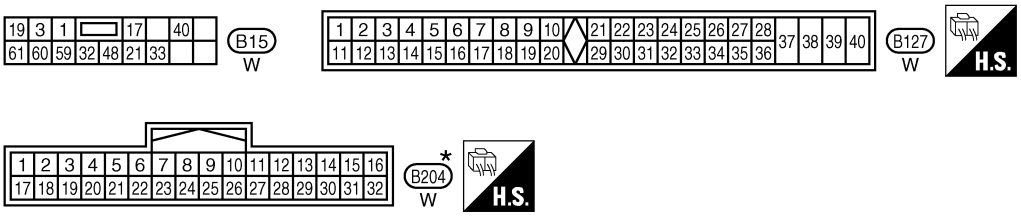
M32 -ELECTRICAL UNITS

TKWT3272E

LAN-CAN-21

: DATA LINE





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

TKWT3273E

LAN-CAN-22

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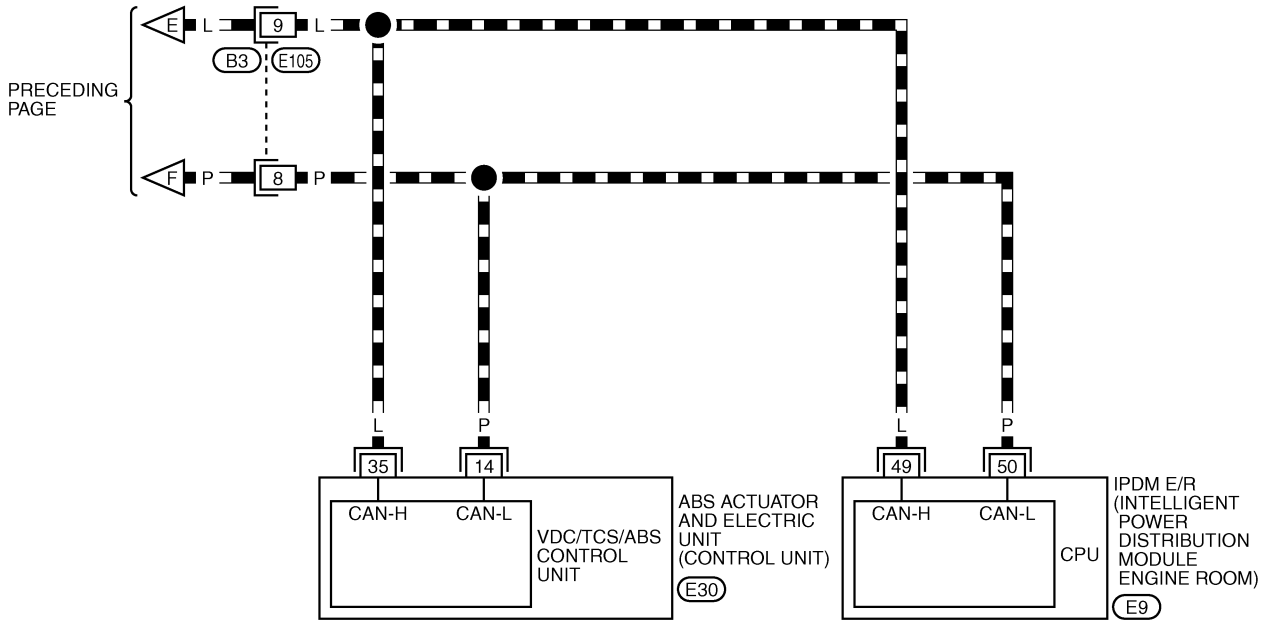

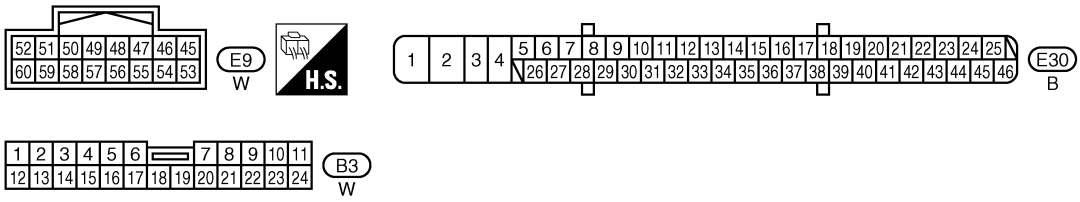

TKWT3274E

Check Sheet

NKS00419

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	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)	—

Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

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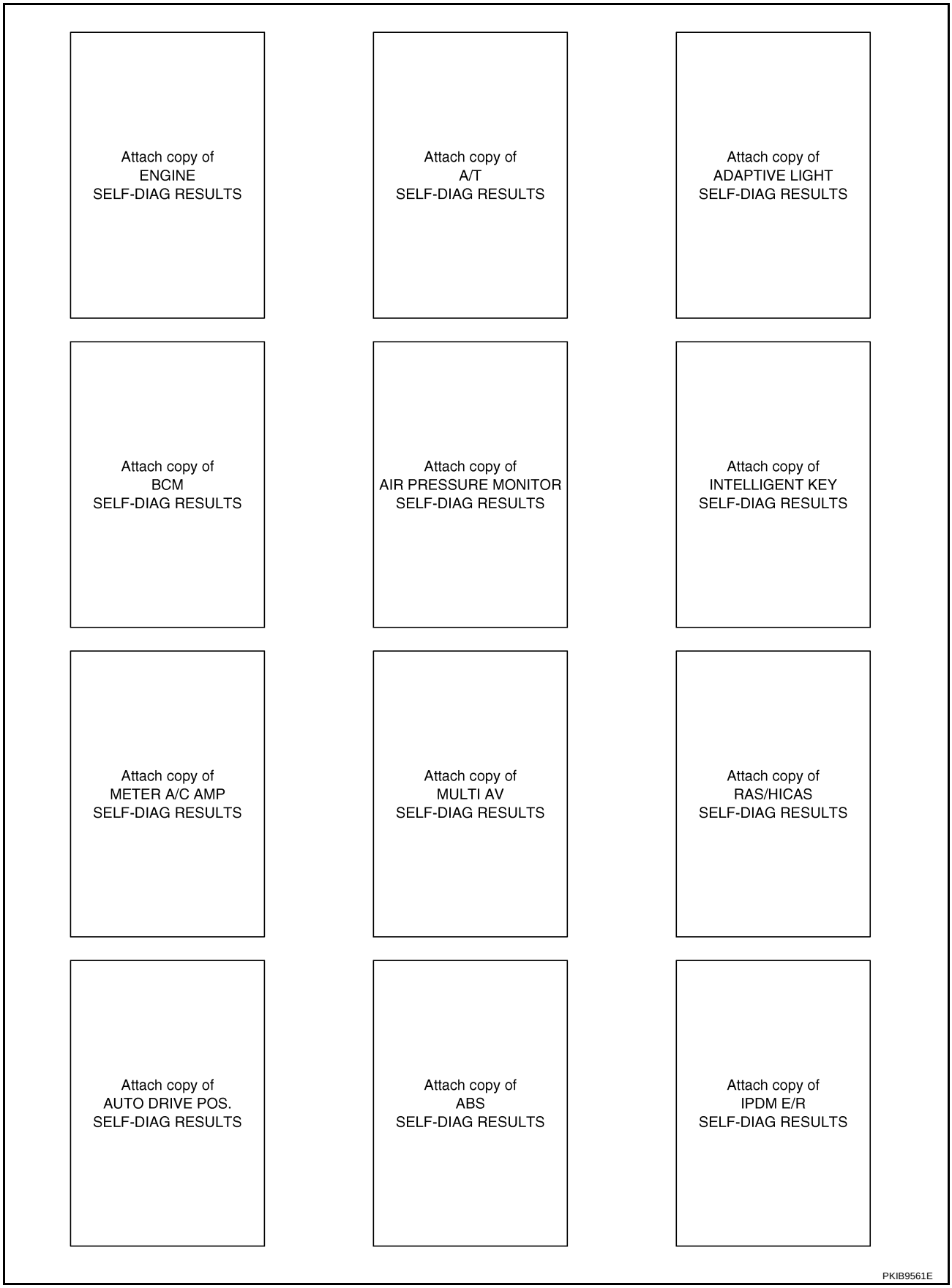
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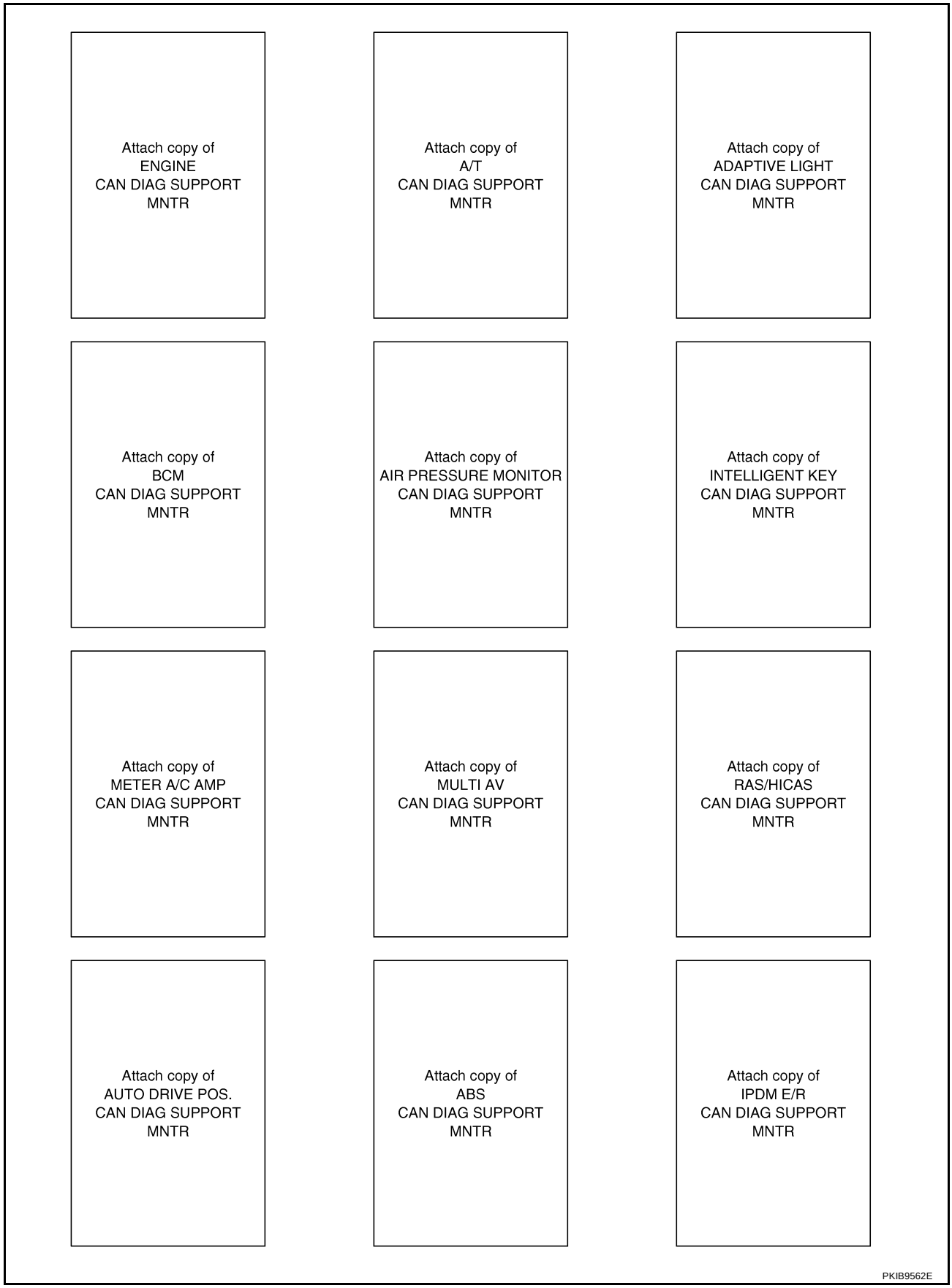
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CHECK SHEET RESULTS (EXAMPLE)

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													
				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)	—

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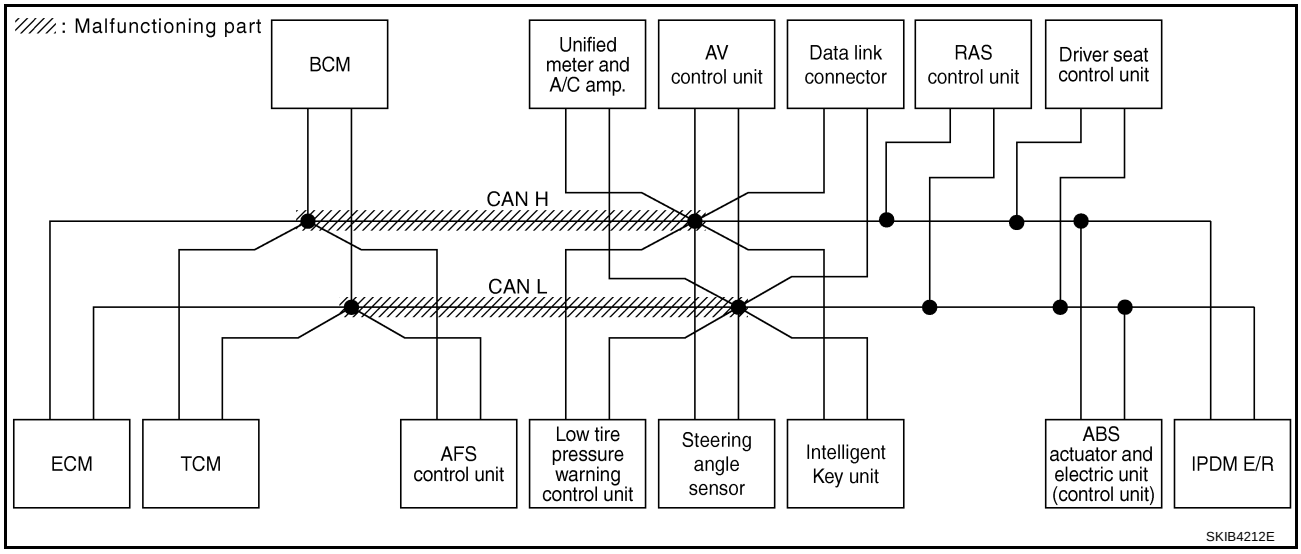

Case 2

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												
				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) ✓	—

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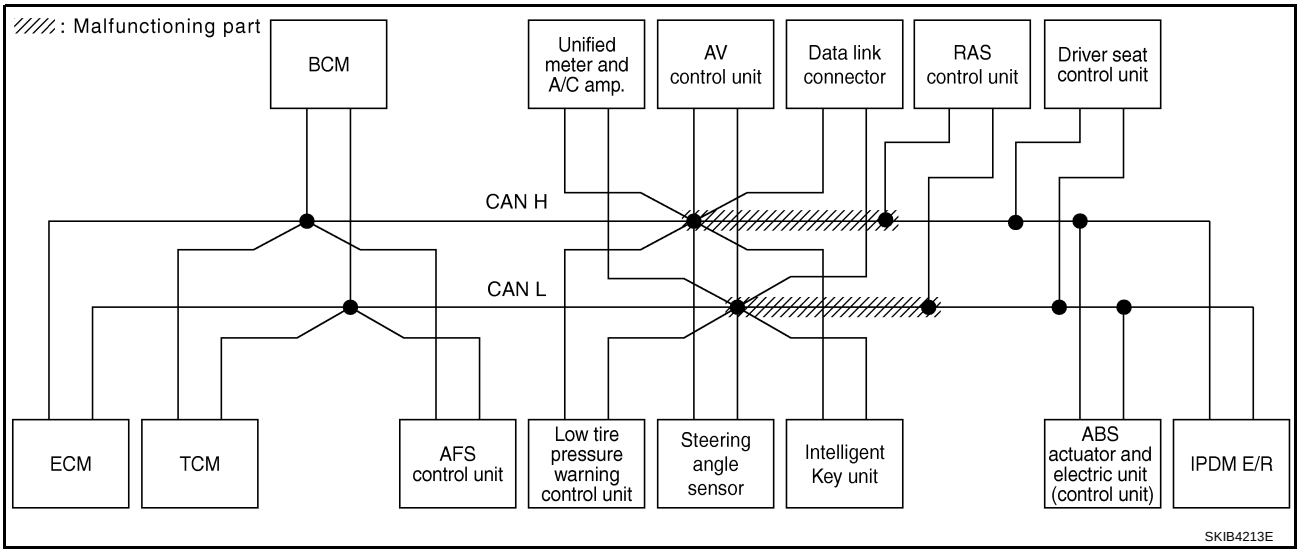

SKIB4213E

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													
				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)	—

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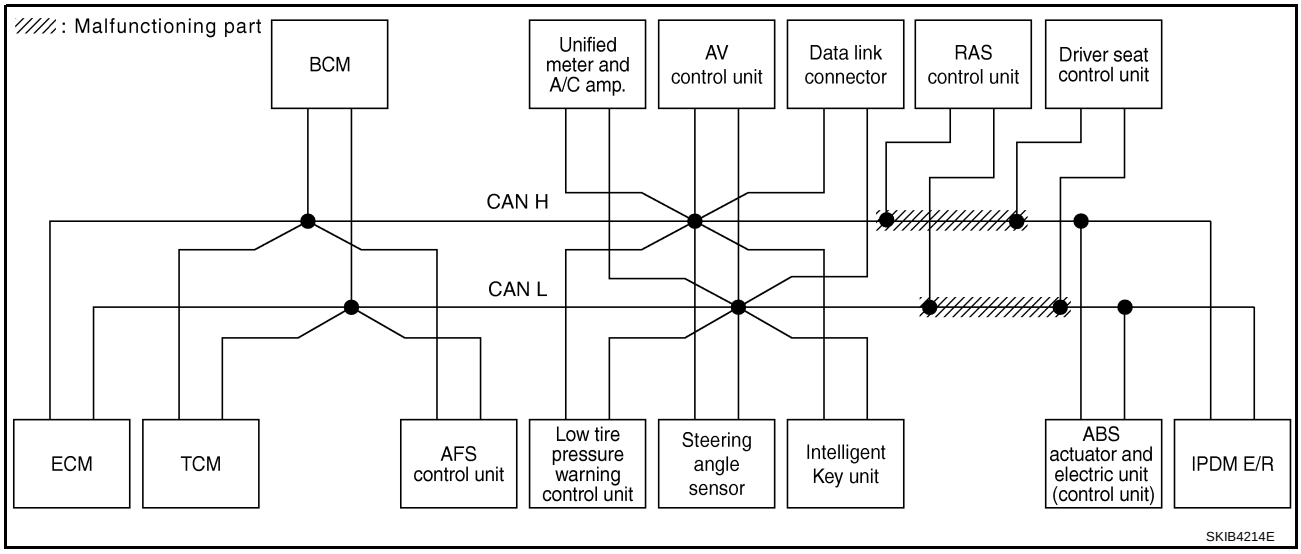

SKIB4214E

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" .

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) ✓	—

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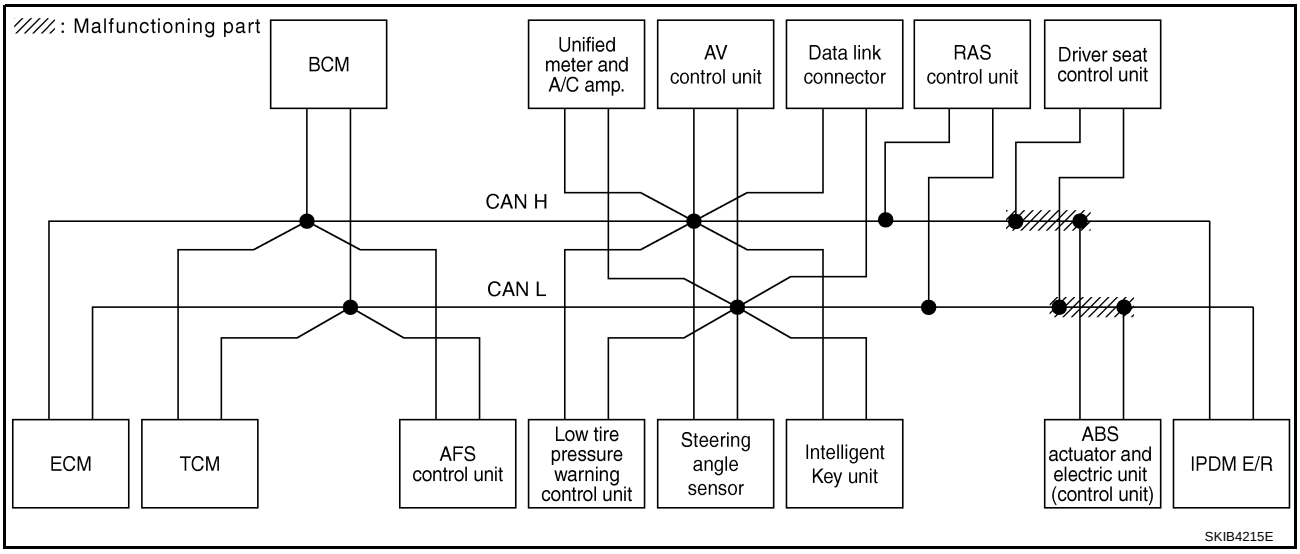

SKIB4215E

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													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	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	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	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	✓	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	✓	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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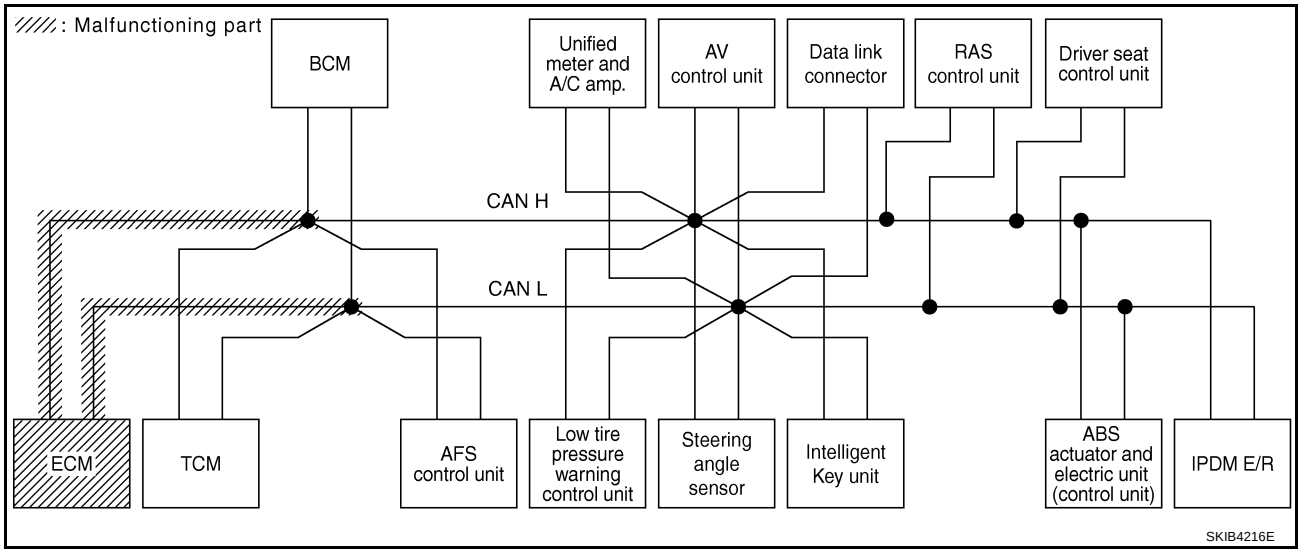

Case 6

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	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)	—

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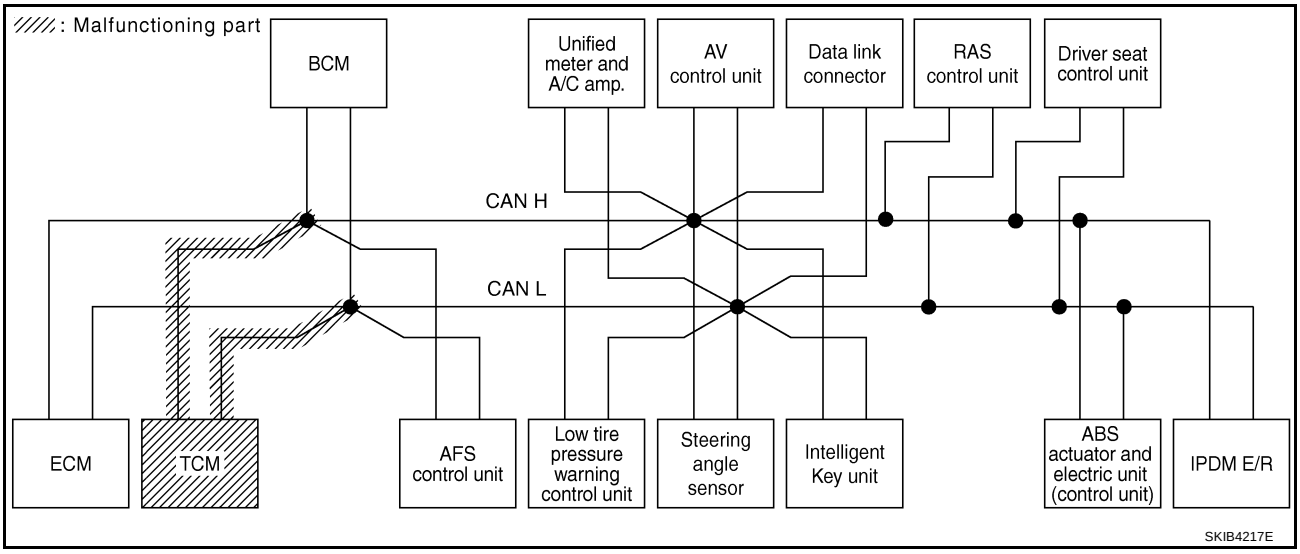

SKIB4217E

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													
				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)	—

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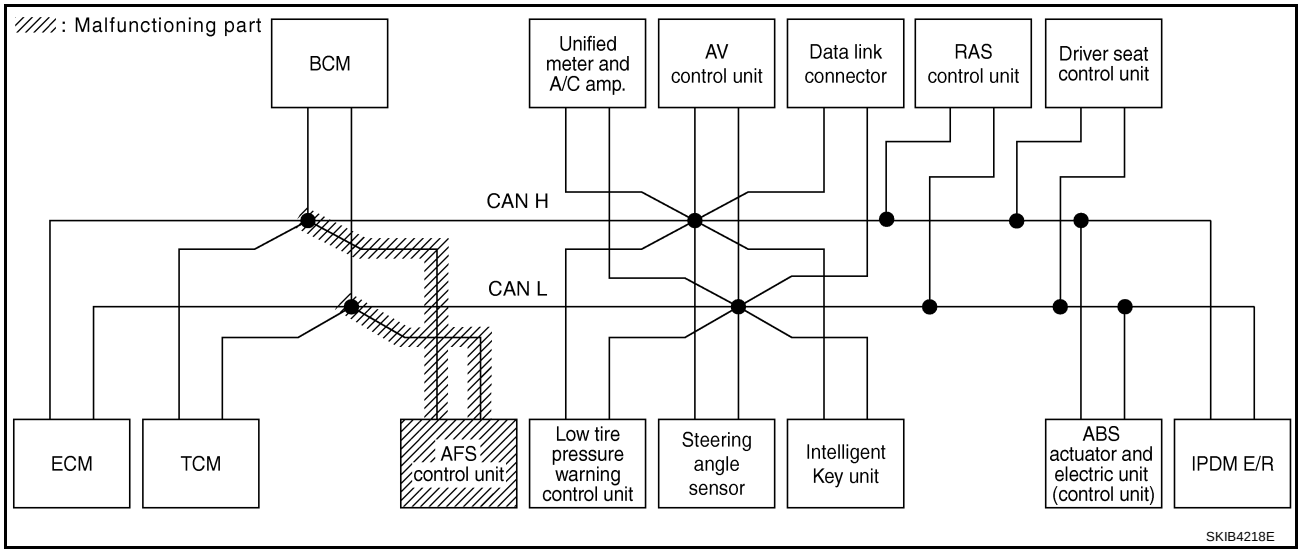
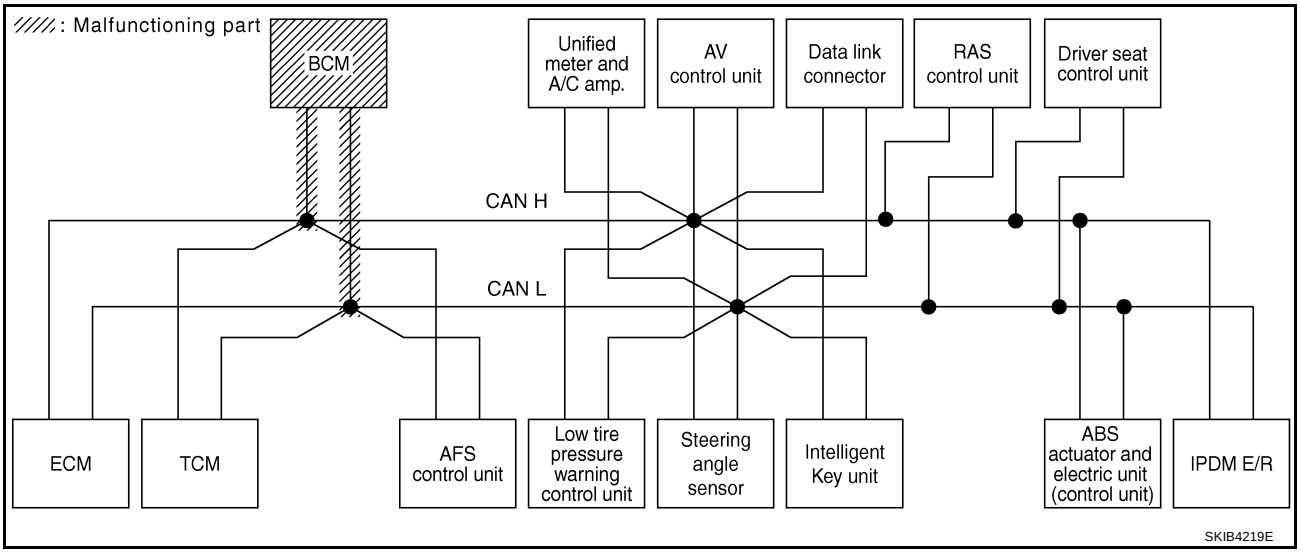


Case 8

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	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) ✓	—

PKIB8454E

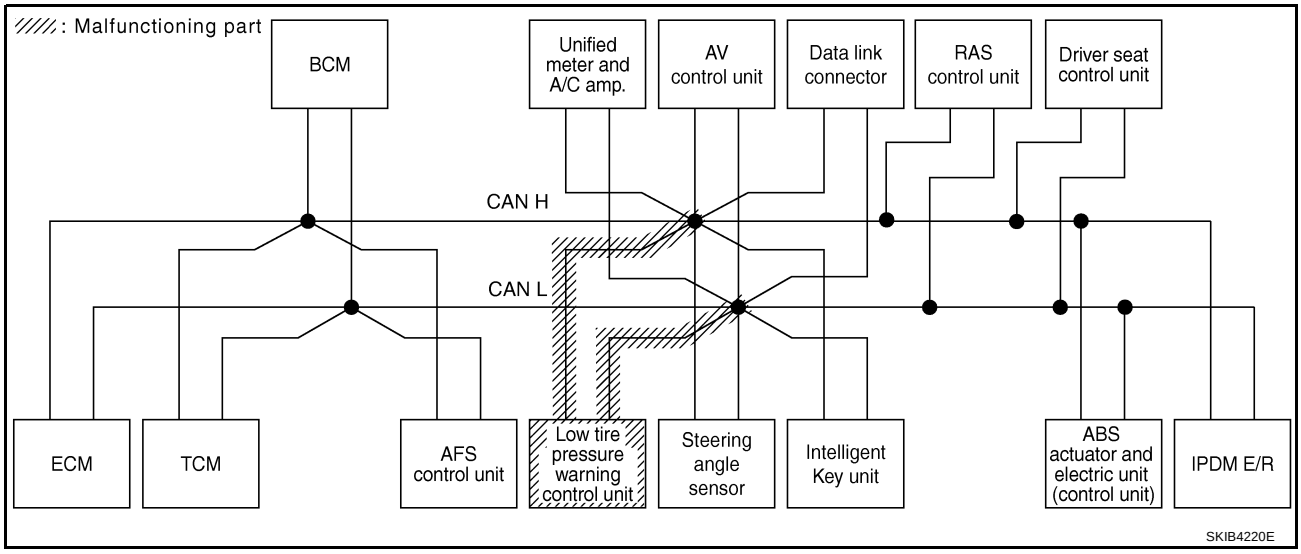


Case 9

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													
				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)	—

PKIB8455E

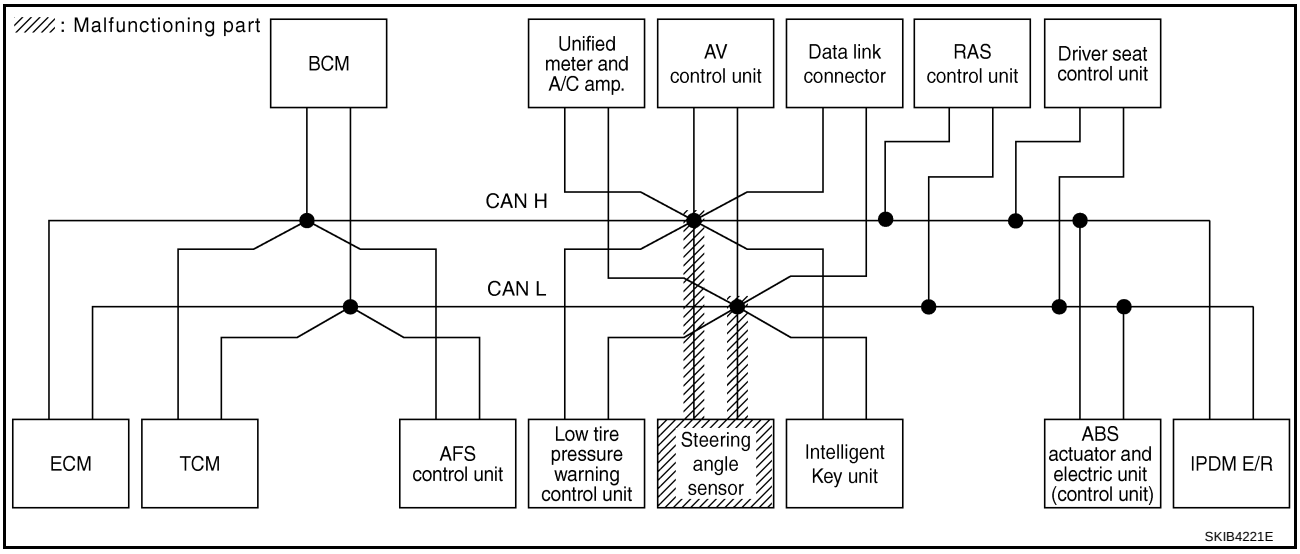


Case 10

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



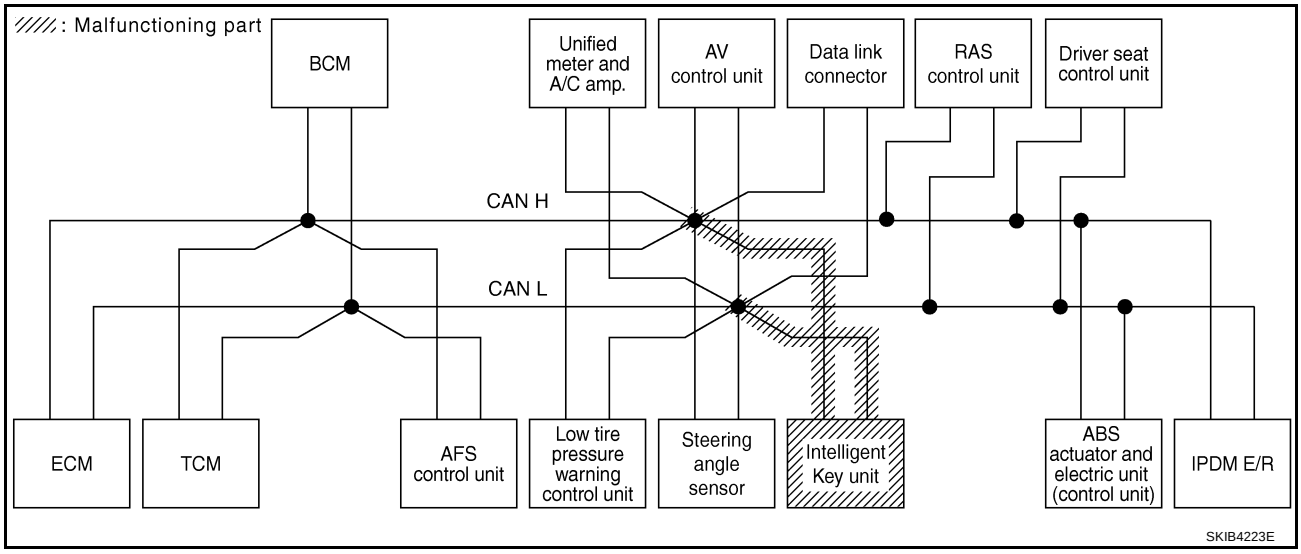
SKIB4221E

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													
				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)	—

PKIB8457E

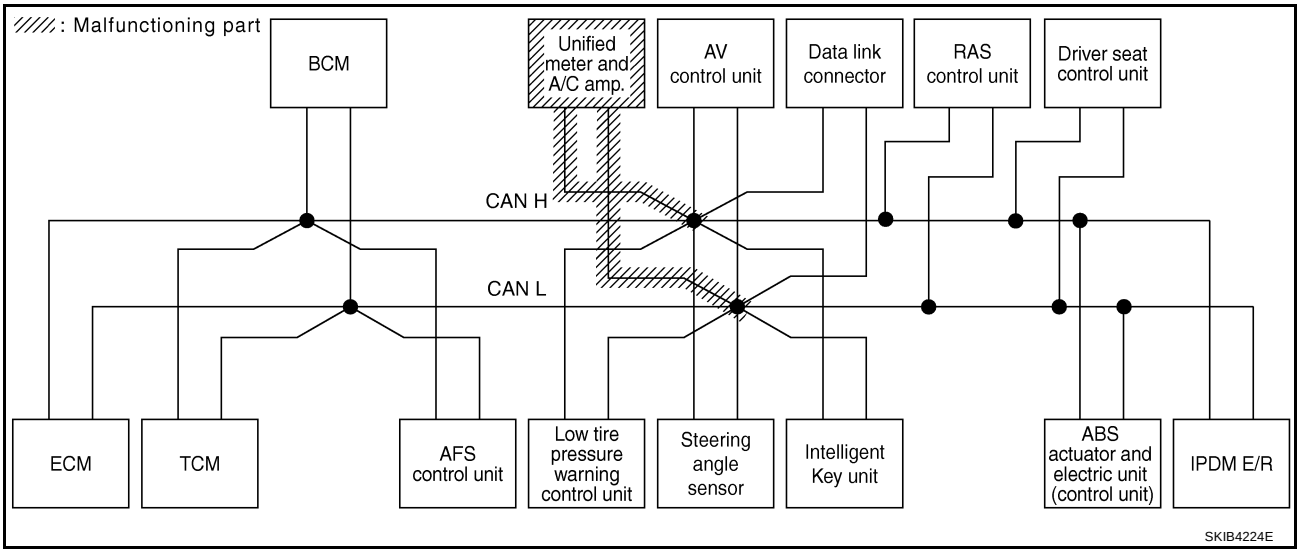


Case 12

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	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)	—

PKIB8458E

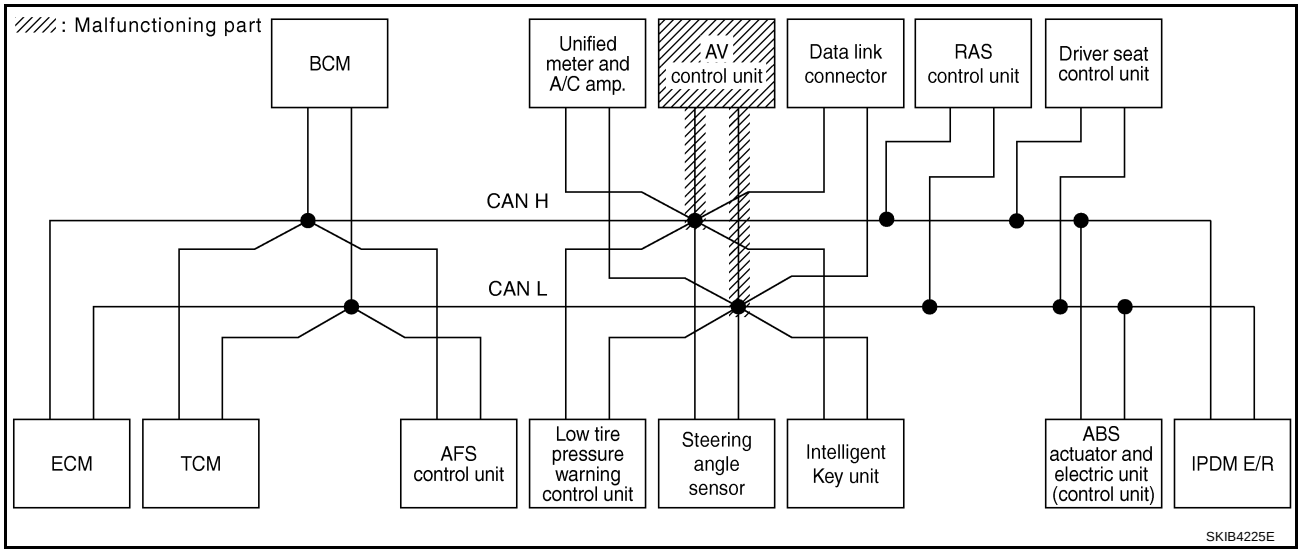


Case 13

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													
				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)	—

PKIB8459E

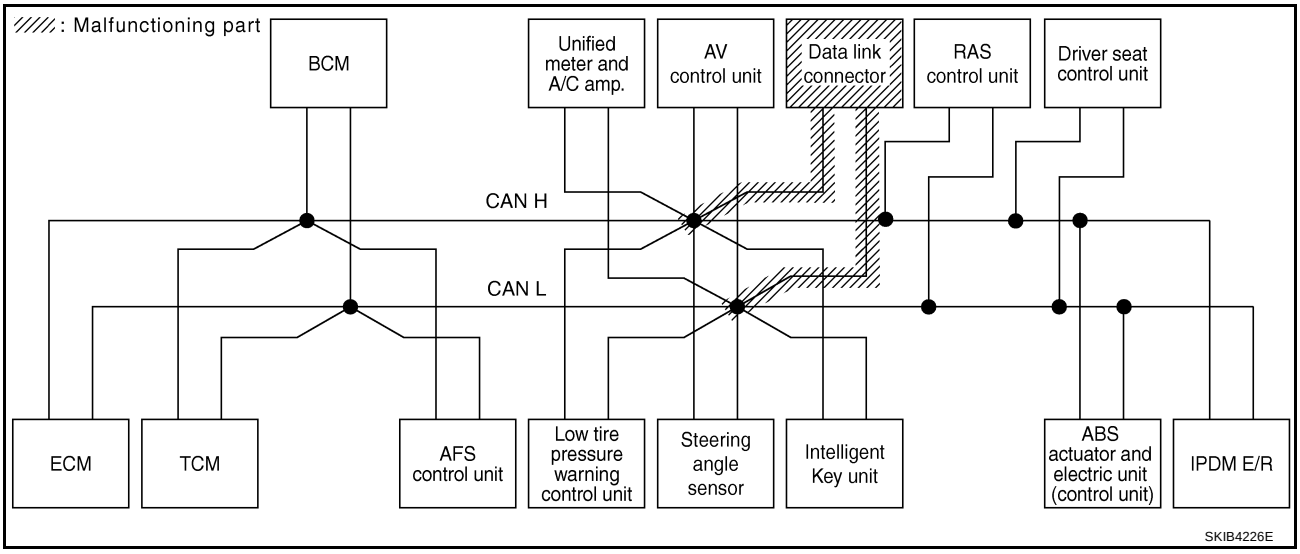


Case 14

Check data link connector circuit. Refer to LAN-310, "Data Link Connector Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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



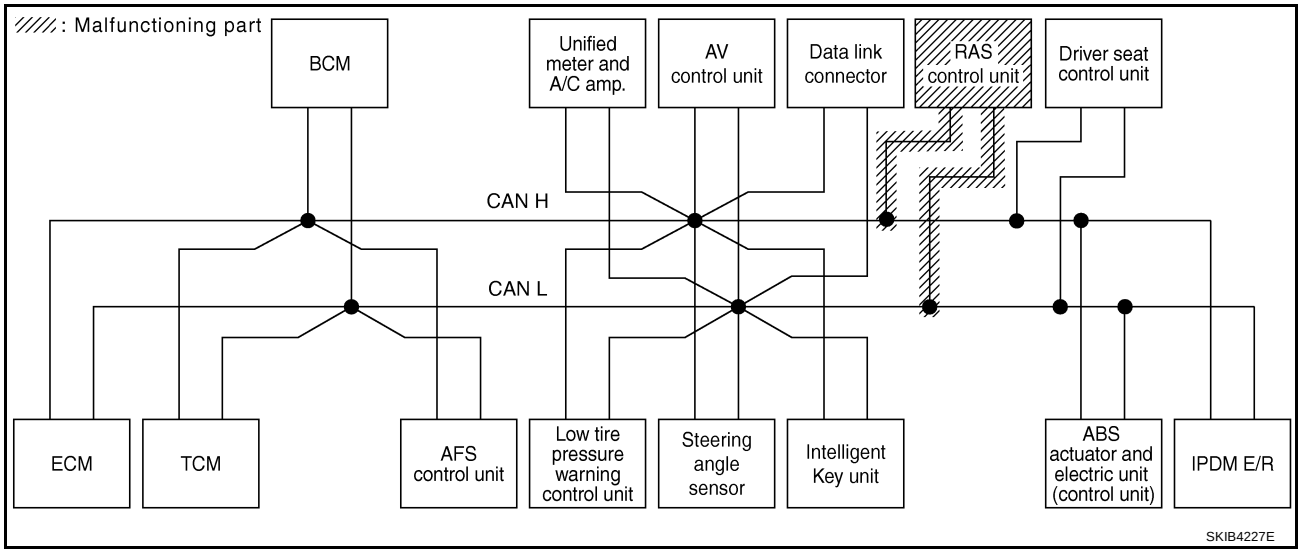
SKIB4226E

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													
				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)	—

PKIB8461E



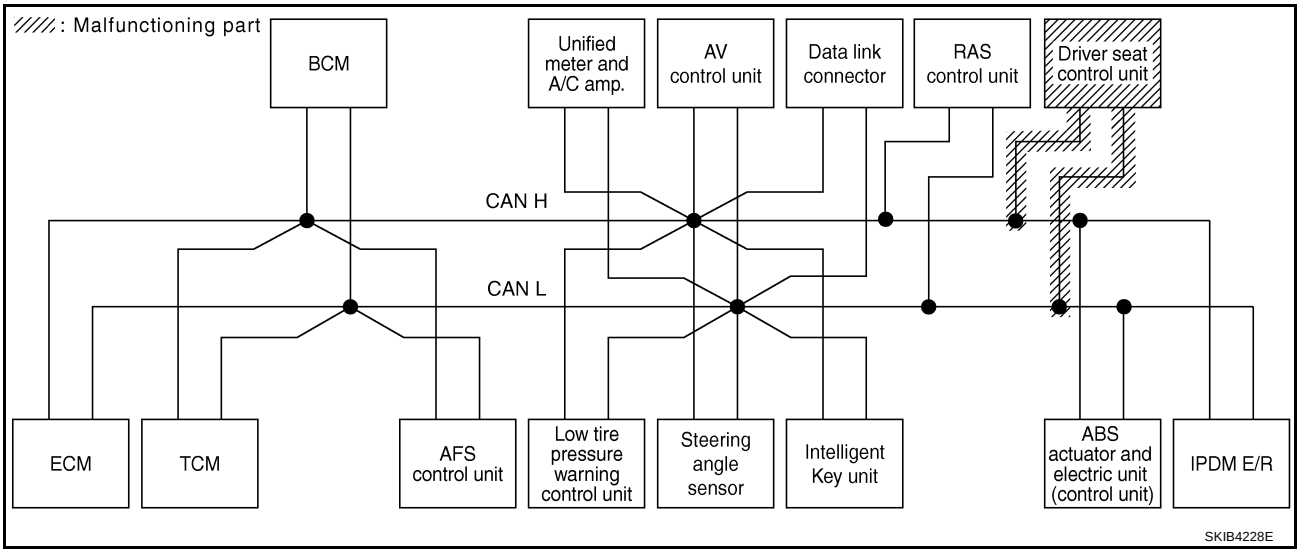
SKIB4227E

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



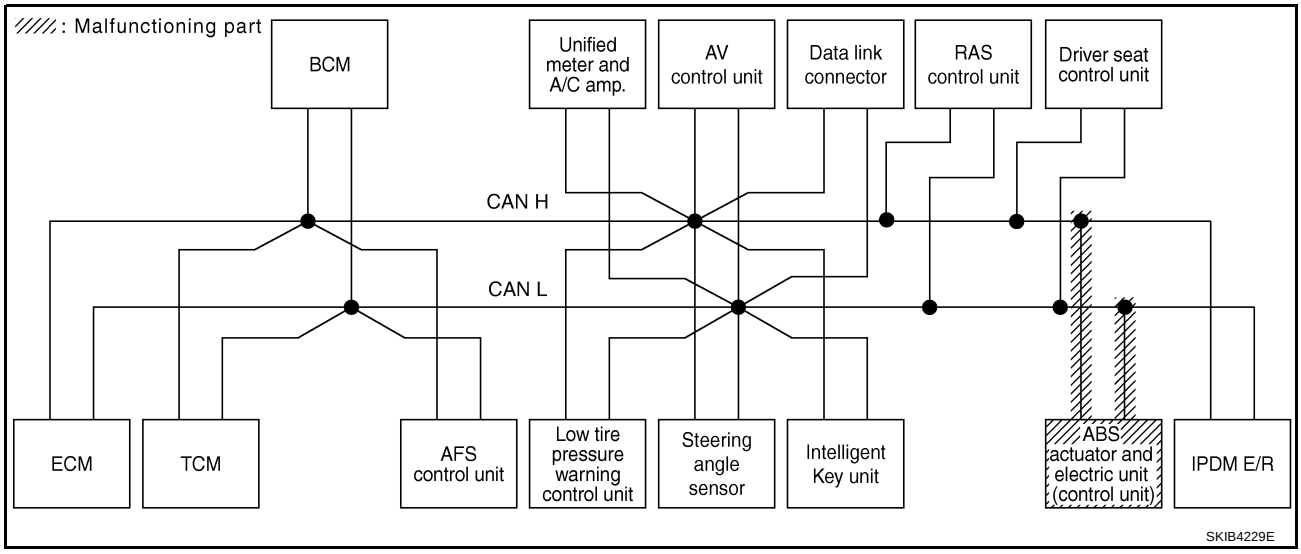
SKIB4228E

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													
				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)	—

PKIB8463E



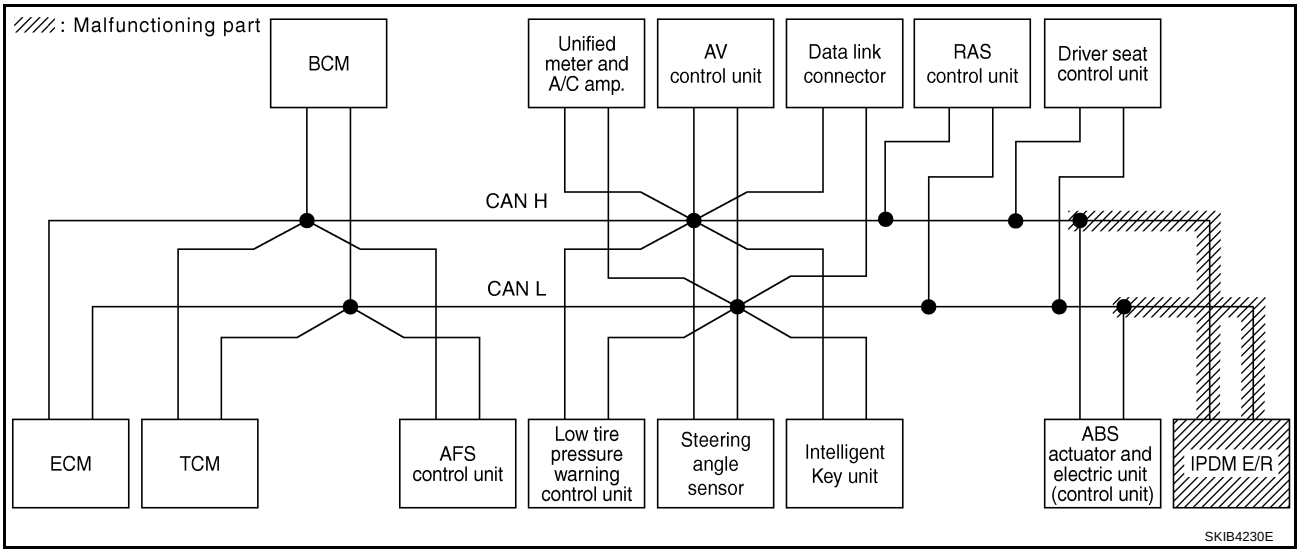
SKIB4229E

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													
				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)	—

PKIB8464E



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													
				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	—	—	—
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)	—

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													
				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)	—

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	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	—	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

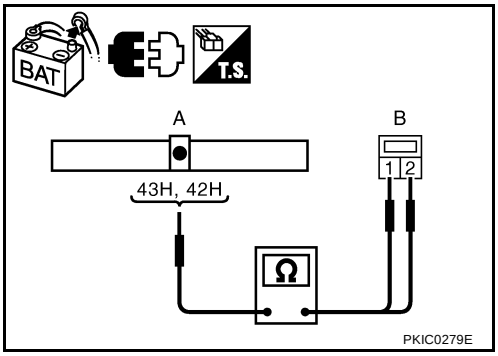
OK or NG

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



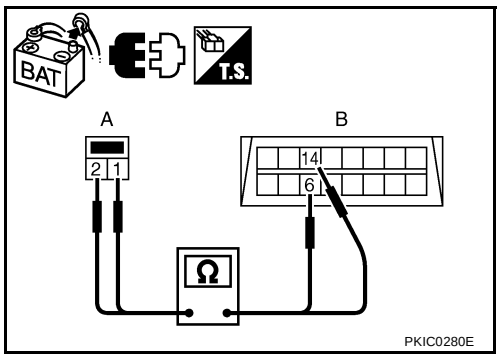
PKIC0279E

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

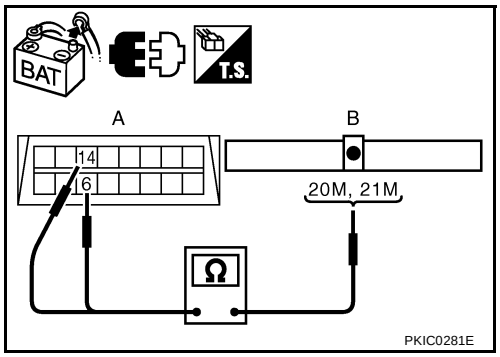
OK or NG

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

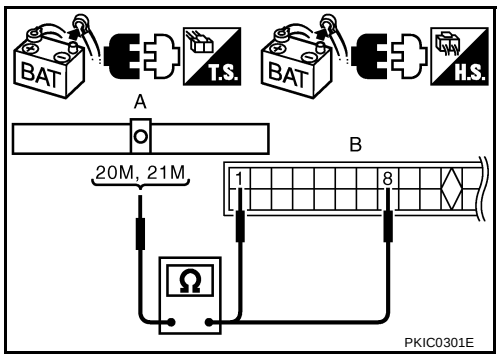
OK or NG

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.

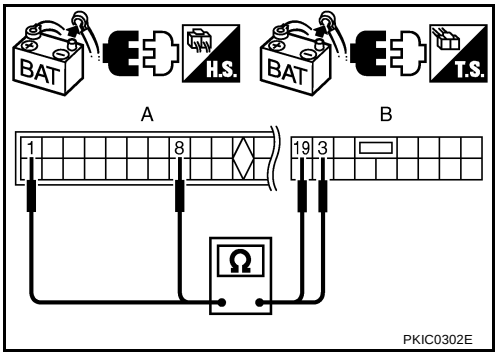
Inspection Between RAS Control Unit and Driver Seat Control Unit Circuit

NKS0041C

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

NKS0041D

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

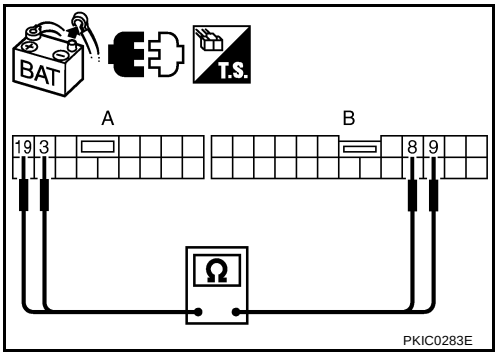
OK >> GO TO 2.

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

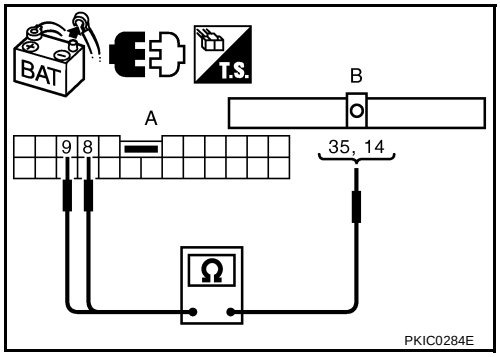
OK >> GO TO 3.

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

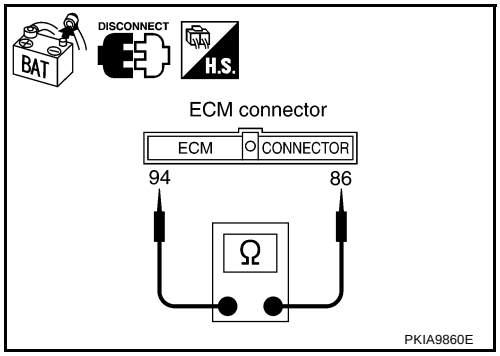
OK >> GO TO 2.

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

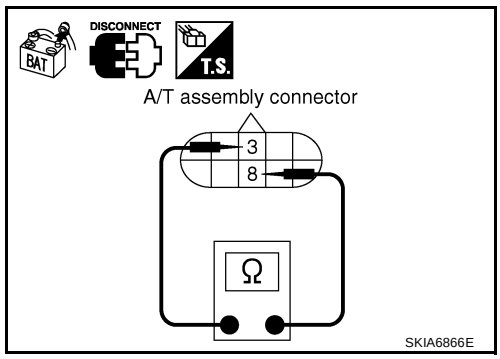
OK >> GO TO 2.

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.

AFS Control Unit Circuit Inspection

NKS0041G

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

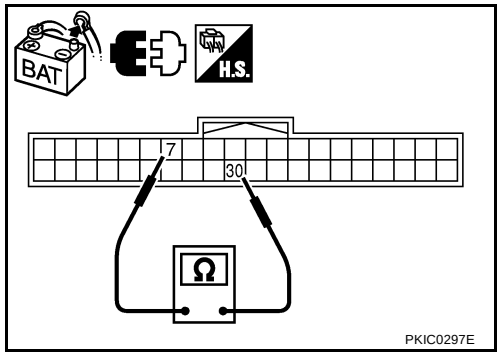
OK or NG

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

NKS0041H

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).

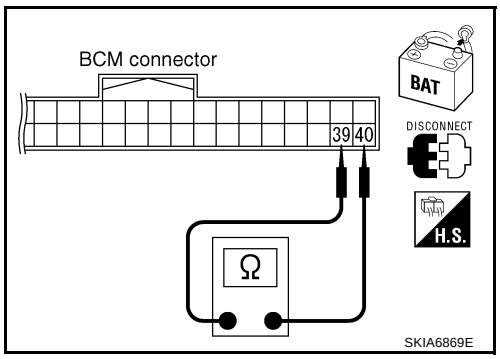
OK or NG

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

NKS0041I

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).

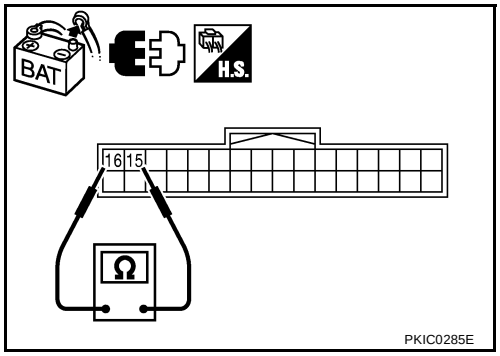
OK or NG

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).

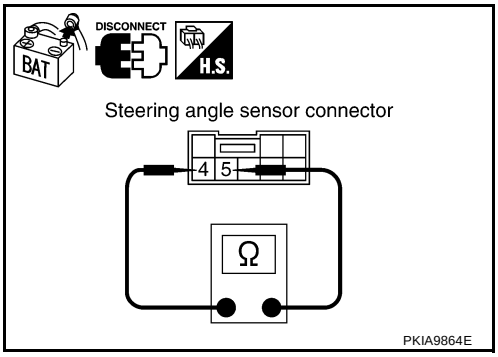
OK or NG

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.)
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

NKS0041K

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).

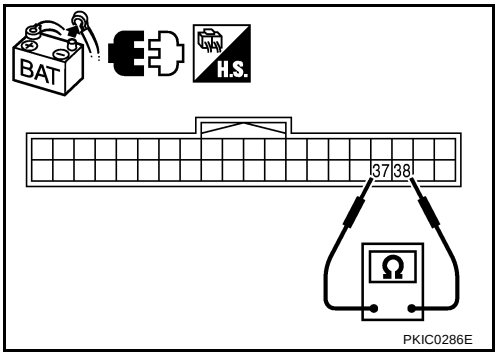
OK or NG

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

NKS0041L

1. CHECK CONNECTOR

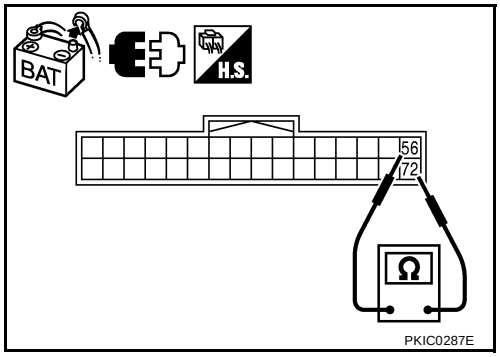
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS0041M

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).

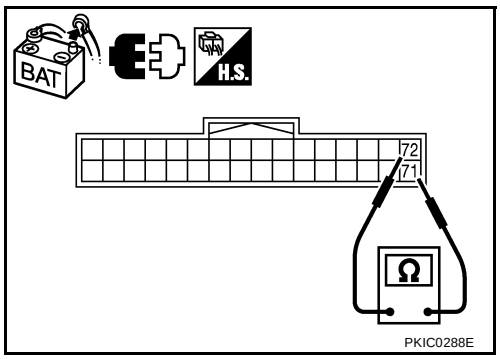
- AV control unit connector
- Harness connector M216
- Harness connector M53

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

NKS0041N

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).

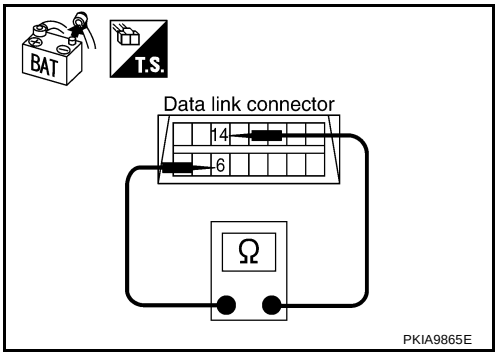
OK or NG

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

NKS0041O

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

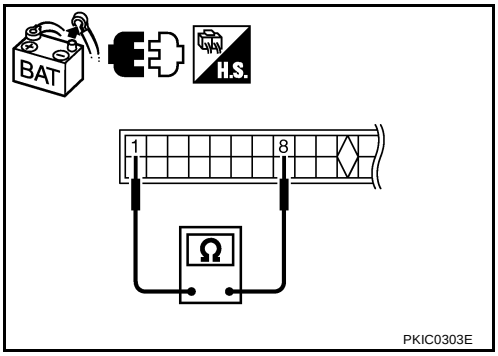
OK >> GO TO 2.

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

NKS0041P

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

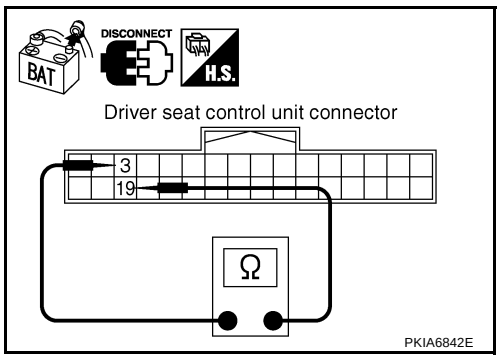
OK >> GO TO 2.

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

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).

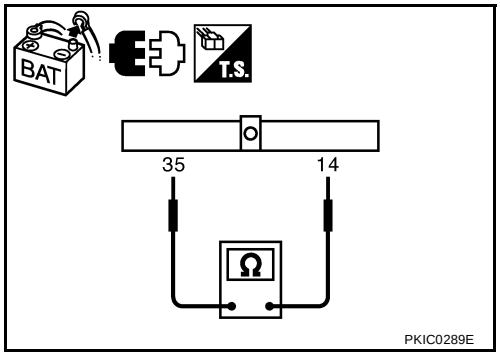
OK or NG

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

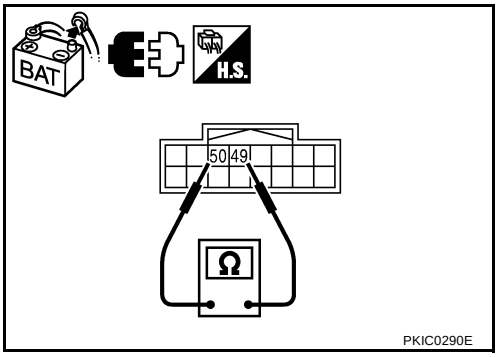
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

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.

CAN Communication Circuit Inspection

NKS0041S

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

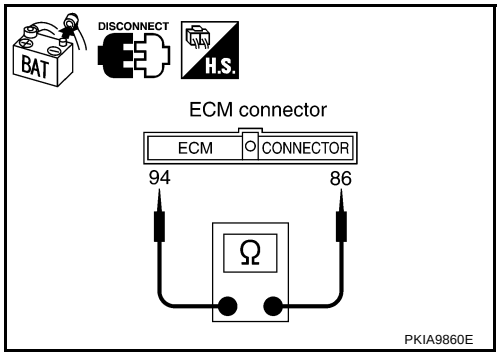
OK >> GO TO 2.
NG >> Repair terminal or connector.

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

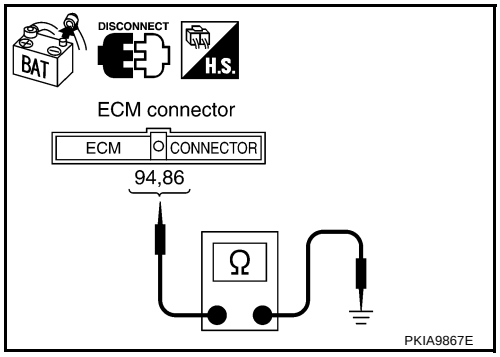
OK >> GO TO 3.

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		Continuity
M71	94	Ground	No
	86		No



OK or NG

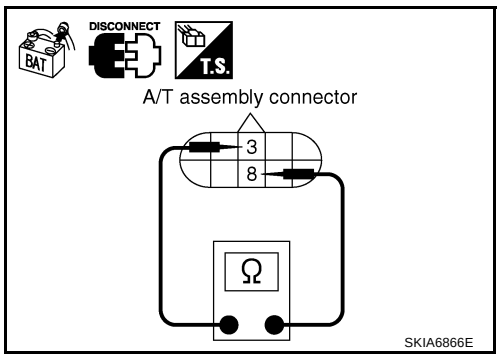
OK >> GO TO 4.

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 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

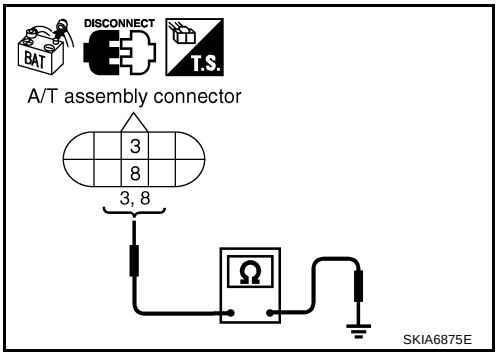
OK >> GO TO 5.

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



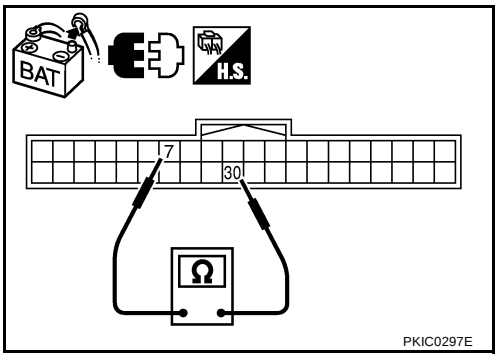
OK or NG

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

6. CHECK HARNESS FOR SHORT CIRCUIT

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

AFS control unit connector	Terminal		Continuity
F110	30	7	No



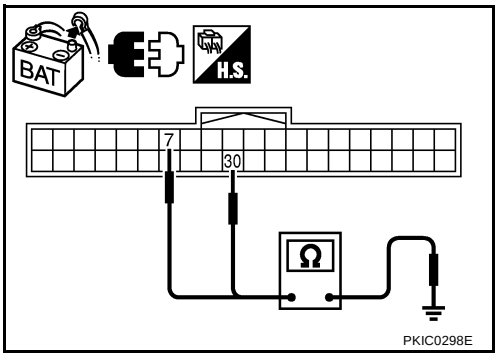
OK or NG

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



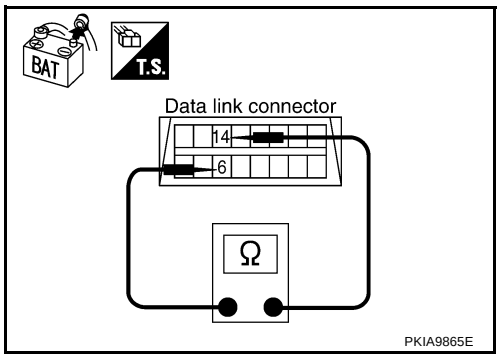
OK or NG

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

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

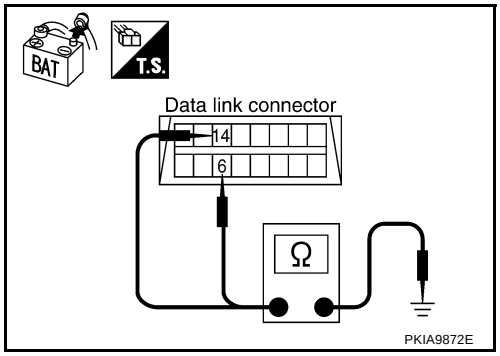
OK >> GO TO 9.

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

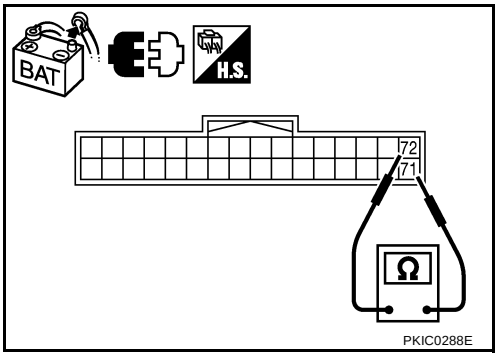
OK >> GO TO 10.

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

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



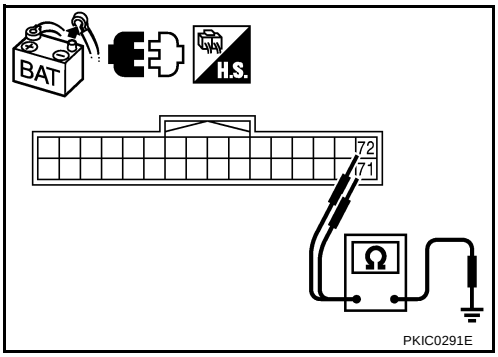
OK or NG

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

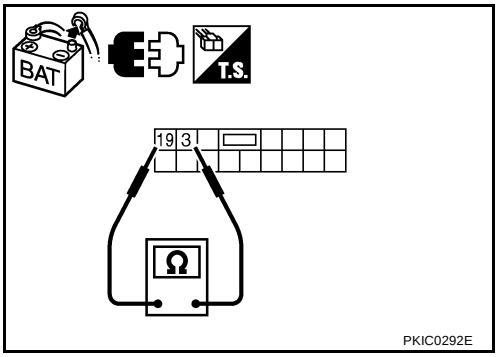
OK >> GO TO 12.
NG >> Repair harness between AV control unit and harness connector M216.

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



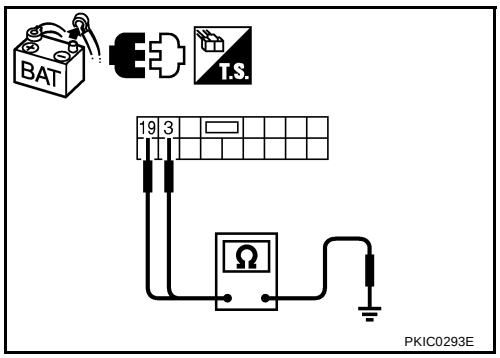
OK or NG

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

13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No



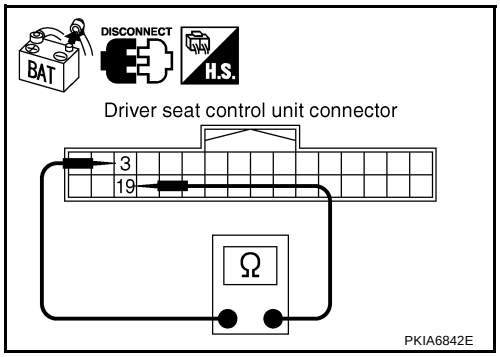
OK or NG

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



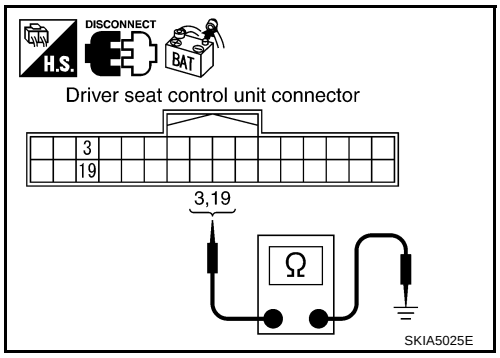
OK or NG

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



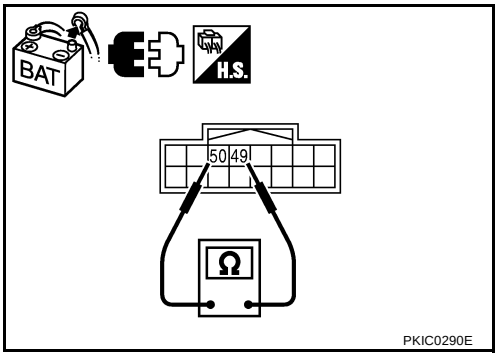
OK or NG

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

16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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.

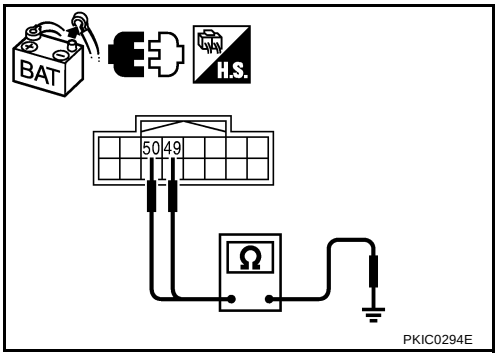
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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)

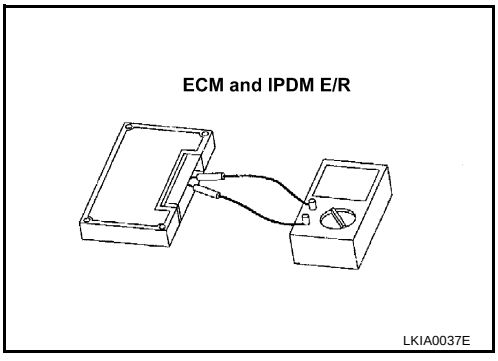
18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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.

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
- 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”" .

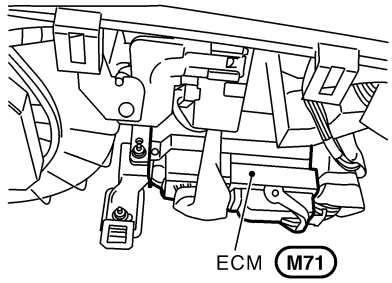
CAN SYSTEM (TYPE 7)

PFP:23710

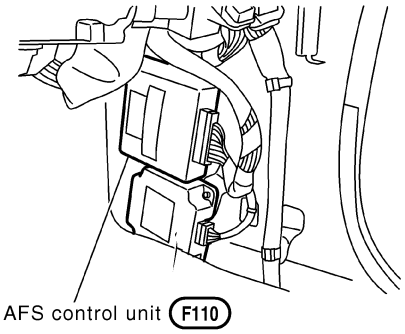
Component Parts and Harness Connector Location

NKS0041U

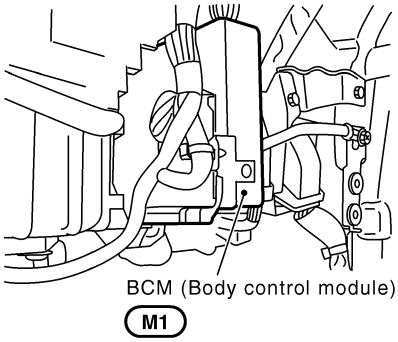
Passenger side view with instrument lower cover removed



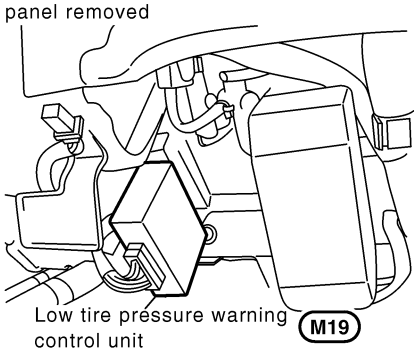
Behind dash side lower RH finisher



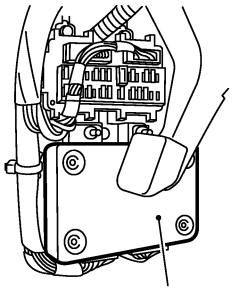
Passenger side view with instrument lower cover removed



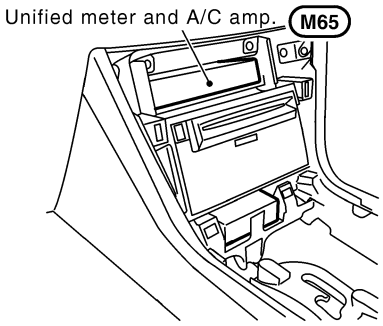
Driver side view with instrument lower panel removed



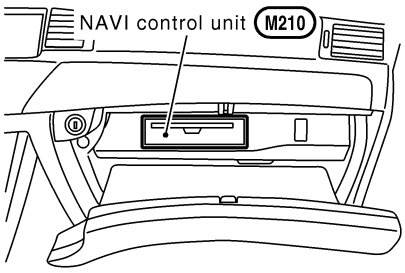
Behind dash side lower LH finisher



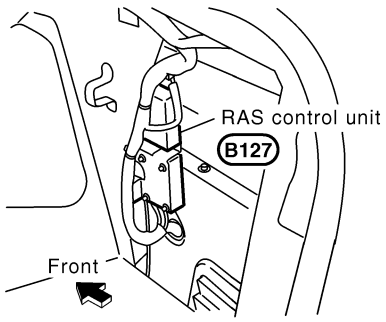
View with cluster lid C removed



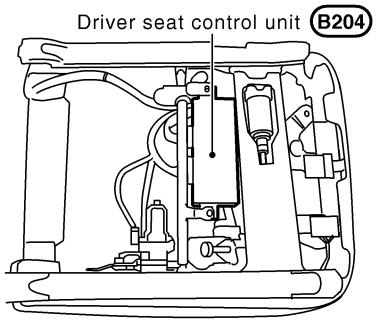
Inside of glove box



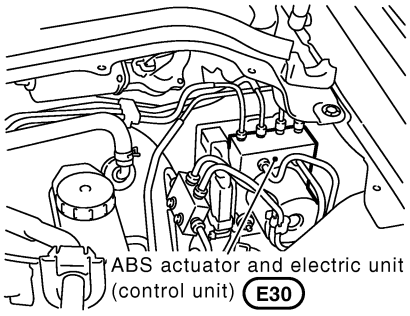
View with trunk side RH finisher removed



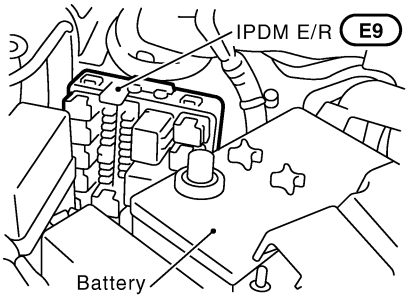
Under driver's seat



Rear left of engine room



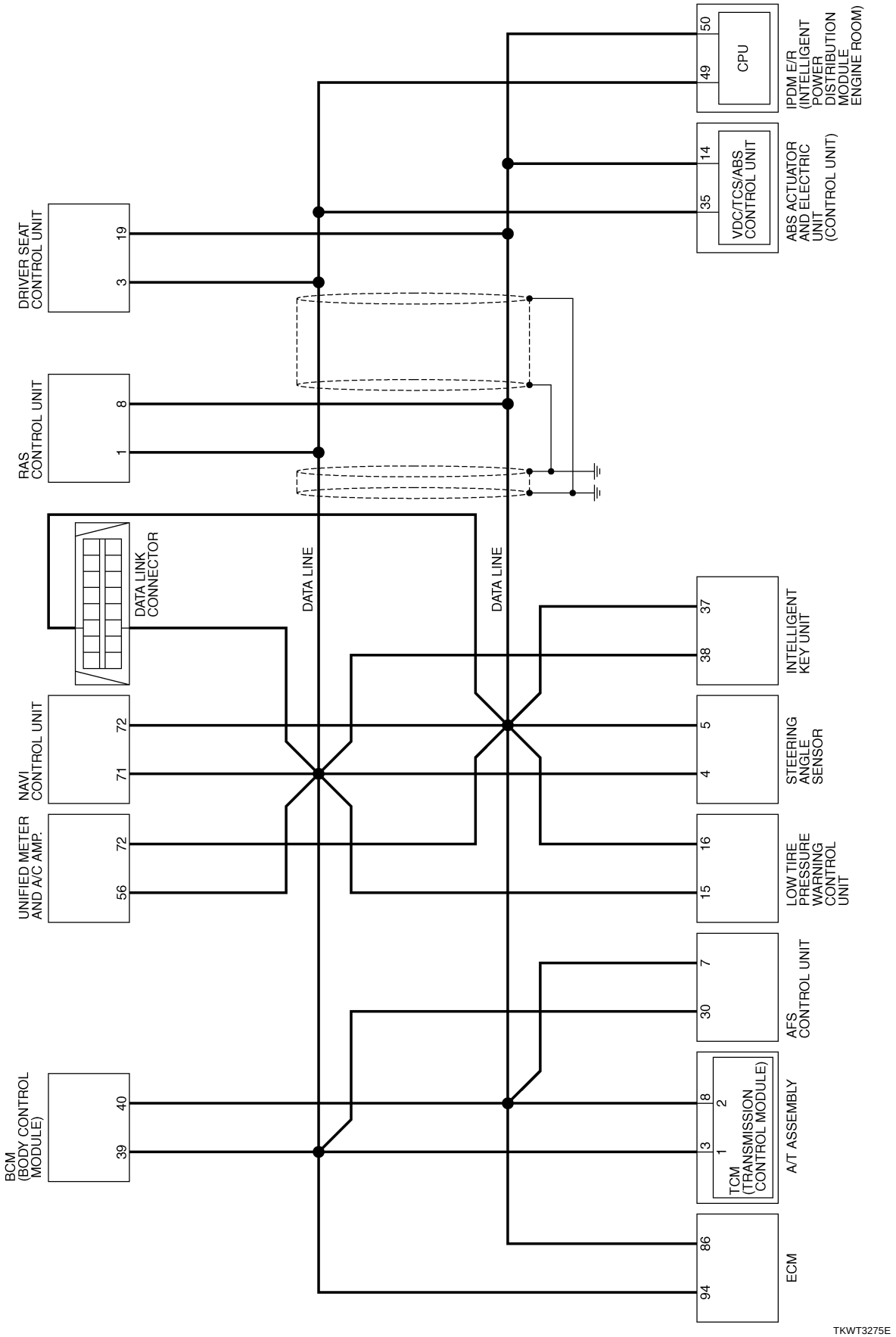
View with cowl top cover removed



PKIC0605E

Schematic

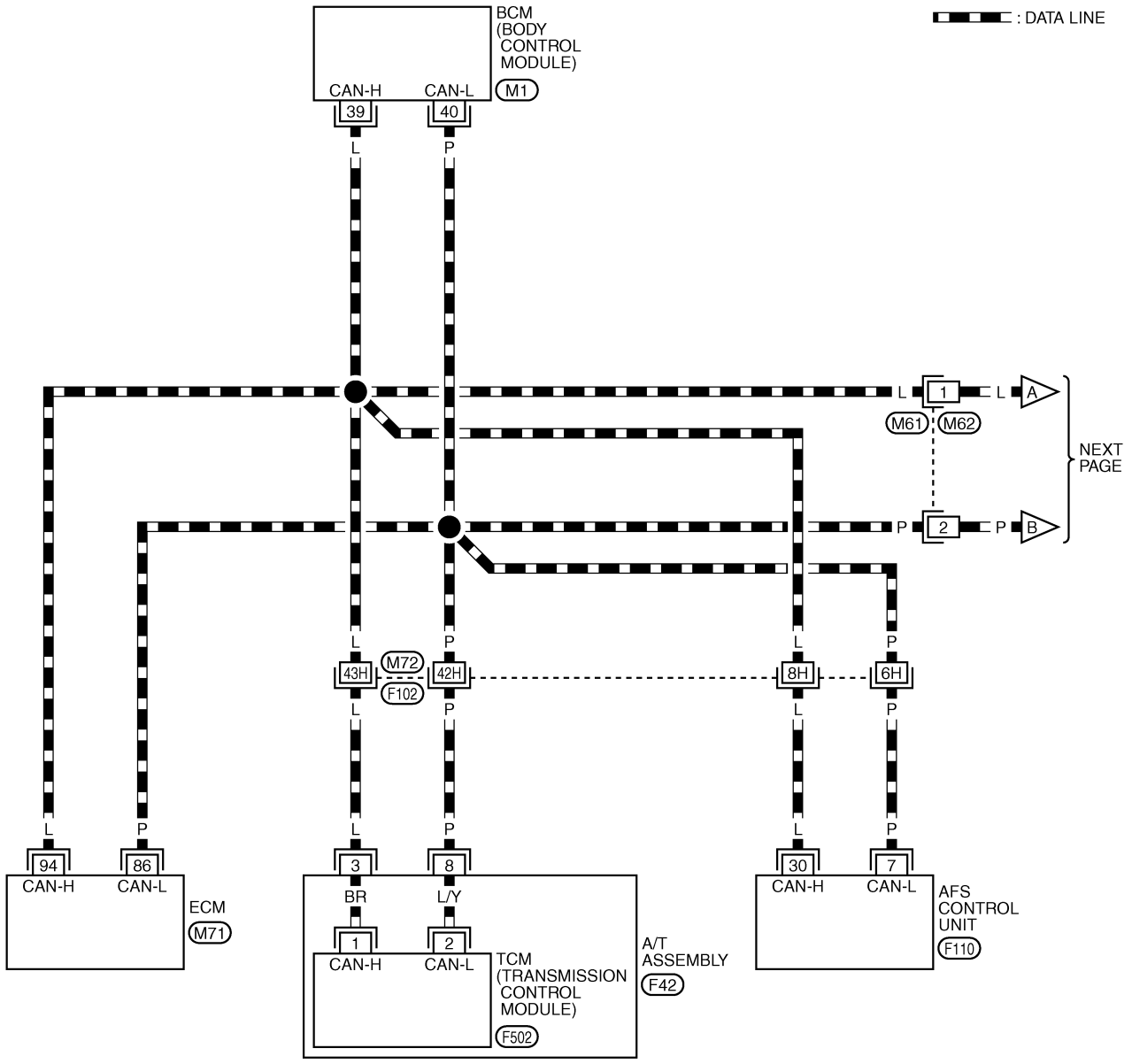
NKS0041V

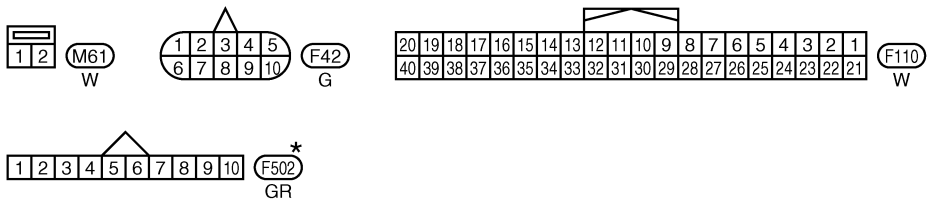


Wiring Diagram — CAN —

NKS0041W

LAN-CAN-23





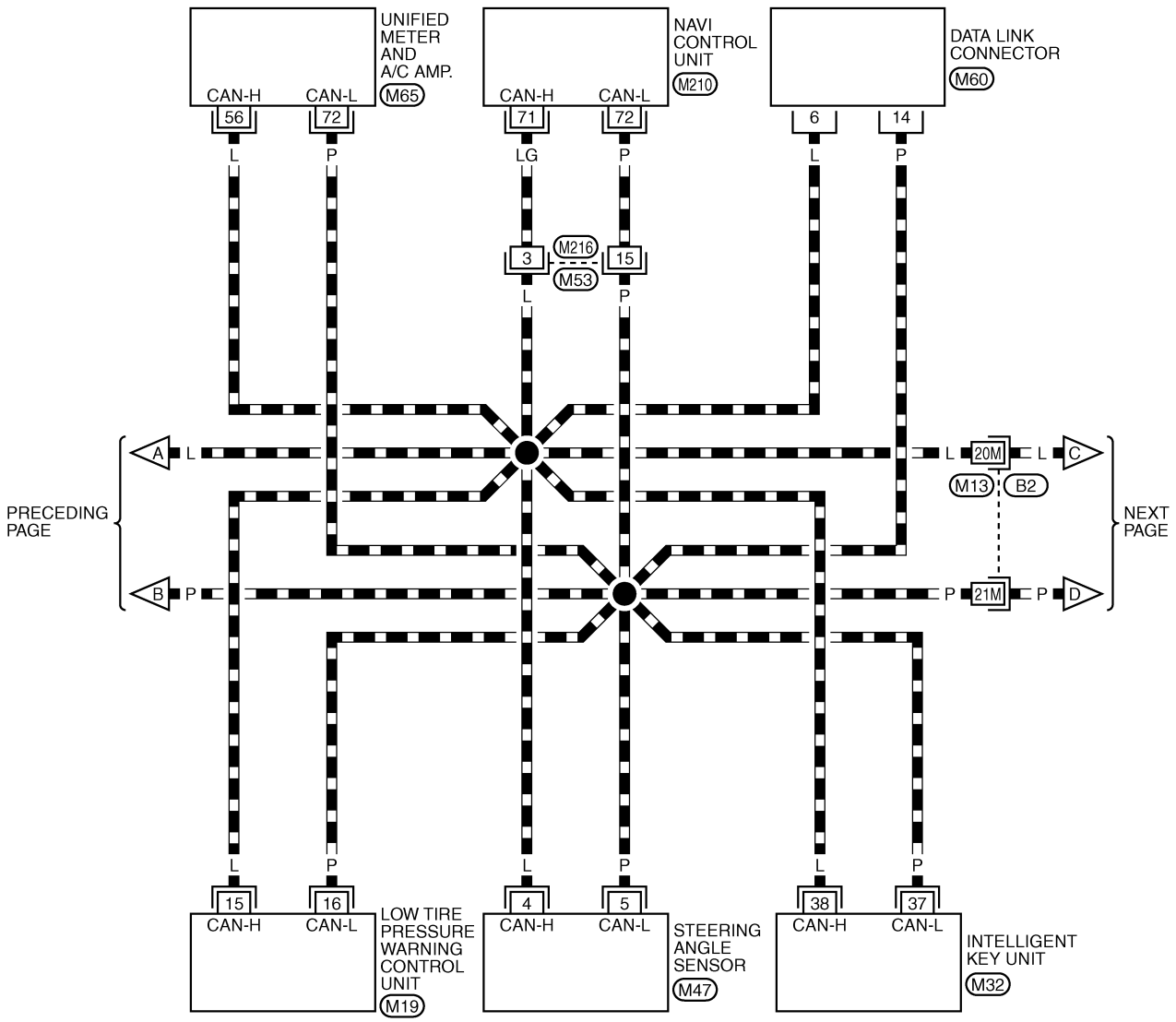
REFER TO THE FOLLOWING.
F102 -SUPER MULTIPLE JUNCTION (SMJ)
M1 , M71 -ELECTRICAL UNITS

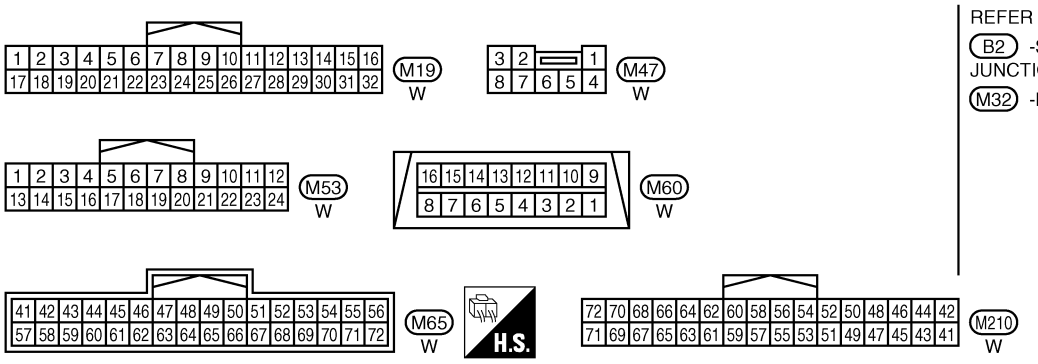
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3276E

LAN-CAN-24

: DATA LINE





REFER TO THE FOLLOWING.

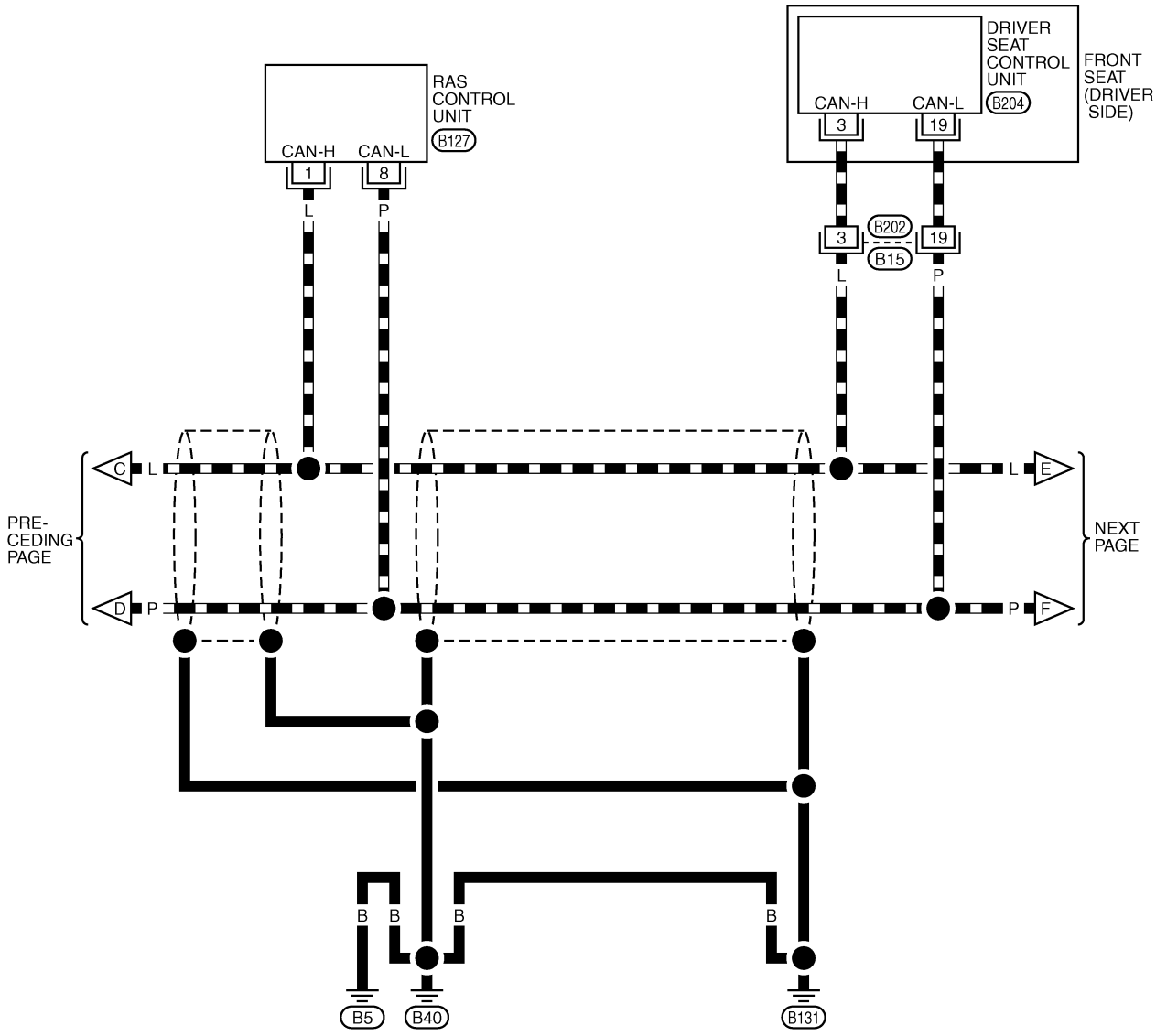
B2 -SUPER MULTIPLE JUNCTION (SMJ)

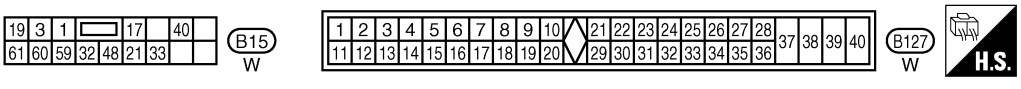
M32 -ELECTRICAL UNITS

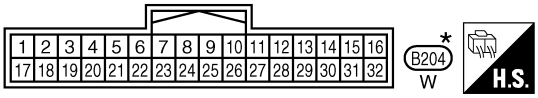
TKWT3277E

LAN-CAN-25

: DATA LINE





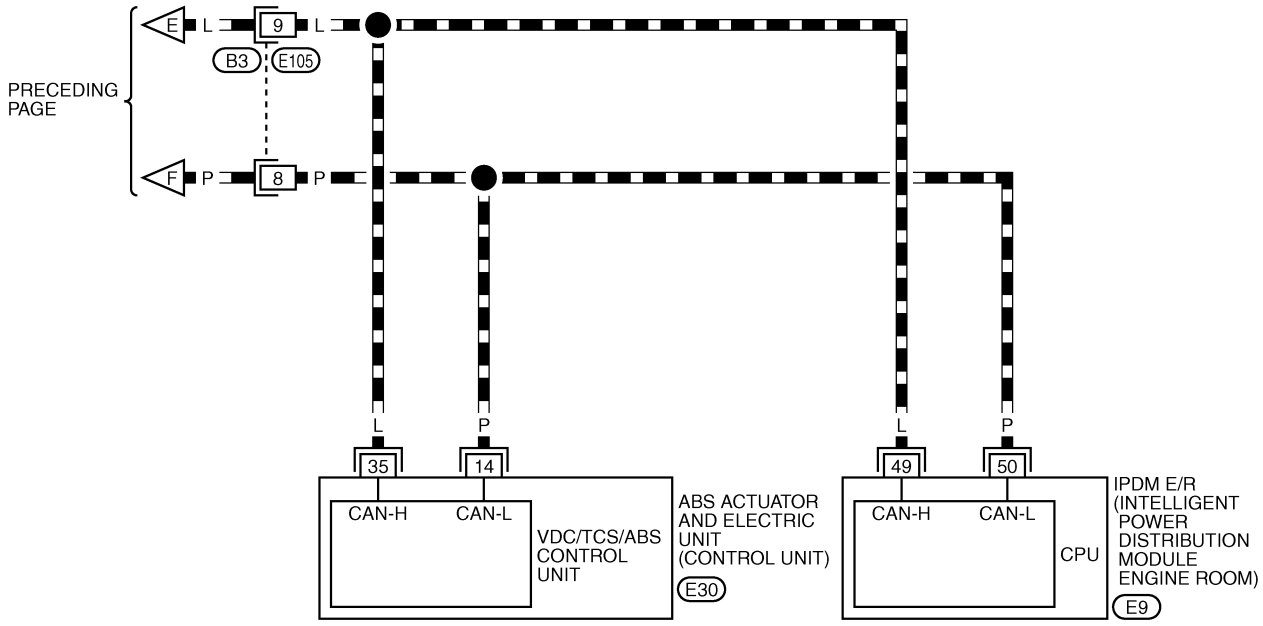


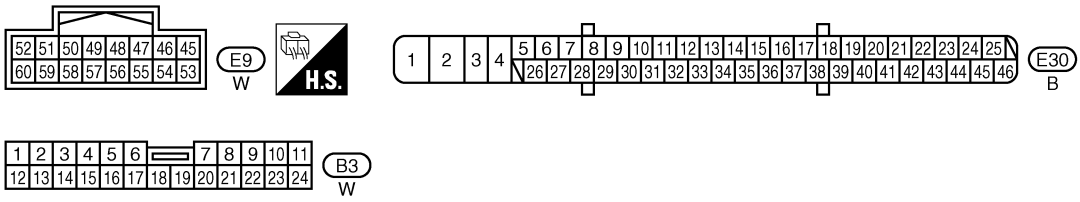
∗: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3278E

LAN-CAN-26

: DATA LINE





TKWT3279E

Check Sheet

NKS0041X

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	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)	—

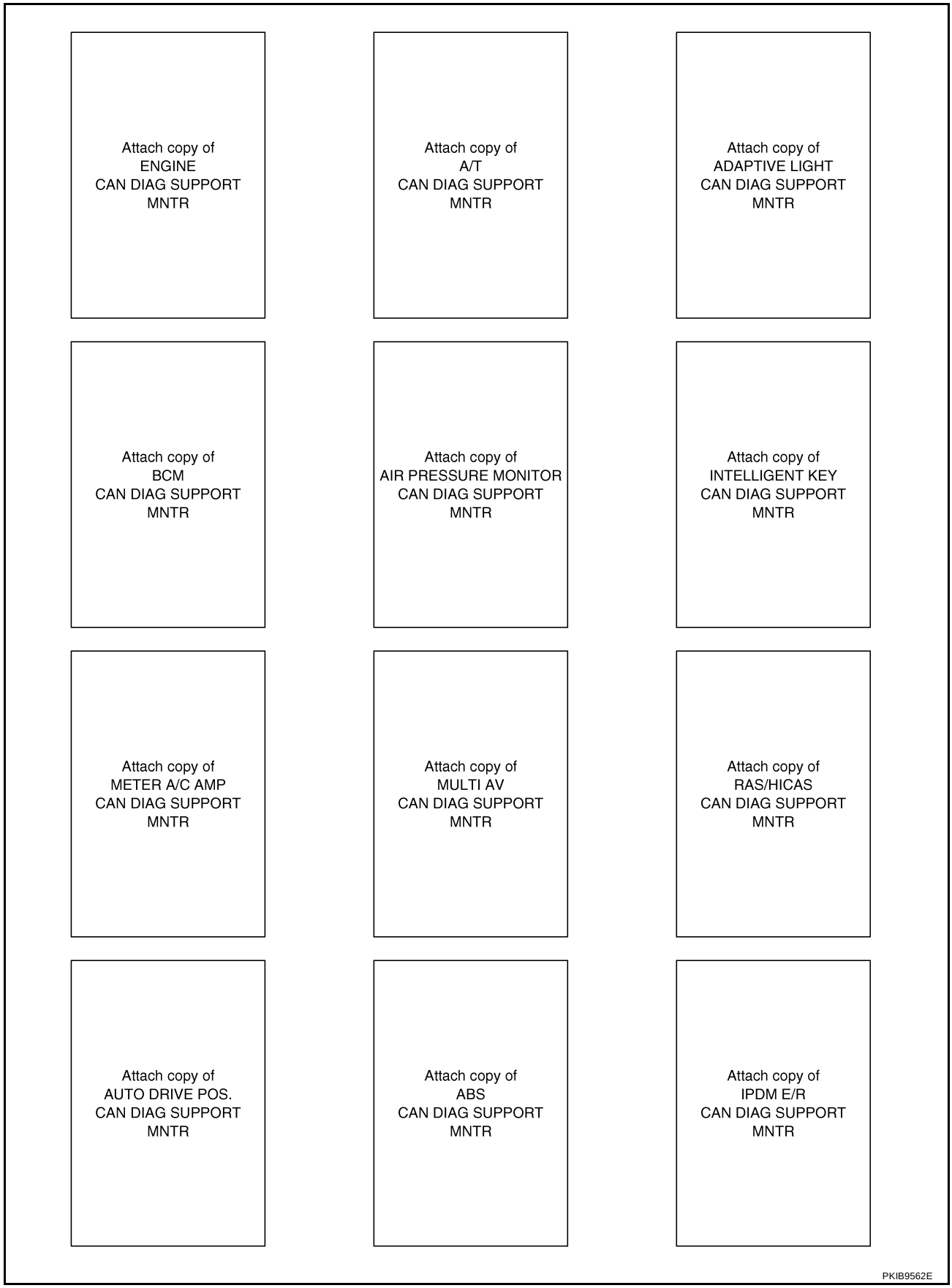
Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIB8446E

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


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
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METER A/C AMP
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MNTR
Attach copy of
MULTI AV
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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

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

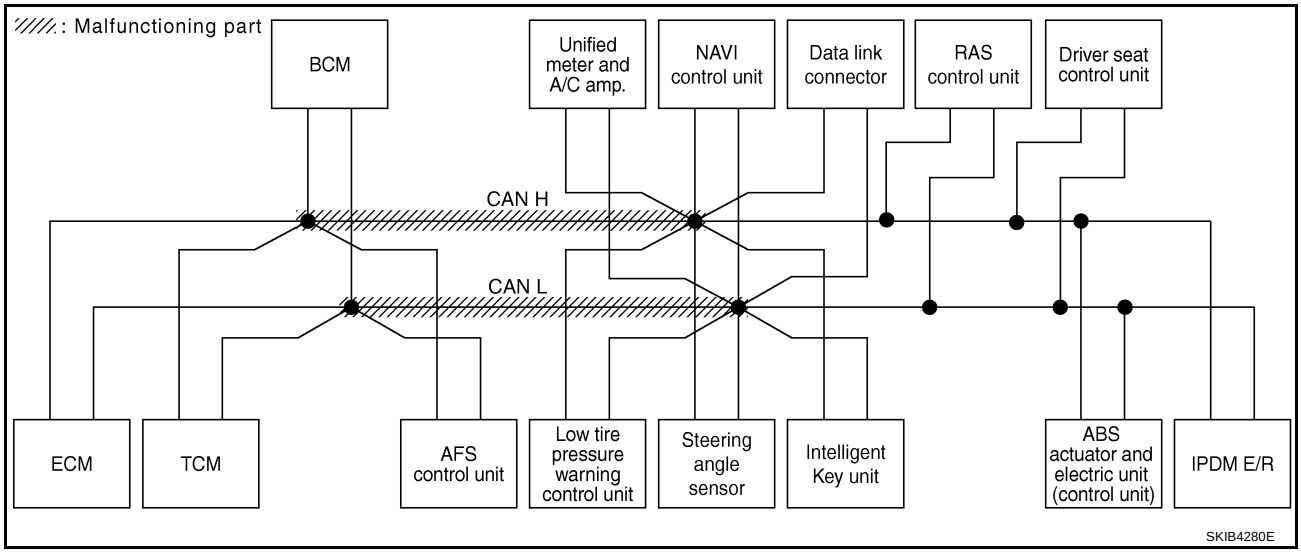
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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													
				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) ✓	—

PKIB8447E



SKIB4280E

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												
				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) ✓	—

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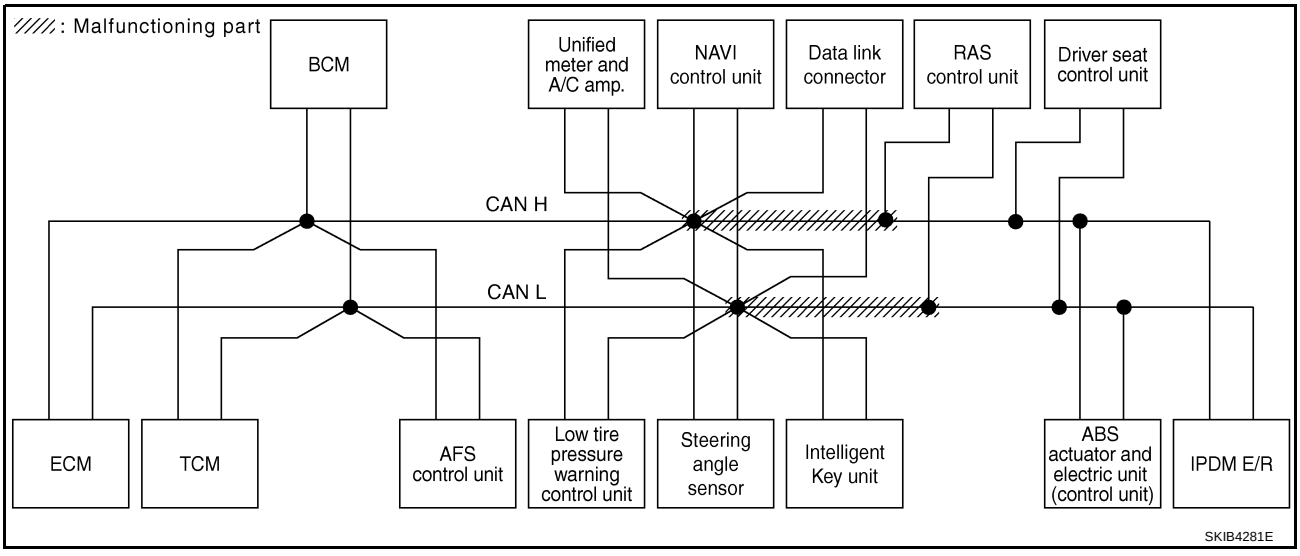

Case 3

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													
				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)	—

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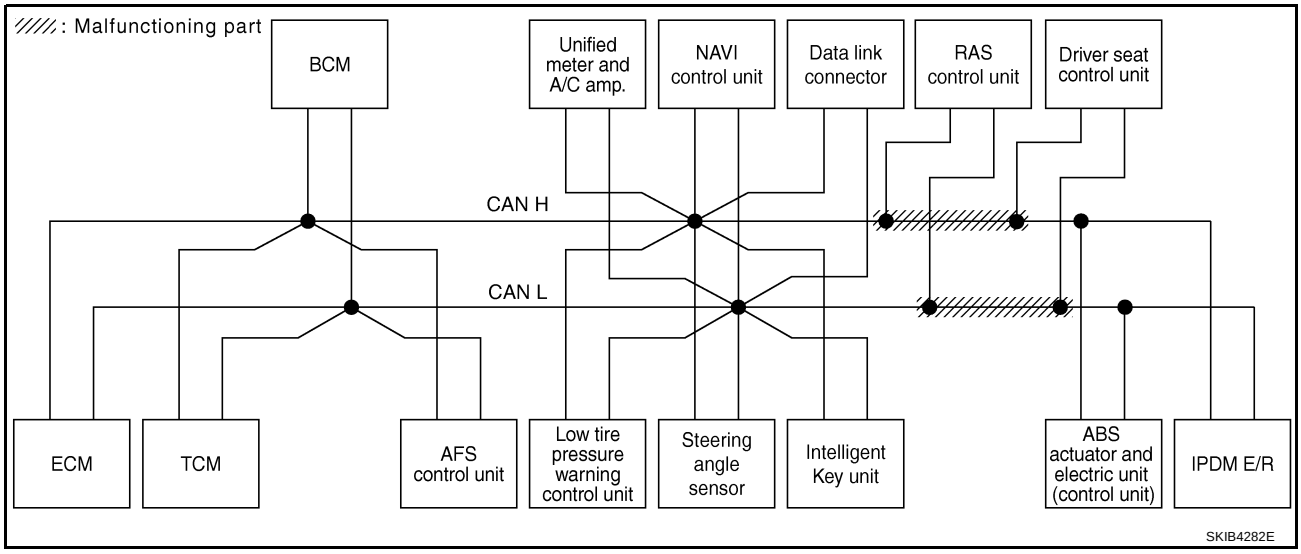

Case 4

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													
				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)	—

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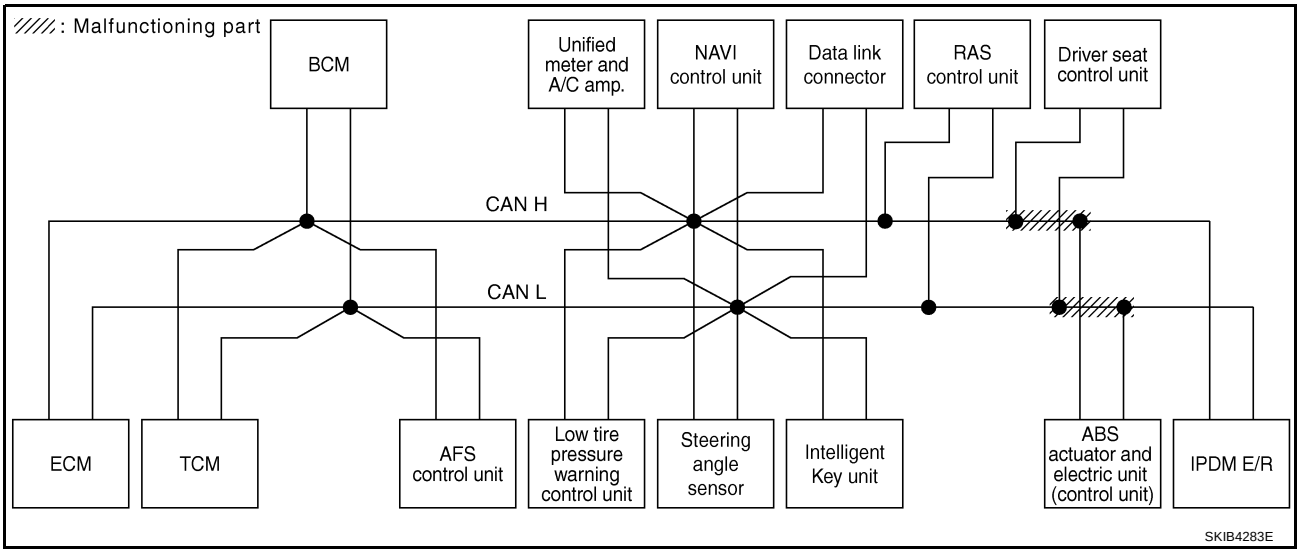
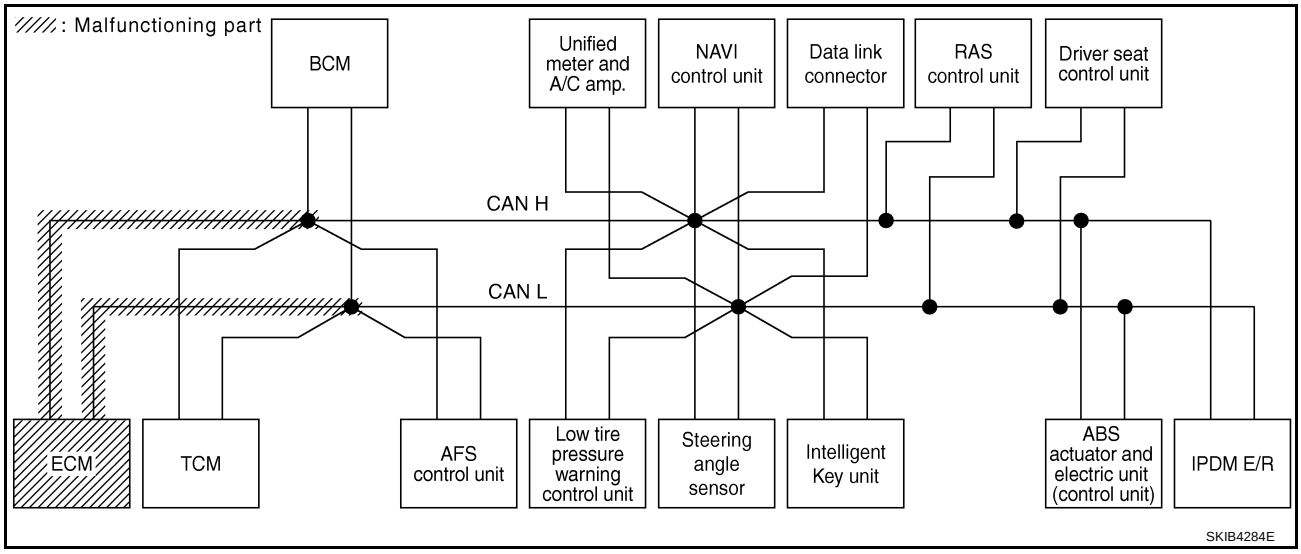


Case 5

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													
				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)	—

PKIB8451E



SKIB4284E

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	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)	—

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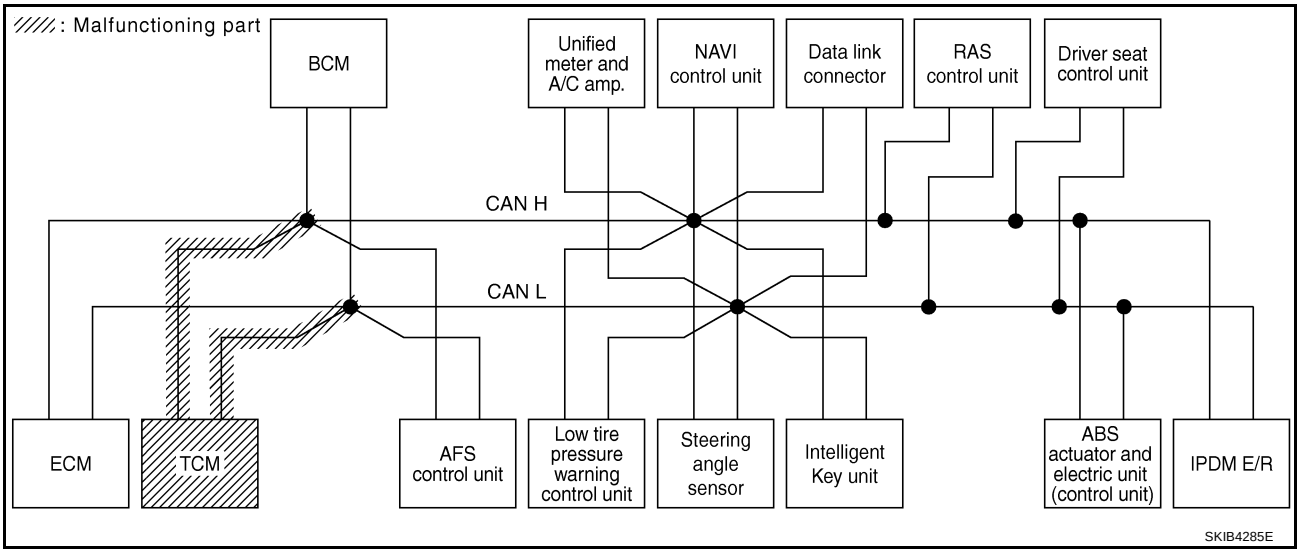

Case 7

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													
				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)	—

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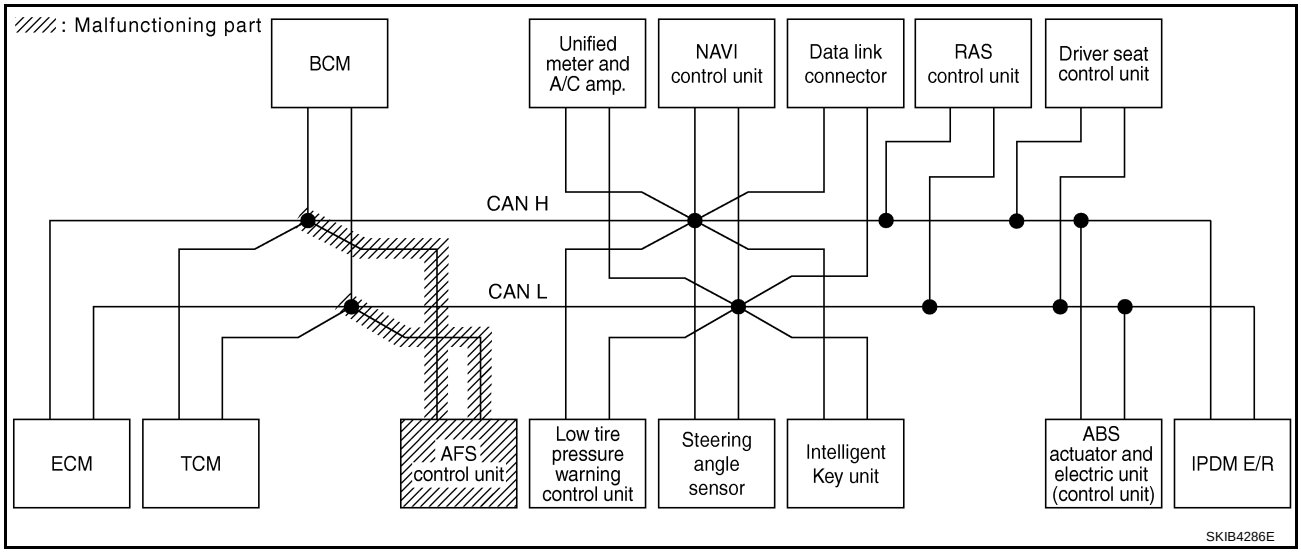

Case 8

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	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) ✓	—

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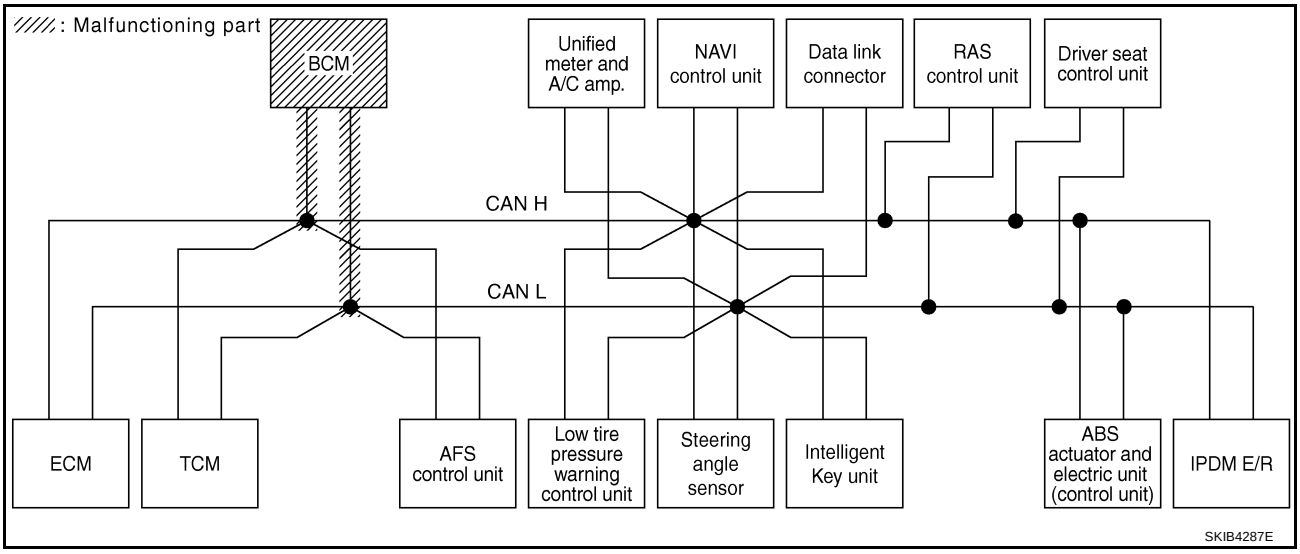
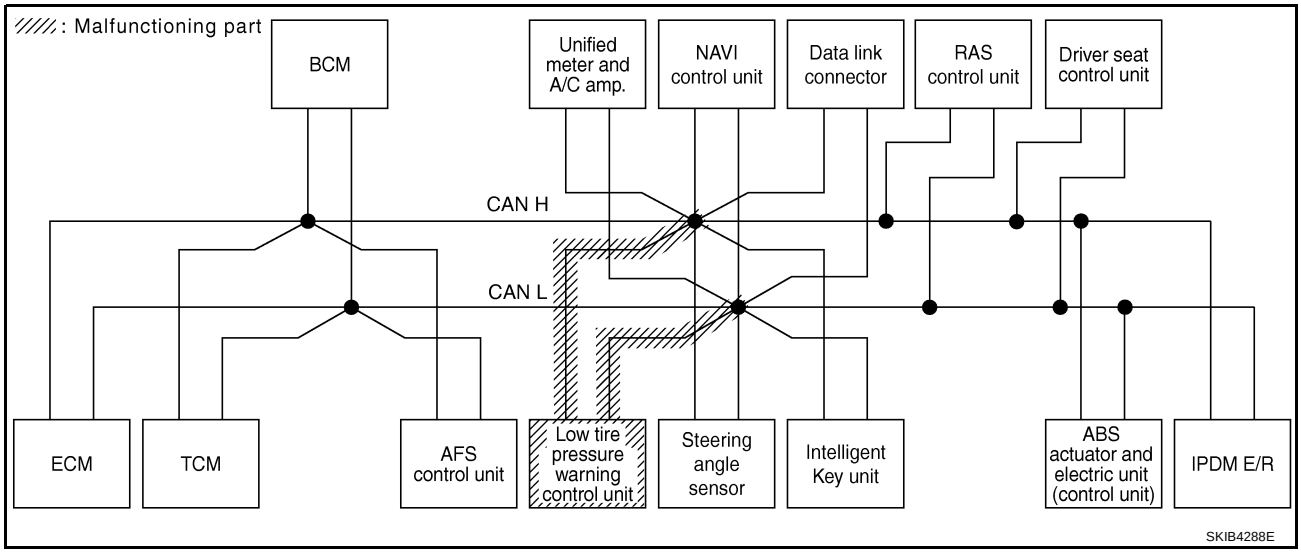


Case 9

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													
				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)	—

PKIB8455E



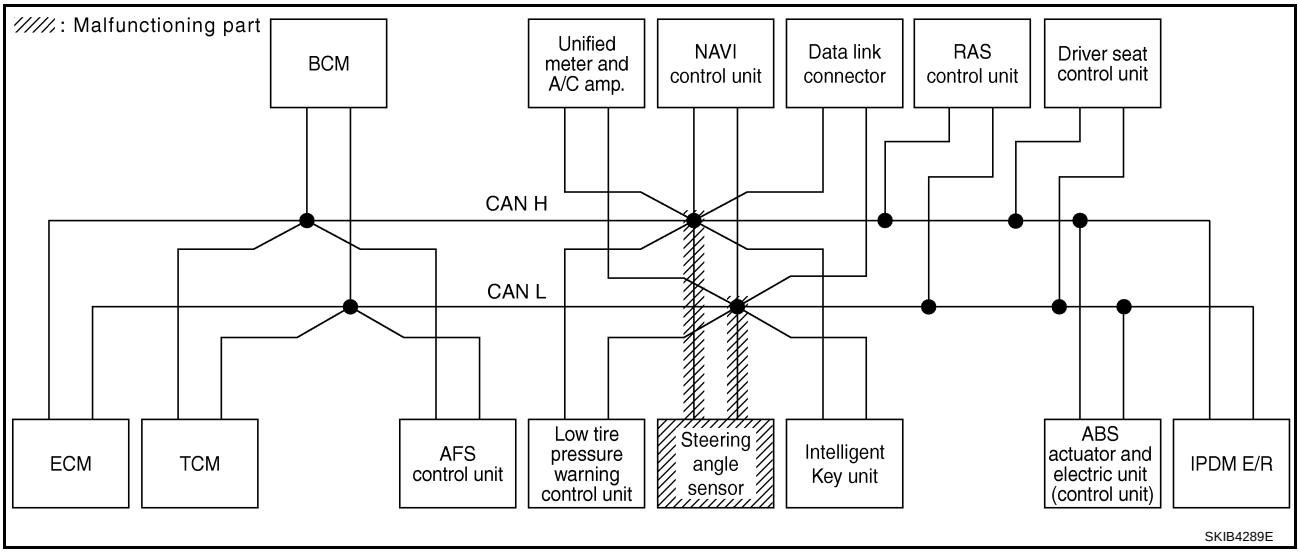
SKIB4288E

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

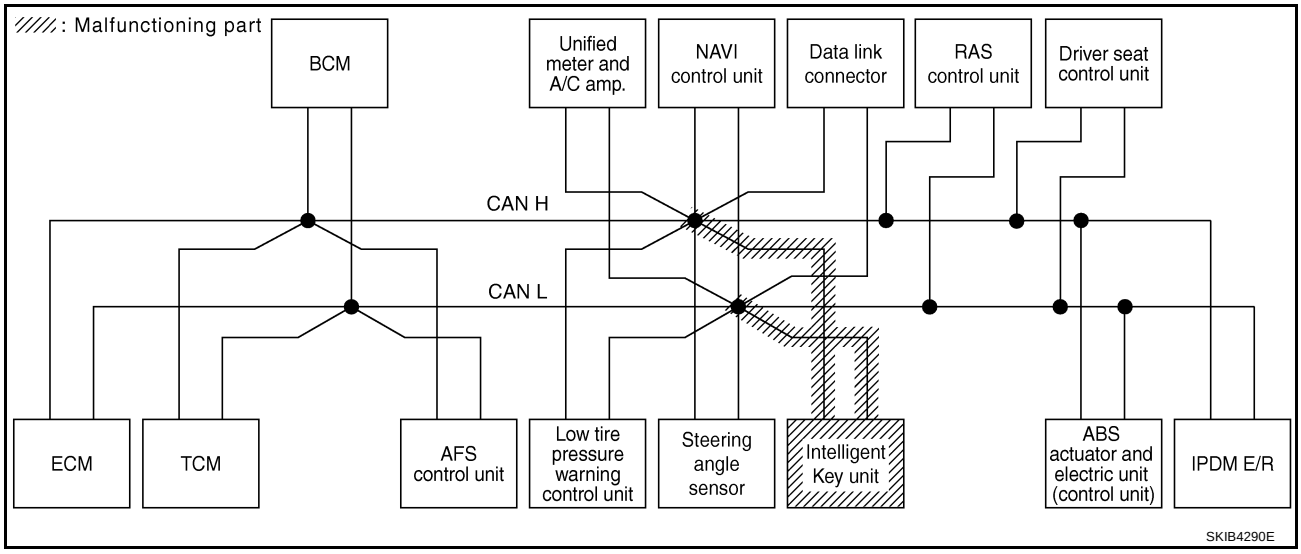


Case 11

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													
				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)	—

PKIB8457E

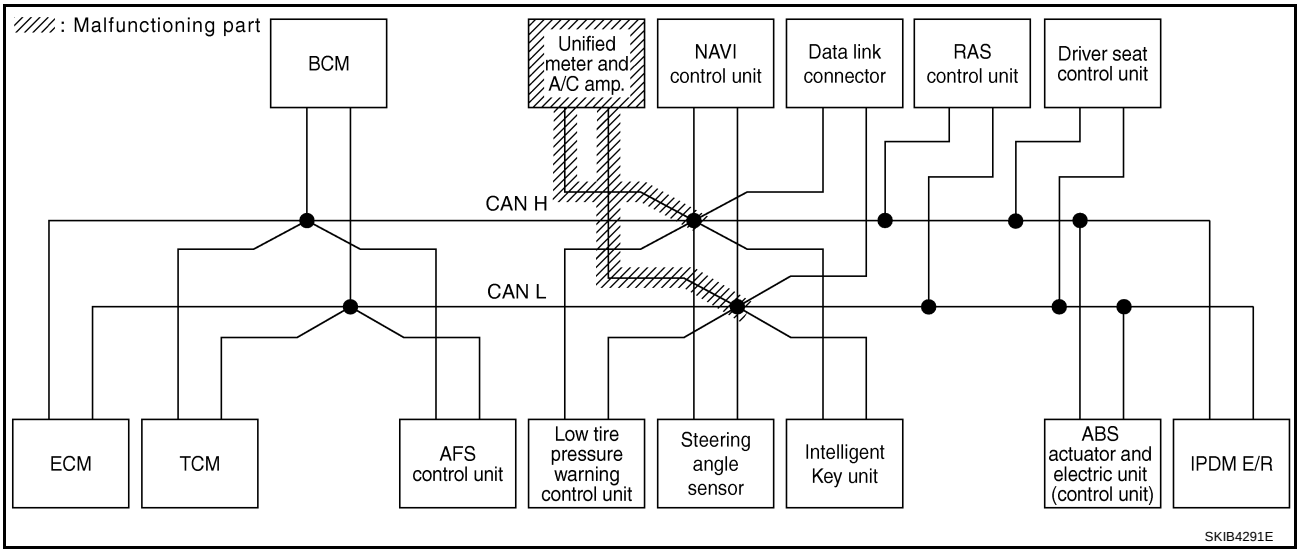


Case 12

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													
				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)	—

PKIB8458E

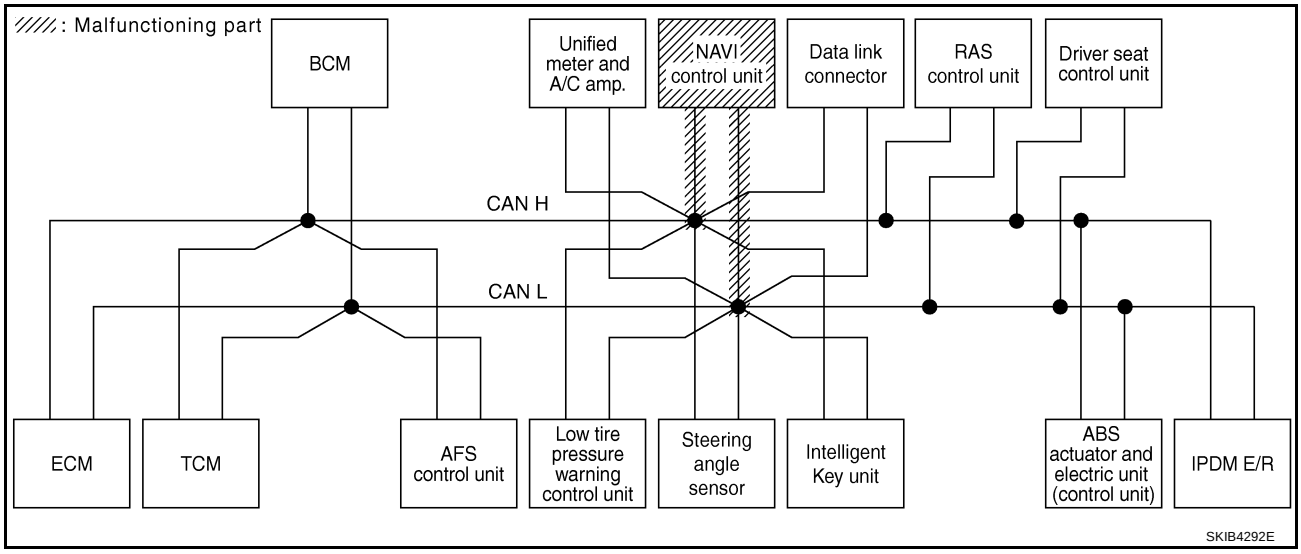


Case 13

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													
				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)	—

PKIB8459E

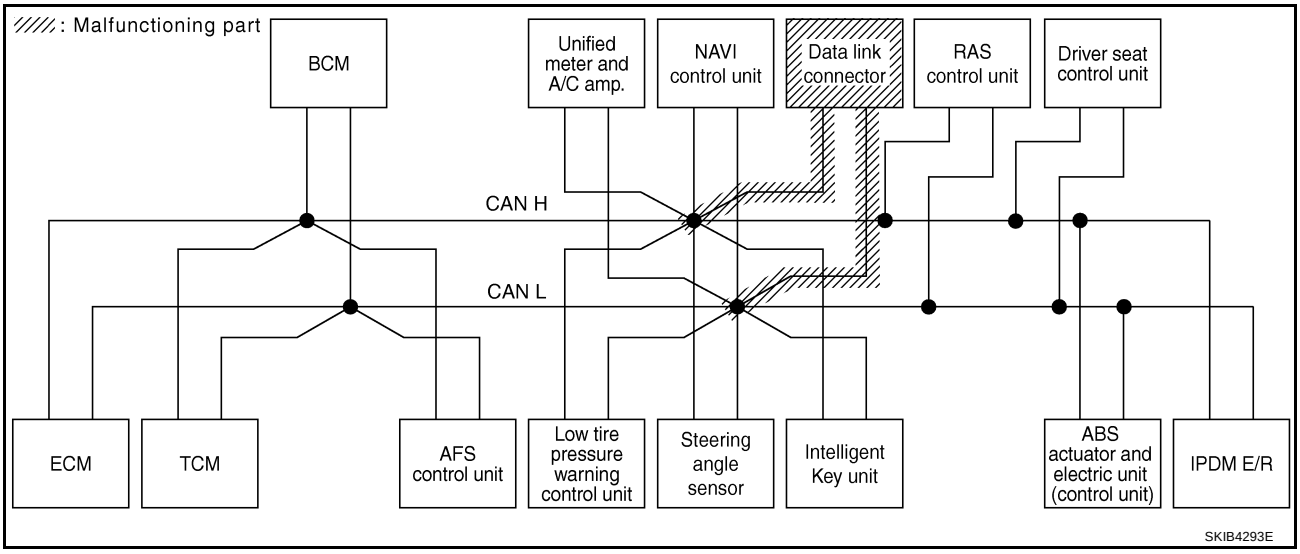


Case 14

Check data link connector circuit. Refer to LAN-356, "Data Link Connector Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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



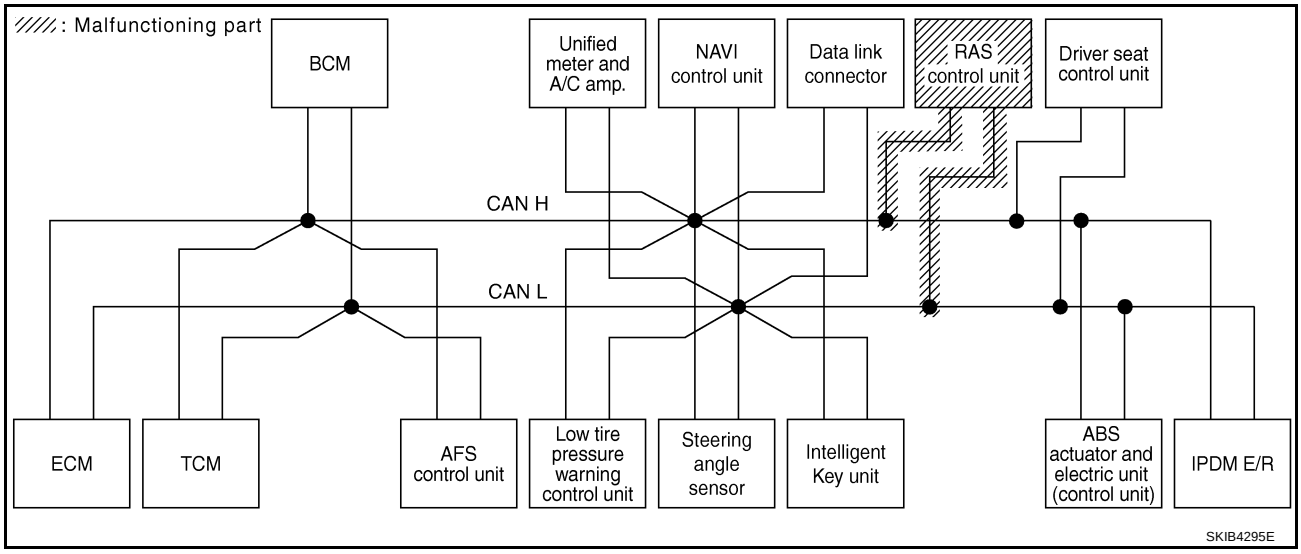
SKIB4293E

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													
				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)	—

PKIB8461E

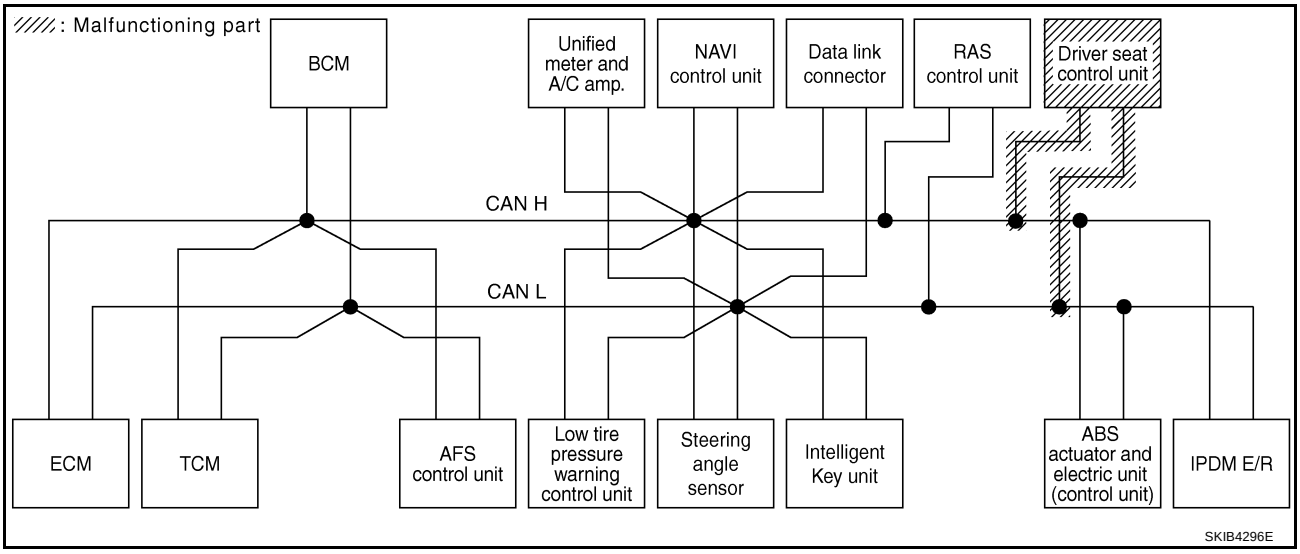


Case 16

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



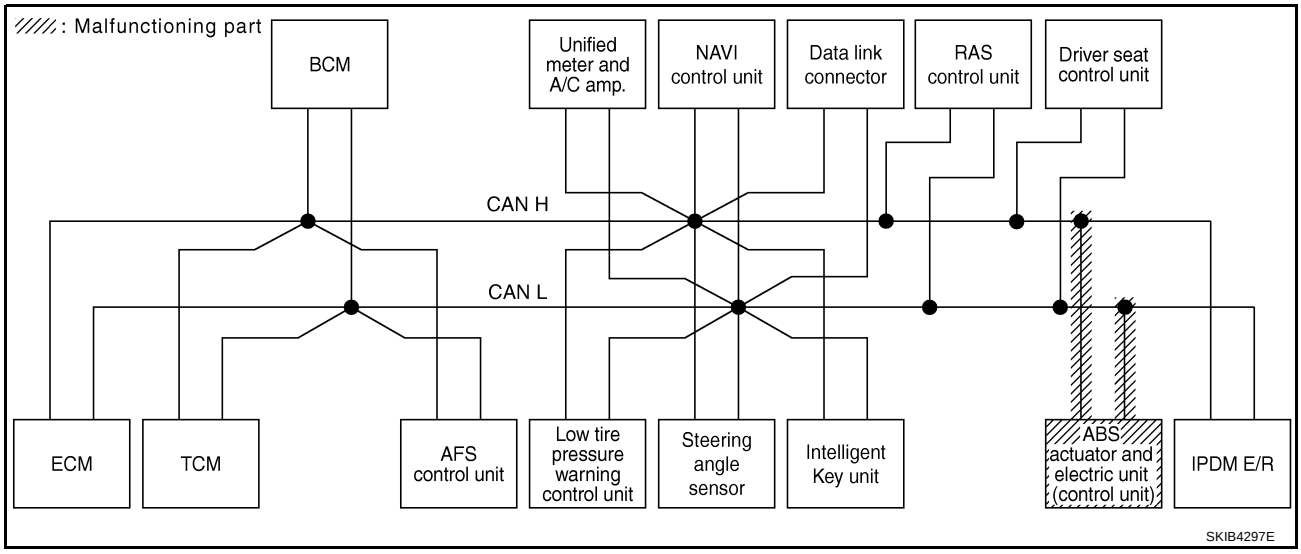
SKIB4296E

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	—	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



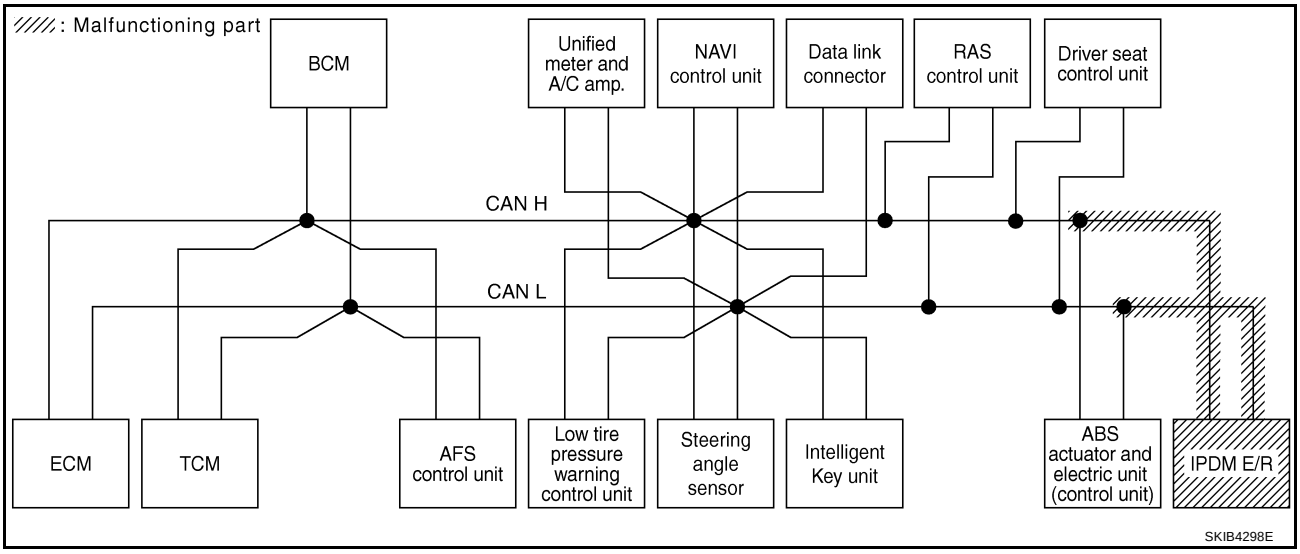
SKIB4297E

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													
				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)	—

PKIB8464E



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													
				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	—	—	—
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)	—

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													
				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)	—

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	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	—	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

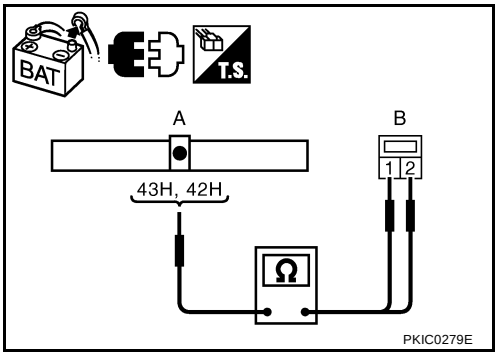
OK or NG

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



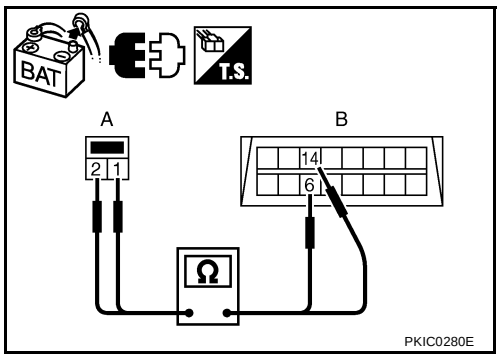
PKIC0279E

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

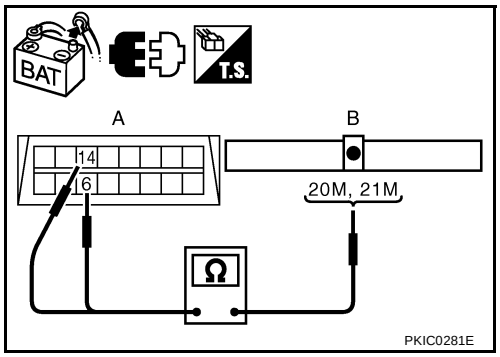
OK or NG

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

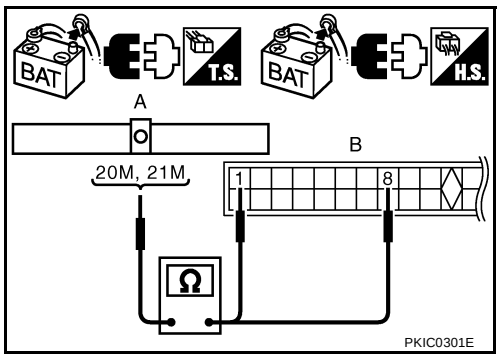
OK or NG

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.

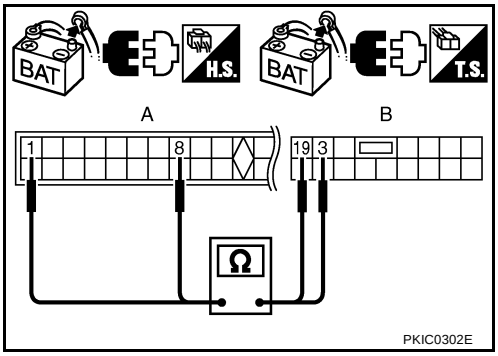
Inspection Between RAS Control Unit and Driver Seat Control Unit Circuit

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

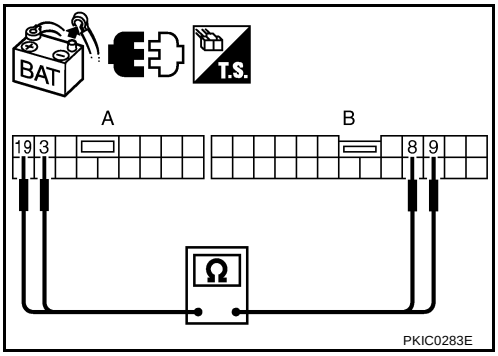
OK >> GO TO 2.

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

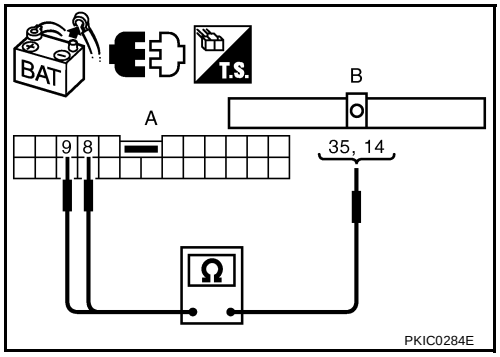
OK >> GO TO 3.

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).

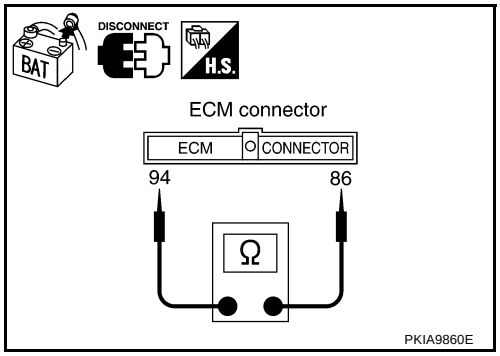
OK or NG

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

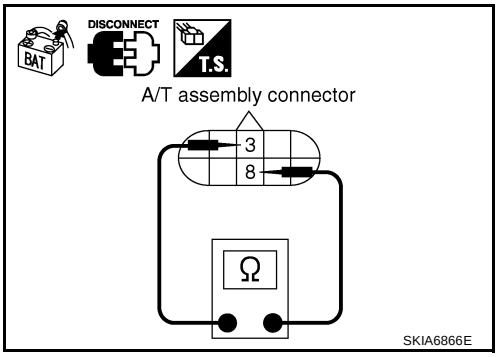
OK or NG

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.

AFS Control Unit Circuit Inspection

NKS00424

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

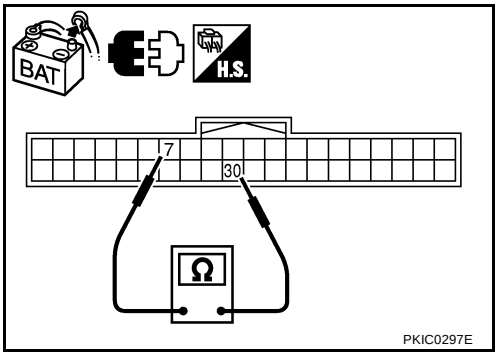
OK or NG

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

NKS00425

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).

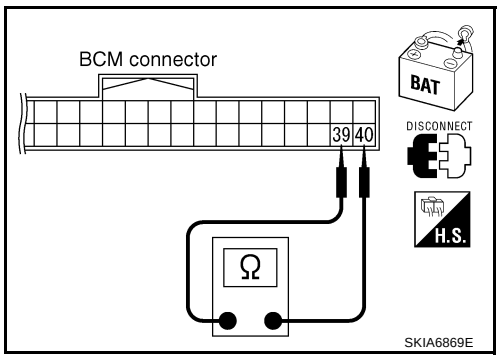
OK or NG

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

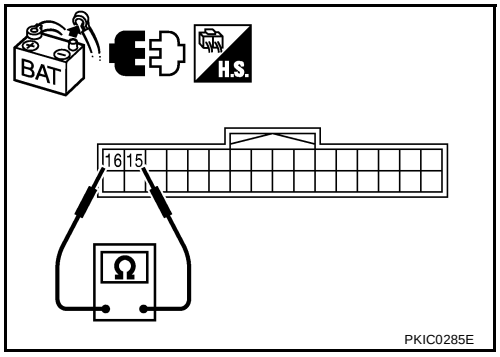
OK >> GO TO 2.

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

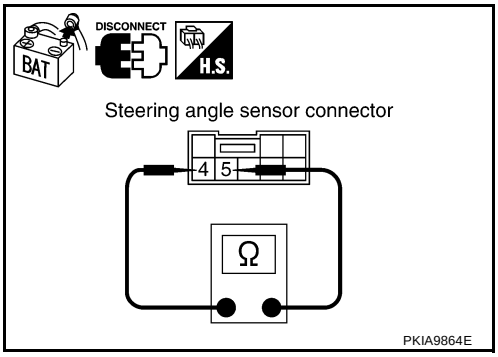
OK >> GO TO 2.

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.)
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

NKS00428

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).

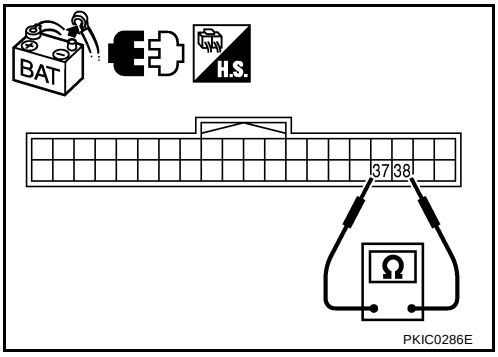
OK or NG

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

NKS00429

1. CHECK CONNECTOR

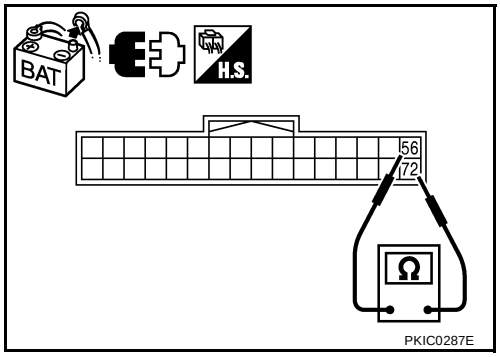
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS0042A

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).

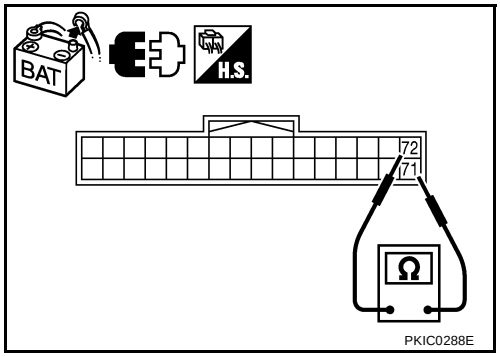
– NAVI control unit connector
– Harness connector M216
– Harness connector M53

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

NKS0042B

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).

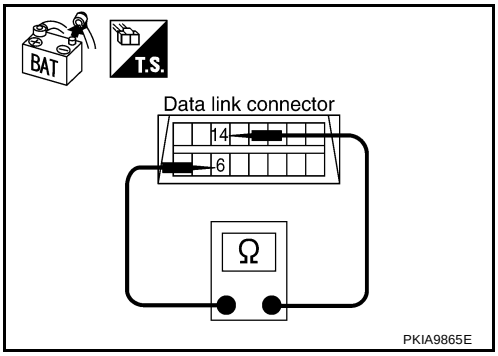
OK or NG

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

NKS0042C

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

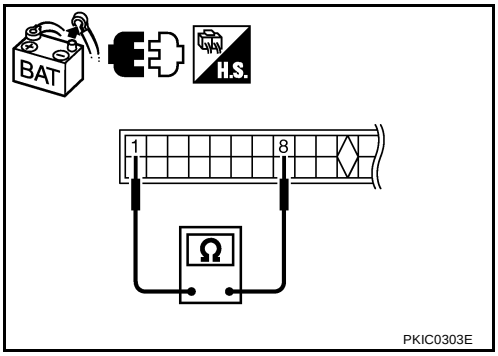
OK >> GO TO 2.

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

NKS0042D

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

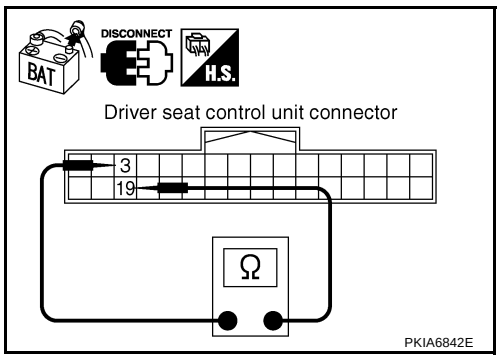
OK >> GO TO 2.

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

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).

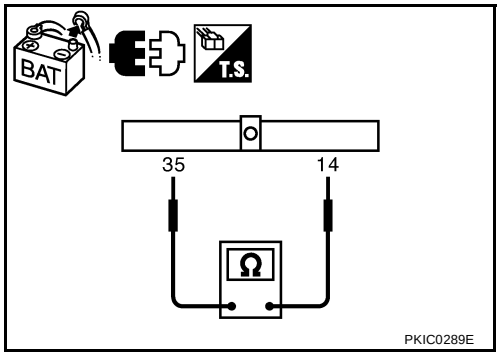
OK or NG

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

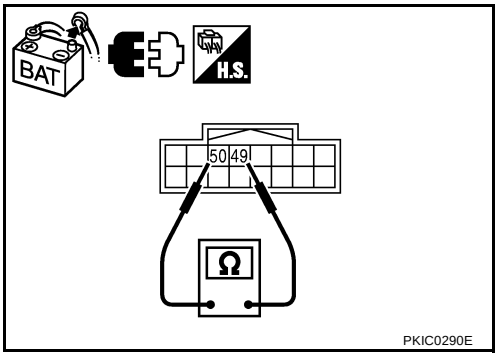
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

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.

CAN Communication Circuit Inspection

NKS0042G

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

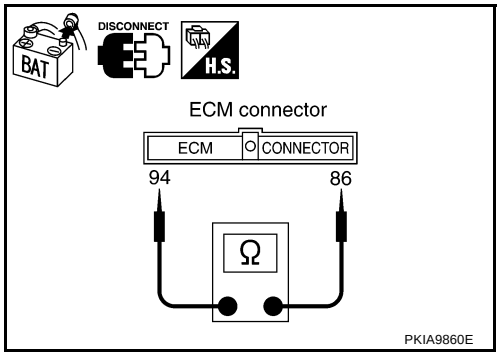
OK >> GO TO 2.
NG >> Repair terminal or connector.

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

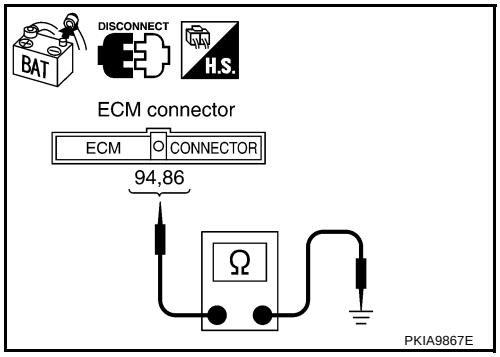
OK >> GO TO 3.

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		Continuity
M71	94	Ground	No
	86		No



OK or NG

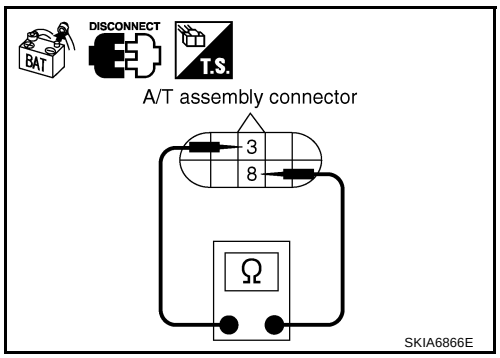
OK >> GO TO 4.

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 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

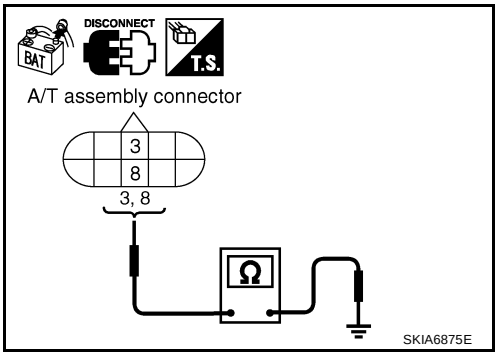
OK >> GO TO 5.

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



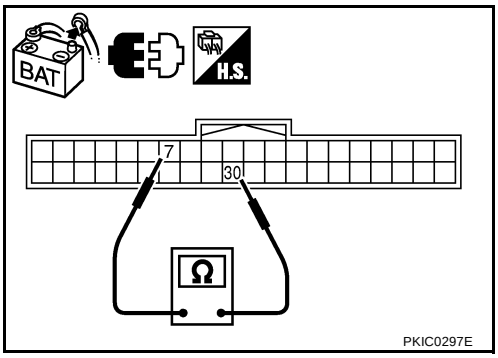
OK or NG

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

6. CHECK HARNESS FOR SHORT CIRCUIT

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

AFS control unit connector	Terminal		Continuity
F110	30	7	No



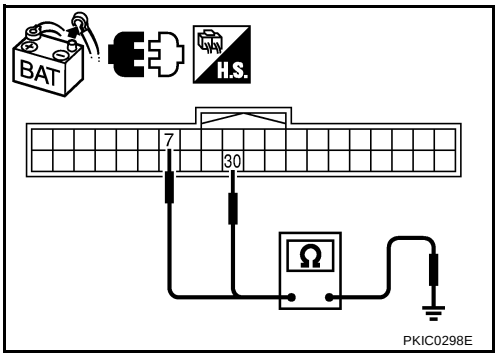
OK or NG

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



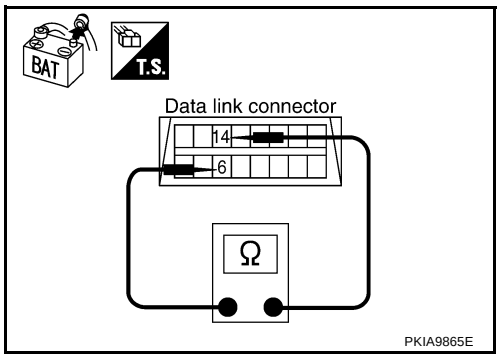
OK or NG

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

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

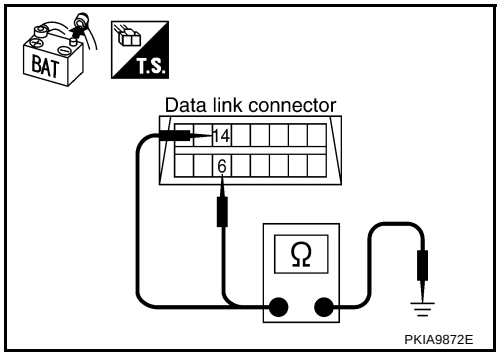
OK >> GO TO 9.

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

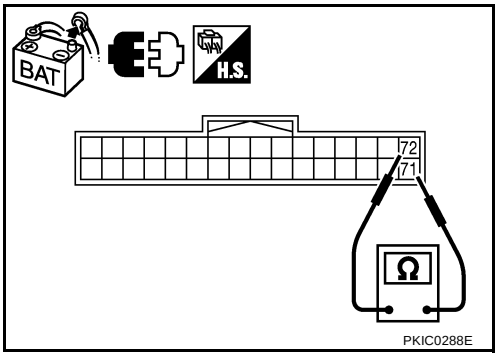
OK >> GO TO 10.

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

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



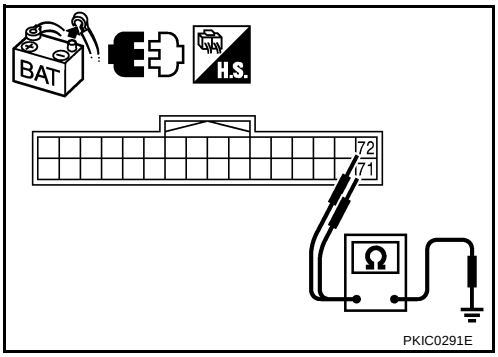
OK or NG

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

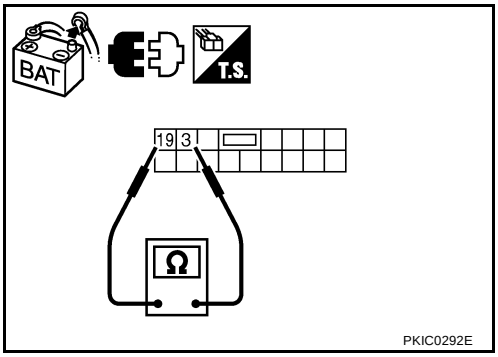
OK >> GO TO 12.
NG >> Repair harness between NAVI control unit and harness connector M216.

12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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



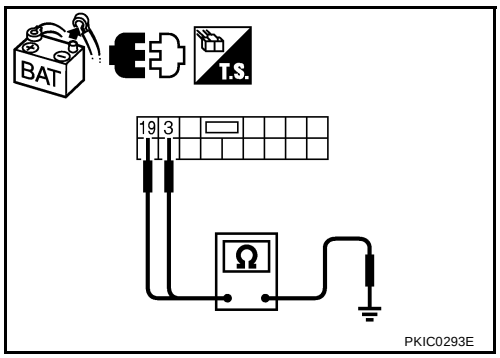
OK or NG

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

13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal		Continuity
B15	3	Ground	No
	19		No



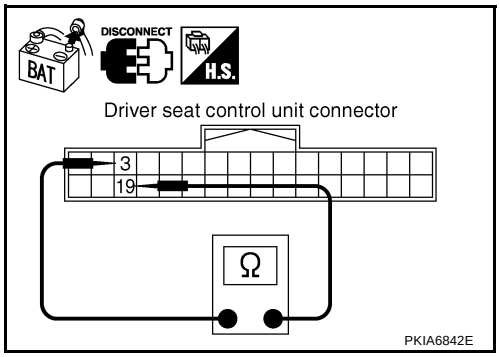
OK or NG

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



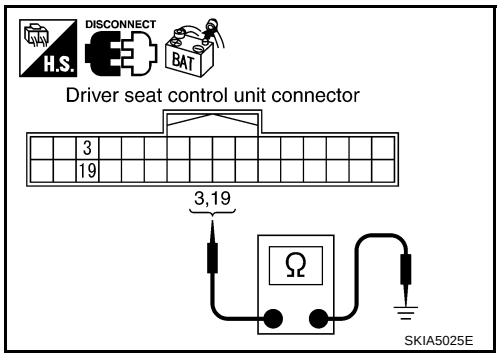
OK or NG

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



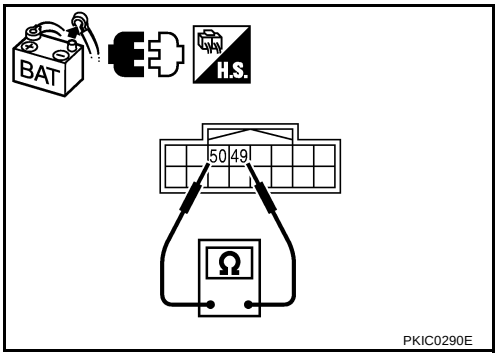
OK or NG

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

16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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.

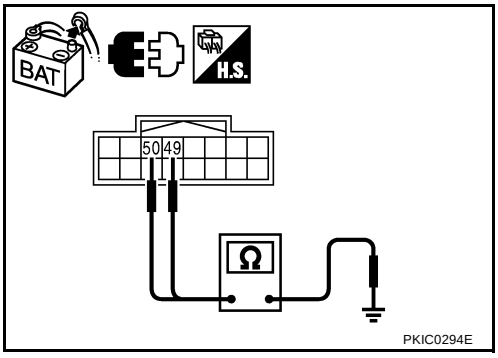
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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)

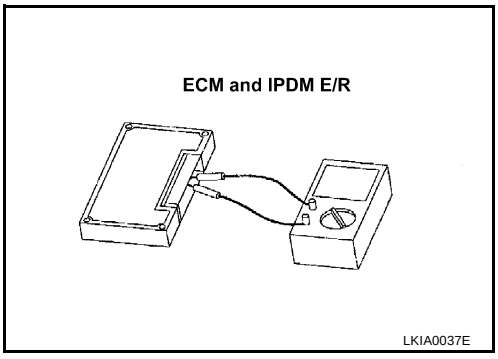
18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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.

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”" .

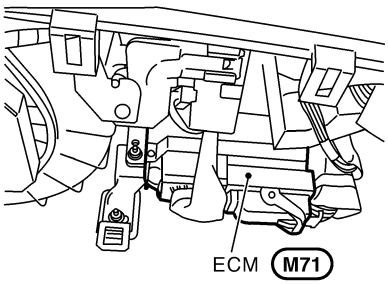
CAN SYSTEM (TYPE 8)

PFP:23710

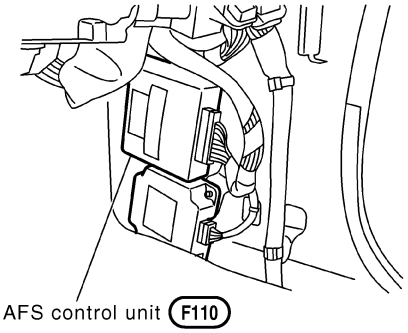
Component Parts and Harness Connector Location

NKS0042I

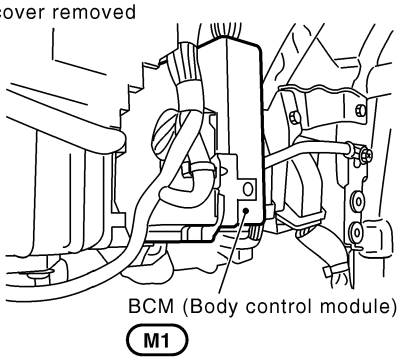
Passenger side view with instrument lower cover removed



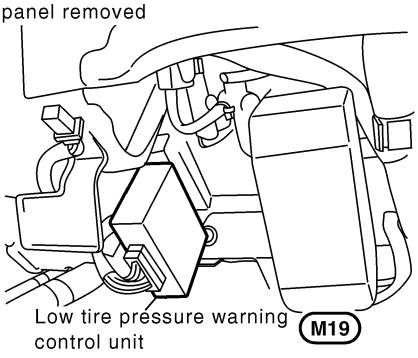
Behind dash side lower RH finisher



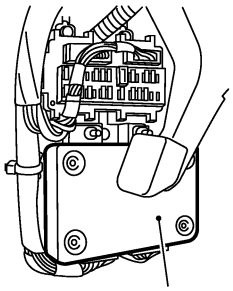
Passenger side view with instrument lower cover removed



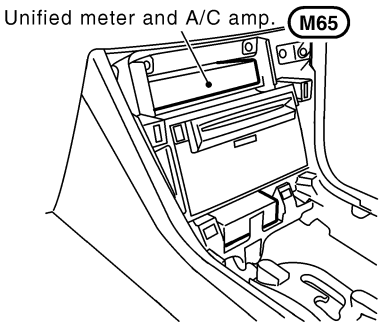
Driver side view with instrument lower panel removed



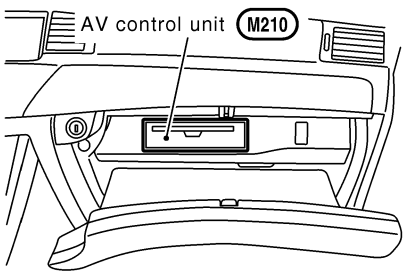
Behind dash side lower LH finisher



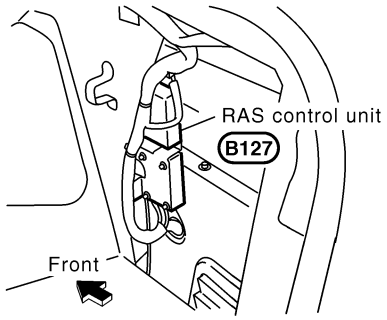
View with cluster lid C removed



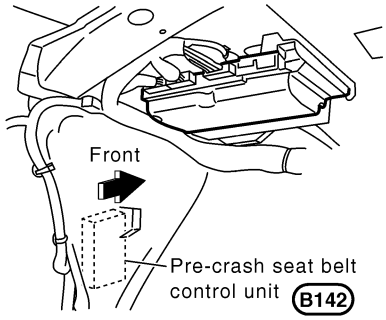
Inside of glove box



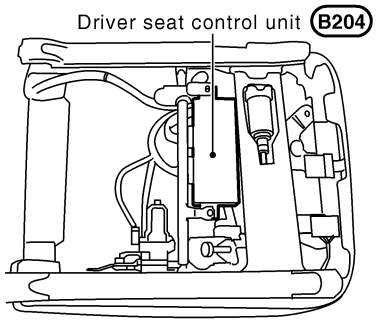
View with trunk side RH finisher removed



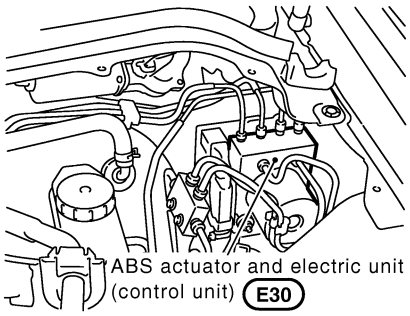
View with trunk side LH finisher and front finisher removed



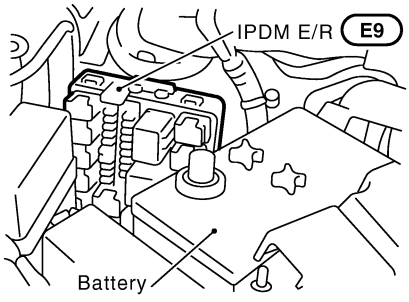
Under driver's seat



Rear left of engine room



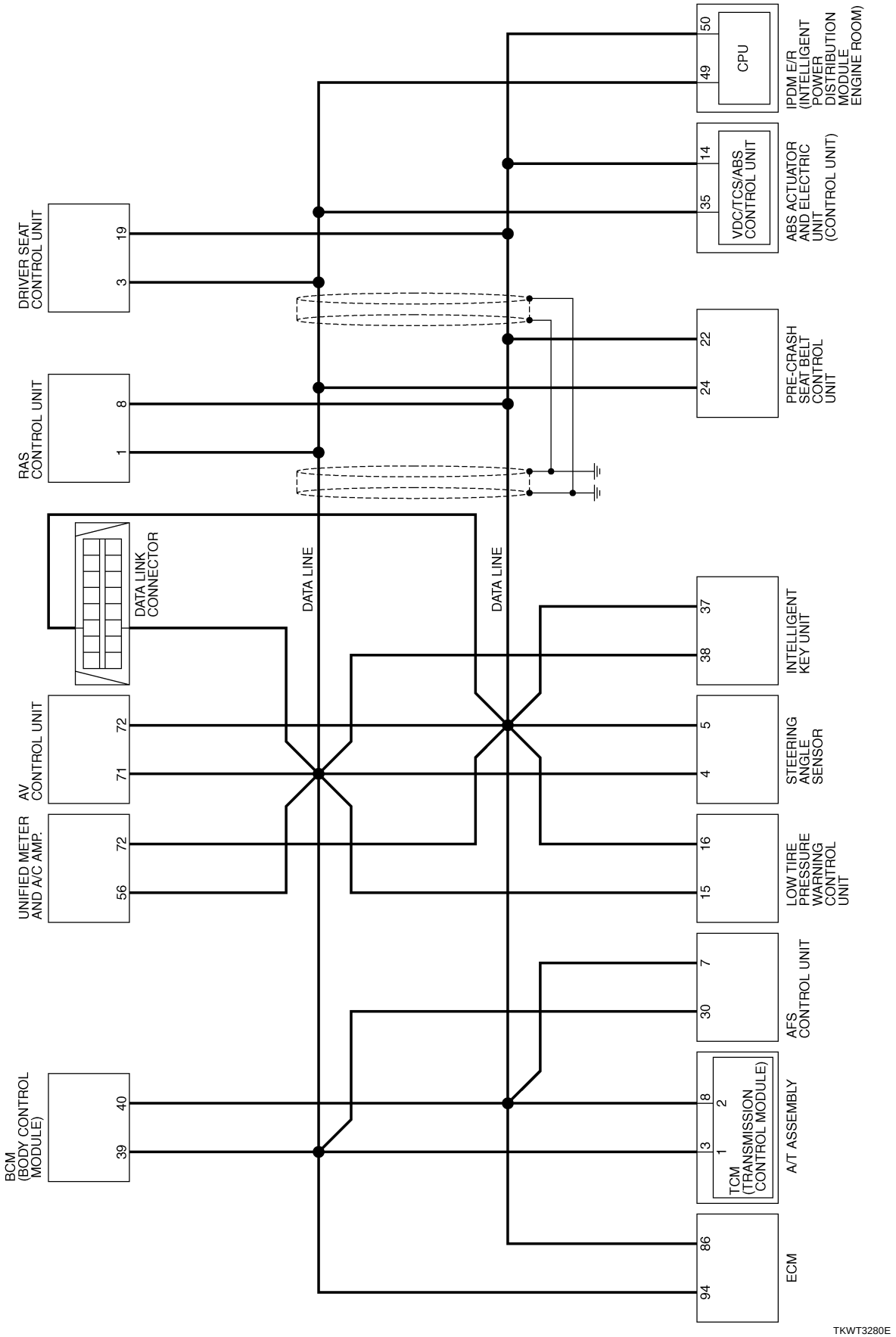
View with cowl top cover removed



PKIC0606E

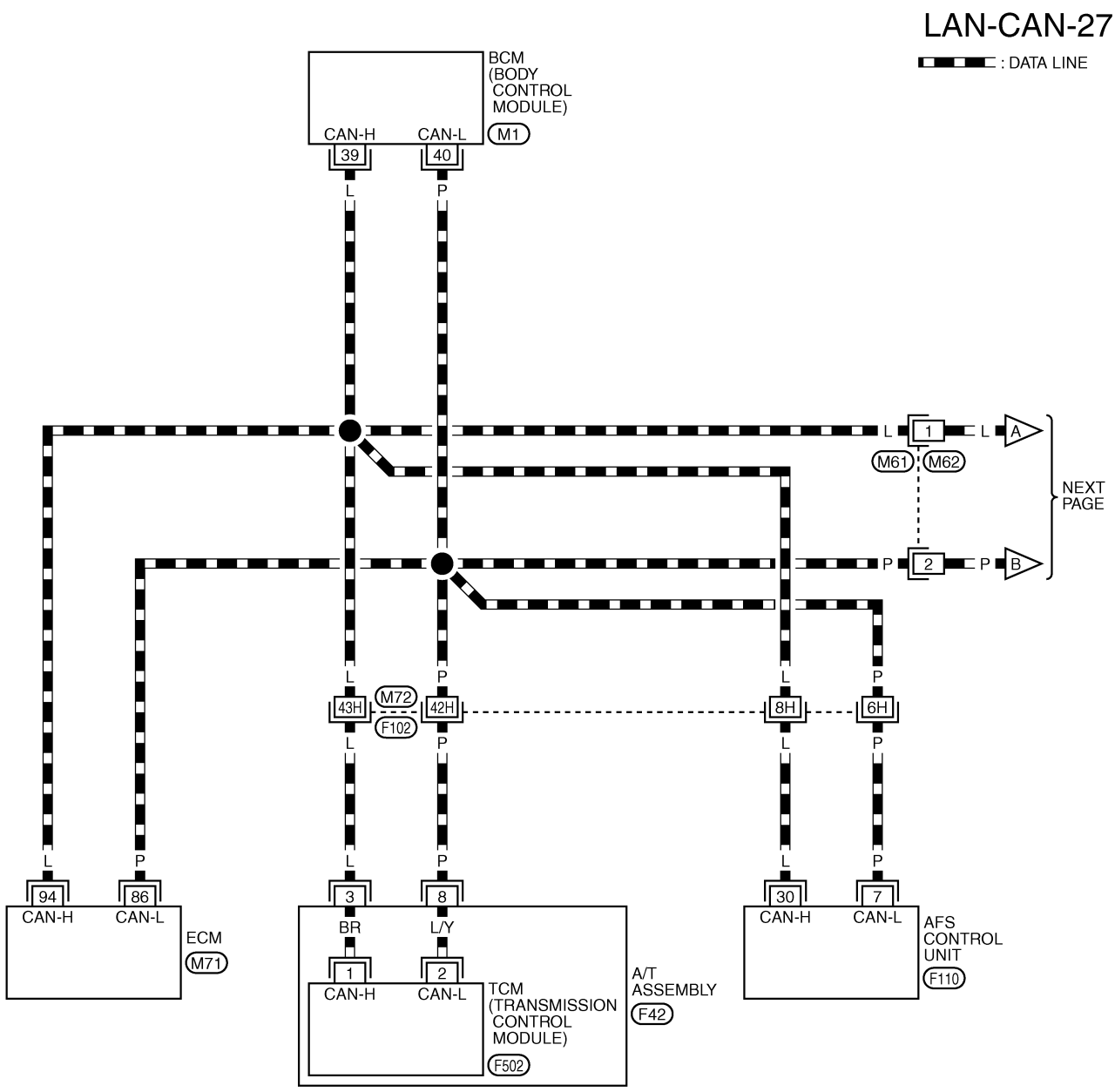
Schematic

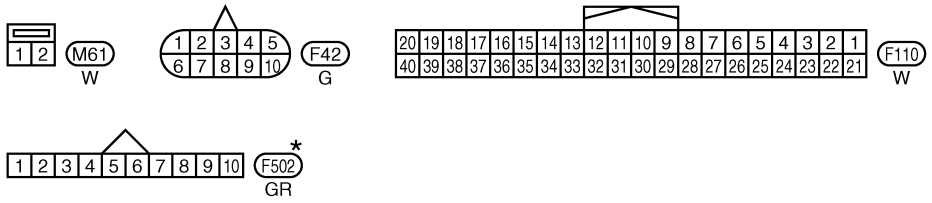
NKS0042J



Wiring Diagram — CAN —

NKS0042K





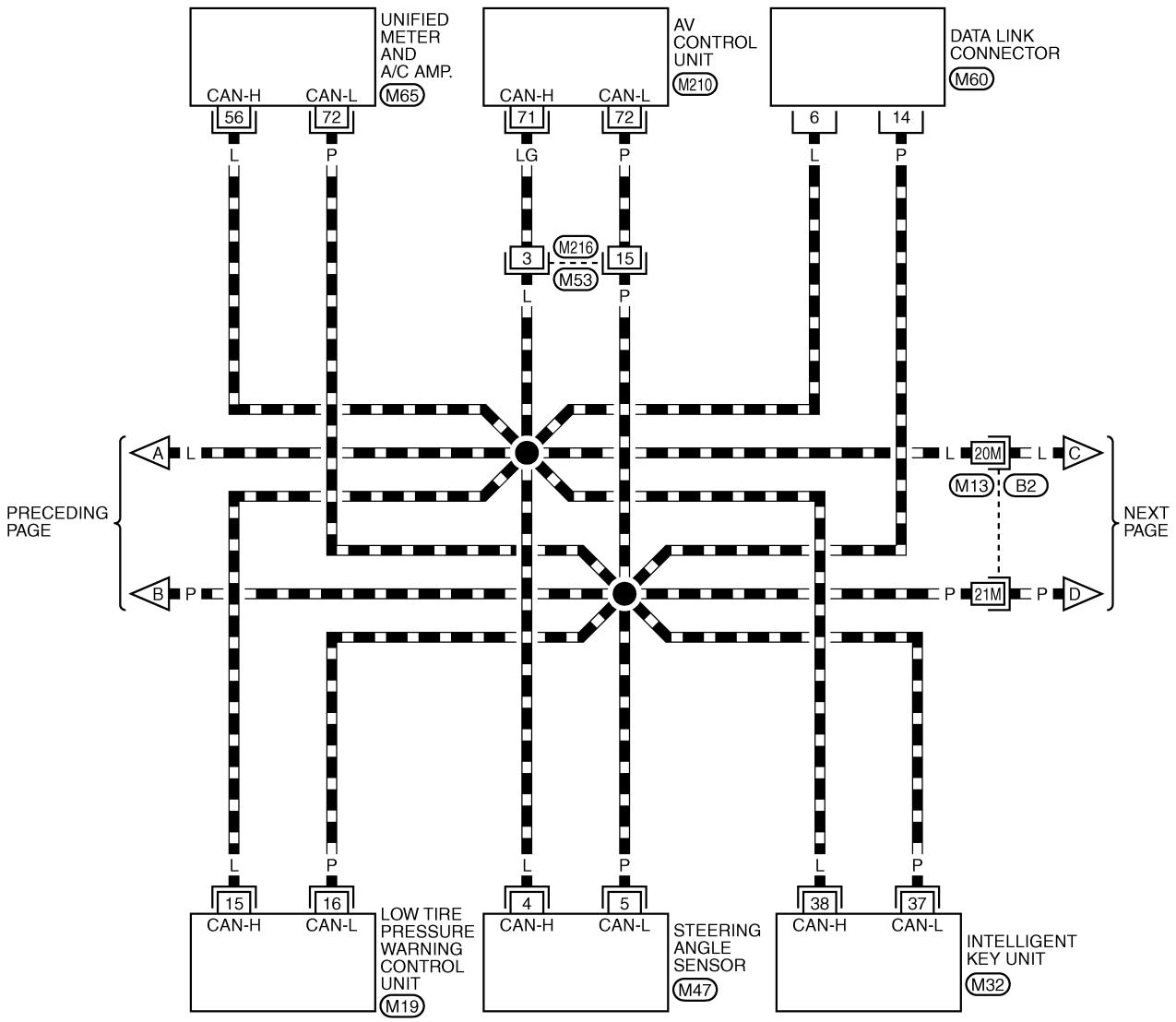
REFER TO THE FOLLOWING.
F102 -SUPER MULTIPLE JUNCTION (SMJ)
M1 , M71 -ELECTRICAL UNITS

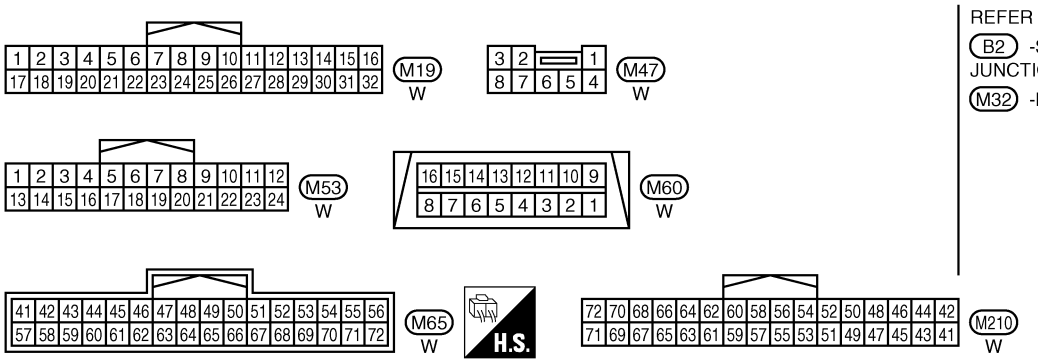
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3281E

LAN-CAN-28

: DATA LINE





REFER TO THE FOLLOWING.

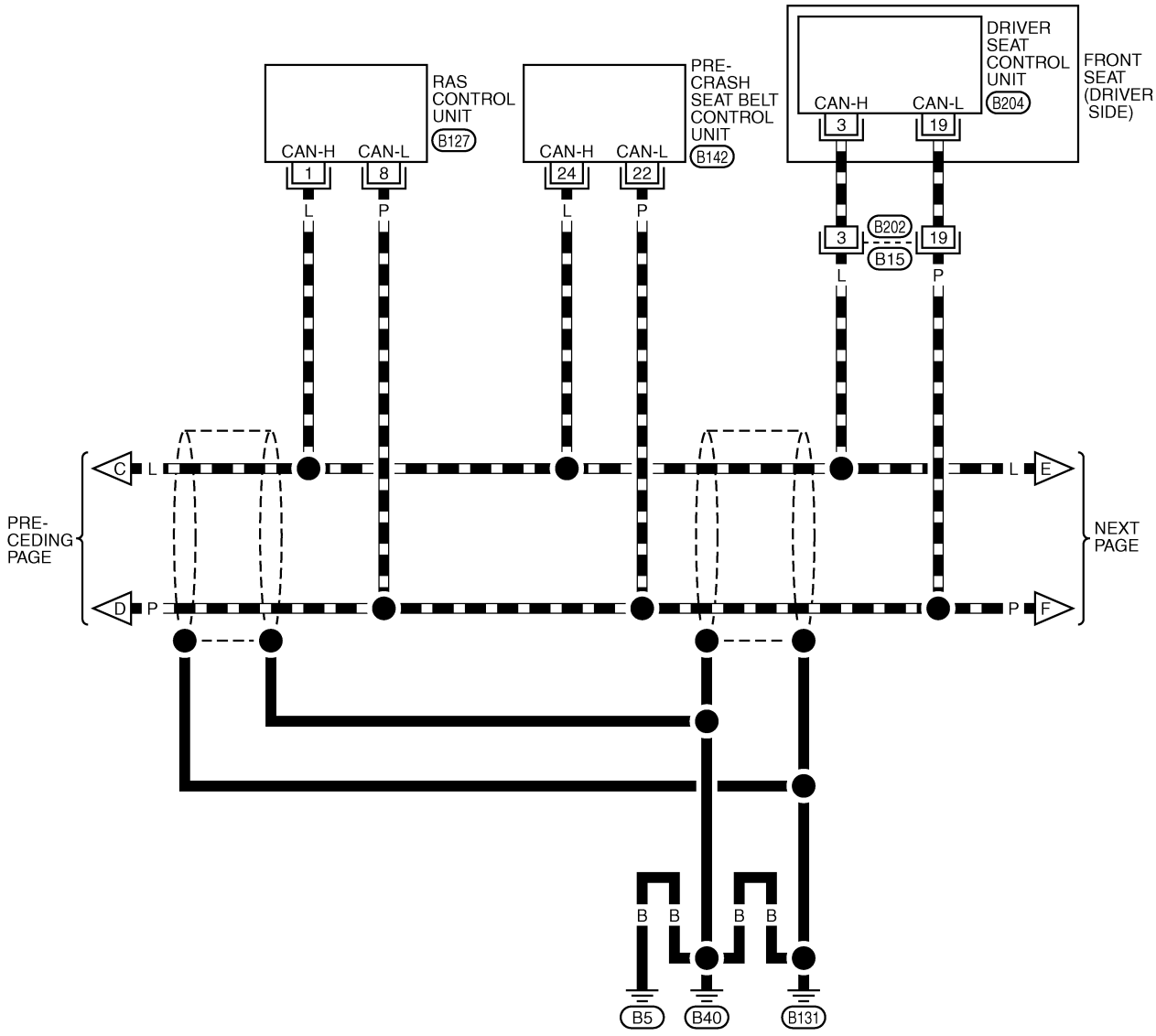
B2 -SUPER MULTIPLE JUNCTION (SMJ)

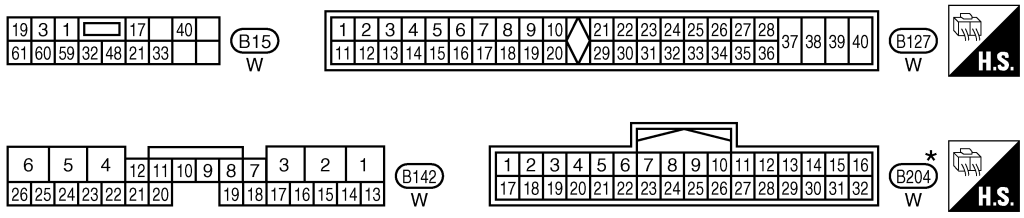
M32 -ELECTRICAL UNITS

TKWT3282E

LAN-CAN-29

: DATA LINE



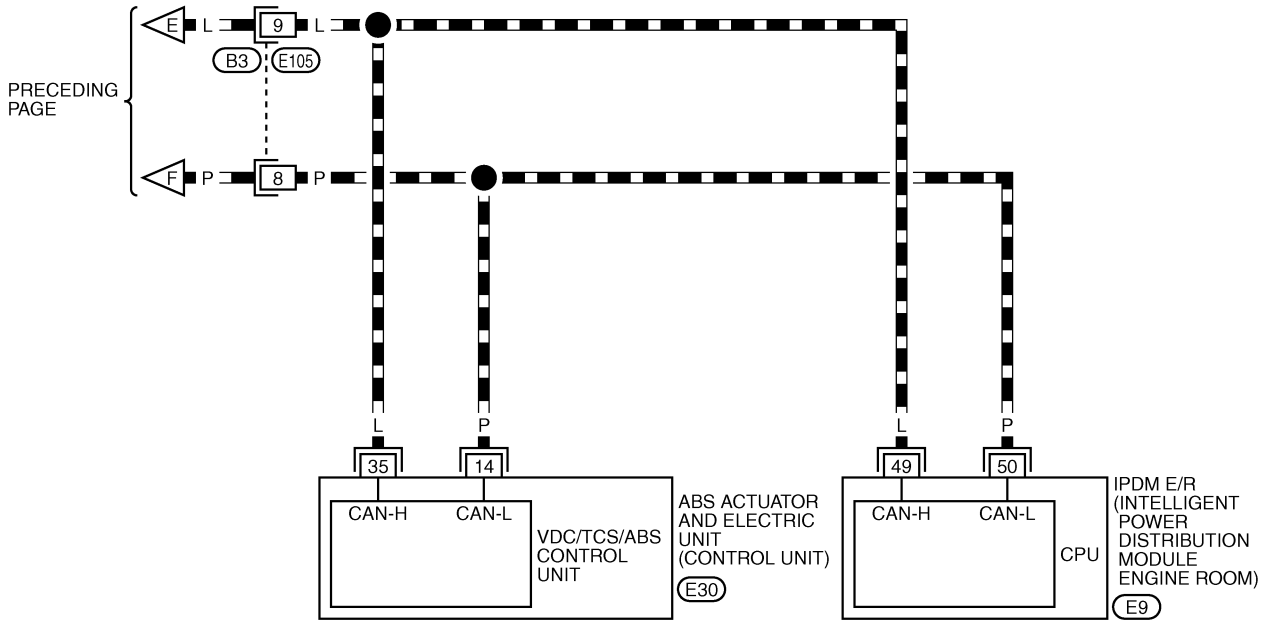


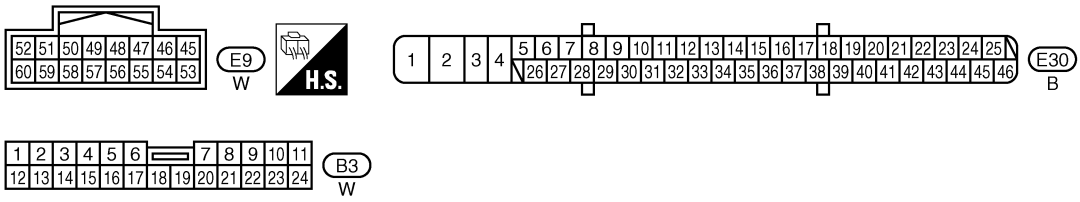
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3283E

LAN-CAN-30

: DATA LINE





TKWT3284E

Check Sheet

NKS0042L

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	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)	—

Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIB8468E

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			

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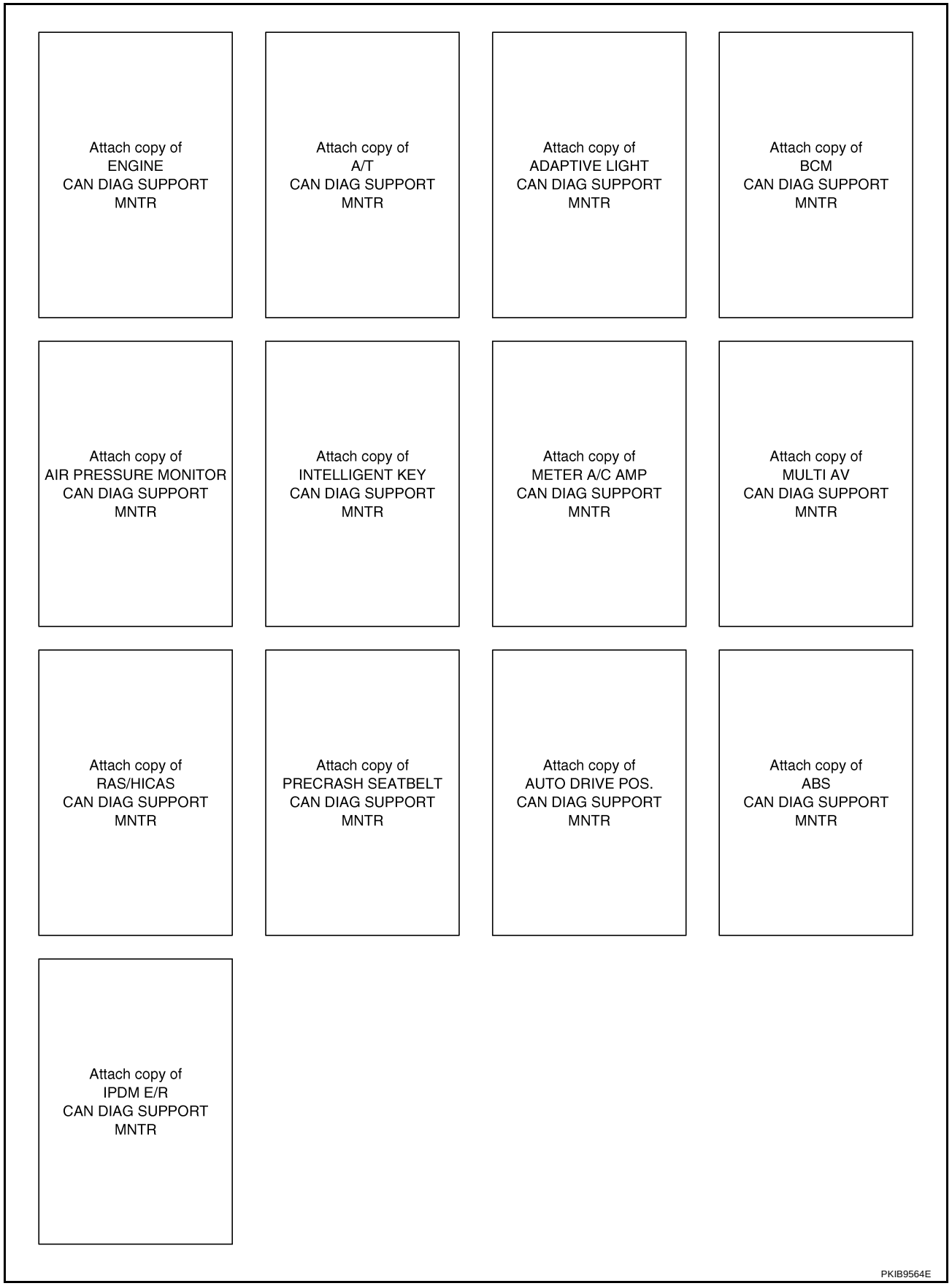
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CAN DIAG SUPPORT
MNTR
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A/T
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Attach copy of
ADAPTIVE LIGHT
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IPDM E/R
CAN DIAG SUPPORT
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CHECK 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													
				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) ✓	—

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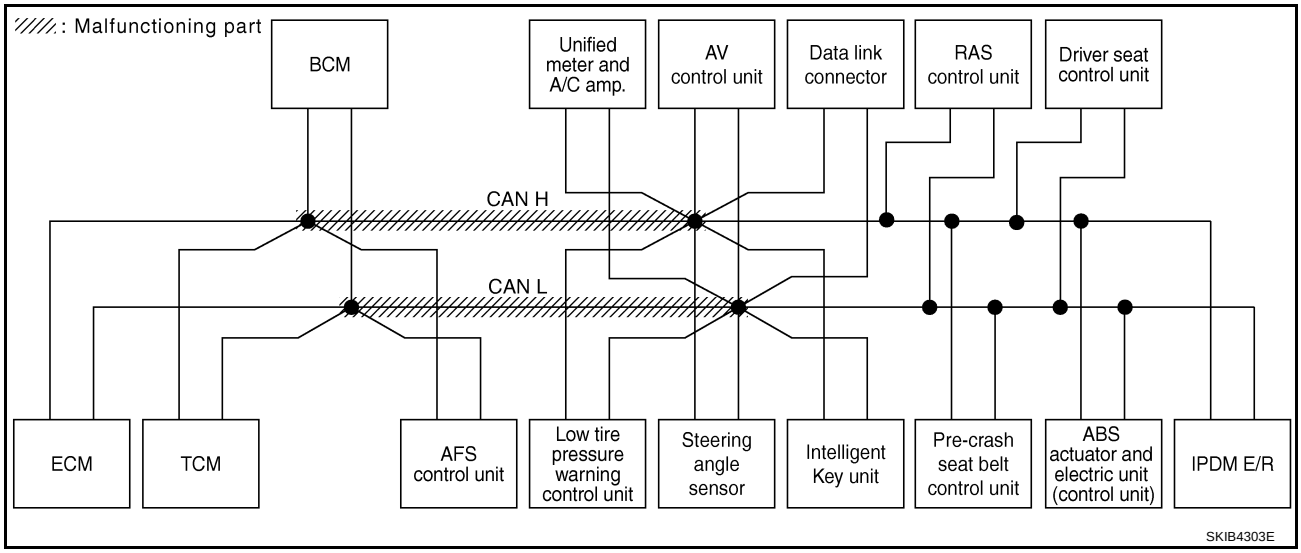

Case 2

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: 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	SELF-DIAG RESULTS	
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)	—

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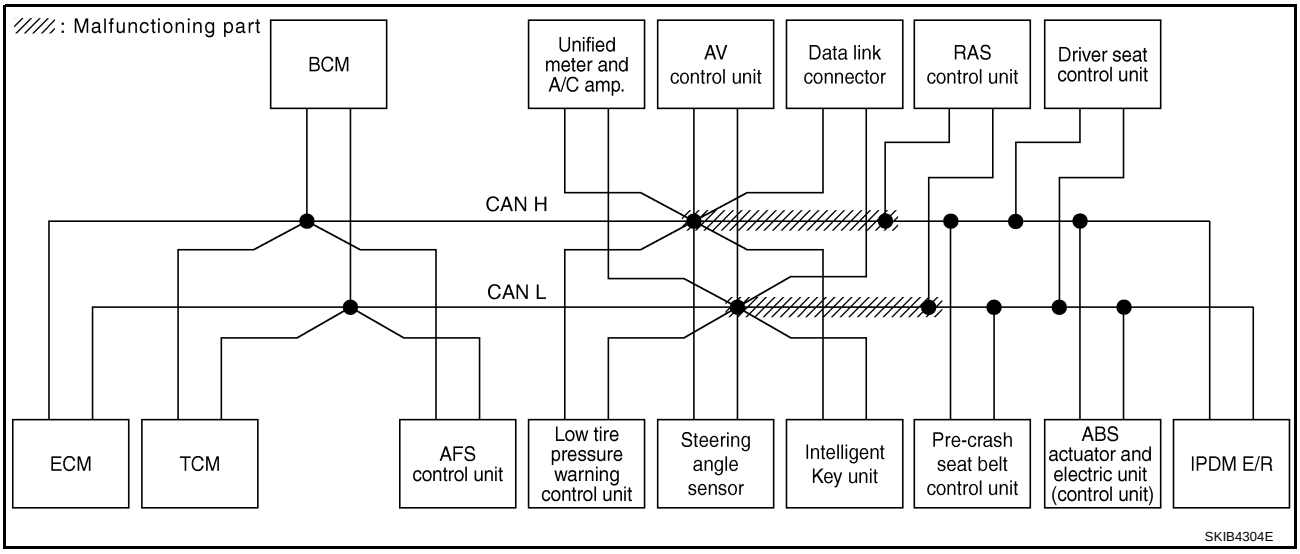

Case 3

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													
				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) ✓	—

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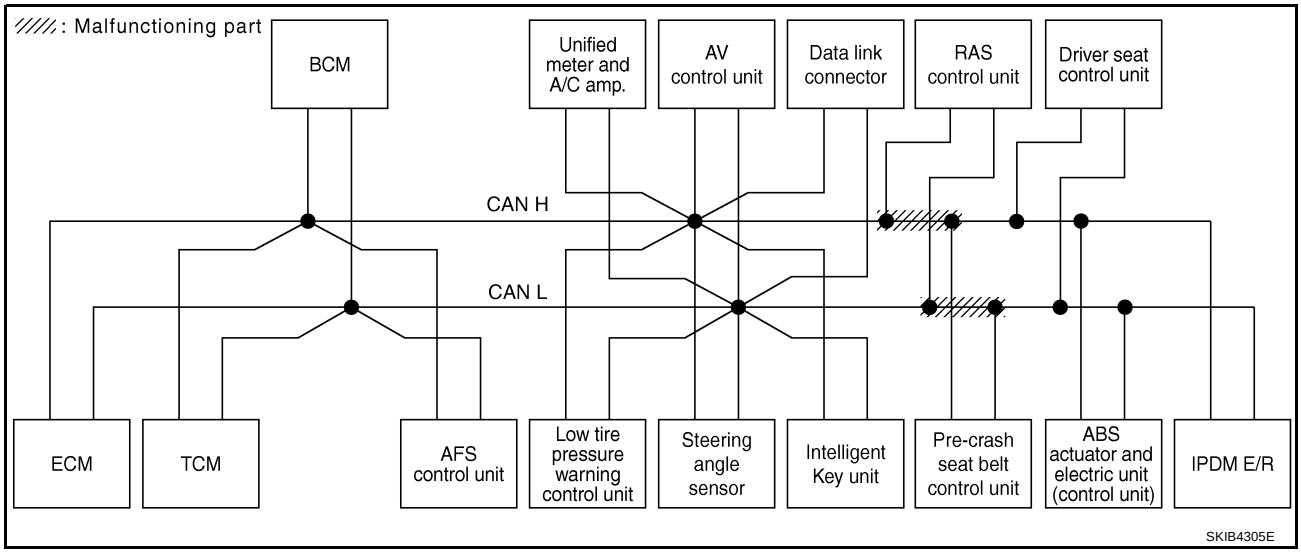
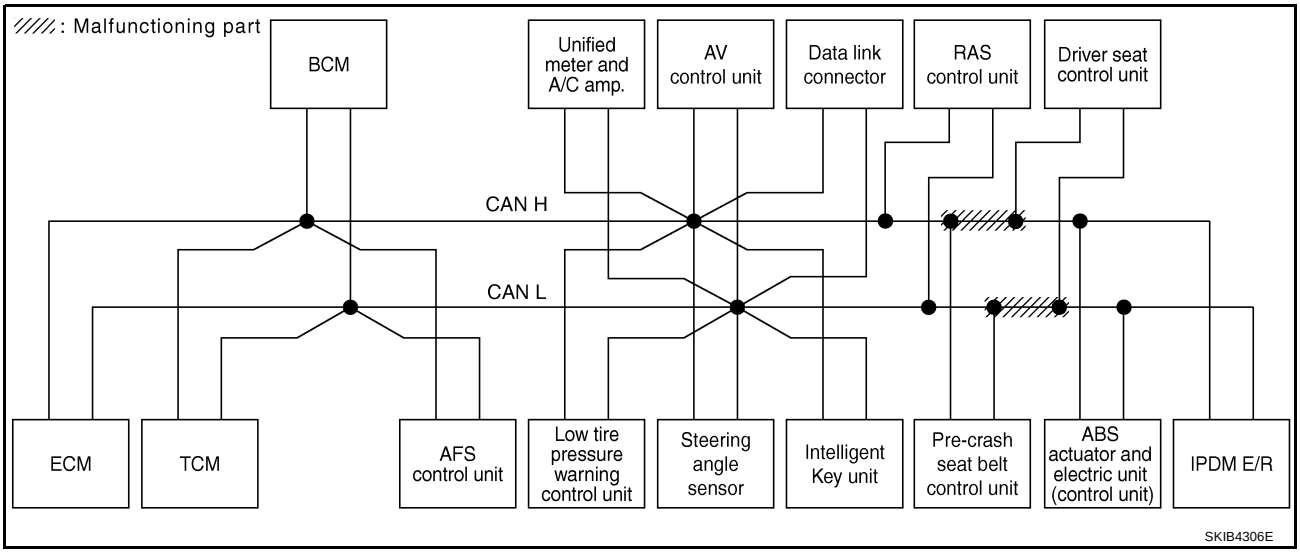


Case 4

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													
				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) ✓	—

PKIB8472E

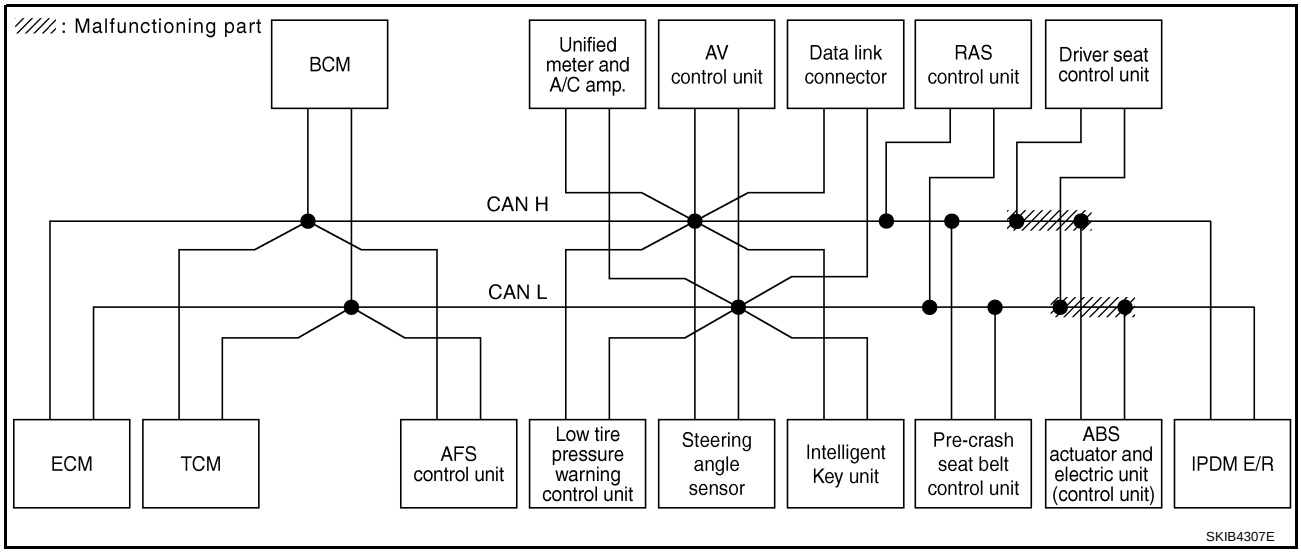


Case 5

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													
				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)	—

PKIB8473E

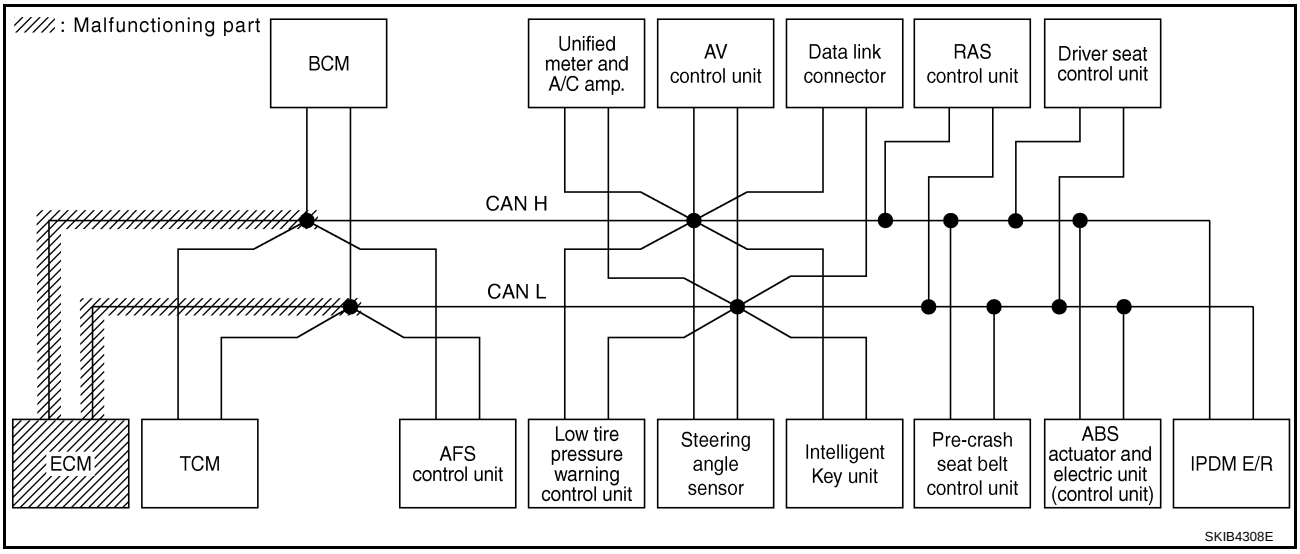


Case 6

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		
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)	—

PKIB8474E



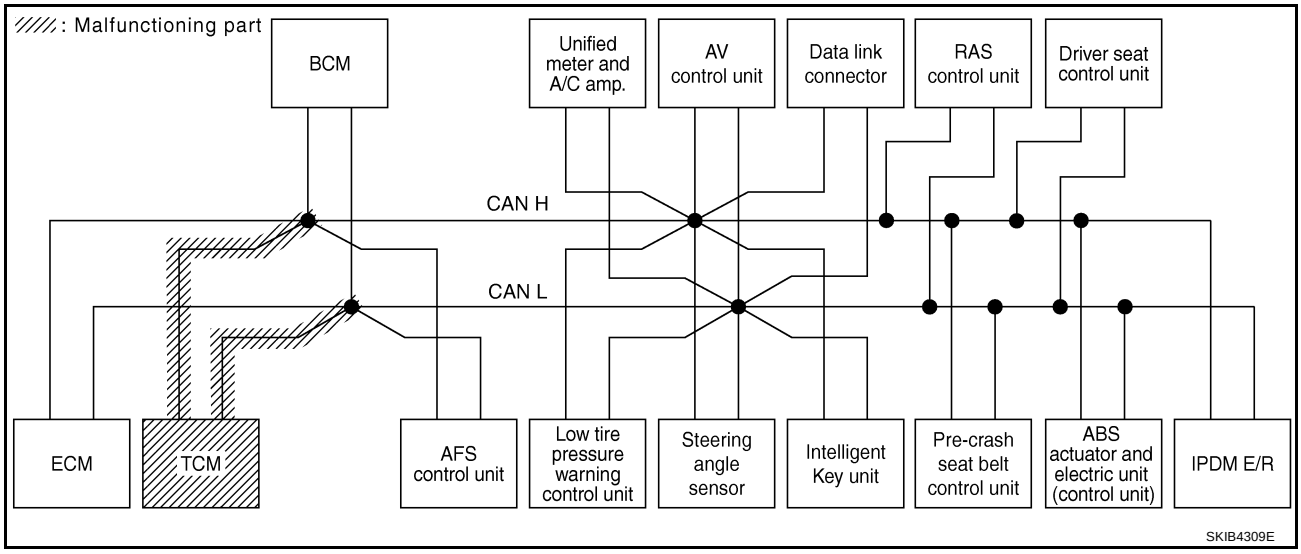
SKIB4308E

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 (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)	—

PKIB8475E

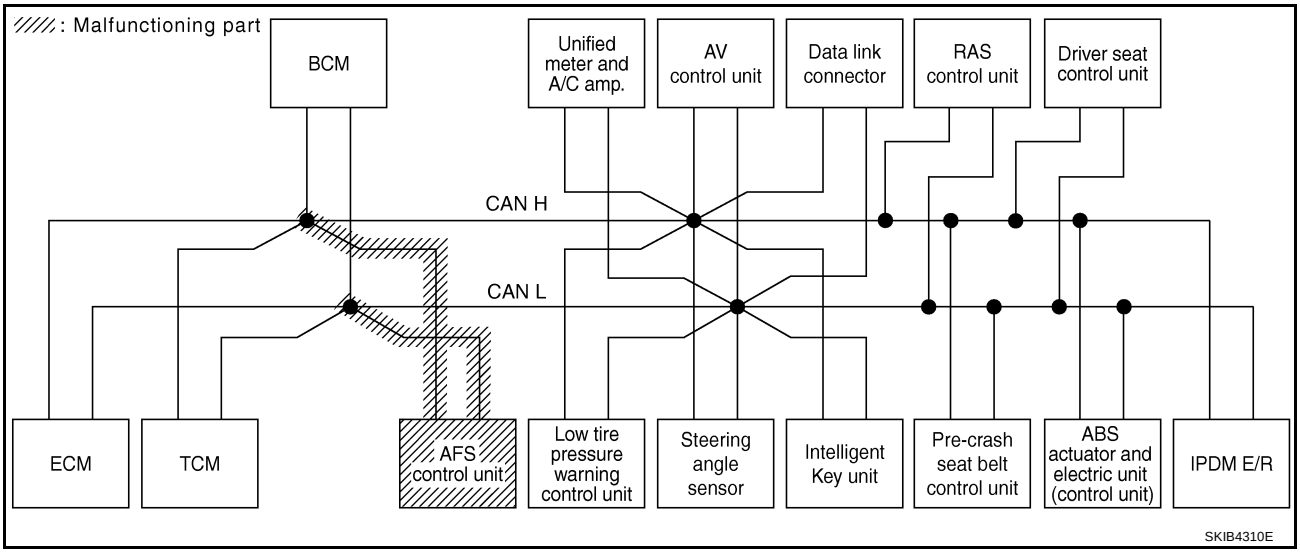


Case 8

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



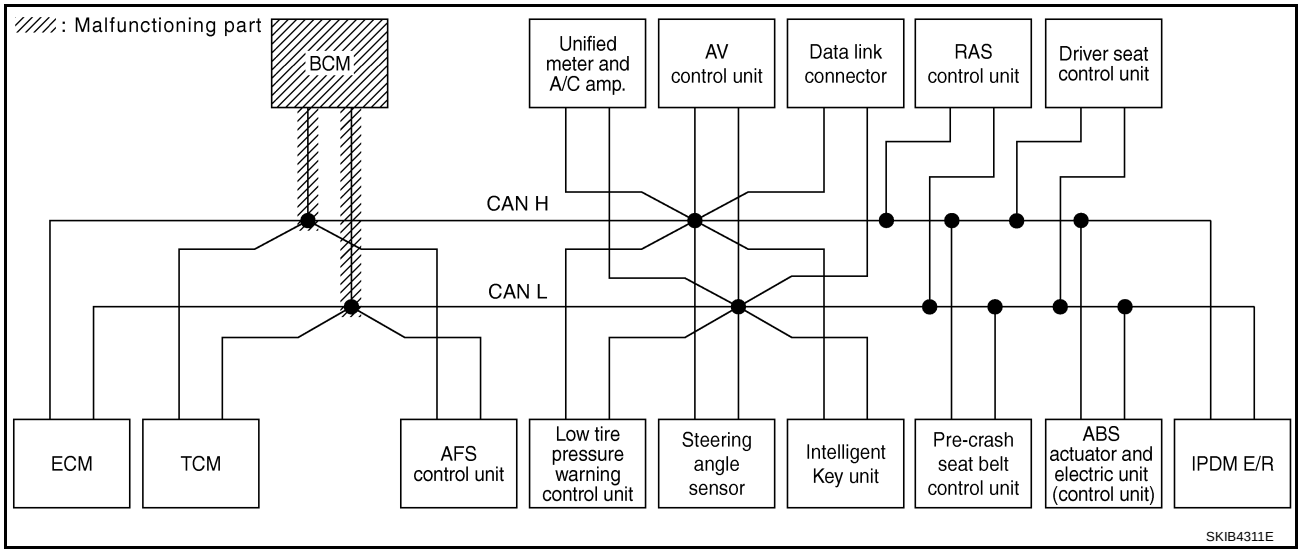
SKIB4310E

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	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

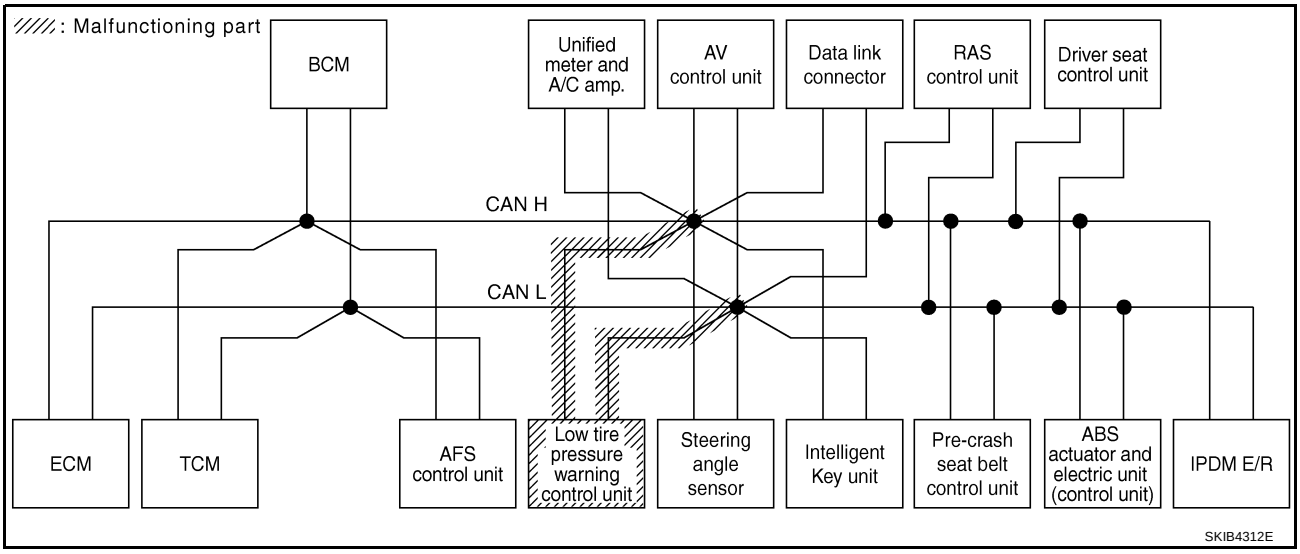


Case 10

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													
				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)	—

PKIB8478E



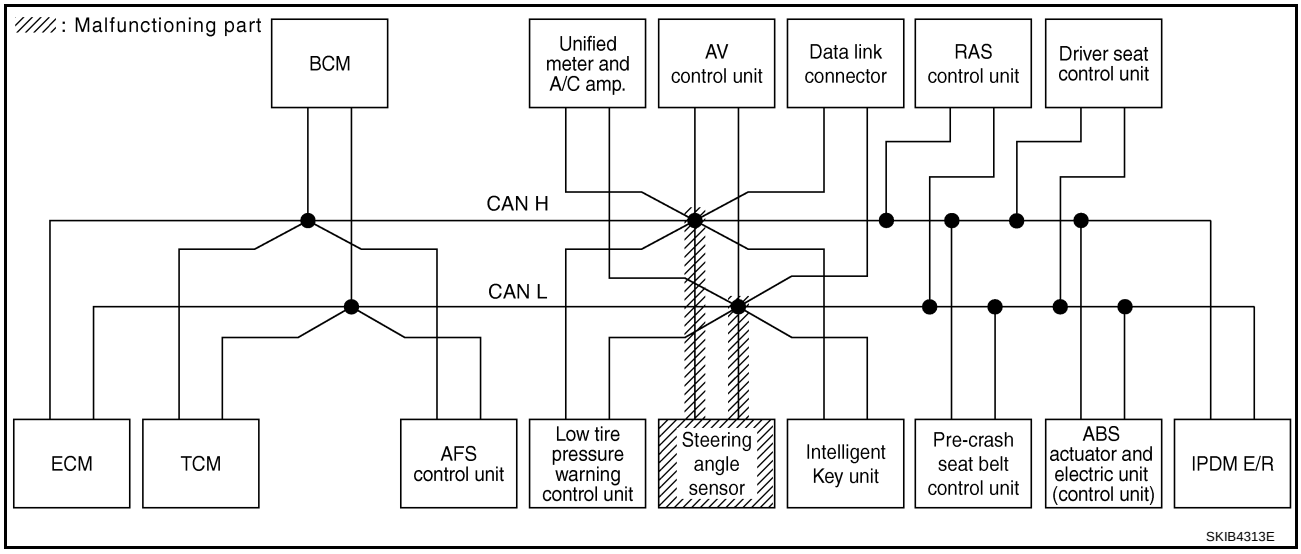
SKIB4312E

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



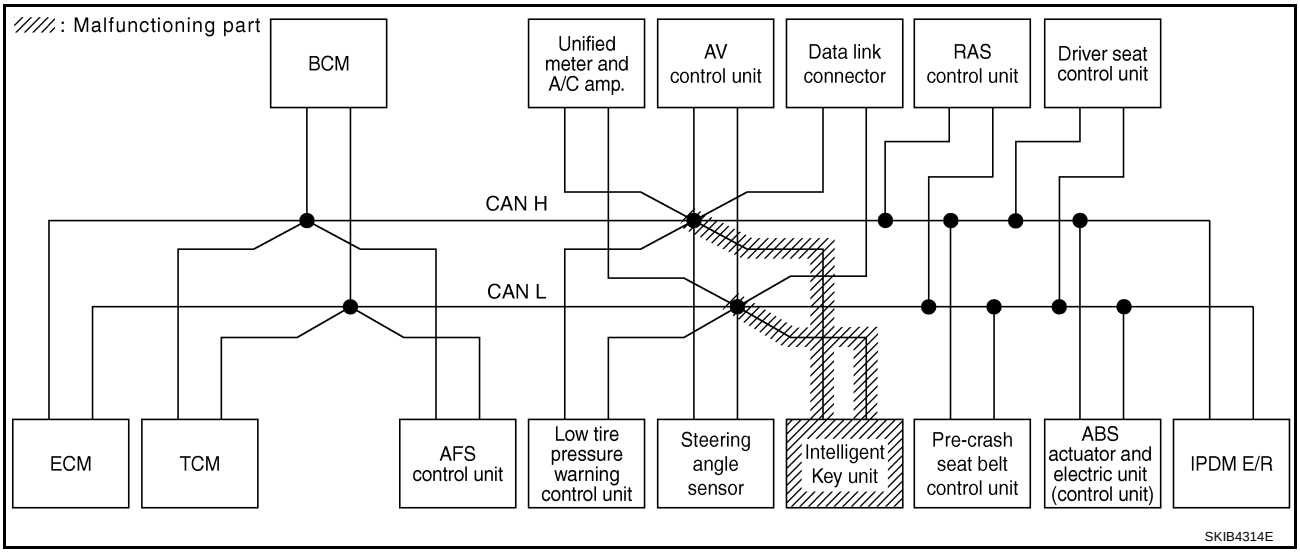
SKIB4313E

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

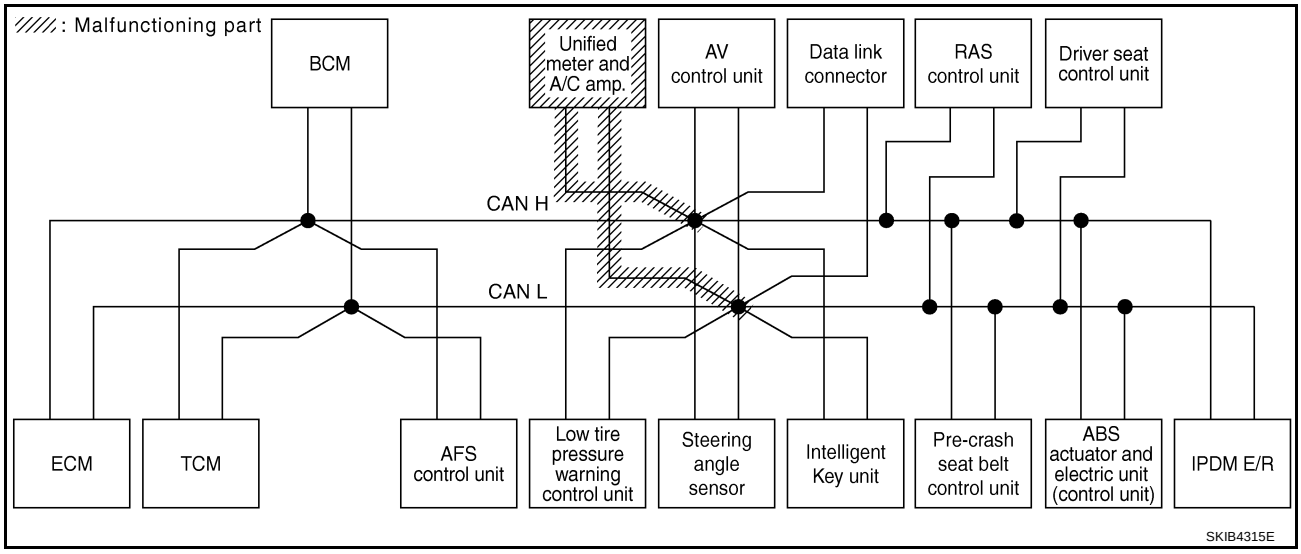


Case 13

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													
				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)	—

PKIB8481E



Case 14

Check AV control unit circuit. Refer to LAN-405, "AV 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)	—

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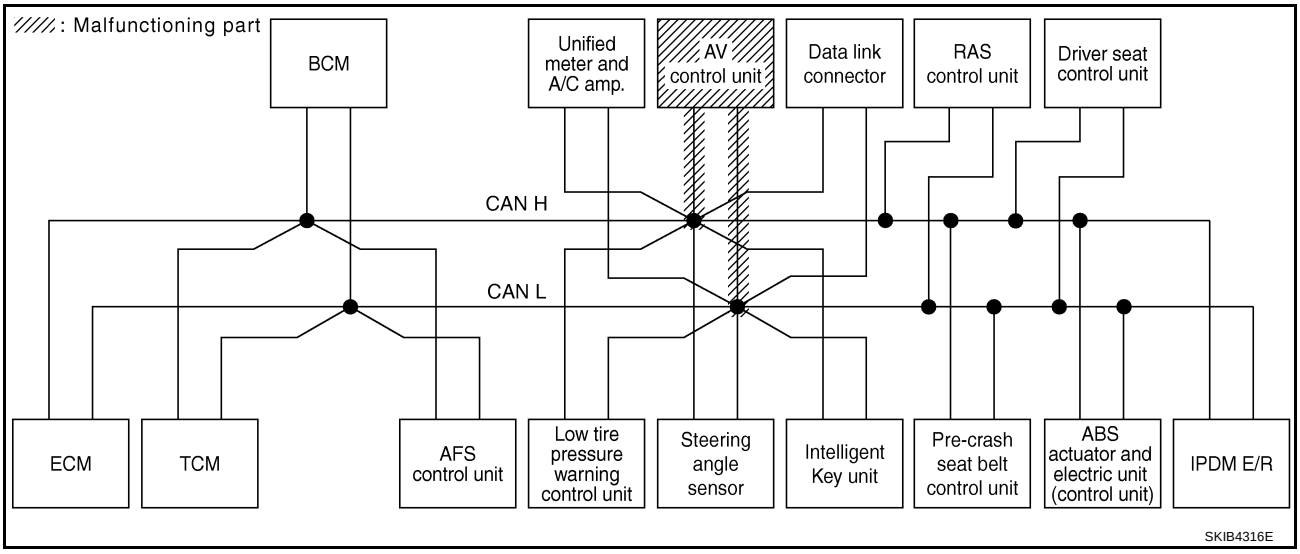

Case 15

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	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)	—

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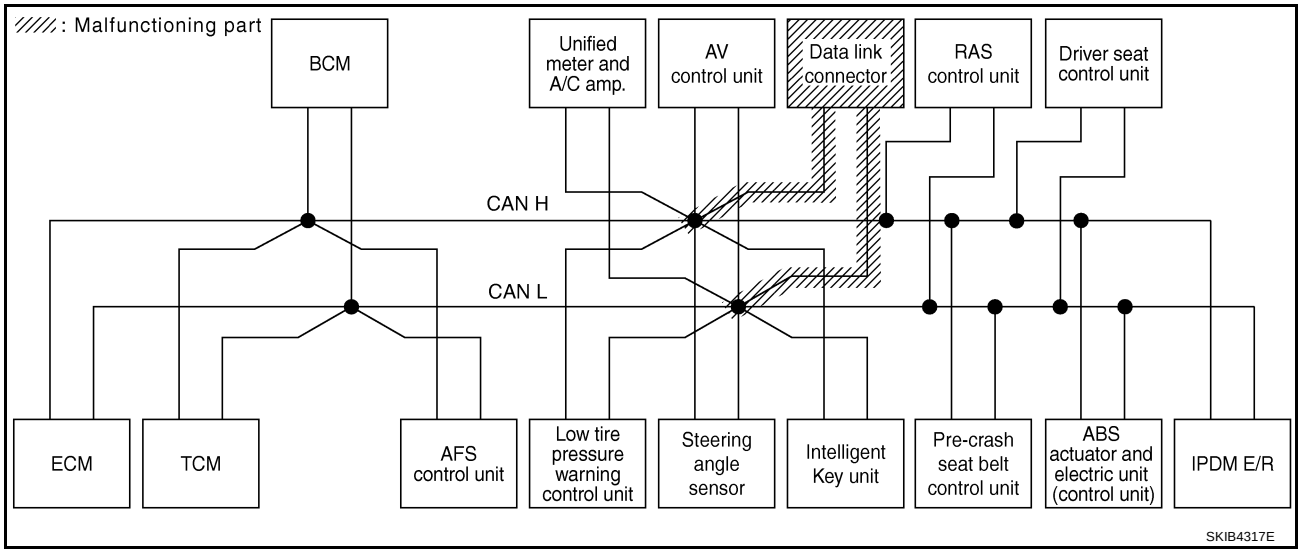

Case 16

Check RAS control unit circuit. Refer to LAN-406, "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)	—

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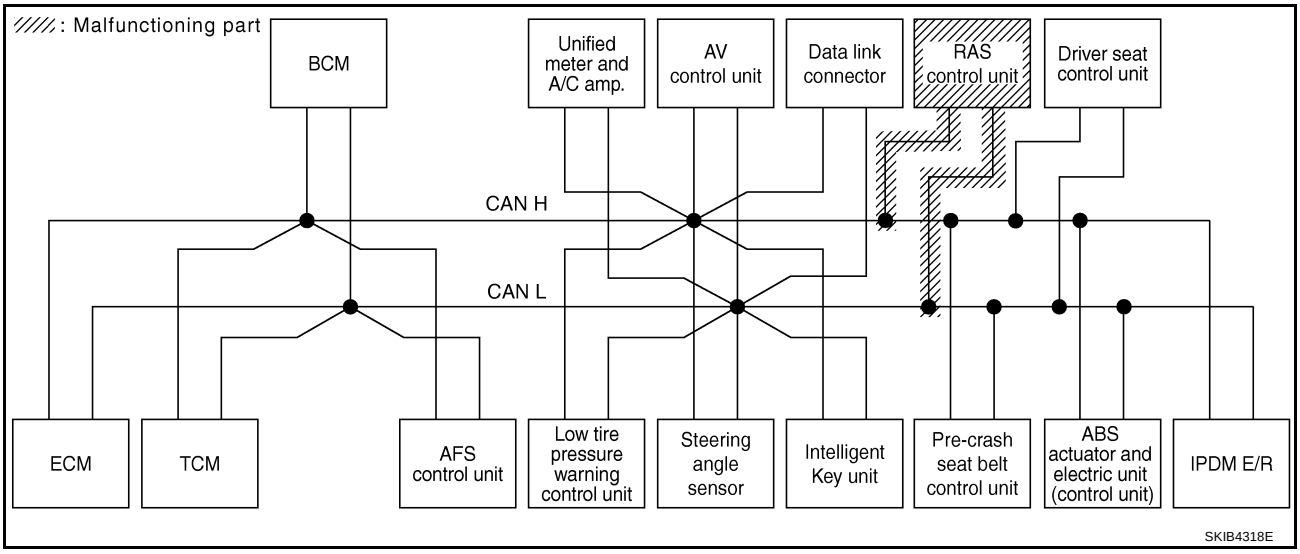

Case 17

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													
				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)	—

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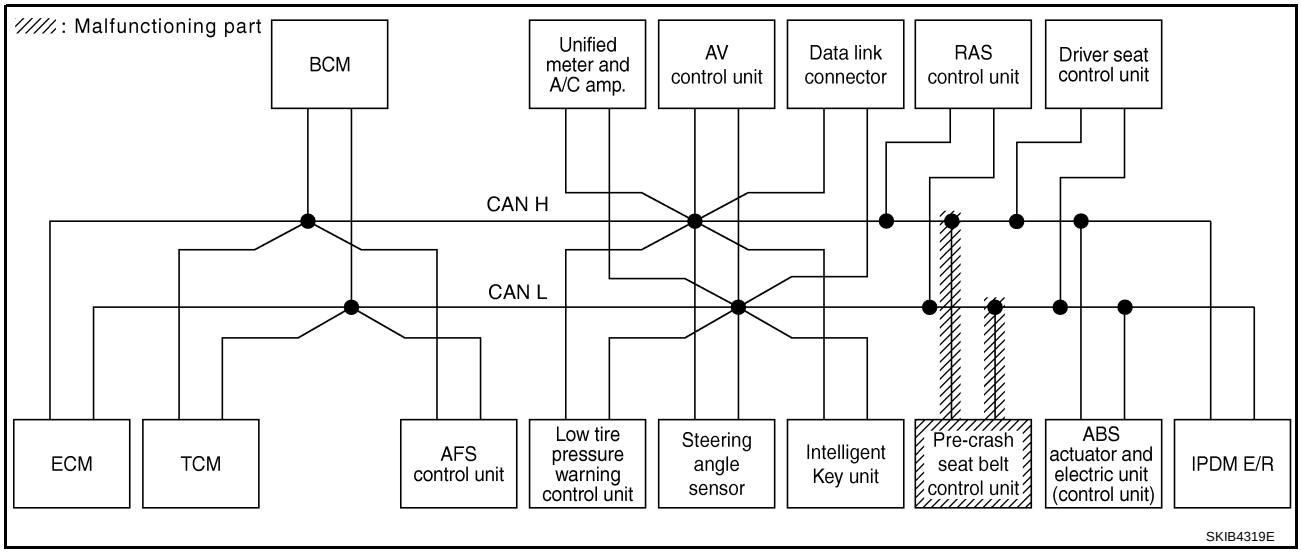


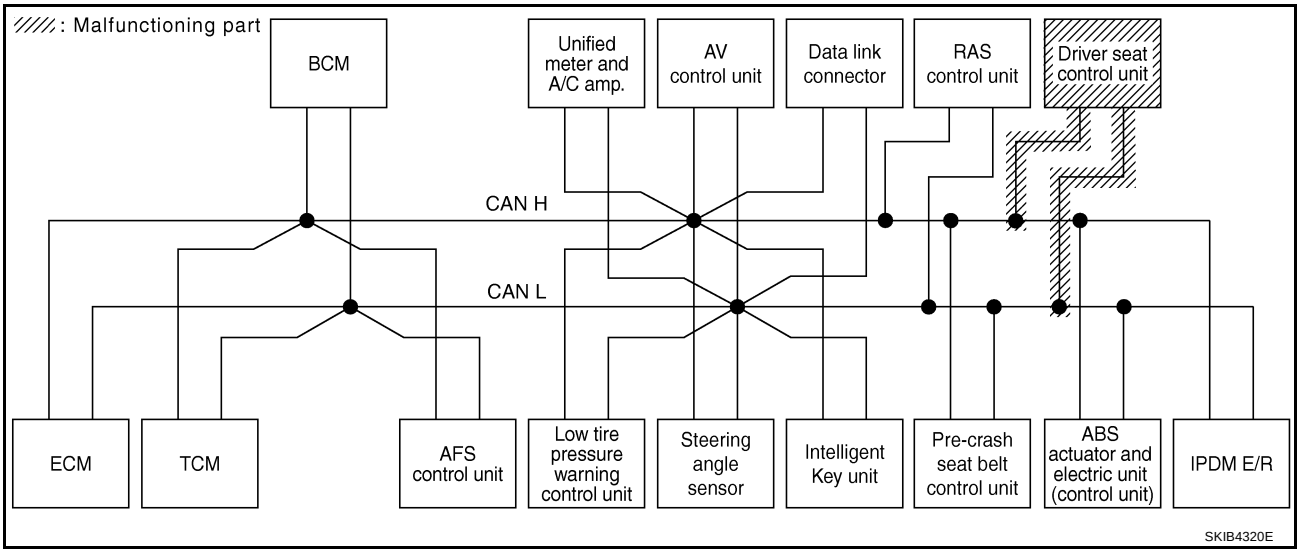
SKIB4319E

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



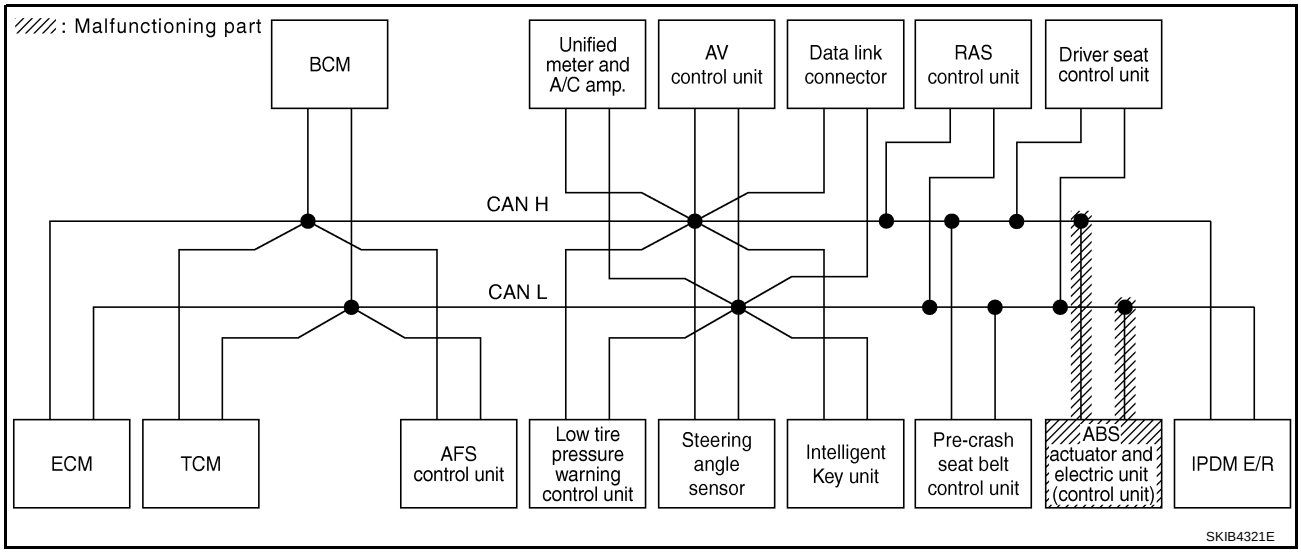
SKIB4320E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8487E

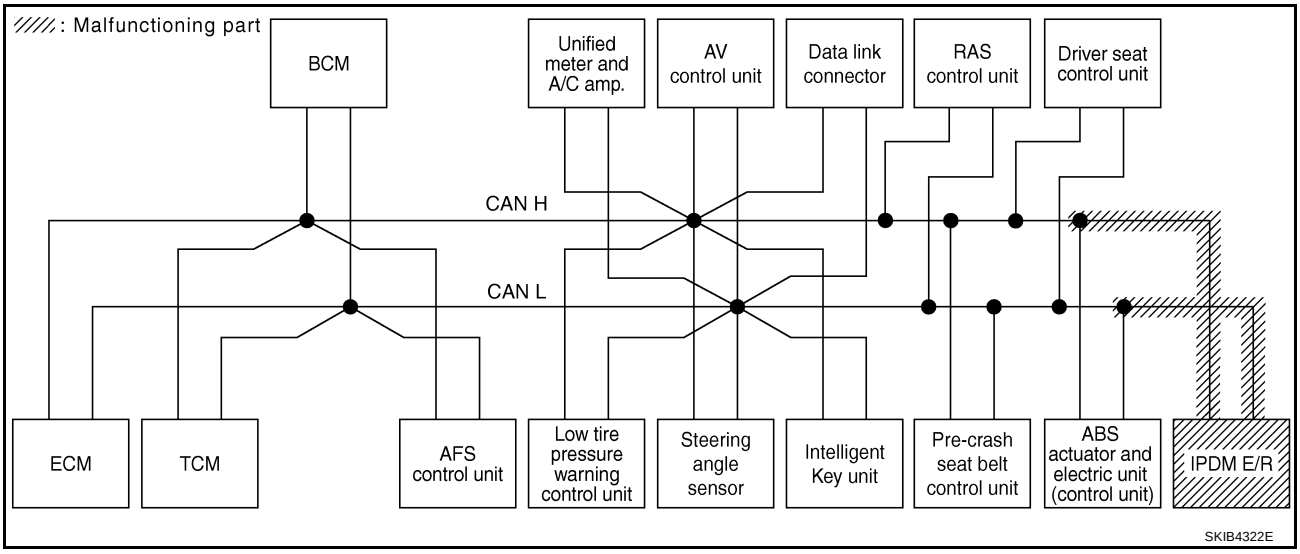


Case 20

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		
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



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													
				ECM	TCM	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	RAS	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	✓	—	✓	—	—	—	✓	—	—	✓	✓	✓	✓
A/T	—	NG	UNKWN	✓	—	—	—	—	—	—	✓	—	—	✓	—	✓	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	✓	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	✓	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	✓	—
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	✓	—
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—
PRECRASH SEATBELT	No indication	—	—	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	—	—	—	—	—	—	—	—	✓	—

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													
				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	✓	✓
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	✓	—	—	—	✓	—	UNKWN	—	—	—	UNKWN	✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	✓	—	✓	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	✓	—	UNKWN	—	—	—	UNKWN	—	—	✓	UNKWN	✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	✓	—	✓	—
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	—	—	—	—	✓	—
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)	—

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: 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	SELF-DIAG RESULTS	
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)	—
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	—	—	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

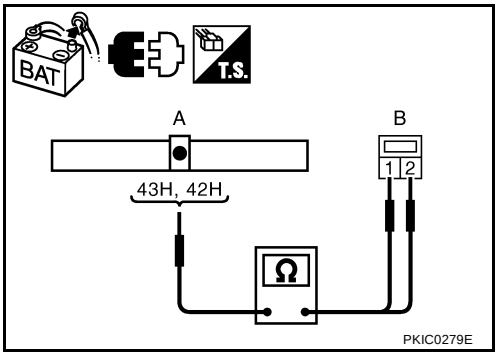
OK or NG

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



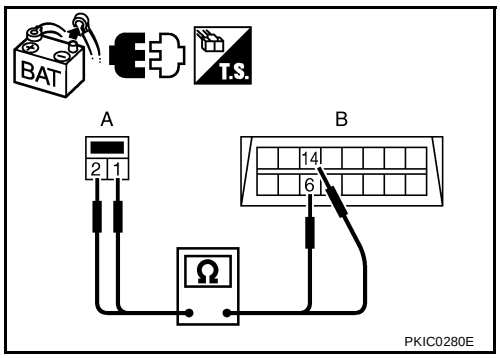
PKIC0279E

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

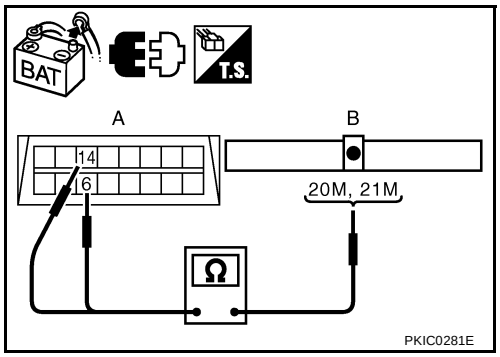
OK or NG

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

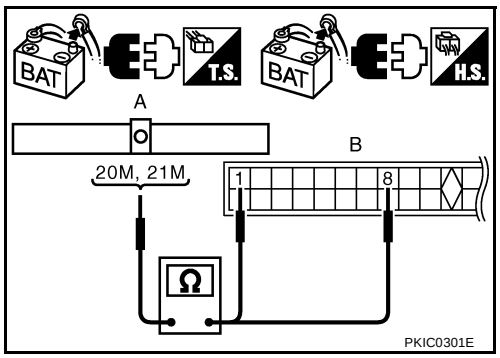
OK or NG

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.

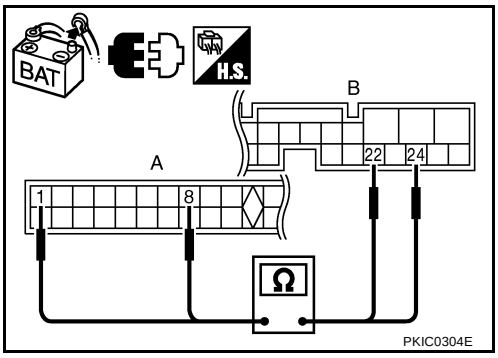
Inspection Between RAS Control Unit and Pre-Crash Seat Belt Control Unit Circuit

NKS0042O

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.

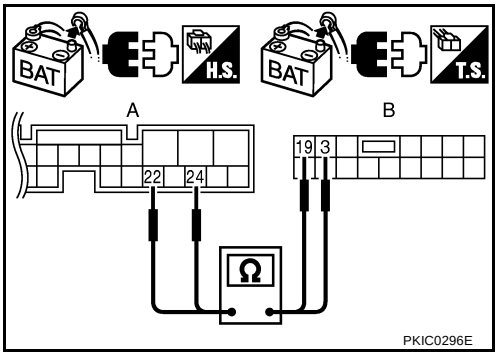
Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

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.

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

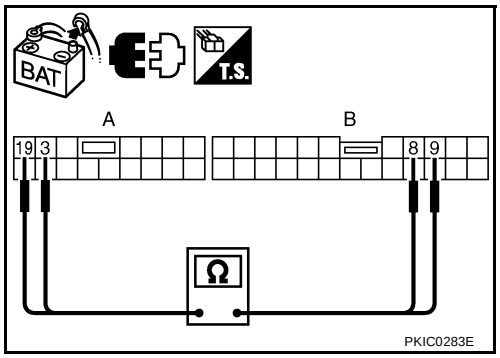
OK or NG

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



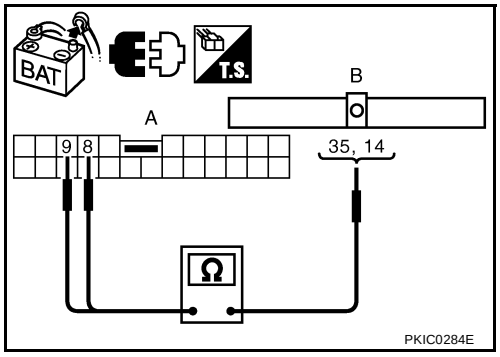
OK or NG

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).

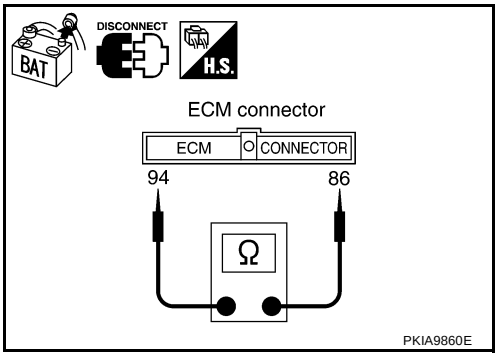
OK or NG

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.

TCM Circuit Inspection

NKS0042S

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

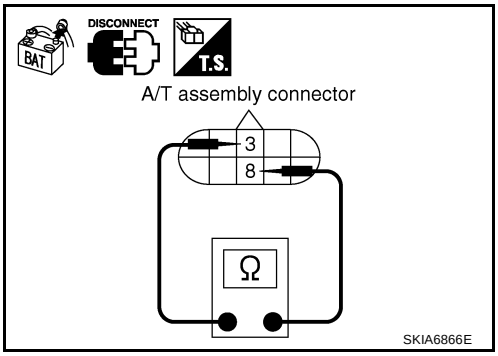
OK or NG

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

NKS0042T

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

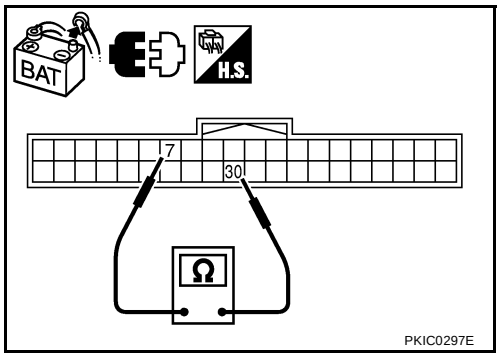
OK or NG

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

NKS0042U

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).

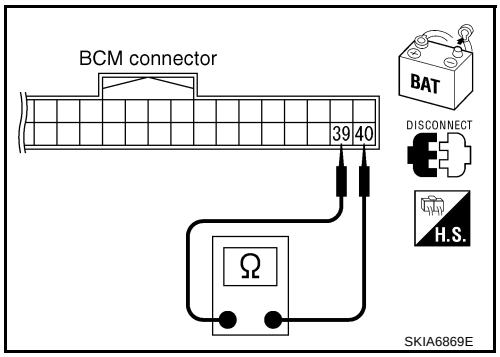
OK or NG

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).

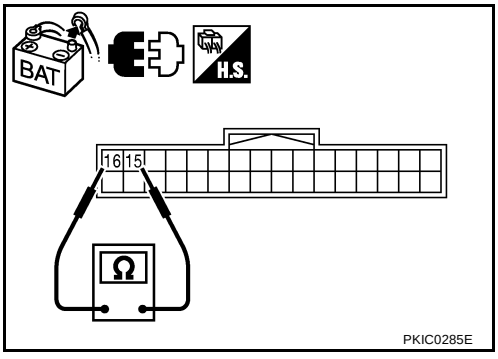
OK or NG

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).

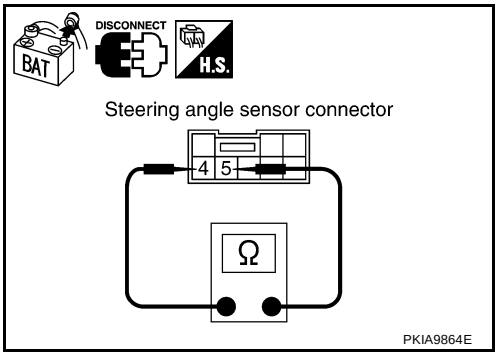
OK or NG

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

NKS0042X

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).

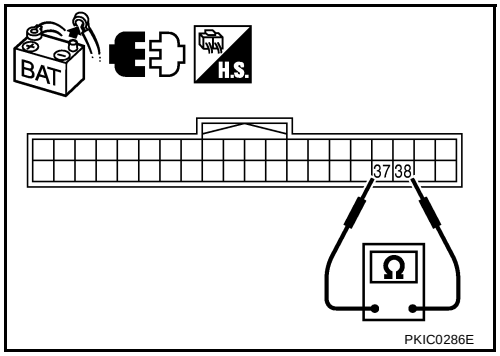
OK or NG

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

NKS0042Y

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).

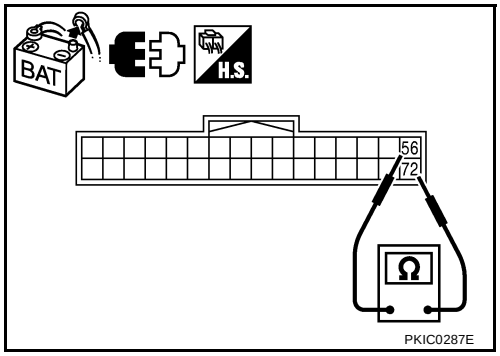
OK or NG

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

NKS0042Z

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

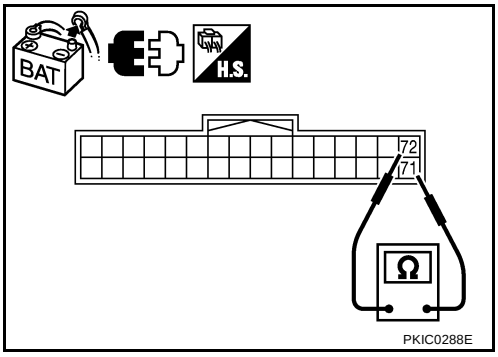
OK or NG

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



PKIC0288E

OK or NG

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

Data Link Connector Circuit Inspection

NKS00430

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).

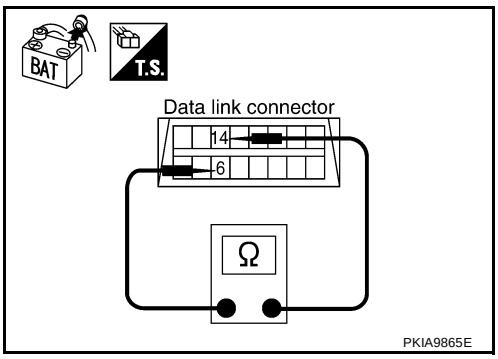
OK or NG

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



PKIA9865E

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

NKS00431

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).

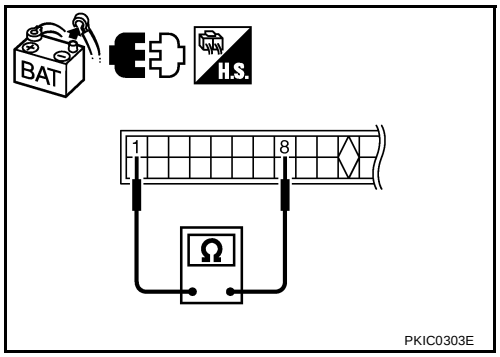
OK or NG

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

NKS00432

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).

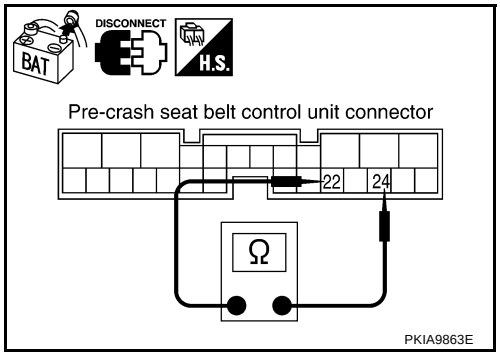
OK or NG

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

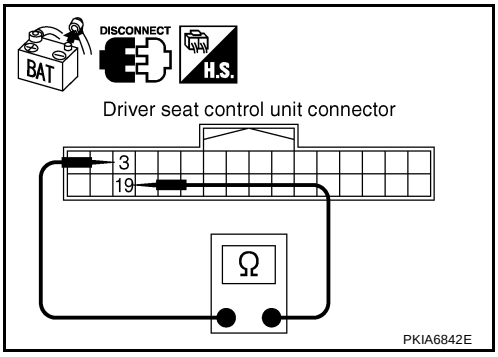
OK or NG

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).

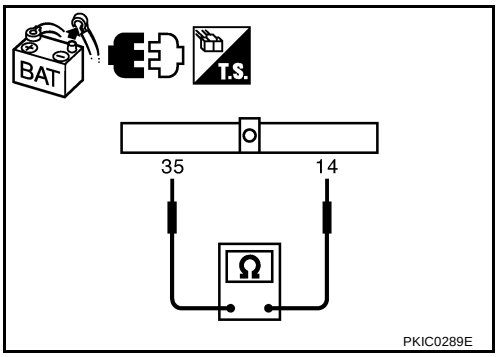
OK or NG

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

NKS00435

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).

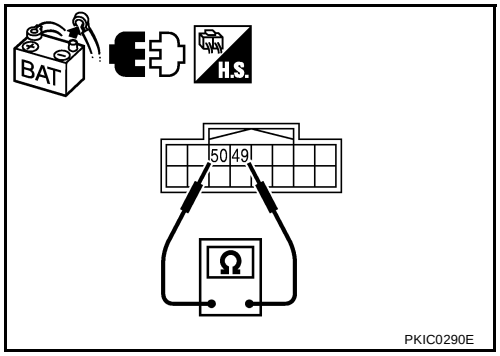
OK or NG

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

NKS00436

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

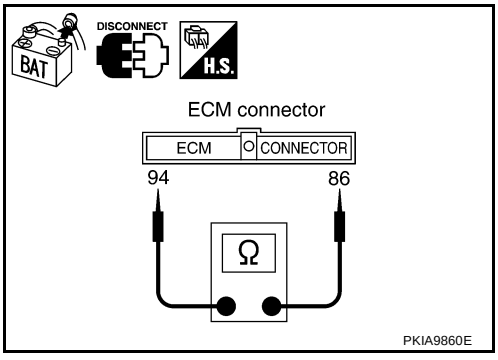
2. Check continuity between ECM harness connector terminals.

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.

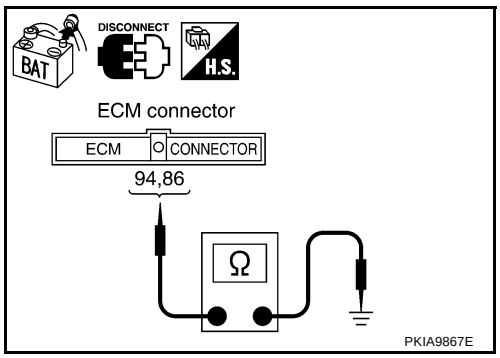
- Harness between ECM and harness connector M72
- Harness between ECM and BCM
- Harness between ECM and harness connector M61



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.

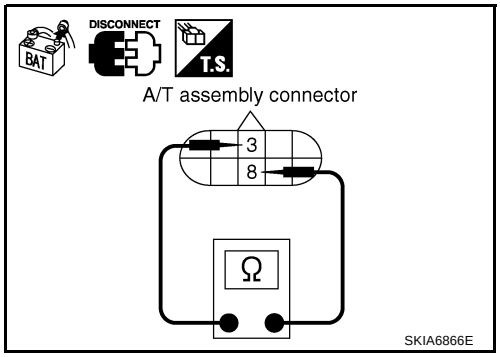
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

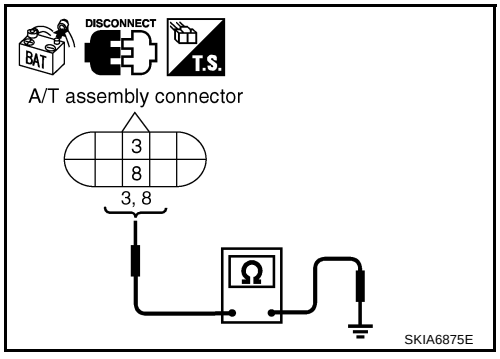
OK >> GO TO 5.

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

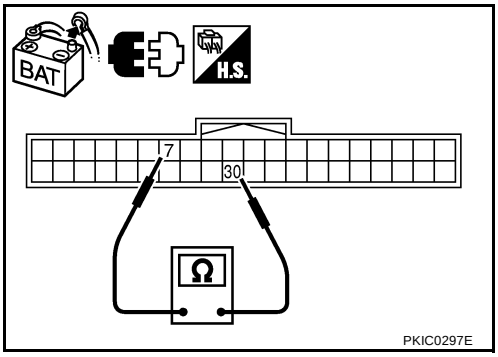
OK >> GO TO 6.

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

6. CHECK HARNESS FOR SHORT CIRCUIT

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

AFS control unit connector	Terminal		Continuity
F110	30	7	No



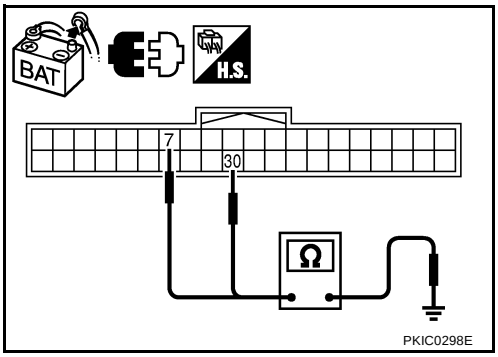
OK or NG

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



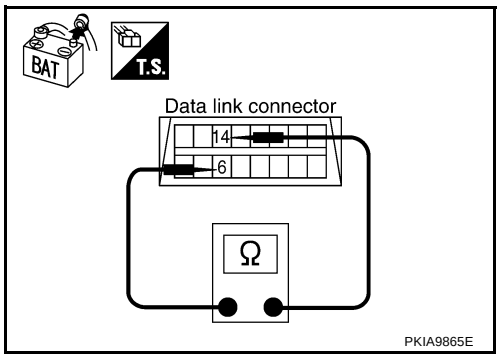
OK or NG

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

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

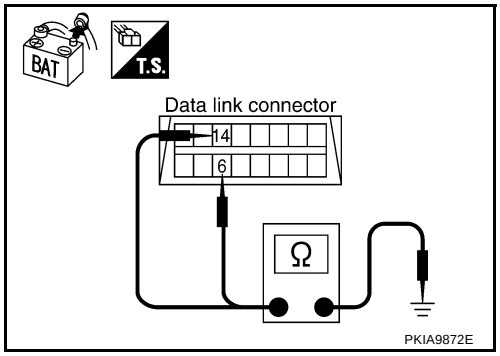
OK >> GO TO 9.

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

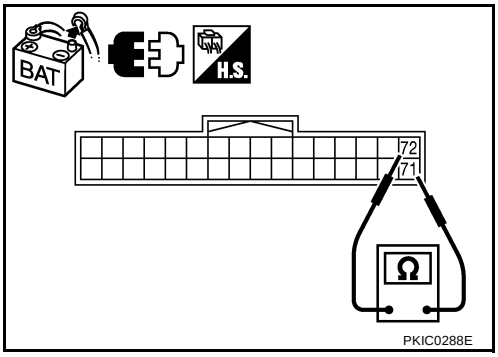
OK >> GO TO 10.

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

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



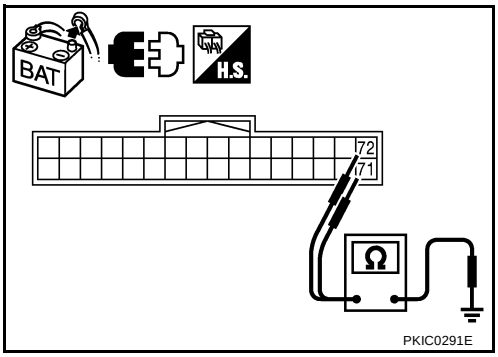
OK or NG

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

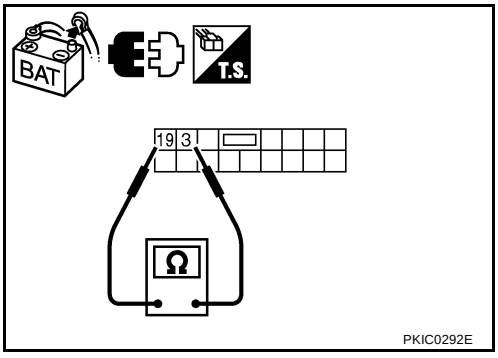
OK >> GO TO 12.
NG >> Repair harness between AV control unit and harness connector M216.

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



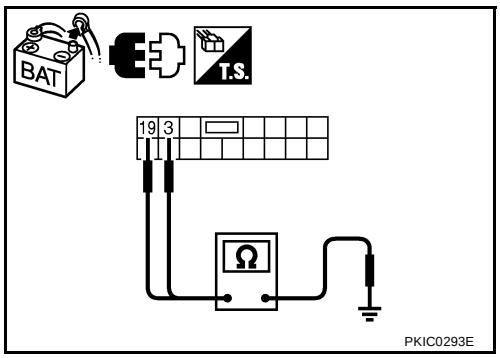
OK or NG

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

13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No



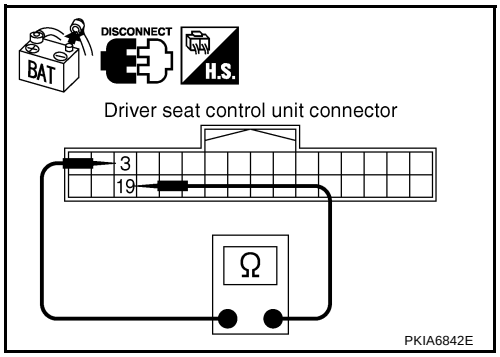
OK or NG

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



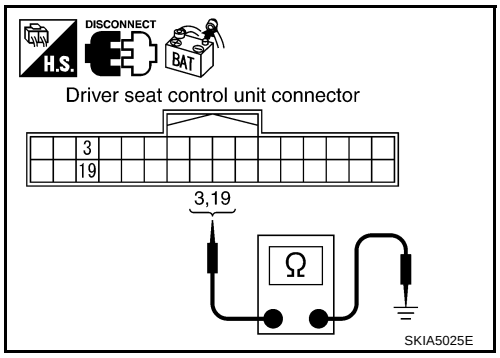
OK or NG

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



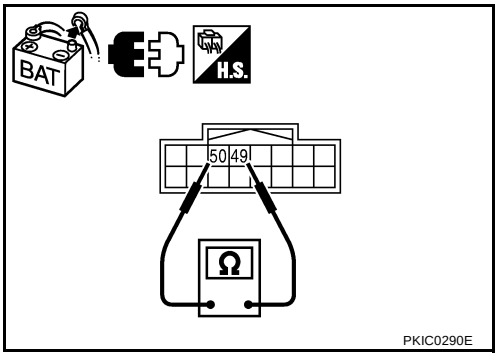
OK or NG

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

16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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.

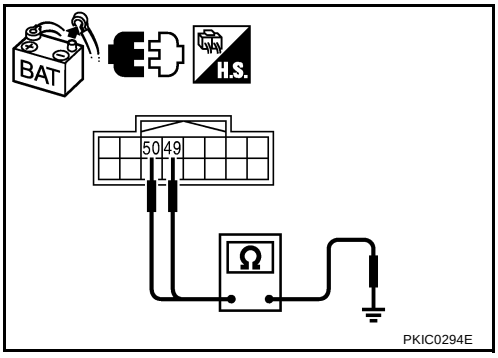
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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)

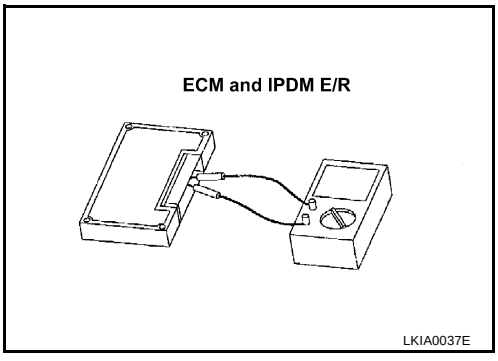
18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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.

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”" .

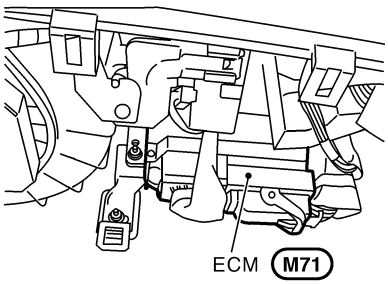
CAN SYSTEM (TYPE 9)

PFP:23710

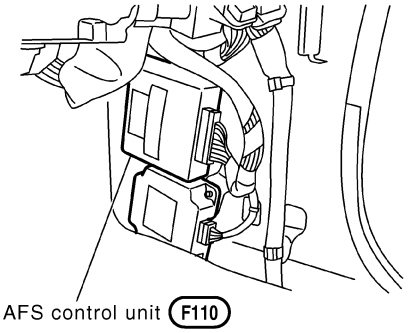
Component Parts and Harness Connector Location

NKS00438

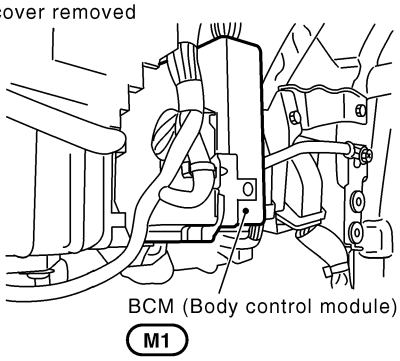
Passenger side view with instrument lower cover removed



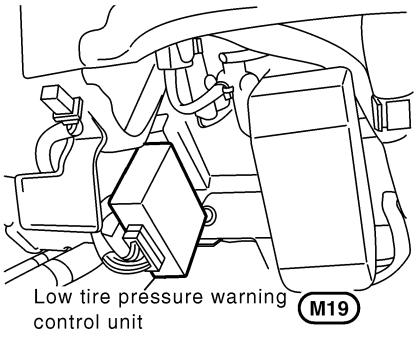
Behind dash side lower RH finisher



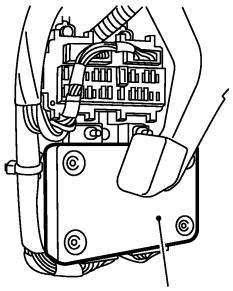
Passenger side view with instrument lower cover removed



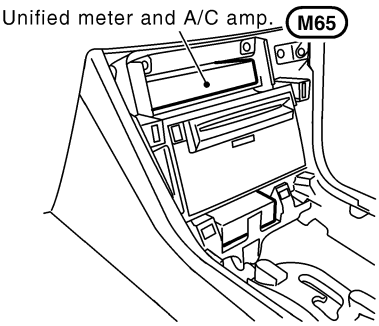
Driver side view with instrument lower panel removed



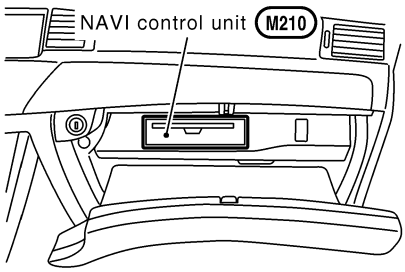
Behind dash side lower LH finisher



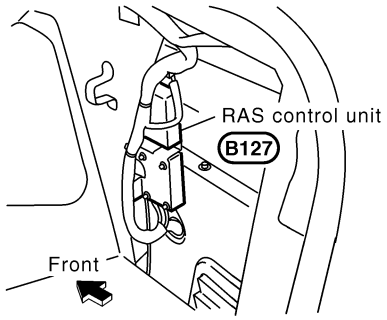
View with cluster lid C removed



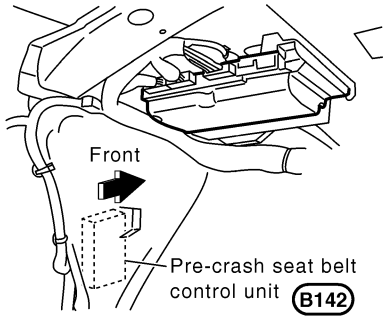
Inside of glove box



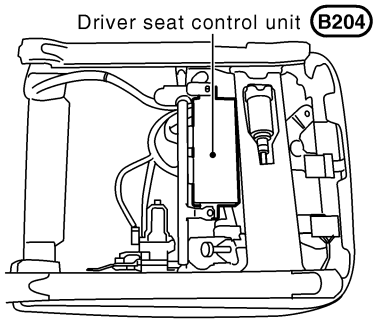
View with trunk side RH finisher removed



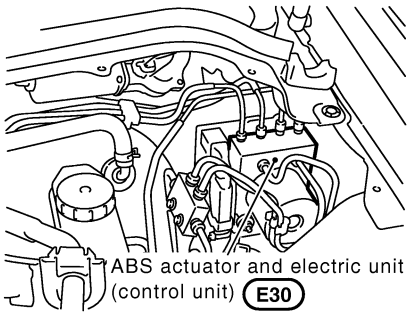
View with trunk side LH finisher and front finisher removed



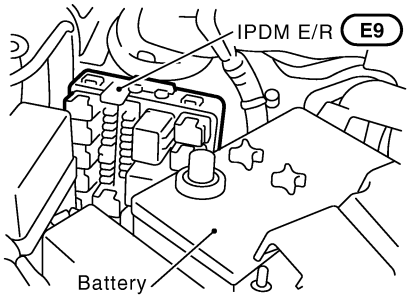
Under driver's seat



Rear left of engine room



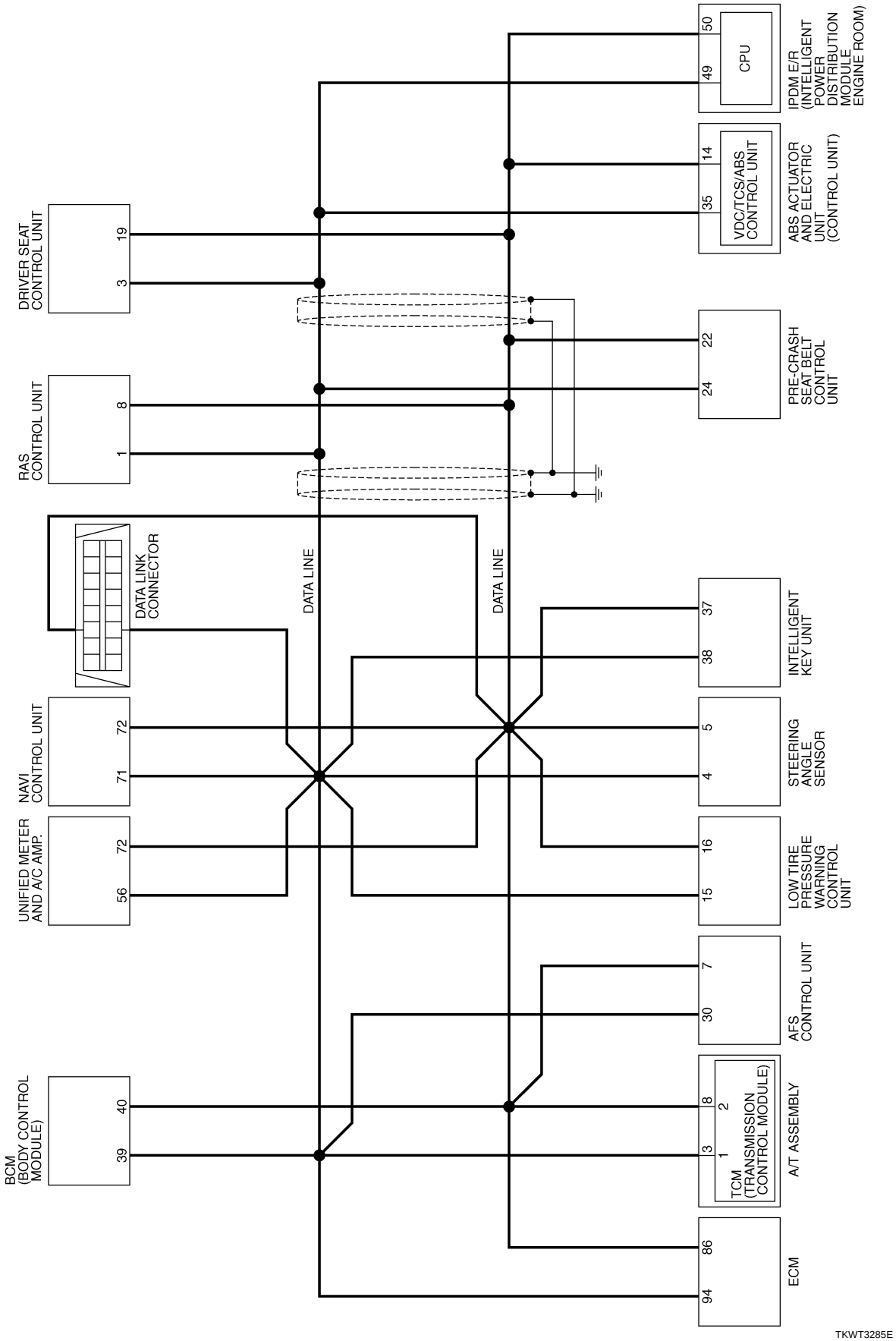
View with cowl top cover removed



PKIC0607E

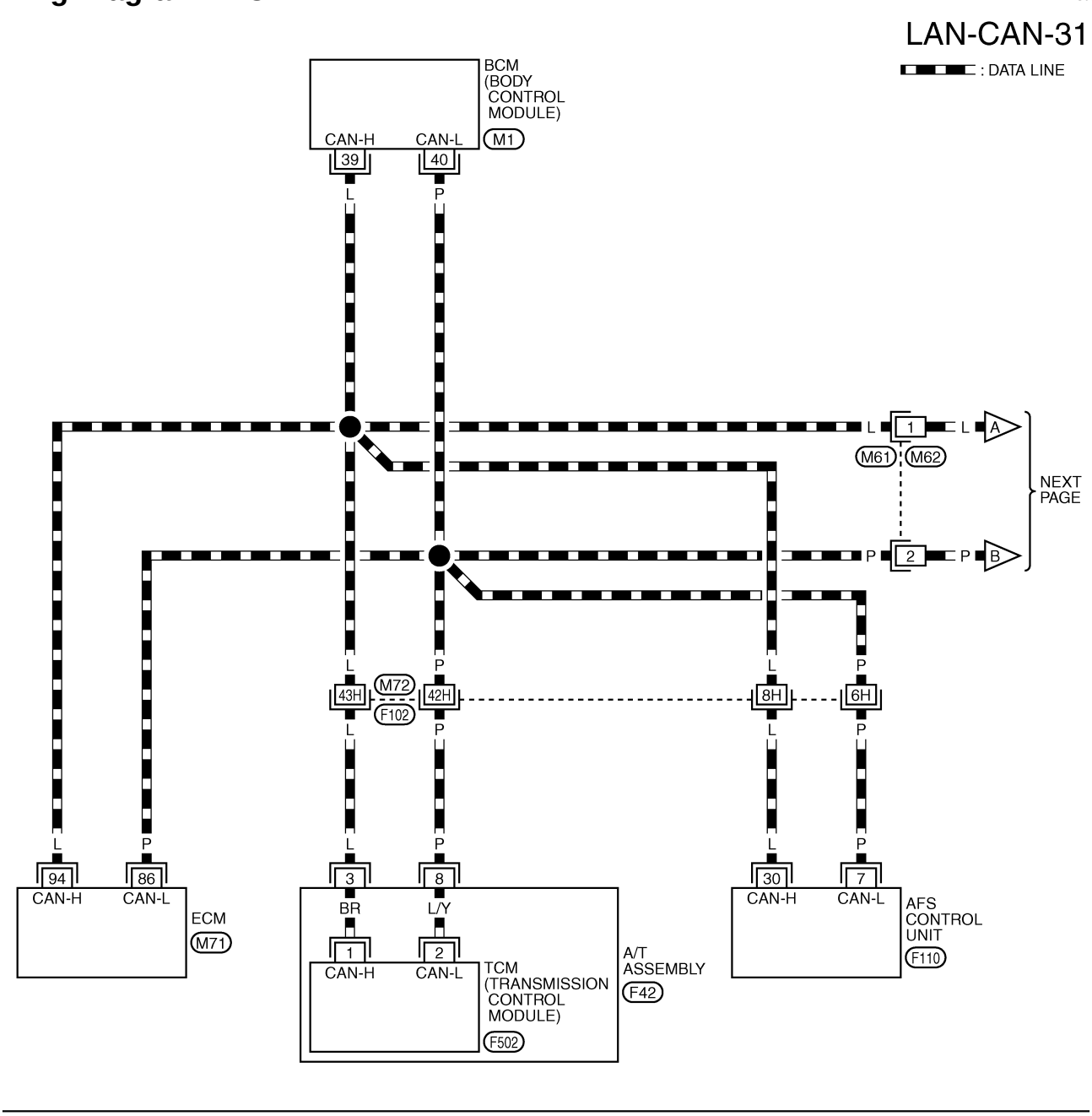
Schematic

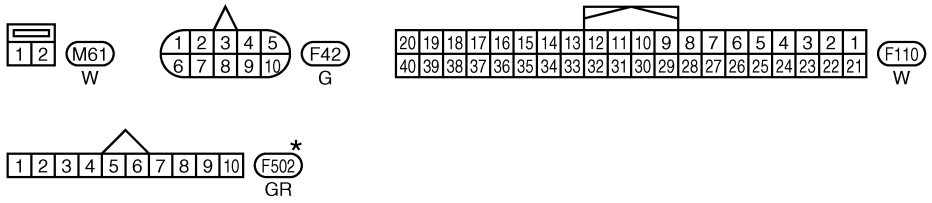
NKS00439



Wiring Diagram — CAN —

NKS0043A





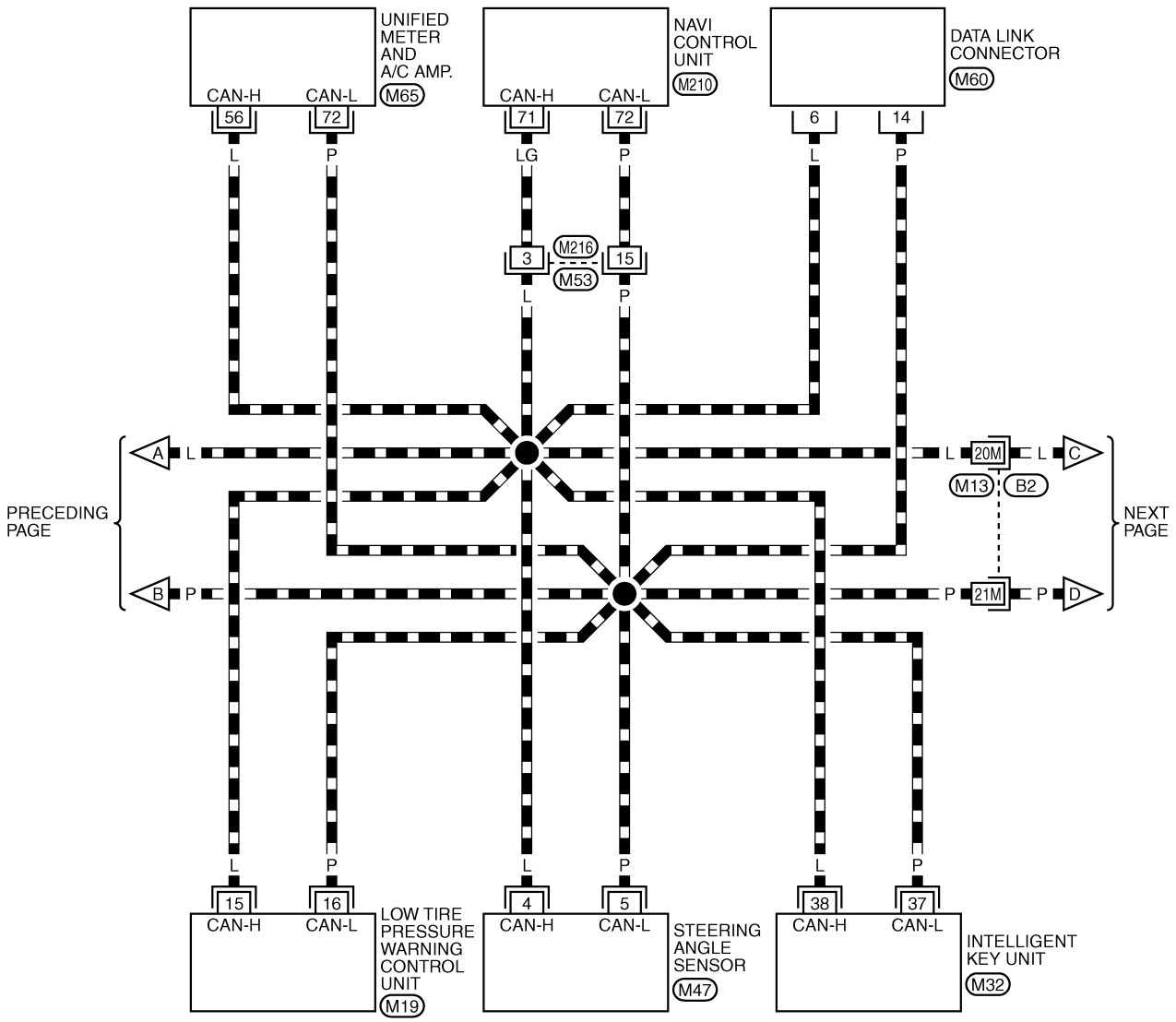
REFER TO THE FOLLOWING.
F102 -SUPER MULTIPLE JUNCTION (SMJ)
M1 , M71 -ELECTRICAL UNITS

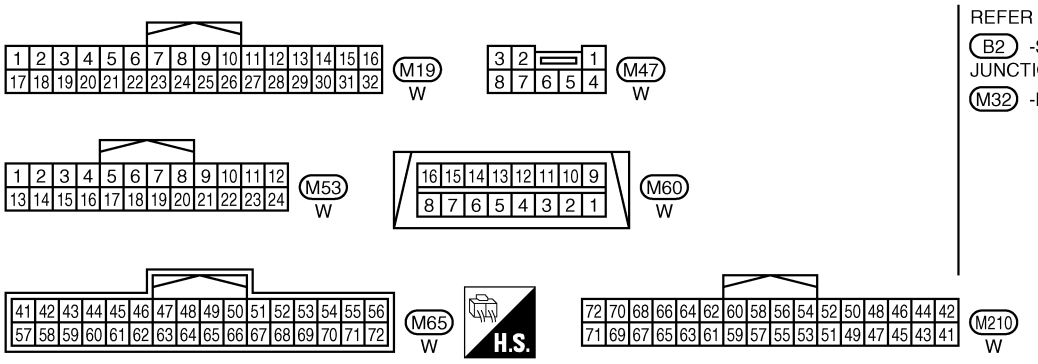
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3286E

LAN-CAN-32

: DATA LINE





REFER TO THE FOLLOWING.

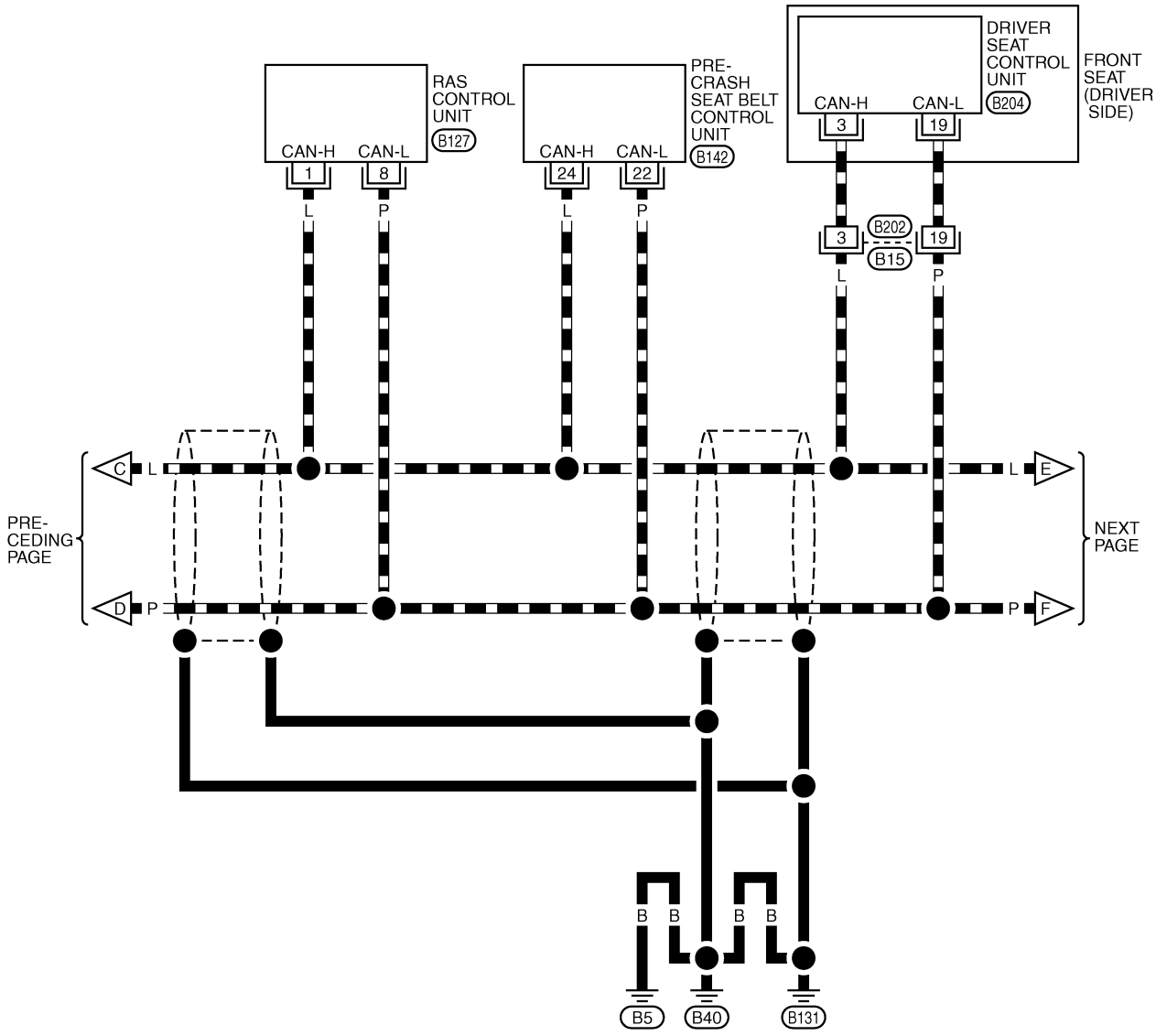
B2 -SUPER MULTIPLE JUNCTION (SMJ)

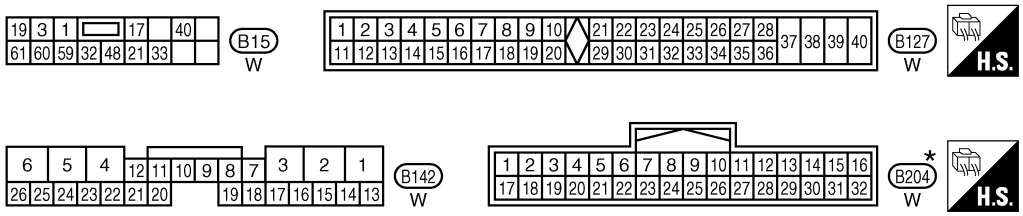
M32 -ELECTRICAL UNITS

TKWT3287E

LAN-CAN-33

: DATA LINE





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

TKWT3288E

LAN-CAN-34

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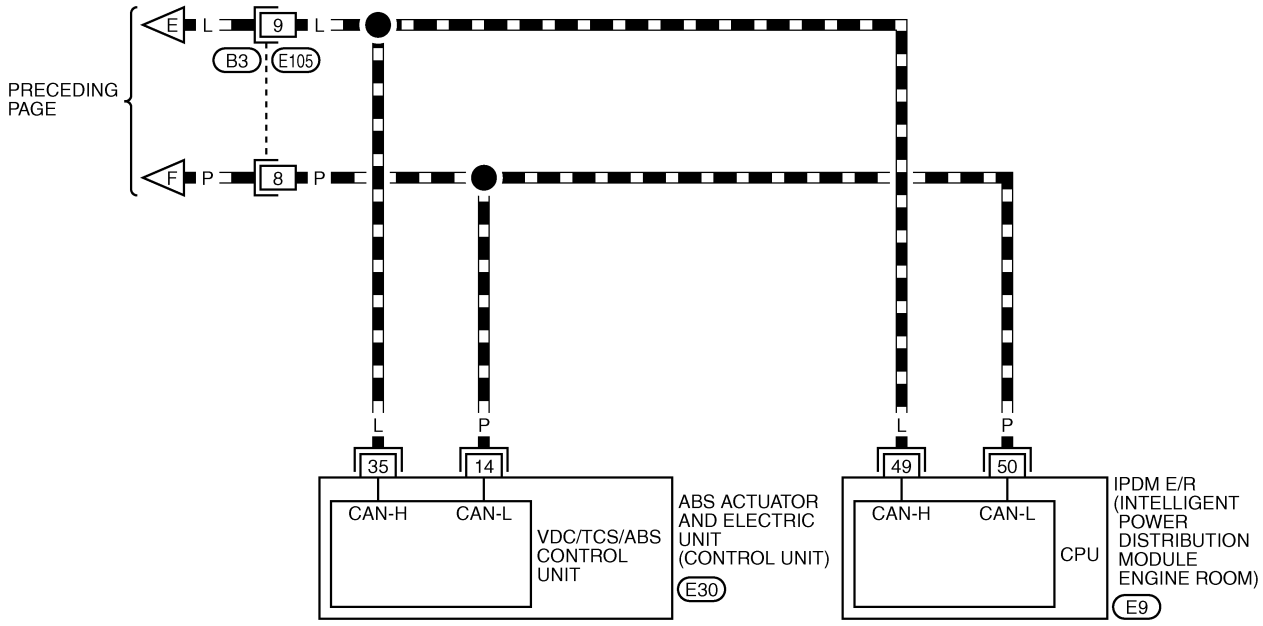
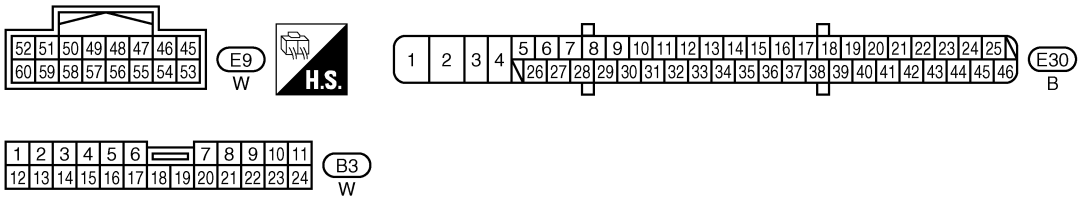




TKWT3289E

Check Sheet

NKS0043B

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	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)	—

Symptoms :

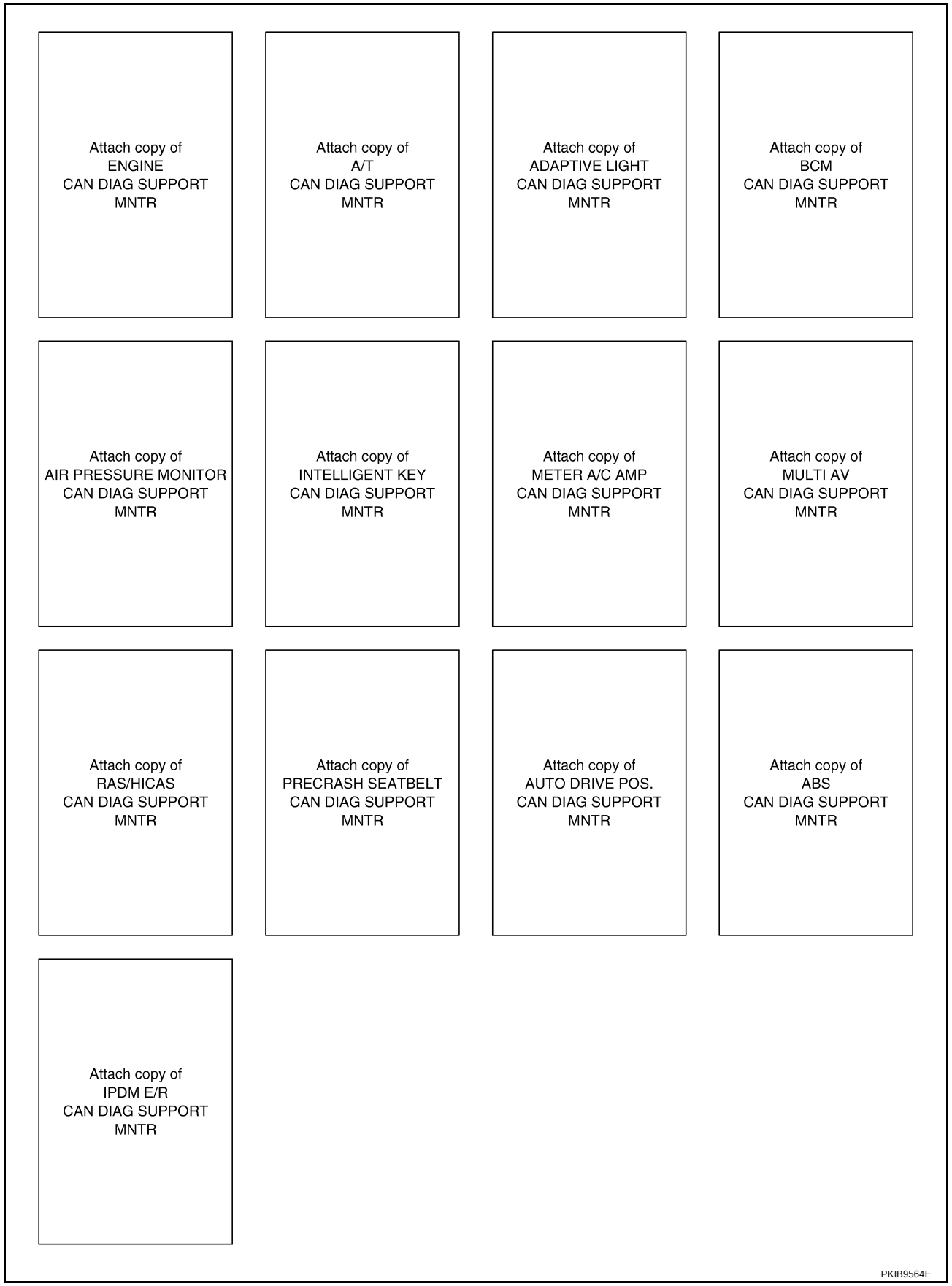
Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIB8468E

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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ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
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MNTR
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ADAPTIVE LIGHT
CAN DIAG SUPPORT
MNTR
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BCM
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IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB9564E

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													
				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)	—

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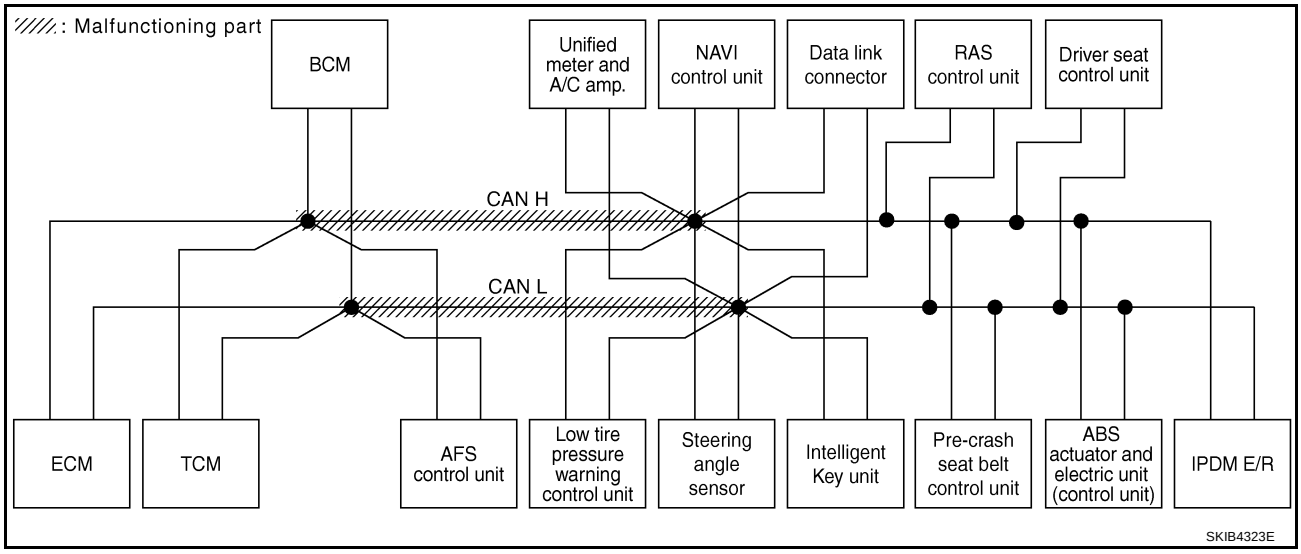
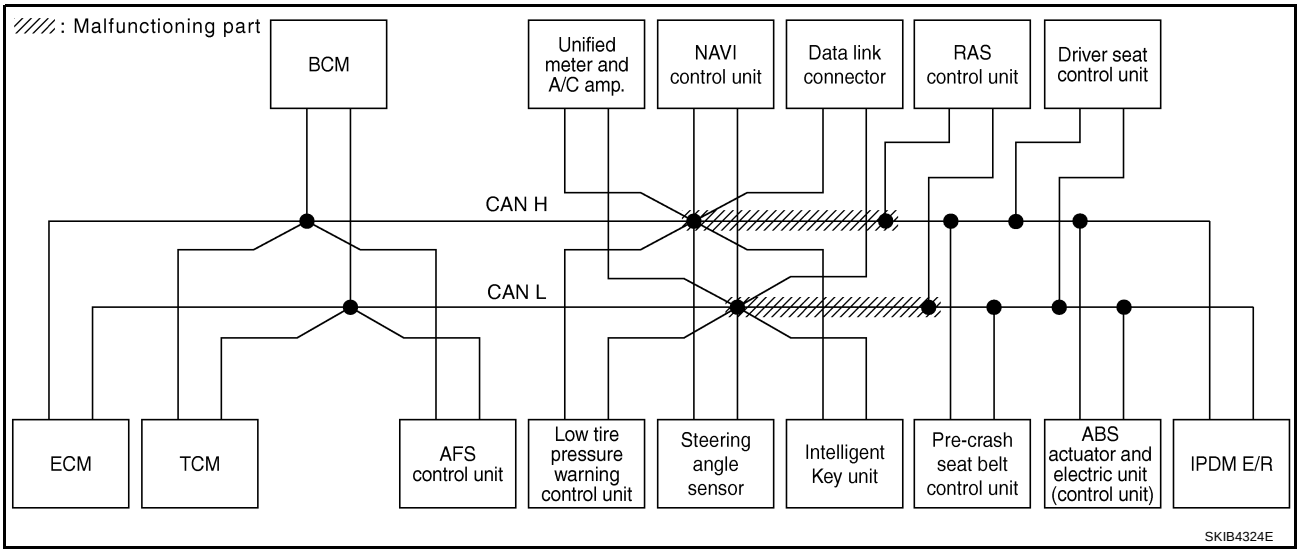


Case 2

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8470E

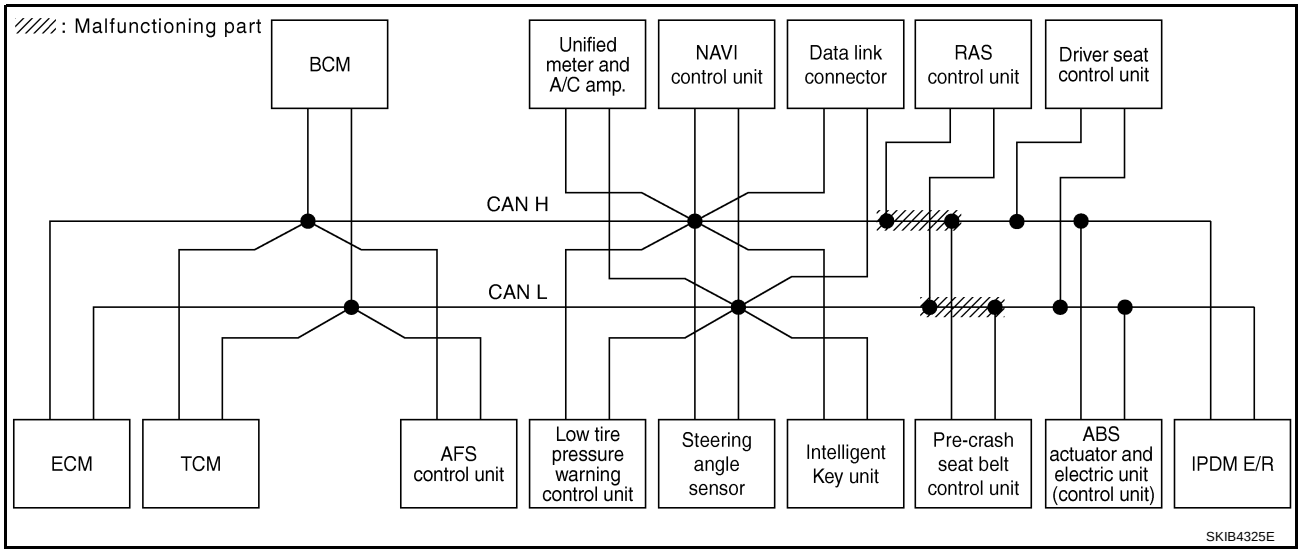


Case 3

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													
				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)	—

PKIB8471E

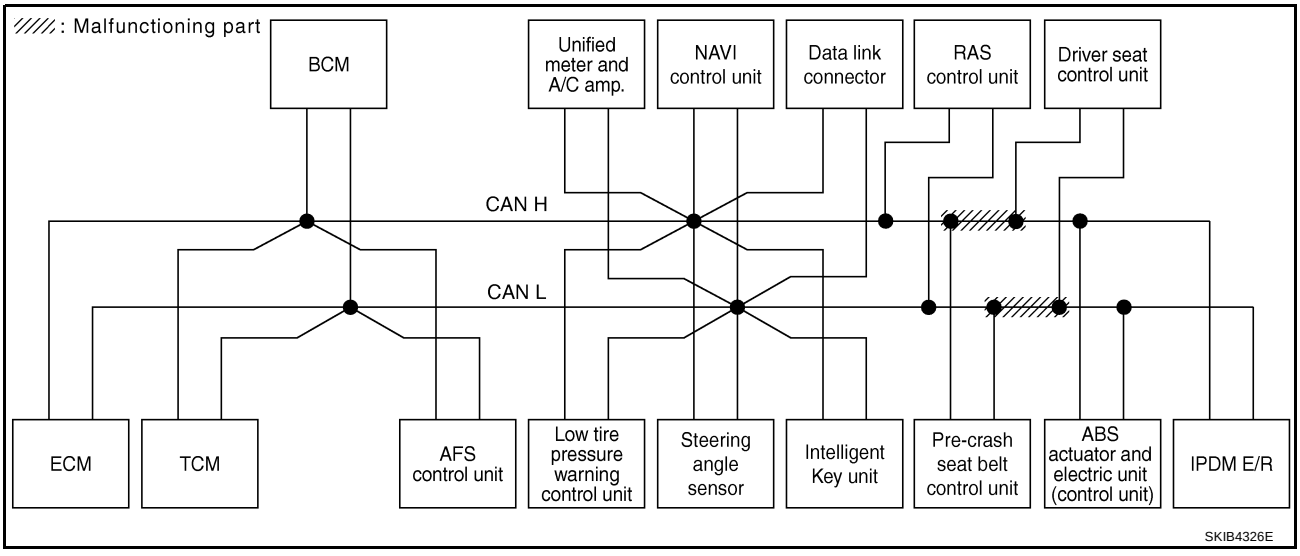


Case 4

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													
				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)	—

PKIB8472E

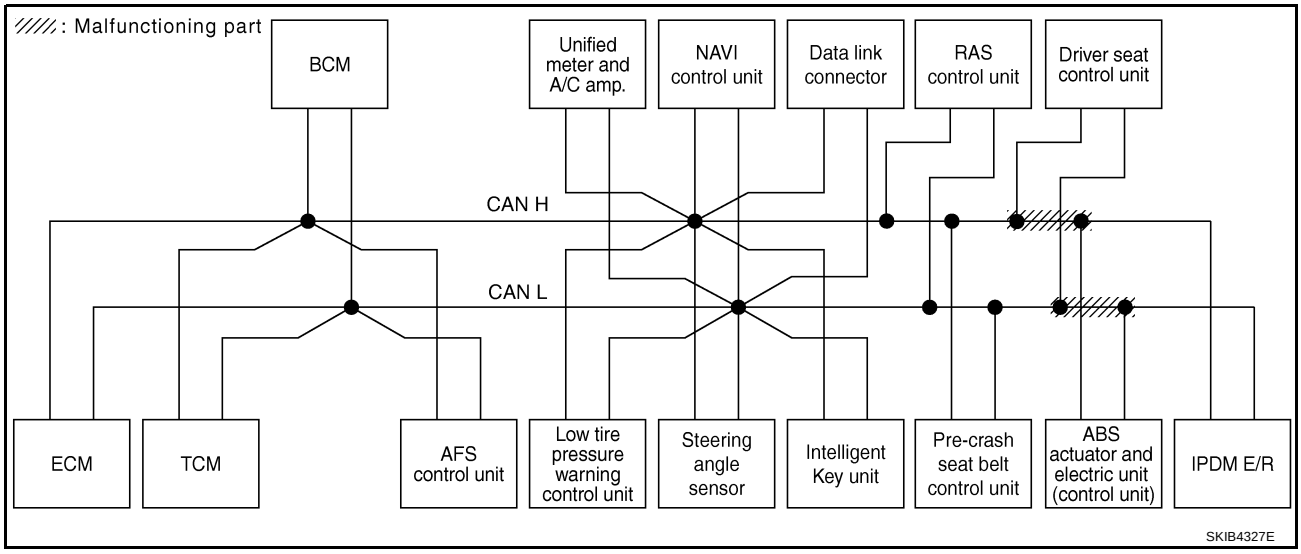


Case 5

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													
				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)	—

PKIB8473E

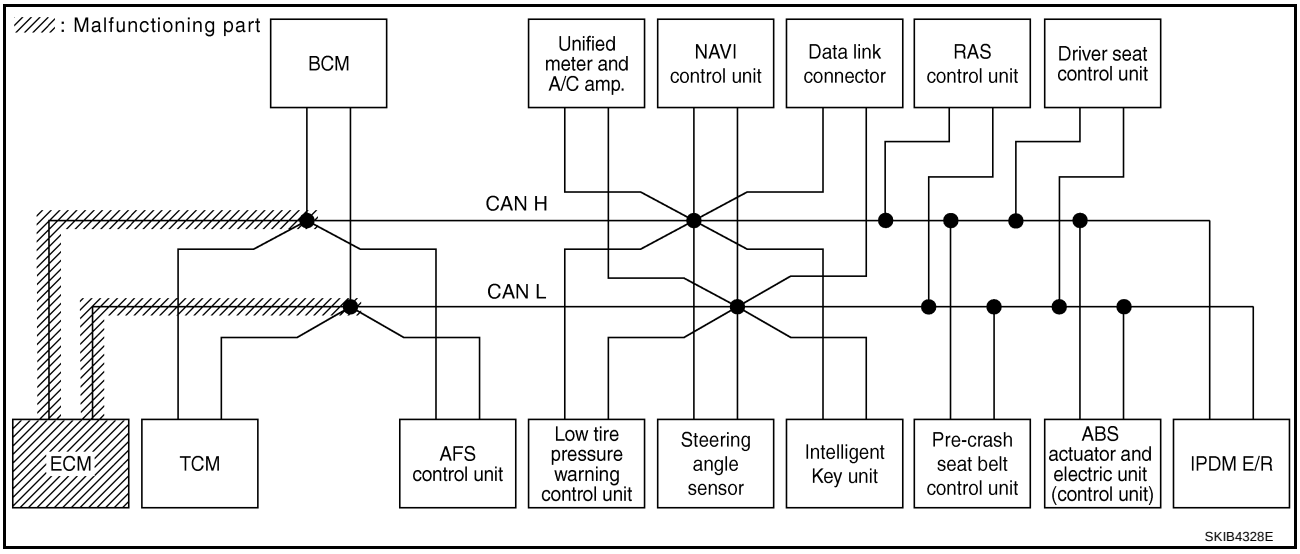


Case 6

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		
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)	—

PKIB8474E



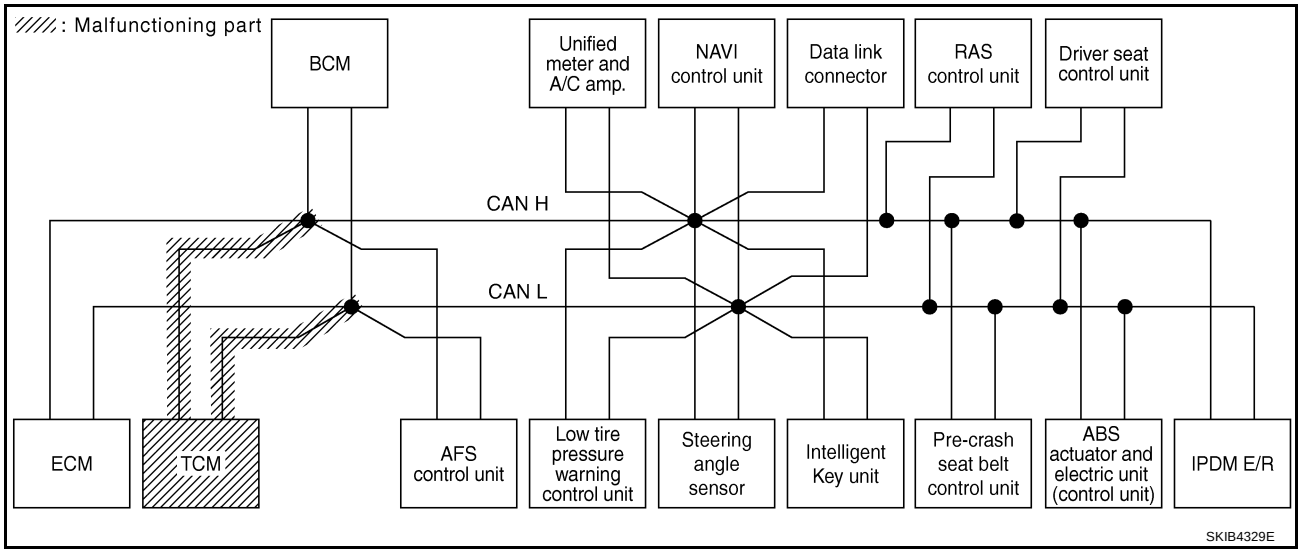
SKIB4328E

Case 7

Check TCM circuit. Refer to LAN-451, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
ENGINE	—	—	UNKWN	—	✓	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
A/T	—	NG	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	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8475E

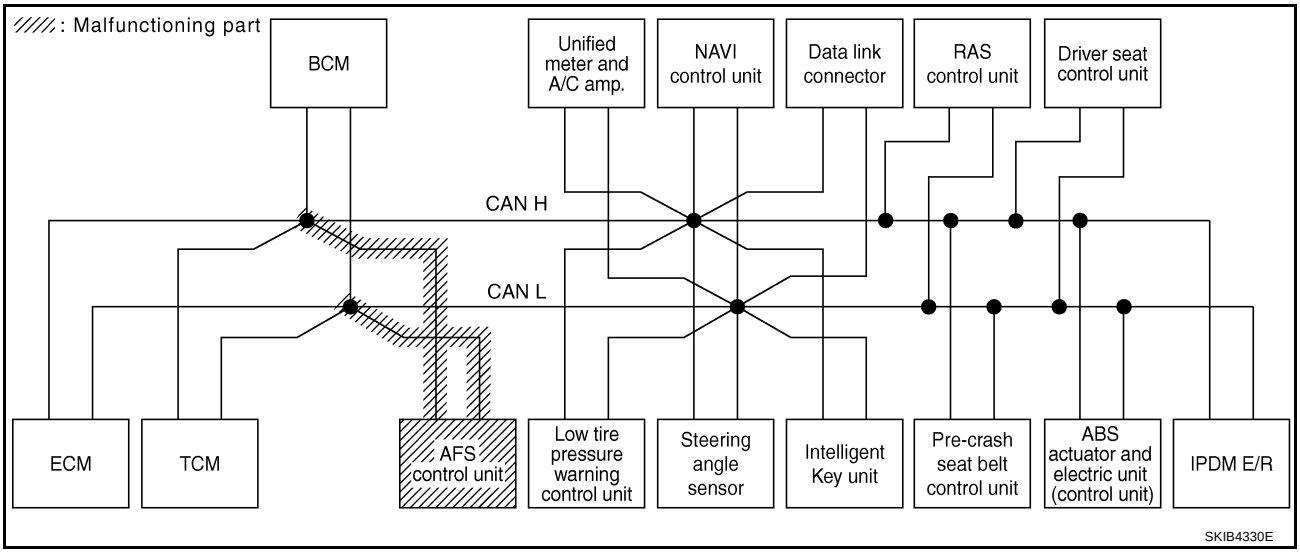


Case 8

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	—	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



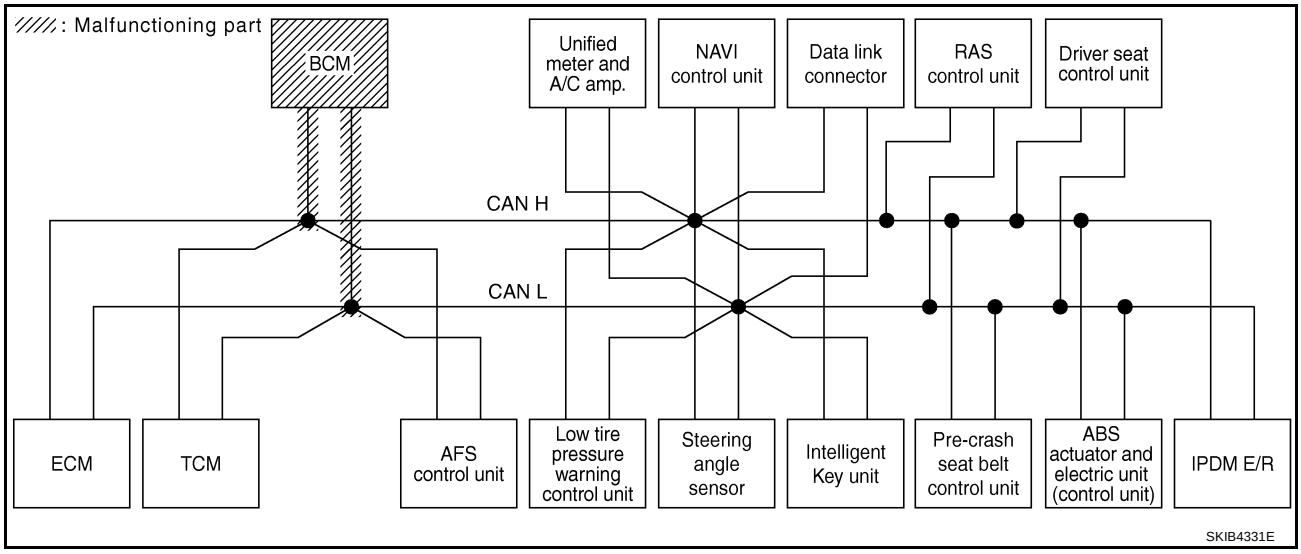
SKIB4330E

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

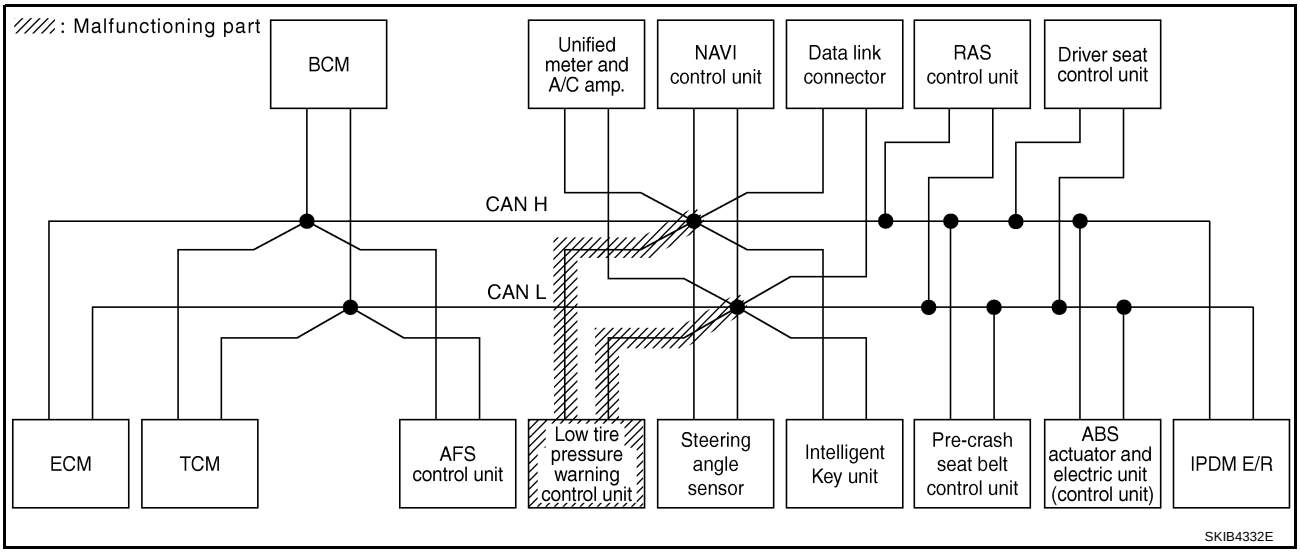


Case 10

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													
				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)	—

PKIB8478E

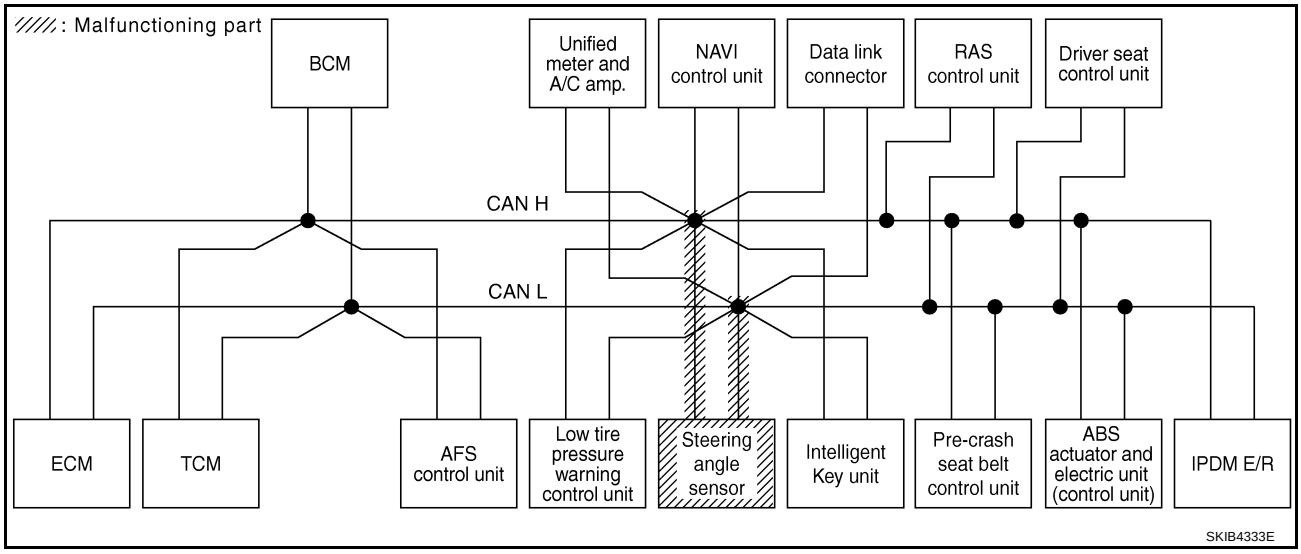


Case 11

Check steering angle sensor circuit. Refer to LAN-453, "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



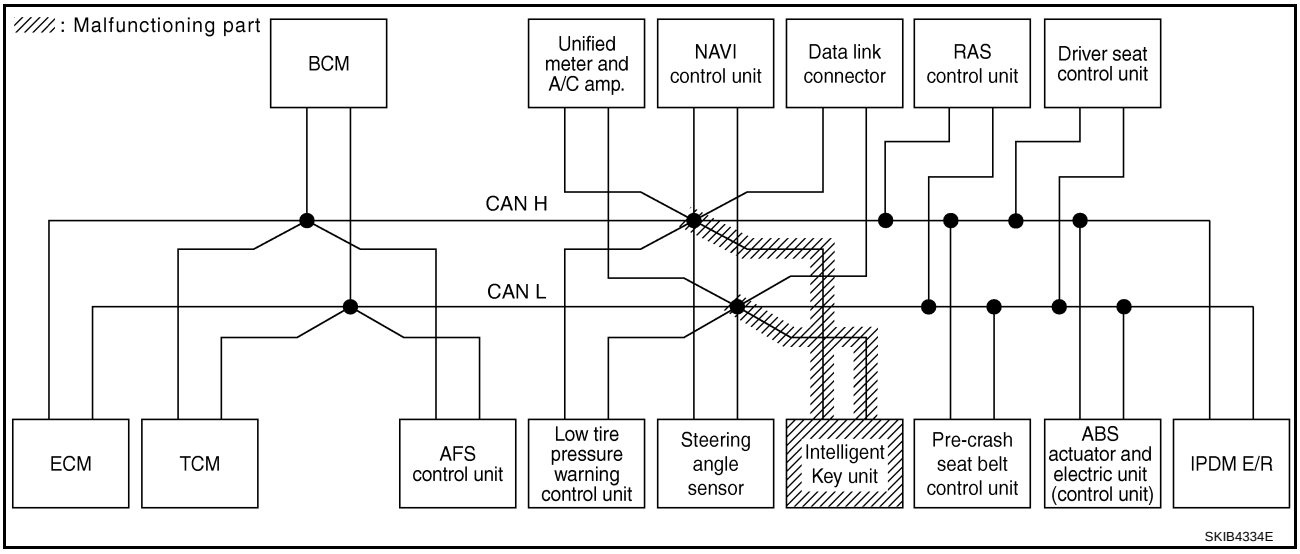
SKIB4333E

Case 12

Check Intelligent Key unit circuit. Refer to LAN-454, "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



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													
				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)	—

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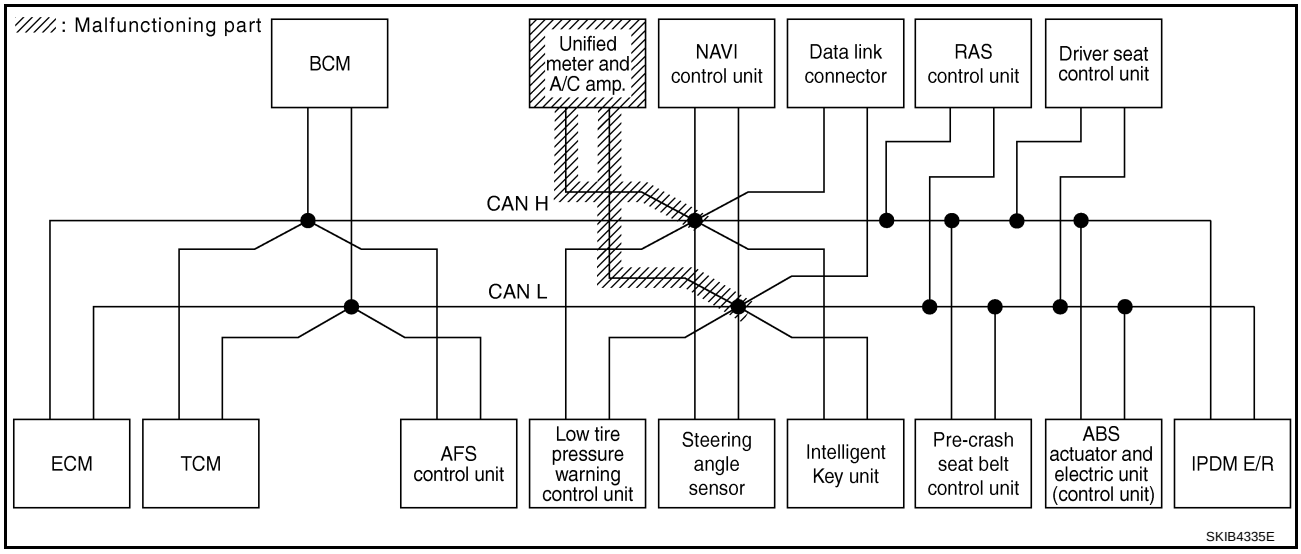

Case 14

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													
				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)	—

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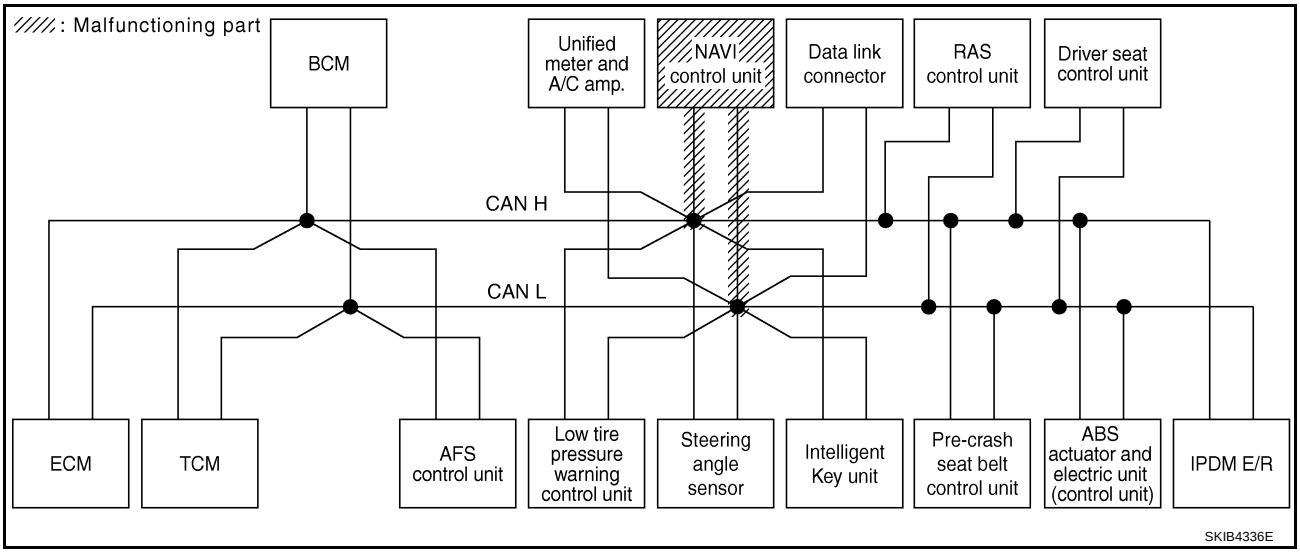

Case 15

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	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)	—

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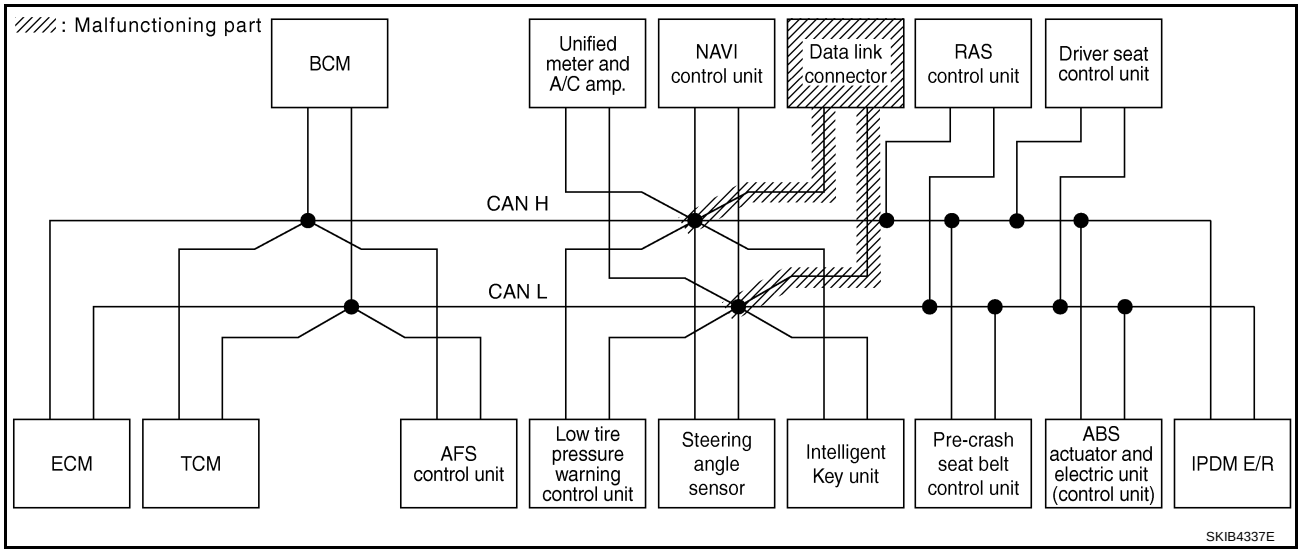

Case 16

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)	—

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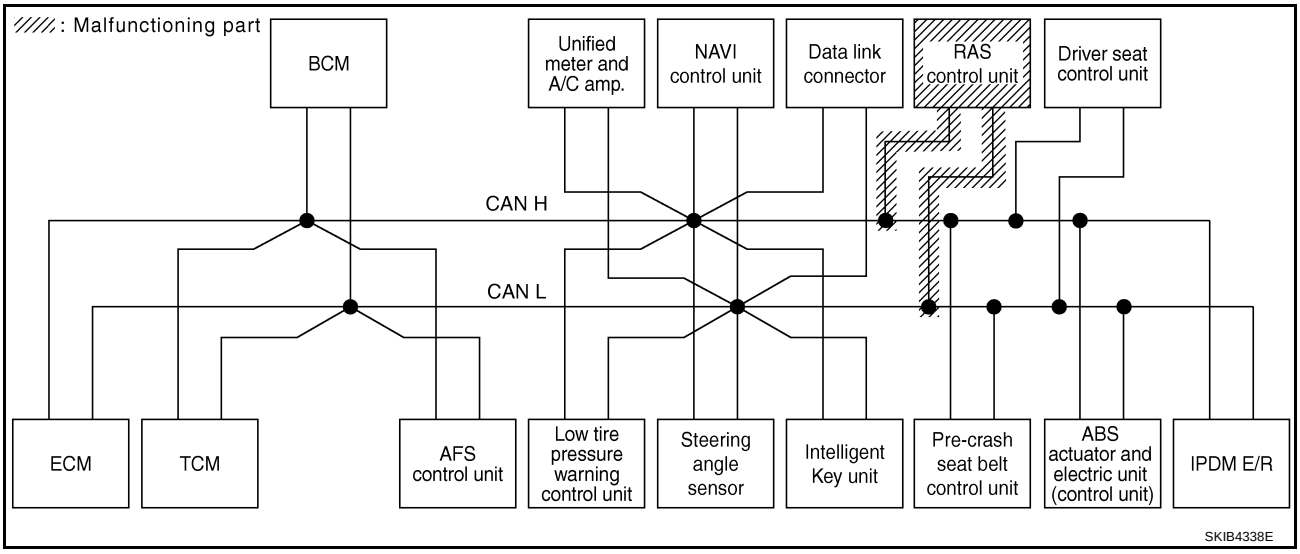

Case 17

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													
				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)	—

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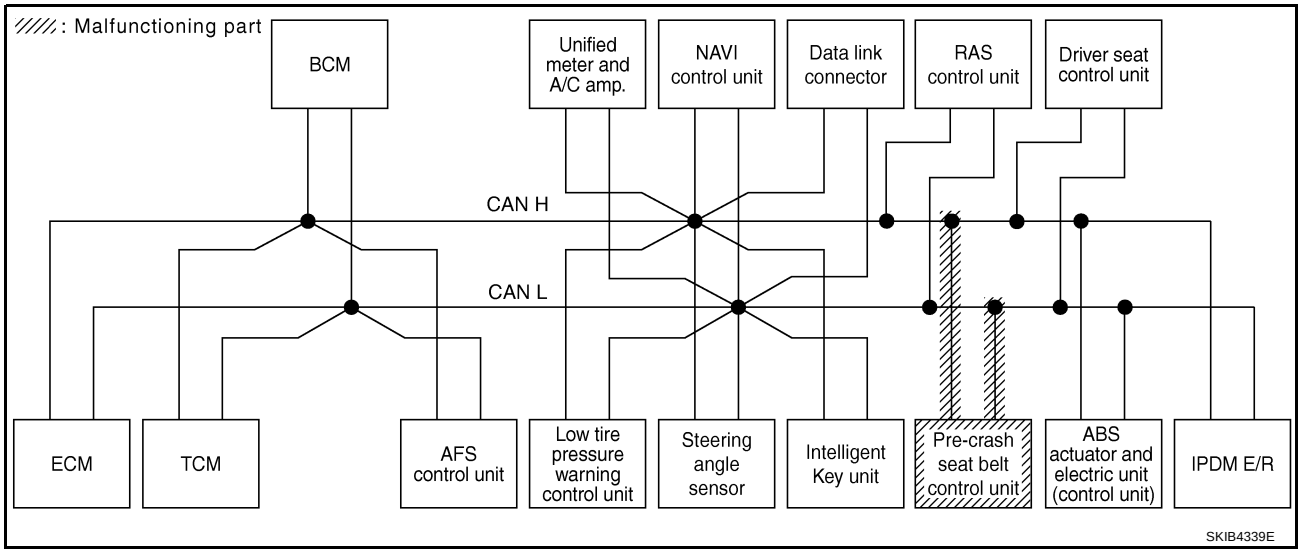
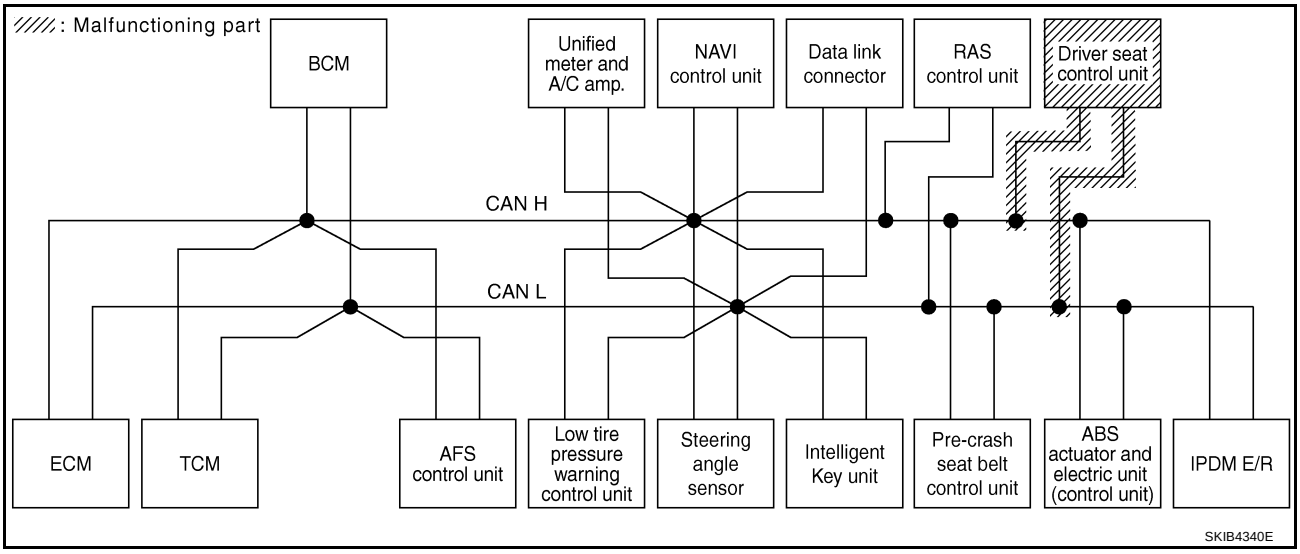


Case 18

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		
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



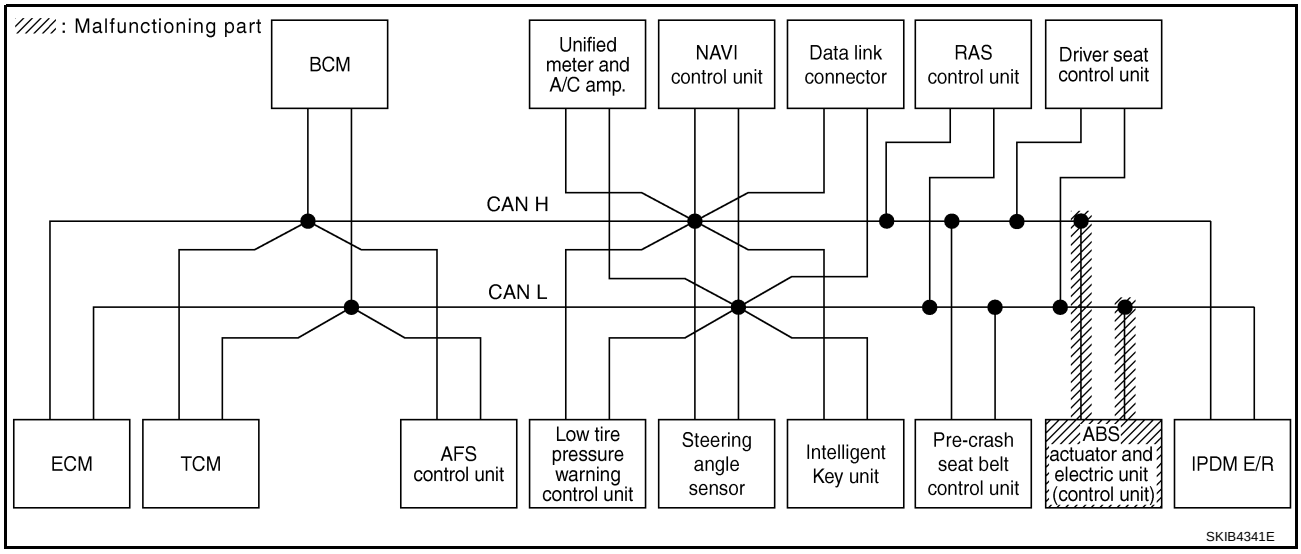
SKIB4340E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8487E



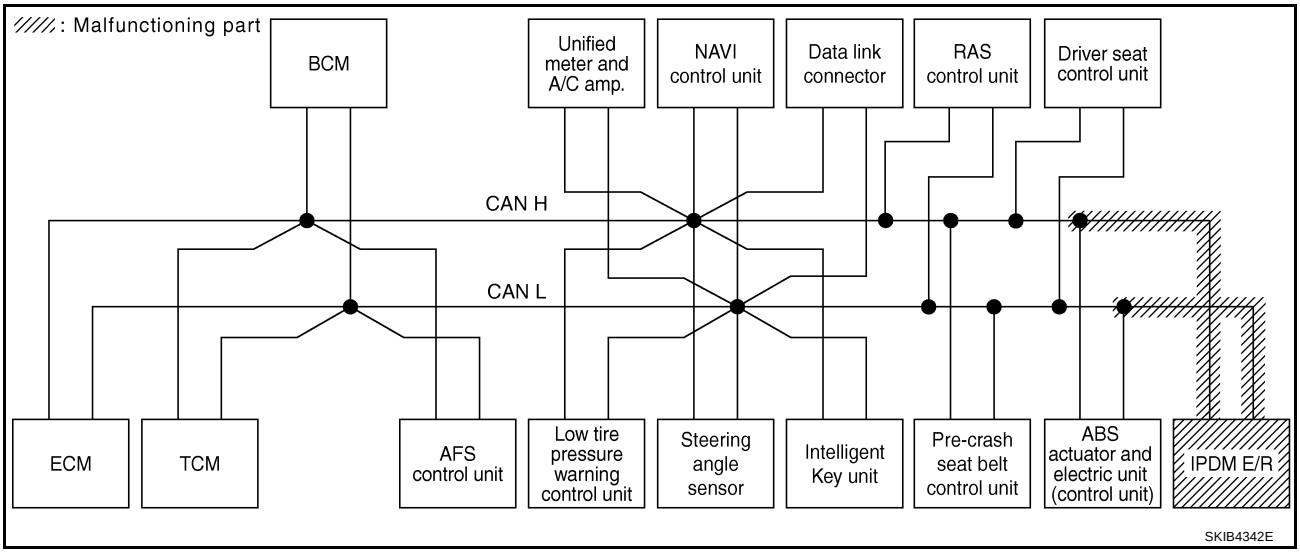
SKIB4341E

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		
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



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													
				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	—	—	—
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)	—

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													
				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)	—

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: 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	SELF-DIAG RESULTS	
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)	—
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	—	—	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

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

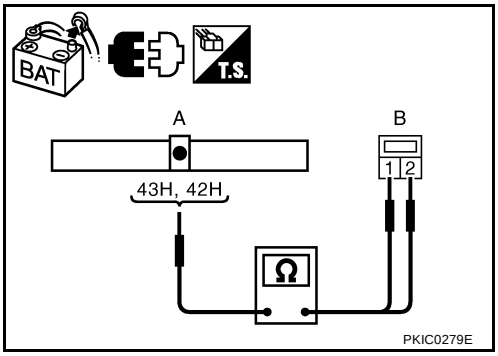
OK or NG

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



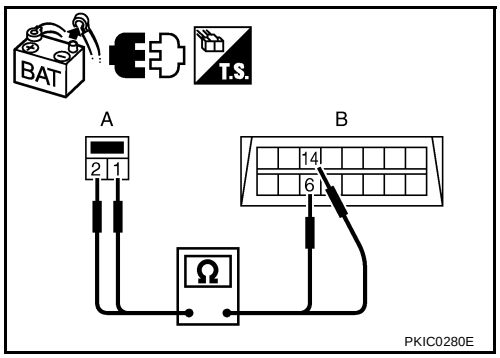
PKIC0279E

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

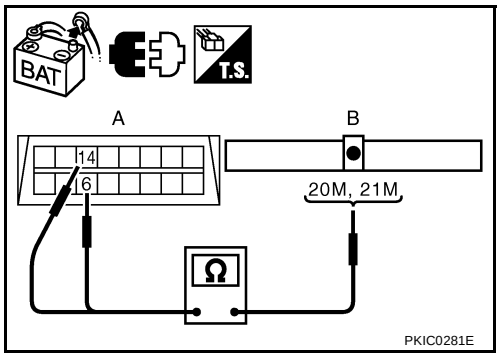
OK or NG

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

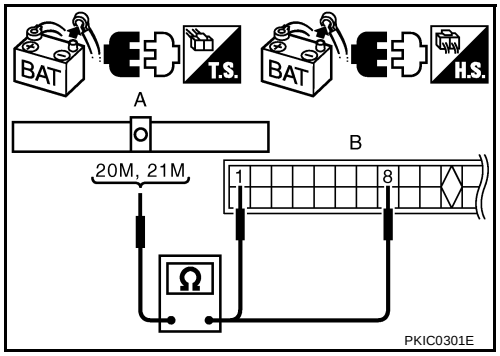
OK or NG

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.

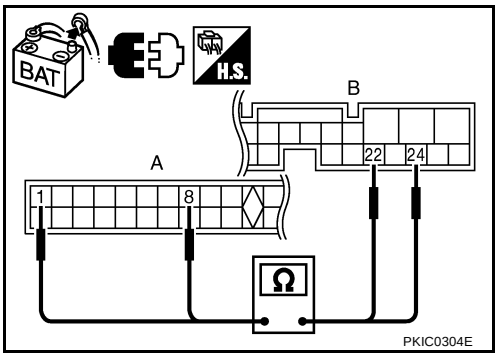
Inspection Between RAS Control Unit and Pre-Crash Seat Belt Control Unit Circuit

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.

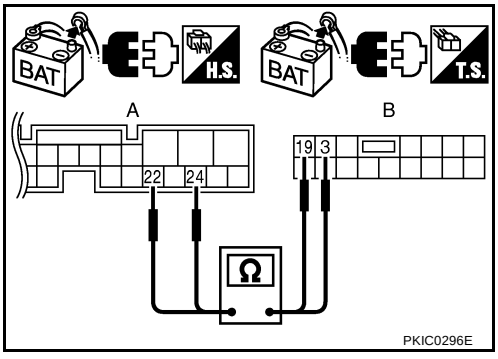
Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

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.

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).

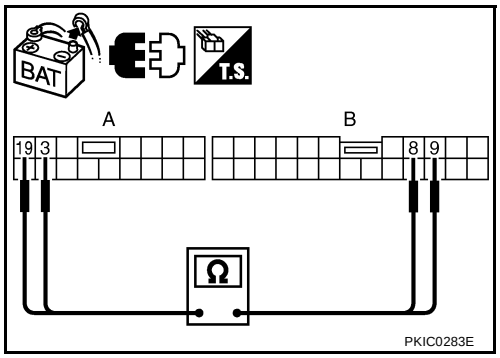
- Harness connector B3
- Harness connector E105

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).



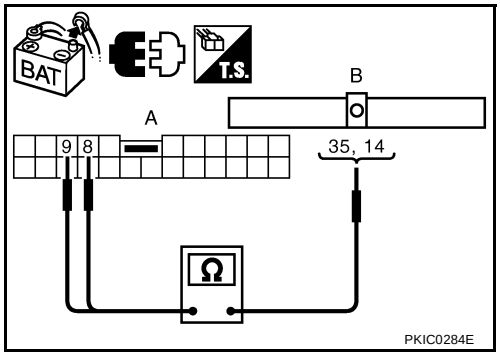
A		B		Continuity
Connector	Terminal	Connector	Terminal	
B15	3	B3	9	Yes
	19		8	Yes

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).

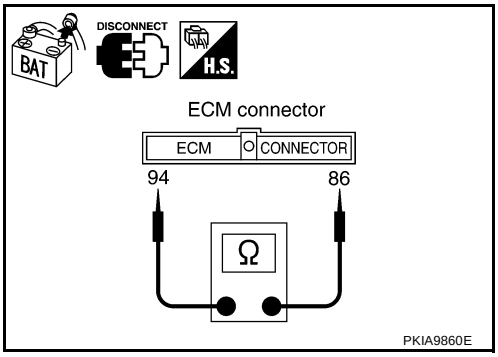
OK or NG

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.

TCM Circuit Inspection

NKS0043I

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

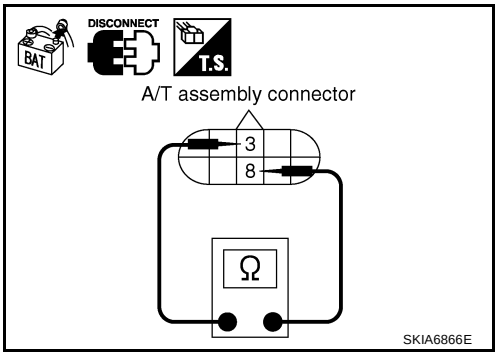
OK or NG

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

NKS0043J

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

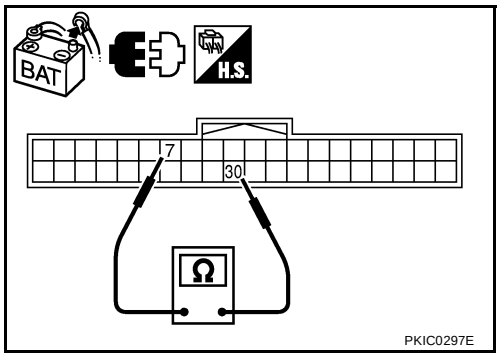
OK or NG

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

NKS0043K

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).

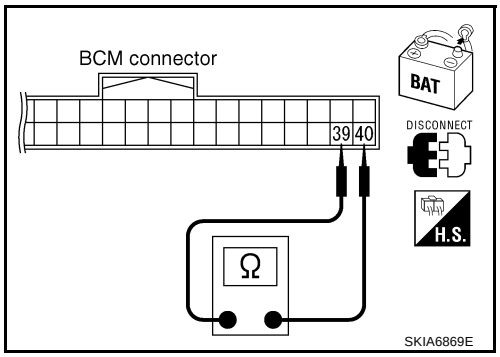
OK or NG

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

NKS0043L

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).

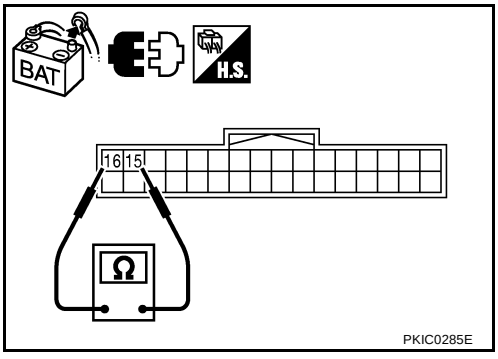
OK or NG

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

NKS0043M

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).

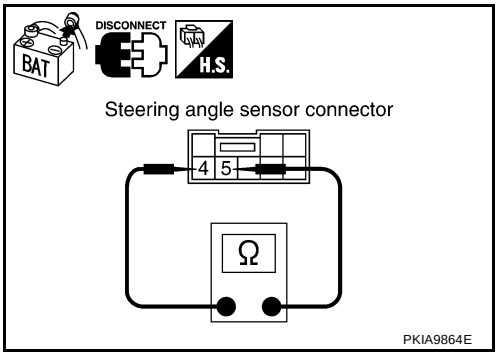
OK or NG

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

NKS0043N

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).

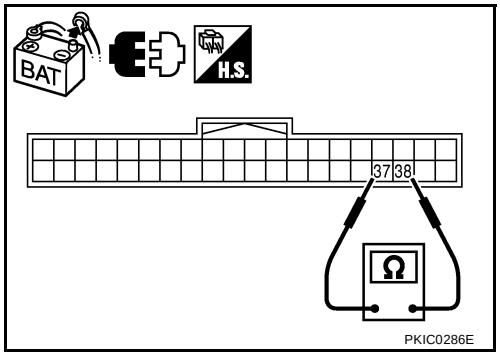
OK or NG

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

NKS0043O

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).

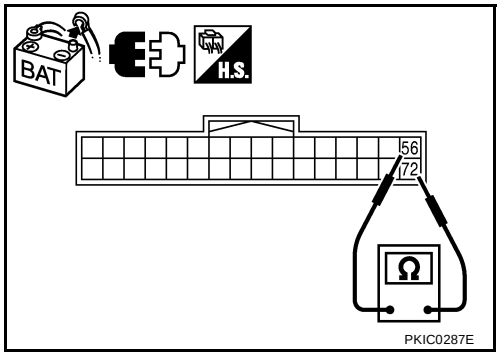
OK or NG

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

NKS0043P

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

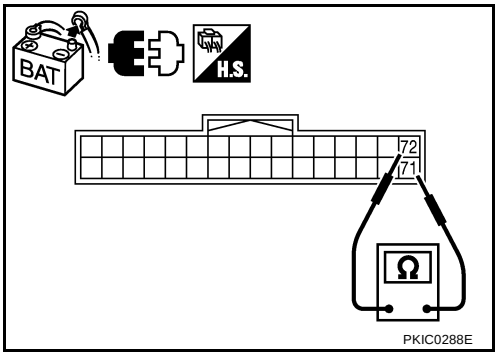
OK or NG

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



PKIC0288E

OK or NG

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

Data Link Connector Circuit Inspection

NKS0043Q

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).

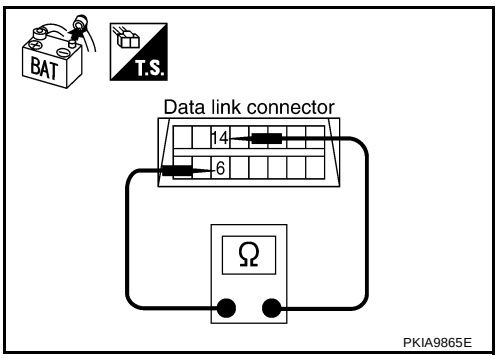
OK or NG

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



PKIA9865E

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

NKS0043R

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).

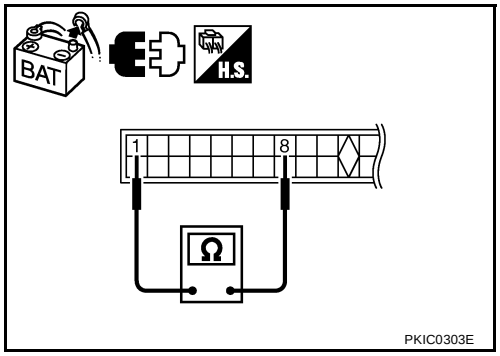
OK or NG

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

NKS0043S

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).

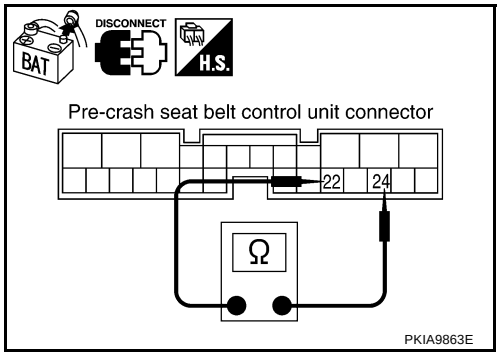
OK or NG

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

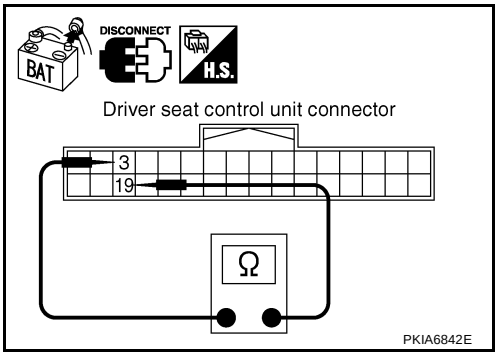
OK or NG

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).

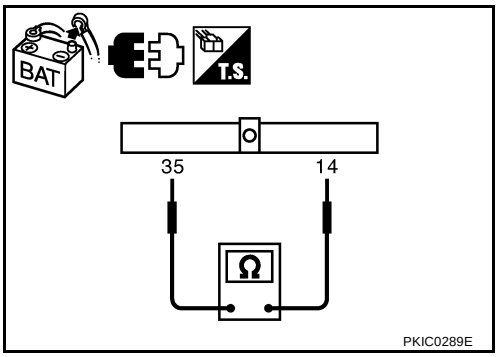
OK or NG

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

NKS0043V

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).

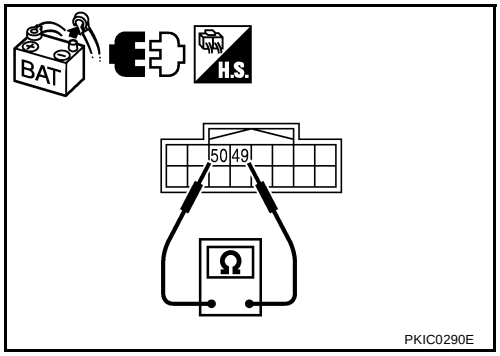
OK or NG

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

NKS0043W

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

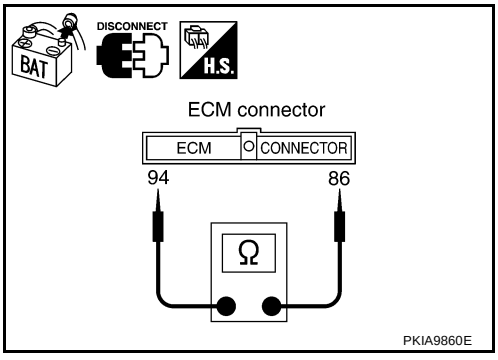
2. Check continuity between ECM harness connector terminals.

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.

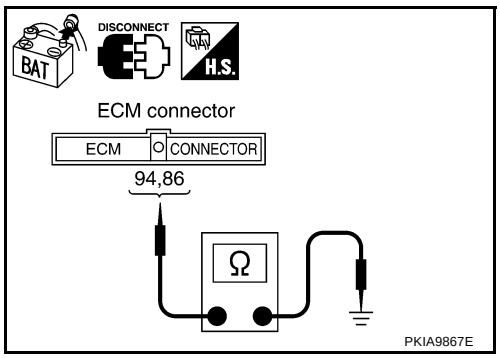
- Harness between ECM and harness connector M72
- Harness between ECM and BCM
- Harness between ECM and harness connector M61



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.

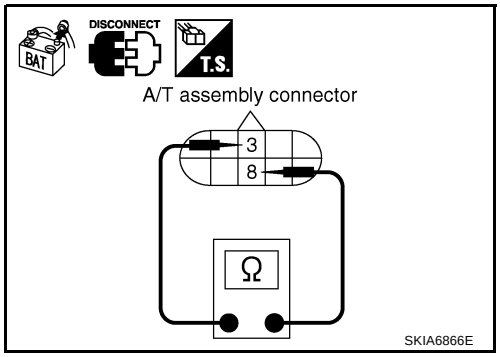
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

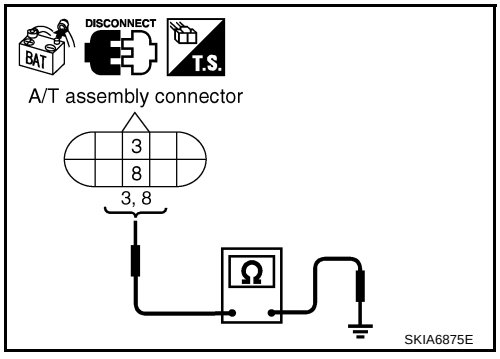
OK >> GO TO 5.

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



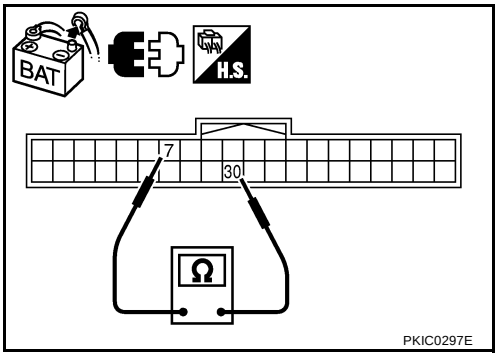
OK or NG

OK >> GO TO 6.

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

6. CHECK HARNESS FOR SHORT CIRCUIT

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



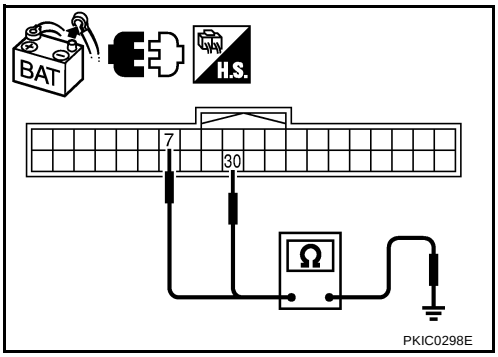
AFS control unit connector	Terminal		Continuity
F110	30	7	No

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

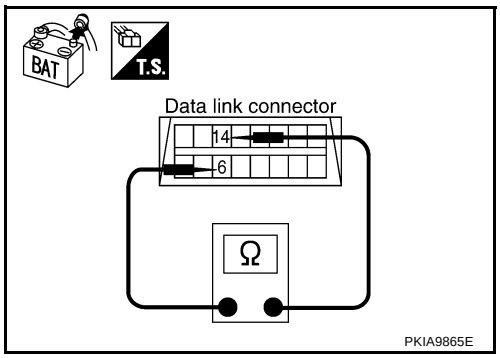
OK or NG

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

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

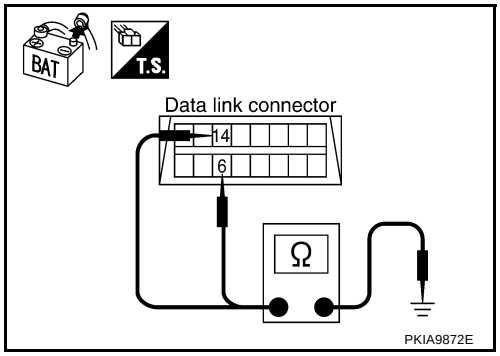
OK >> GO TO 9.

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

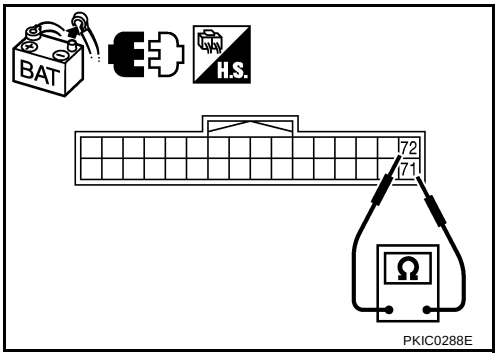
OK >> GO TO 10.

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

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



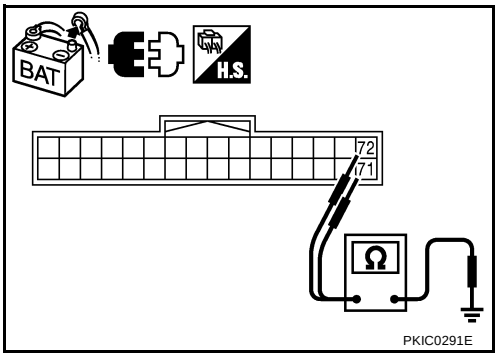
OK or NG

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

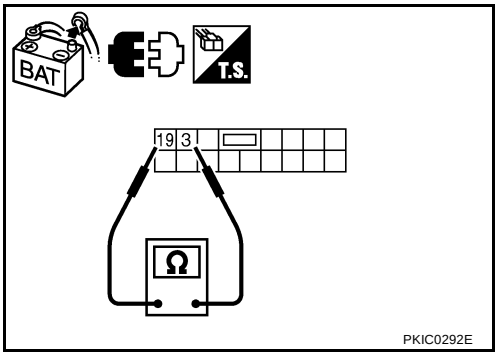
OK >> GO TO 12.
NG >> Repair harness between NAVI control unit and harness connector M216.

12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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



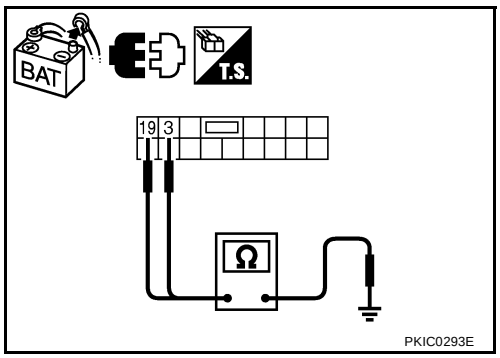
OK or NG

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

13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No



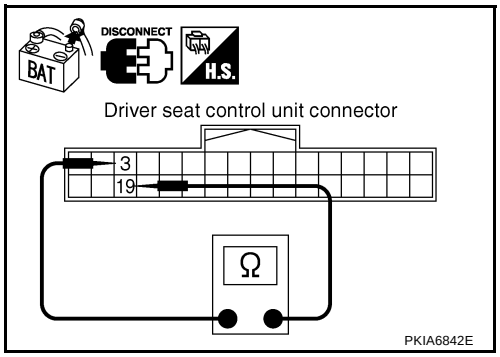
OK or NG

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



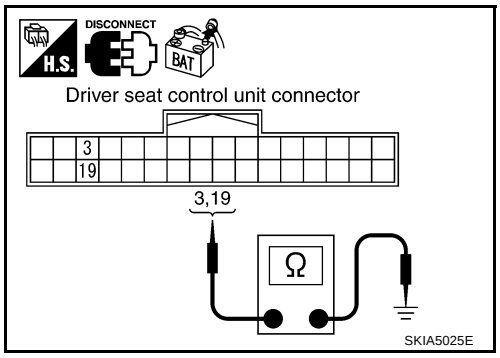
OK or NG

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



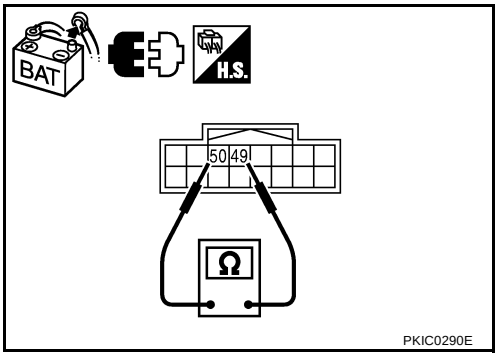
OK or NG

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

16. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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.

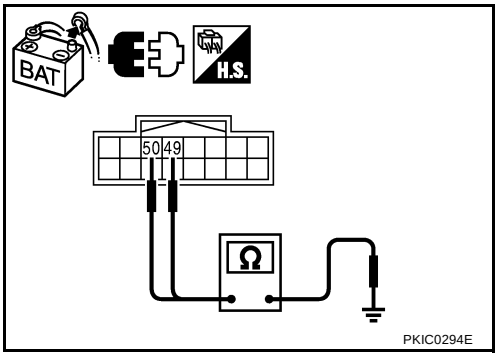
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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)

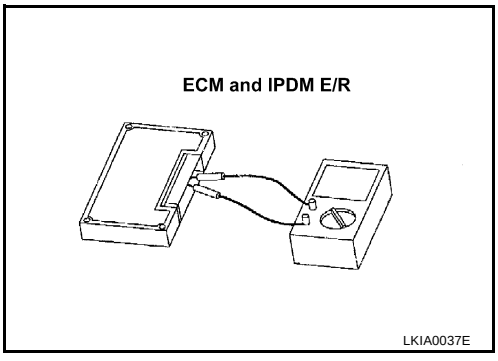
18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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.

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”" .

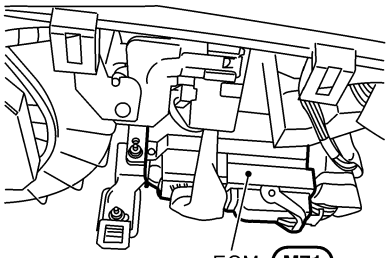
CAN SYSTEM (TYPE 10)

PFP:23710

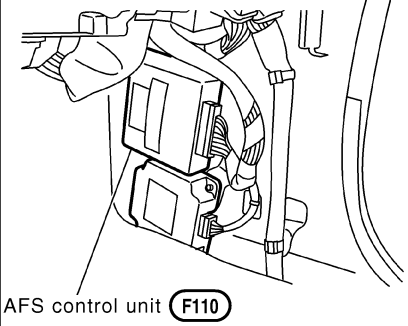
Component Parts and Harness Connector Location

NKS0043Y

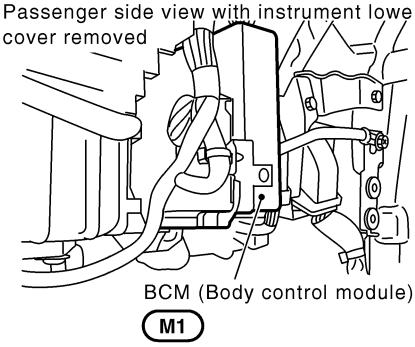
Passenger side view with instrument lower cover removed

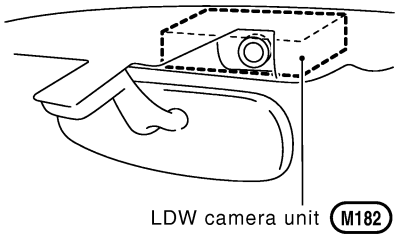


Behind dash side lower RH finisher

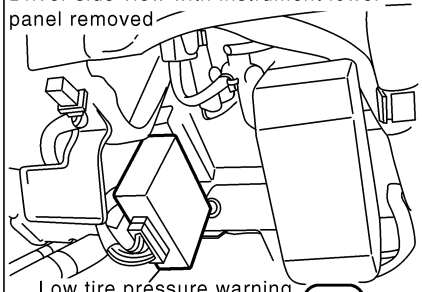


Passenger side view with instrument lower cover removed

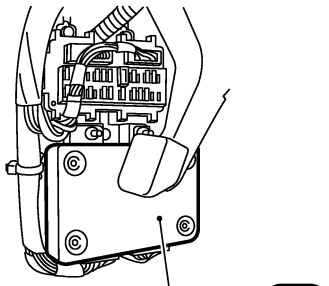




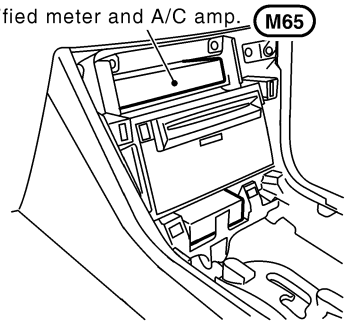
Driver side view with instrument lower panel removed



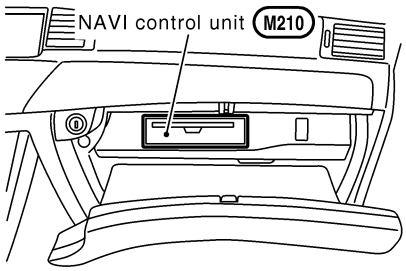
Behind dash side lower LH finisher



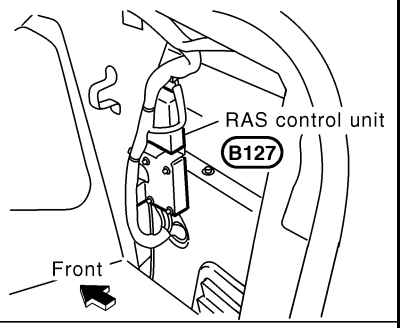
View with cluster lid C removed
Unified meter and A/C amp.
M65



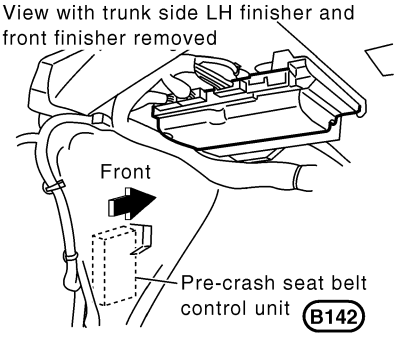
Inside of glove box



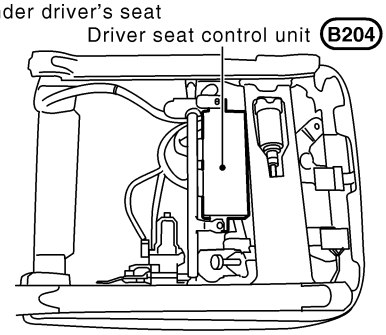
View with trunk side RH finisher removed



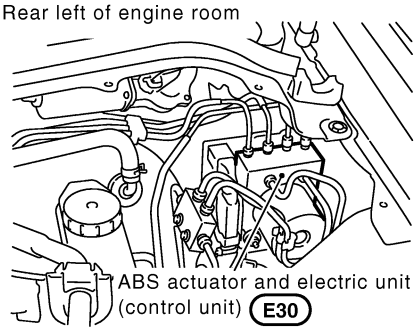
View with trunk side LH finisher and front finisher removed



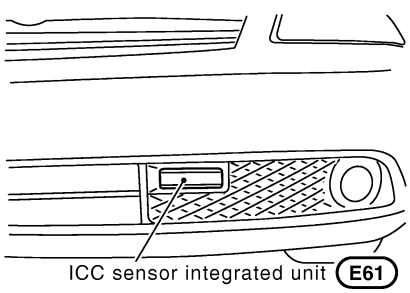
Under driver's seat



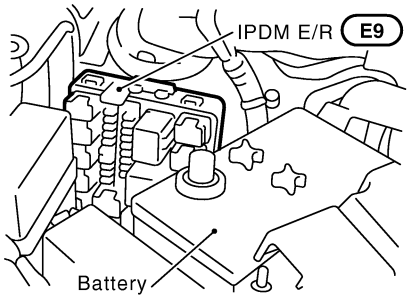
Rear left of engine room



Bumper LH



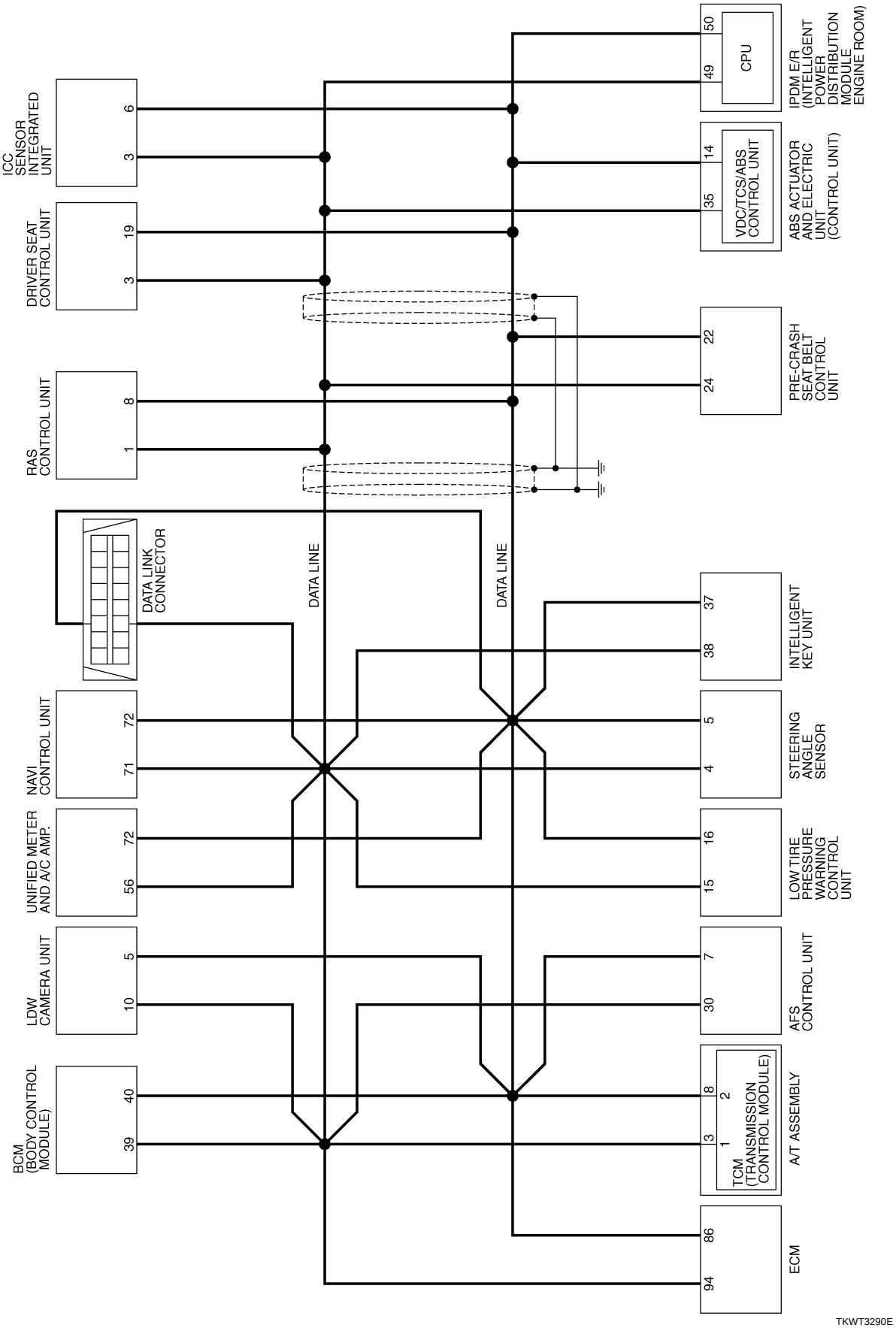
View with cowl top cover removed



PKIC0608E

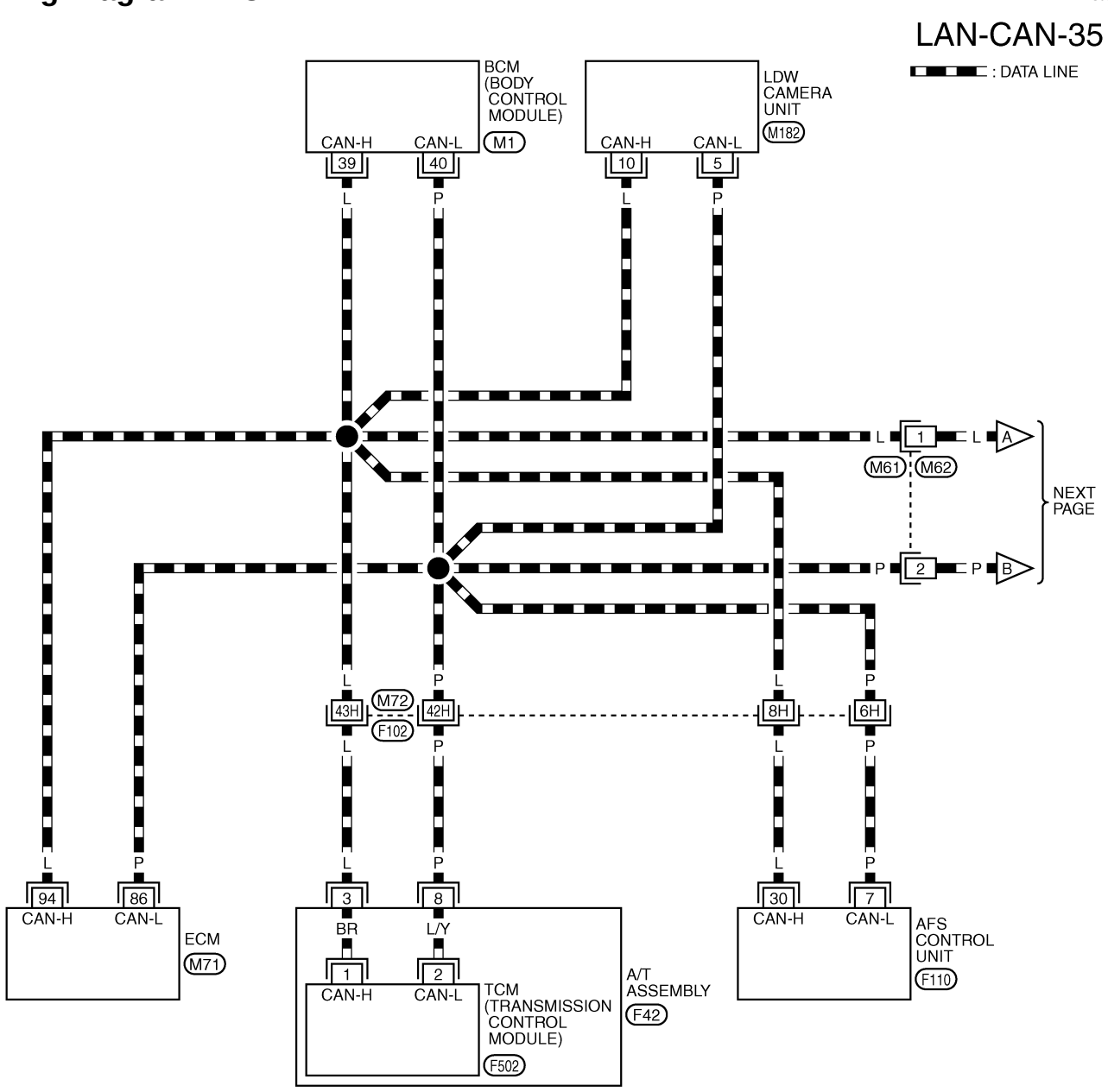
Schematic

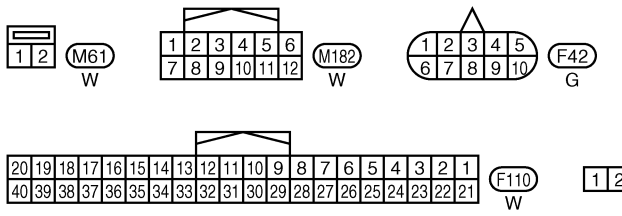
NKS0043Z



Wiring Diagram — CAN —

NKS00440





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

REFER TO THE FOLLOWING.

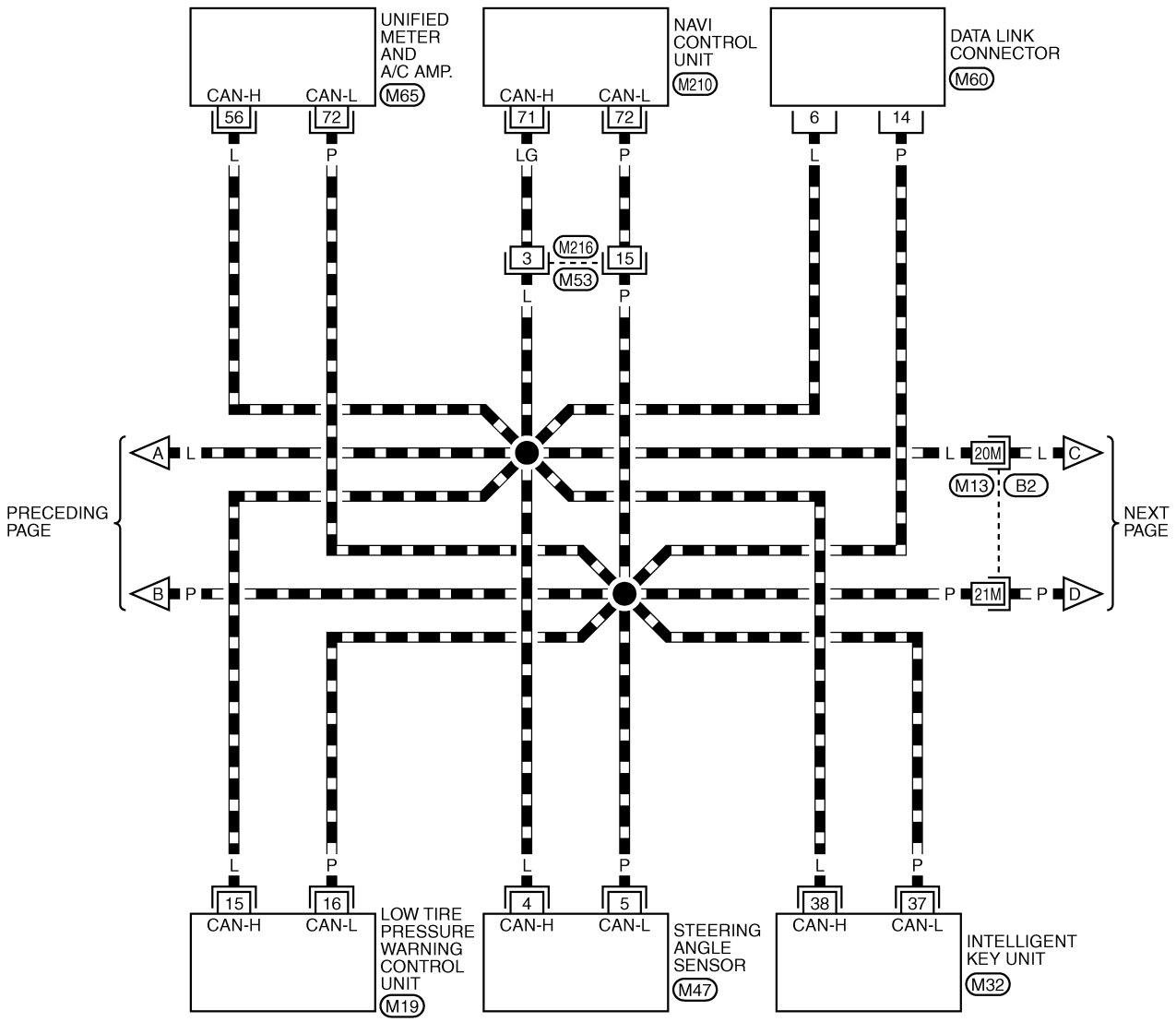
F102 -SUPER MULTIPLE JUNCTION (SMJ)

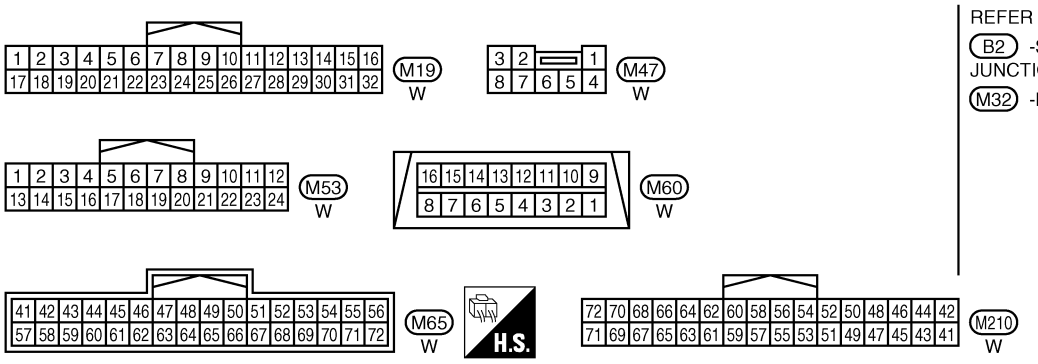
M1 , M71 -ELECTRICAL UNITS

TKWT3291E

LAN-CAN-36

: DATA LINE





REFER TO THE FOLLOWING.

B2 -SUPER MULTIPLE JUNCTION (SMJ)

M32 -ELECTRICAL UNITS

TKWT3292E

LAN-CAN-37

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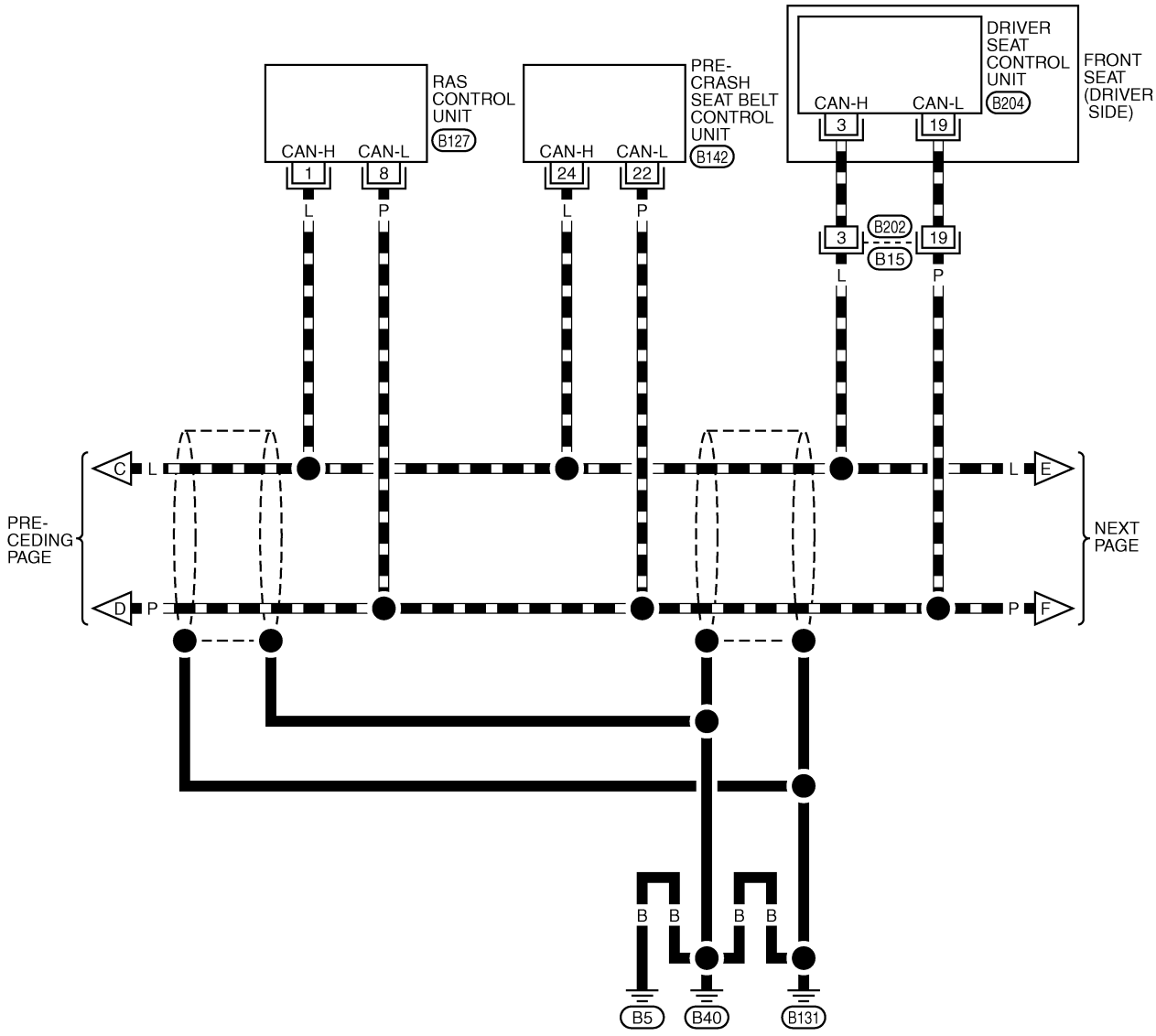
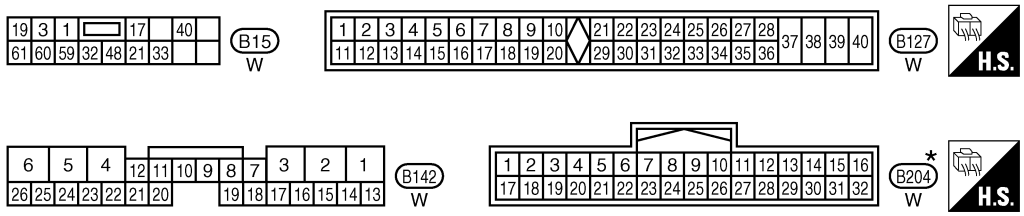


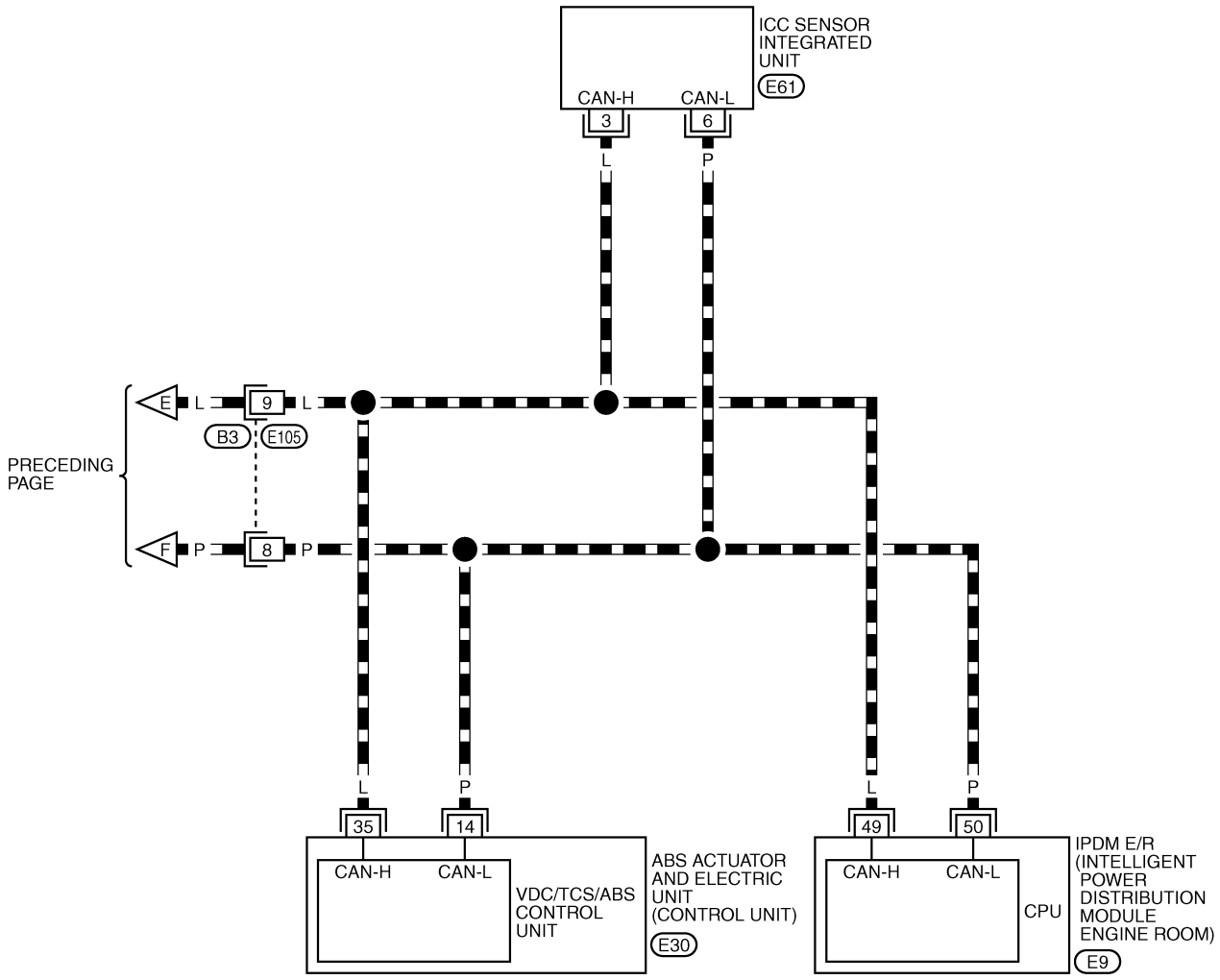


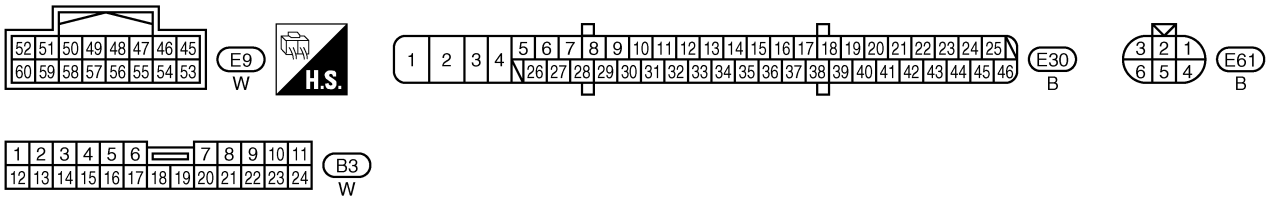
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3293E

LAN-CAN-38

: DATA LINE





TKWT3294E

Check Sheet

NKS00441

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	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 :

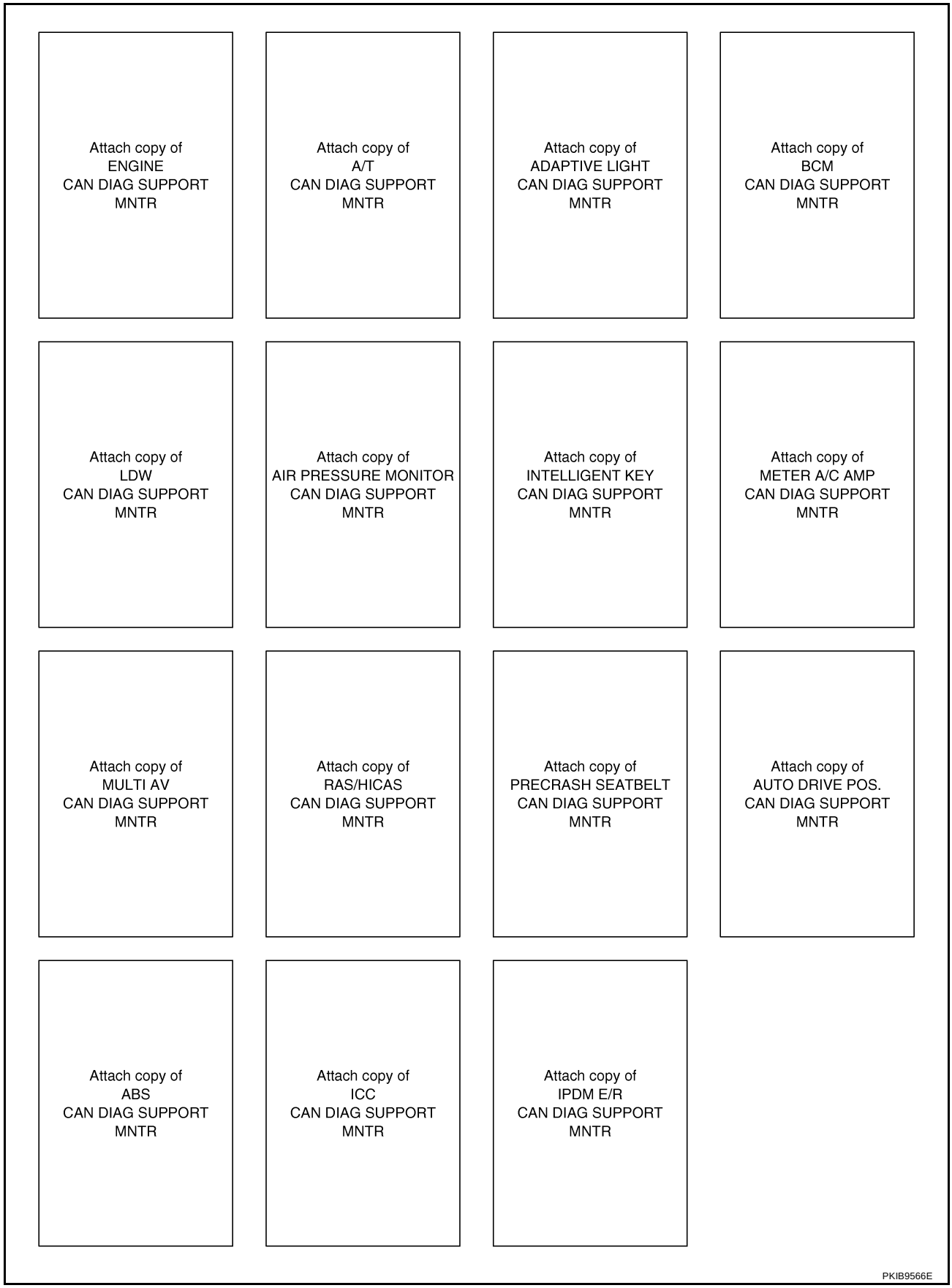
Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIB8492E

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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ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
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BCM
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ICC
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IPDM E/R
CAN DIAG SUPPORT
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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: 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	SELF-DIAG RESULTS	
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	—	—	—	—	—	—	—
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)	—

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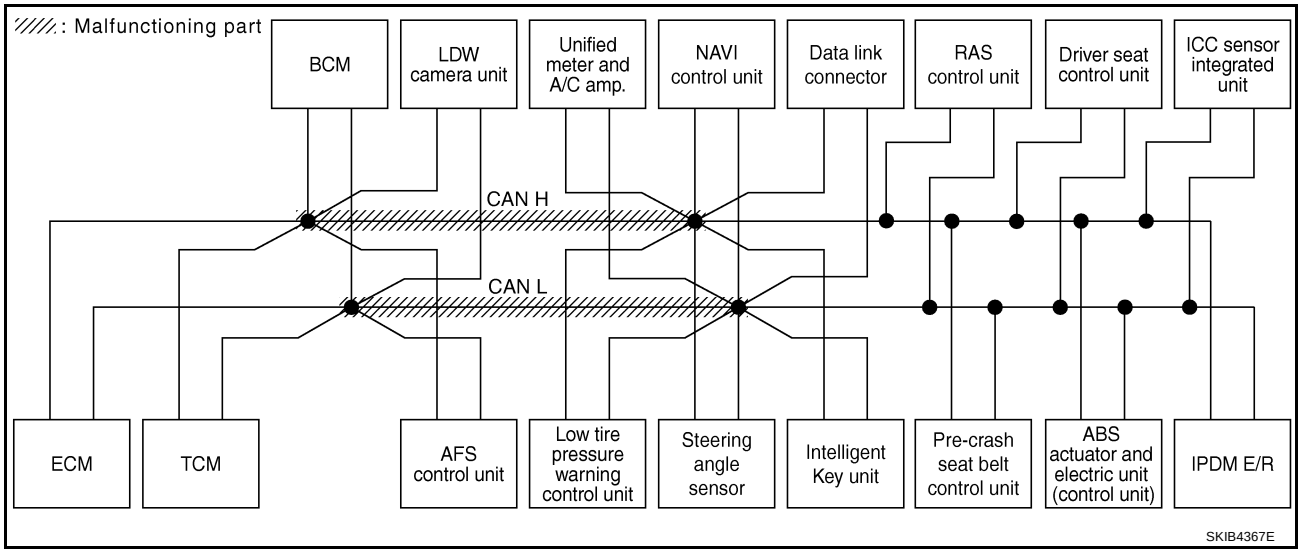

Case 2

Check harness between data link connector and RAS control unit. Refer to LAN-501, "Inspection Between Data Link Connector and RAS Control Unit Circuit" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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	—	—	—	—	—	—	—
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)	—

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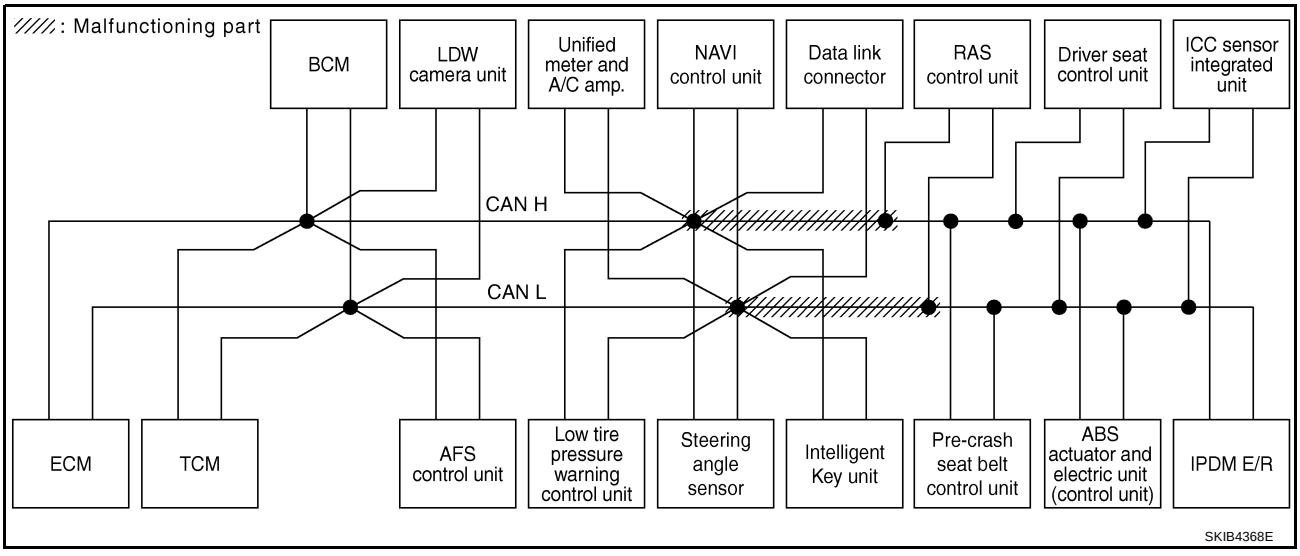

SKIB4368E

Case 3

Check harness between RAS control unit and pre-crash seat belt control unit. Refer to LAN-502, "Inspection Between RAS Control Unit and Pre-Crash Seat Belt Control Unit Circuit" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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	—	—	—	—	—	—	—
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)	—

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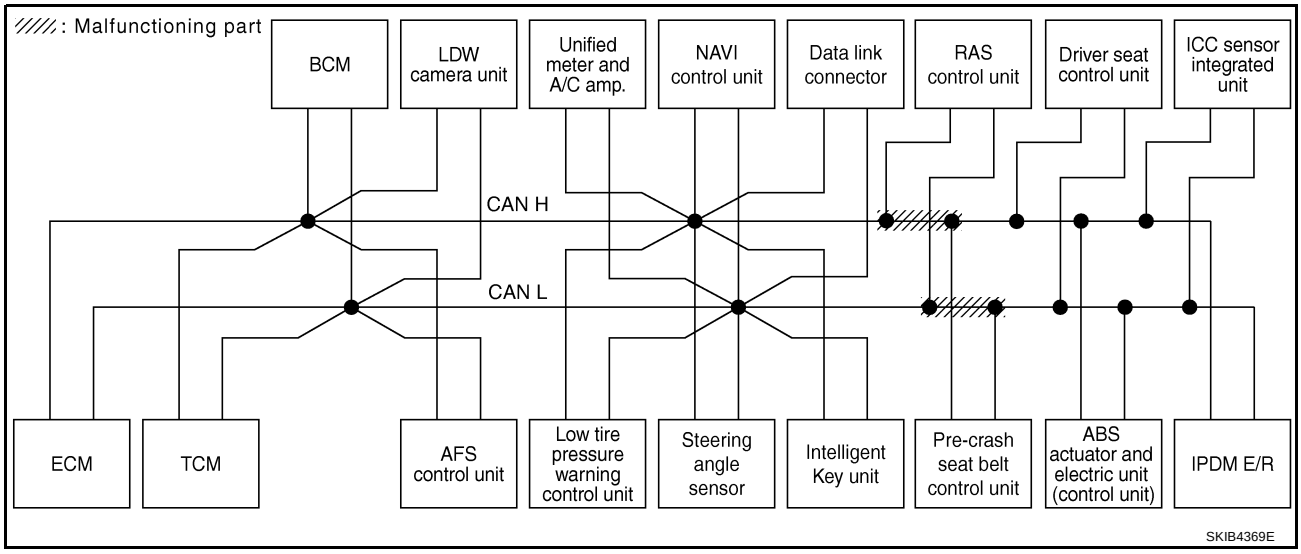


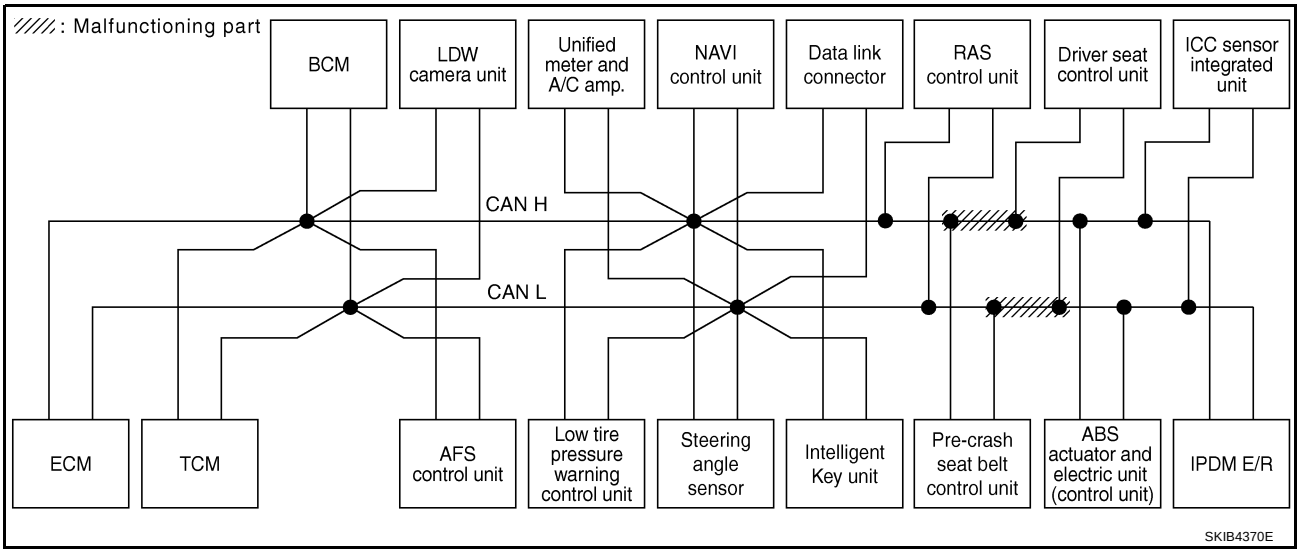
SKIB4369E

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: 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	SELF-DIAG RESULTS	
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	—	—	—	—	—	—	—
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



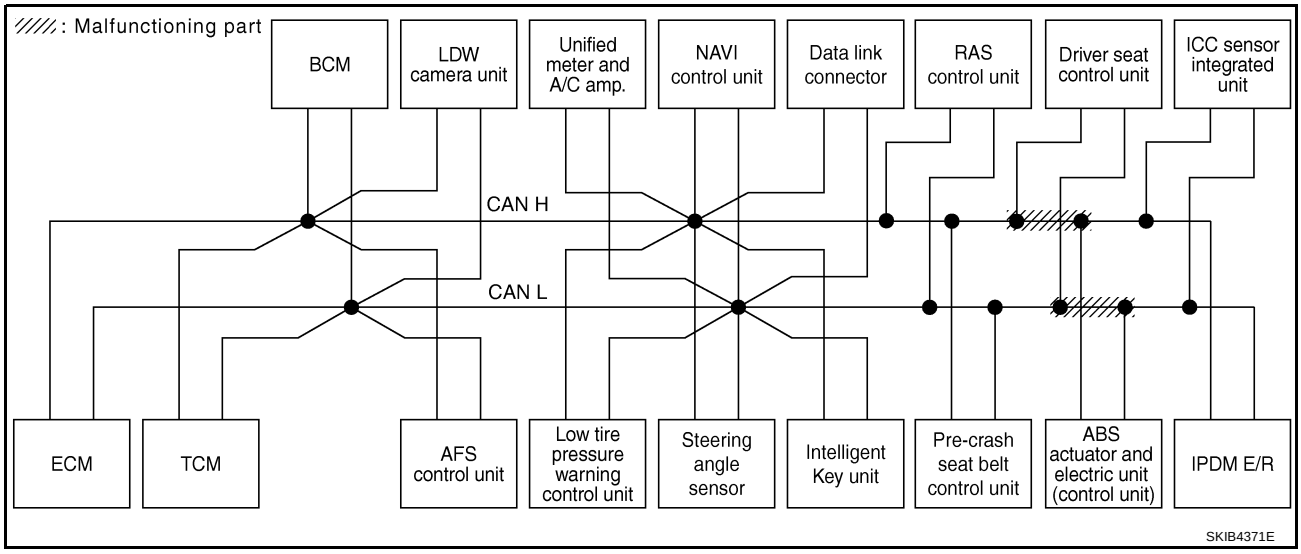
SKIB4370E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8497E

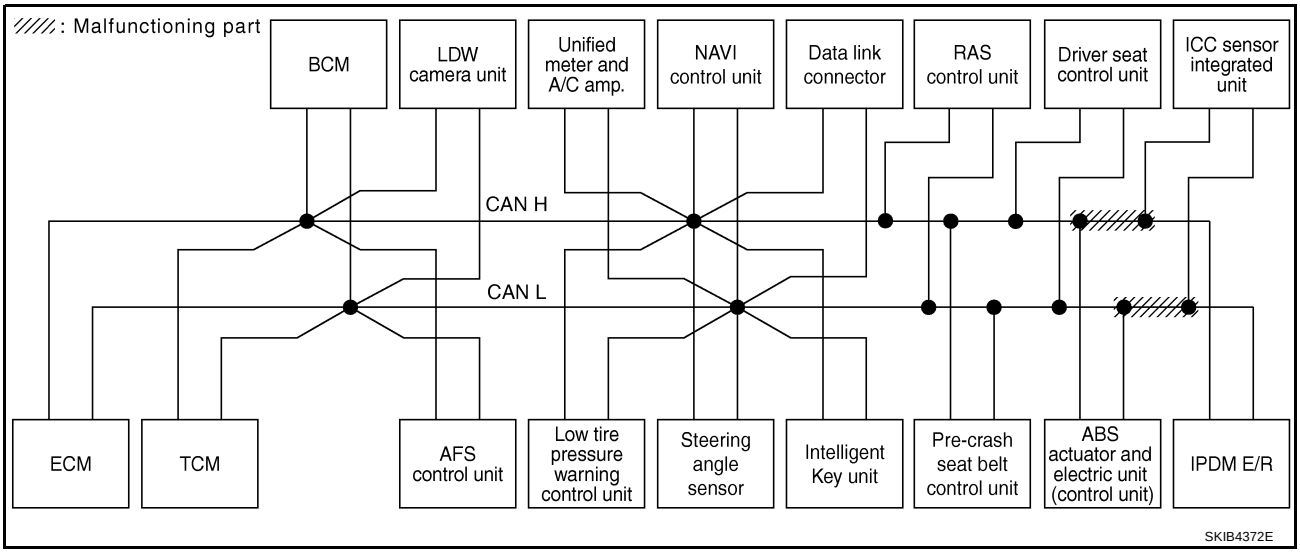


Case 6

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" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

PKIB8498E



SKIB4372E

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														
				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)	—

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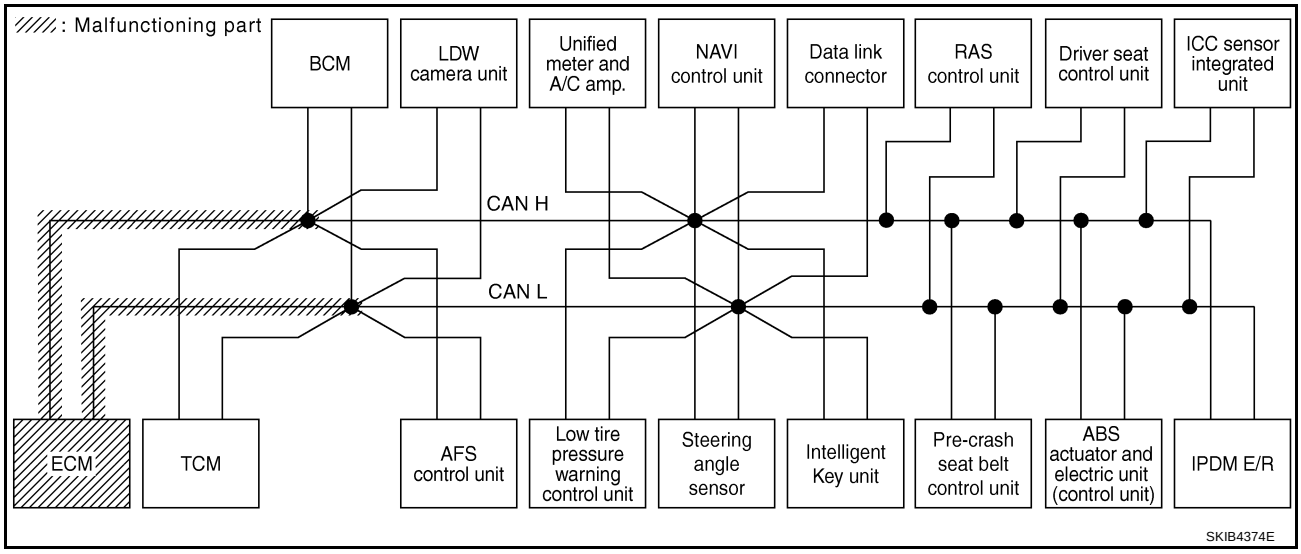

SKIB4374E

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														
				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)	—

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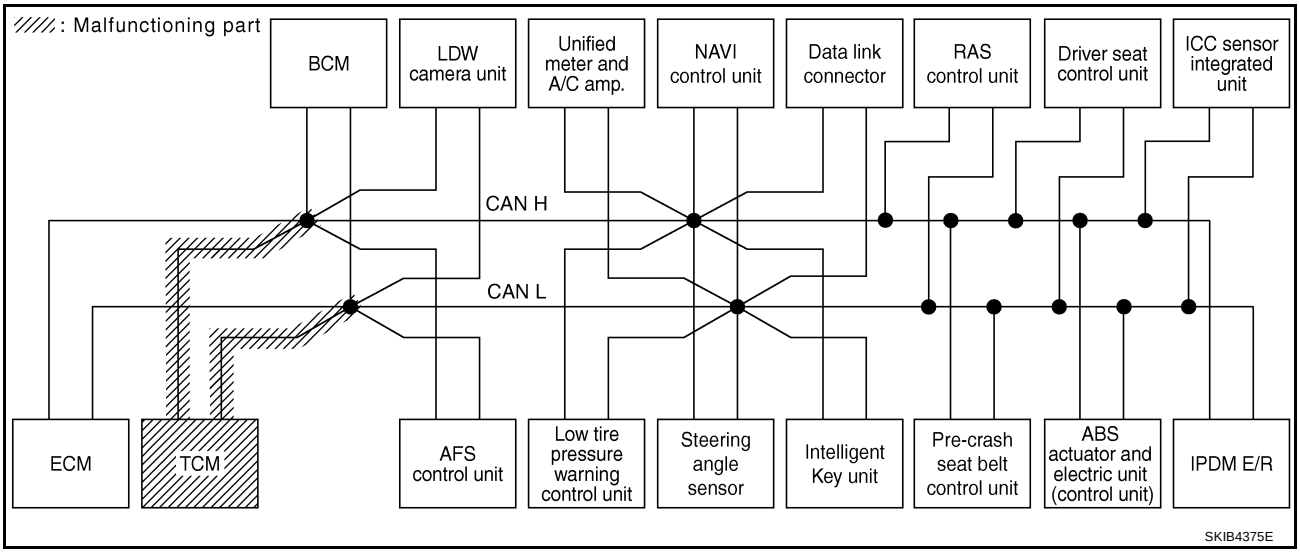

Case 9

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)	—

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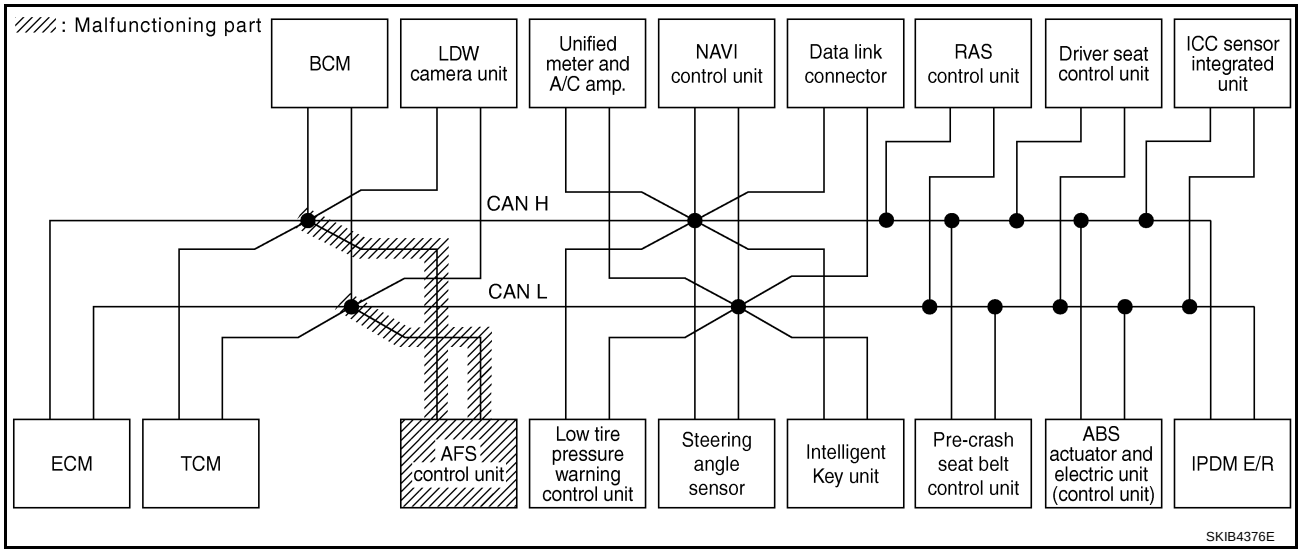
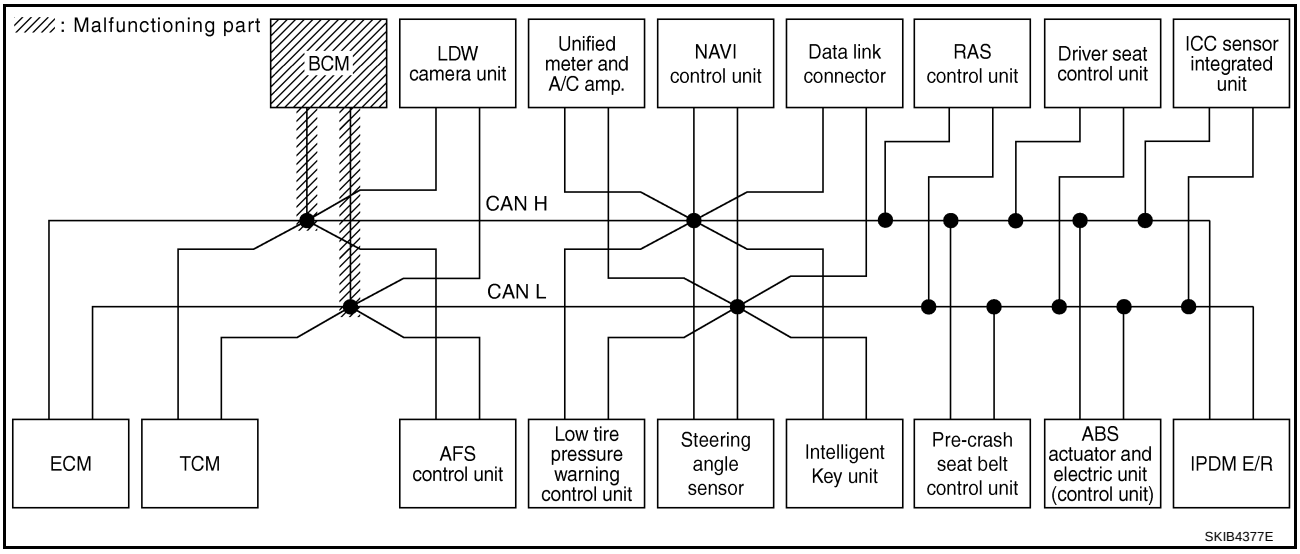


Case 10

Check BCM circuit. Refer to LAN-506, "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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	—	—	—	—	—	—	—
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)	—

PKIB8502E



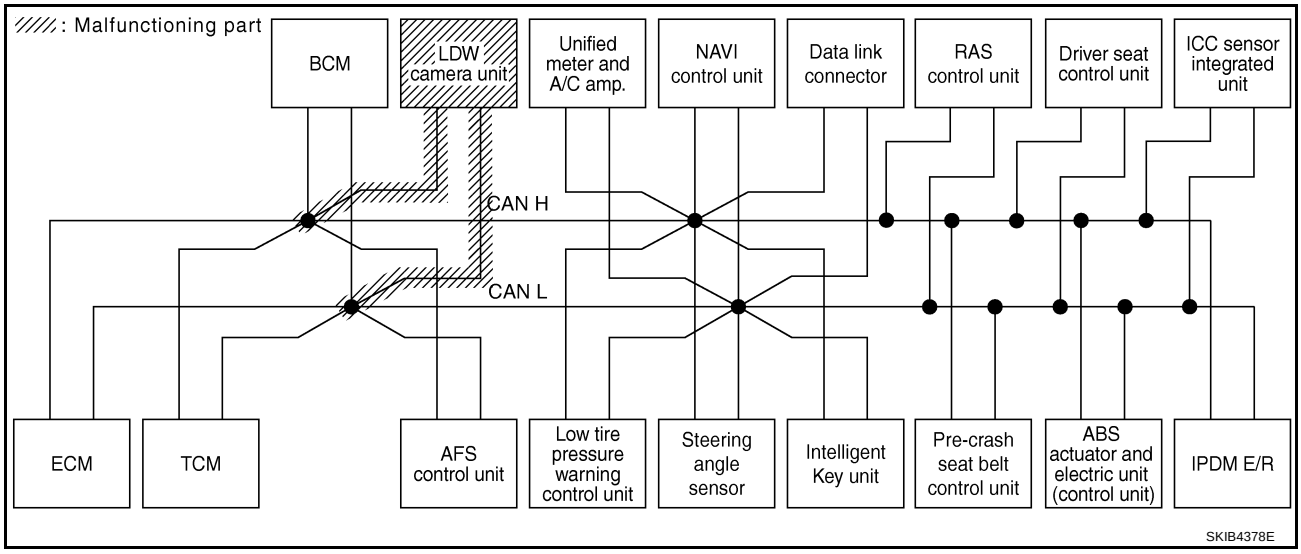
SKIB4377E

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

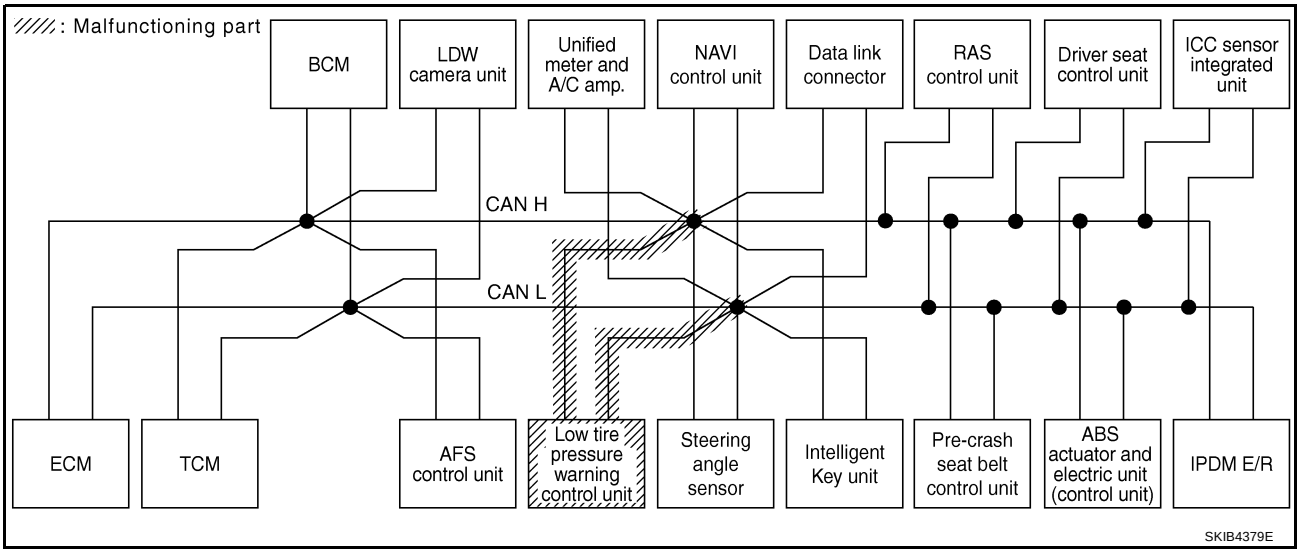


Case 12

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8504E



SKIB4379E

Case 13

Check steering angle sensor circuit. Refer to LAN-507, "Steering Angle Sensor Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

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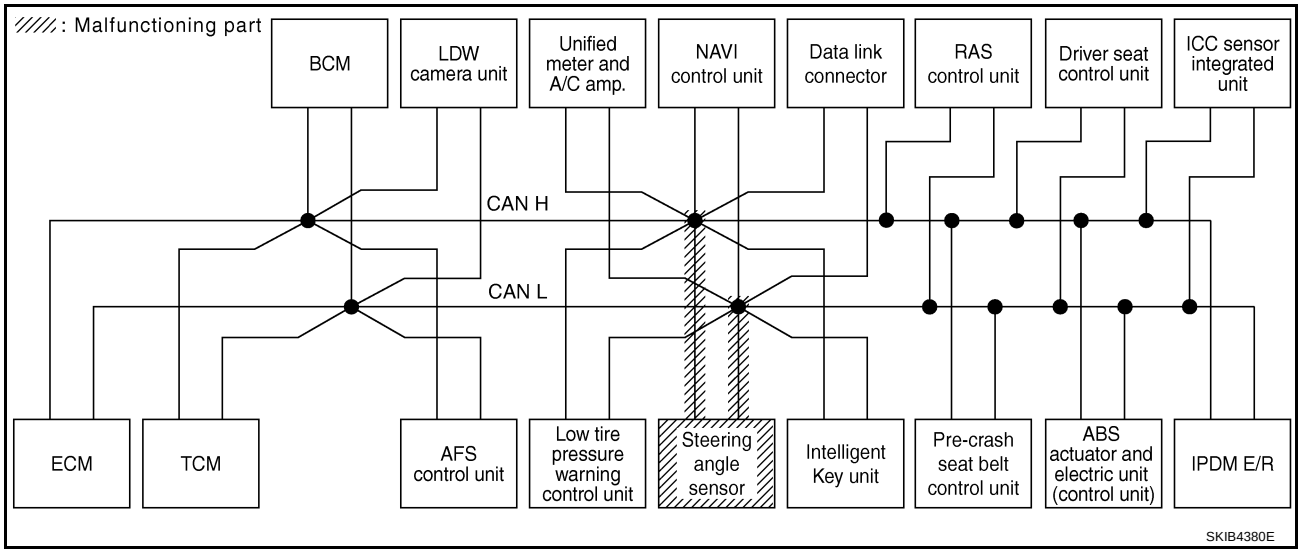

SKIB4380E

Case 14

Check Intelligent Key unit circuit. Refer to LAN-508, "Intelligent Key Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

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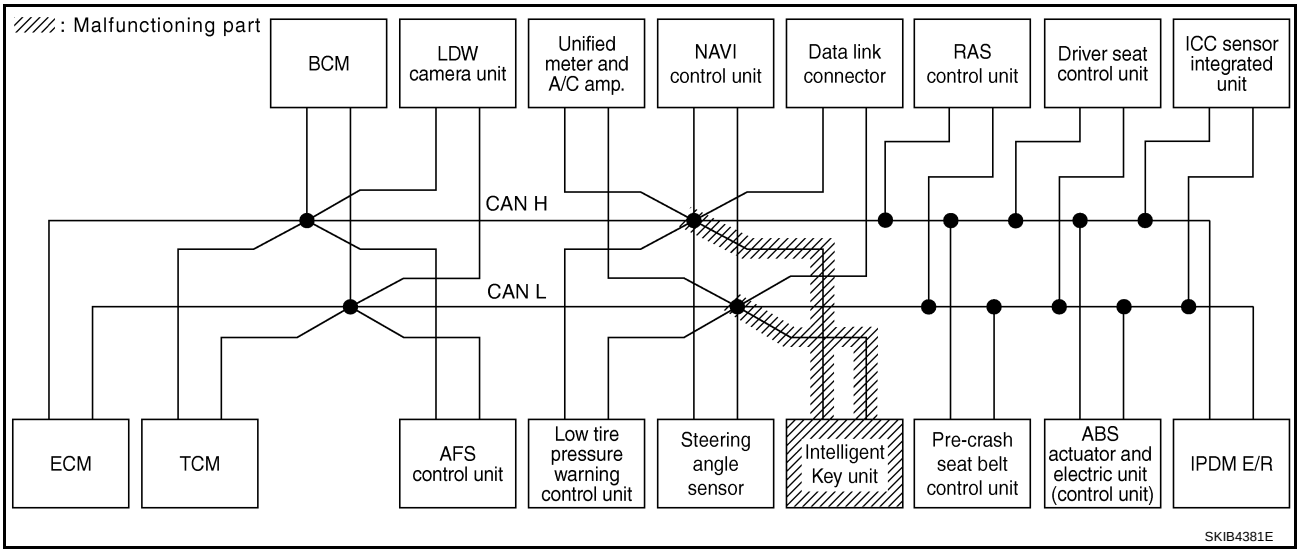
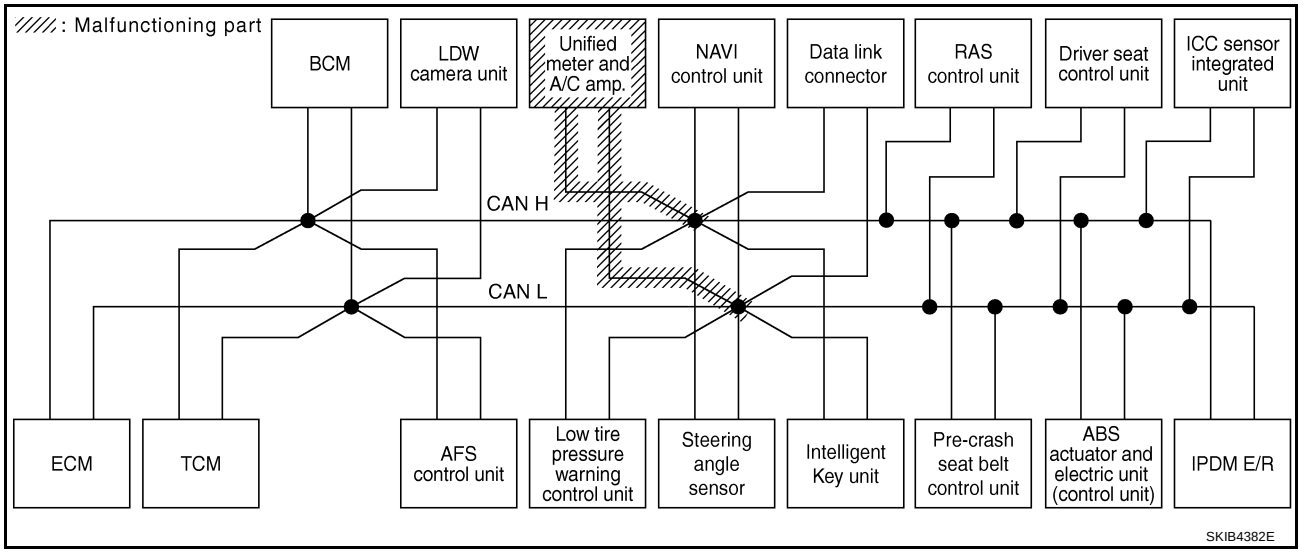


Case 15

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8507E



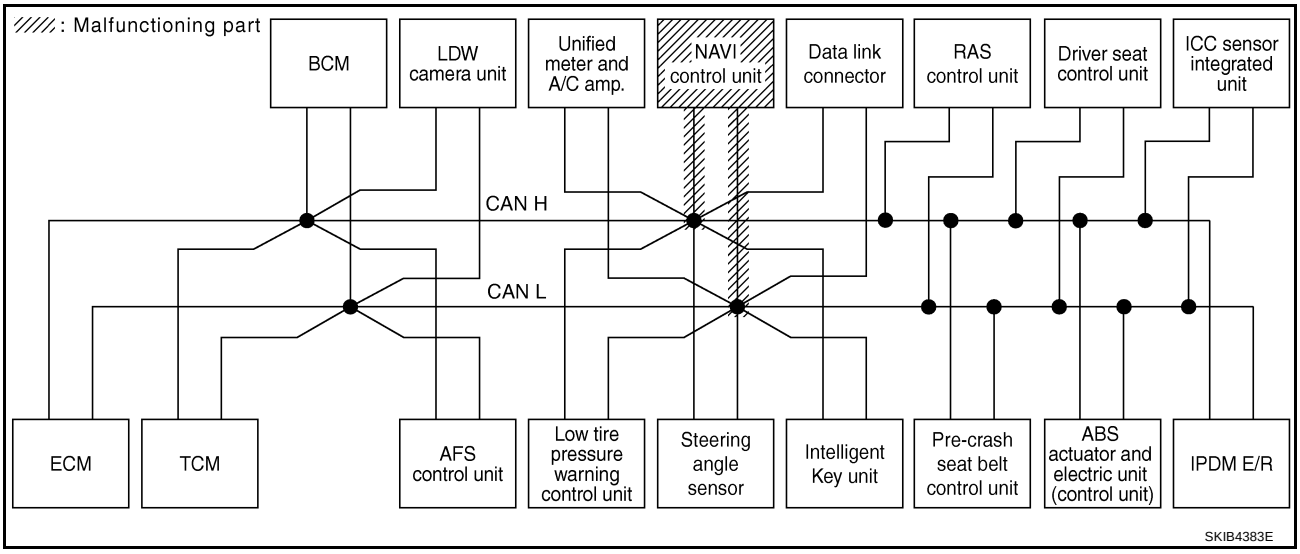
SKIB4382E

Case 16

Check NAVI control unit circuit. Refer to LAN-509, "NAVI Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

PKIB8508E

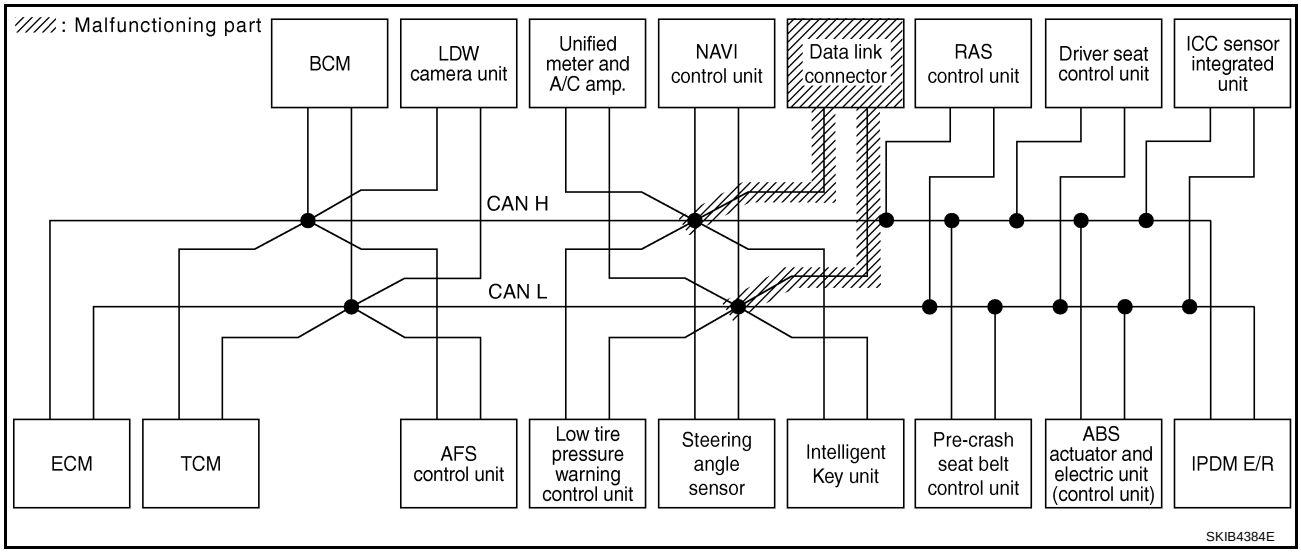


Case 17

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	—	—	—	—	—	—	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	—	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

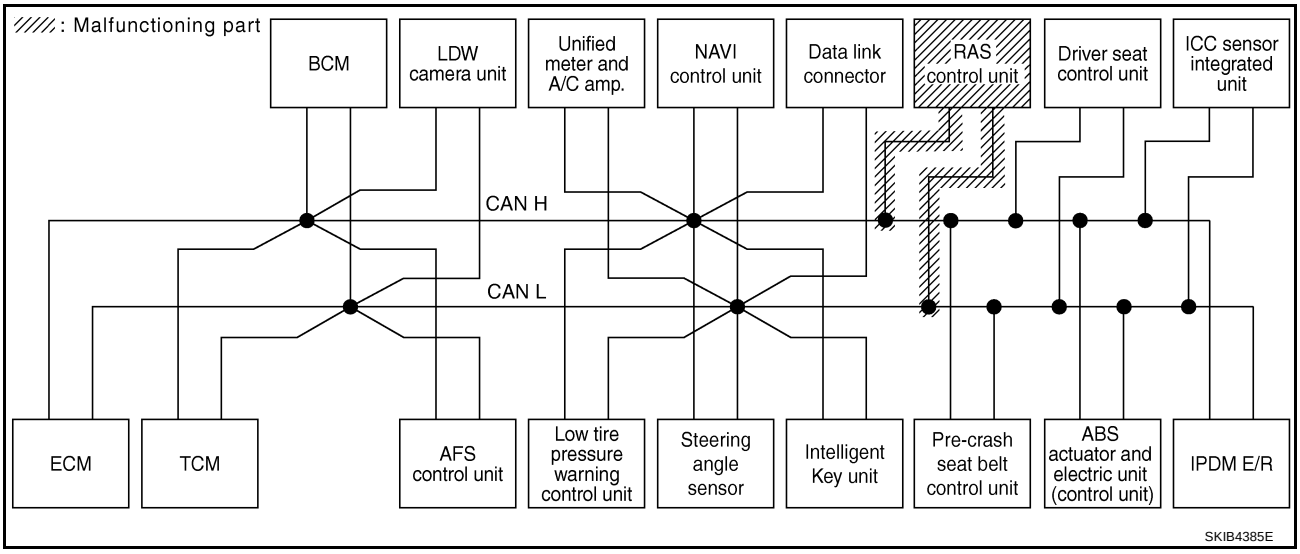


Case 18

Check RAS control unit circuit. Refer to LAN-510, "RAS Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

PKIB8510E

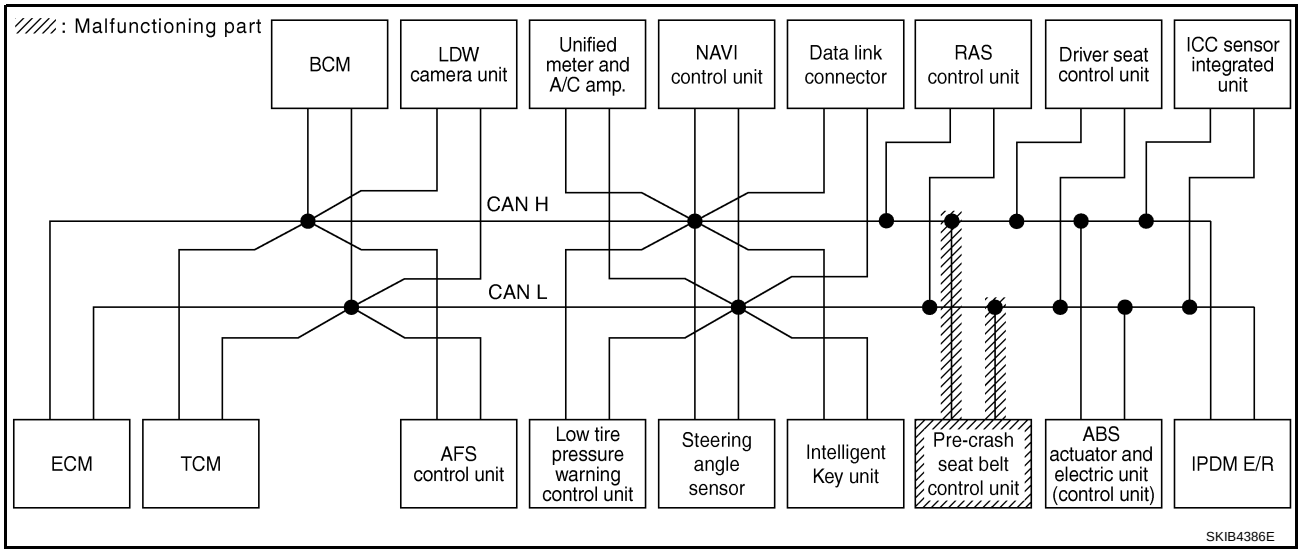


Case 19

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														
				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)	—

PKIB8511E



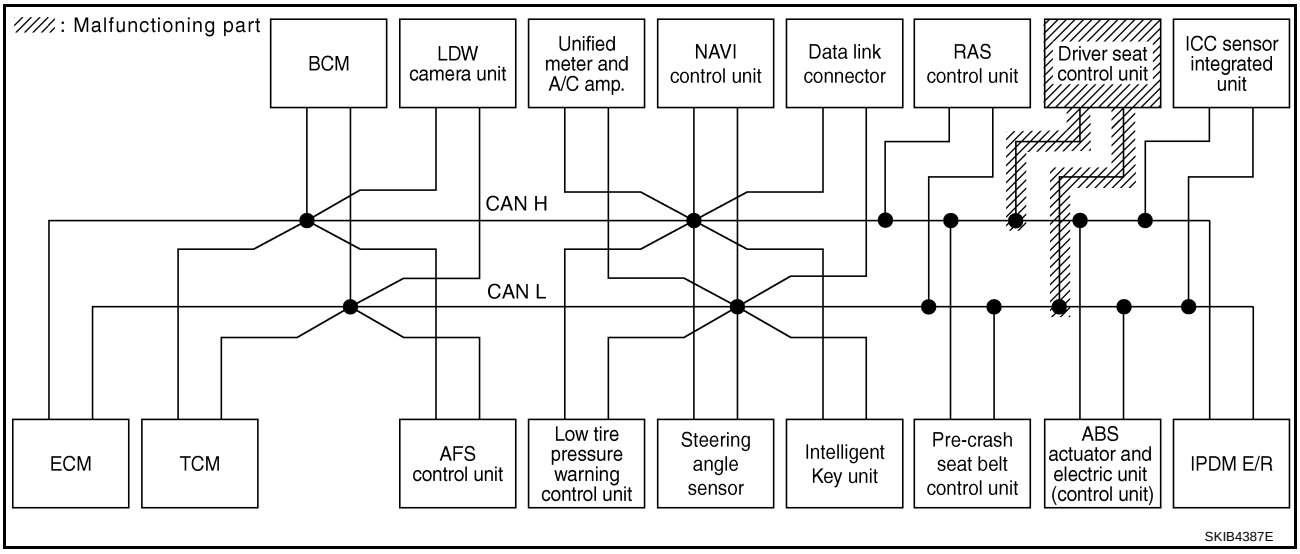
SKIB4386E

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	—	—	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	—	—	—	—	—	—	—
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)	—

PKIB8512E



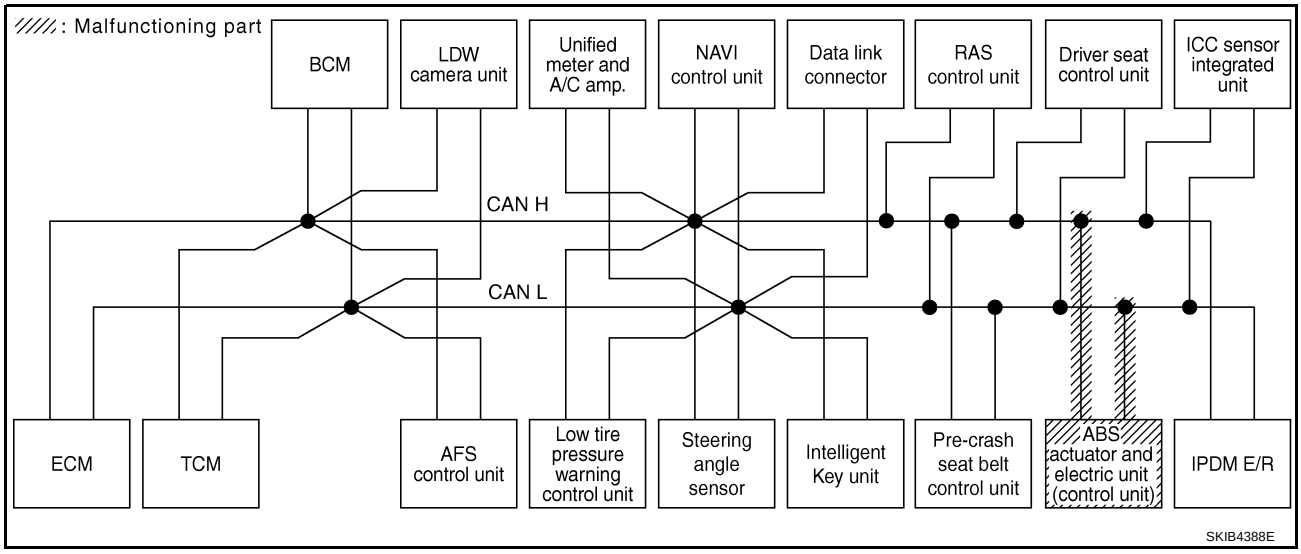
SKIB4387E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8513E



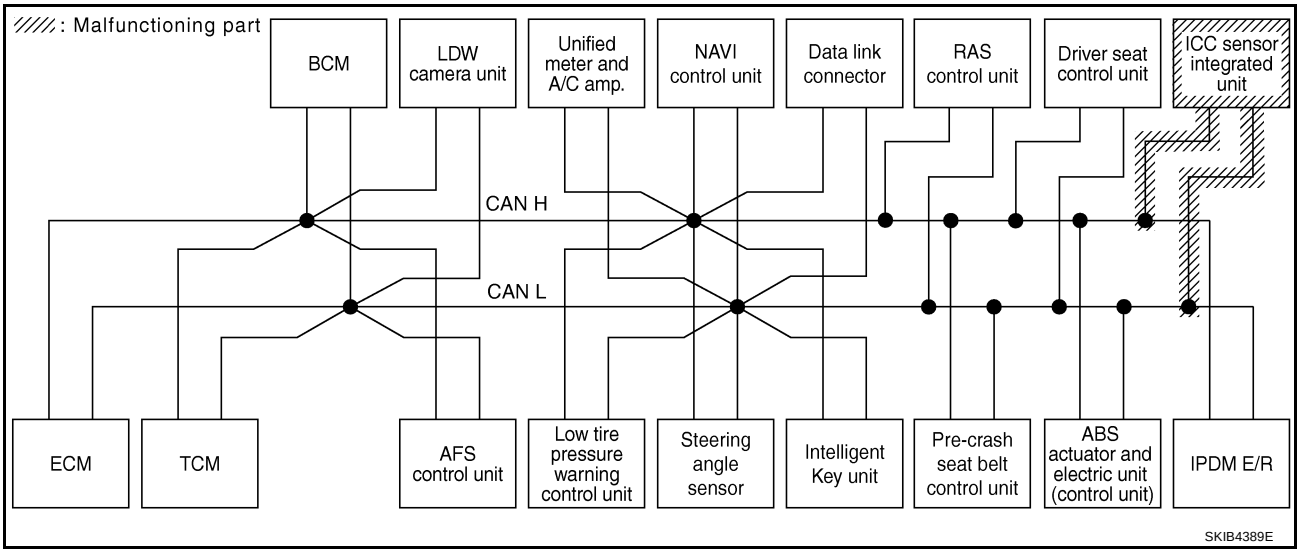
SKIB4388E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8514E



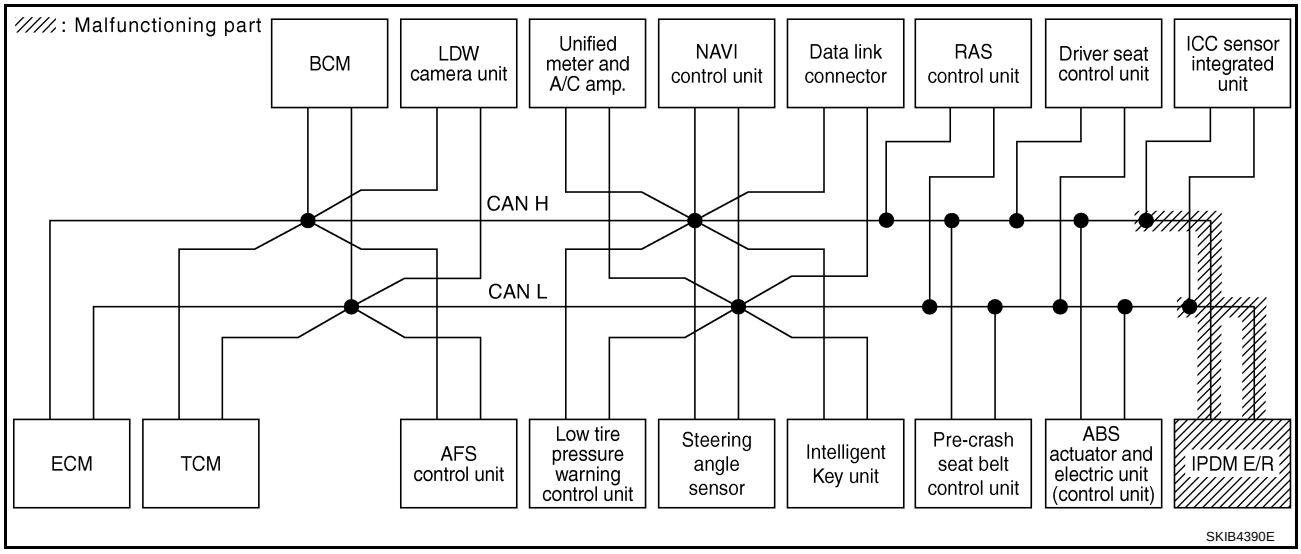
SKIB4389E

Case 23

Check IPDM E/R circuit. Refer to LAN-512, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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 24

Check CAN communication circuit. Refer to LAN-513, "CAN Communication Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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	—	—	—	—
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)	—

PKIB8516E

Case 25

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-520, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

PKIB8517E

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: 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	SELF-DIAG RESULTS	
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	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

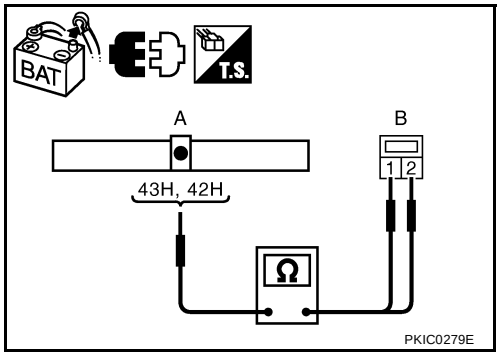
OK or NG

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



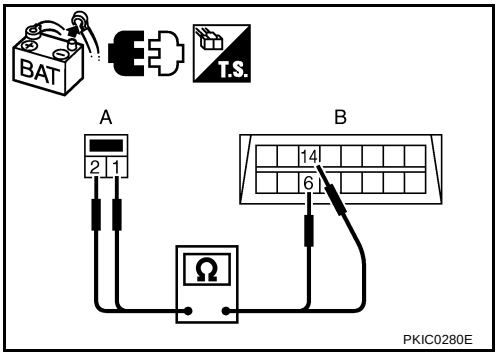
PKIC0279E

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

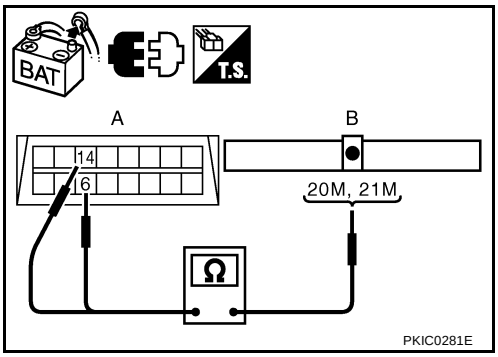
OK or NG

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

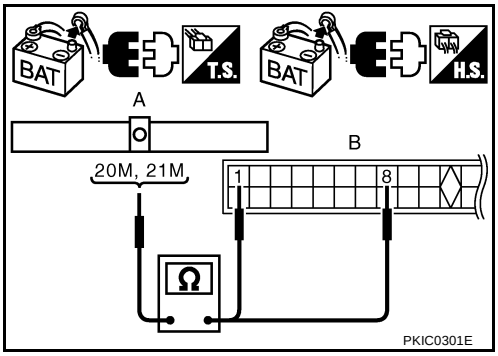
OK or NG

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.

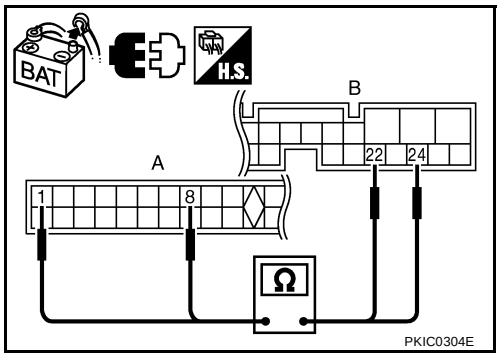
Inspection Between RAS Control Unit and Pre-Crash Seat Belt Control Unit Circuit

NKS00444

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.

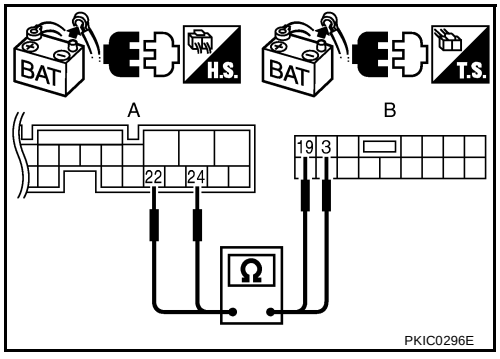
Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

NKS00445

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

NKS00446

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

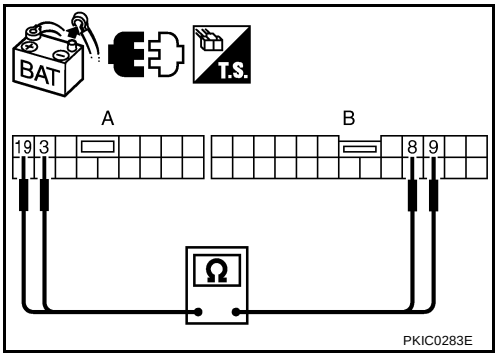
OK or NG

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



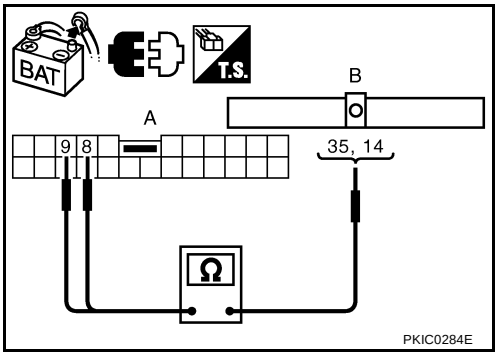
OK or NG

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

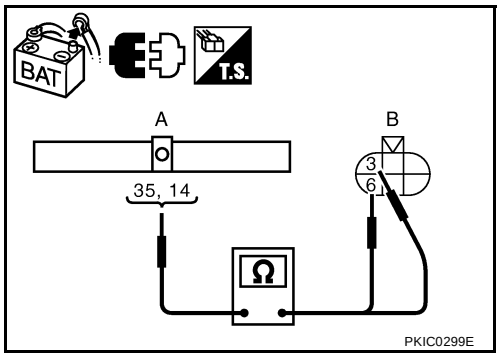
OK >> Connect all the connectors and diagnose again. Refer to LAN-9, "TROUBLE DIAGNOSES WORK FLOW" .
NG >> Repair harness.

Inspection Between ABS Actuator and Electric Unit and ICC Sensor Integrated Unit Circuit

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).

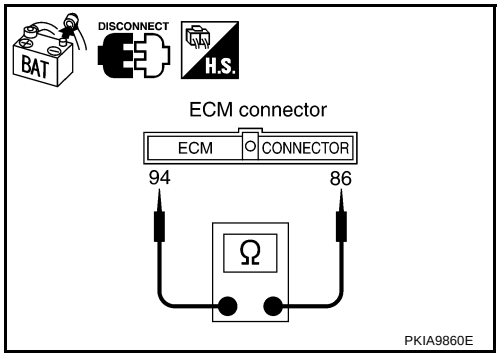
OK or NG

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

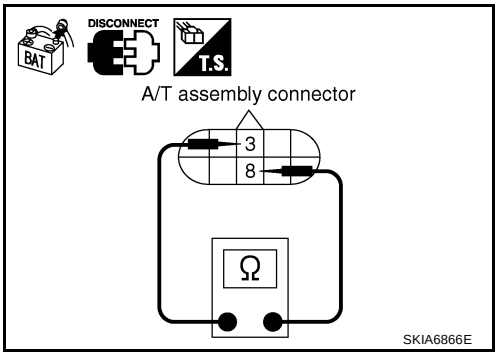
OK or NG

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

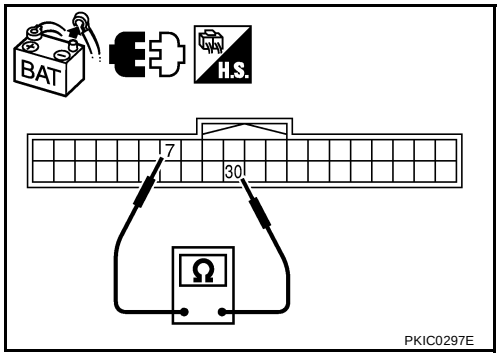
OK or NG

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

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

NKS0044B

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).

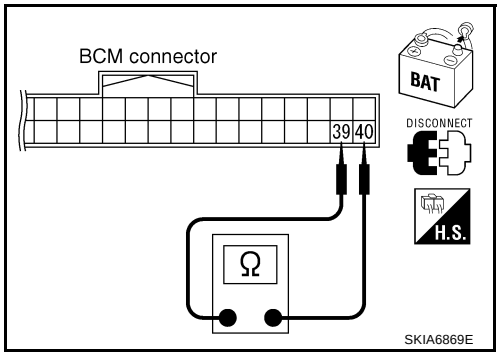
OK or NG

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.

LDW Camera Unit Circuit Inspection

NKS0044C

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).

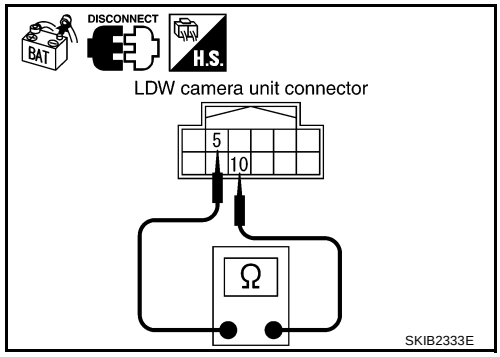
OK or NG

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

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).

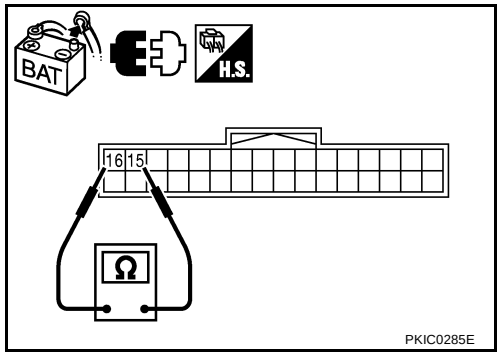
OK or NG

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.)
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).

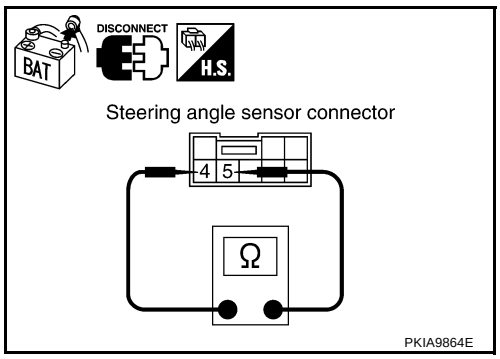
OK or NG

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.)
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

NKS0044F

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).

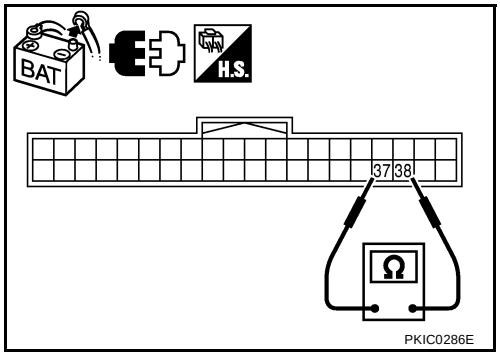
OK or NG

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

NKS0044G

1. CHECK CONNECTOR

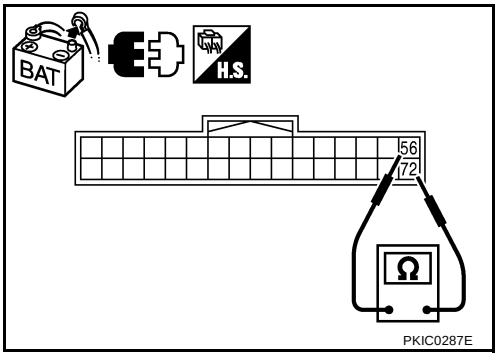
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS0044H

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).

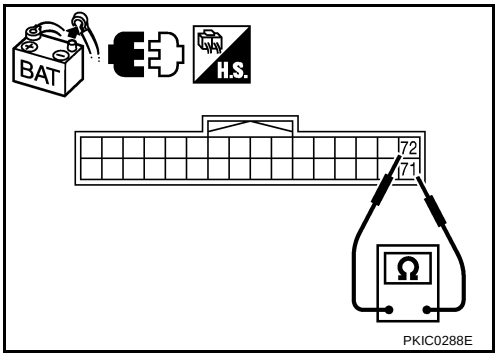
- NAVI control unit connector
- Harness connector M216
- Harness connector M53

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

NKS0044I

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).

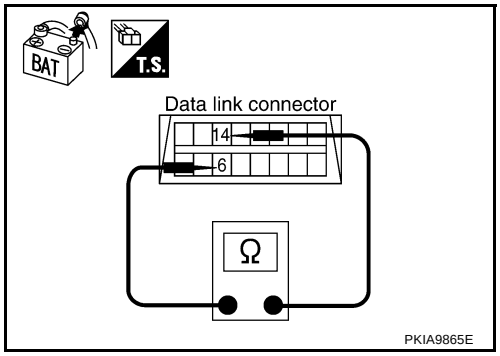
OK or NG

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

NKS0044J

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

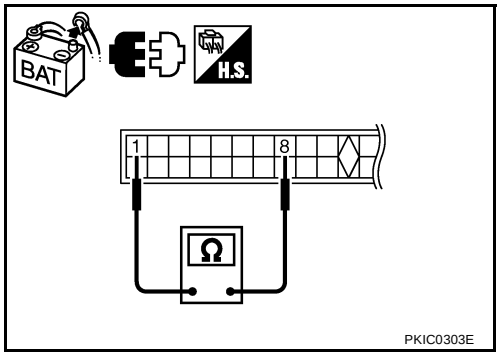
OK >> GO TO 2.

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

NKS0044K

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

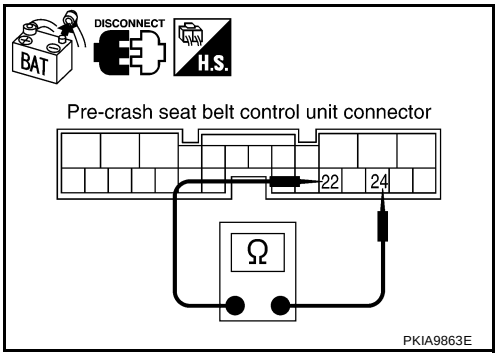
OK >> GO TO 2.

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

NKS0044L

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

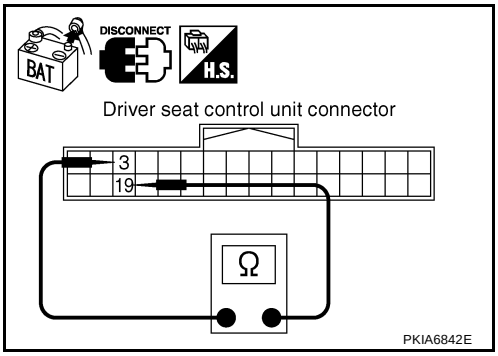
OK or NG

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

NKS0044M

1. CHECK CONNECTOR

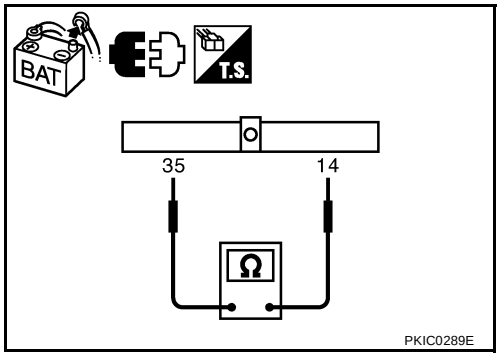
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

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

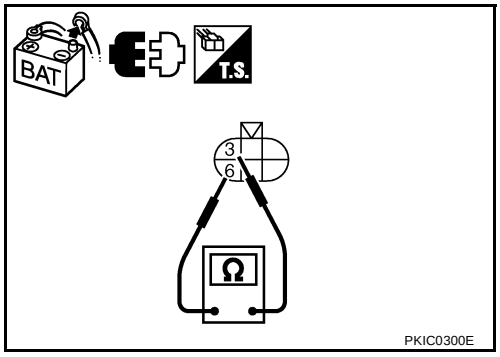
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of ICC sensor integrated unit for damage, bend and loose connection (unit side and harness side).

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

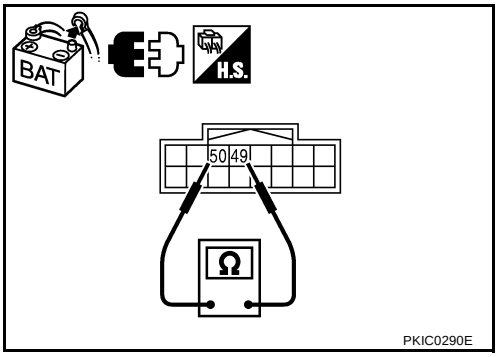
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

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.

CAN Communication Circuit Inspection

NKS0044P

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

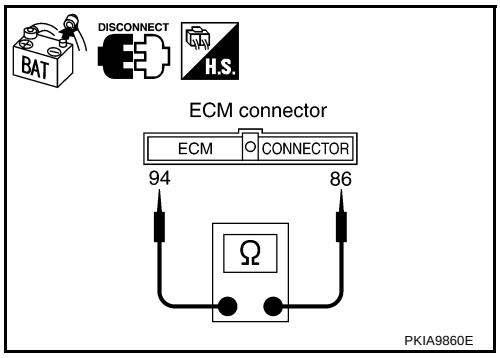
OK >> GO TO 2.
NG >> Repair terminal or connector.

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

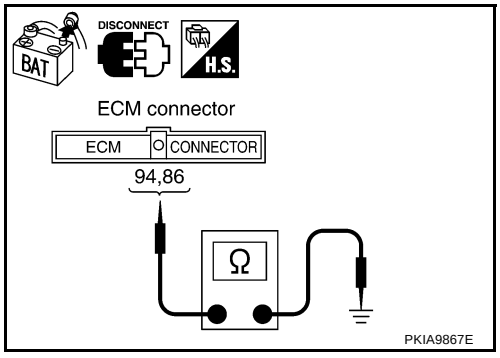
OK >> GO TO 3.

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		No
	86		No



OK or NG

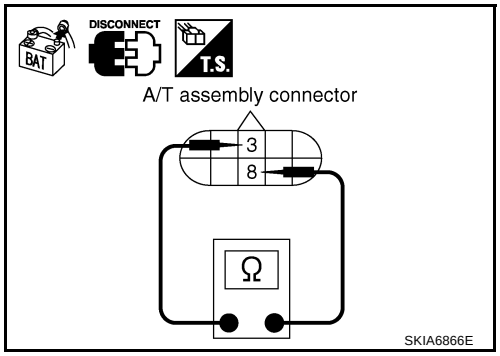
OK >> GO TO 4.

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

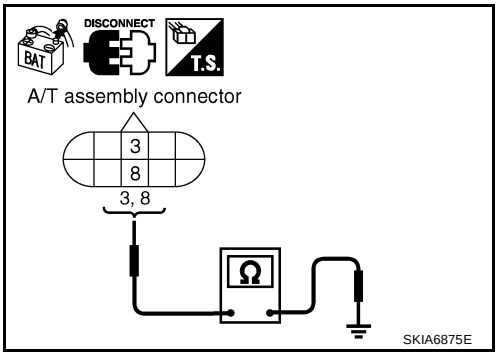
OK >> GO TO 5.

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	Ground	Continuity
F42	3		No
	8		No



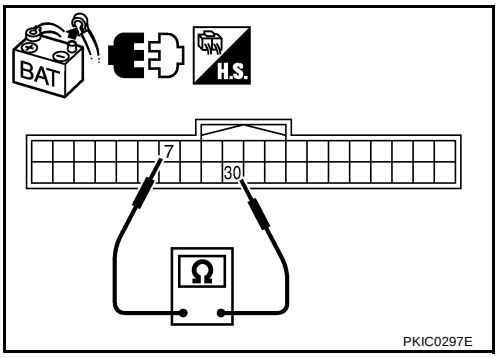
OK or NG

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

6. CHECK HARNESS FOR SHORT CIRCUIT

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

AFS control unit connector	Terminal		Continuity
F110	30	7	No



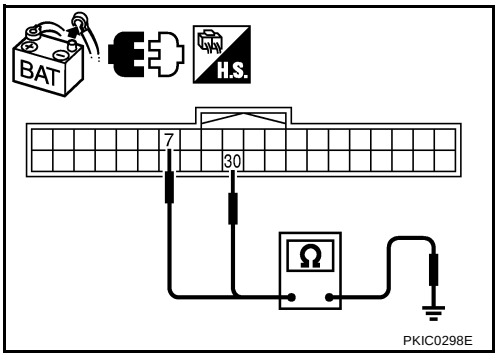
OK or NG

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



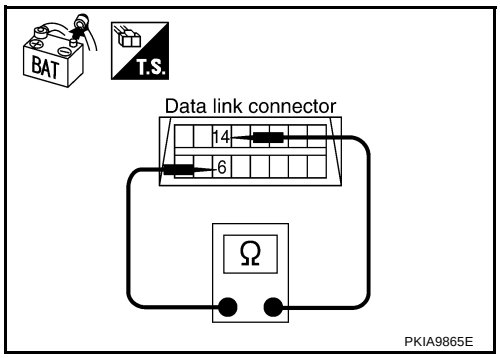
OK or NG

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

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

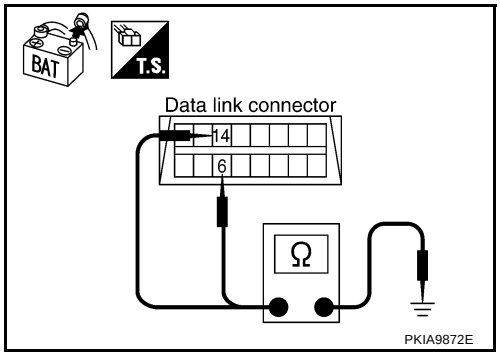
OK >> GO TO 9.

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

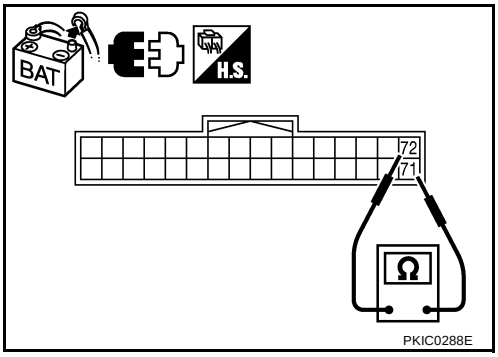
OK >> GO TO 10.

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

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



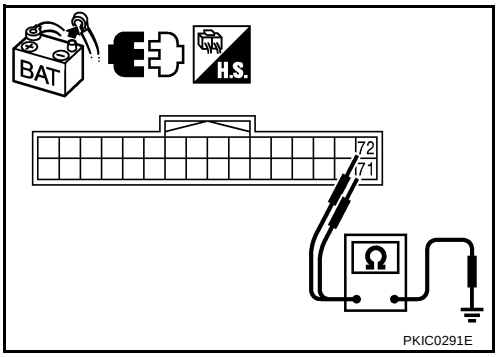
OK or NG

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

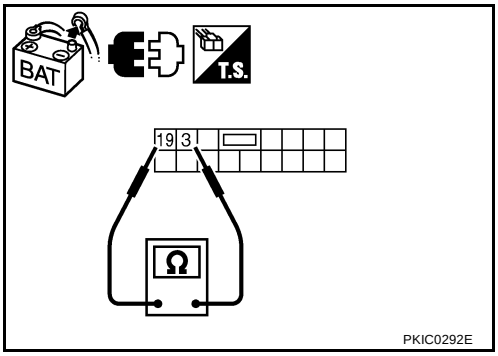
OK >> GO TO 12.
NG >> Repair harness between NAVI control unit and harness connector M216.

12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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



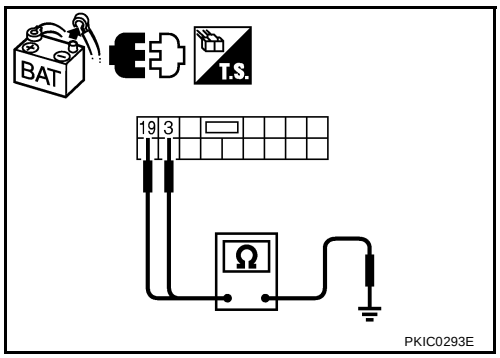
OK or NG

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

13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No



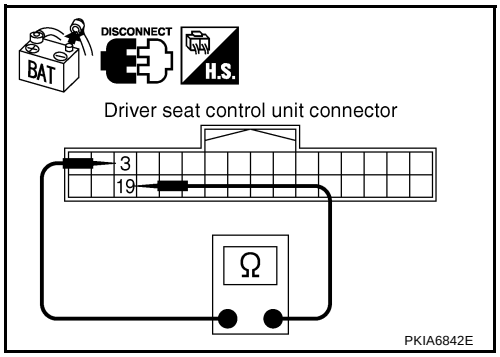
OK or NG

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



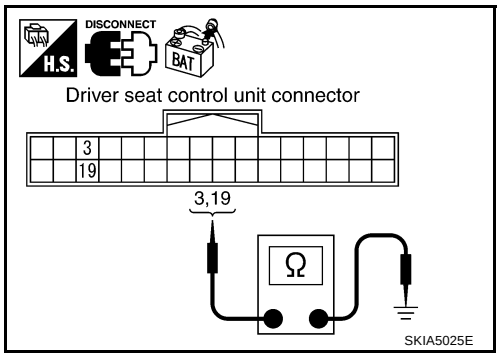
OK or NG

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



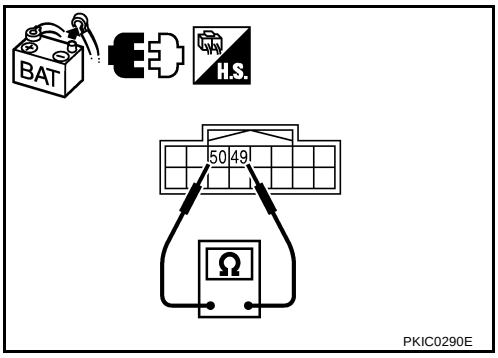
OK or NG

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

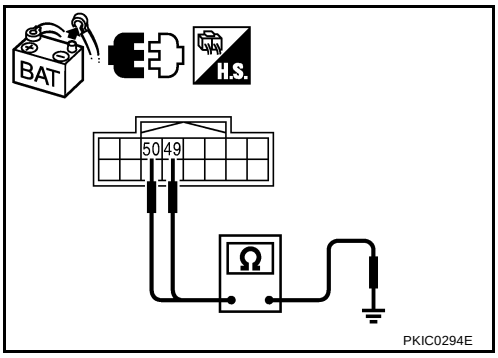
OK >> GO TO 17.

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		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

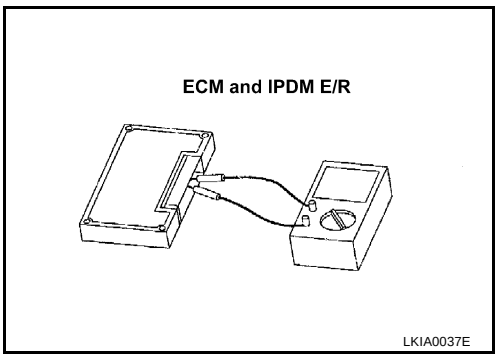
18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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”" .

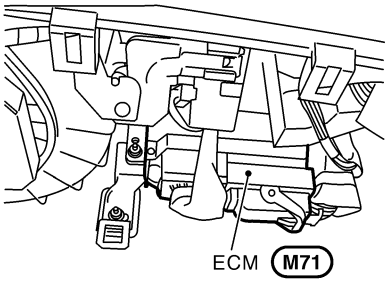
CAN SYSTEM (TYPE 11)

PFP:23710

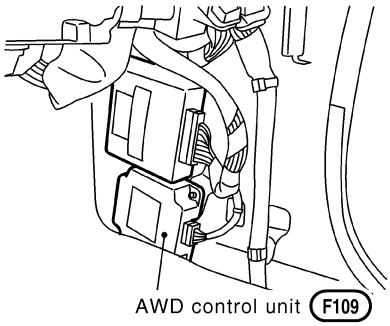
Component Parts and Harness Connector Location

NKS0044R

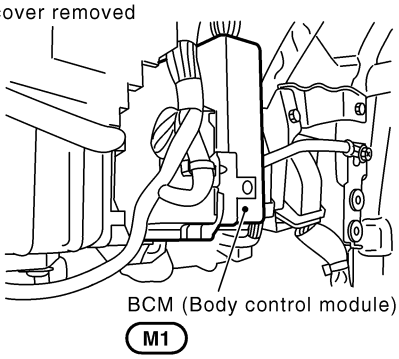
Passenger side view with instrument lower cover removed



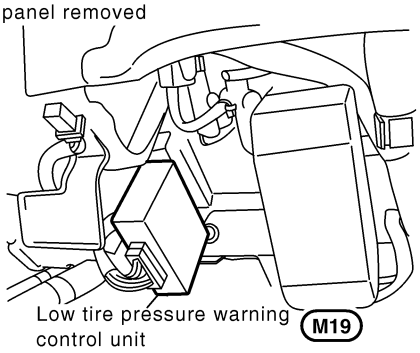
Behind dash side lower RH finisher



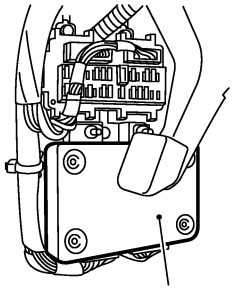
Passenger side view with instrument lower cover removed



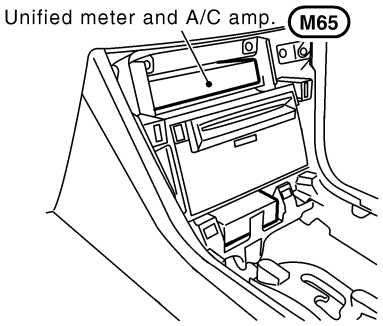
Driver side view with instrument lower panel removed



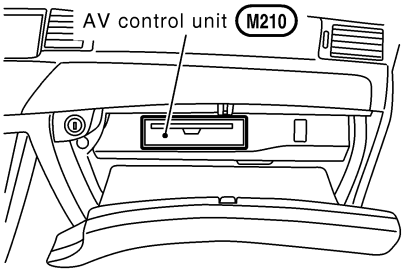
Behind dash side lower LH finisher



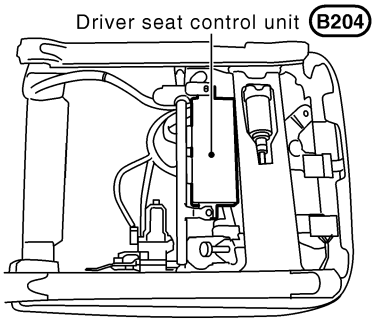
View with cluster lid C removed



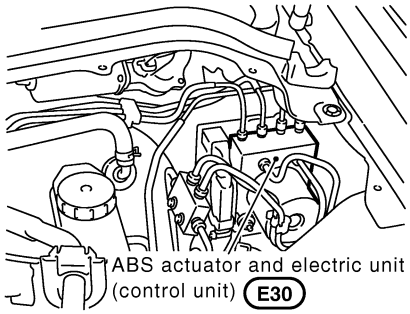
Inside of glove box



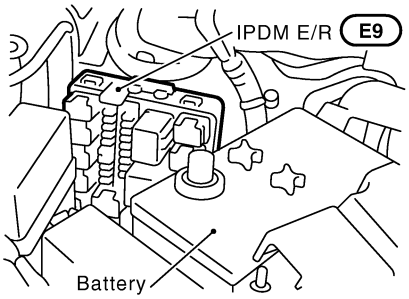
Under driver's seat



Rear left of engine room



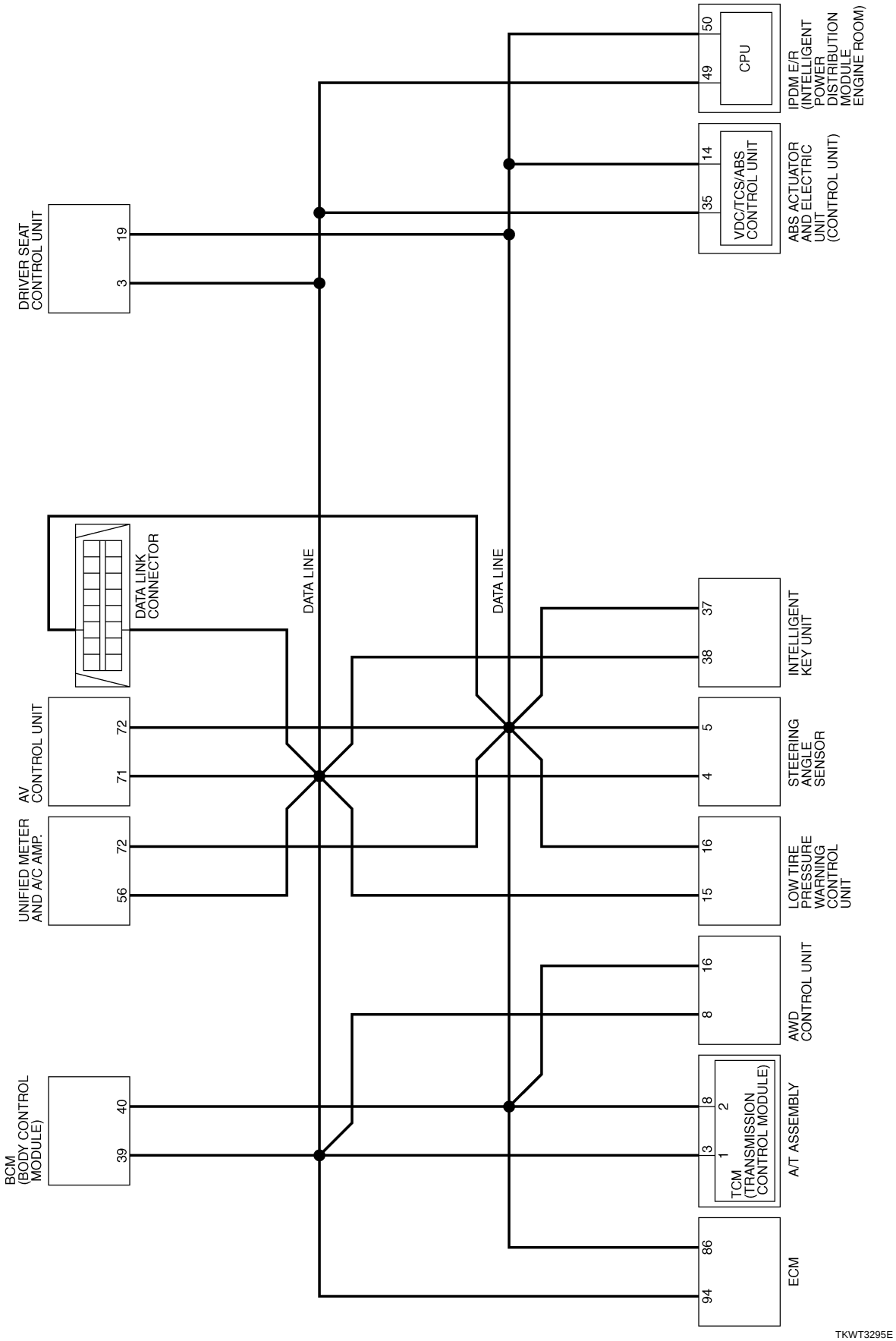
View with cowl top cover removed



PKIC0609E

Schematic

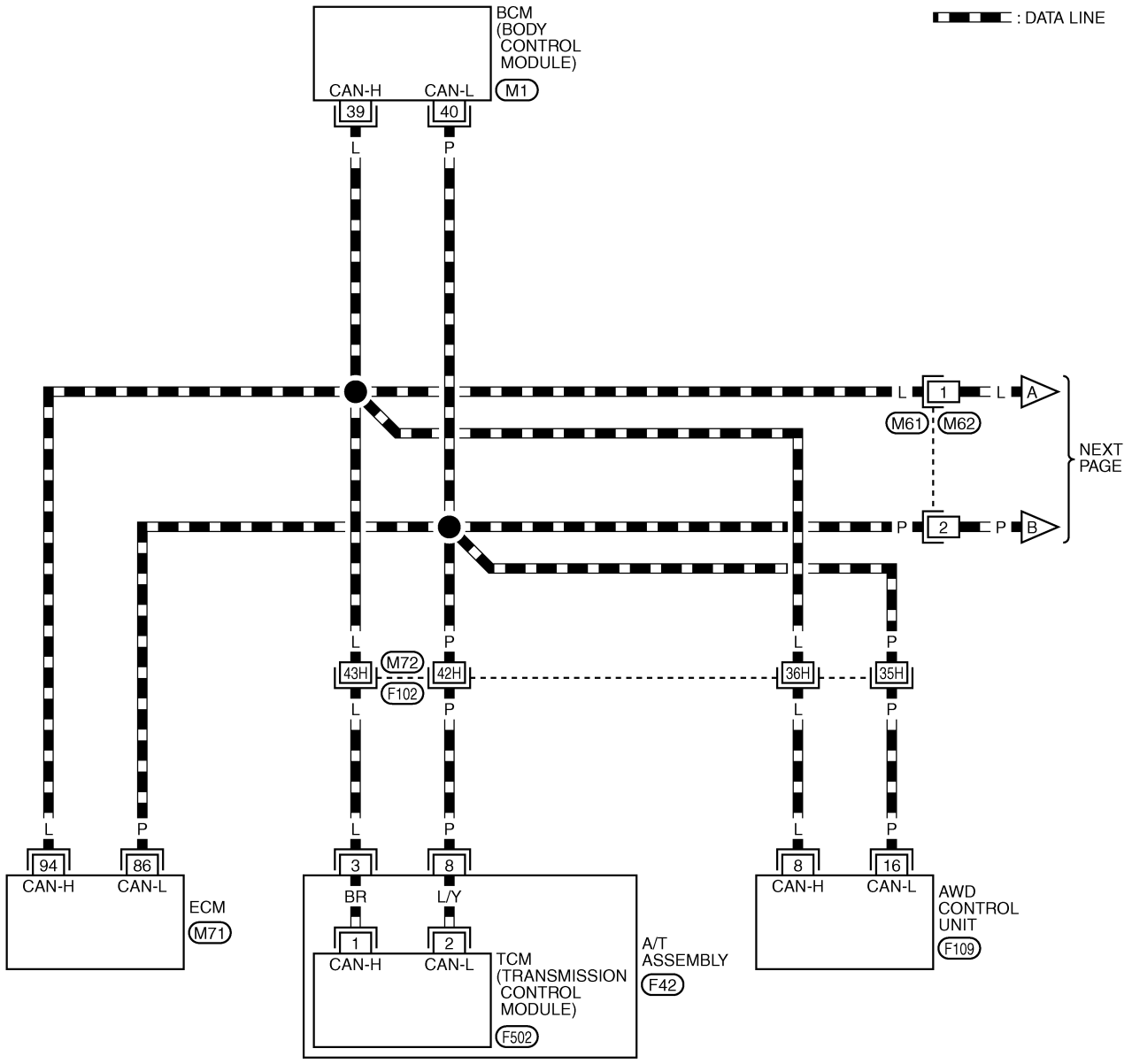
NKS0044S

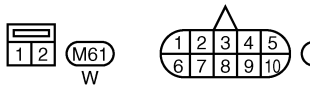


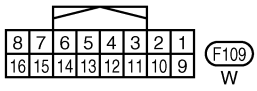
Wiring Diagram — CAN —

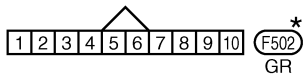
NKS0044T

LAN-CAN-39









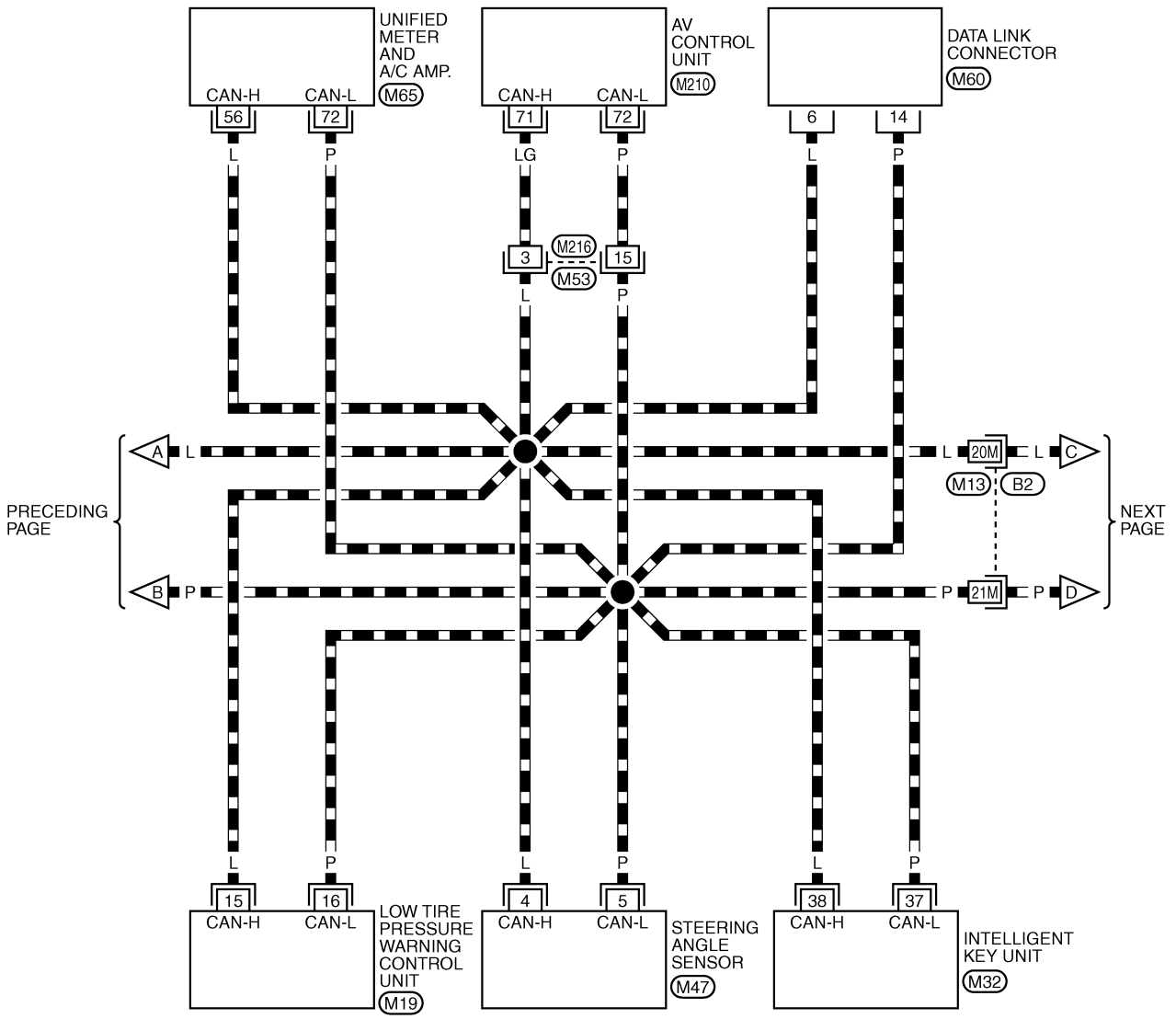
REFER TO THE FOLLOWING.
F102 -SUPER MULTIPLE JUNCTION (SMJ)
M1, M71 -ELECTRICAL UNITS

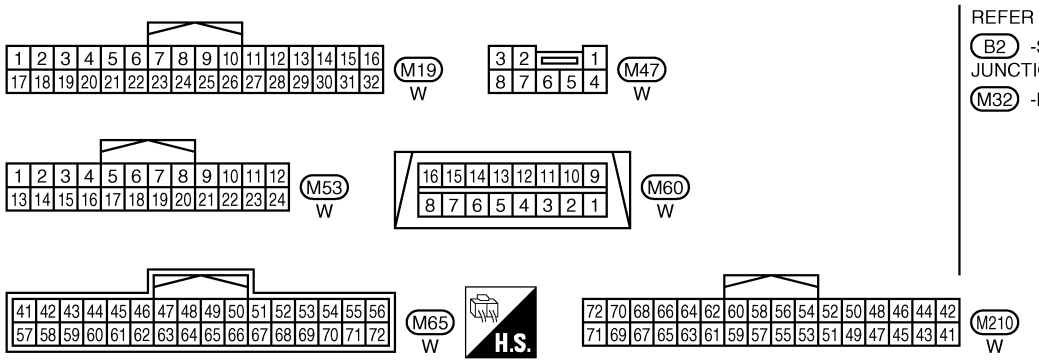
∗: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3296E

LAN-CAN-40

: DATA LINE





REFER TO THE FOLLOWING.

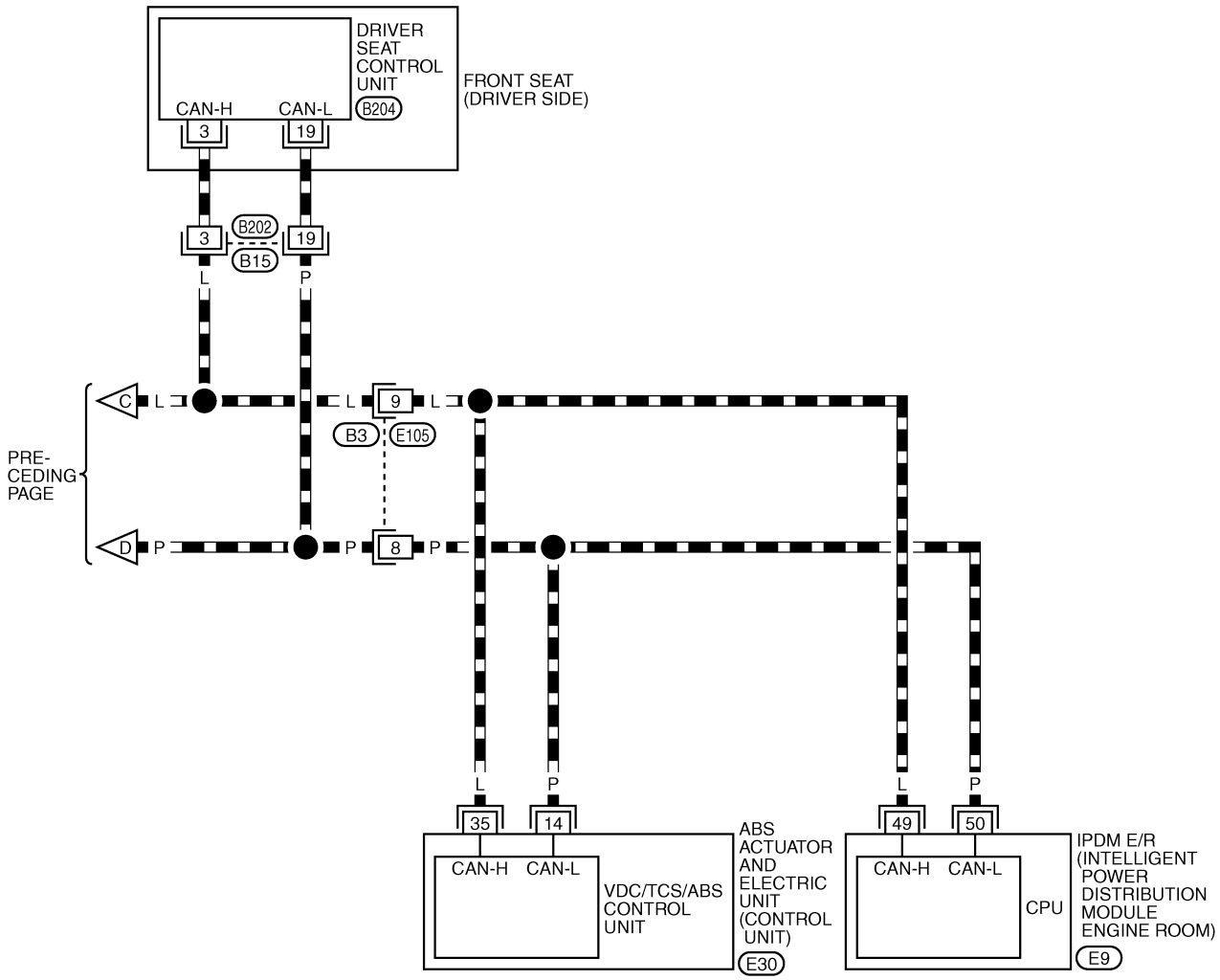
B2 -SUPER MULTIPLE JUNCTION (SMJ)

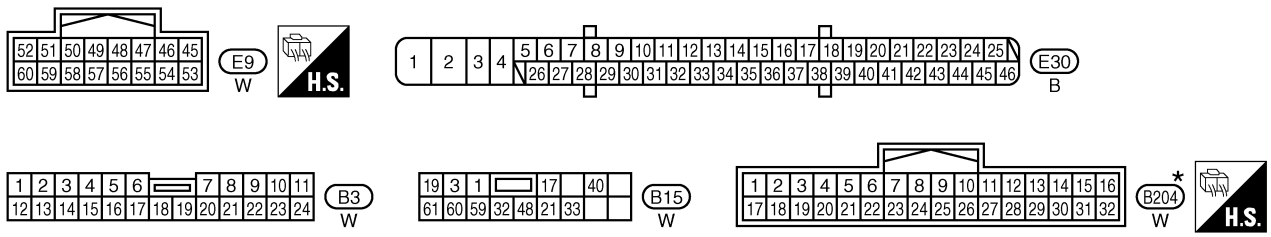
M32 -ELECTRICAL UNITS

TKWT3297E

LAN-CAN-41

: DATA LINE





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

TKWT3298E

Check Sheet

NKS0044U

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

Check sheet table

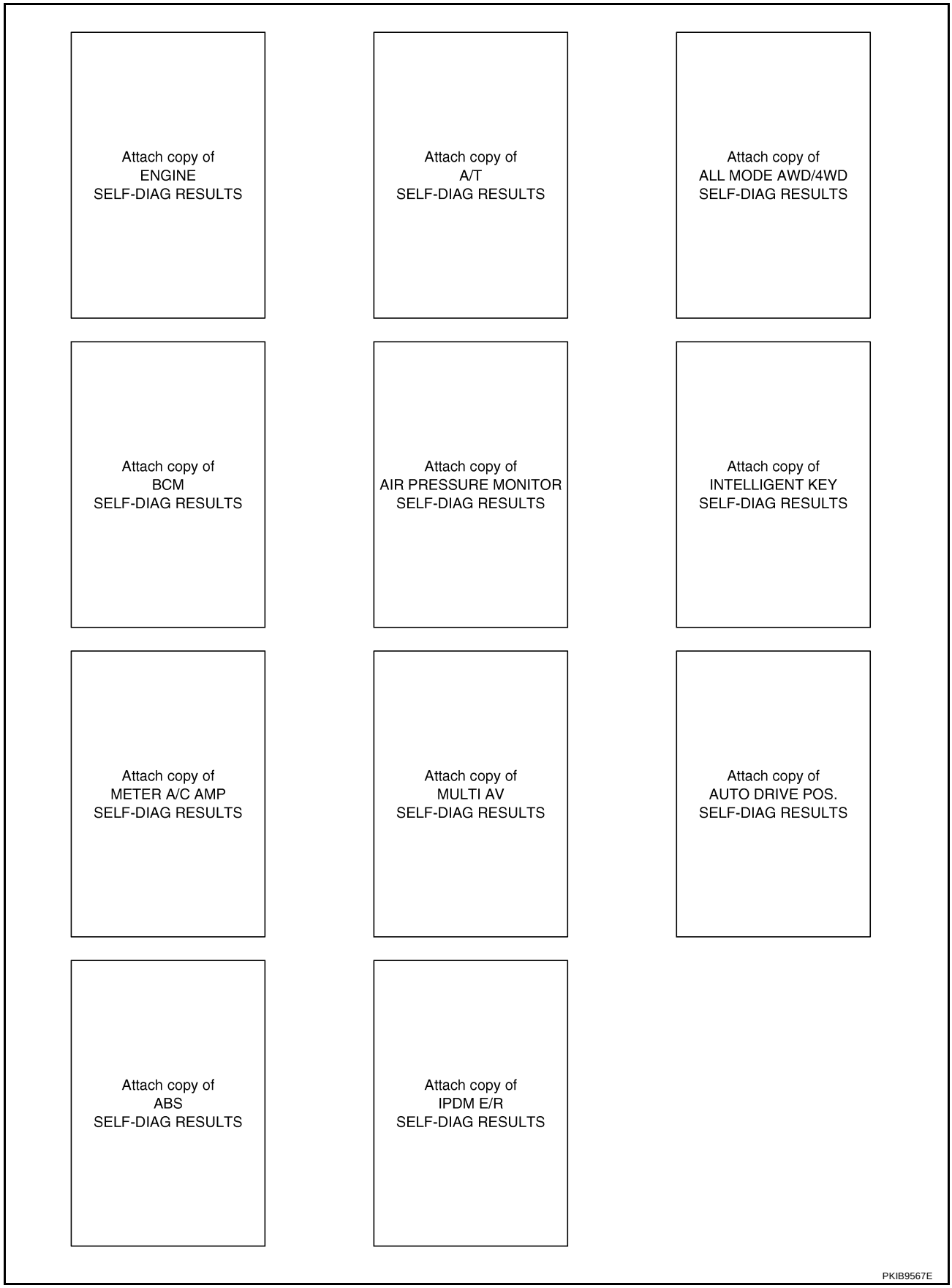
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	AWD/ 4WD	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM 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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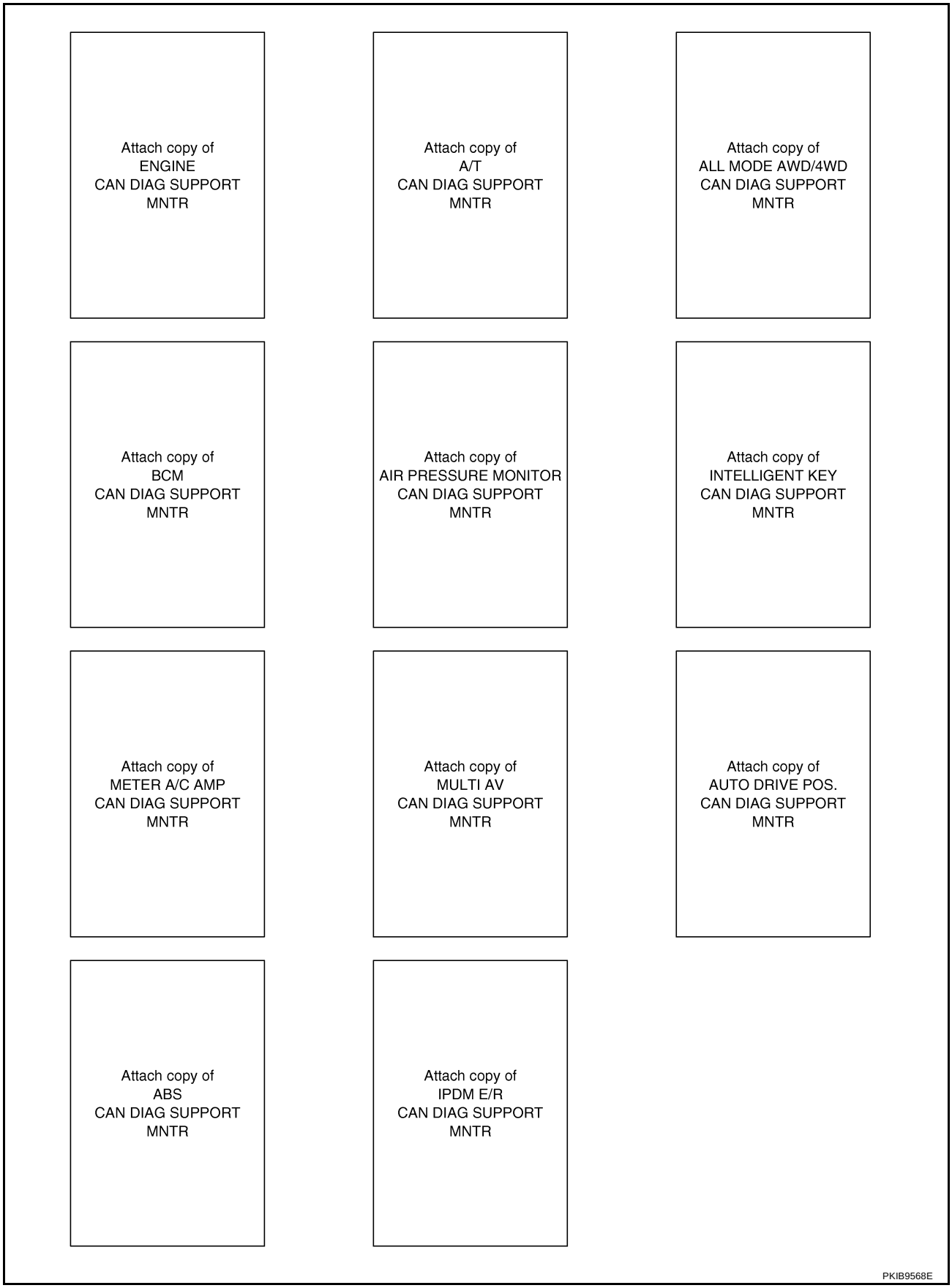
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CHECK SHEET RESULTS (EXAMPLE)

NOTE:

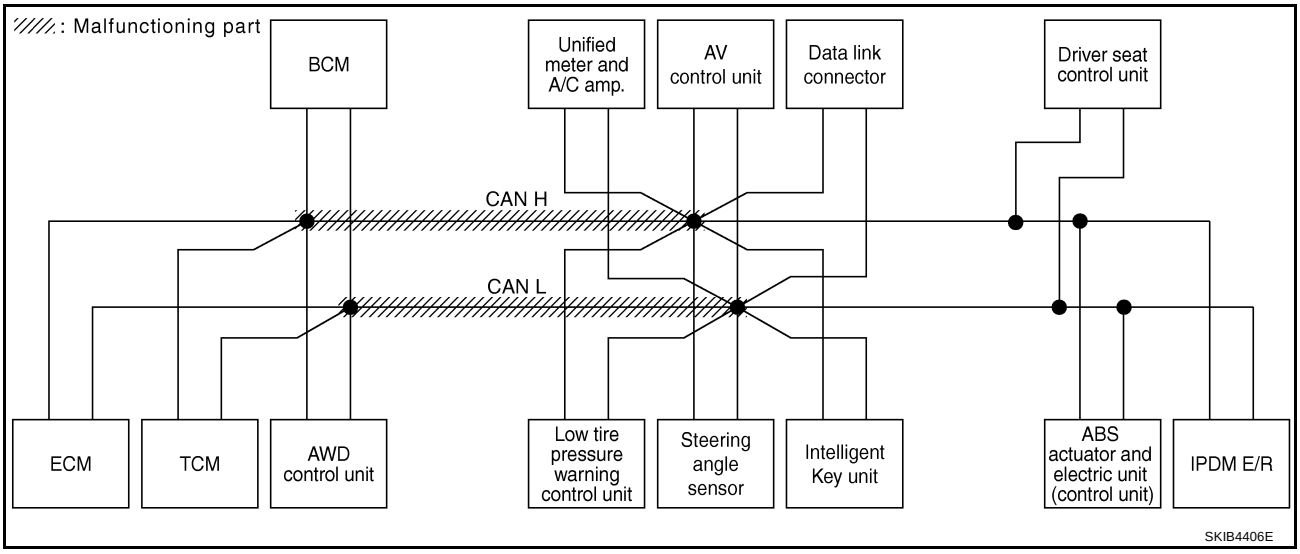
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	—	—	—	✓	—	✓	✓	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	—	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	—	CAN COMM CIRCUIT (U1000) ✓	—
MULTI AV	No indication	—	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	✓	—	—	✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIB8520E

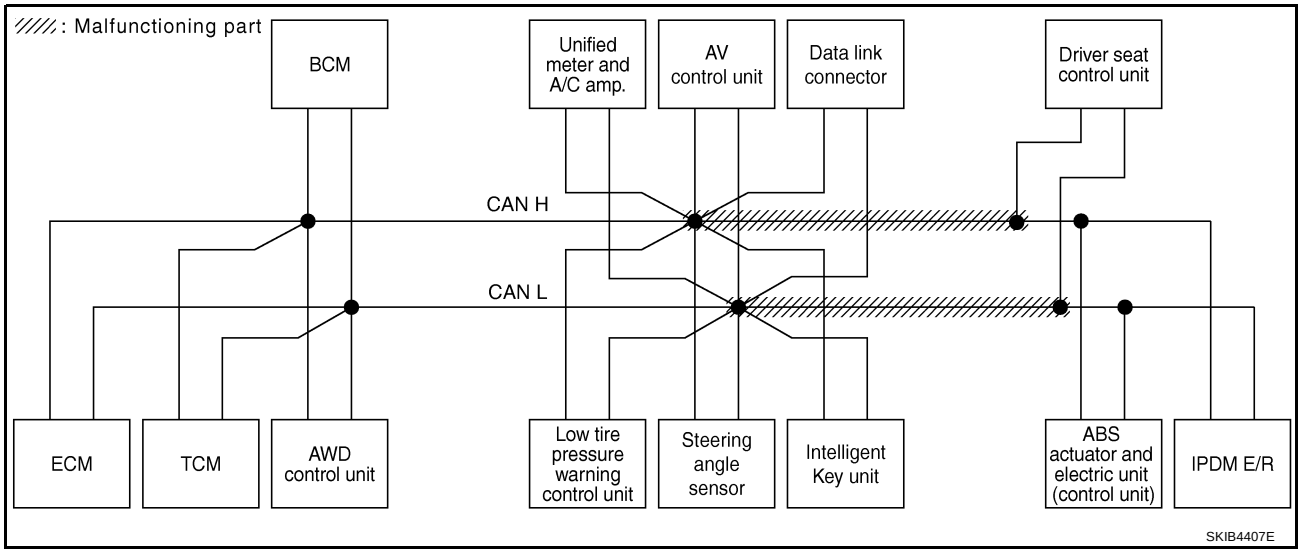


Case 2

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												
				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



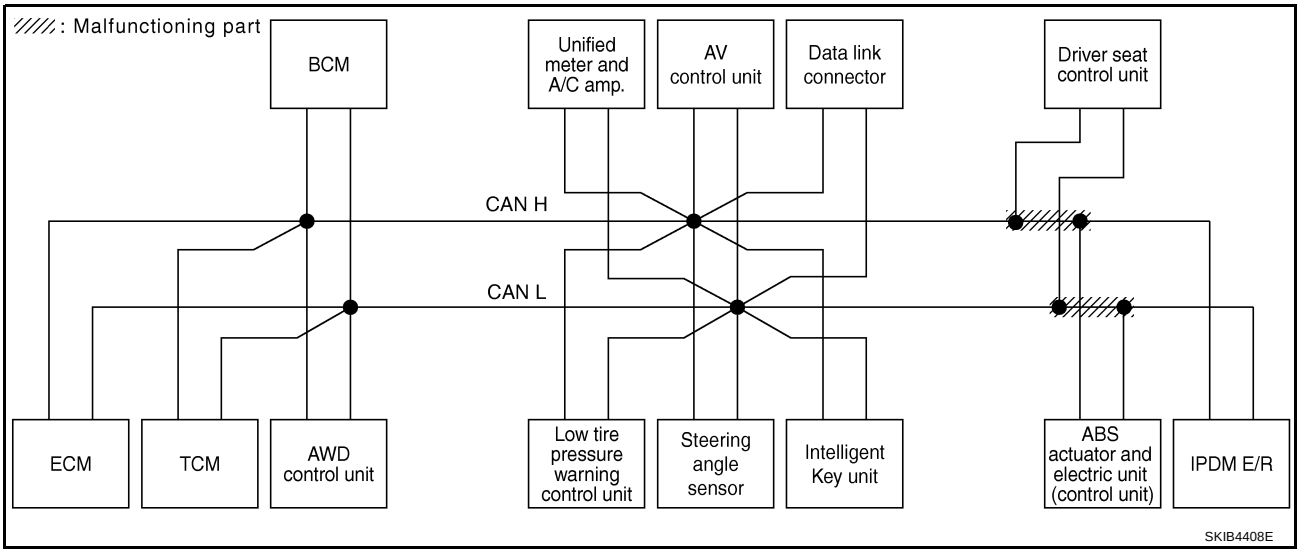
SKIB4407E

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												
				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) ✓	—

PKIB8522E



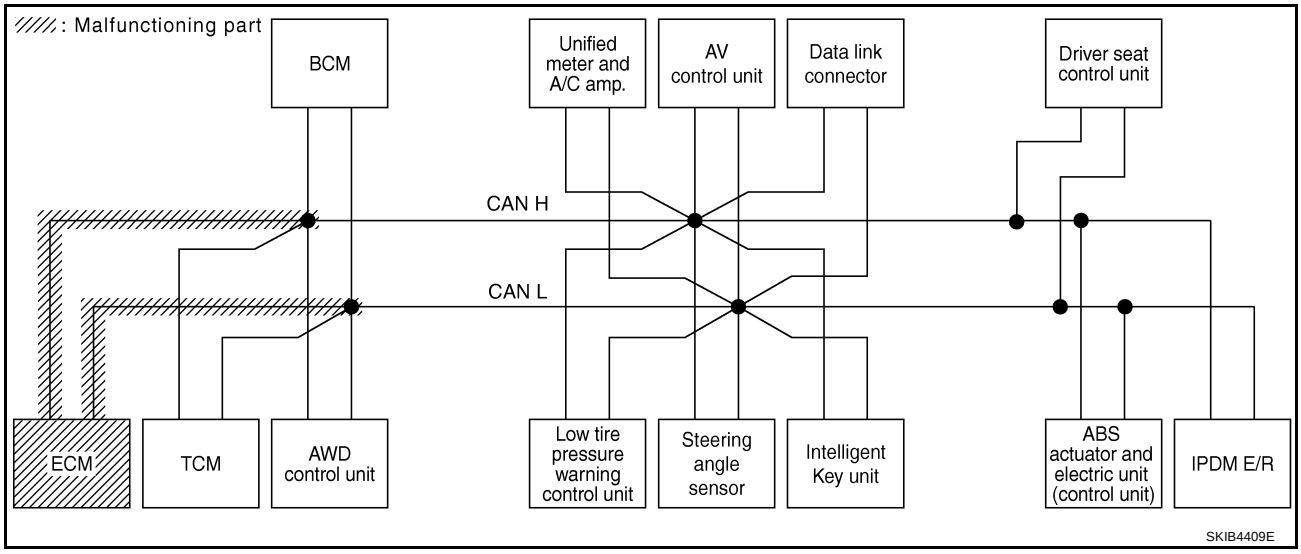
SKIB4408E

Case 4

Check ECM circuit. Refer to LAN-549, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS: CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
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	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	✓	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	✓	—
IPDM E/R	No indication	—	UNKWN	✓	—	—	UNKWN	—	—	—	—	—	—	—	✓	—

PKIB8523E



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)	—

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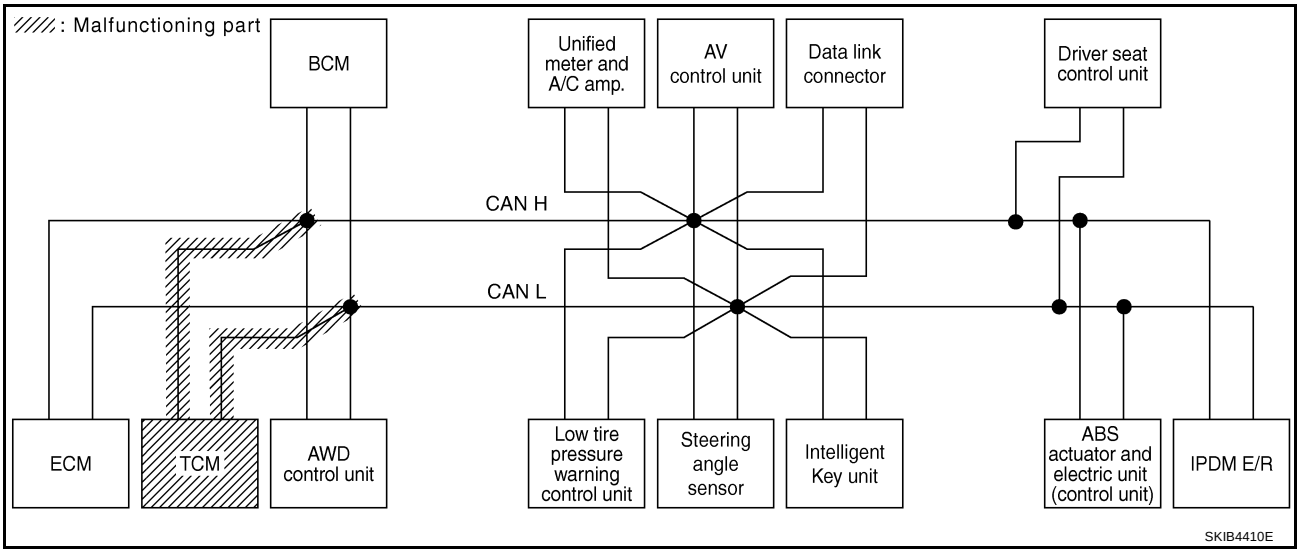
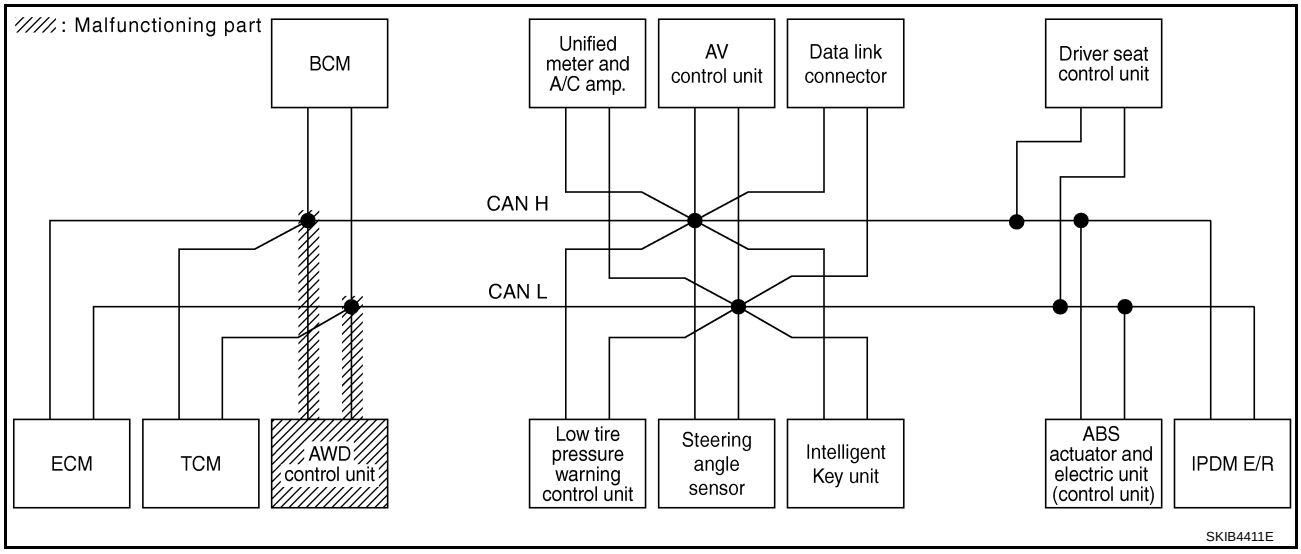


Case 6

Check AWD control unit circuit. Refer to LAN-550, "AWD Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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

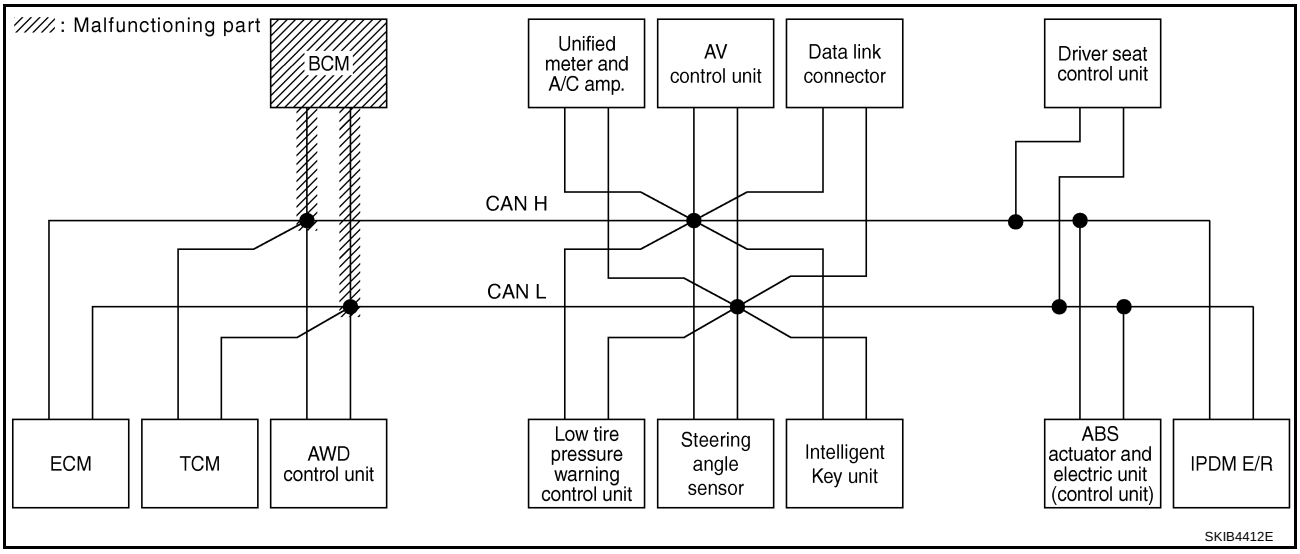


Case 7

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



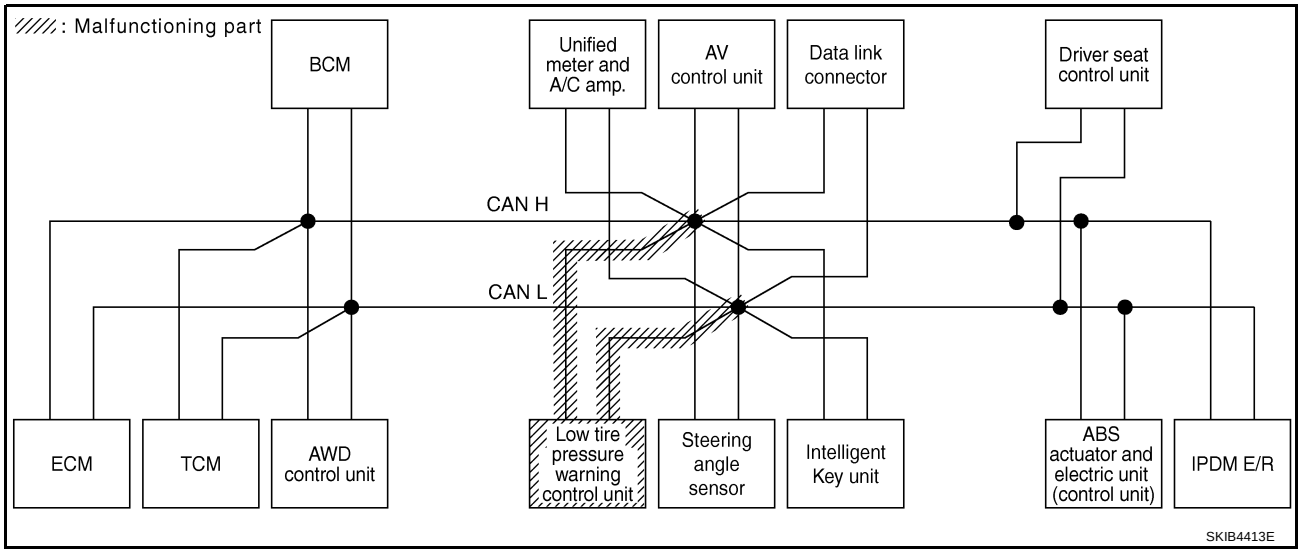
SKIB4412E

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												
				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)	—

PKIB8527E



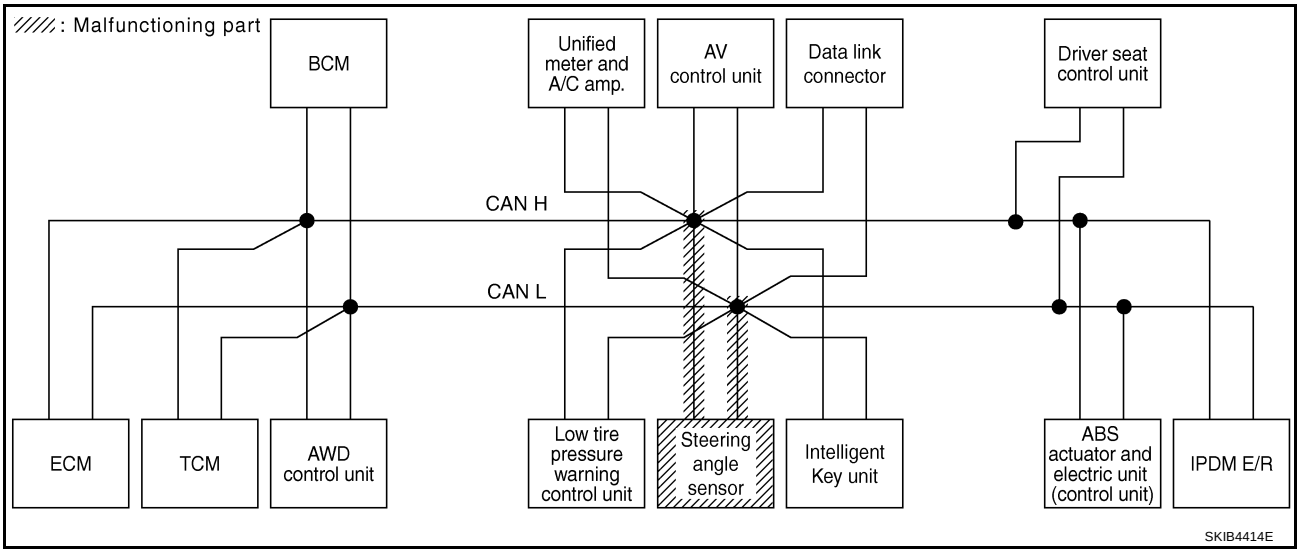
SKIB4413E

Case 9

Check steering angle sensor circuit. Refer to LAN-551, "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

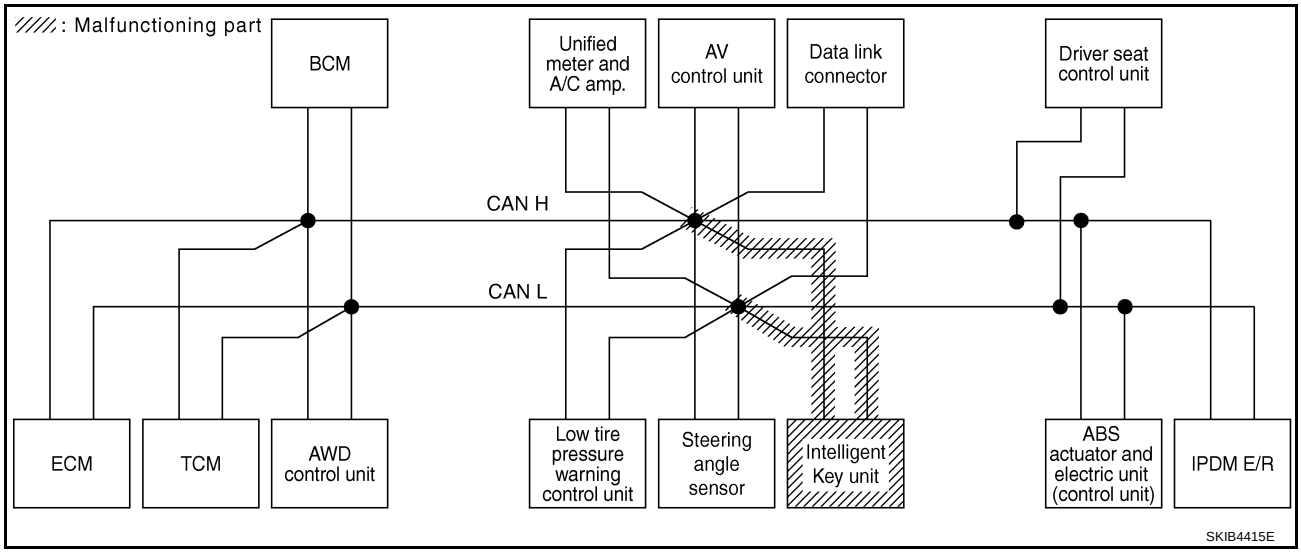


Case 10

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	—	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

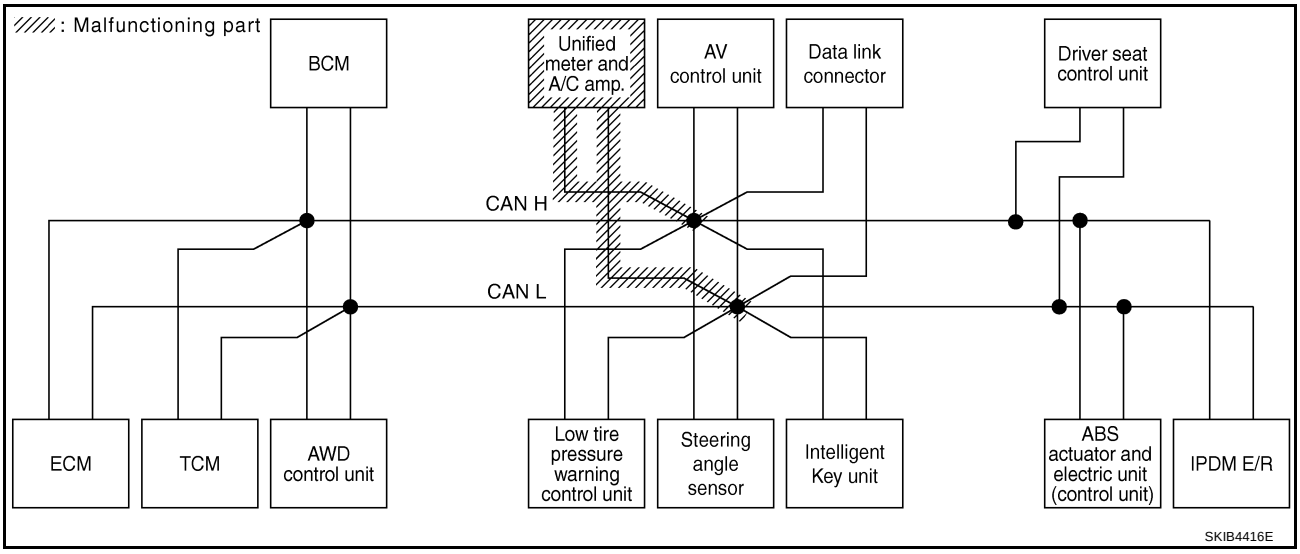


Case 11

Check unified meter and A/C amp. circuit. Refer to LAN-552, "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	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

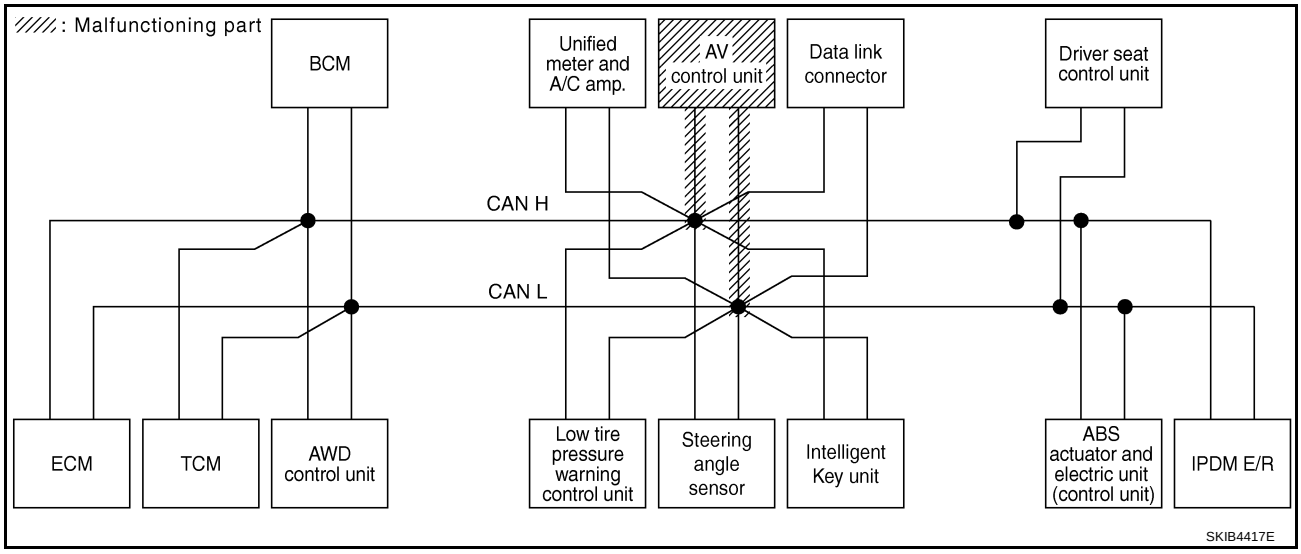


Case 12

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												
				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)	—

PKIB8531E

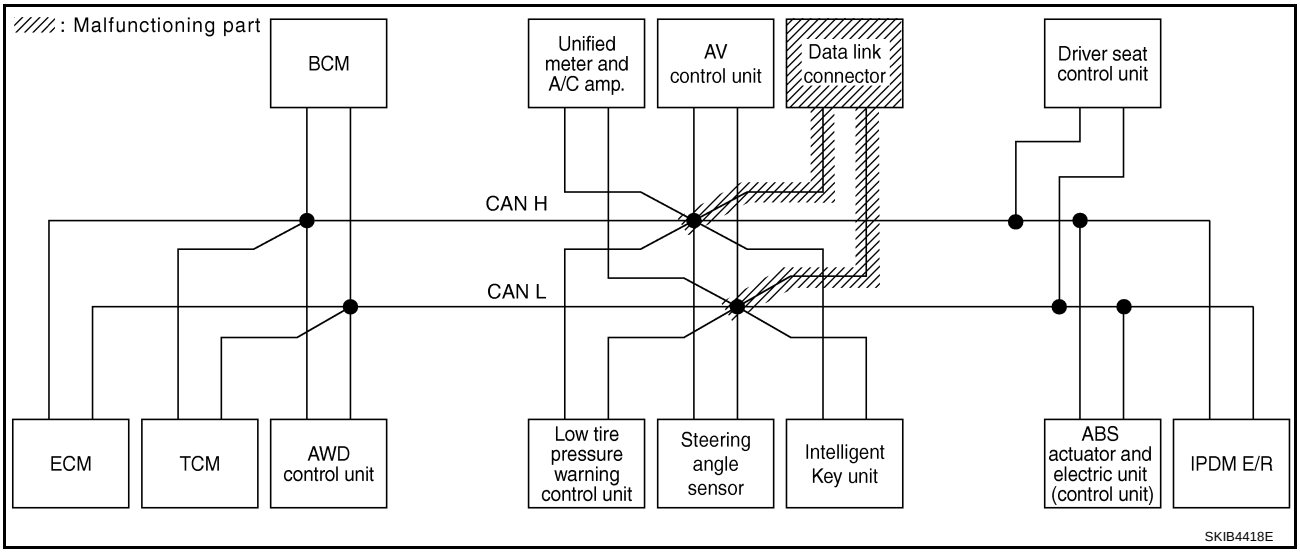


Case 13

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



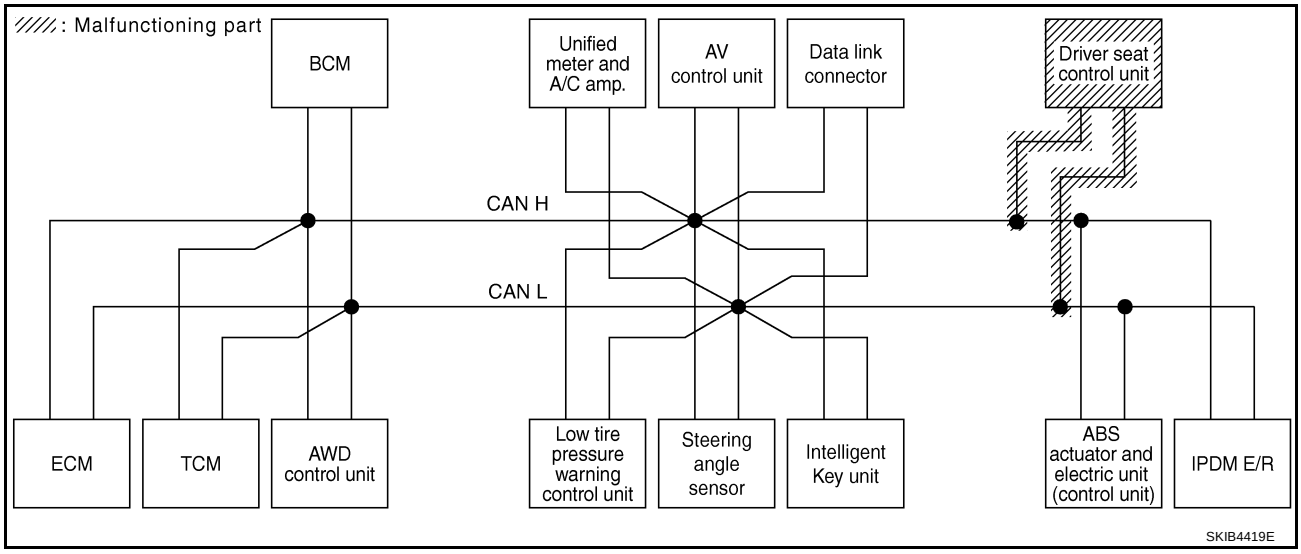
SKIB4418E

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

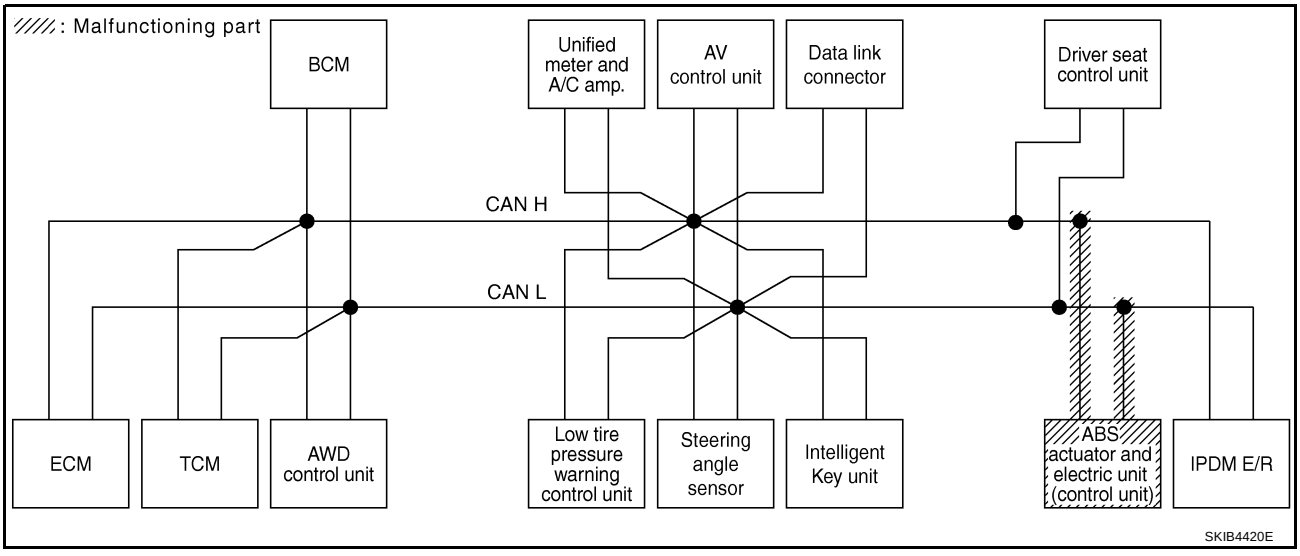


Case 15

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8534E



SKIB4420E

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												
				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) ✓	—

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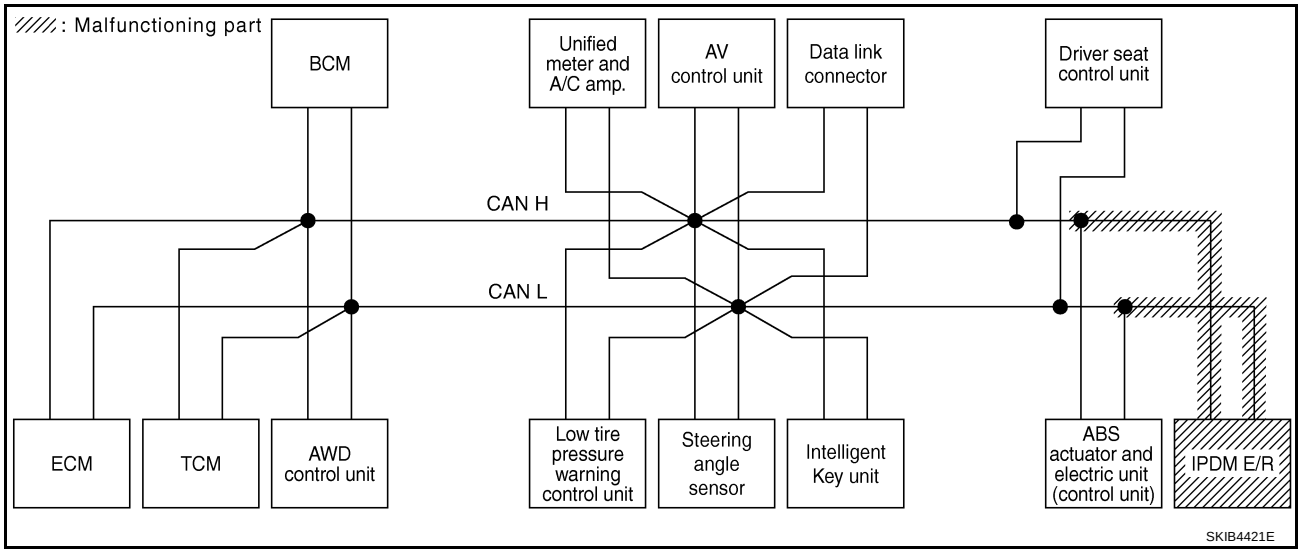


Case 17

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	—	✓	✓	✓	—	—	—	✓	—	✓	✓	✓	—
A/T	—	NG	UNKWN	✓	—	✓	—	—	—	—	✓	—	✓	—	✓	—
ALL MODE AWD/4WD	—	NG	✓	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	✓	—
BCM	✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	—
AIR PRESSURE MONITOR	✓	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	✓	—
INTELLIGENT KEY	✓	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	—
METER A/C AMP	✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	✓	—
MULTI AV	✓	—	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	✓	—
AUTO DRIVE POS.	✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	✓	—
ABS	—	✓	✓	UNKWN	✓	✓	—	—	✓	—	—	—	—	—	✓	—
IPDM E/R	✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	✓	—

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	✓	✓
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	—	—	—	—	—	—	—	—	✓	—	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	✓	—	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	—	—	—	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)	—

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: 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	SELF-DIAG RESULTS	
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

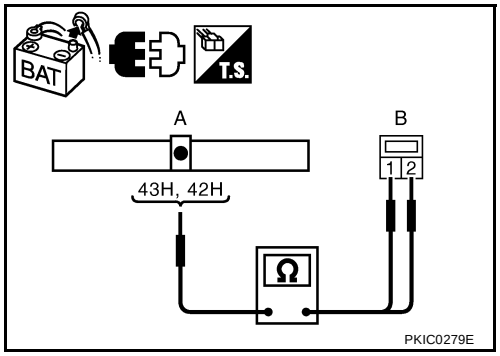
OK or NG

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



PKIC0279E

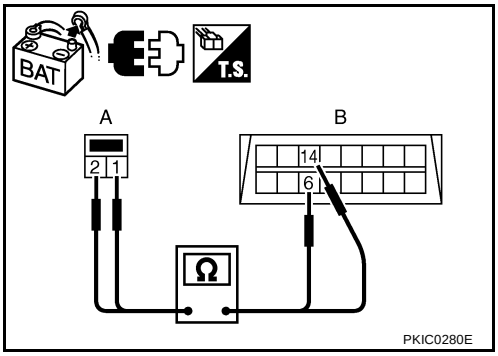
OK or NG

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

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

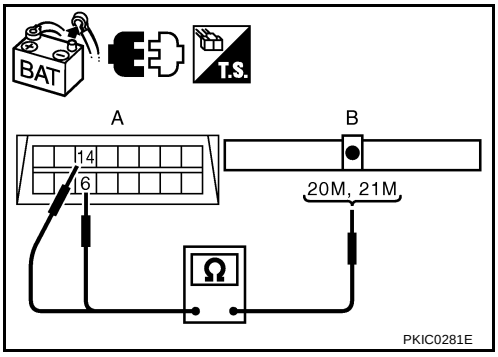
OK >> GO TO 2.

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

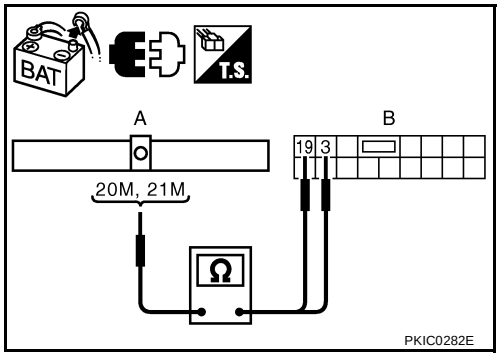
OK >> GO TO 3.

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

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

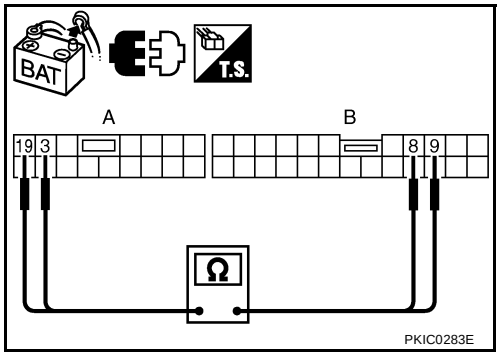
OK >> GO TO 2.

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

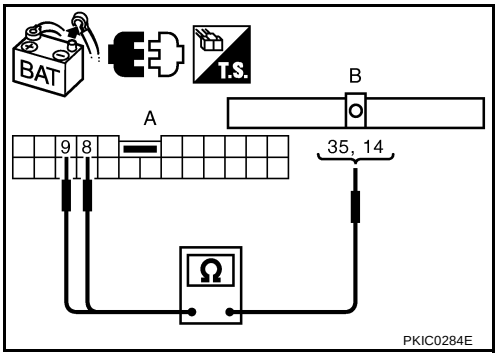
OK >> GO TO 3.

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

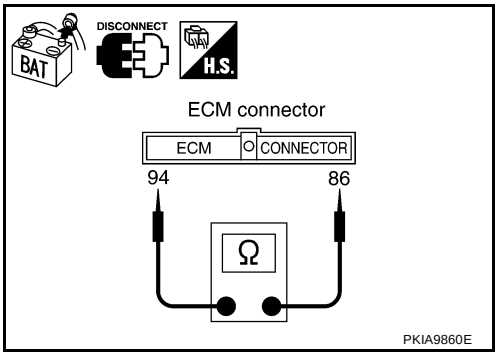
OK >> GO TO 2.

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.

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

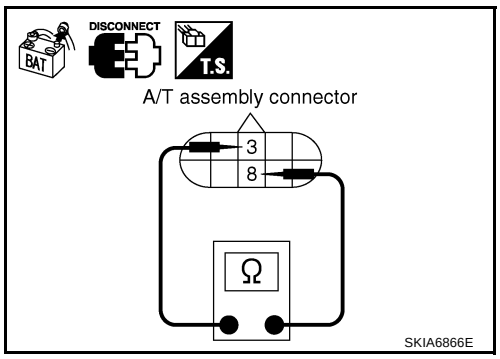
OK >> GO TO 2.

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.

AWD Control Unit Circuit Inspection

NKS00450

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

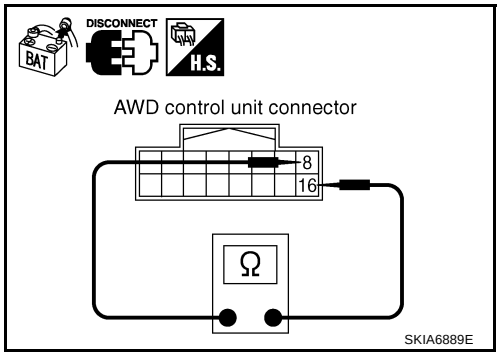
OK or NG

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.

BCM Circuit Inspection

NKS00451

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).

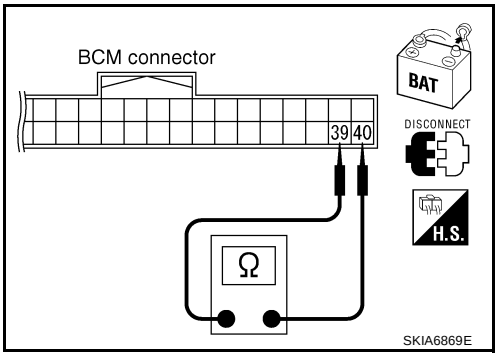
OK or NG

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).

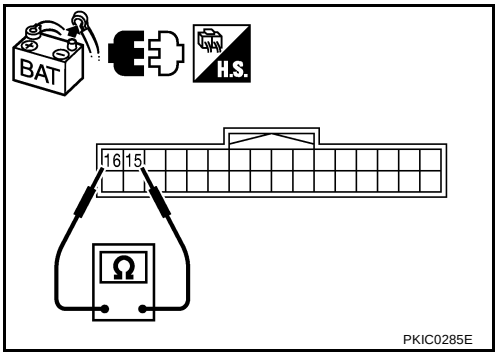
OK or NG

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).

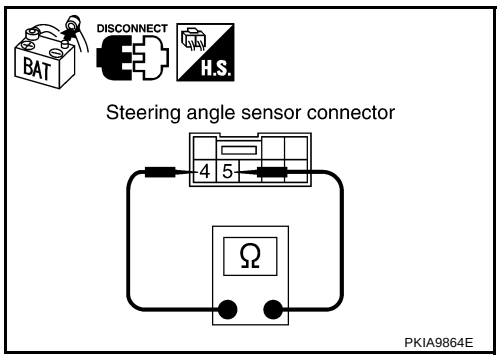
OK or NG

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.)
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

NKS00454

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).

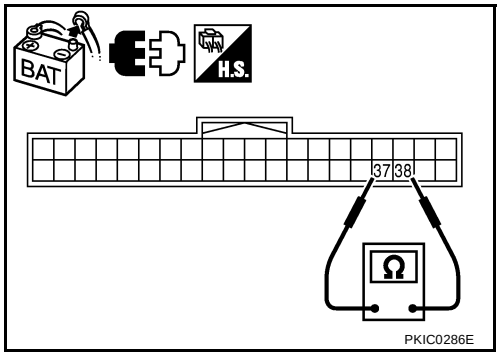
OK or NG

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

NKS00455

1. CHECK CONNECTOR

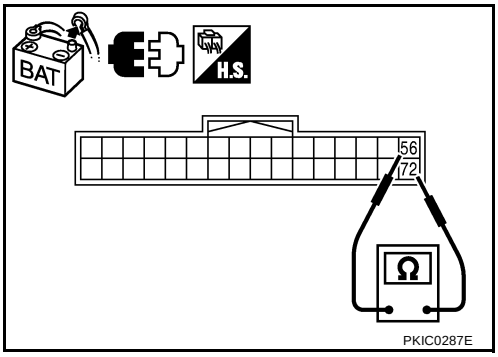
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS00456

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).

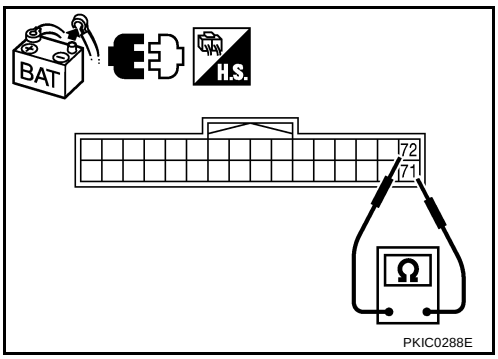
- AV control unit connector
- Harness connector M216
- Harness connector M53

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

NKS00457

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).

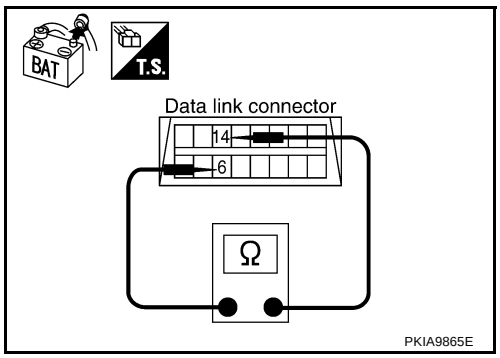
OK or NG

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

NKS00458

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

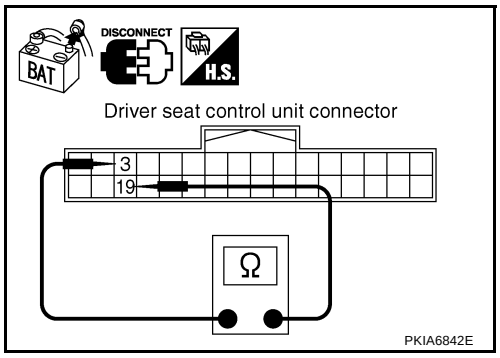
OK >> GO TO 2.

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

NKS00459

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).

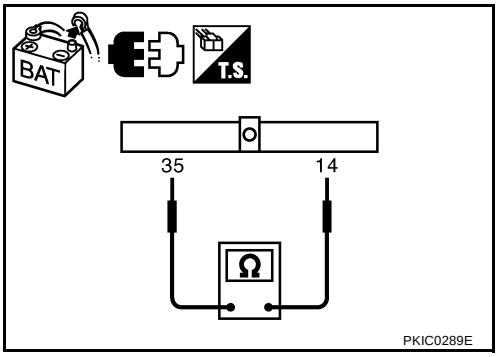
OK or NG

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

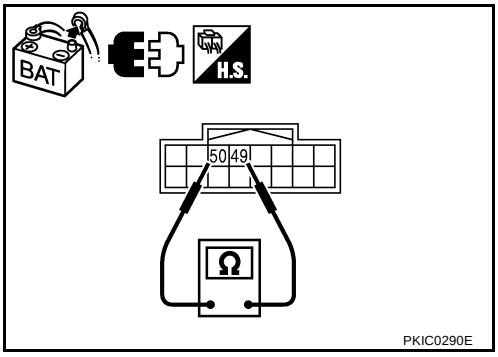
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

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.

CAN Communication Circuit Inspection

NKS0045B

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.

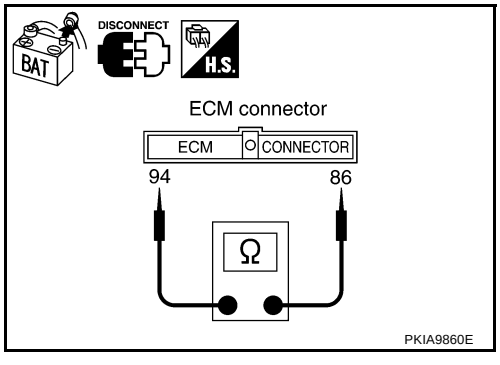
2. CHECK HARNESS FOR SHORT CIRCUIT

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

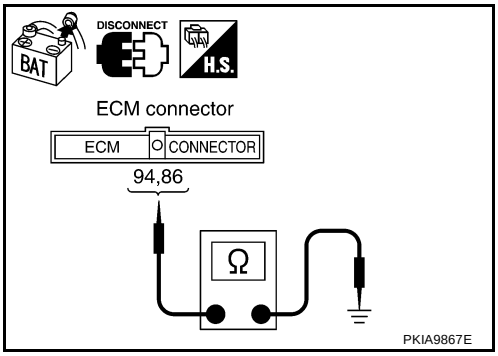
OK >> GO TO 3.
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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.

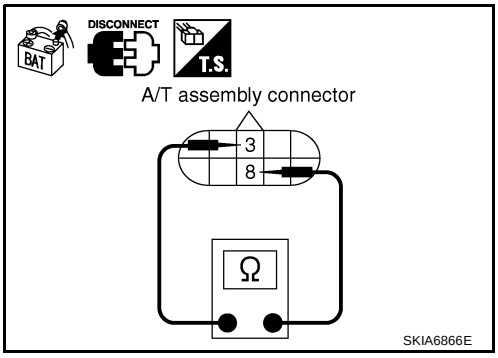
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

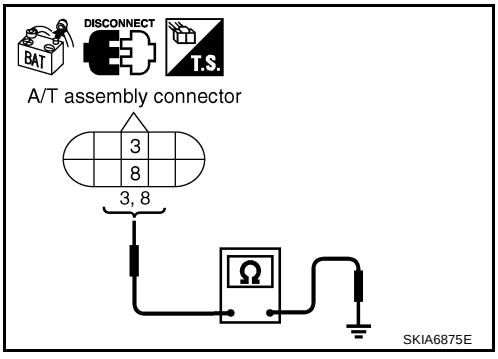
OK >> GO TO 5.

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

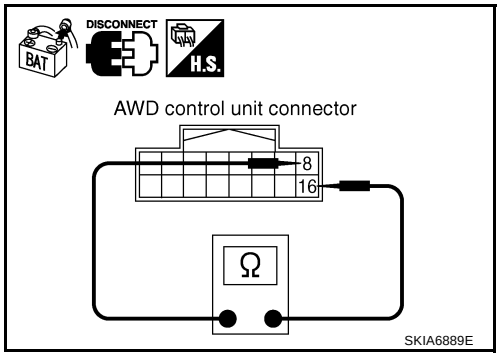
OK >> GO TO 6.

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

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



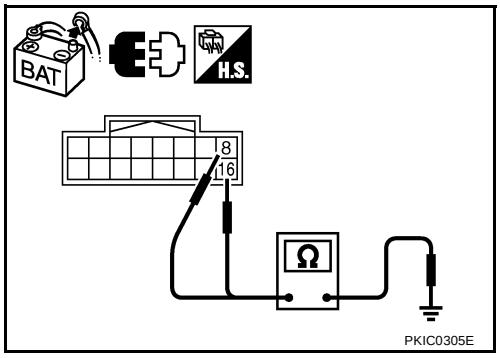
OK or NG

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



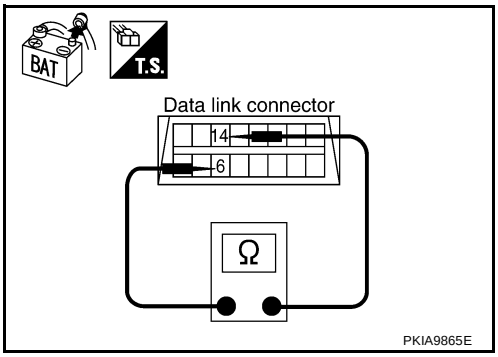
OK or NG

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

8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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

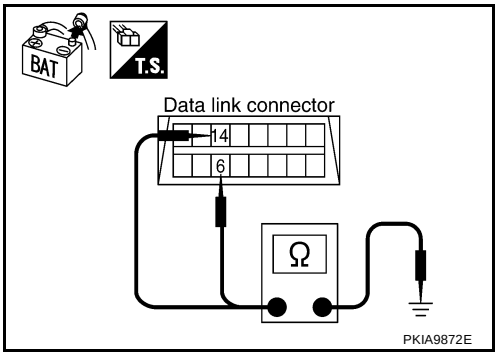
OK >> GO TO 9.

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

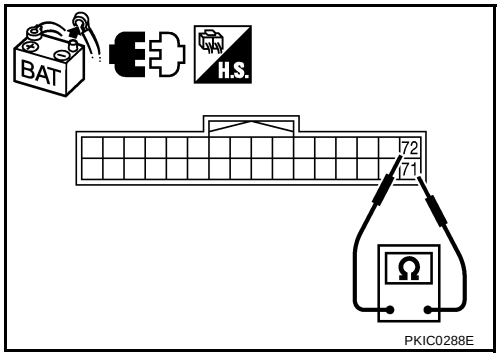
OK >> GO TO 10.

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

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



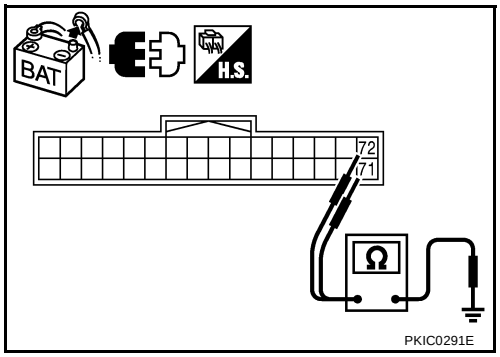
OK or NG

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



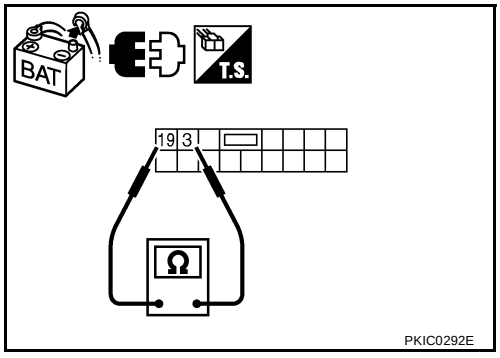
OK or NG

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

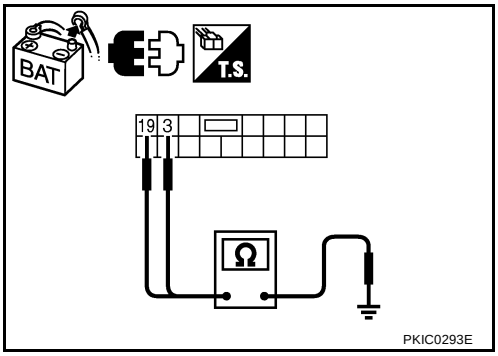
OK >> GO TO 13.
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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.

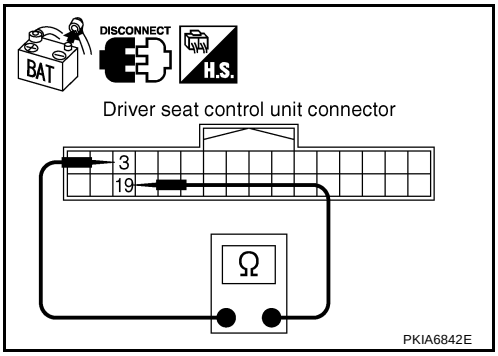
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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	19	No



OK or NG

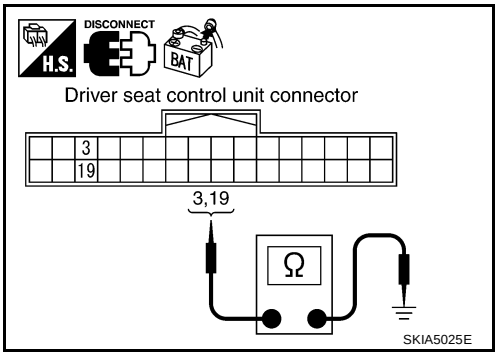
OK >> GO TO 15.

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



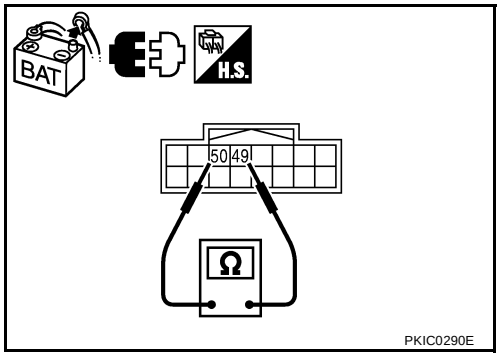
OK or NG

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.



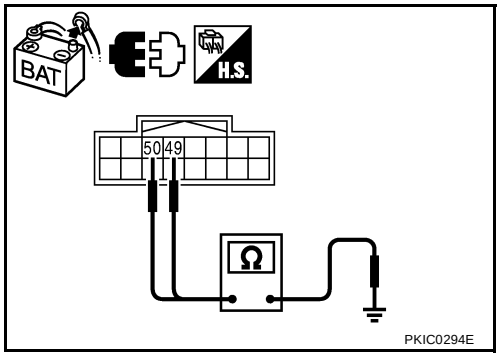
IPDM E/R connector	Terminal		Continuity
E9	49	50	No

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.



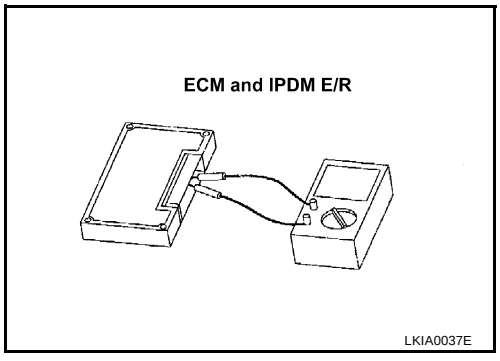
IPDM E/R connector	Terminal	Ground	Continuity
E9	49		No
	50		No

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.

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”" .

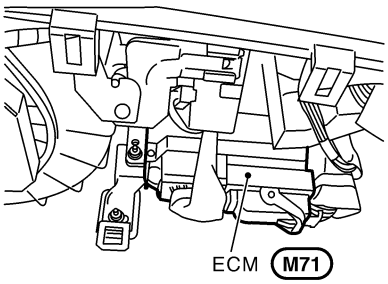
CAN SYSTEM (TYPE 12)

PFP:23710

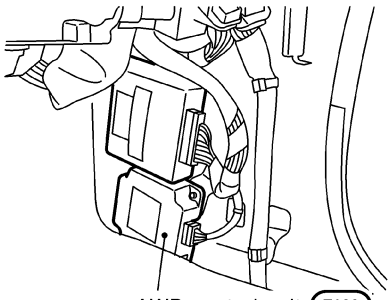
Component Parts and Harness Connector Location

NKS0045D

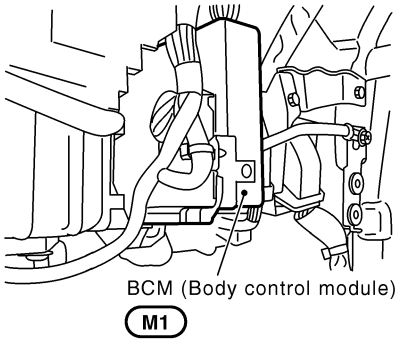
Passenger side view with instrument lower cover removed



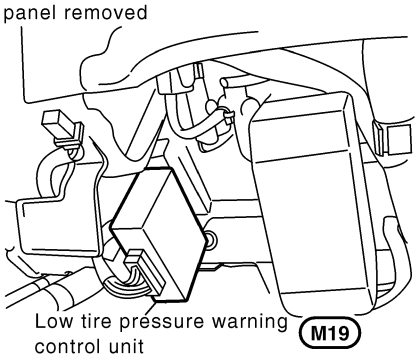
Behind dash side lower RH finisher



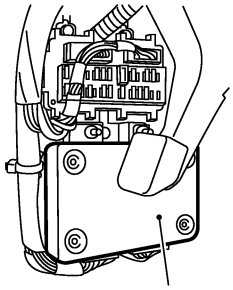
Passenger side view with instrument lower cover removed



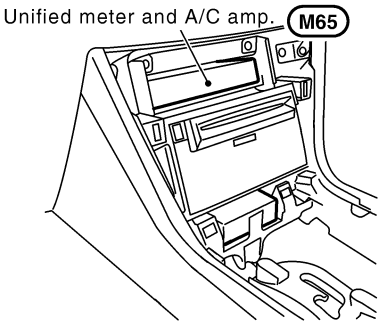
Driver side view with instrument lower panel removed



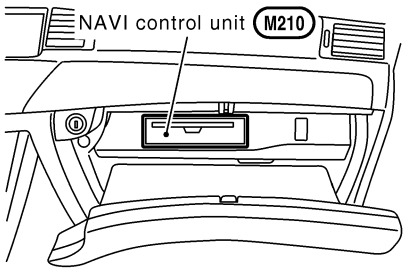
Behind dash side lower LH finisher



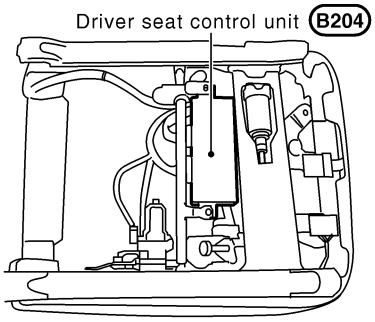
View with cluster lid C removed



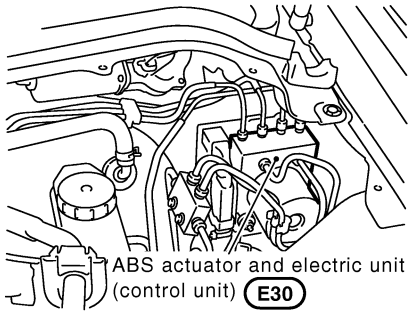
Inside of glove box



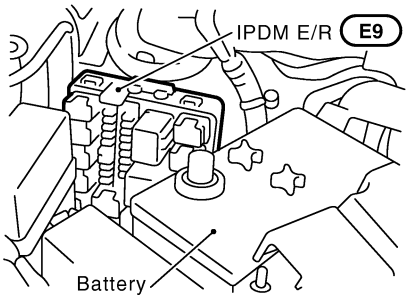
Under driver's seat



Rear left of engine room



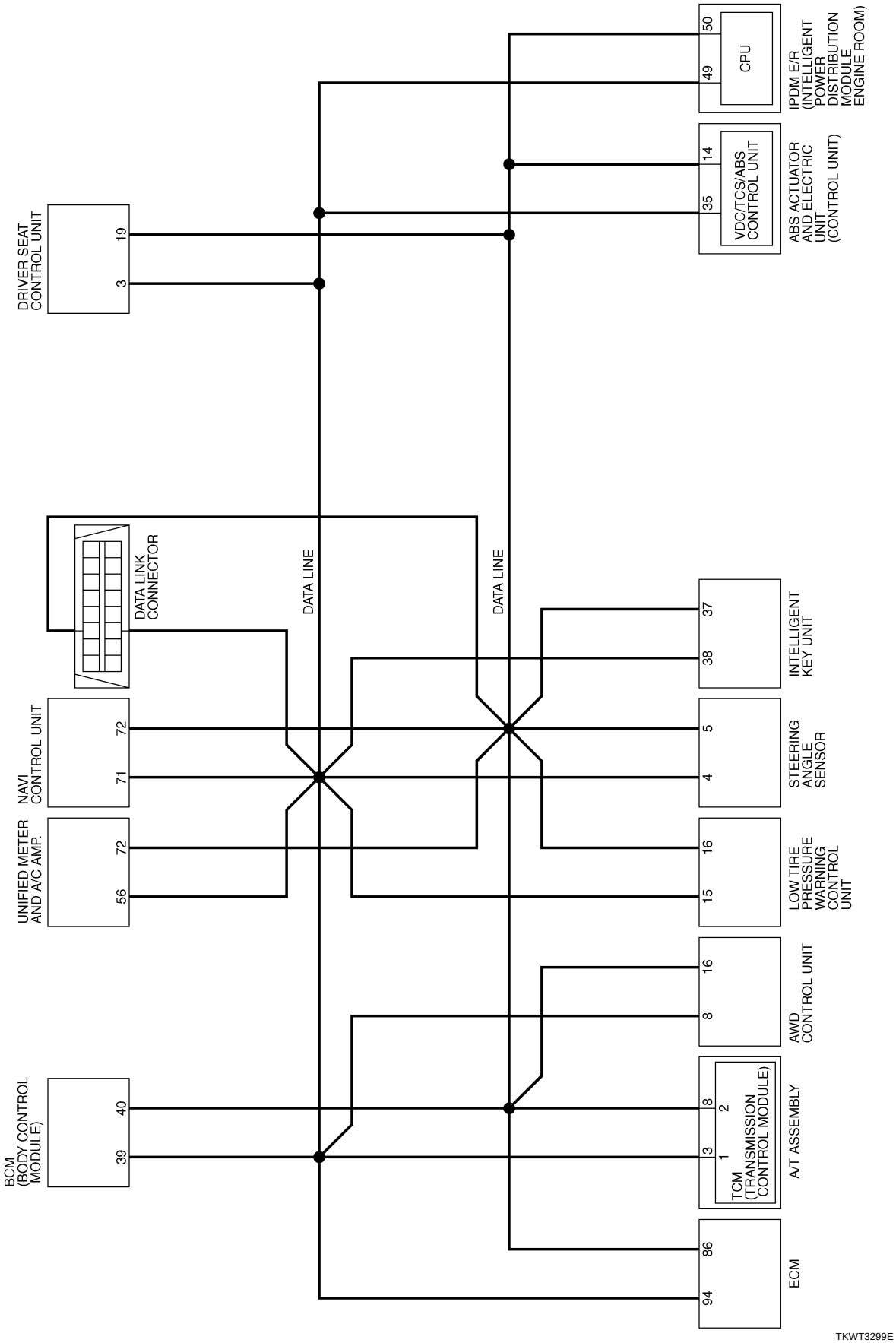
View with cowl top cover removed



PKIC0610E

Schematic

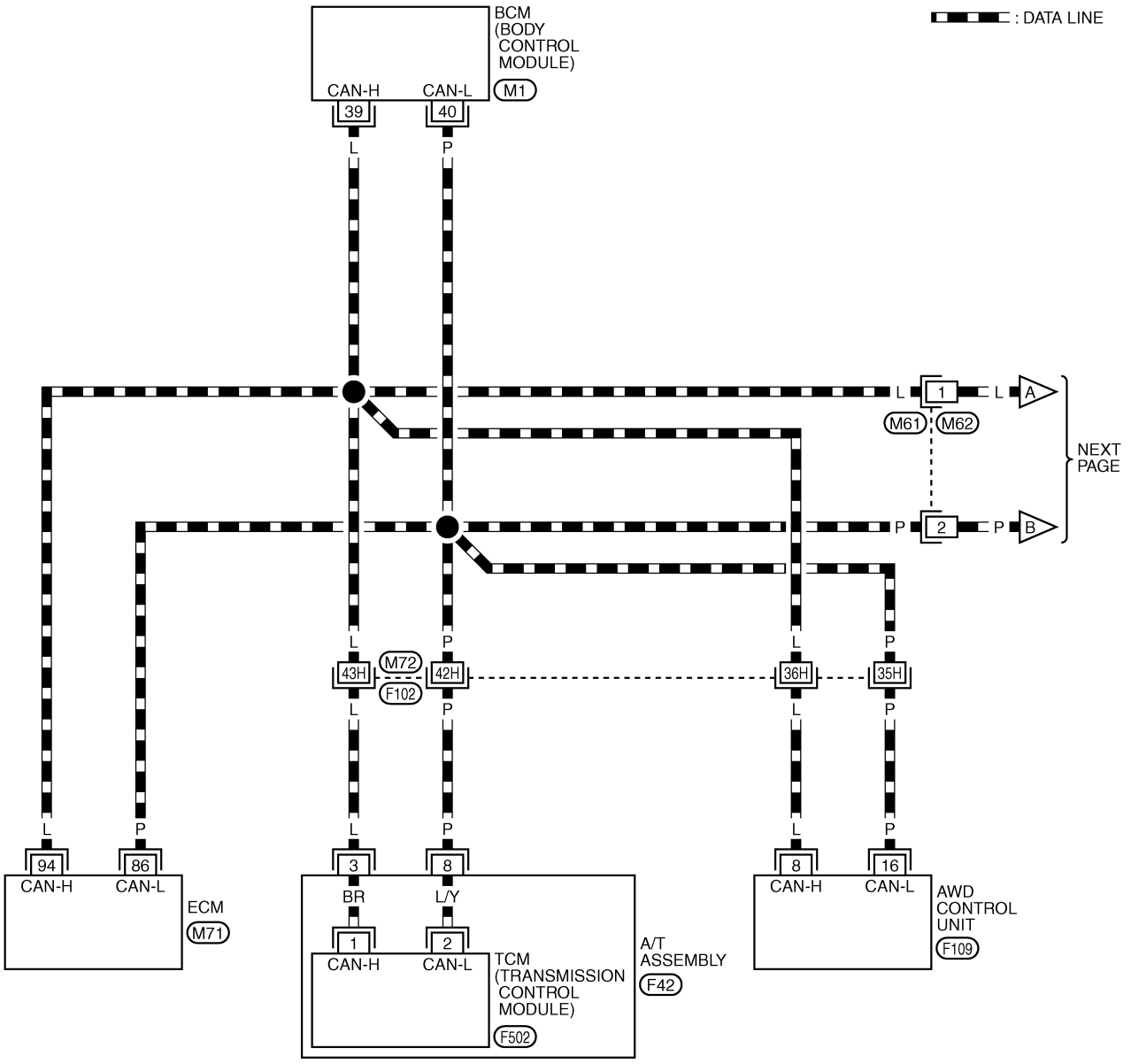
NKS0045E

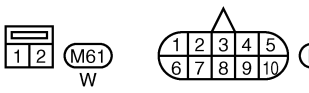


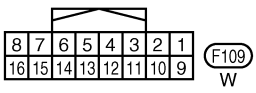
Wiring Diagram — CAN —

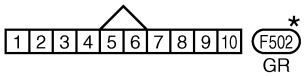
NKS0045F

LAN-CAN-42









REFER TO THE FOLLOWING.

F102 -SUPER MULTIPLE JUNCTION (SMJ)

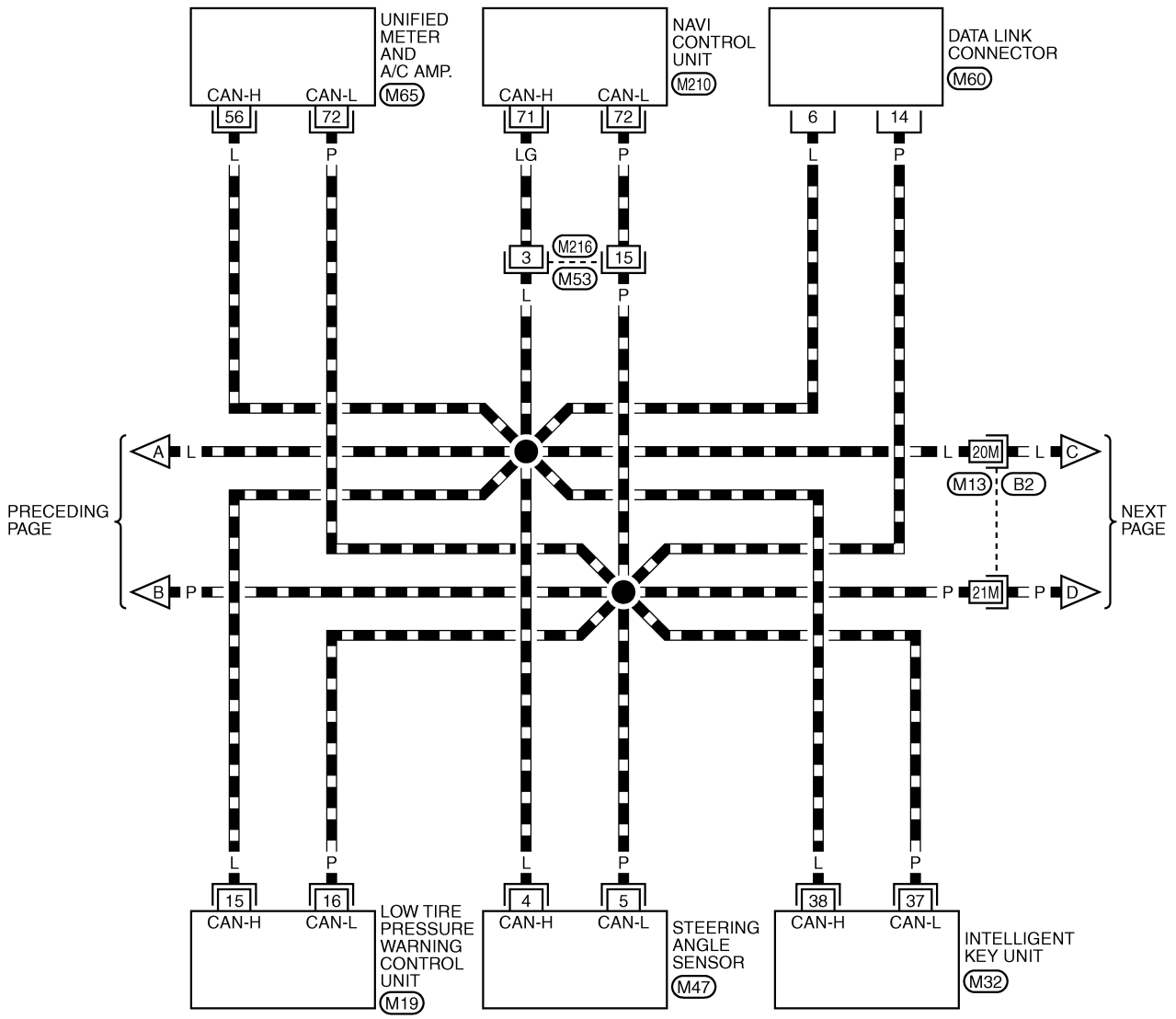
M1 , M71 -ELECTRICAL UNITS

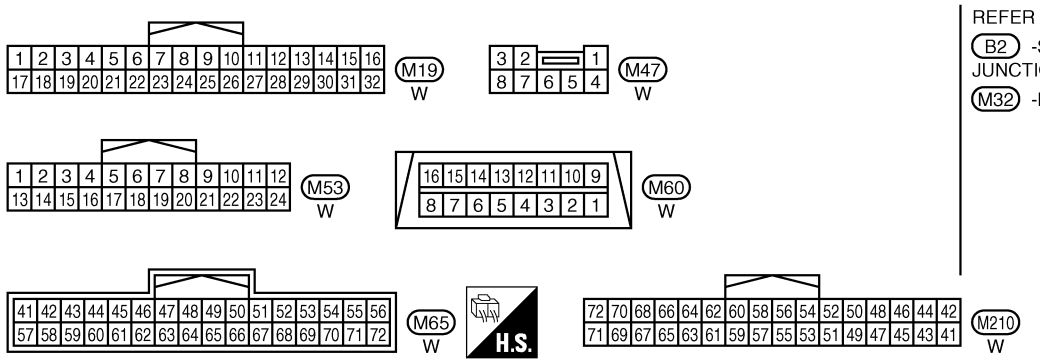
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3300E

LAN-CAN-43

: DATA LINE





REFER TO THE FOLLOWING.

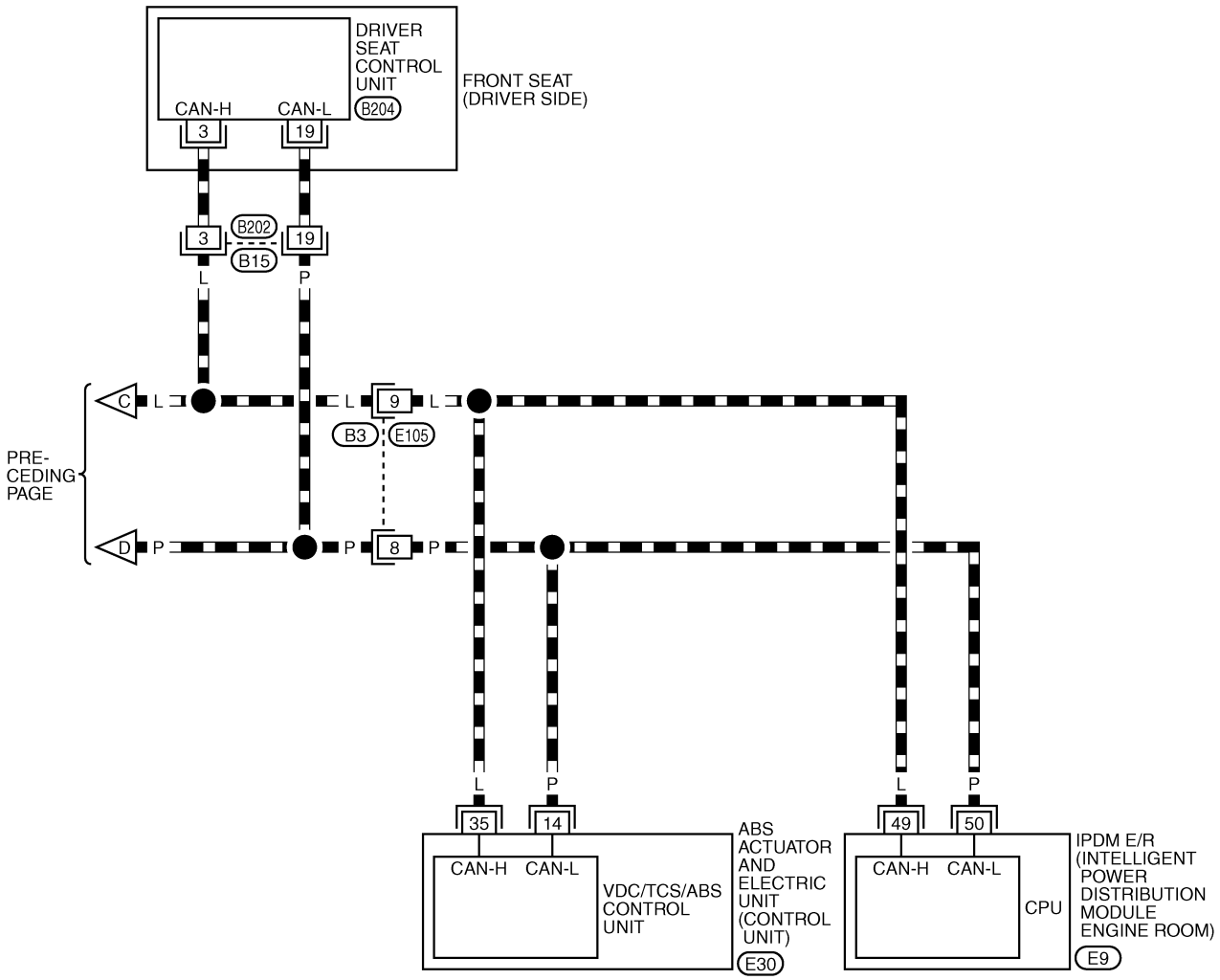
B2 -SUPER MULTIPLE JUNCTION (SMJ)

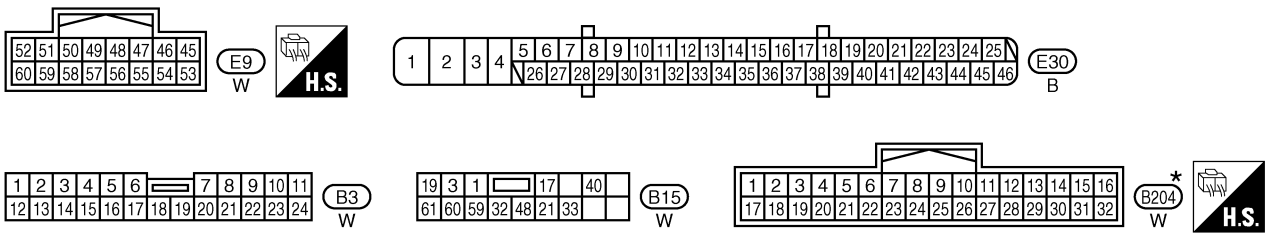
M32 -ELECTRICAL UNITS

TKWT3301E

LAN-CAN-44

: DATA LINE





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

TKWT3302E

Check Sheet

NKS0045G

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

Check sheet table

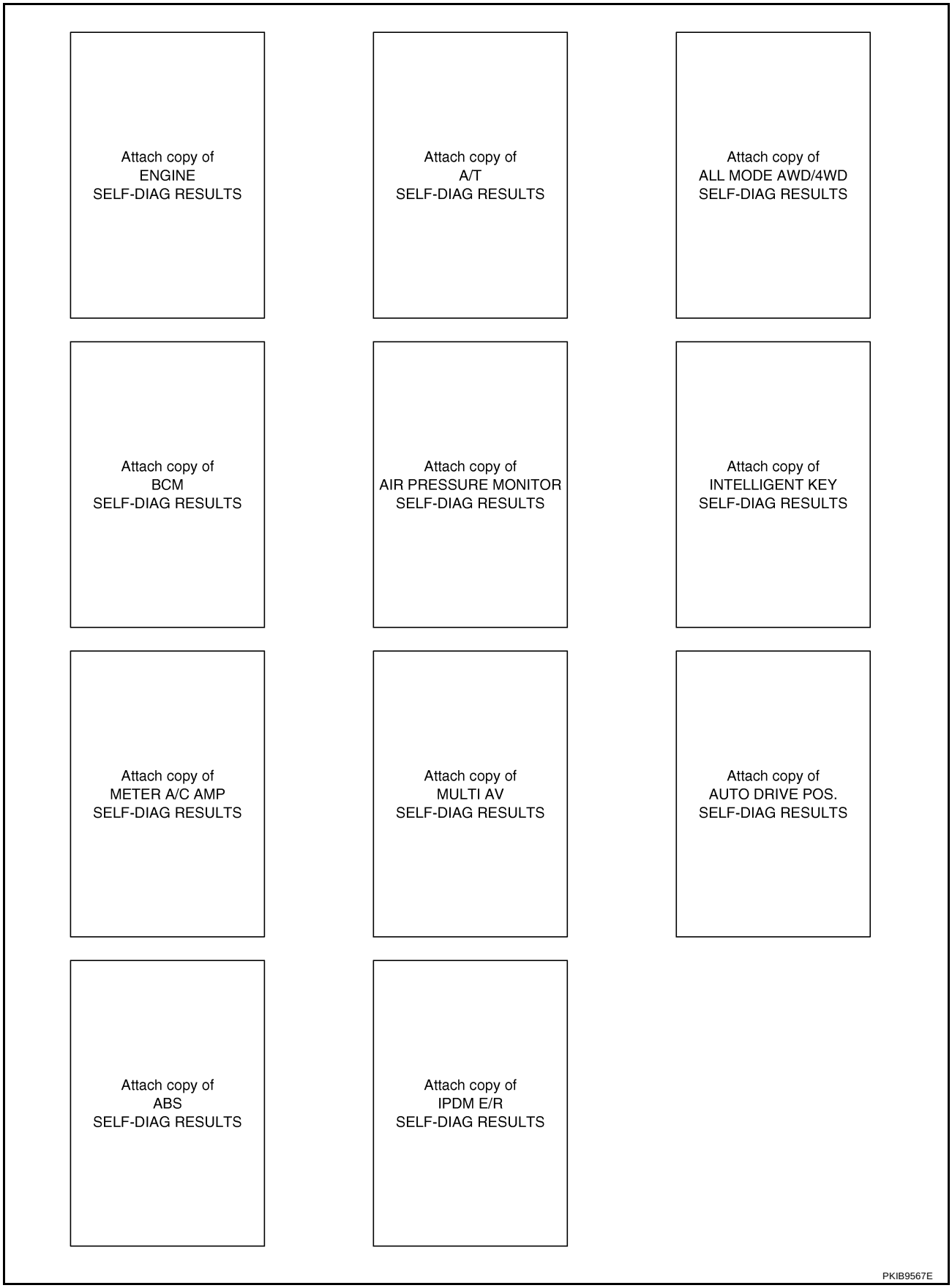
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	AWD/ 4WD	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM 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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Attach copy of
BCM
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Attach copy of
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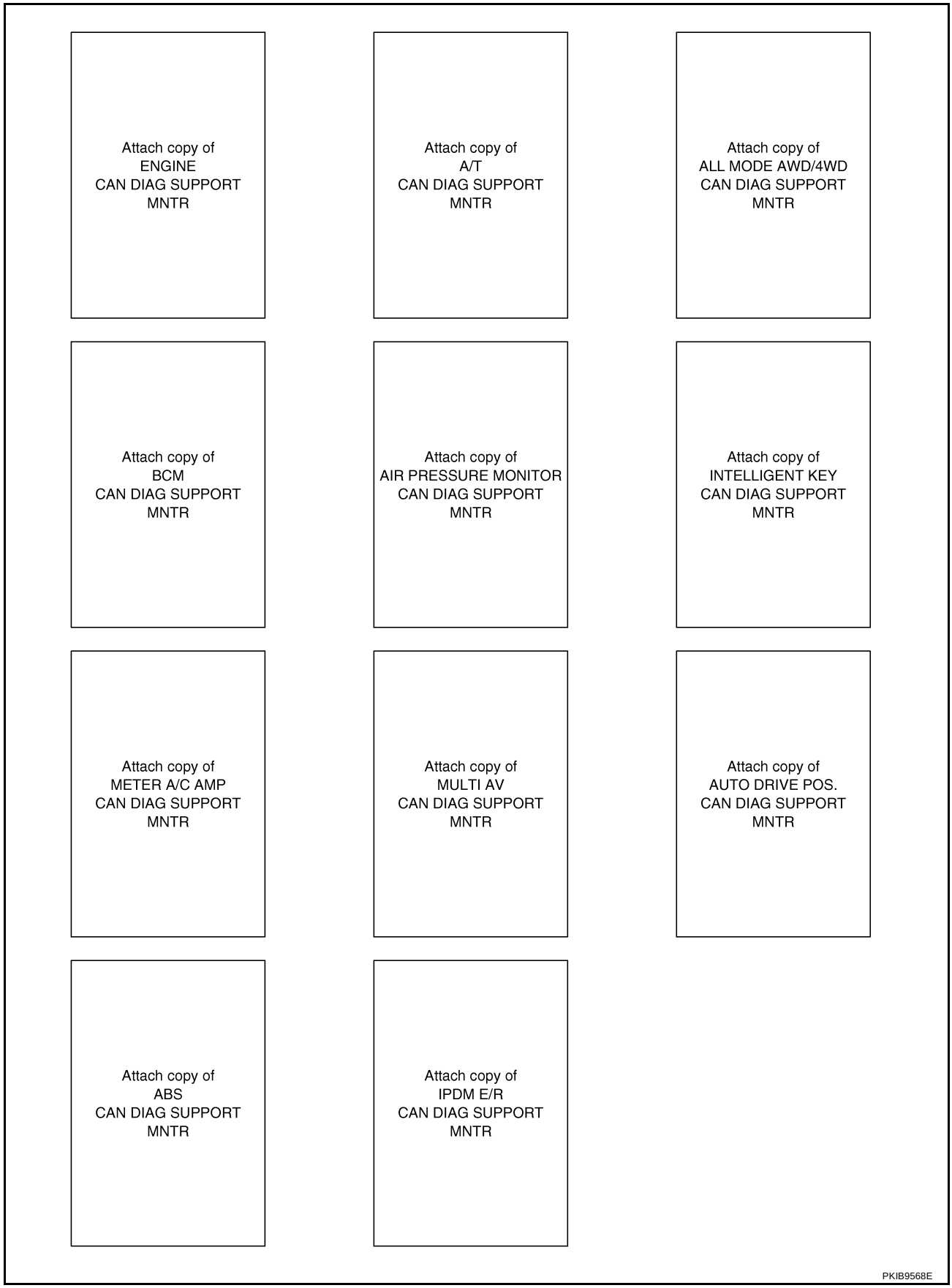
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CAN DIAG SUPPORT
MNTR
PKIB9568E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

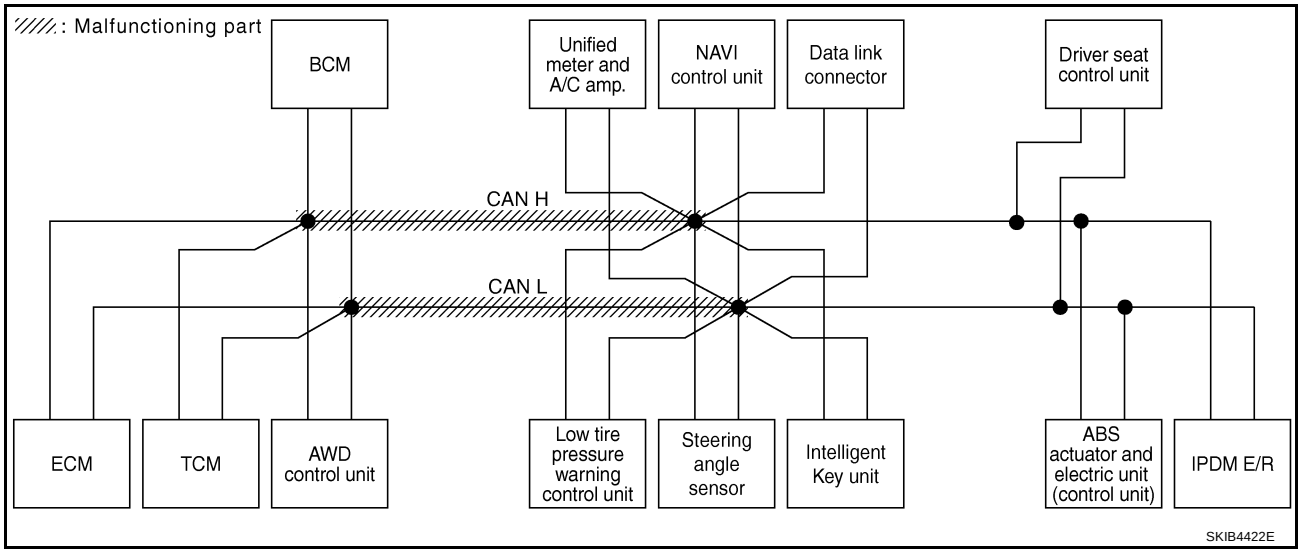
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	—	—	—	✓	—	✓	✓	CAN COMM CIRCUIT (U1000)	✓
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	✓	—	✓	—	✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	✓	—	✓	—	✓	—
BCM	✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	UNKWN	✓	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	✓	—	—	—	—	—	—	—	—	UNKWN	—	✓	—
INTELLIGENT KEY	No indication	—	UNKWN	✓	✓	—	✓	—	—	—	UNKWN	—	UNKWN	UNKWN	✓	—
METER A/C AMP	No indication	—	UNKWN	✓	✓	✓	✓	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	✓	—
MULTI AV	No indication	—	UNKWN	✓	—	—	✓	UNKWN	—	—	UNKWN	—	—	UNKWN	✓	—
AUTO DRIVE POS.	✓	NG	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—
ABS	—	NG	UNKWN	✓	✓	✓	—	—	UNKWN	—	—	—	—	—	✓	—
IPDM E/R	No indication	—	UNKWN	✓	—	—	✓	—	—	—	—	—	—	—	✓	—

PKIB8520E

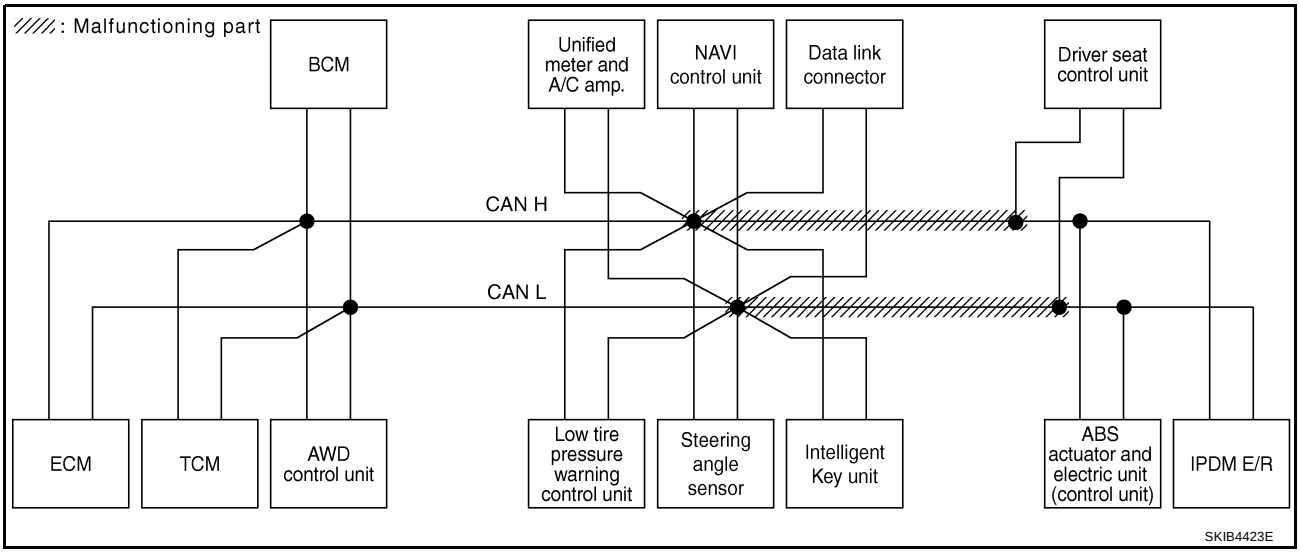


Case 2

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												
				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

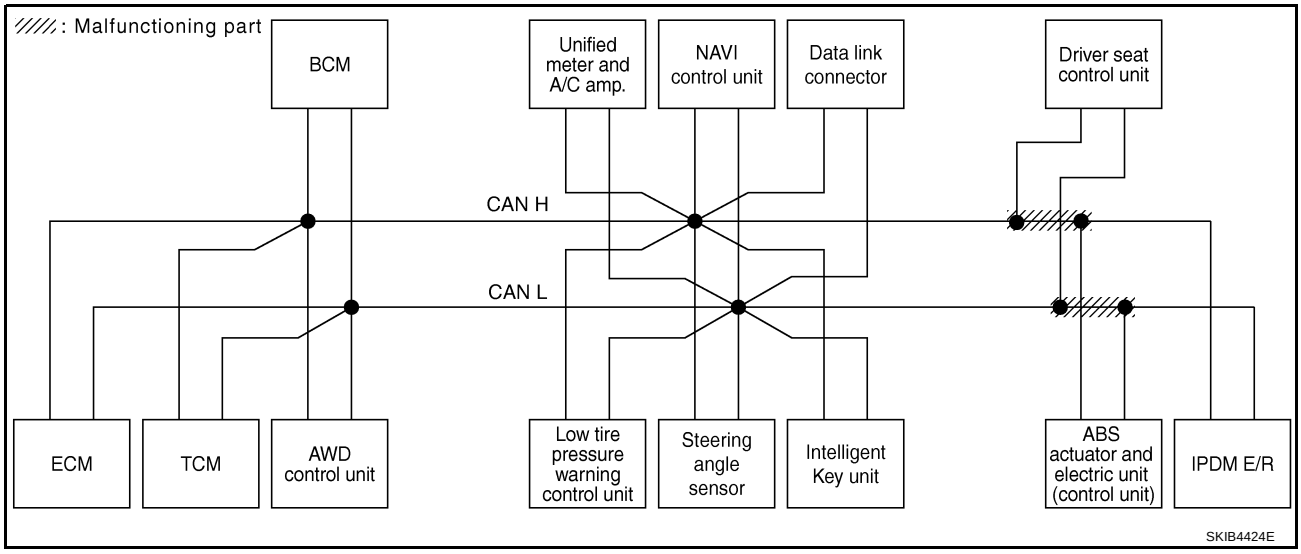


Case 3

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												
				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)	—

PKIB8522E



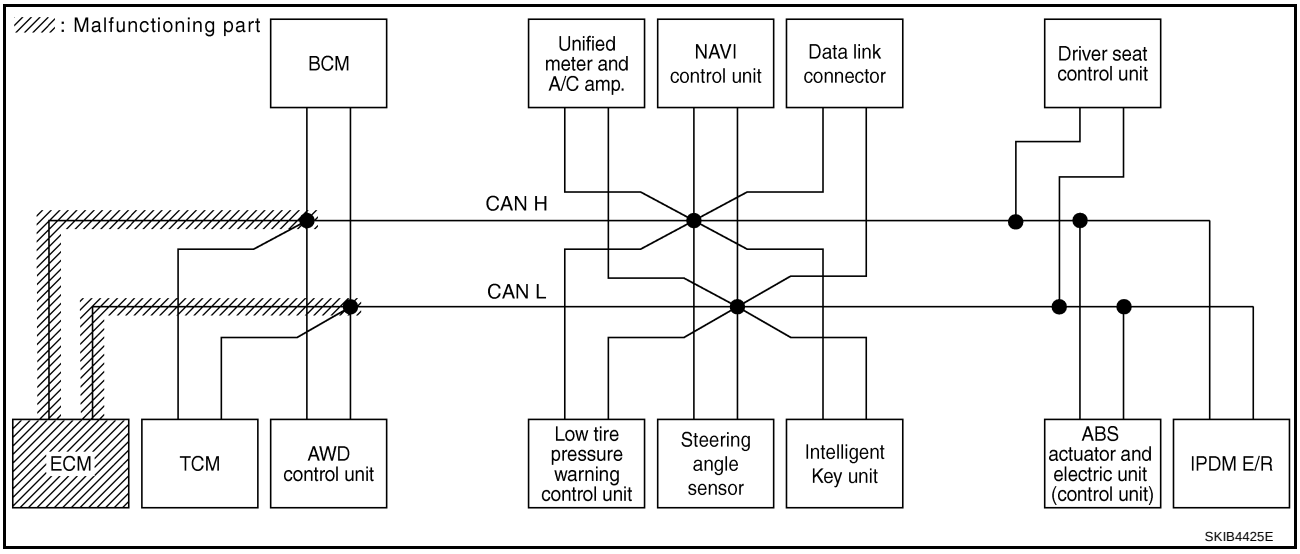
SKIB4424E

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		
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)	—

PKIB8523E



SKIB4425E

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 (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)	—

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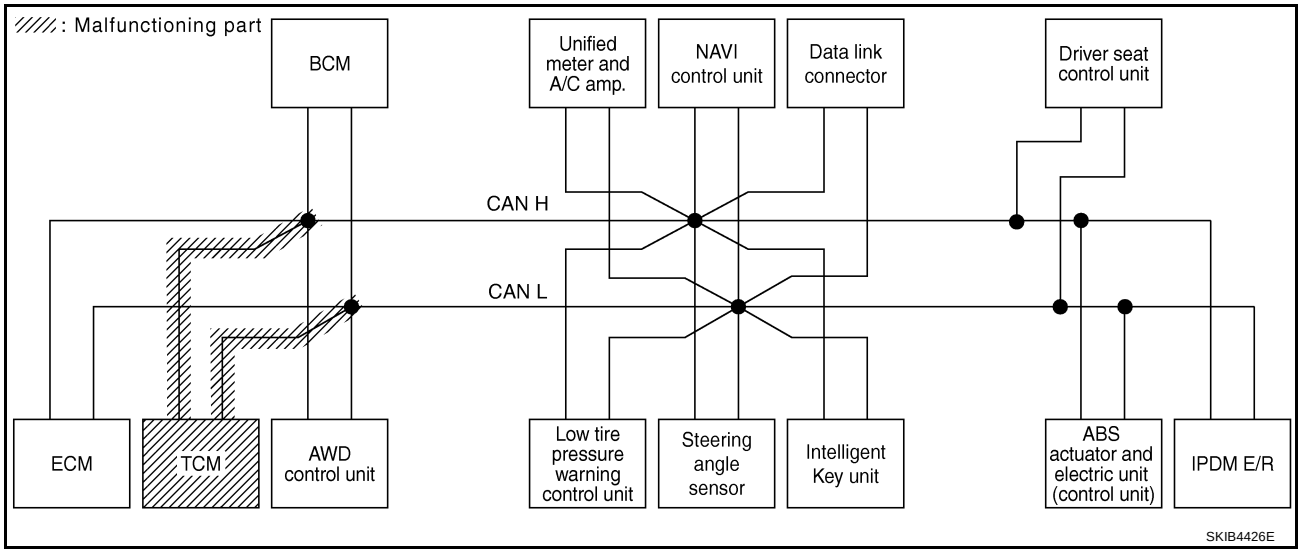

SKIB4426E

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)	—

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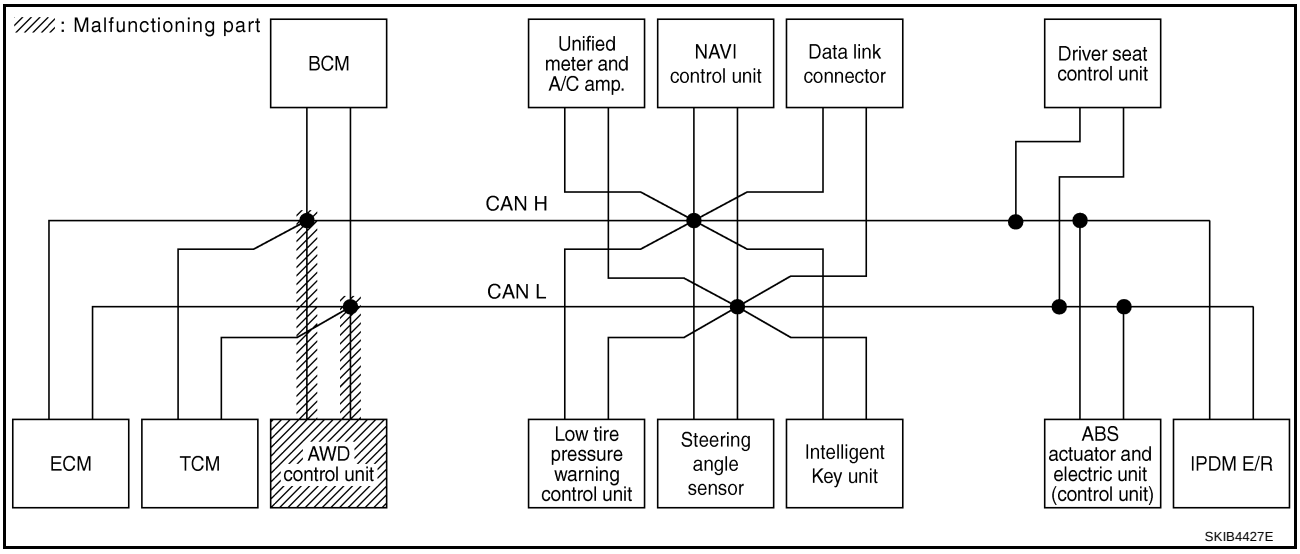

Case 7

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) ✓	—

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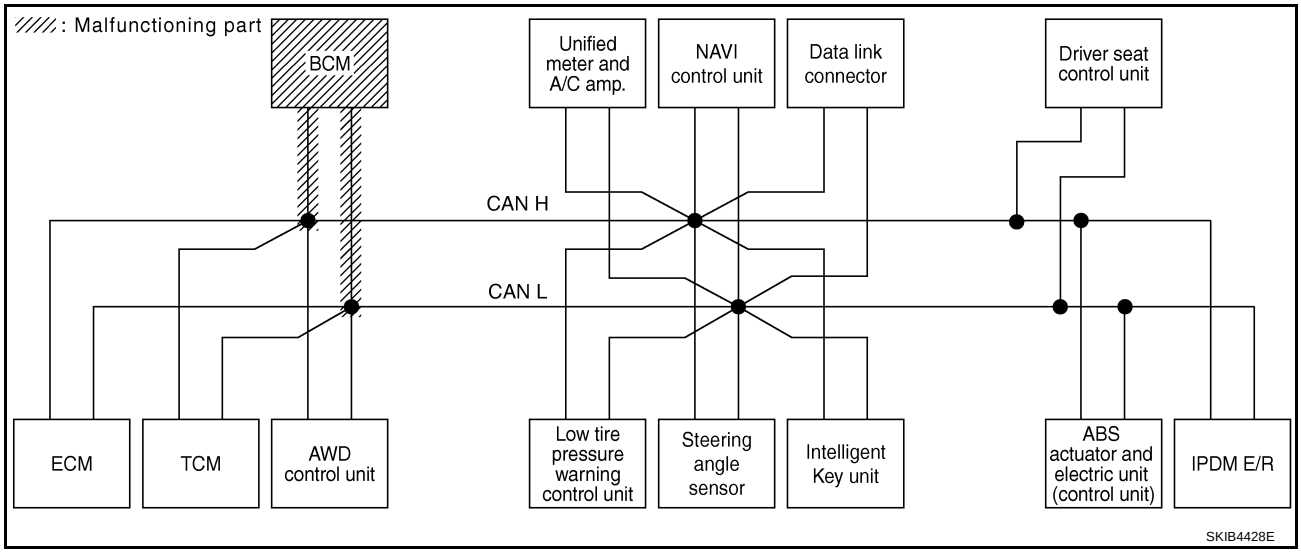


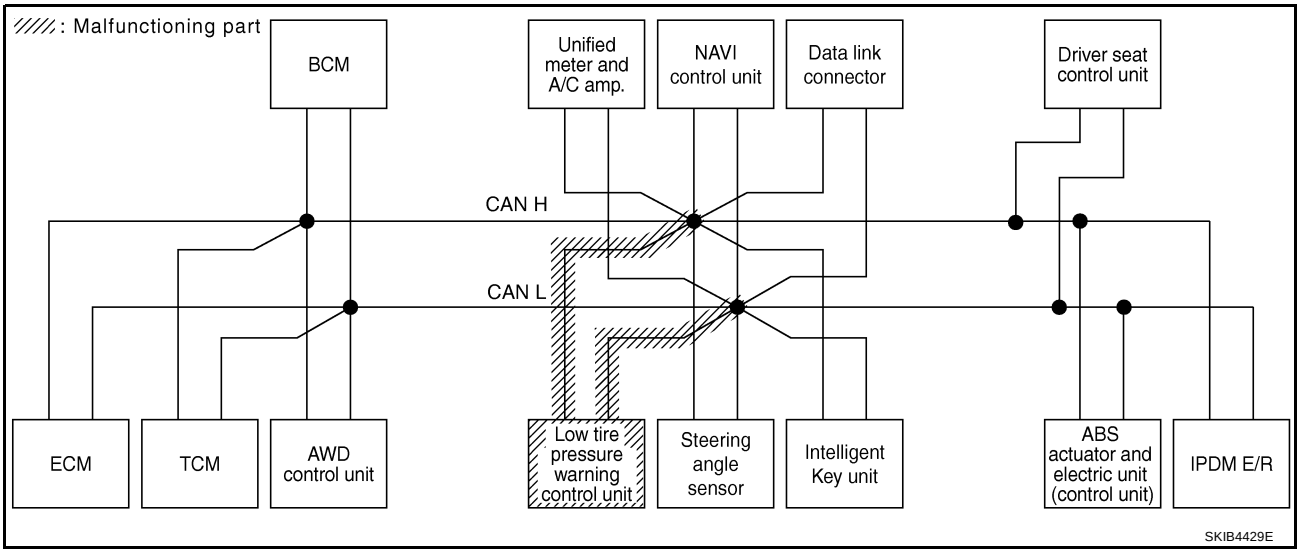
SKIB4428E

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												
				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)	—

PKIB8527E



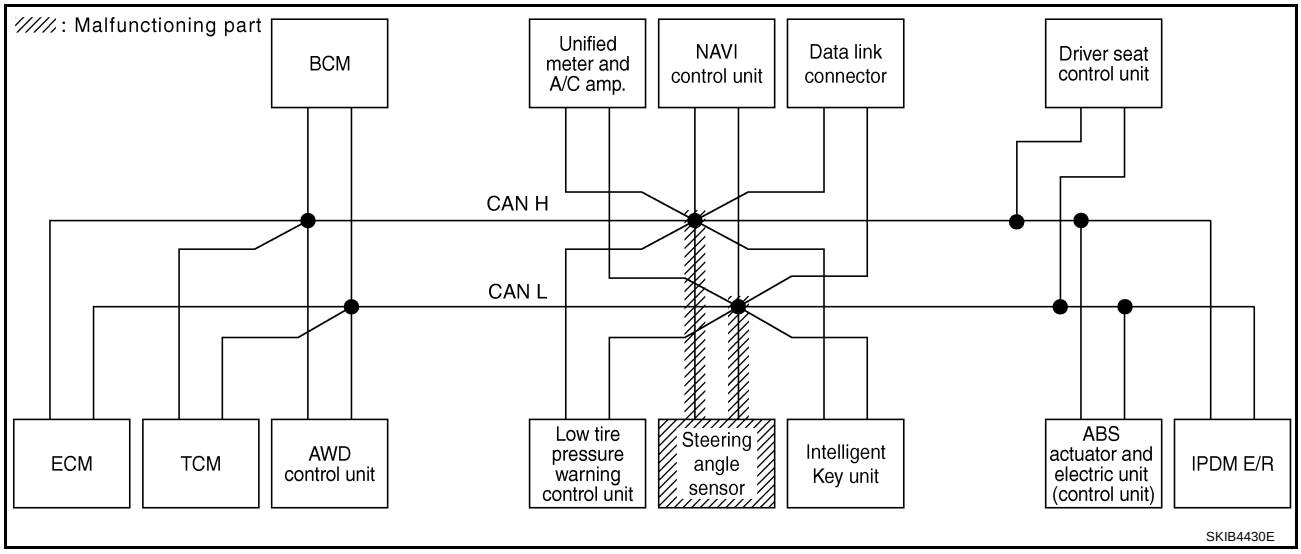
SKIB4429E

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

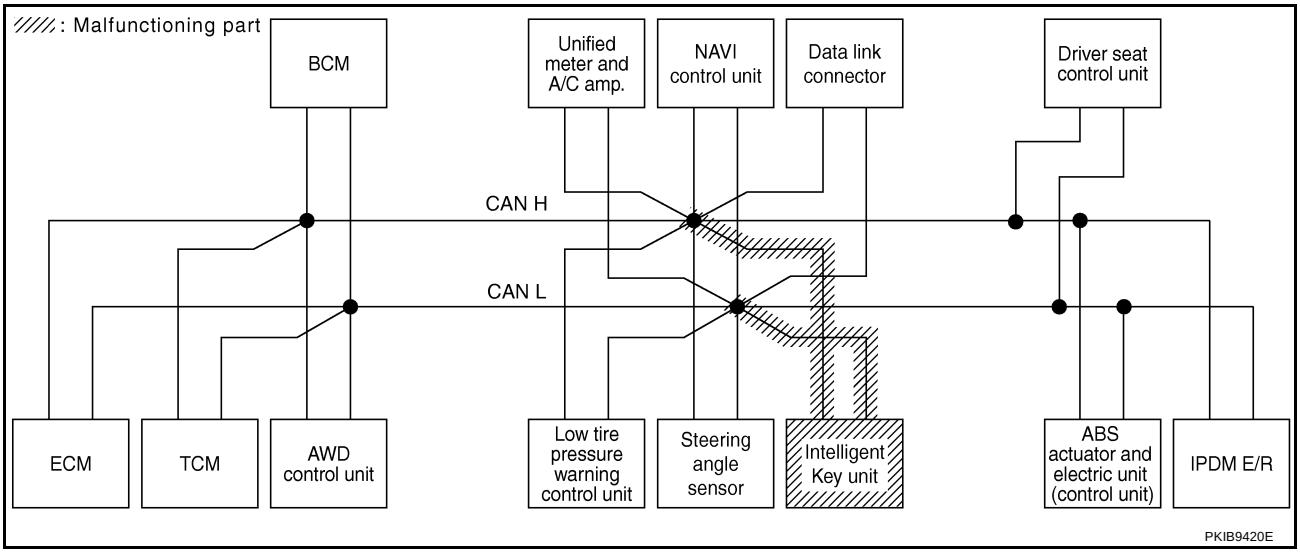


Case 10

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



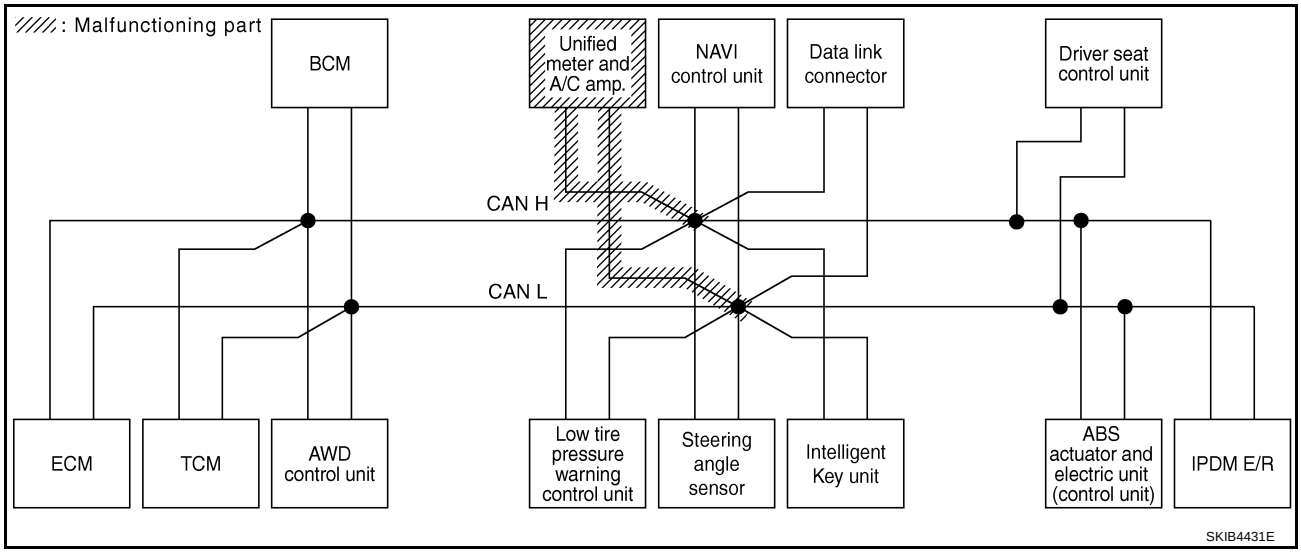
PKIB9420E

Case 11

Check unified meter and A/C amp. circuit. Refer to LAN-595, "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	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



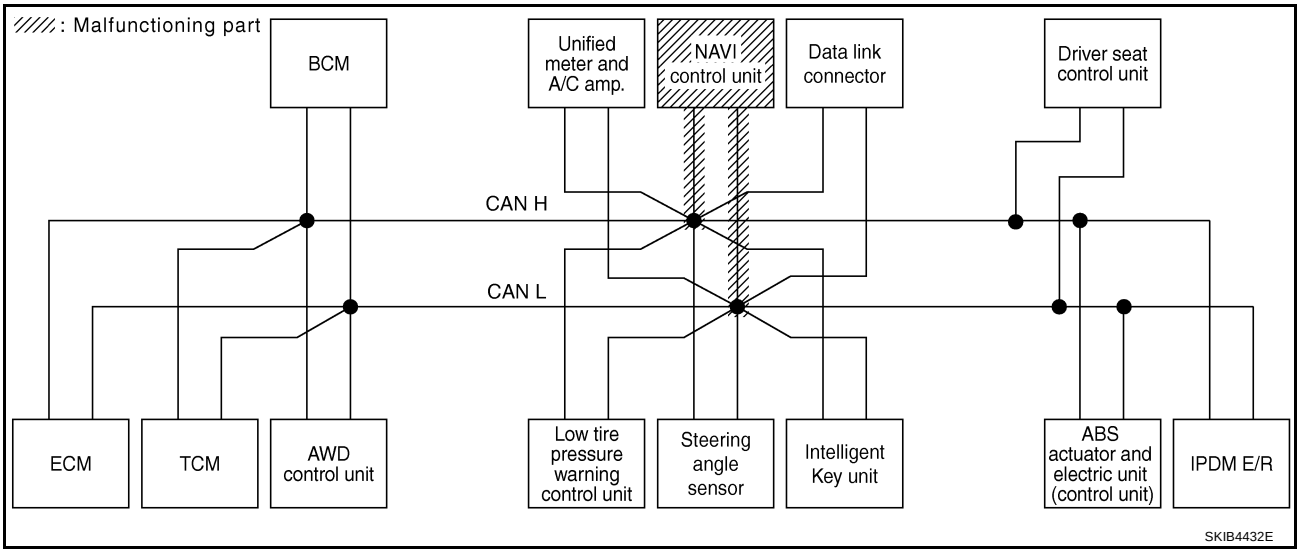
SKIB4431E

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	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



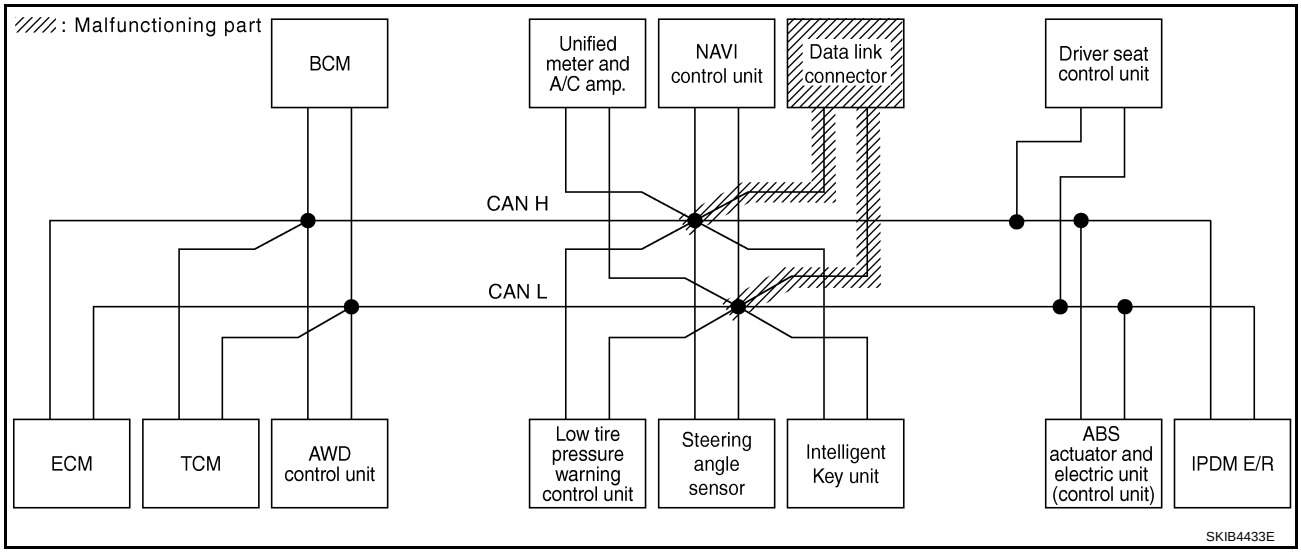
SKIB4432E

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

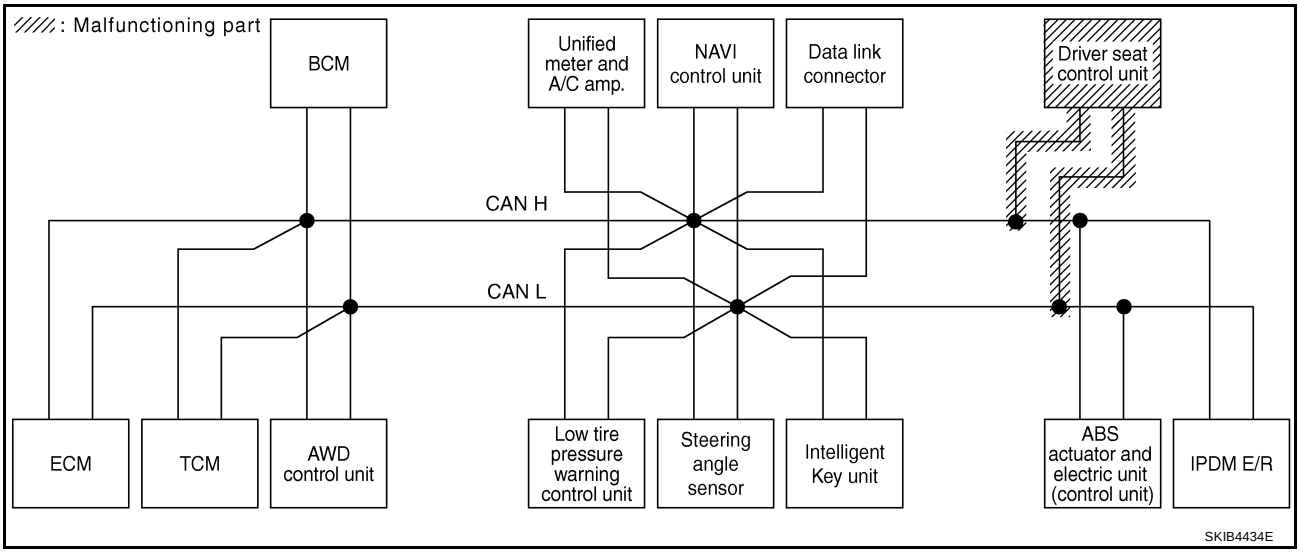


Case 14

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		
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



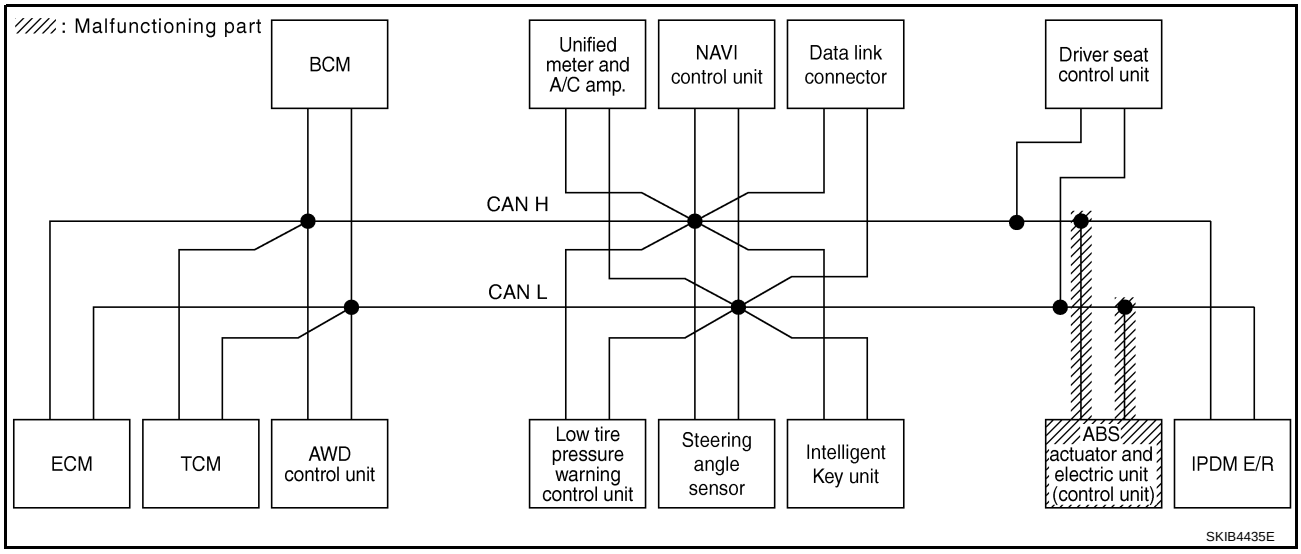
SKIB4434E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8534E

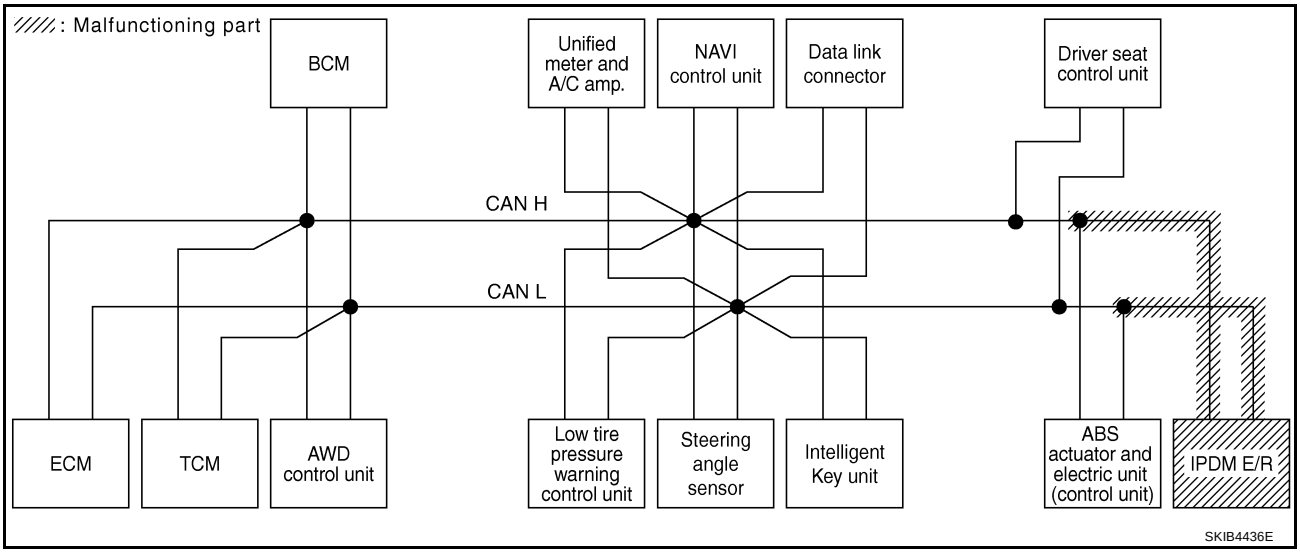


Case 16

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



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	—	—	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	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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	—	—	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)	—

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: 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	SELF-DIAG RESULTS	
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

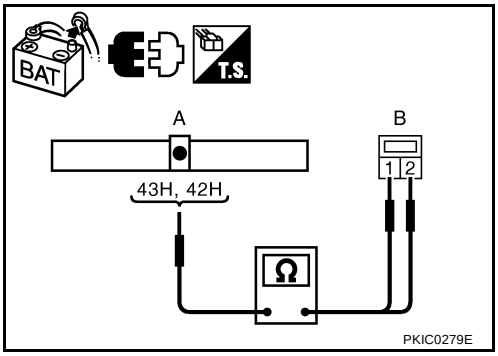
OK or NG

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



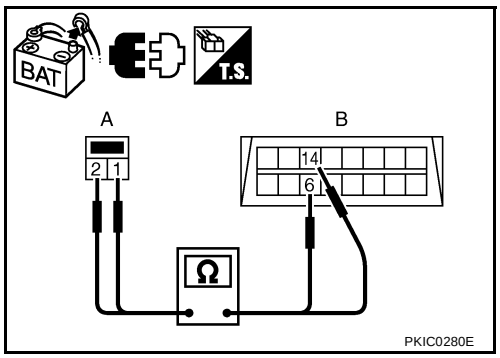
PKIC0279E

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

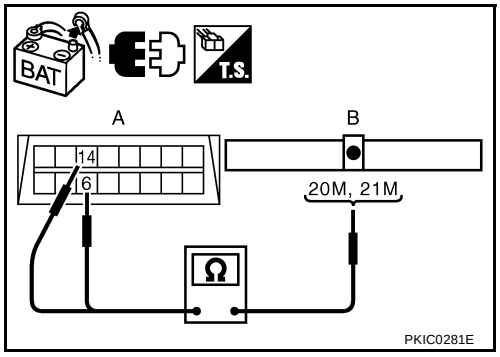
OK or NG

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

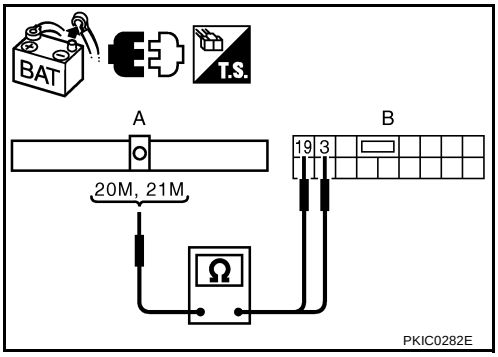
OK >> GO TO 3.

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

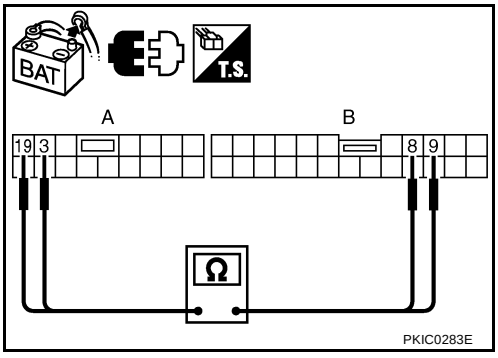
OK >> GO TO 2.

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

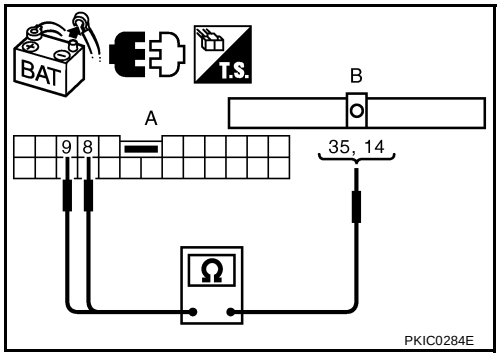
OK >> GO TO 3.

NG >> Repair harness.

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

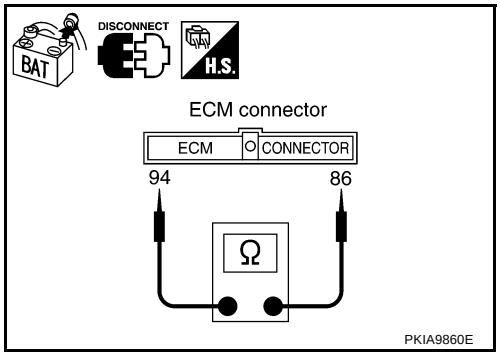
OK >> GO TO 2.

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

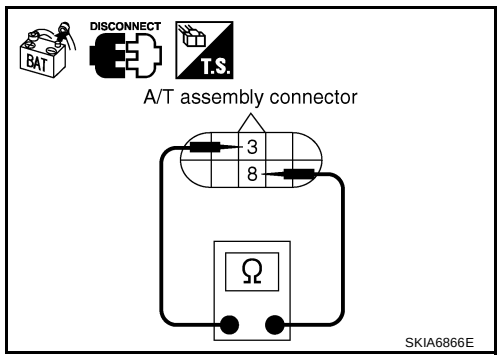
OK >> GO TO 2.

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.

AWD Control Unit Circuit Inspection

NKS0045M

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

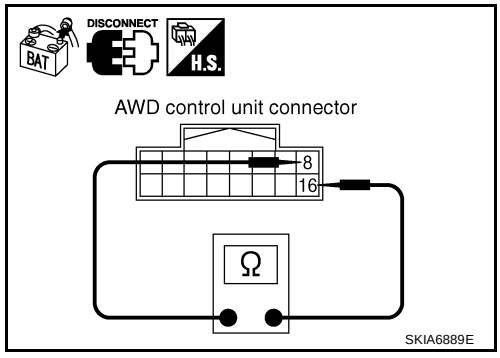
OK or NG

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.

BCM Circuit Inspection

NKS0045N

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).

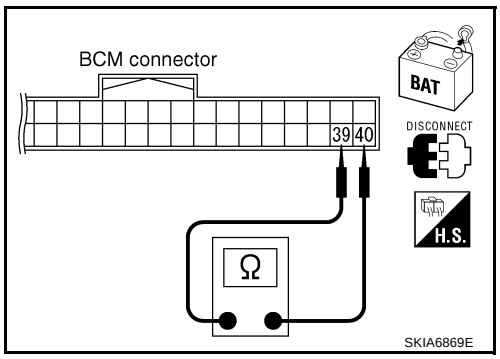
OK or NG

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

NKS0045O

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

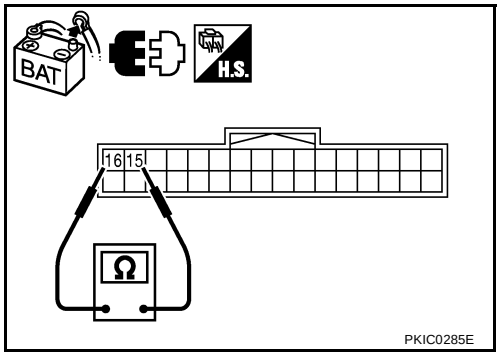
OK >> GO TO 2.

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

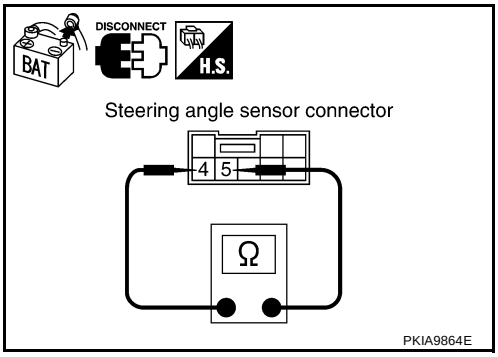
OK >> GO TO 2.

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.

Intelligent Key Unit Circuit Inspection

NKS0045Q

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).

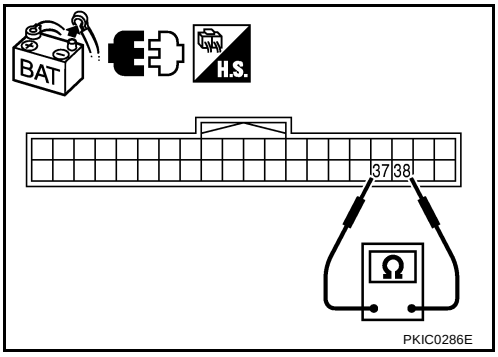
OK or NG

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

NKS0045R

1. CHECK CONNECTOR

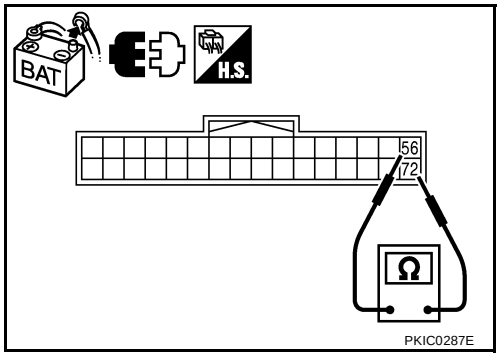
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS0045S

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).

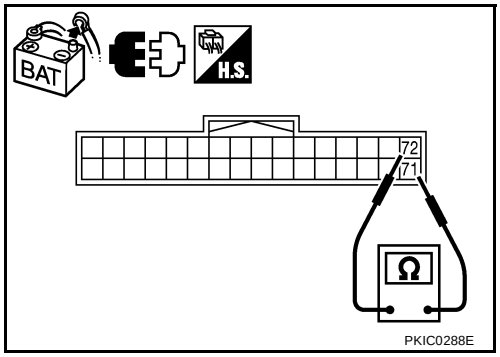
– NAVI control unit connector
– Harness connector M216
– Harness connector M53

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

NKS0045T

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).

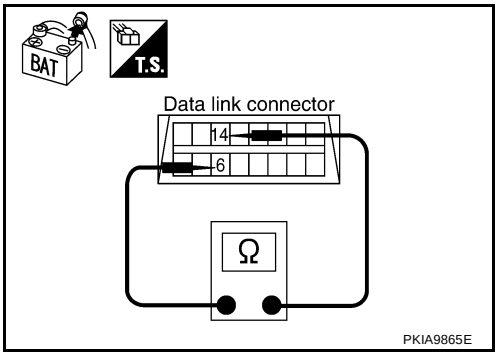
OK or NG

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

NKS0045U

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

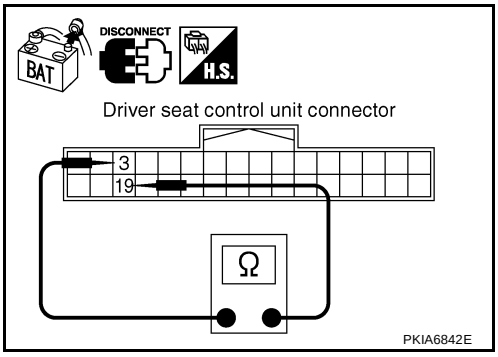
OK >> GO TO 2.

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

NKS0045V

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).

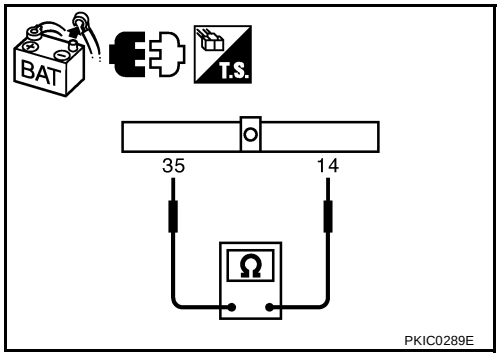
OK or NG

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

NKS0045W

1. CHECK CONNECTOR

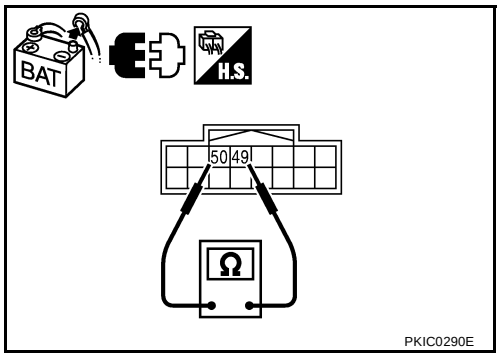
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

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

NKS0045X

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

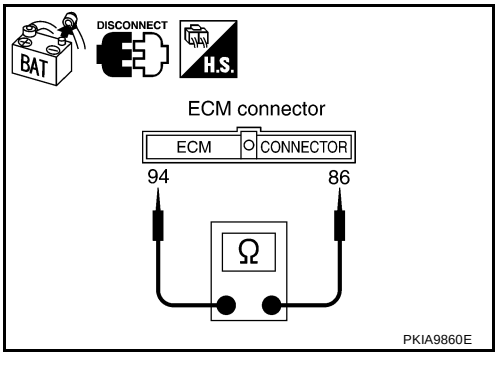
2. Check continuity between ECM harness connector terminals.

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.

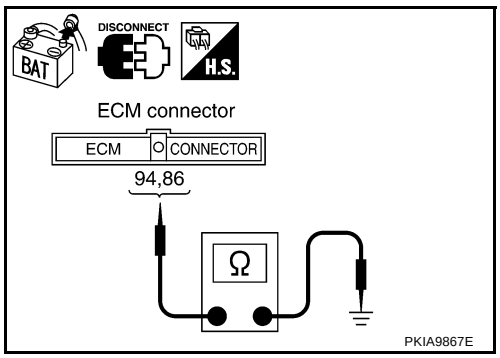
- Harness between ECM and harness connector M72
- Harness between ECM and BCM
- Harness between ECM and harness connector M61



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ECM harness connector terminals and ground.

ECM connector	Terminal	Ground	Continuity
M71	94		No
	86		No



OK or NG

OK >> GO TO 4.

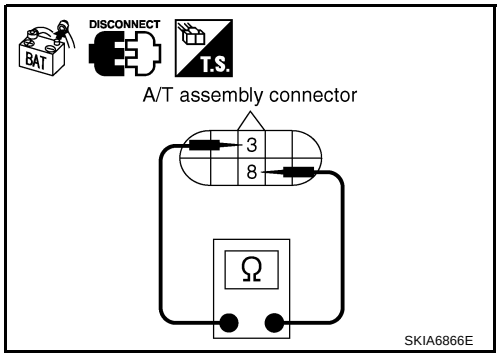
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

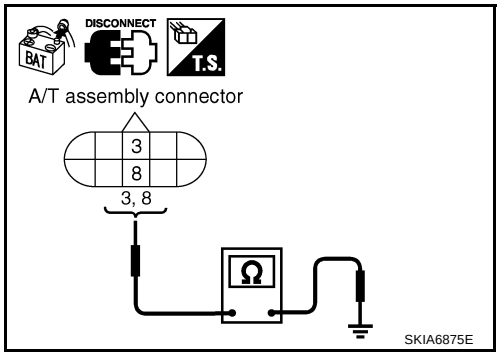
OK >> GO TO 5.

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

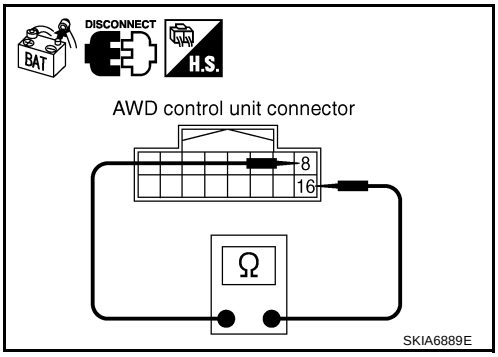
OK >> GO TO 6.

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



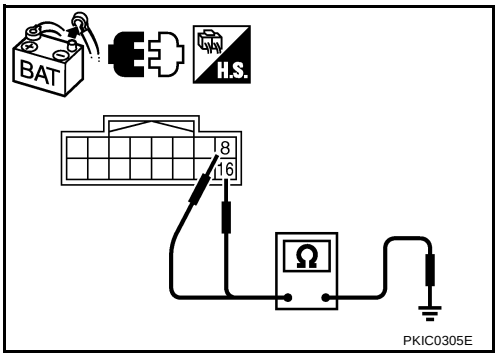
OK or NG

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



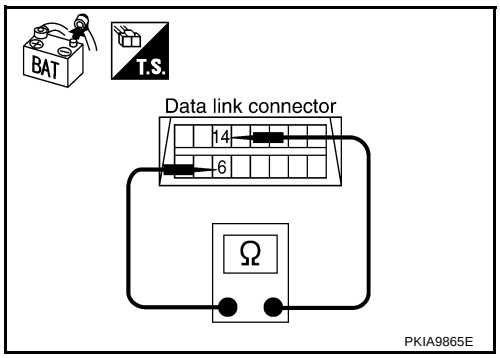
OK or NG

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

8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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.

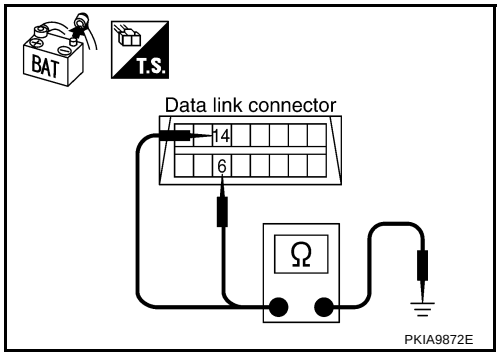
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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.

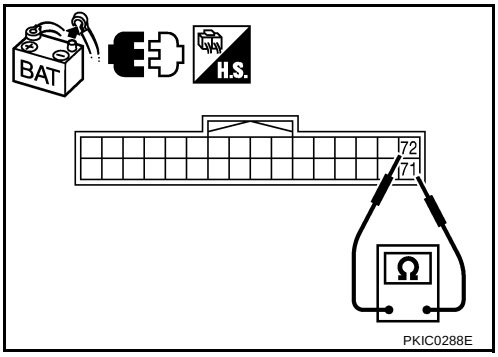
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

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



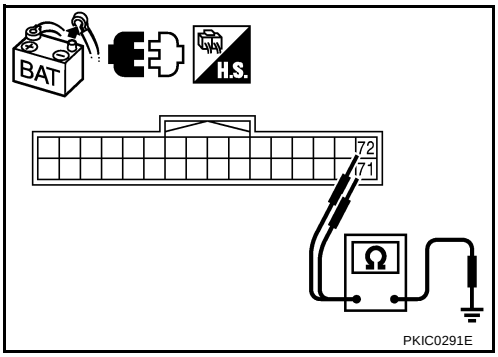
OK or NG

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



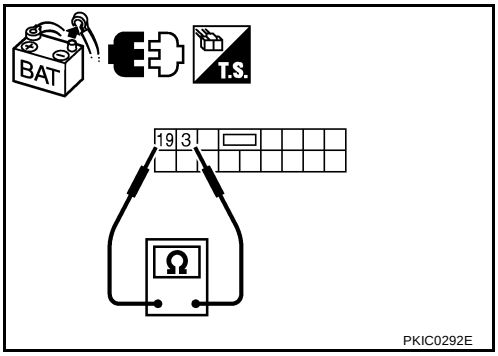
OK or NG

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

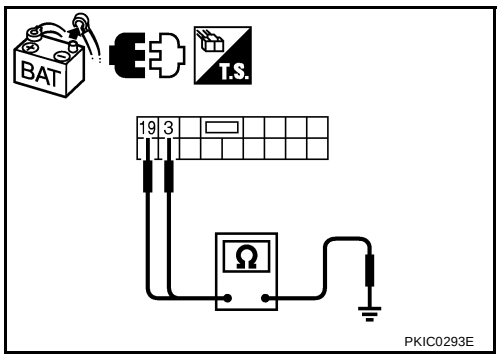
OK >> GO TO 13.
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- Harness between harness connector B15 and harness connector B2
- Harness between harness connector B15 and harness connector B3

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.

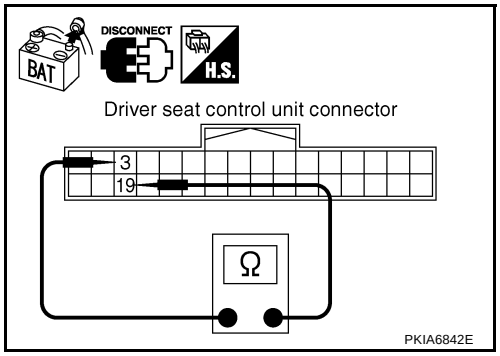
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

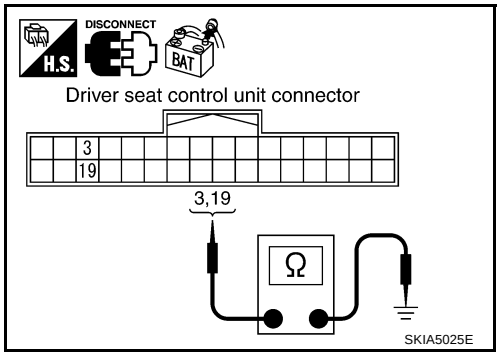
OK >> GO TO 15.

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

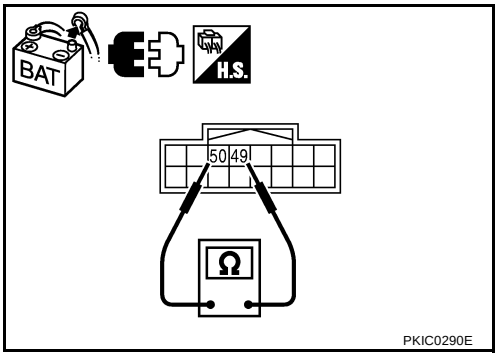
OK >> GO TO 16.

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.

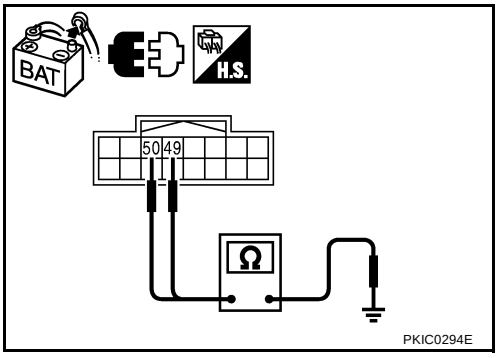
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

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

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)

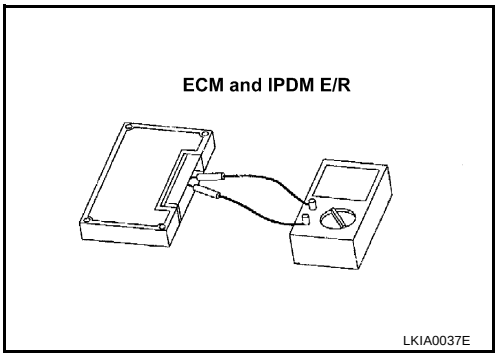
18. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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.

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”" .

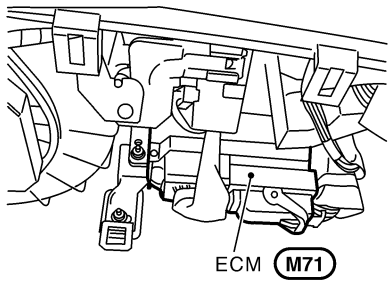
CAN SYSTEM (TYPE 13)

PFP:23710

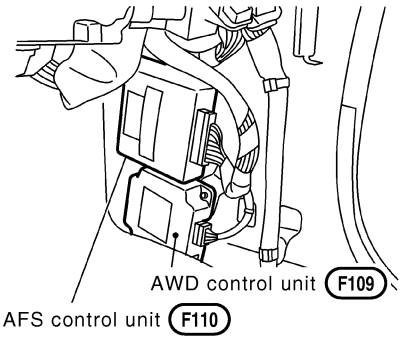
Component Parts and Harness Connector Location

NKS0045Z

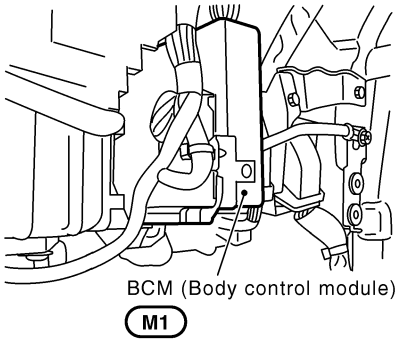
Passenger side view with instrument lower cover removed



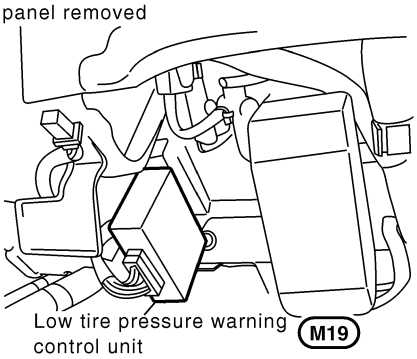
Behind dash side lower RH finisher



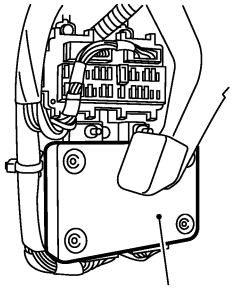
Passenger side view with instrument lower cover removed



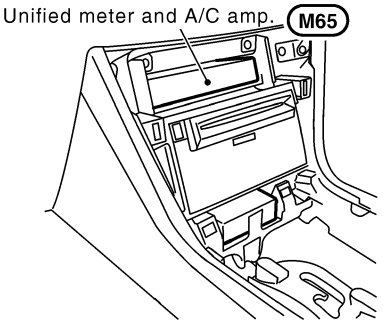
Driver side view with instrument lower panel removed



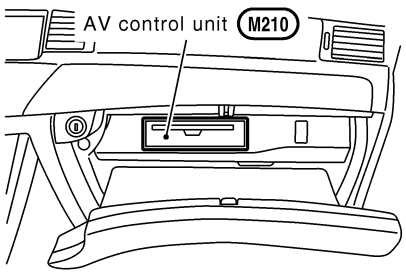
Behind dash side lower LH finisher



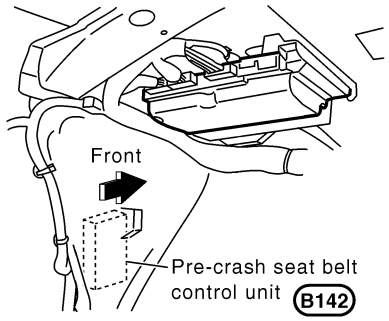
View with cluster lid C removed



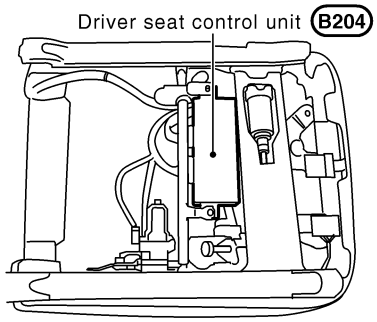
Inside of glove box



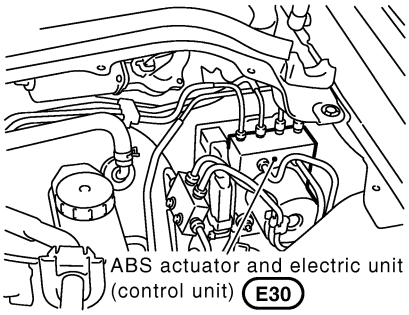
View with trunk side LH finisher and front finisher removed



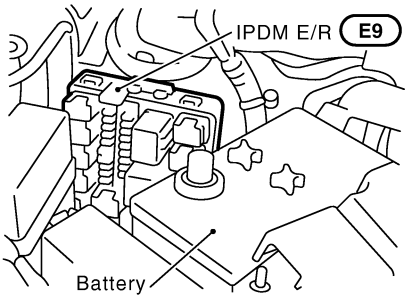
Under driver's seat



Rear left of engine room



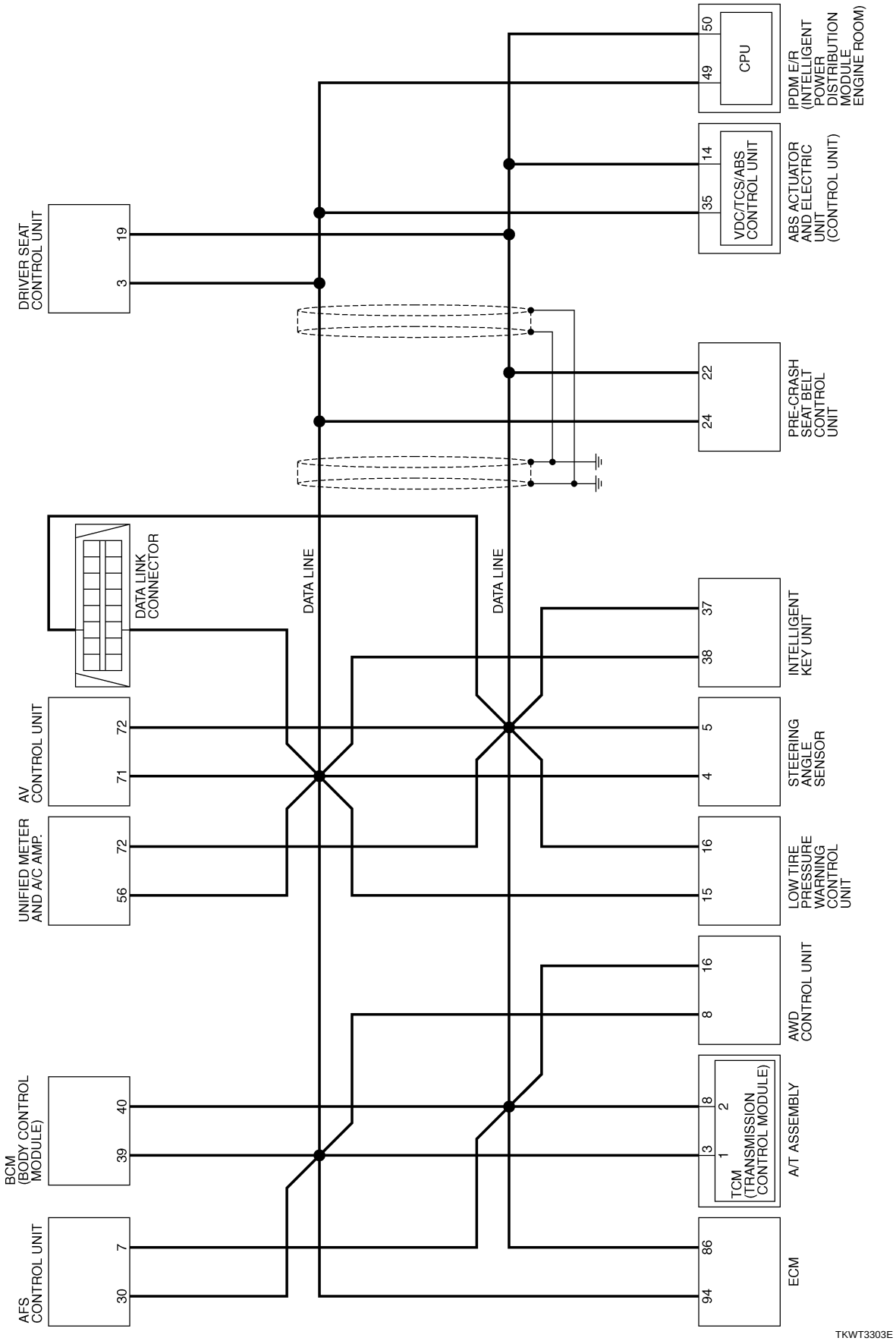
View with cowl top cover removed



PKIC0611E

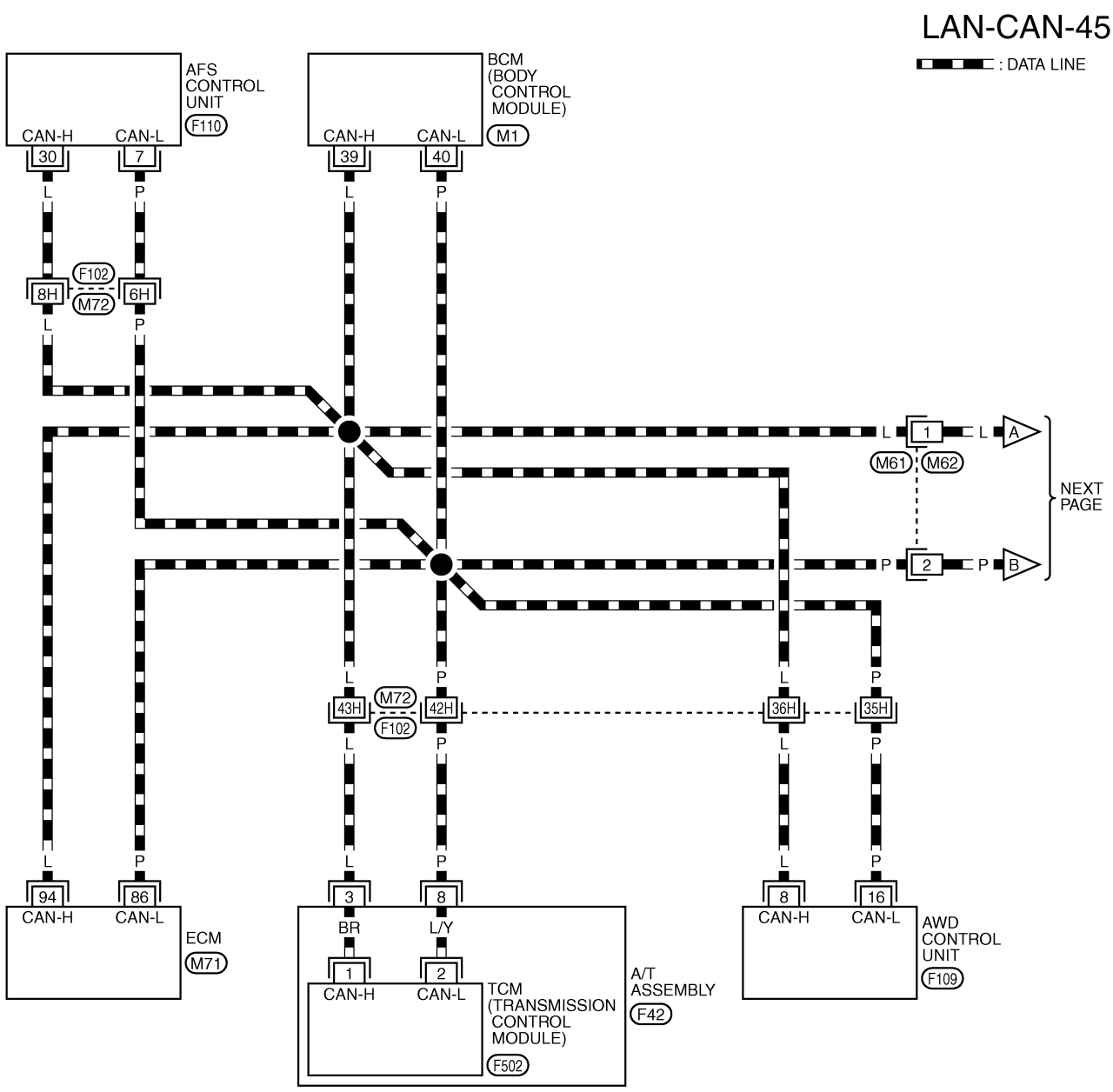
Schematic

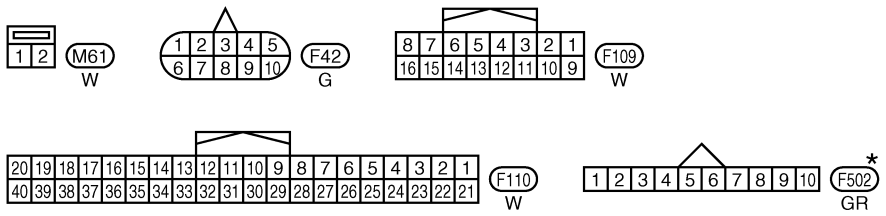
NKS00460



Wiring Diagram — CAN —

NKS00461





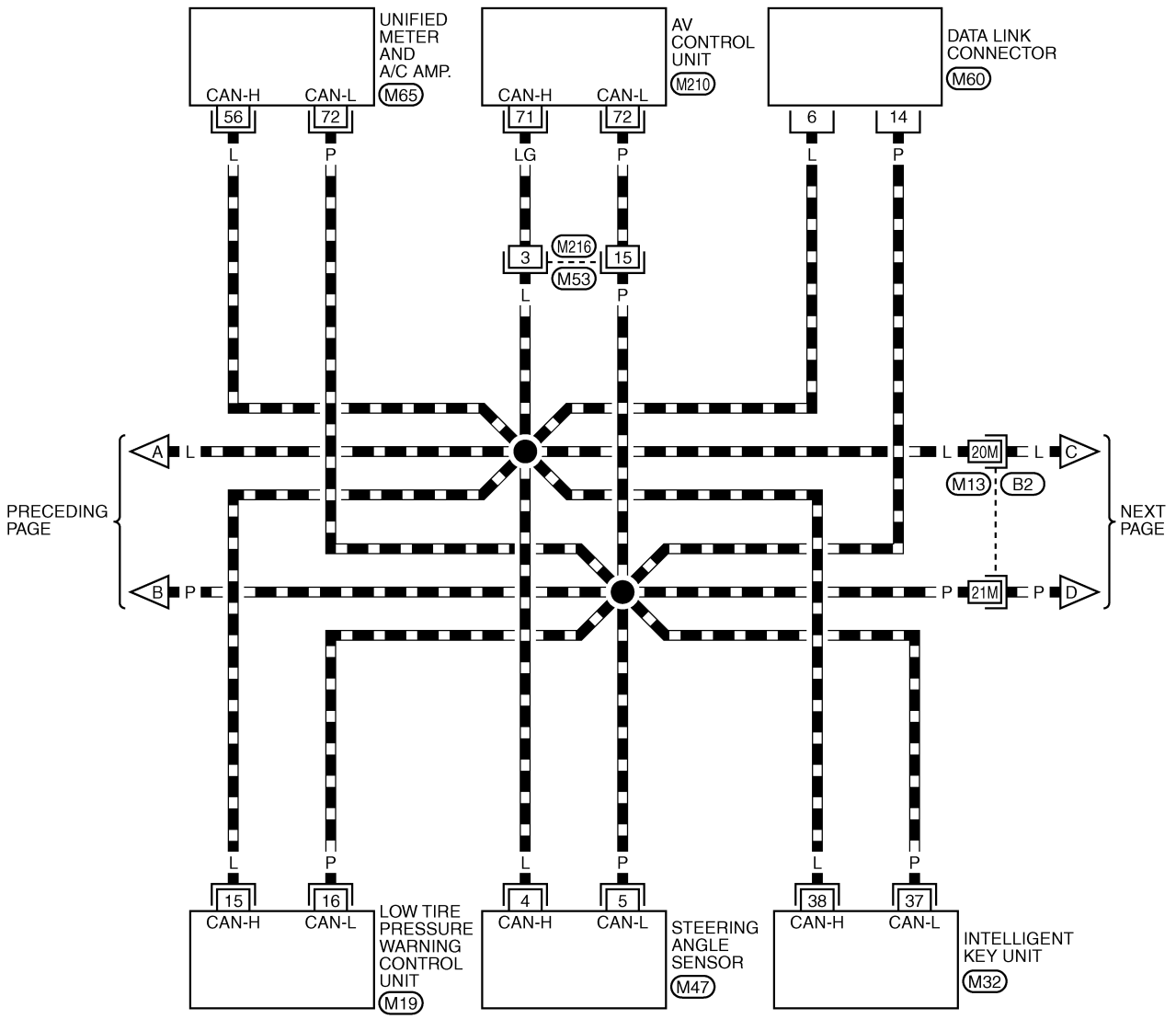
REFER TO THE FOLLOWING.
F102 -SUPER MULTIPLE JUNCTION (SMJ)
M1 , M71 -ELECTRICAL UNITS

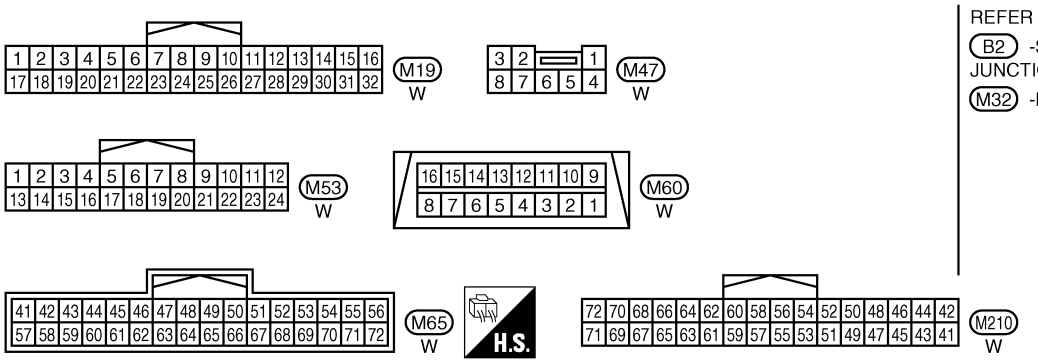
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3304E

LAN-CAN-46

: DATA LINE





REFER TO THE FOLLOWING.

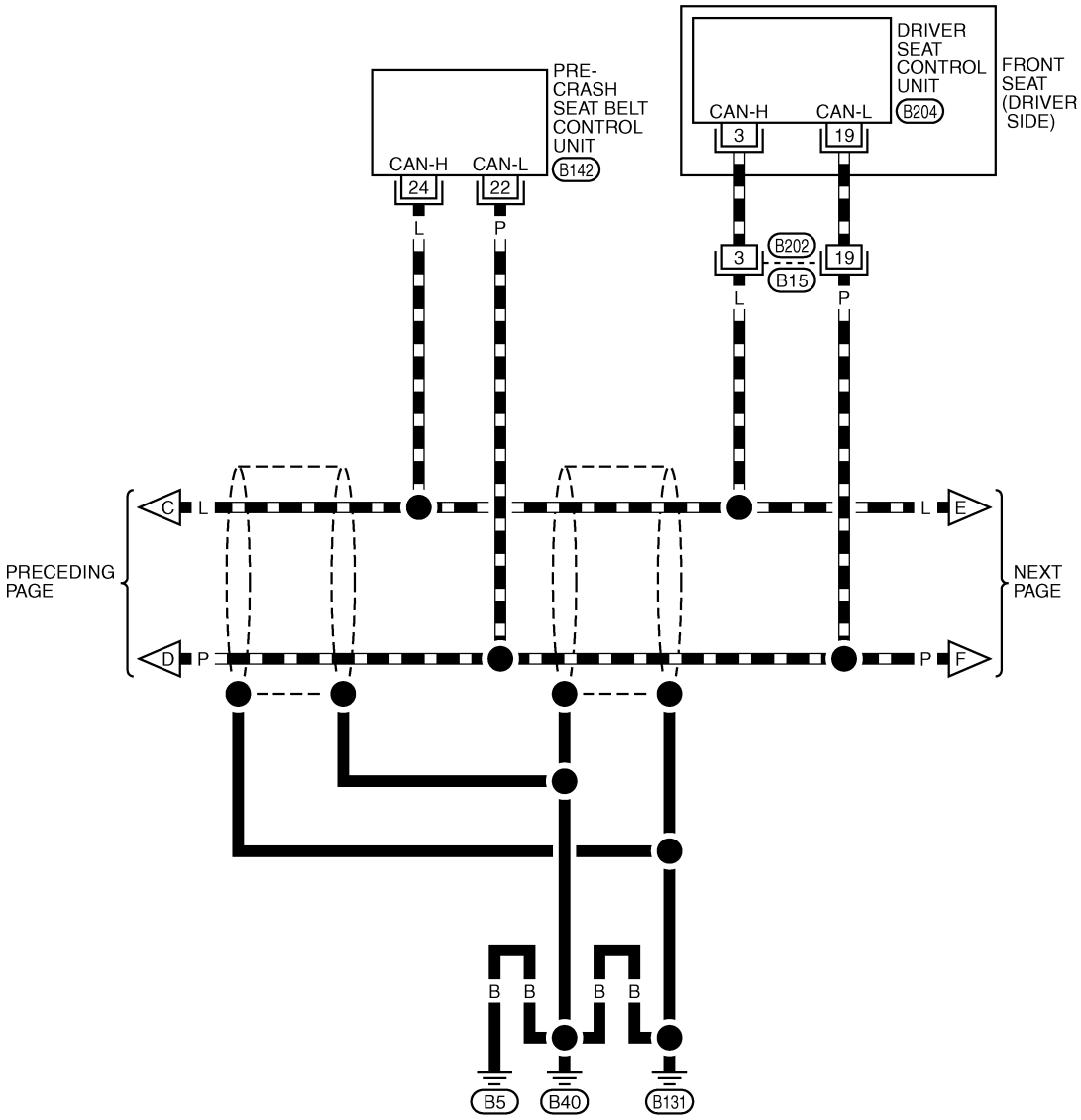
B2 -SUPER MULTIPLE JUNCTION (SMJ)

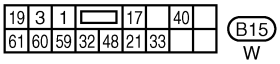
M32 -ELECTRICAL UNITS

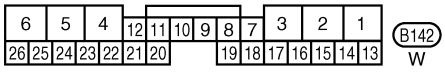
TKWT3305E

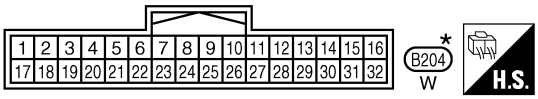
LAN-CAN-47

: DATA LINE







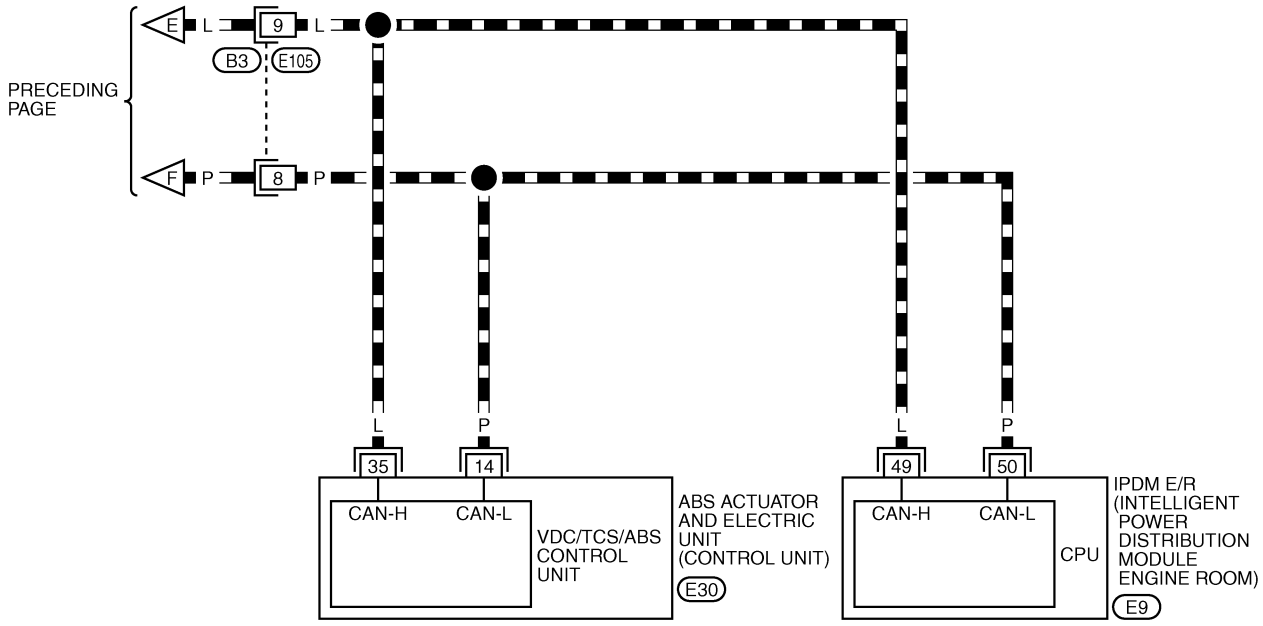


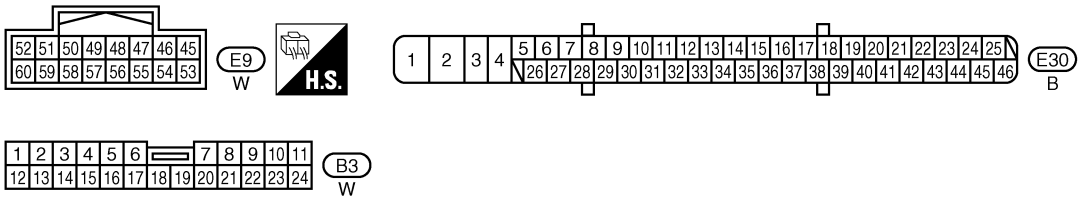
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3306E

LAN-CAN-48

: DATA LINE





TKWT3307E

Check Sheet

NKS00462

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	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 :

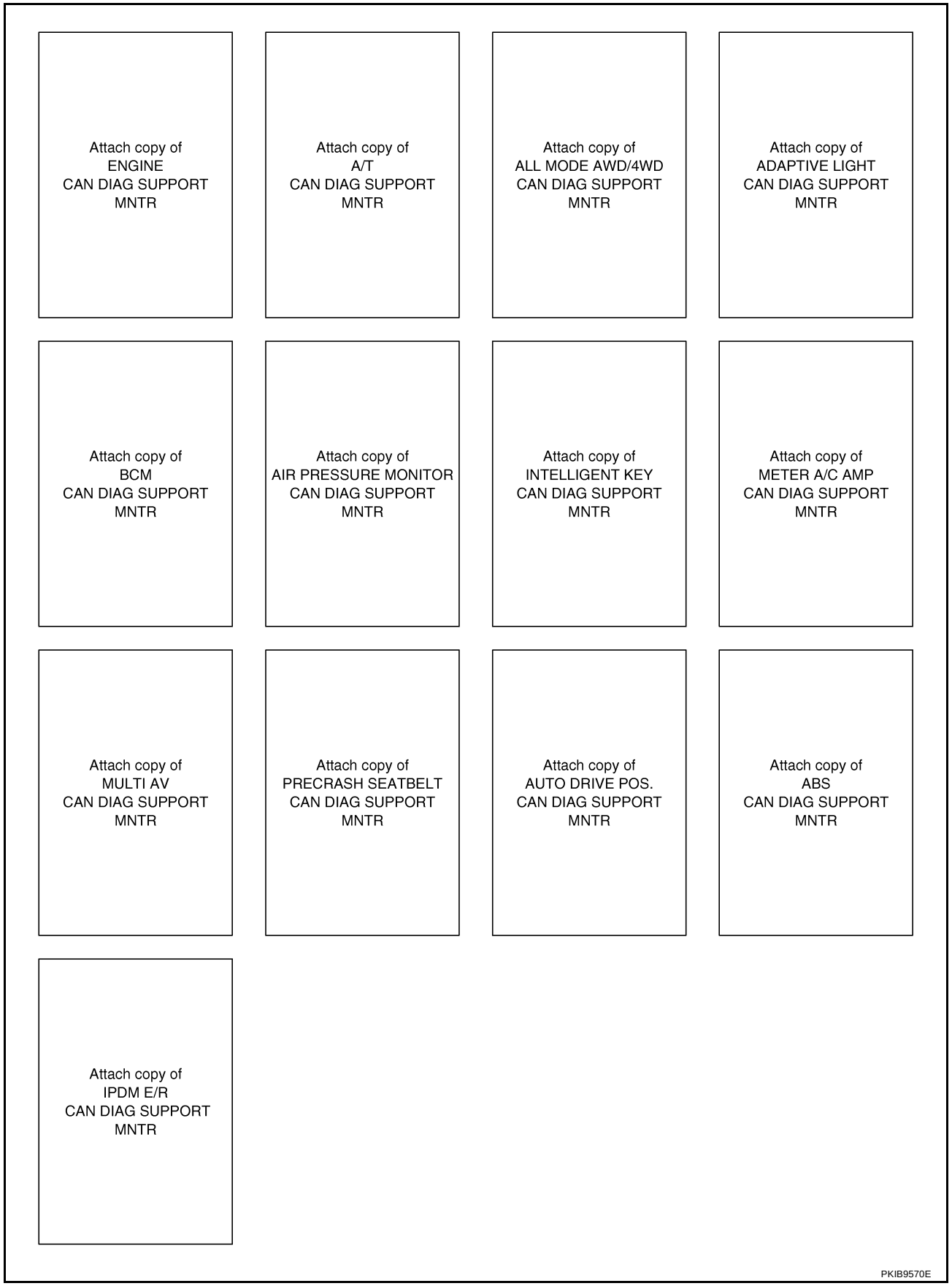
Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIB8539E

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


Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
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MNTR
Attach copy of
ALL MODE AWD/4WD
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MNTR
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ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB9570E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

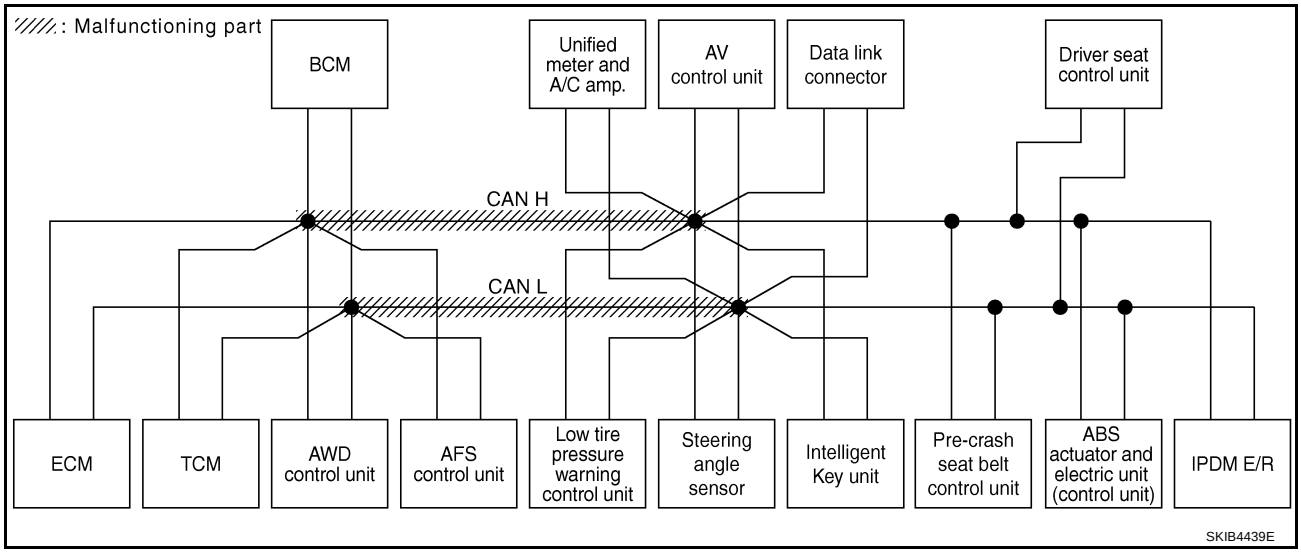
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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													
				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

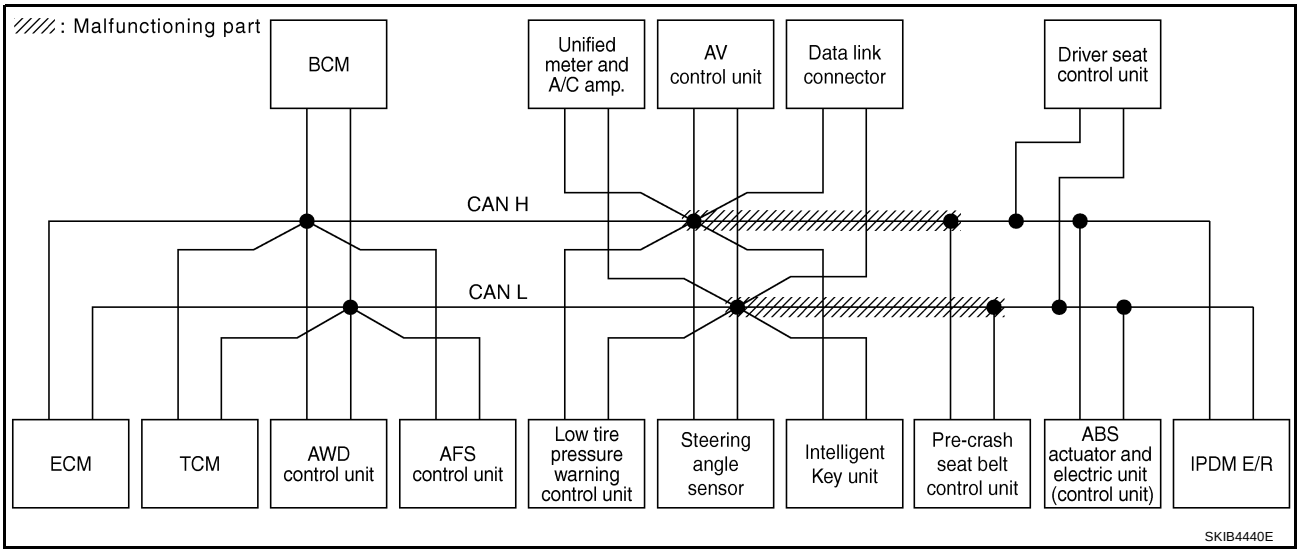


Case 2

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													
				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)	—

PKIB8541E



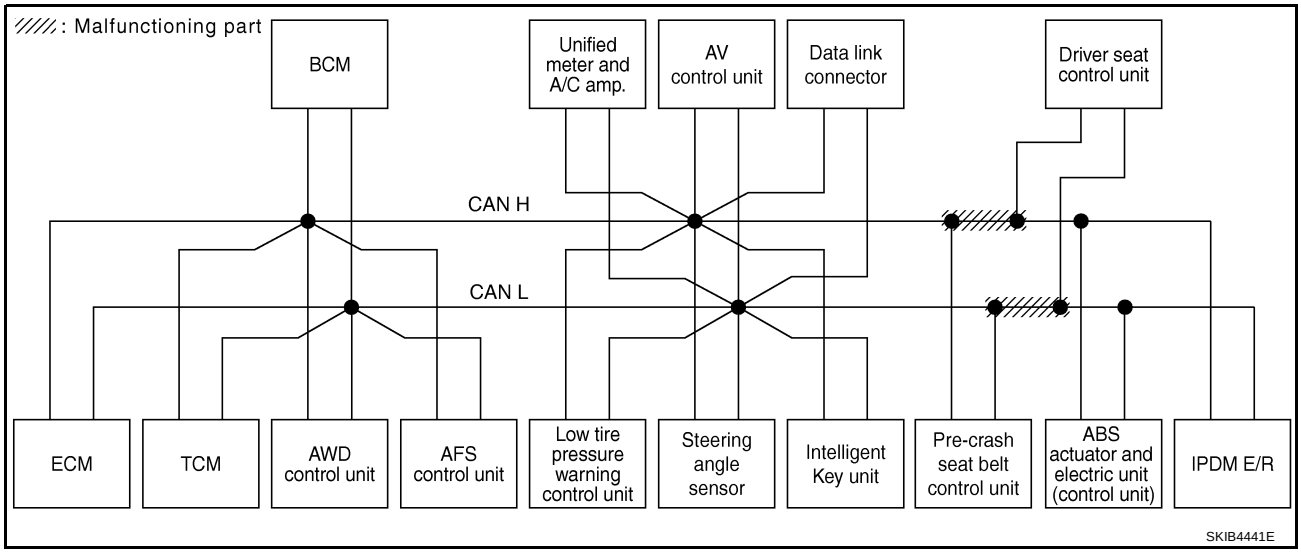
SKIB4440E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8542E



SKIB4441E

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													
				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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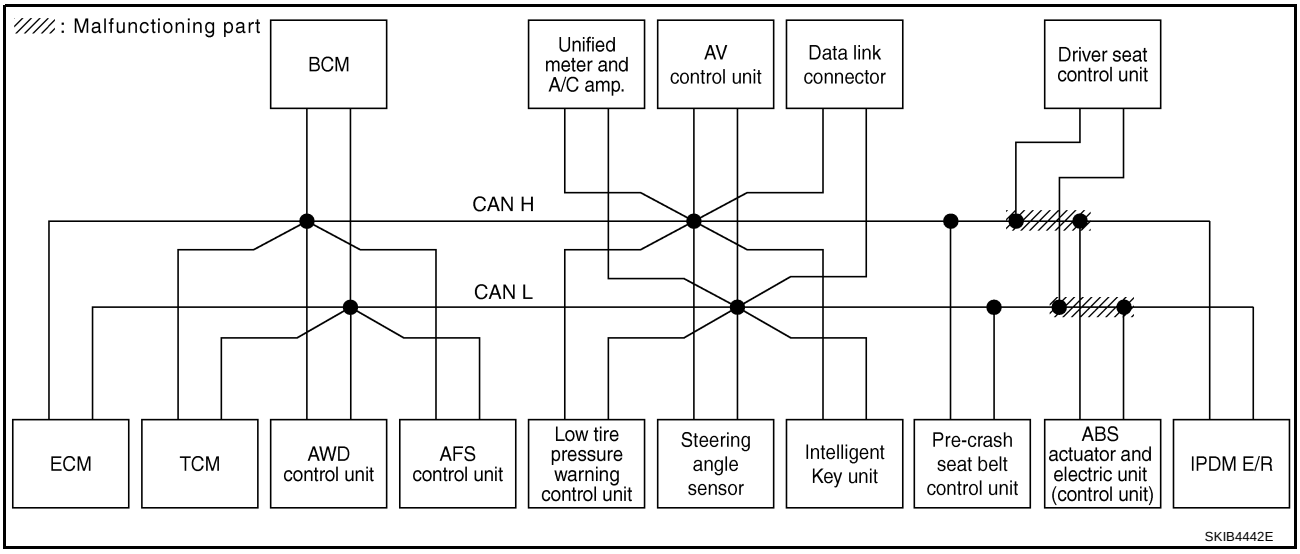

SKIB4442E

Case 5

Check ECM circuit. Refer to LAN-639, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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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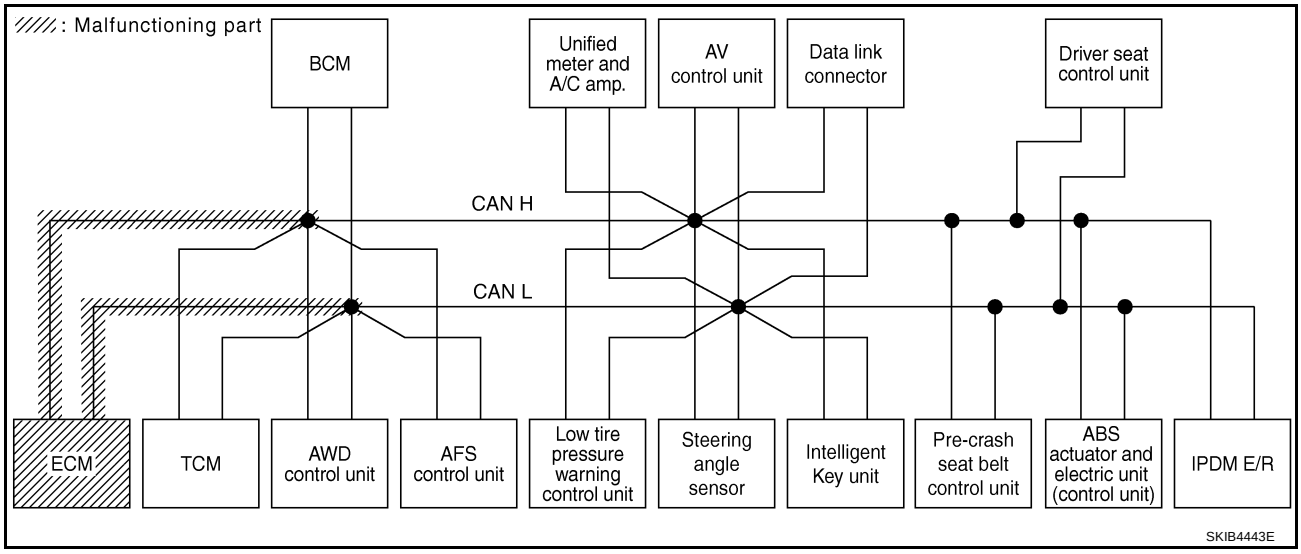

SKIB4443E

Case 6

Check TCM circuit. Refer to LAN-640, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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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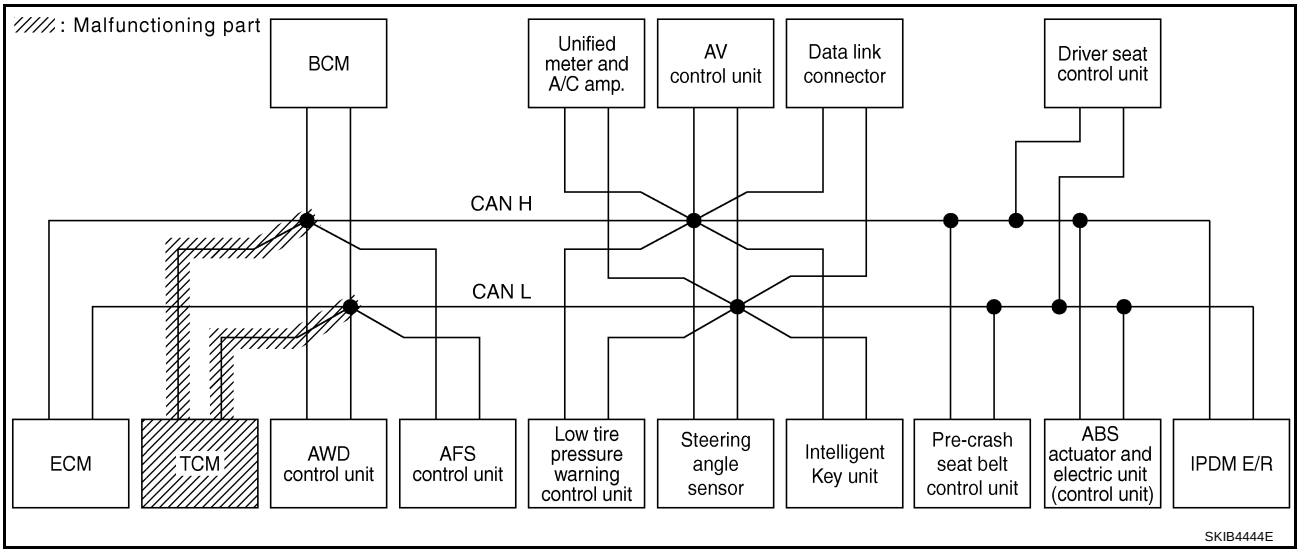

Case 7

Check AWD control unit circuit. Refer to LAN-640, "AWD Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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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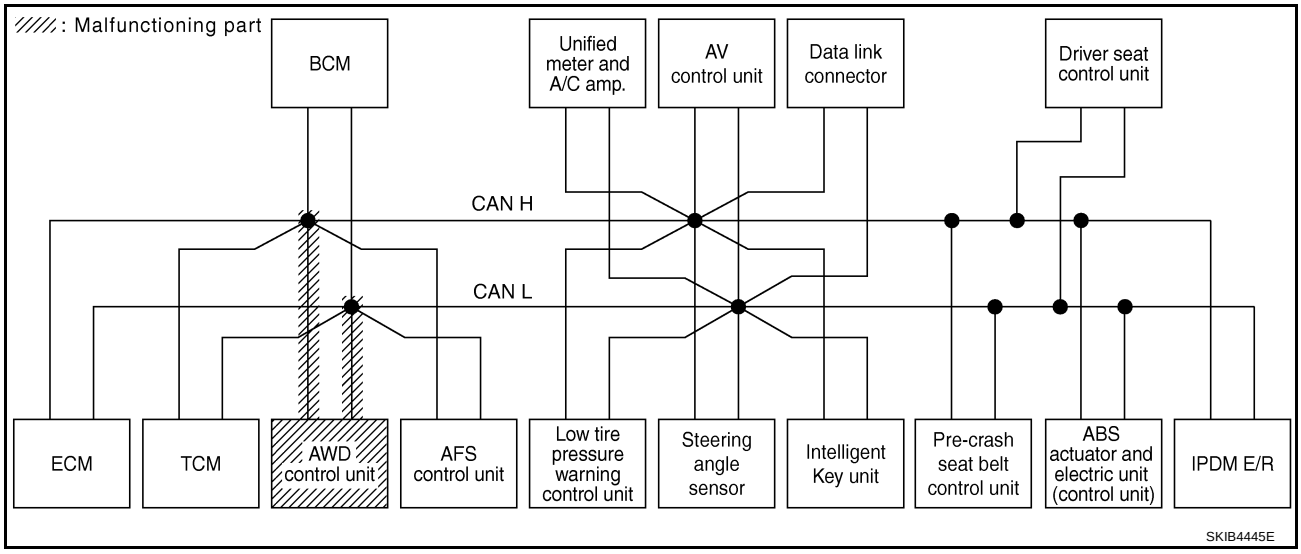

Case 8

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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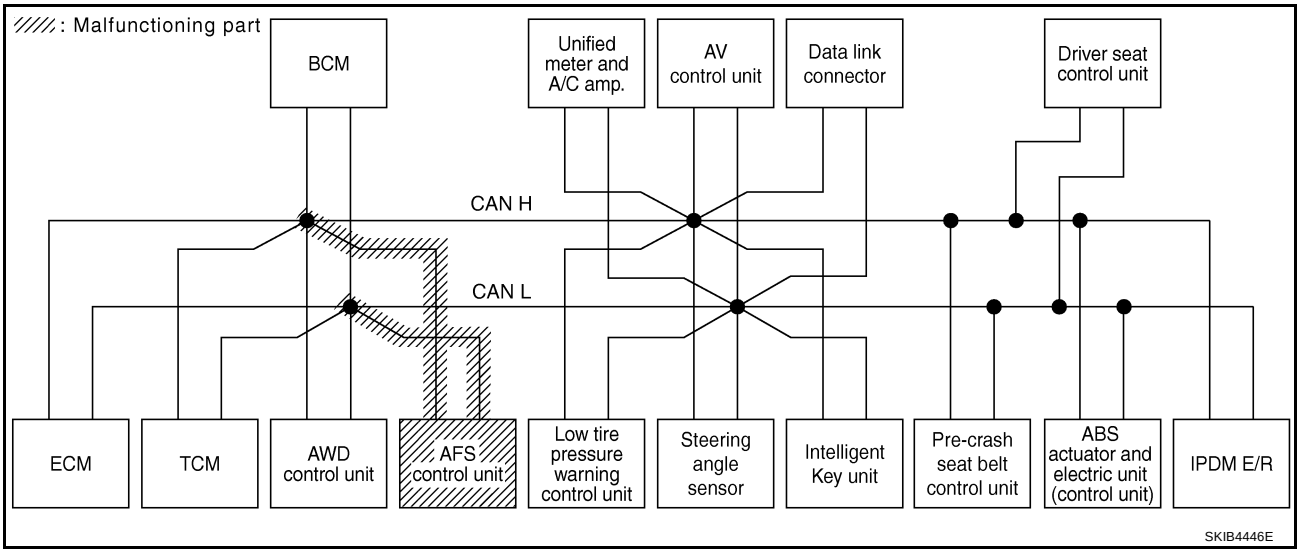

SKIB4446E

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	—	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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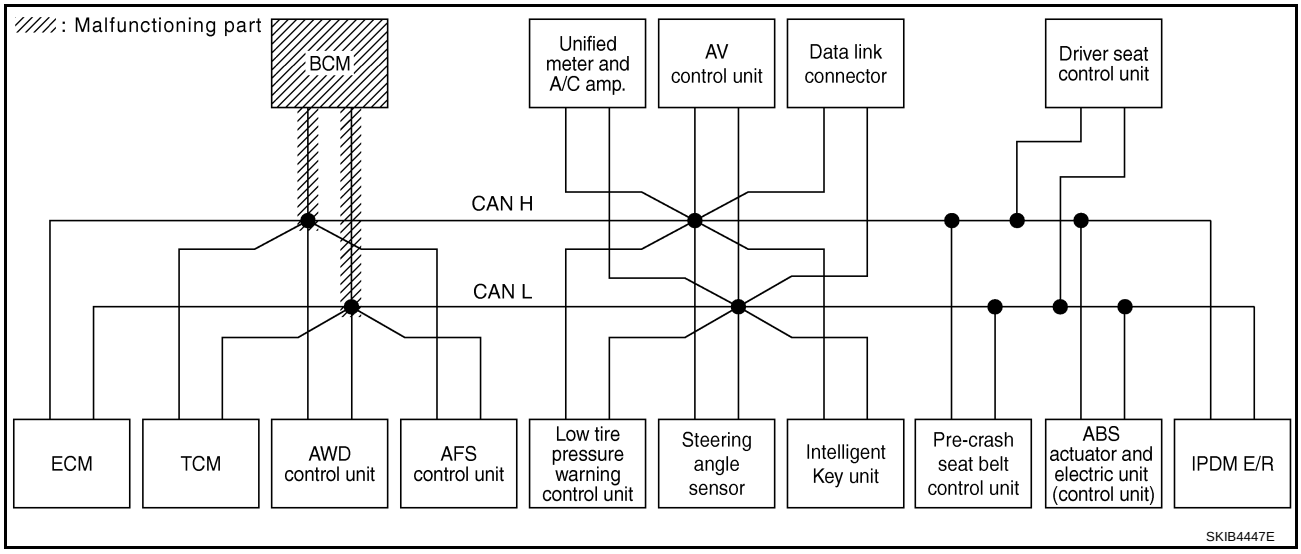

SKIB4447E

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: 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	SELF-DIAG RESULTS	
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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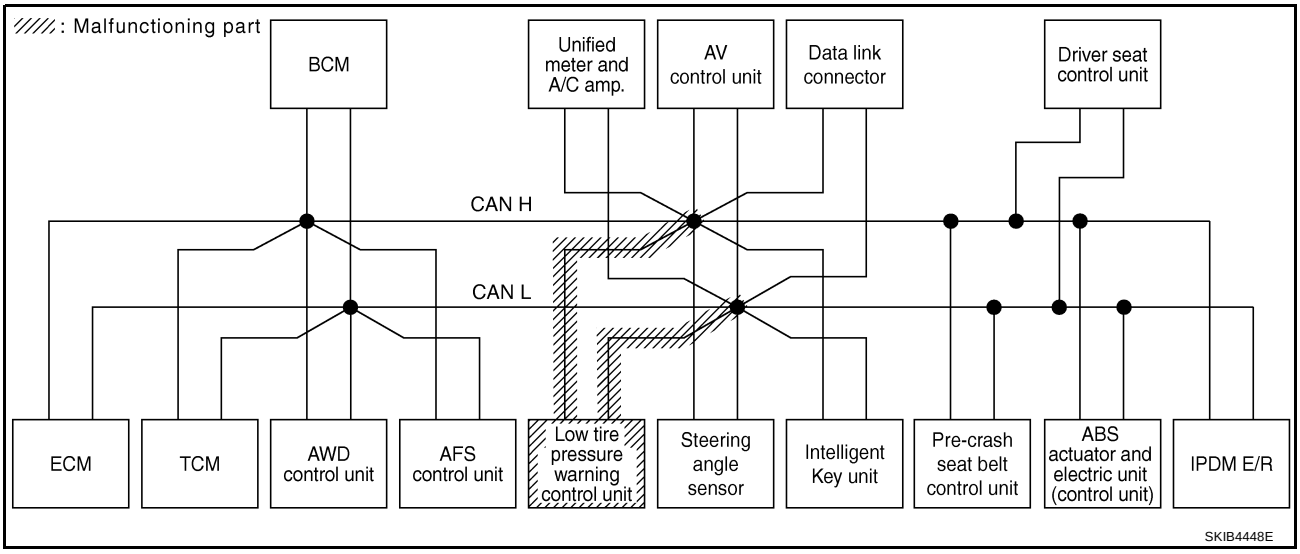

SKIB4448E

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)	—

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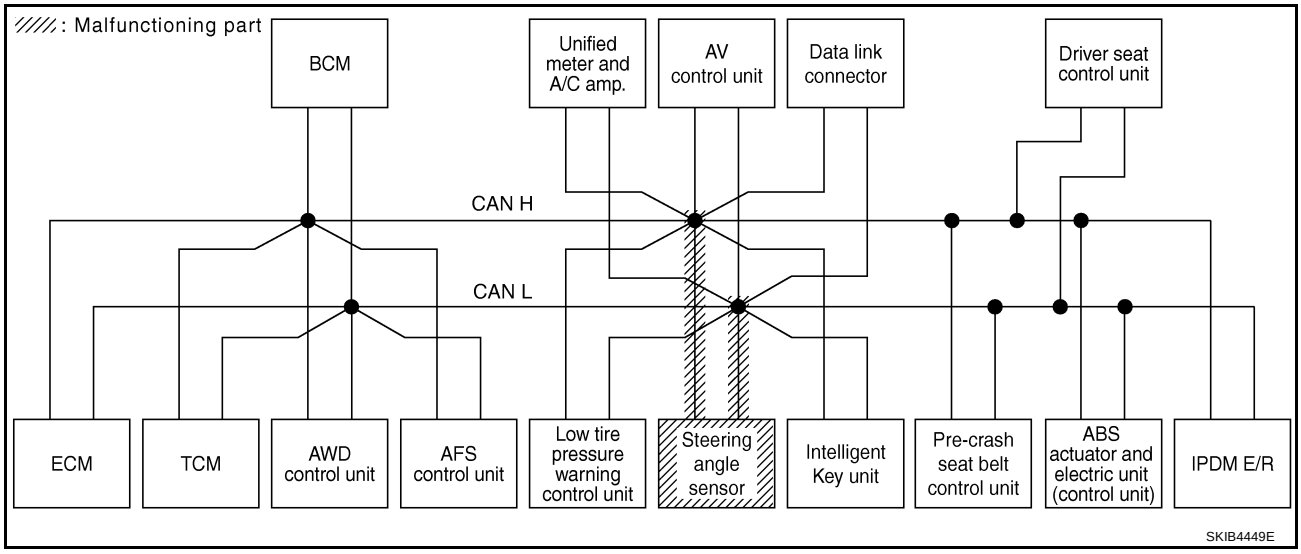
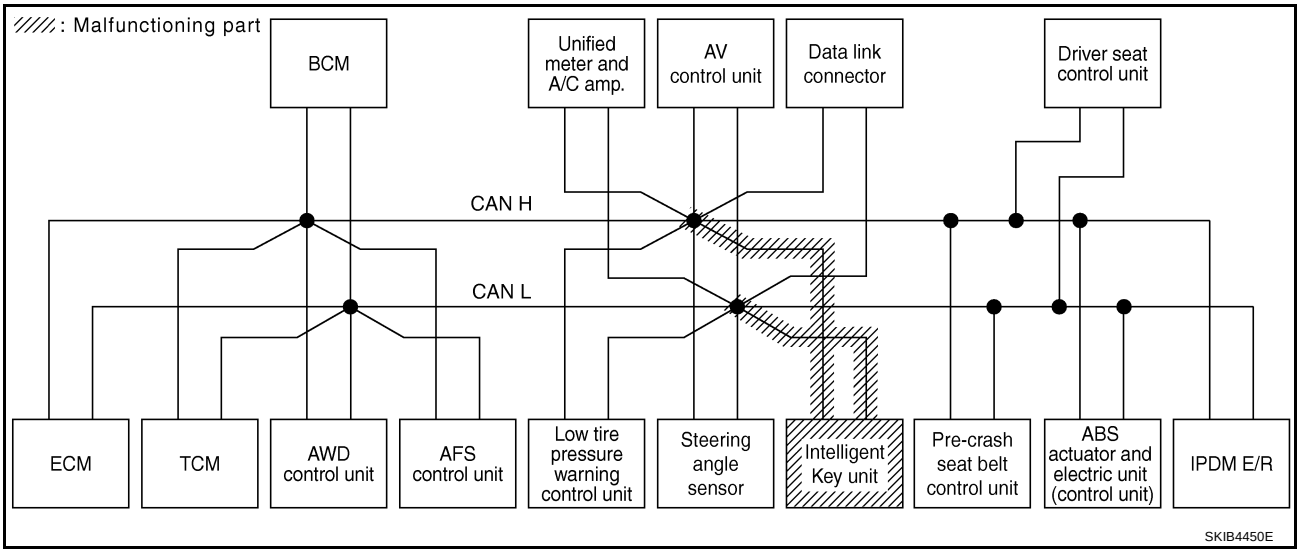


Case 12

Check Intelligent Key unit circuit. Refer to LAN-643, "Intelligent Key Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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



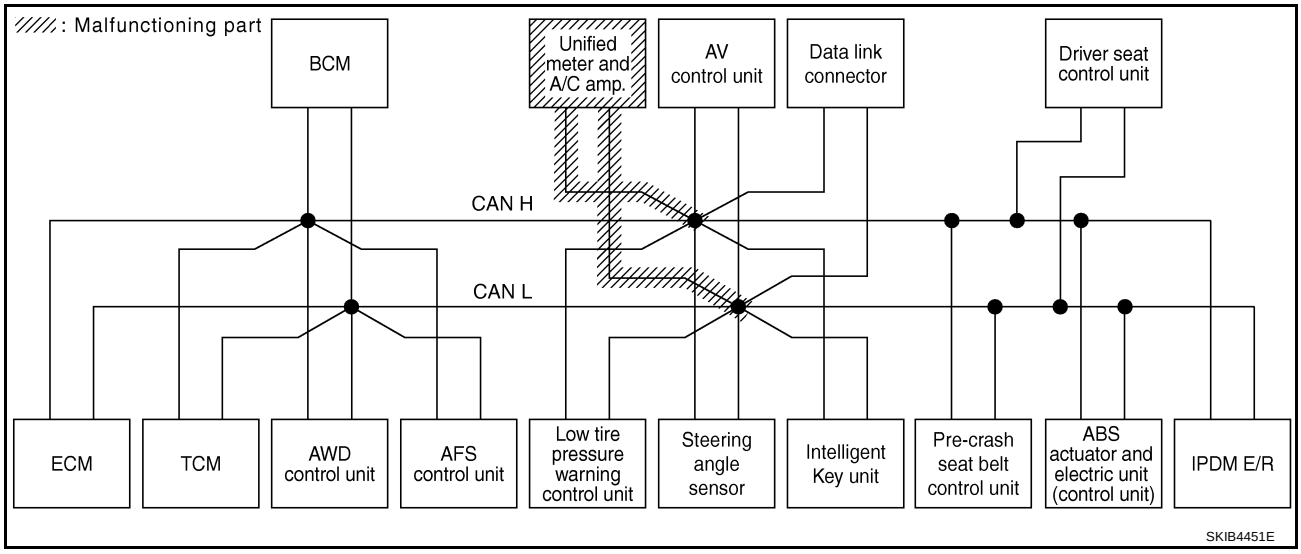
SKIB4450E

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	—	—	—	✓ 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)	—

PKIB8552E



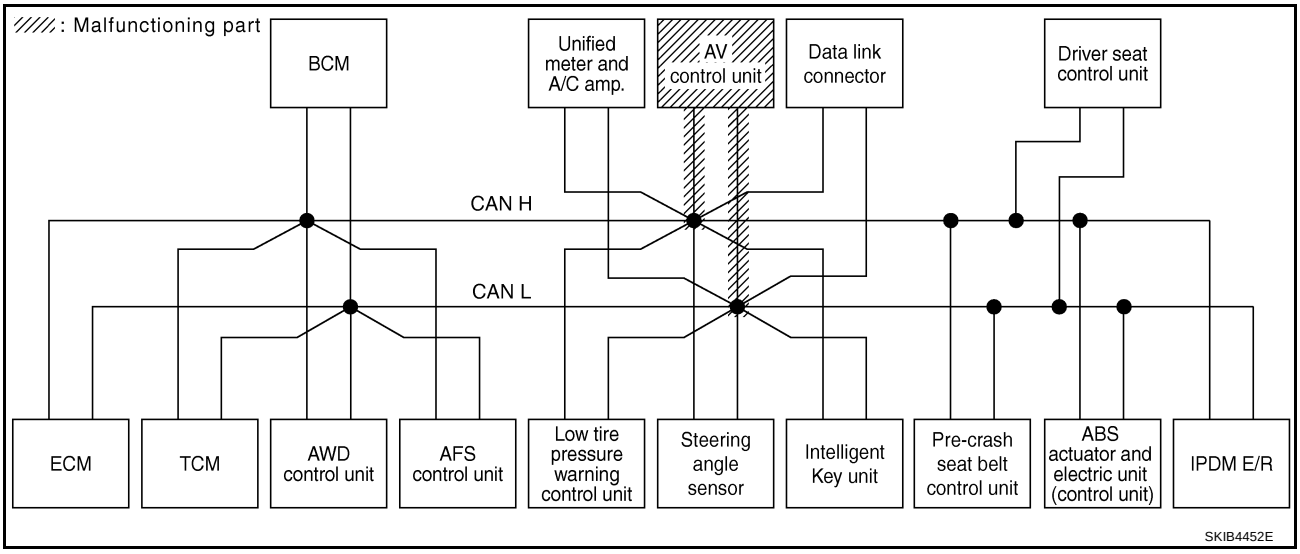
SKIB4451E

Case 14

Check AV control unit circuit. Refer to LAN-644, "AV Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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



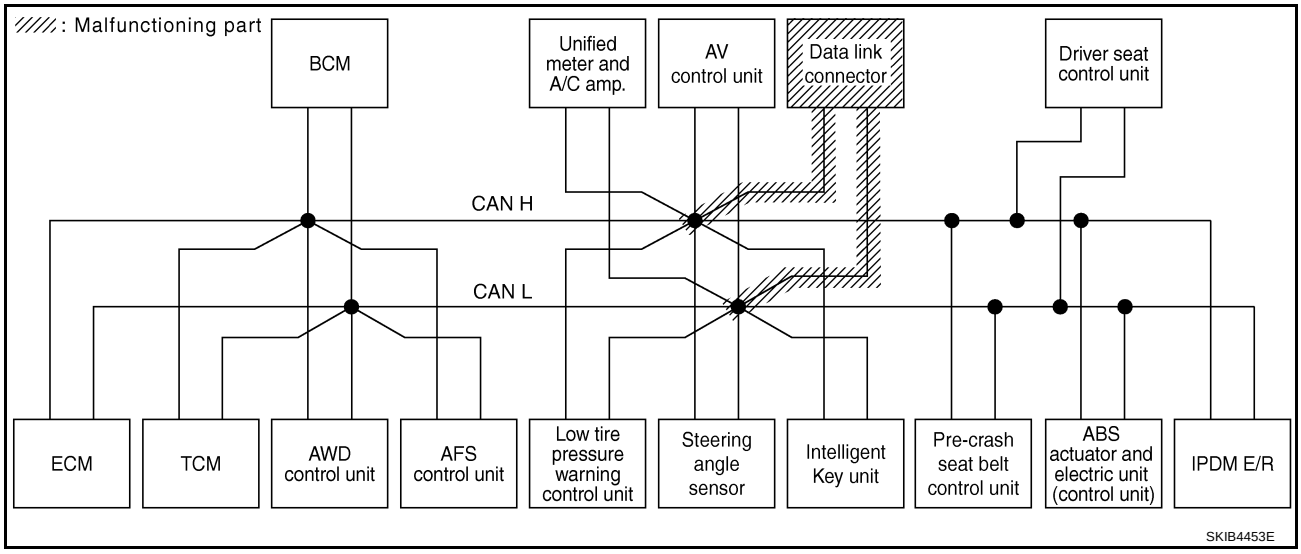
SKIB4452E

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



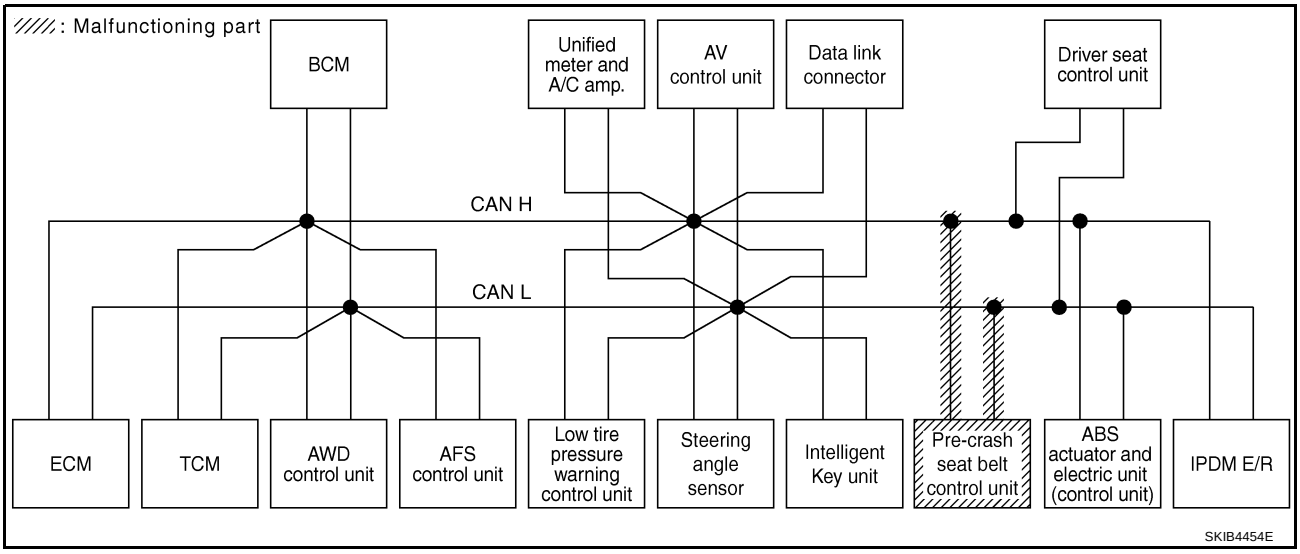
SKIB4453E

Case 16

Check pre-crash seat belt control unit circuit. Refer to LAN-645, "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



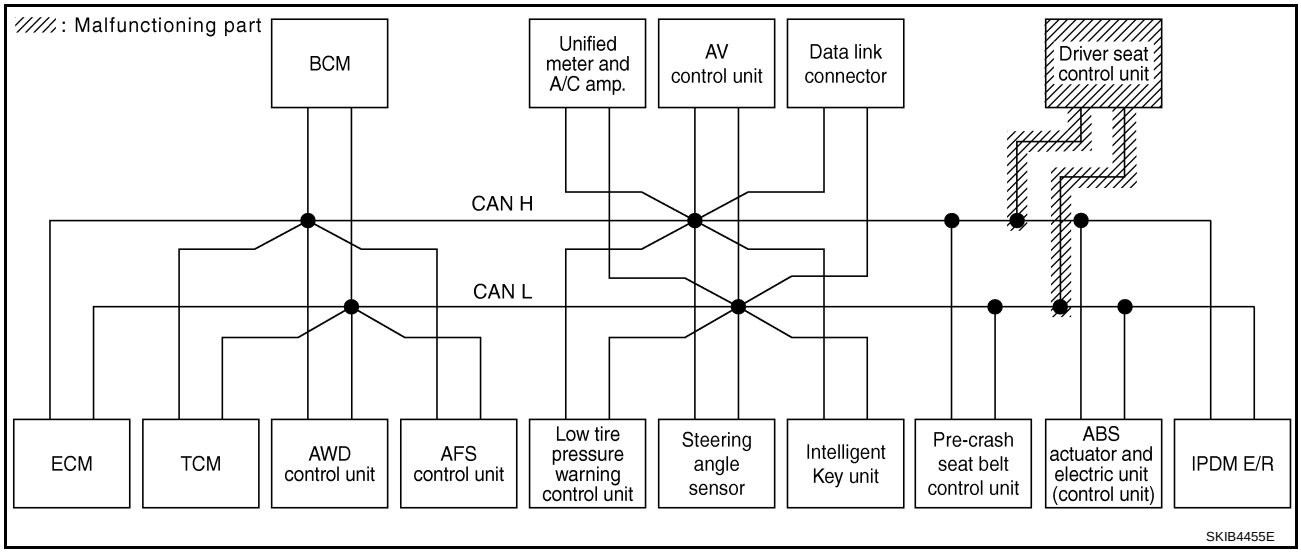
SKIB4454E

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



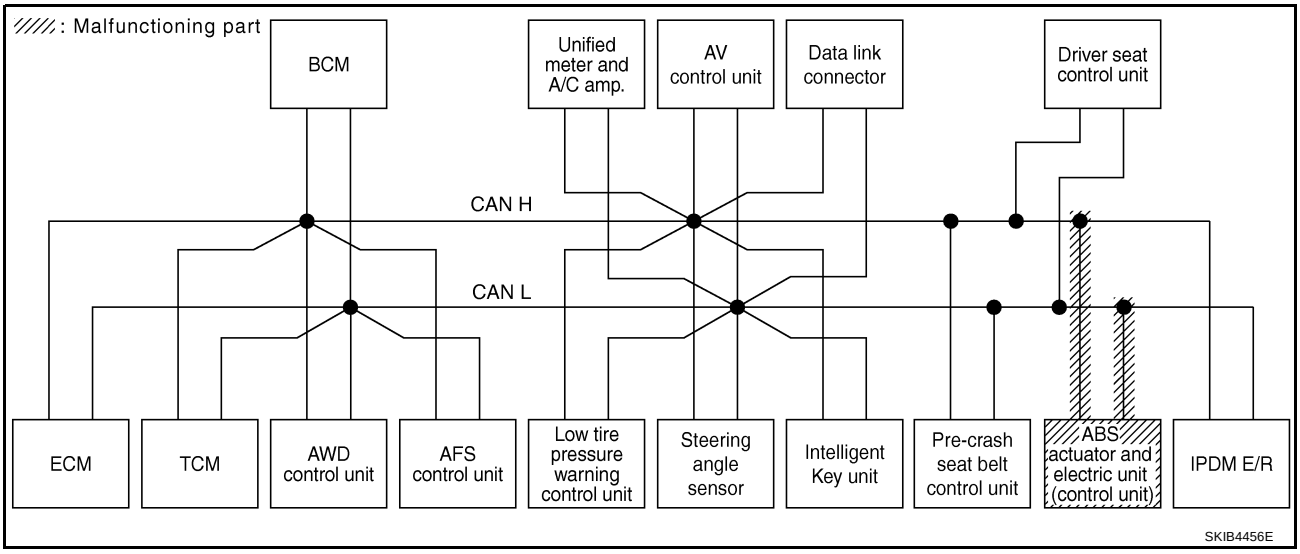
SKIB4455E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8557E



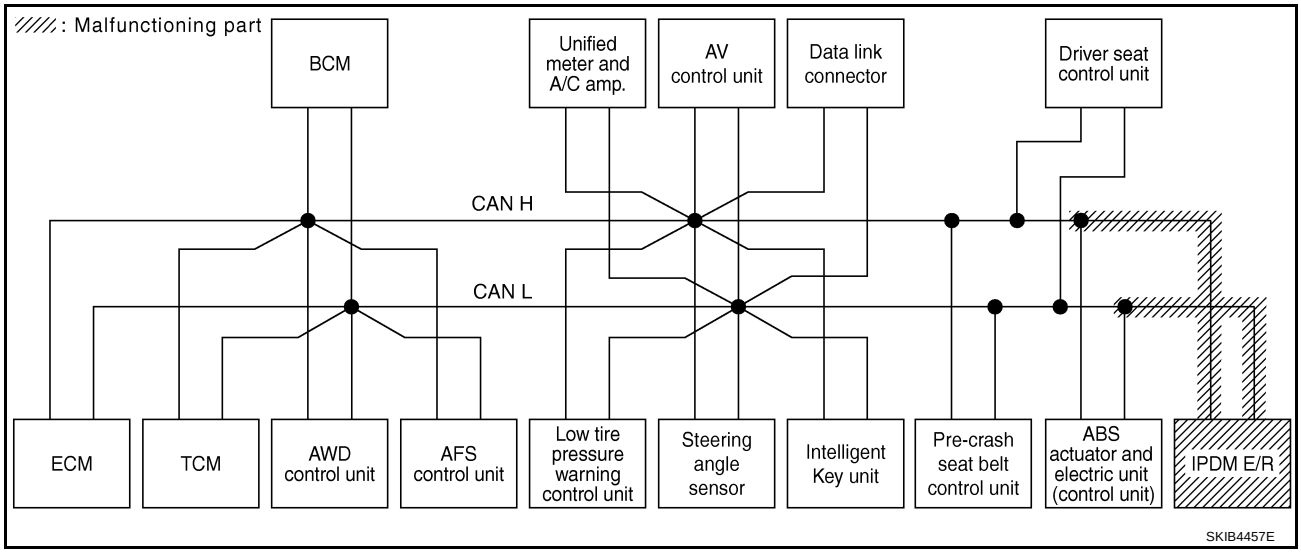
SKIB4456E

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



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													
				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)	—

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													
				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)	—

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: 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	SELF-DIAG RESULTS	
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

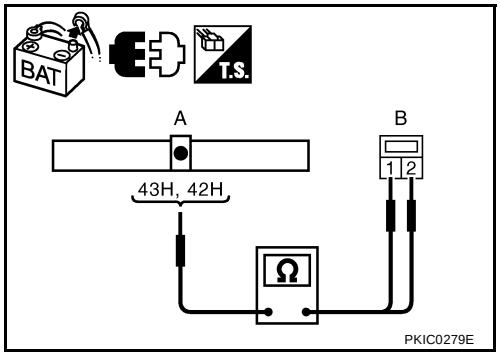
OK or NG

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



PKIC0279E

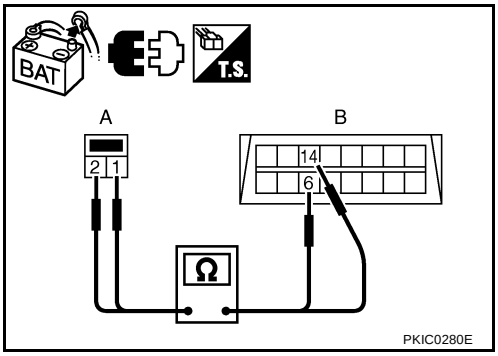
OK or NG

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

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

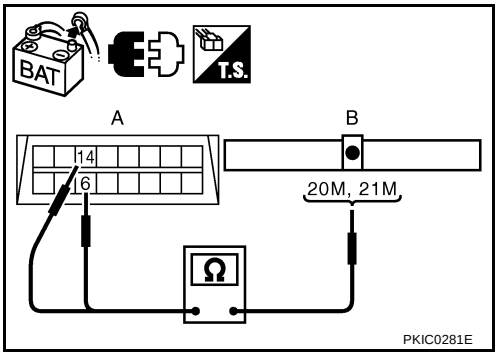
OK >> GO TO 2.

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

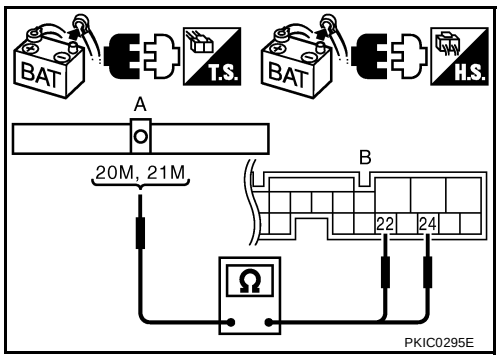
OK >> GO TO 3.

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.

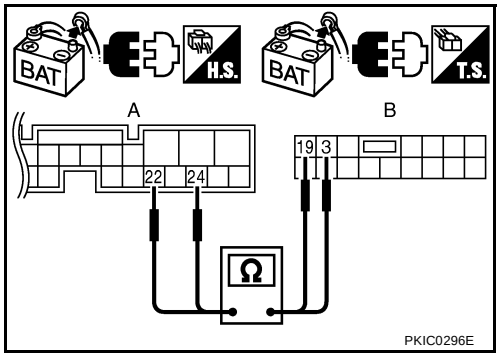
Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

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

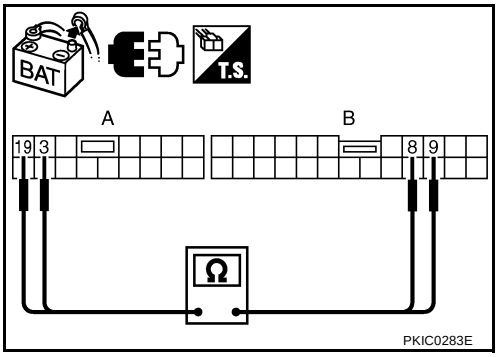
OK >> GO TO 2.

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



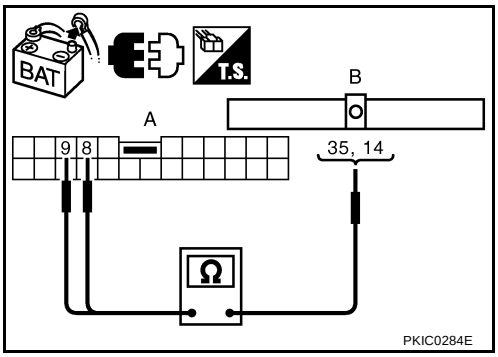
OK or NG

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

NKS00467

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).

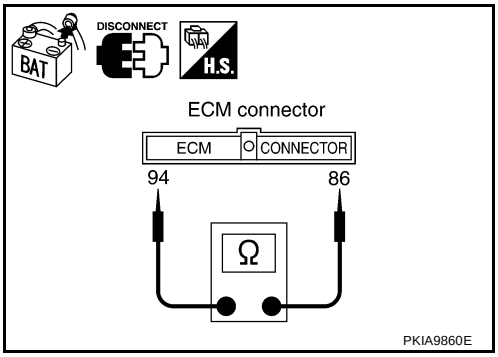
OK or NG

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

NKS00468

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

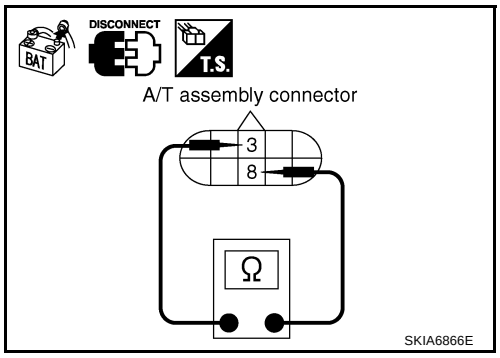
OK or NG

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

NKS00469

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).

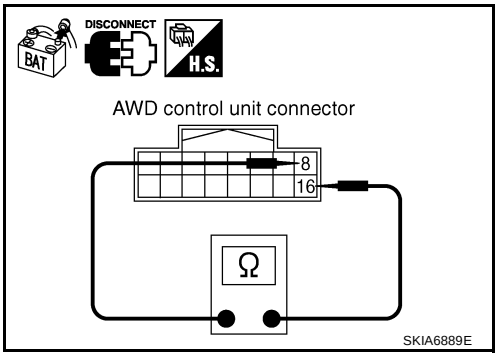
- AWD control unit connector
- Harness connector F102
- Harness connector M72

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

NKS0046A

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).

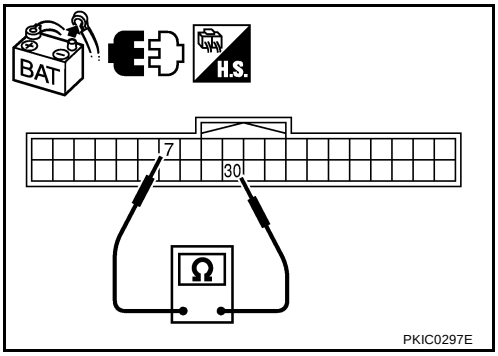
- AFS control unit connector
- Harness connector F102
- Harness connector M72

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

NKS0046B

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).

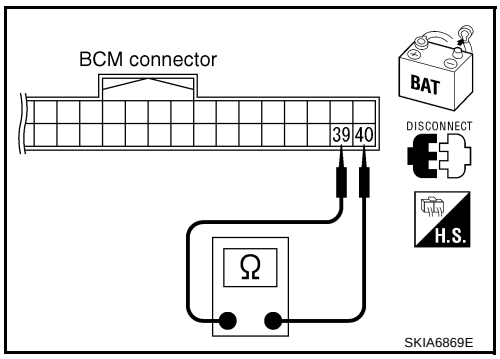
OK or NG

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).

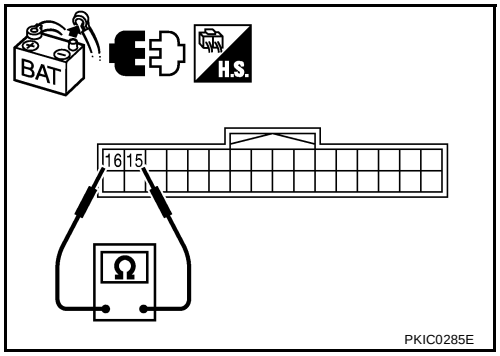
OK or NG

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).

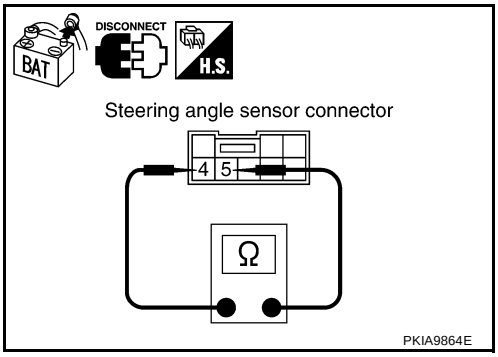
OK or NG

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.

Intelligent Key Unit Circuit Inspection

NKS0046E

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).

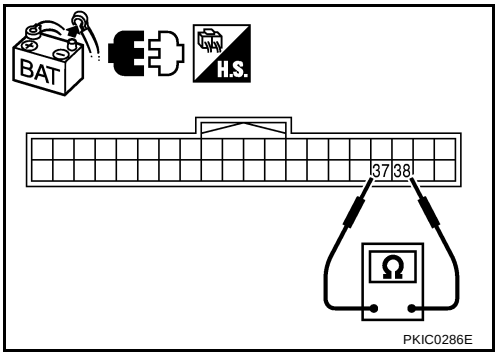
OK or NG

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

NKS0046F

1. CHECK CONNECTOR

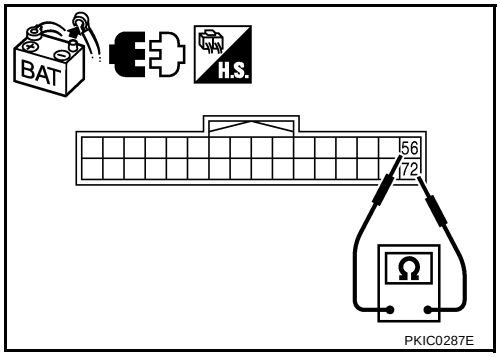
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS0046G

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).

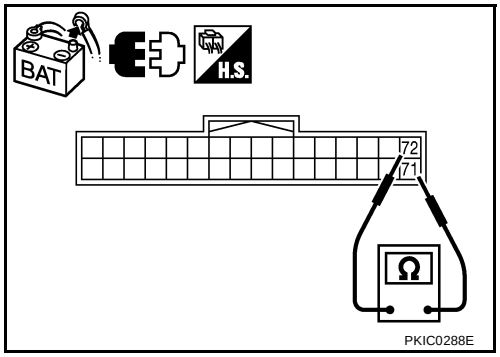
- AV control unit connector
- Harness connector M216
- Harness connector M53

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

NKS0046H

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).

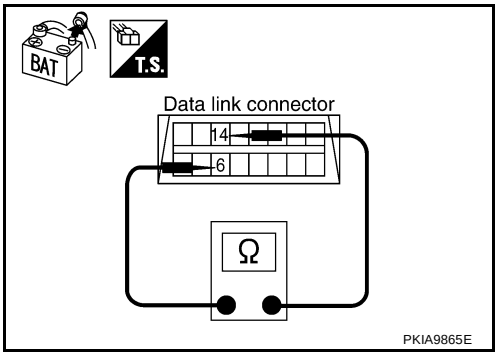
OK or NG

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

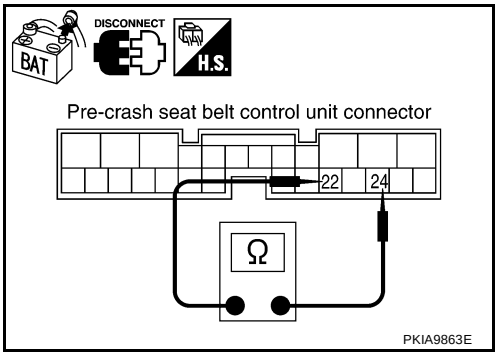
OK >> GO TO 2.

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.

Driver Seat Control Unit Circuit Inspection

NKS0046J

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

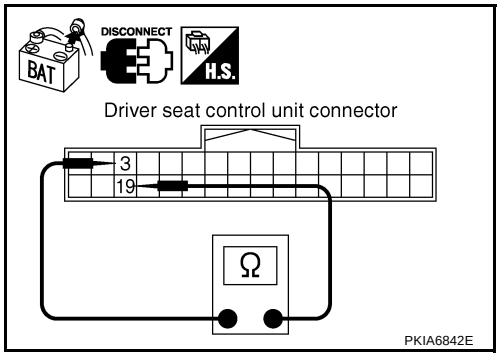
OK >> GO TO 2.

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).

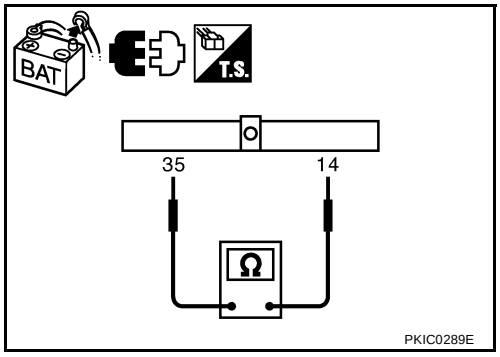
OK or NG

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

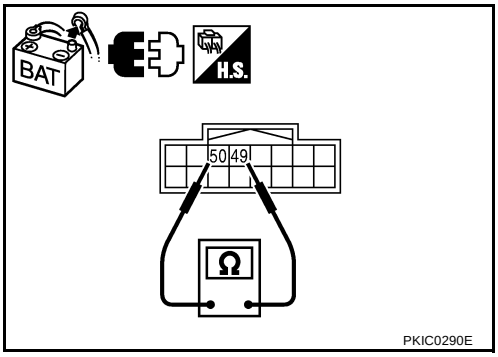
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of IPDM E/R for damage, bend and loose connection (control module side and harness side).

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.

CAN Communication Circuit Inspection

NKS0046M

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

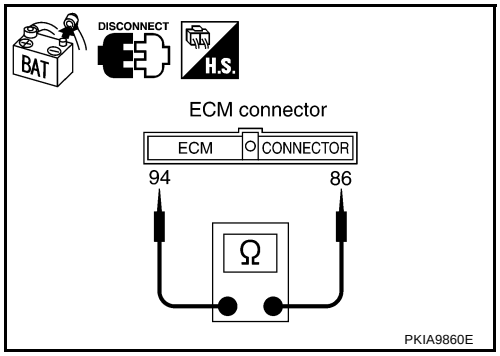
OK >> GO TO 2.
NG >> Repair terminal or connector.

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

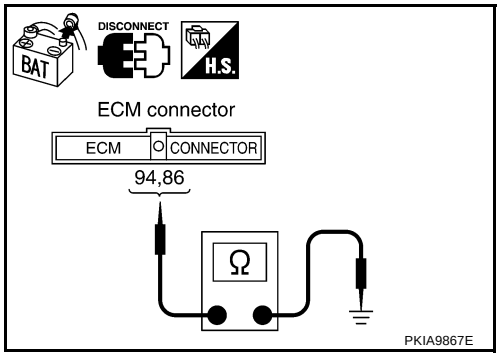
OK >> GO TO 3.

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		Continuity
M71	94	Ground	No
	86		No



OK or NG

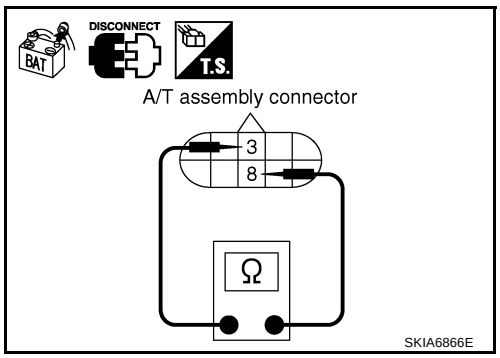
OK >> GO TO 4.

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 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

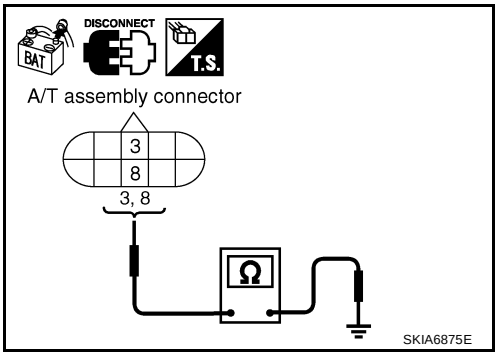
OK >> GO TO 5.

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



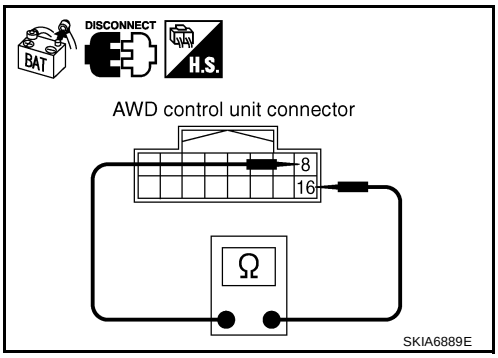
OK or NG

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



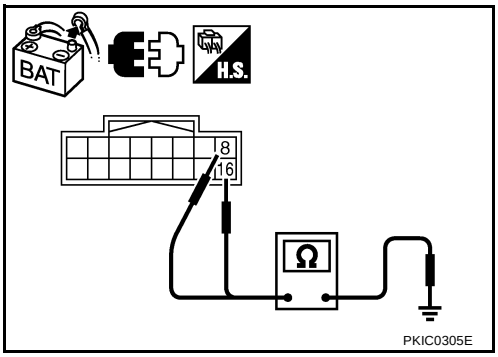
OK or NG

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



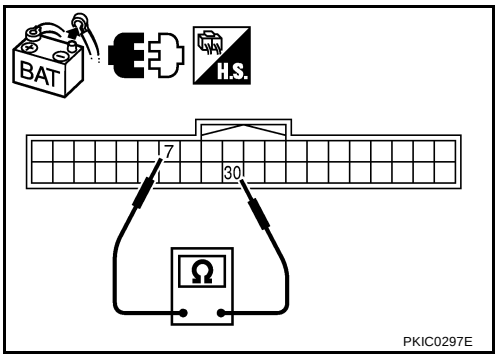
OK or NG

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



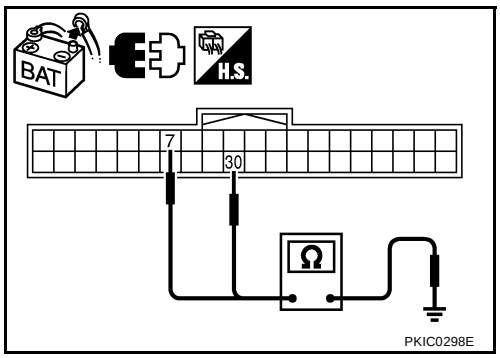
OK or NG

OK >> GO TO 9.
NG >> Repair harness between AFS control unit and harness connector F102.

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



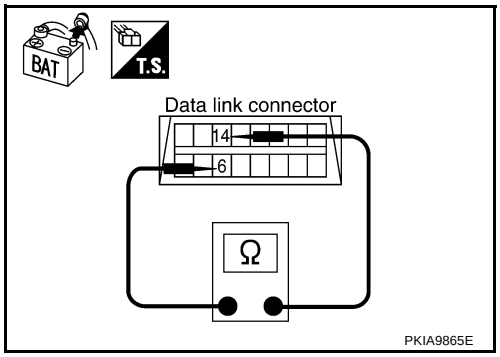
OK or NG

OK >> GO TO 10.
NG >> Replace harness between AFS control unit and harness connector F102.

10. CHECK HARNESS FOR SHORT CIRCUIT

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



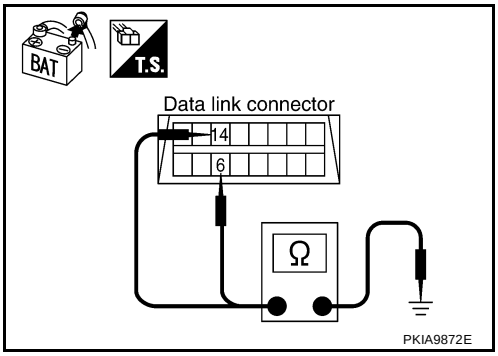
OK or NG

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		No
	14		No



OK or NG

OK >> GO TO 12.

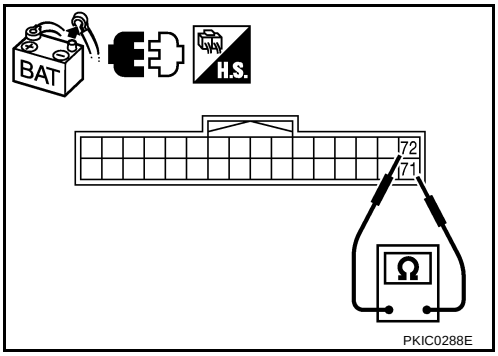
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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

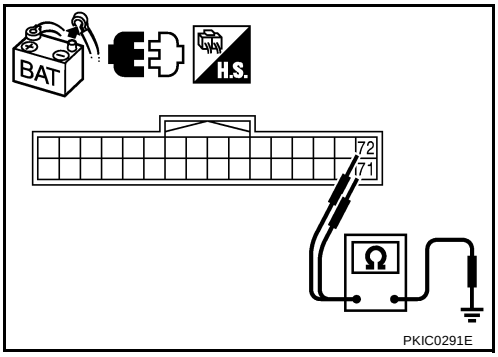
OK >> GO TO 13.

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		No
	72		No



OK or NG

OK >> GO TO 14.

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

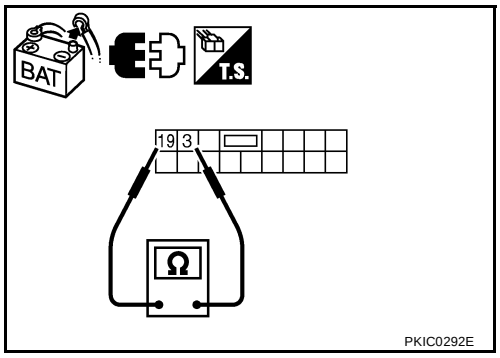
14. CHECK HARNESS FOR SHORT CIRCUIT

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.



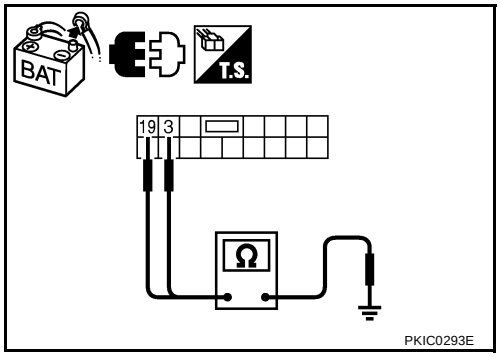
15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No

OK or NG

OK >> GO TO 16.
NG >> Replace harness.



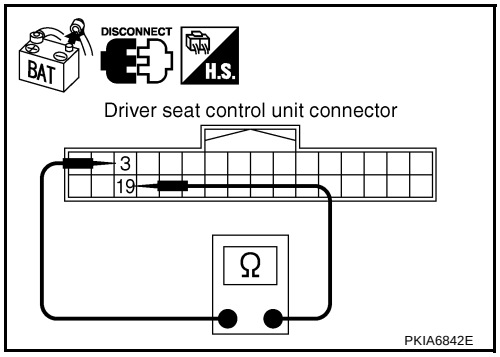
16. CHECK HARNESS FOR SHORT CIRCUIT

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

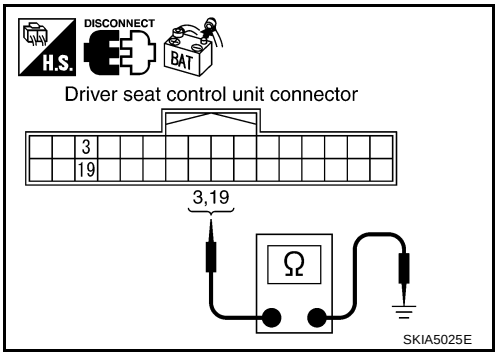
OK >> GO TO 17.
NG >> Repair harness between driver seat control unit and harness connector B202.



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

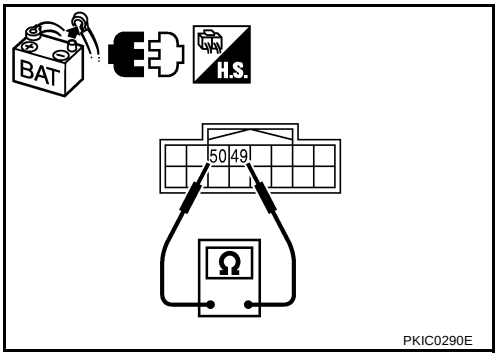
OK >> GO TO 18.

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.

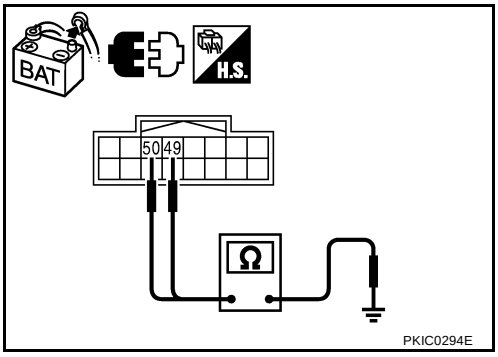
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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)

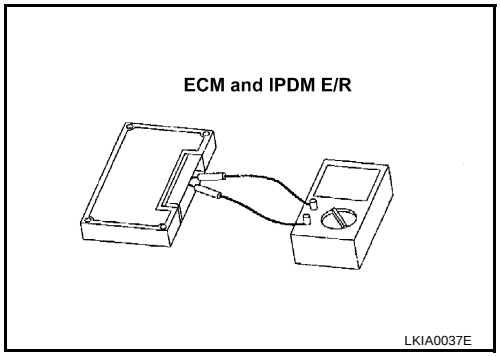
20. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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”" .

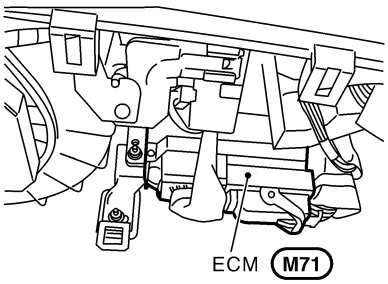
CAN SYSTEM (TYPE 14)

PFP:23710

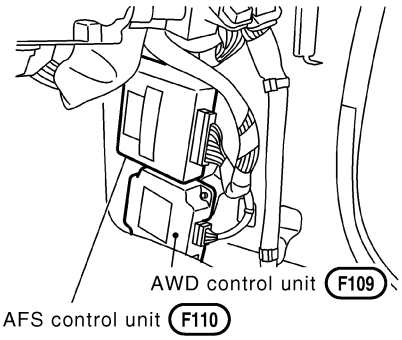
Component Parts and Harness Connector Location

NKS0046O

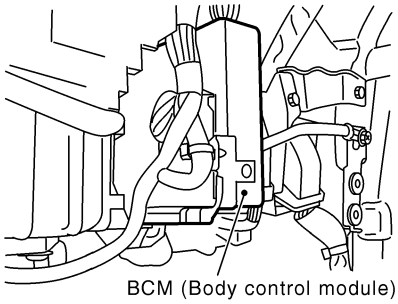
Passenger side view with instrument lower cover removed



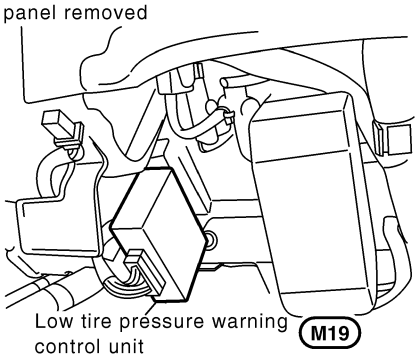
Behind dash side lower RH finisher



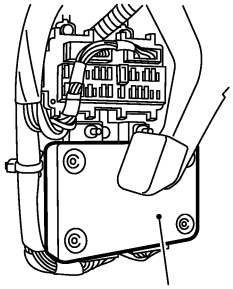
Passenger side view with instrument lower cover removed



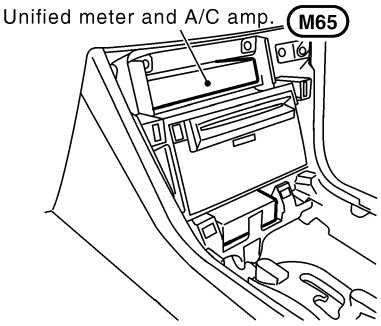
Driver side view with instrument lower panel removed



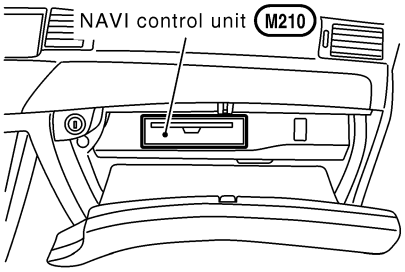
Behind dash side lower LH finisher



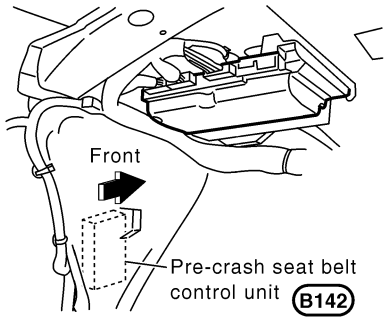
View with cluster lid C removed



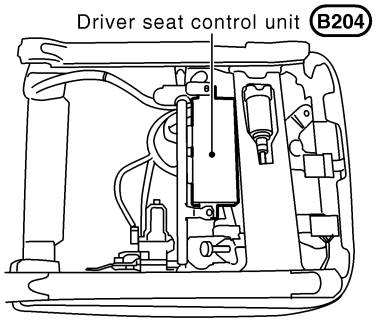
Inside of glove box



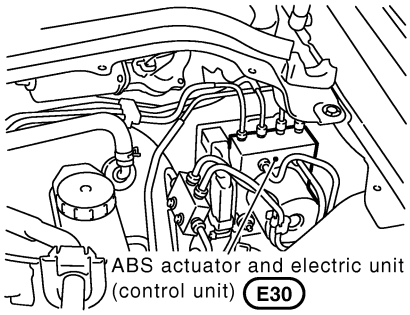
View with trunk side LH finisher and front finisher removed



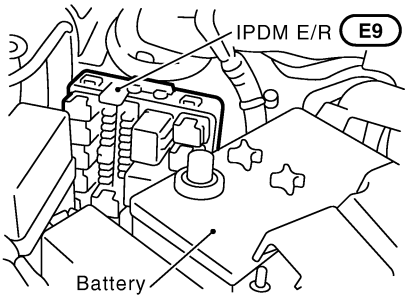
Under driver's seat



Rear left of engine room



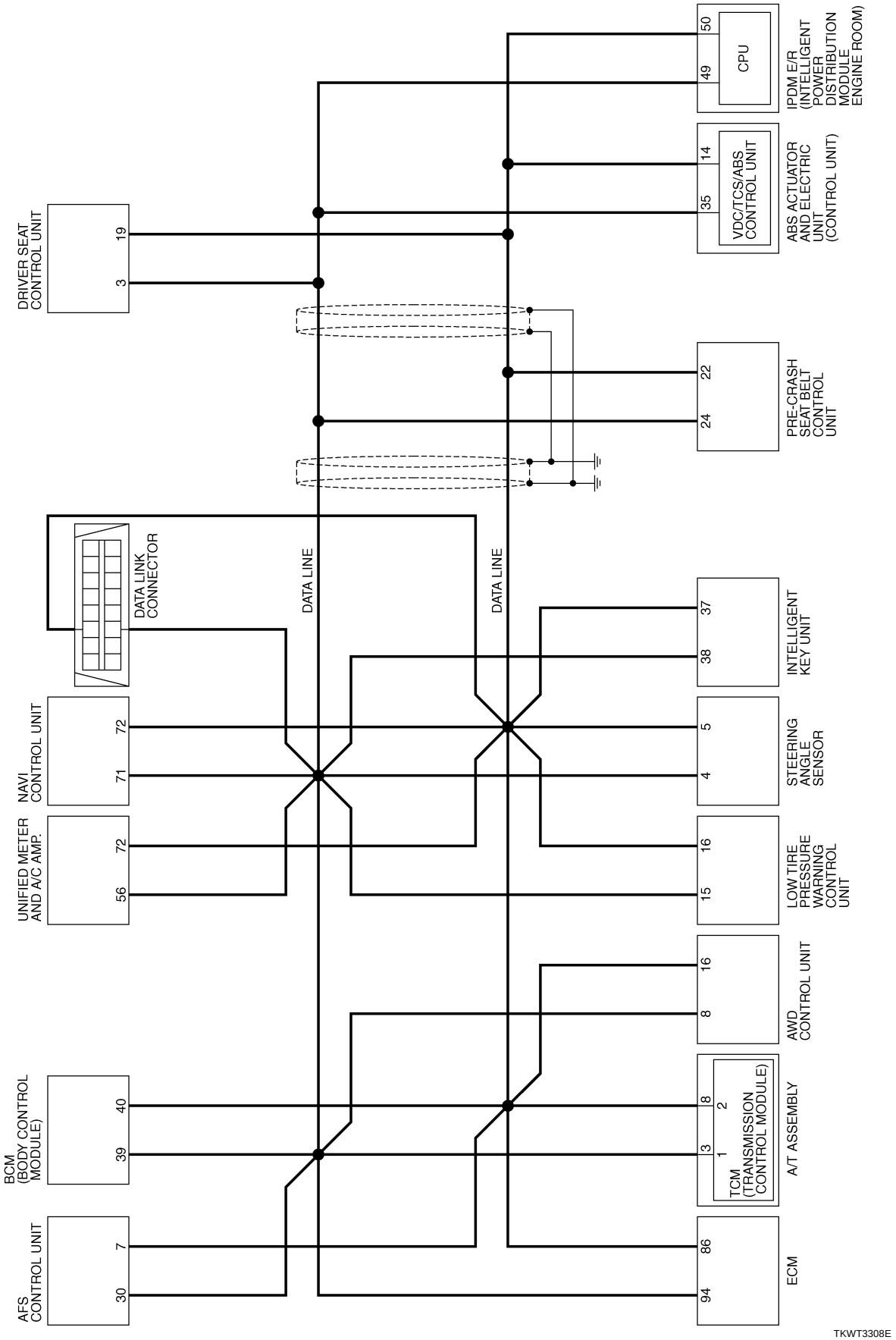
View with cowl top cover removed



PKIC0612E

Schematic

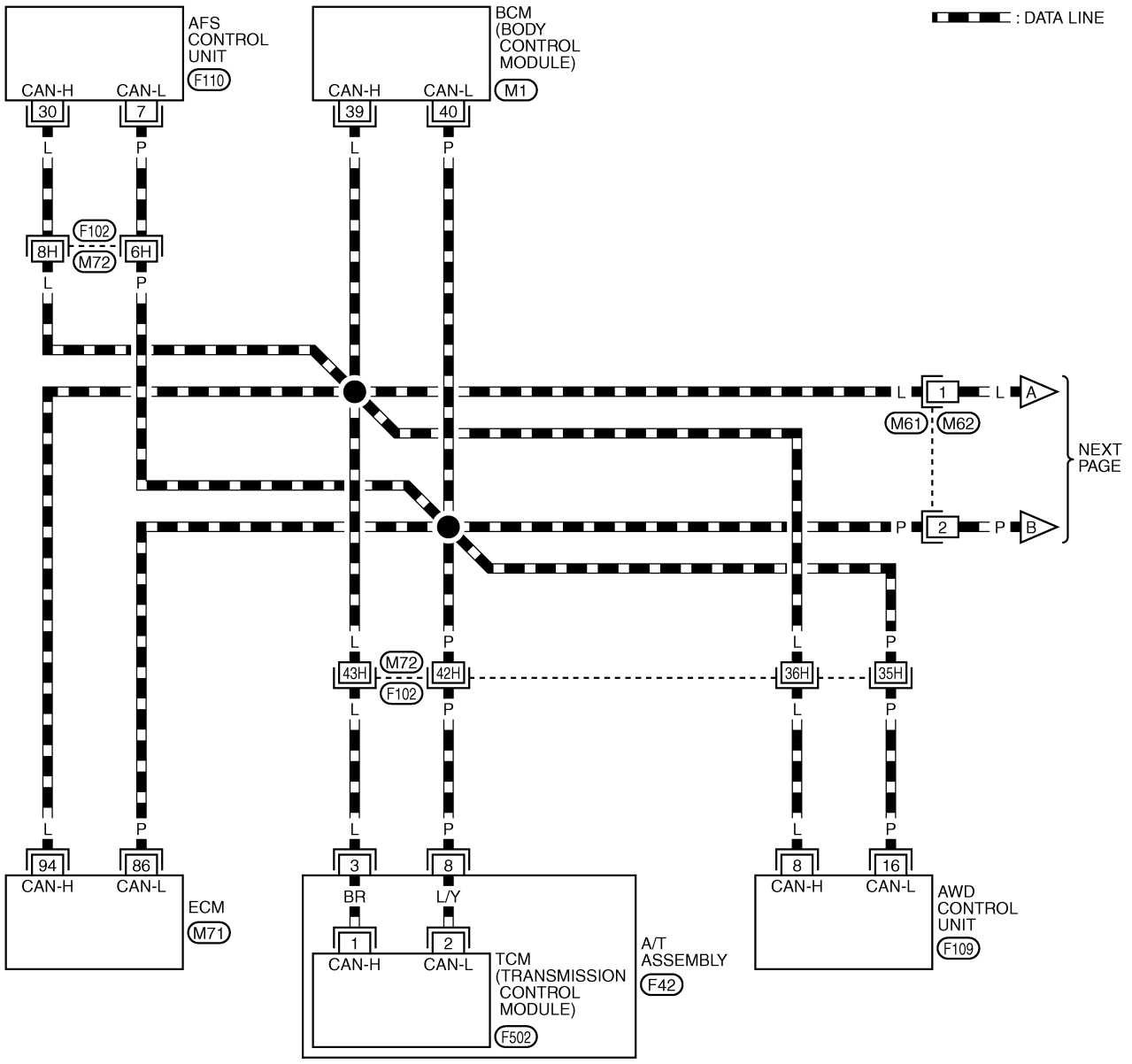
NKS0046P

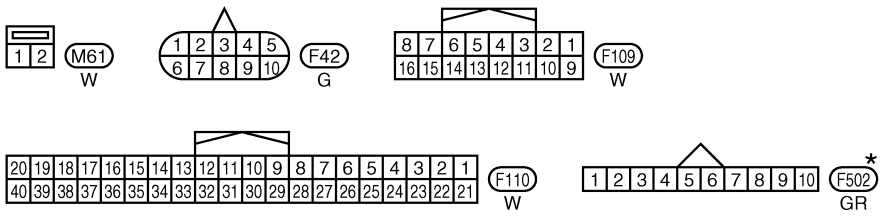


Wiring Diagram — CAN —

NKS0046Q

LAN-CAN-49





REFER TO THE FOLLOWING.

F102 -SUPER MULTIPLE JUNCTION (SMJ)

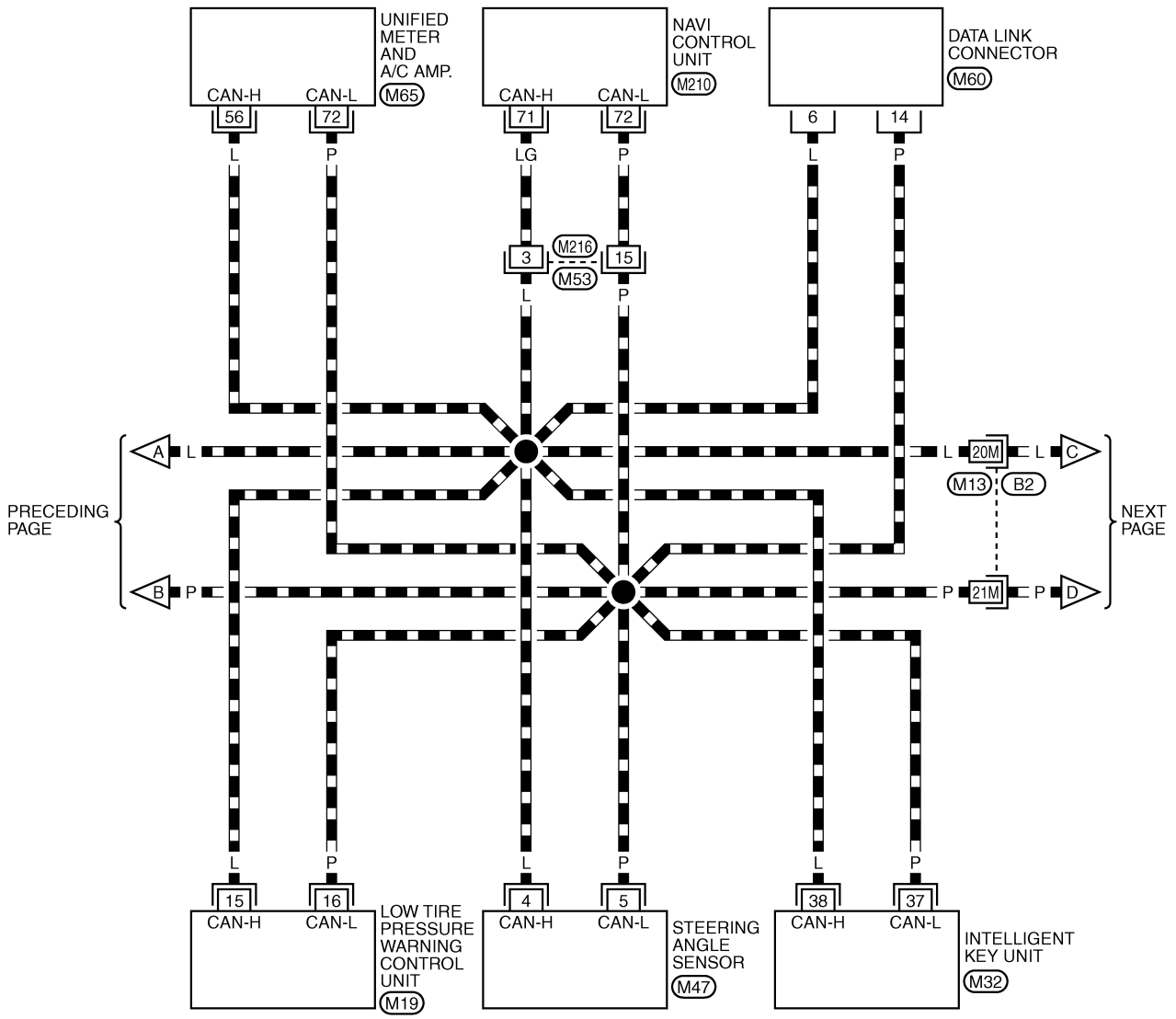
M1 , M71 -ELECTRICAL UNITS

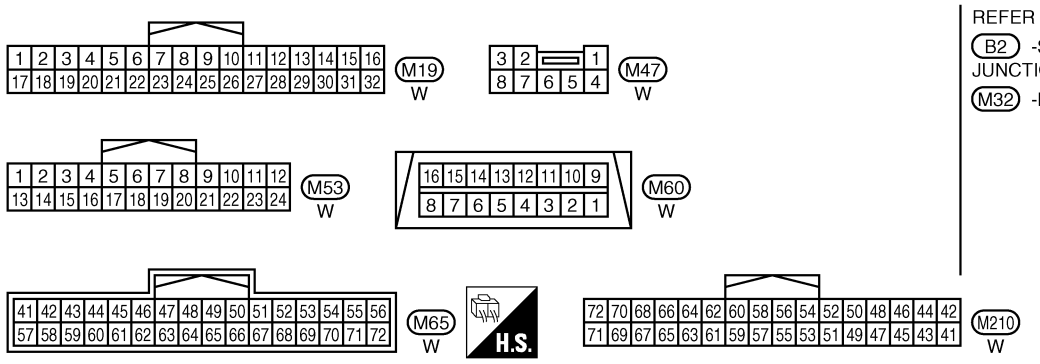
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3309E

LAN-CAN-50

: DATA LINE





REFER TO THE FOLLOWING.

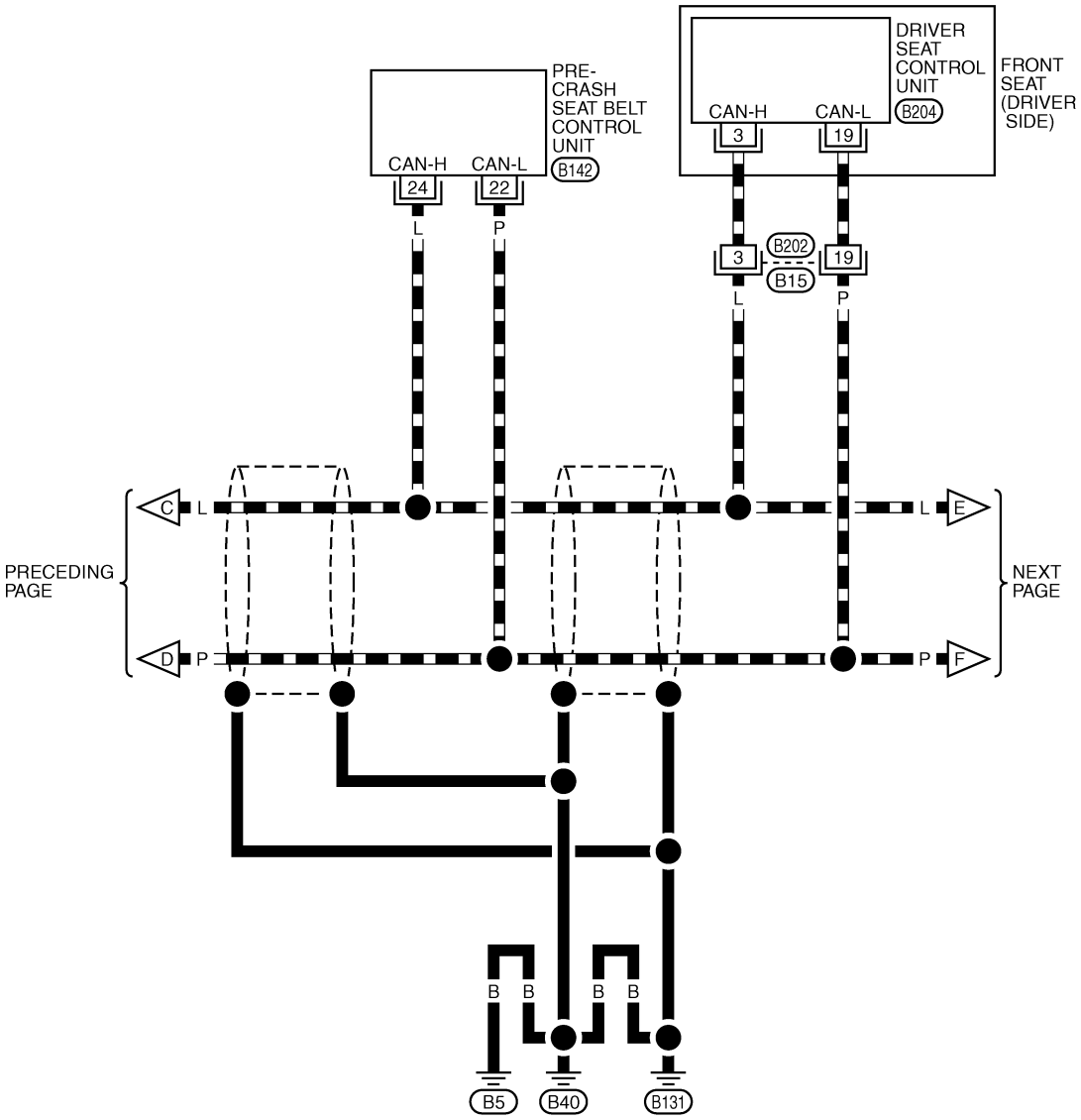
B2 -SUPER MULTIPLE JUNCTION (SMJ)

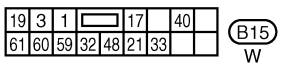
M32 -ELECTRICAL UNITS

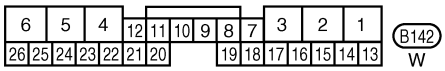
TKWT3310E

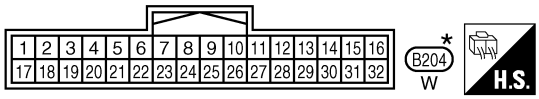
LAN-CAN-51

: DATA LINE







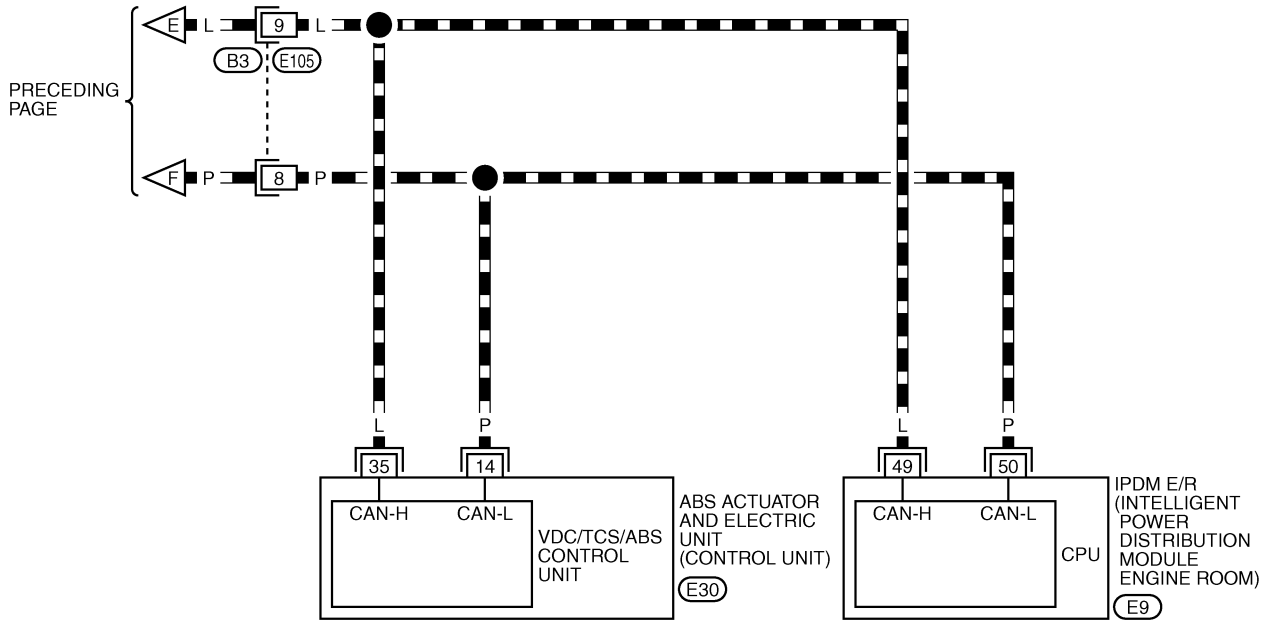


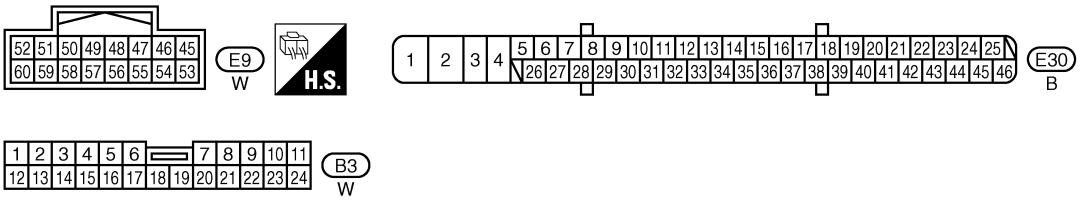
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3311E

LAN-CAN-52

: DATA LINE





TKWT3312E

Check Sheet

NKS0046R

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

Check sheet table

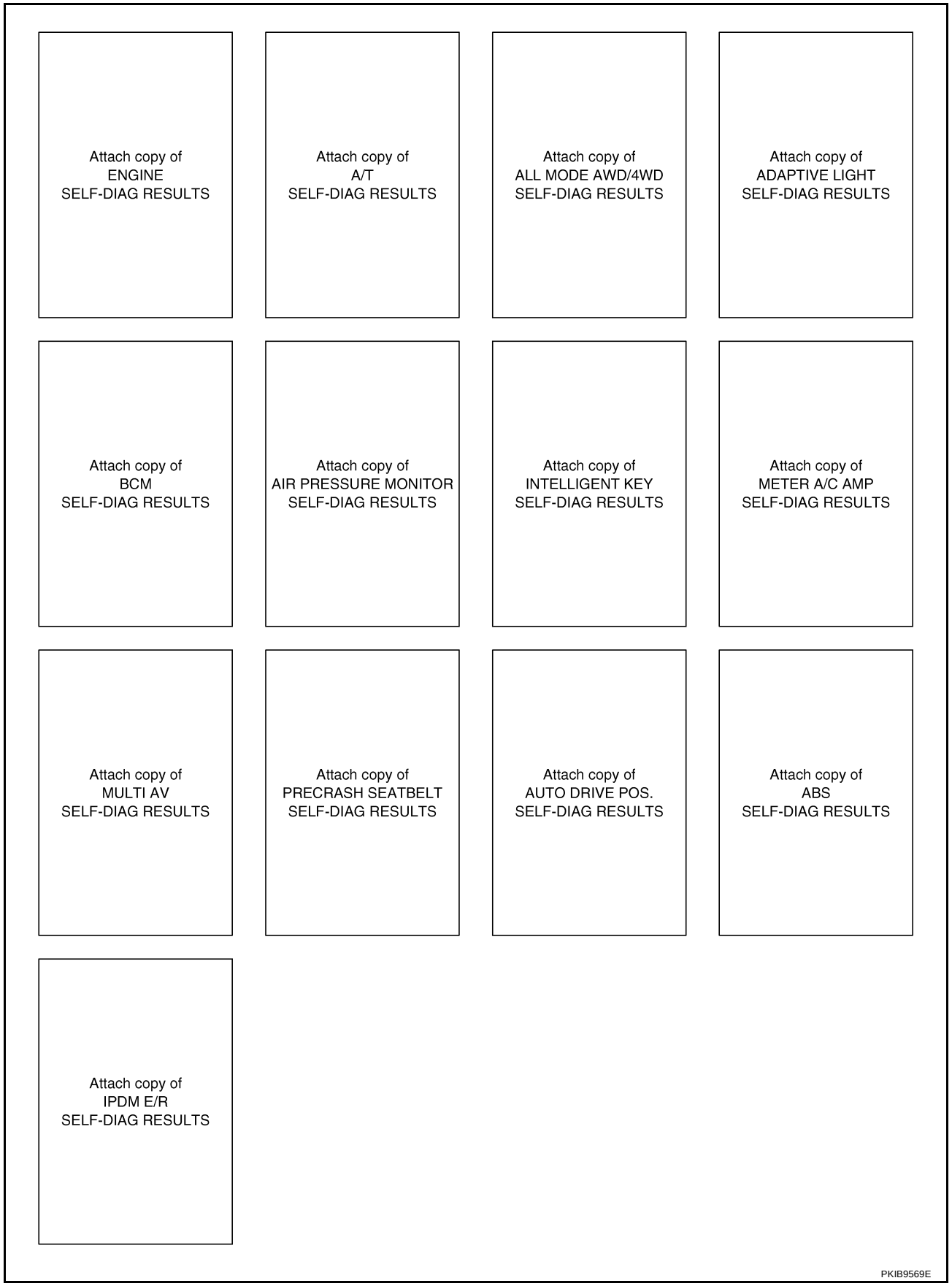
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	AWD/ 4WD	AFS	BCM	TIRE-P	STRG	I-KEY	METER /M&A	MULTI AV	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	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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SELF-DIAG RESULTS
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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
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METER A/C AMP
SELF-DIAG RESULTS
Attach copy of
MULTI AV
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Attach copy of
PRECRASH SEATBELT
SELF-DIAG RESULTS
Attach copy of
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IPDM E/R
SELF-DIAG RESULTS
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MNTR

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ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIB9570E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

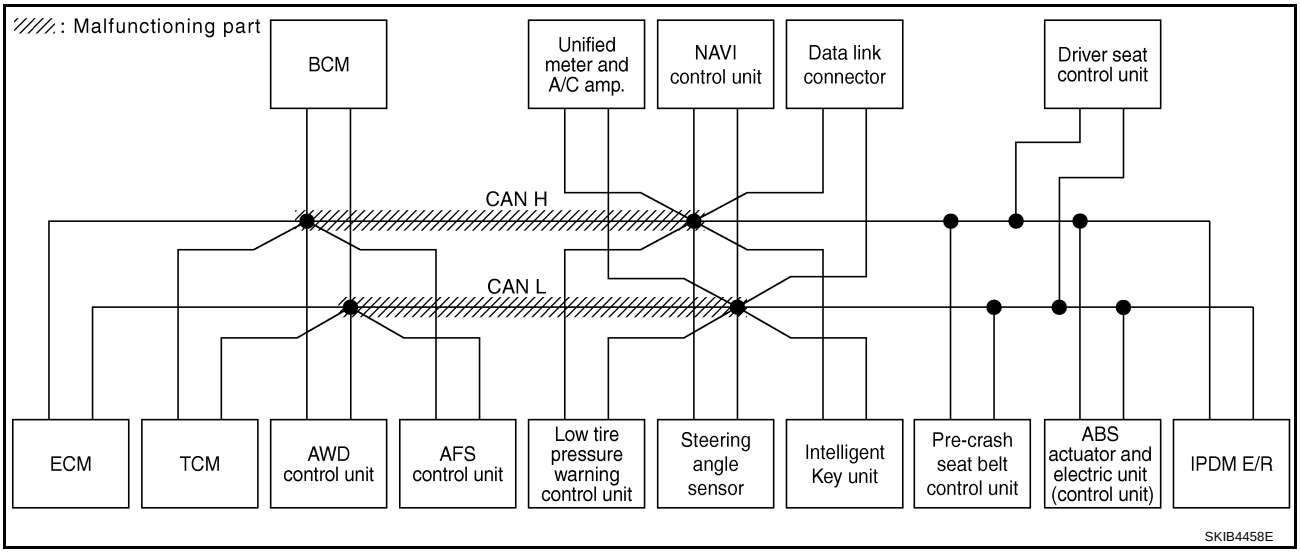
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	—	—	—	✓	—	✓	✓	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	—	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	—	CAN COMM CIRCUIT (U1000)	—
MULTI AV	No indication	—	UNKWN	✓	—	—	—	✓	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
PRECRASH SEATBELT	No indication	—	—	✓	✓	—	—	—	—	—	—	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	✓	—	—	—	✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8540E

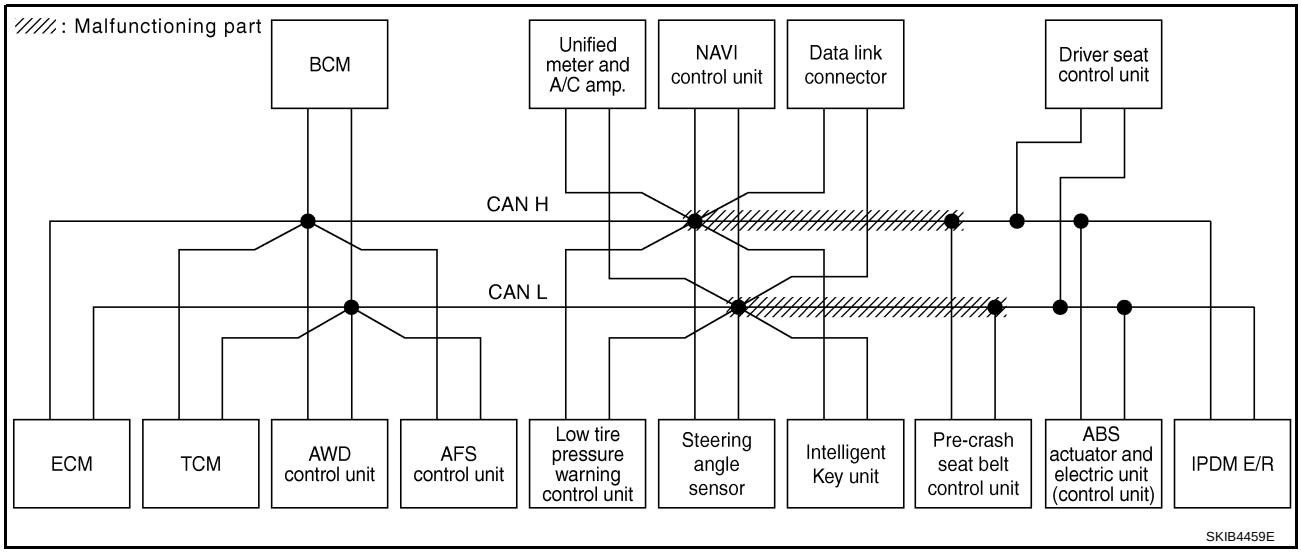


Case 2

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8541E



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" .

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)	—

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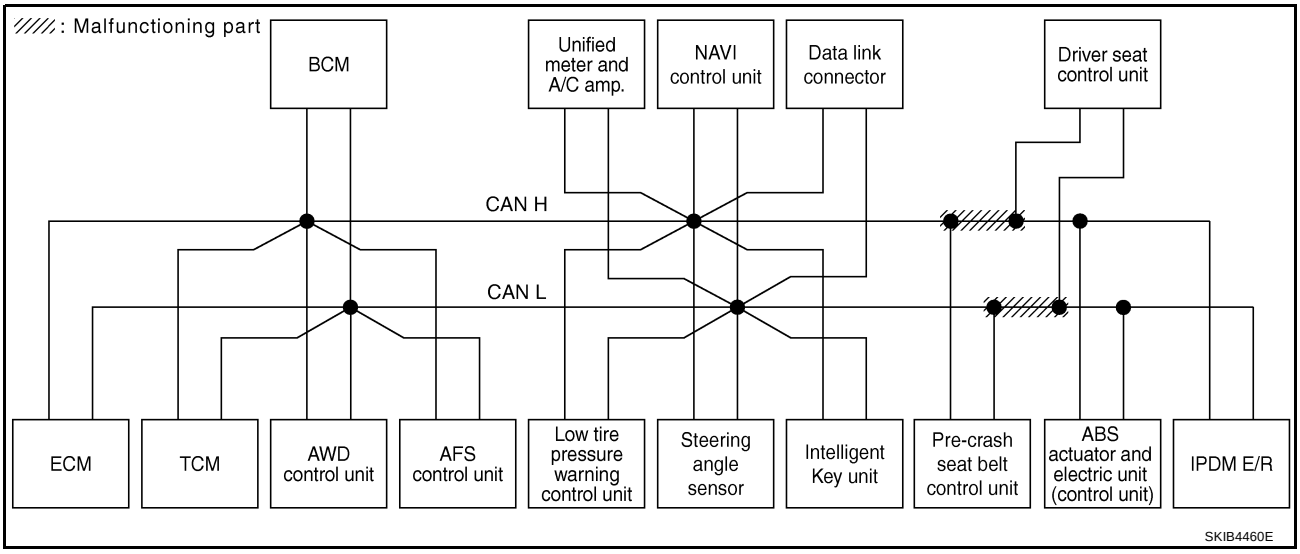

Case 4

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													
				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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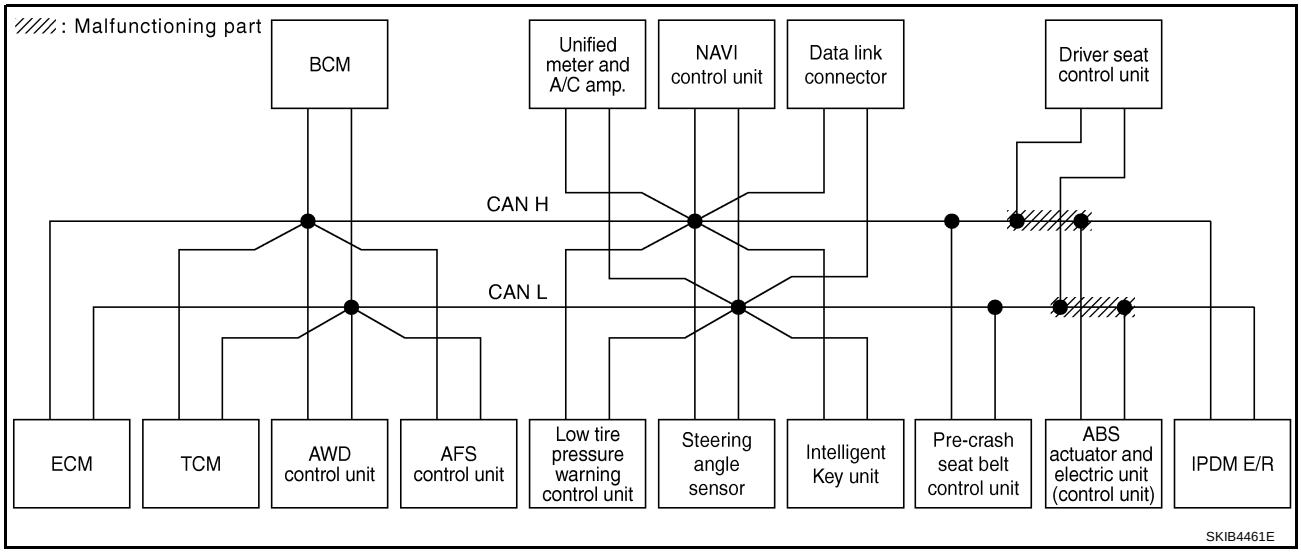

Case 5

Check ECM circuit. Refer to LAN-688, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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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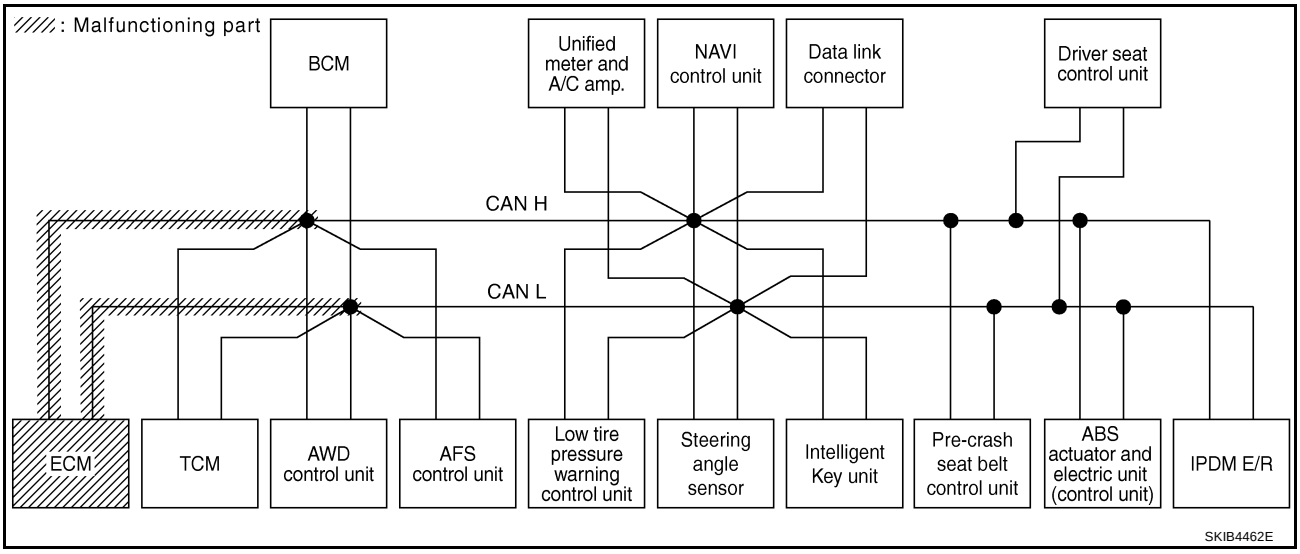


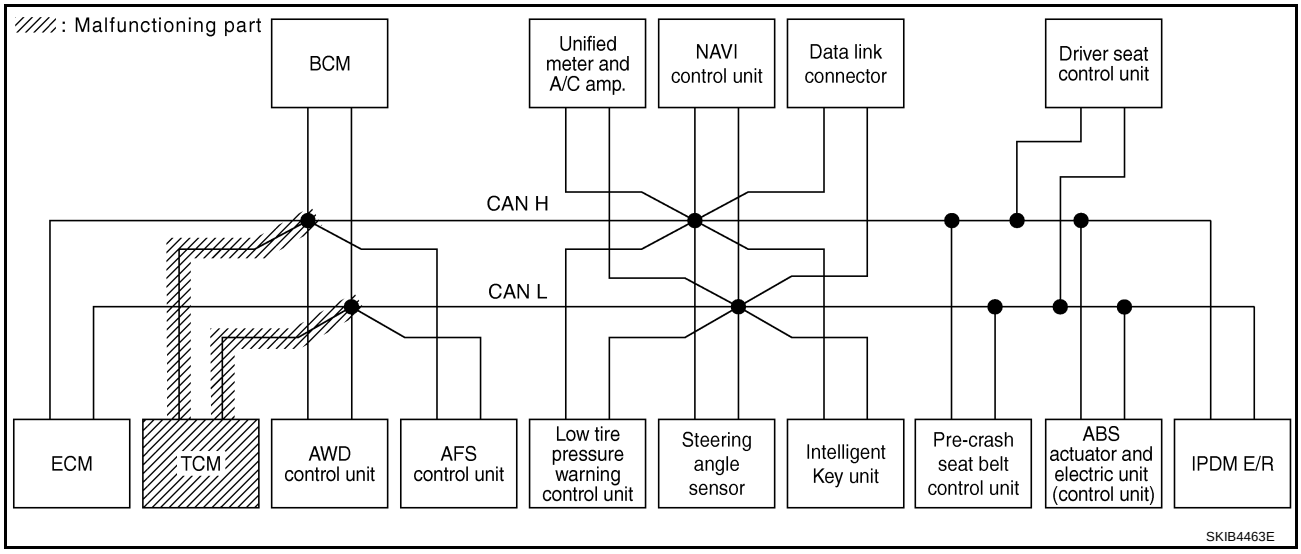
SKIB4462E

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	—	✓ 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)	—

PKIB8545E



Case 7

Check AWD control unit circuit. Refer to LAN-689, "AWD Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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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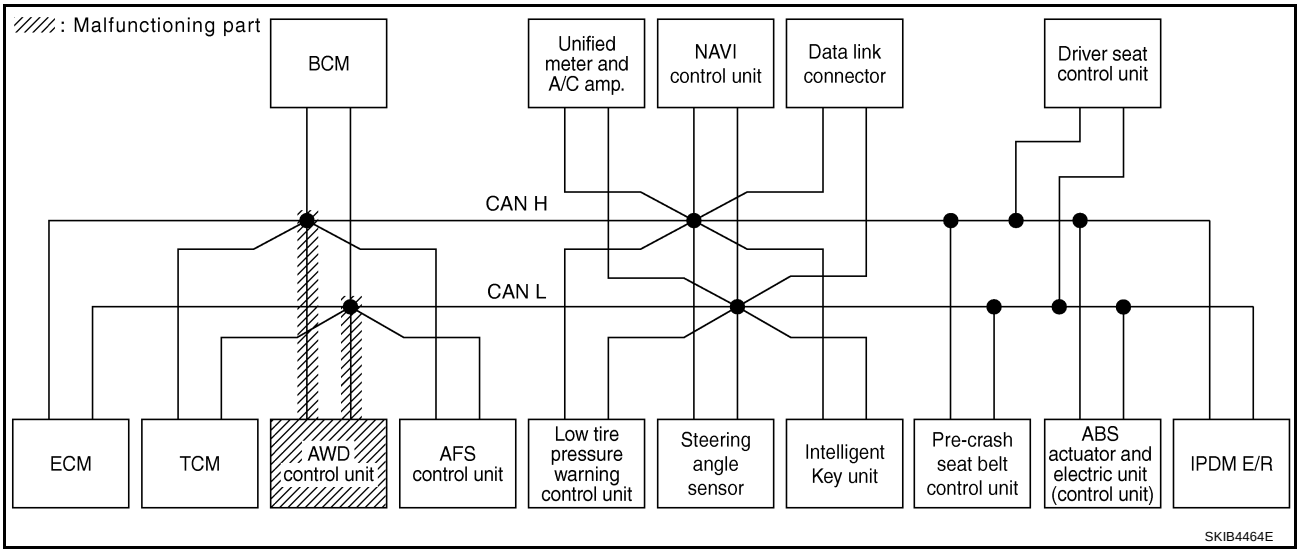


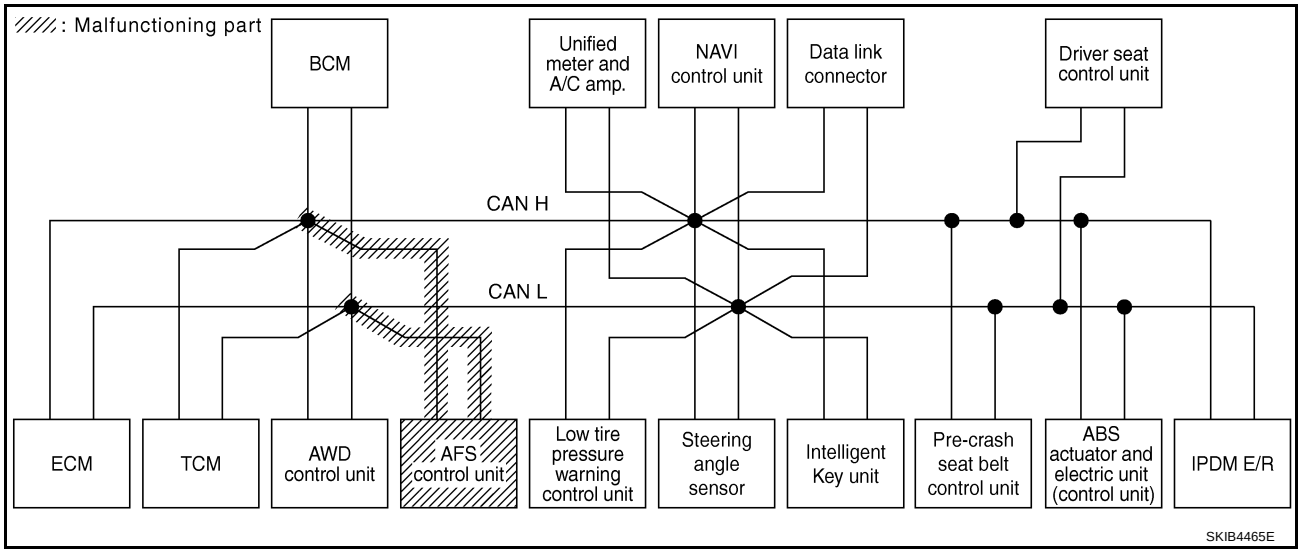
SKIB4464E

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

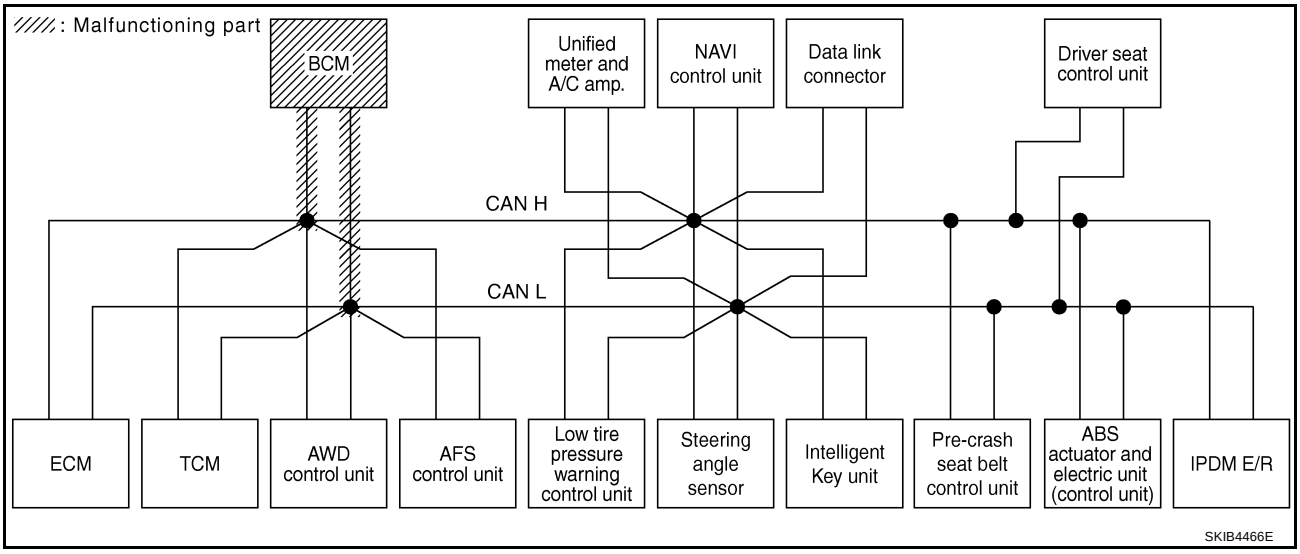


Case 9

Check BCM circuit. Refer to LAN-690, "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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) ✓	—

PKIB8548E



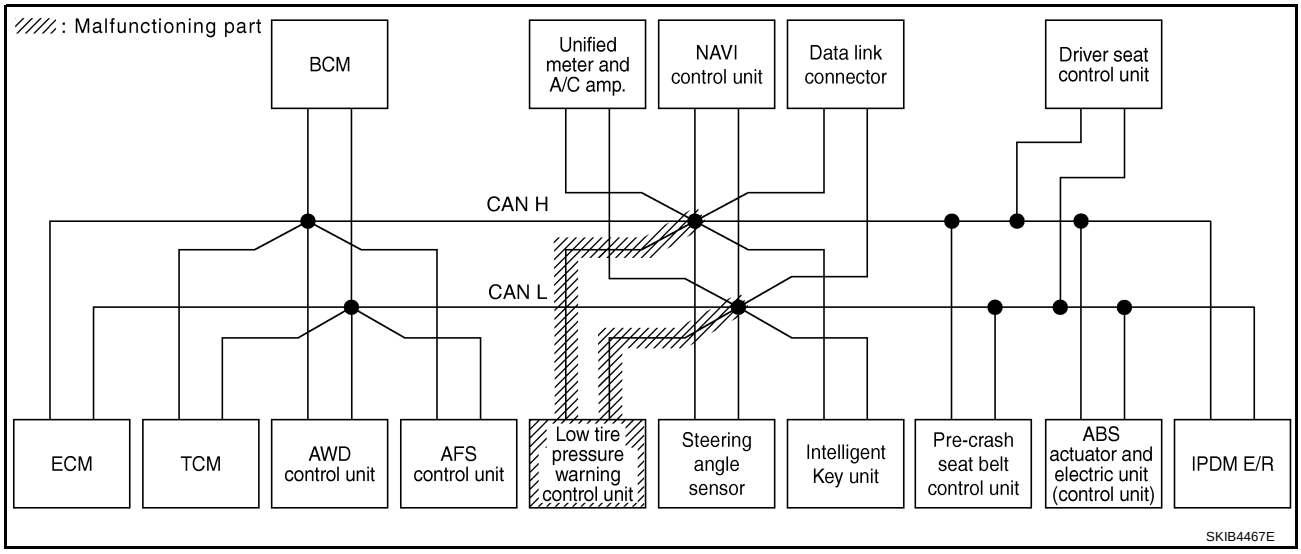
SKIB4466E

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



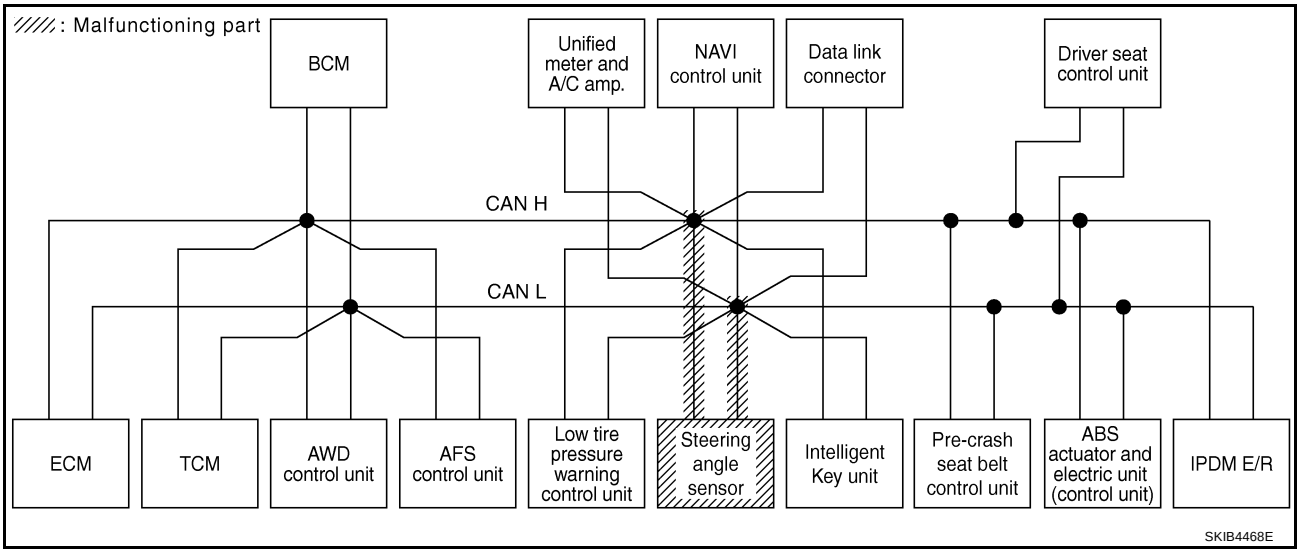
SKIB4467E

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													
				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



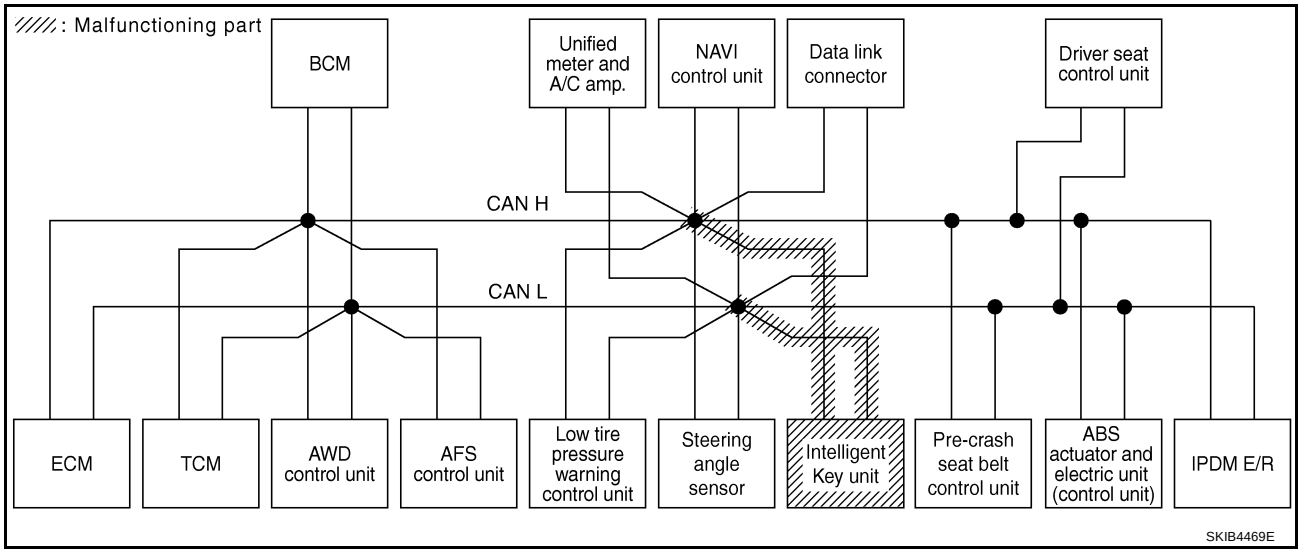
SKIB4468E

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



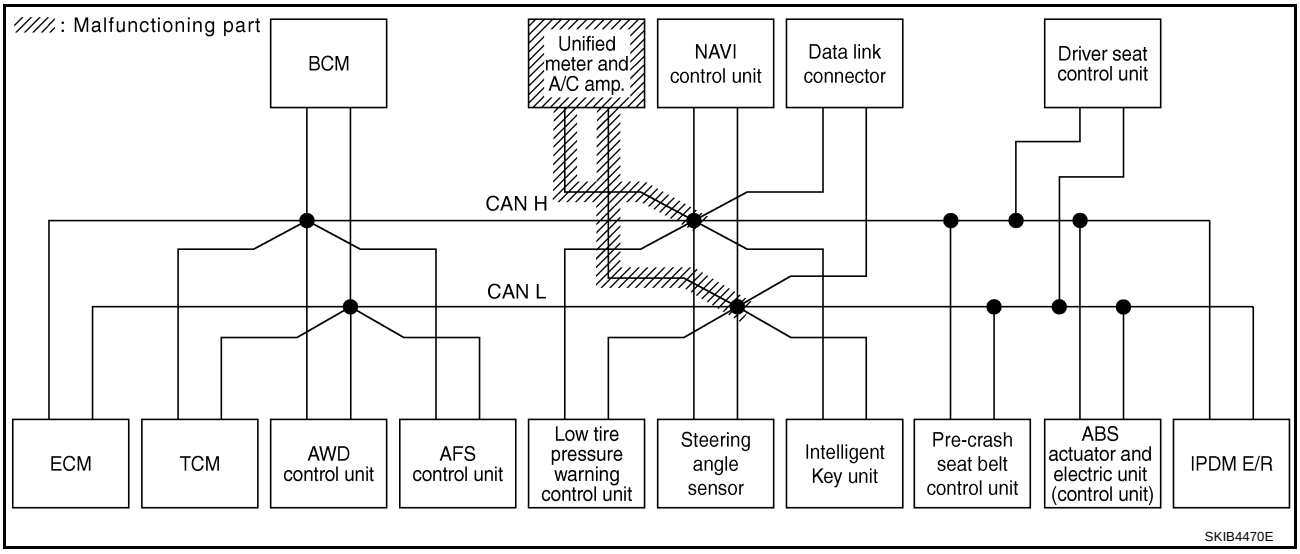
SKIB4469E

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		
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)	—
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	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	—	—	—	—	—	—	✓	—	—	—	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)	—

PKIB8552E



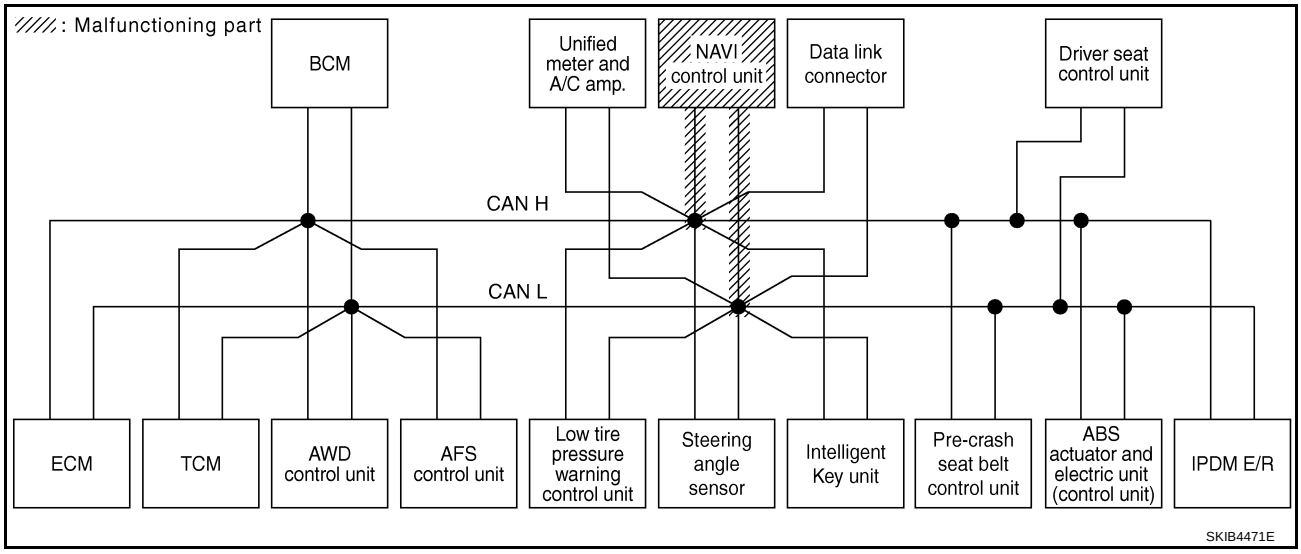
SKIB4470E

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													
				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



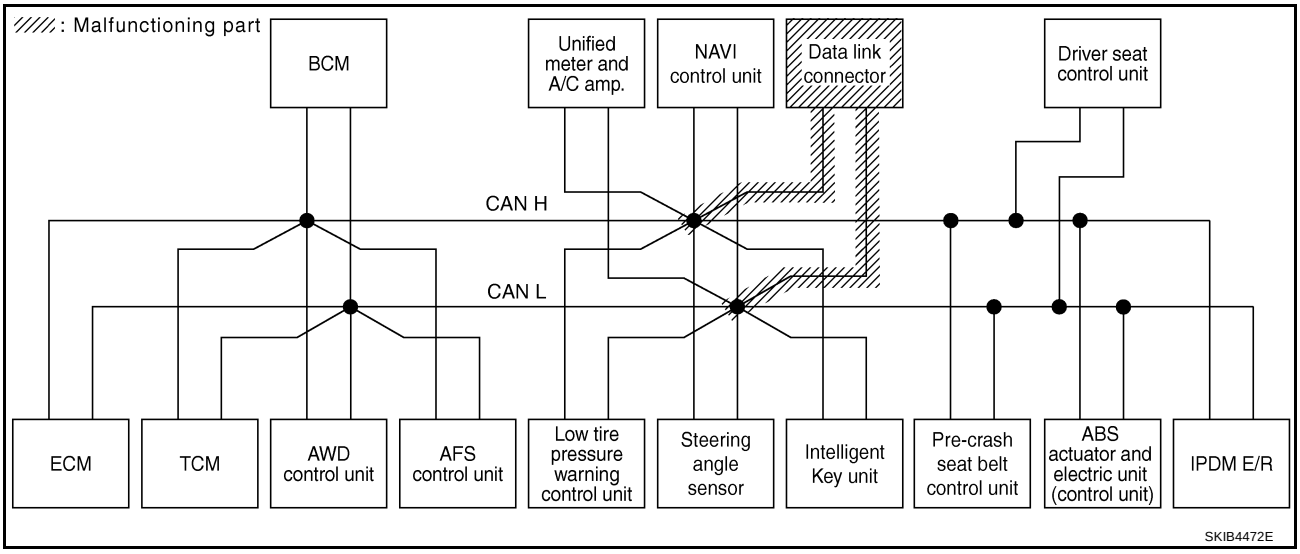
SKIB4471E

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		
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



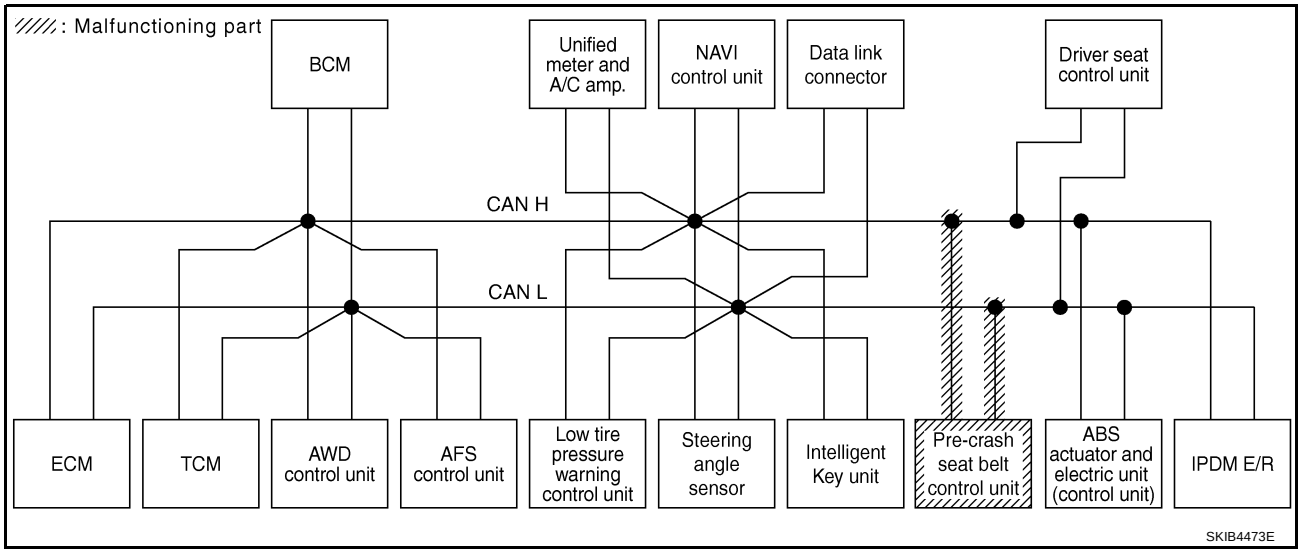
SKIB4472E

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



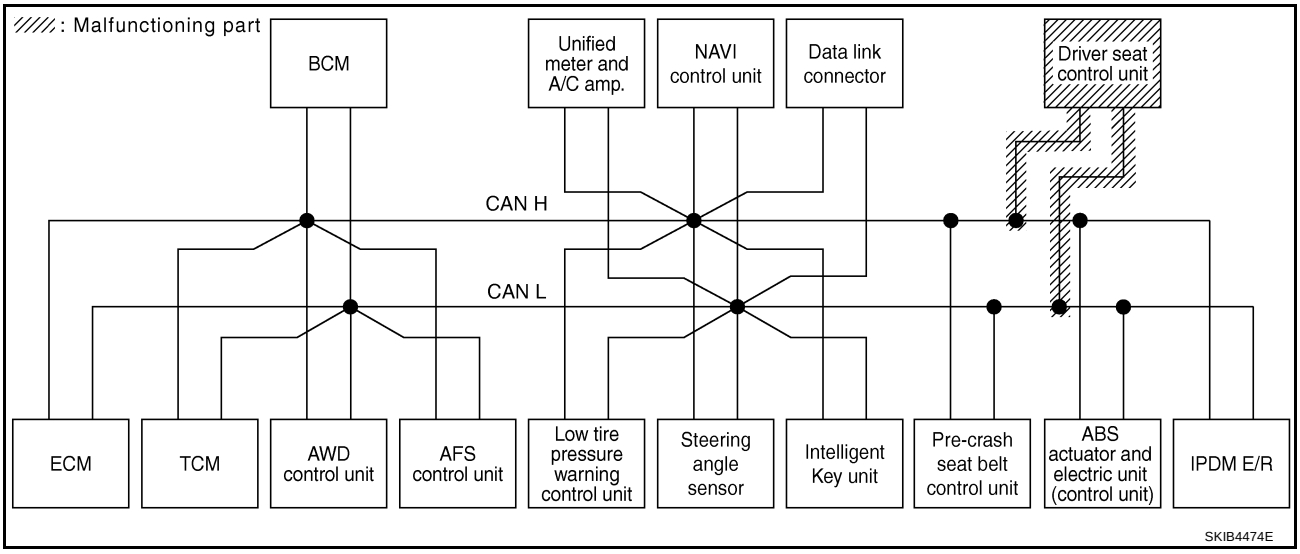
SKIB4473E

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		
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



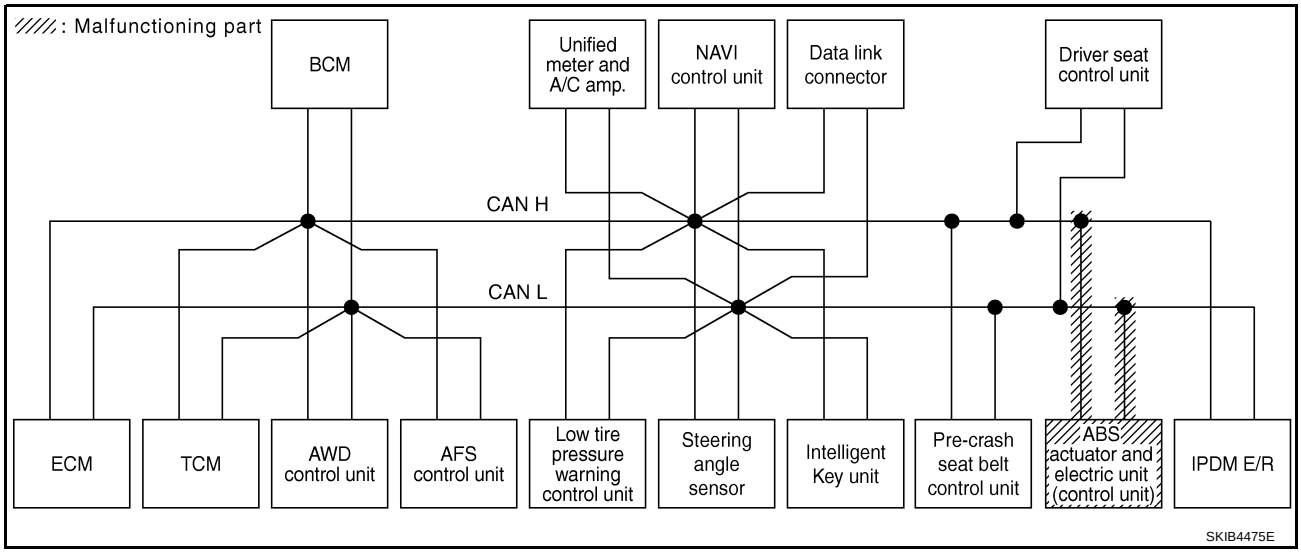
SKIB4474E

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: 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	SELF-DIAG RESULTS	
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)	—

PKIB8557E



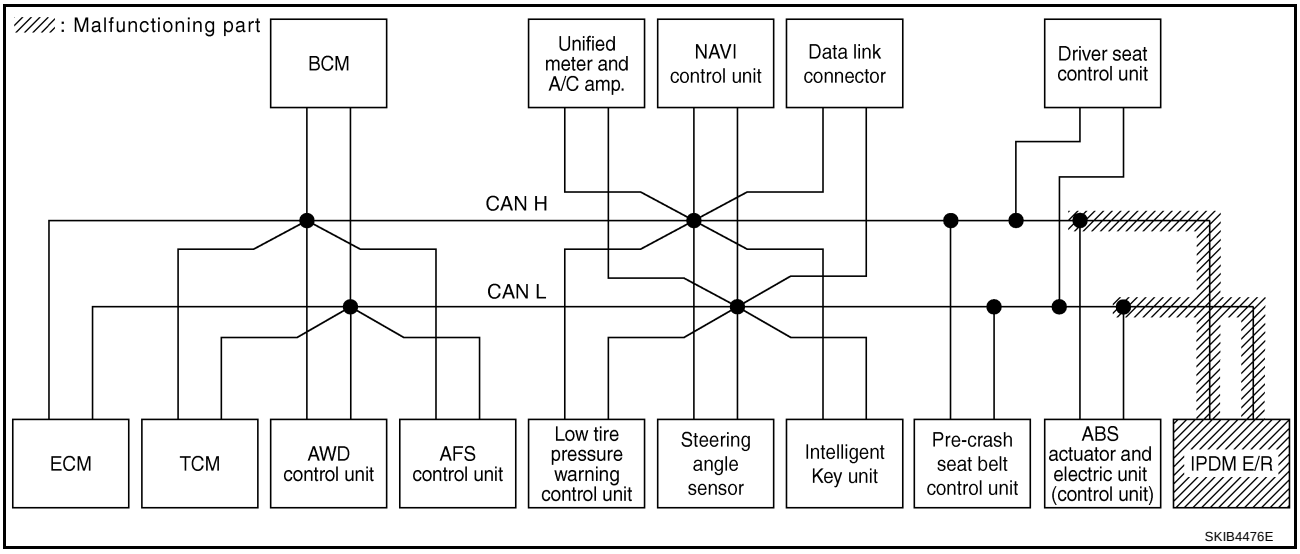
SKIB4475E

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		
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

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													
				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)	—

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													
				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)	—

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: 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	SELF-DIAG RESULTS	
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

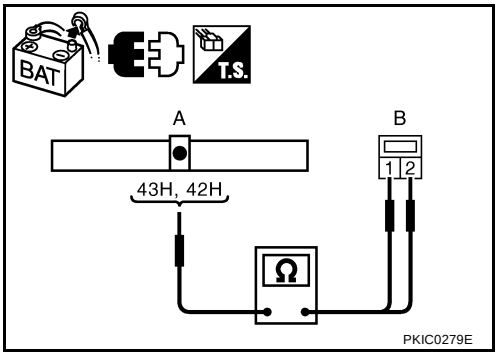
OK or NG

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



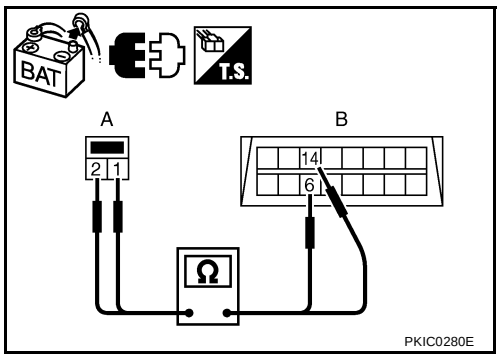
PKIC0279E

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

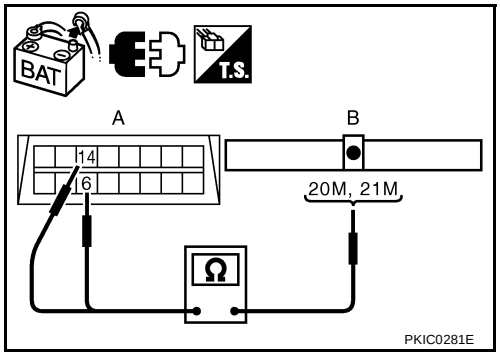
OK or NG

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

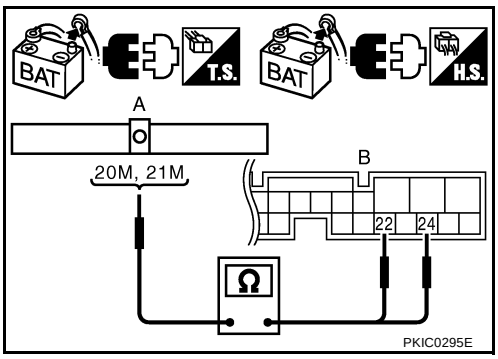
OK >> GO TO 3.

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

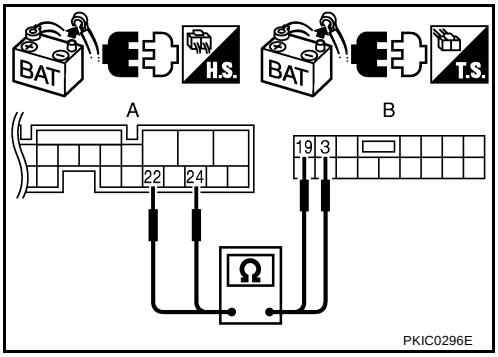
1. CHECK CONNECTOR

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

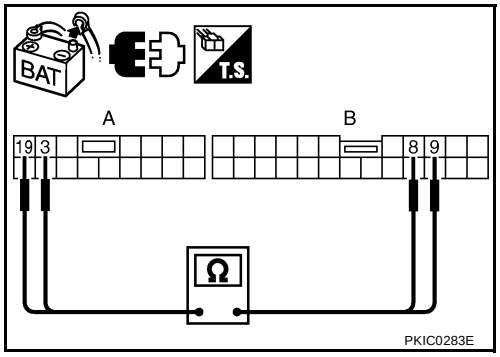
OK >> GO TO 2.

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



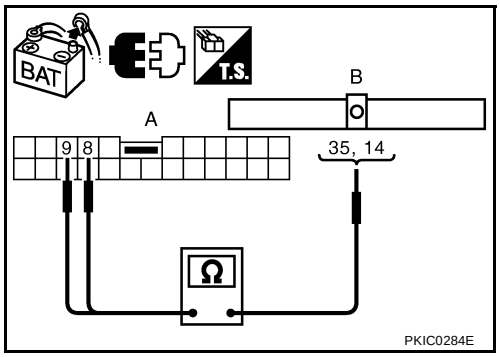
OK or NG

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

NKS0046W

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).

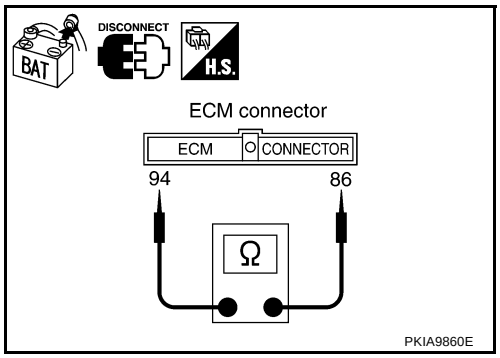
OK or NG

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

NKS0046X

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

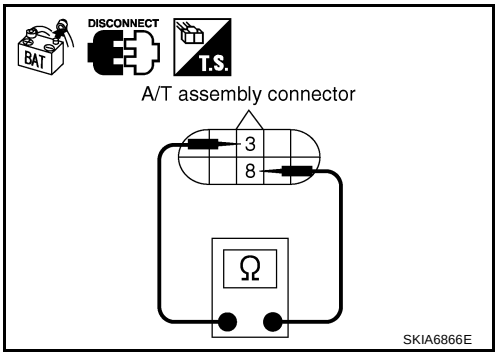
OK or NG

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

NKS0046Y

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

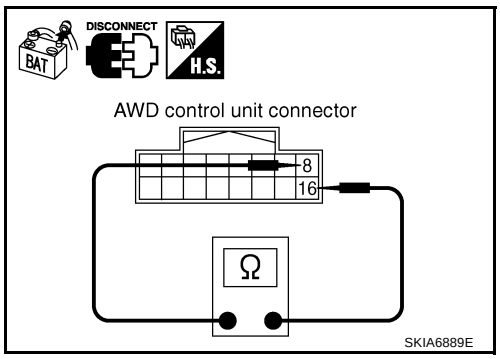
OK or NG

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

NKS0046Z

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

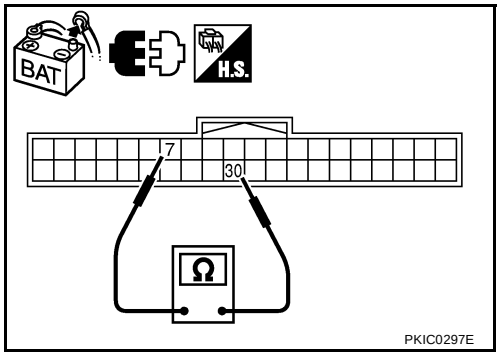
OK or NG

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

NKS00470

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).

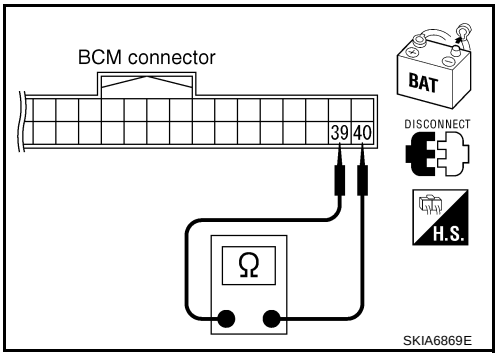
OK or NG

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).

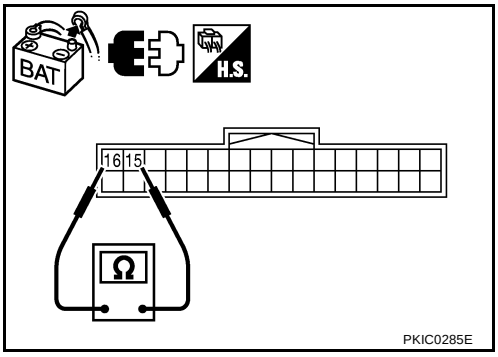
OK or NG

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).

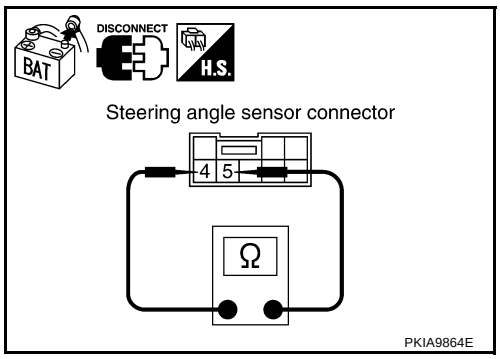
OK or NG

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.)
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

NKS00473

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).

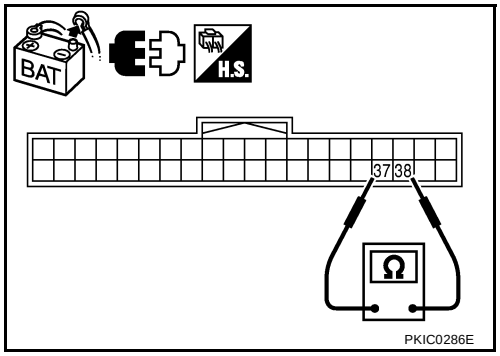
OK or NG

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

NKS00474

1. CHECK CONNECTOR

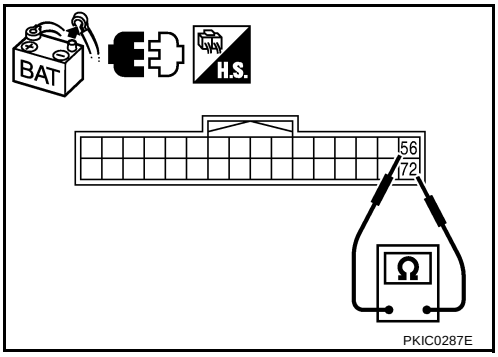
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS00475

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).

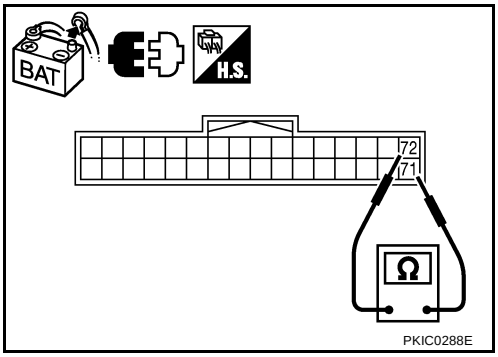
- NAVI control unit connector
- Harness connector M216
- Harness connector M53

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

NKS00476

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).

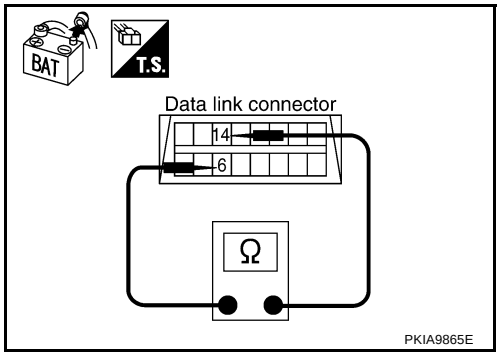
OK or NG

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

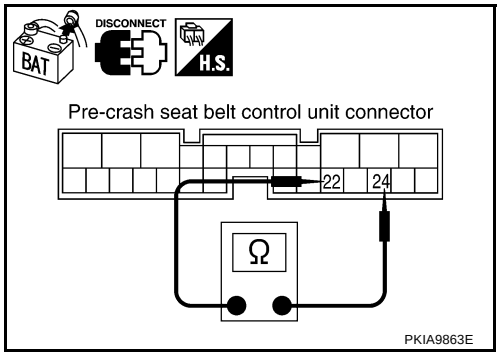
OK >> GO TO 2.

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

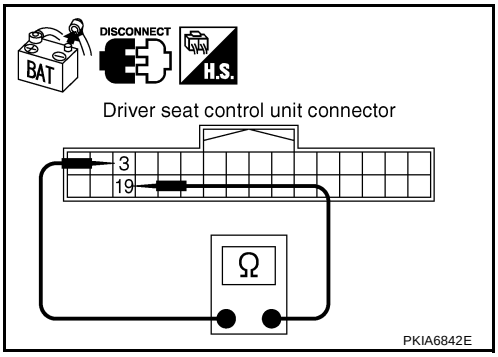
OK >> GO TO 2.

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).

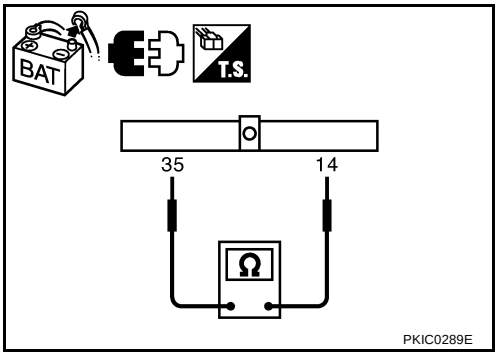
OK or NG

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).

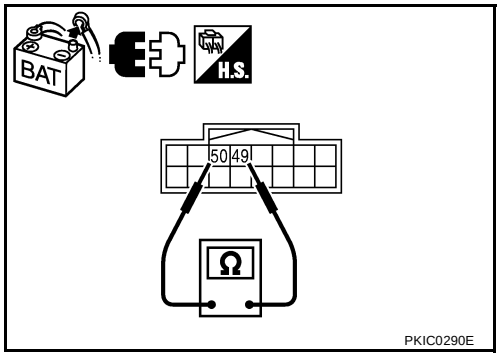
OK or NG

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.

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

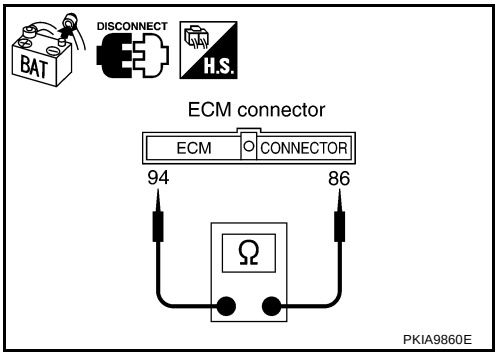
OK >> GO TO 2.
NG >> Repair terminal or connector.

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

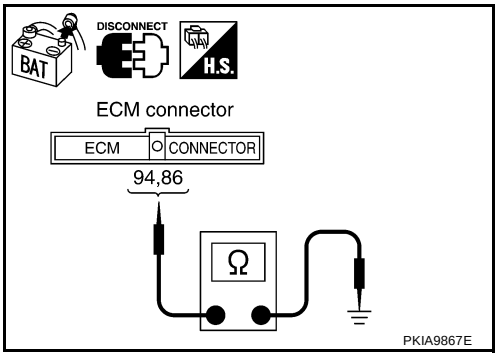
OK >> GO TO 3.

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		Continuity
M71	94	Ground	No
	86		No



OK or NG

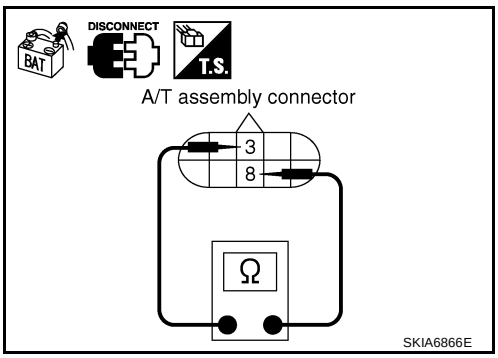
OK >> GO TO 4.

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 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

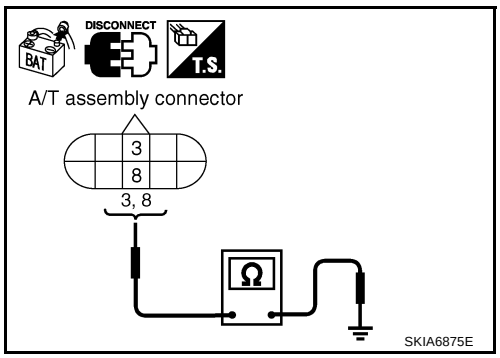
OK >> GO TO 5.

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



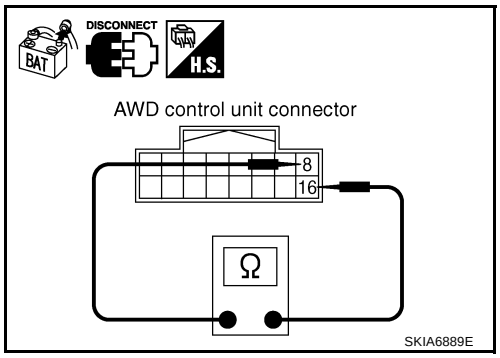
OK or NG

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



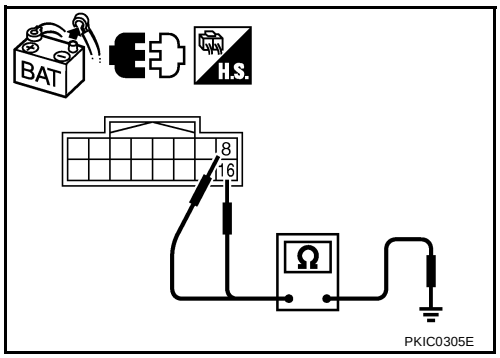
OK or NG

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



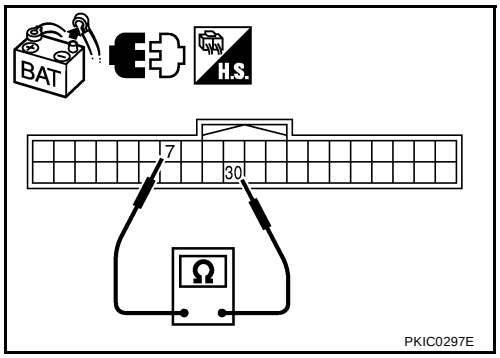
OK or NG

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



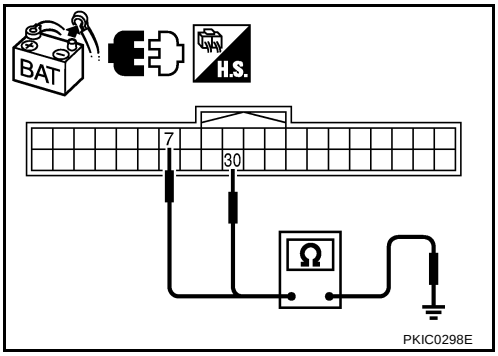
OK or NG

OK >> GO TO 9.
NG >> Repair harness between AFS control unit and harness connector F102.

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

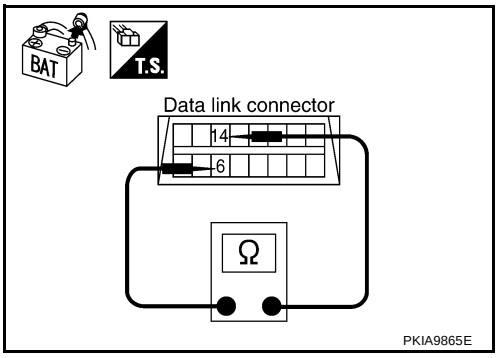
OK >> GO TO 10.
NG >> Replace harness between AFS control unit and harness connector F102.

10. CHECK HARNESS FOR SHORT CIRCUIT

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



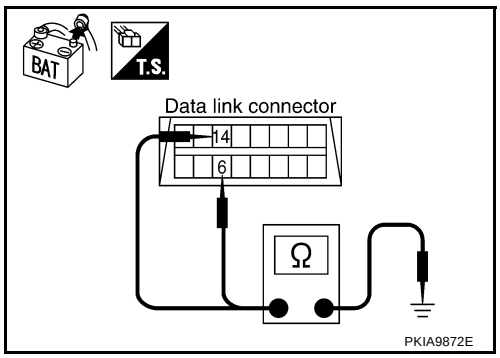
OK or NG

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		No
	14		No



OK or NG

OK >> GO TO 12.

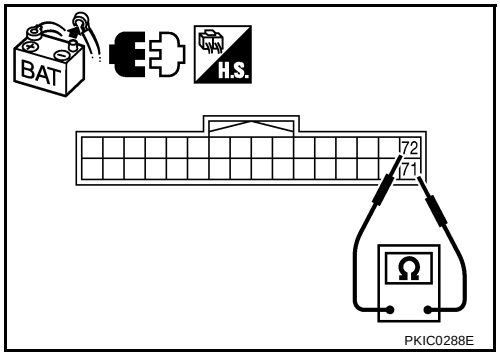
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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		Continuity
M210	71	72	No



OK or NG

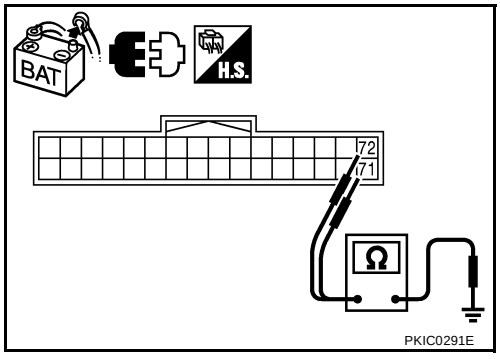
OK >> GO TO 13.

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		No
	72		No



OK or NG

OK >> GO TO 14.

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

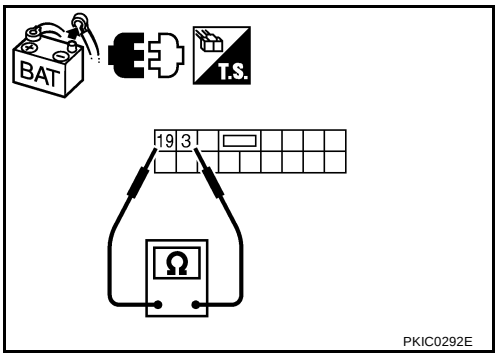
14. CHECK HARNESS FOR SHORT CIRCUIT

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.



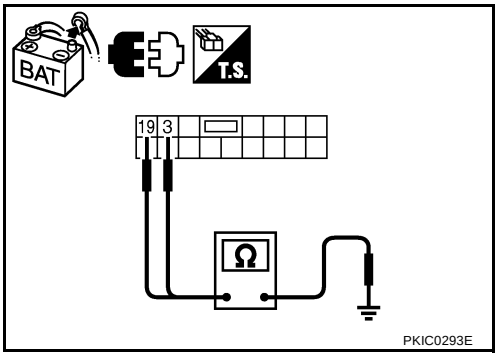
15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No

OK or NG

OK >> GO TO 16.
NG >> Replace harness.



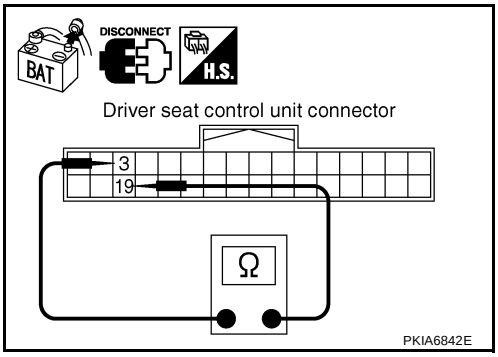
16. CHECK HARNESS FOR SHORT CIRCUIT

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

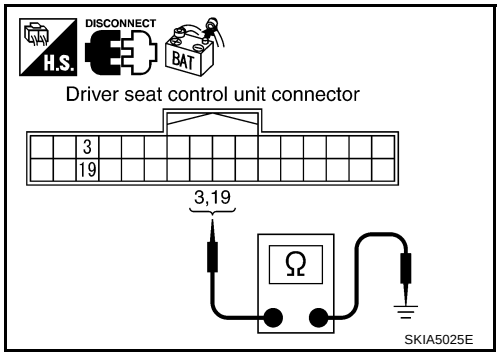
OK >> GO TO 17.
NG >> Repair harness between driver seat control unit and harness connector B202.



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

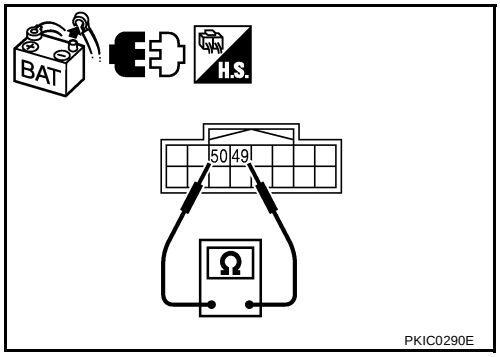
OK >> GO TO 18.

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.

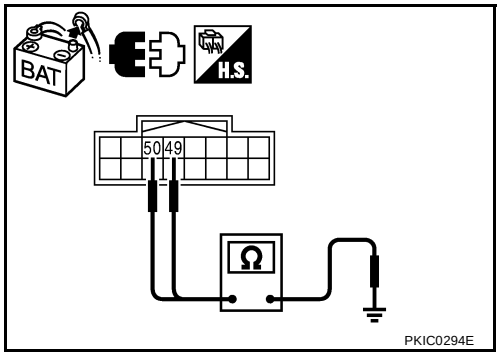
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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)

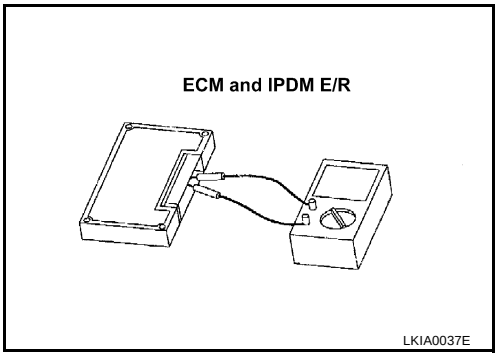
20. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

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”" .

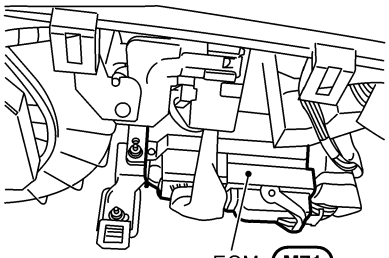
CAN SYSTEM (TYPE 15)

PFP:23710

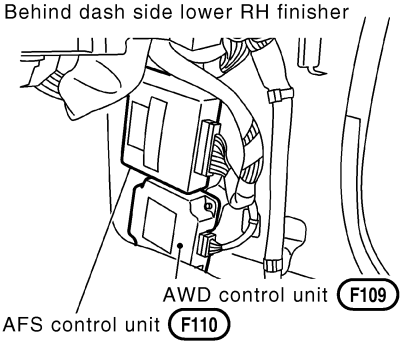
Component Parts and Harness Connector Location

NKS0047D

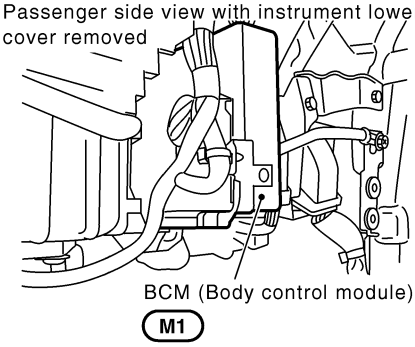
Passenger side view with instrument lower cover removed

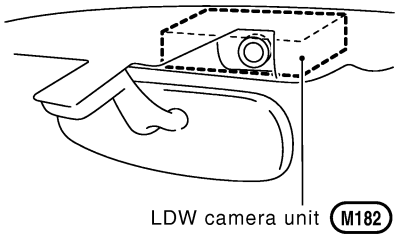


Behind dash side lower RH finisher

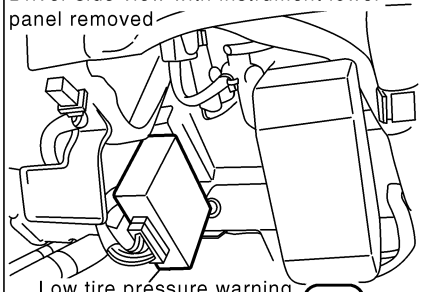


Passenger side view with instrument lower cover removed

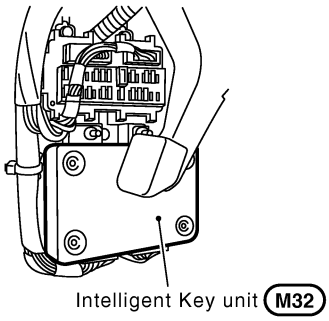




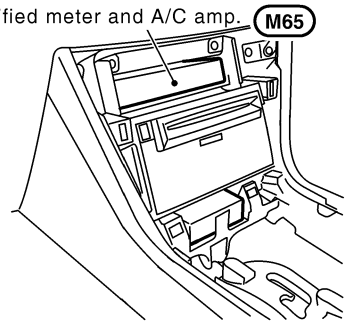
Driver side view with instrument lower panel removed



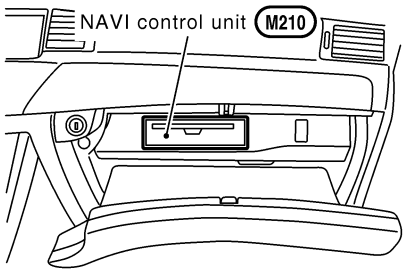
Behind dash side lower LH finisher



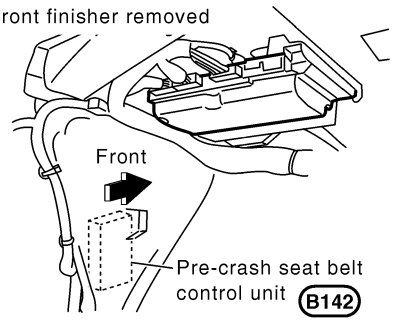
View with cluster lid C removed
Unified meter and A/C amp. M65



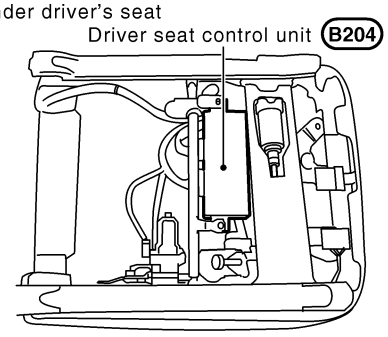
Inside of glove box



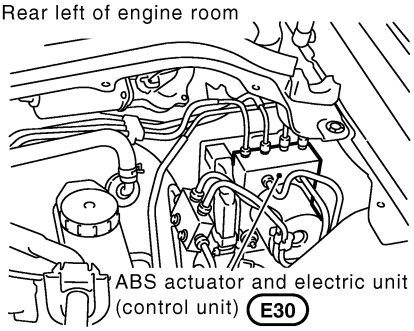
View with trunk side LH finisher and front finisher removed



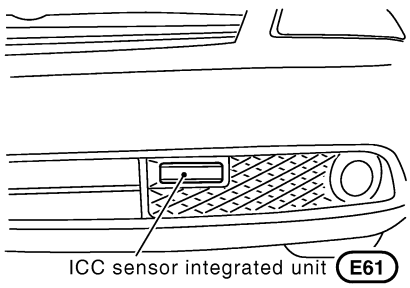
Under driver's seat



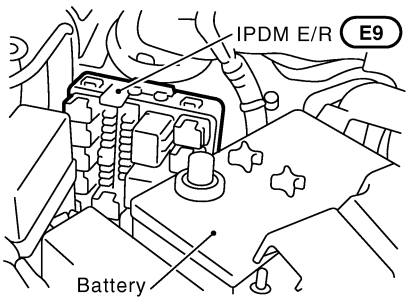
Rear left of engine room



Bumper LH



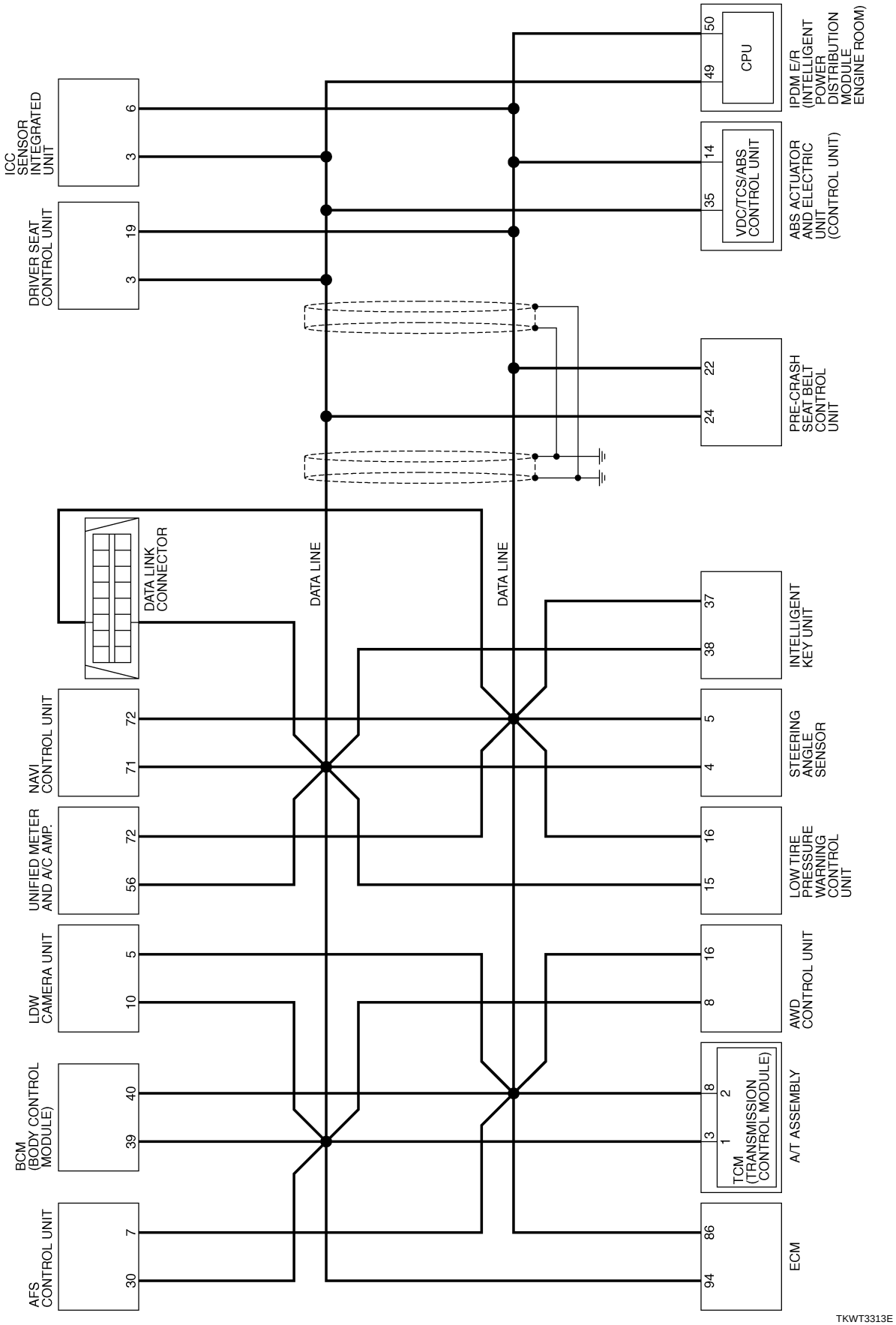
View with cowl top cover removed



PKIC0613E

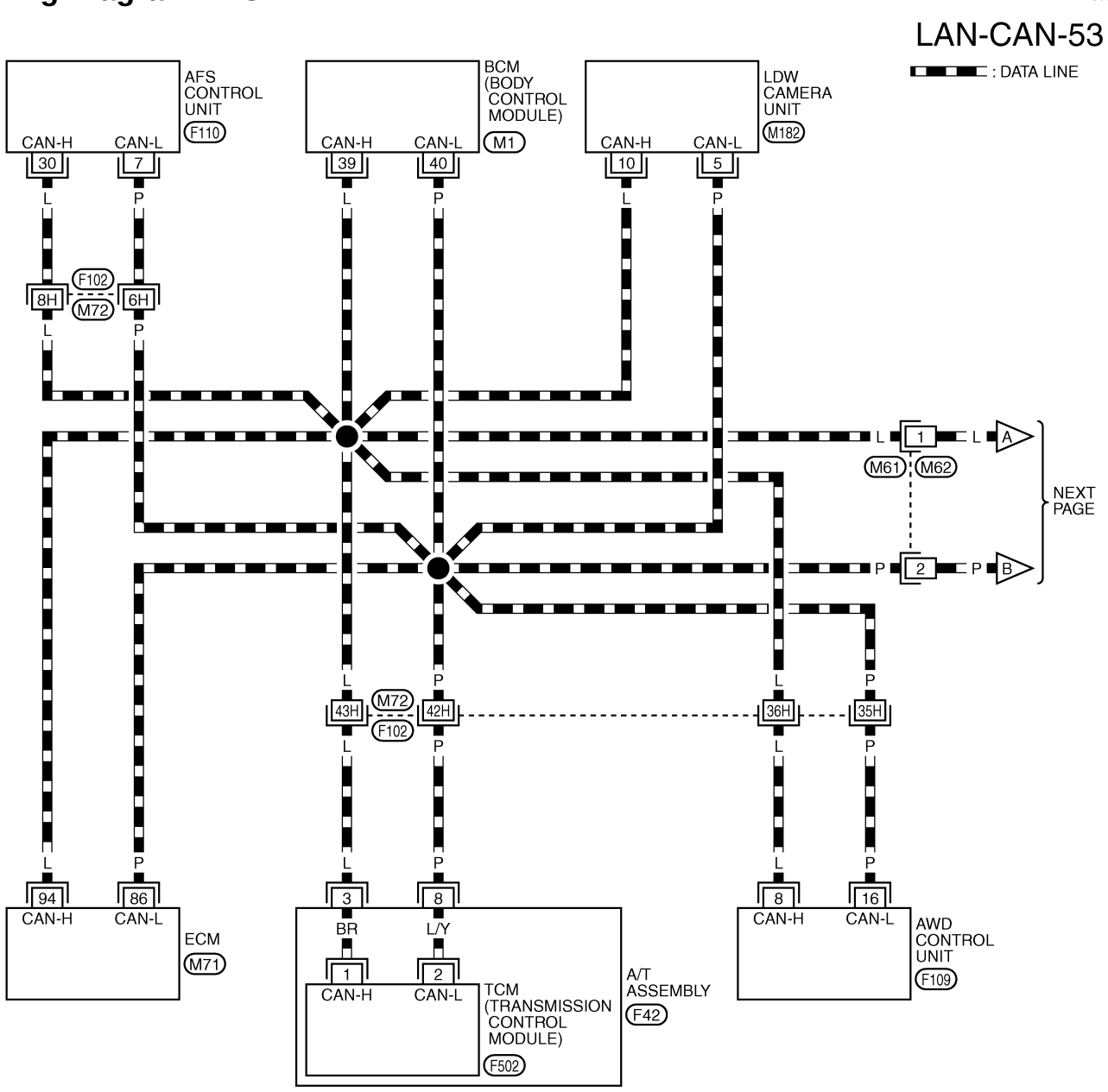
Schematic

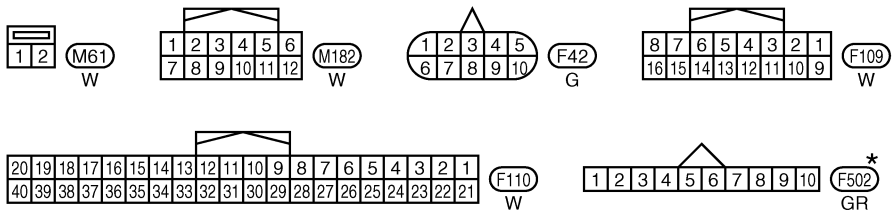
NKS0047E



Wiring Diagram — CAN —

NKS0047F





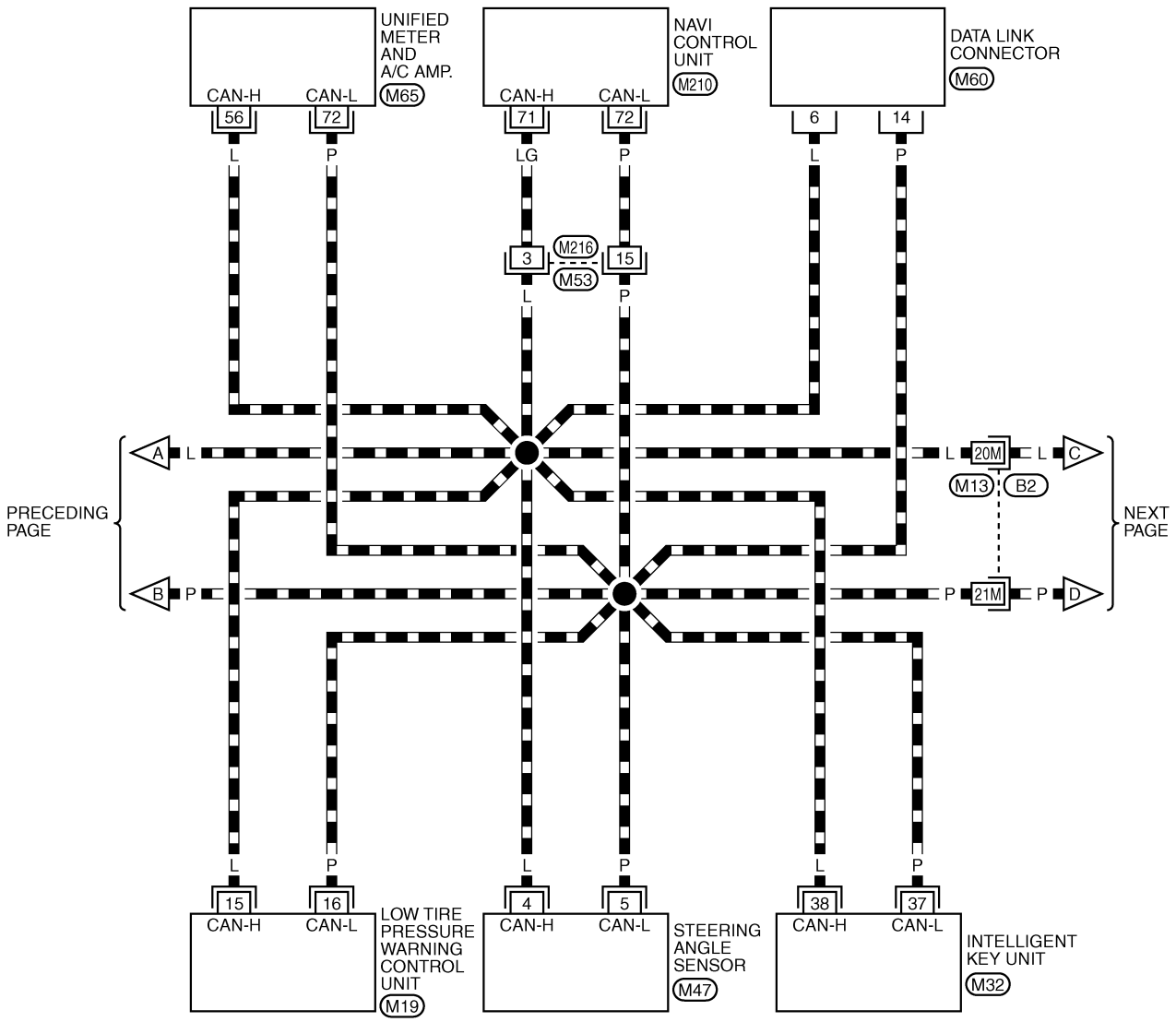
REFER TO THE FOLLOWING.
F102 -SUPER MULTIPLE JUNCTION (SMJ)
M1 , M71 -ELECTRICAL UNITS

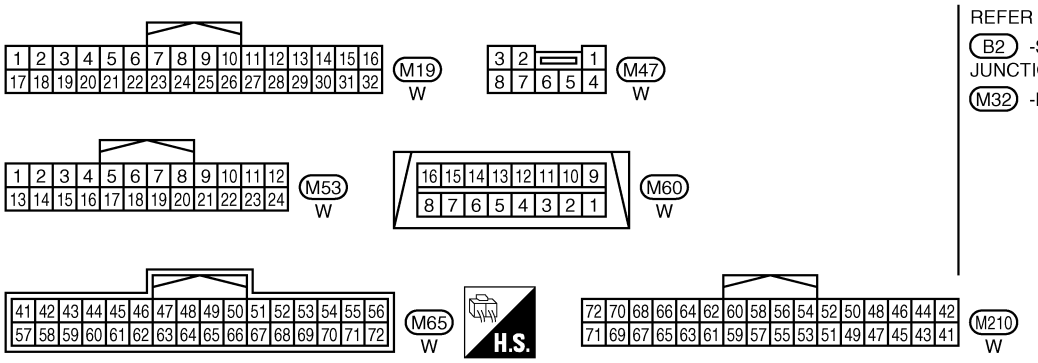
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3314E

LAN-CAN-54

: DATA LINE





REFER TO THE FOLLOWING.

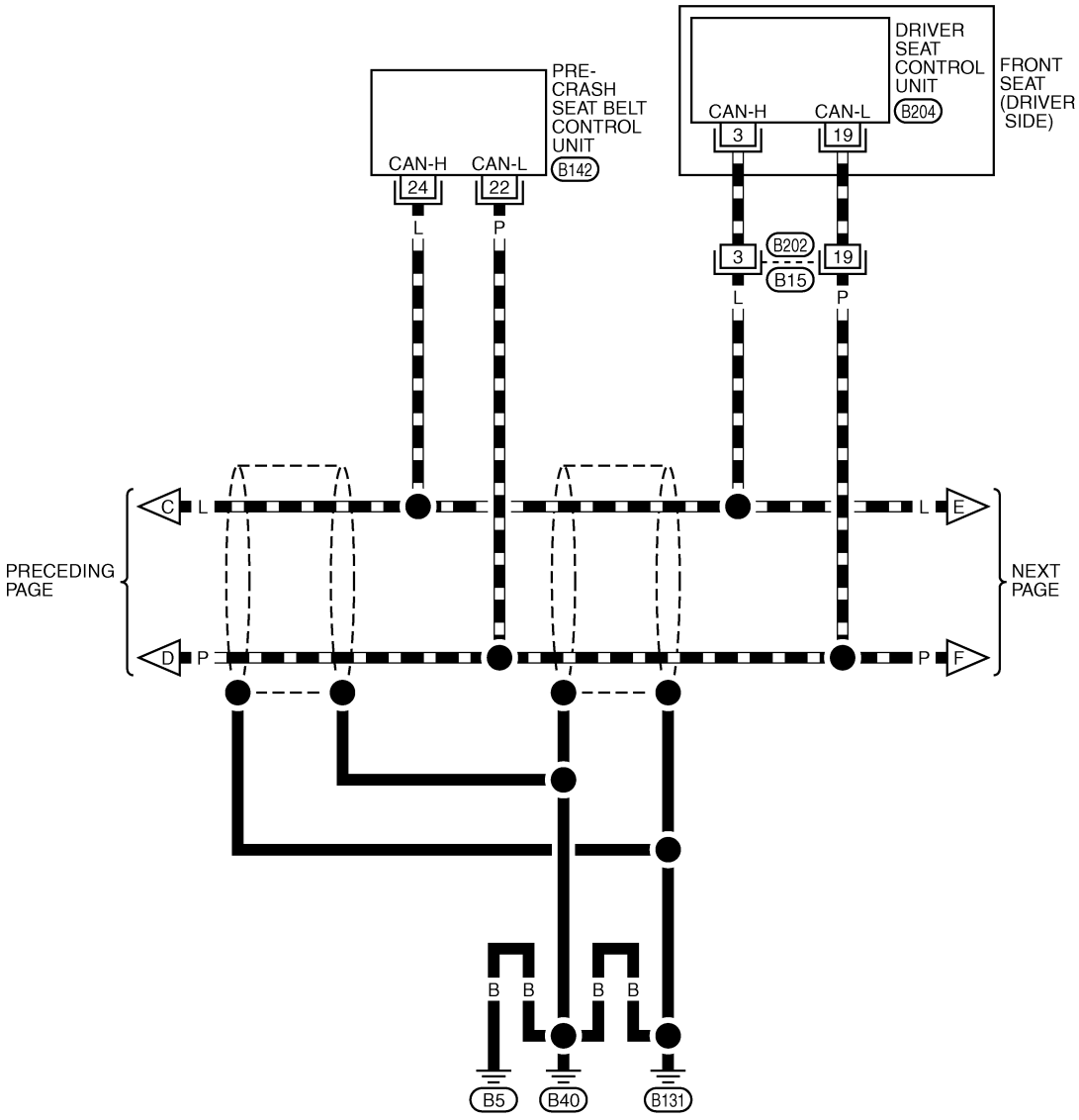
B2 -SUPER MULTIPLE JUNCTION (SMJ)

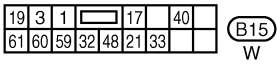
M32 -ELECTRICAL UNITS

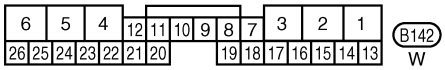
TKWT3315E

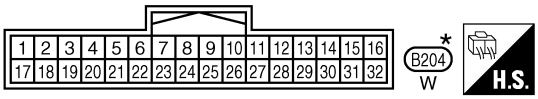
LAN-CAN-55

: DATA LINE







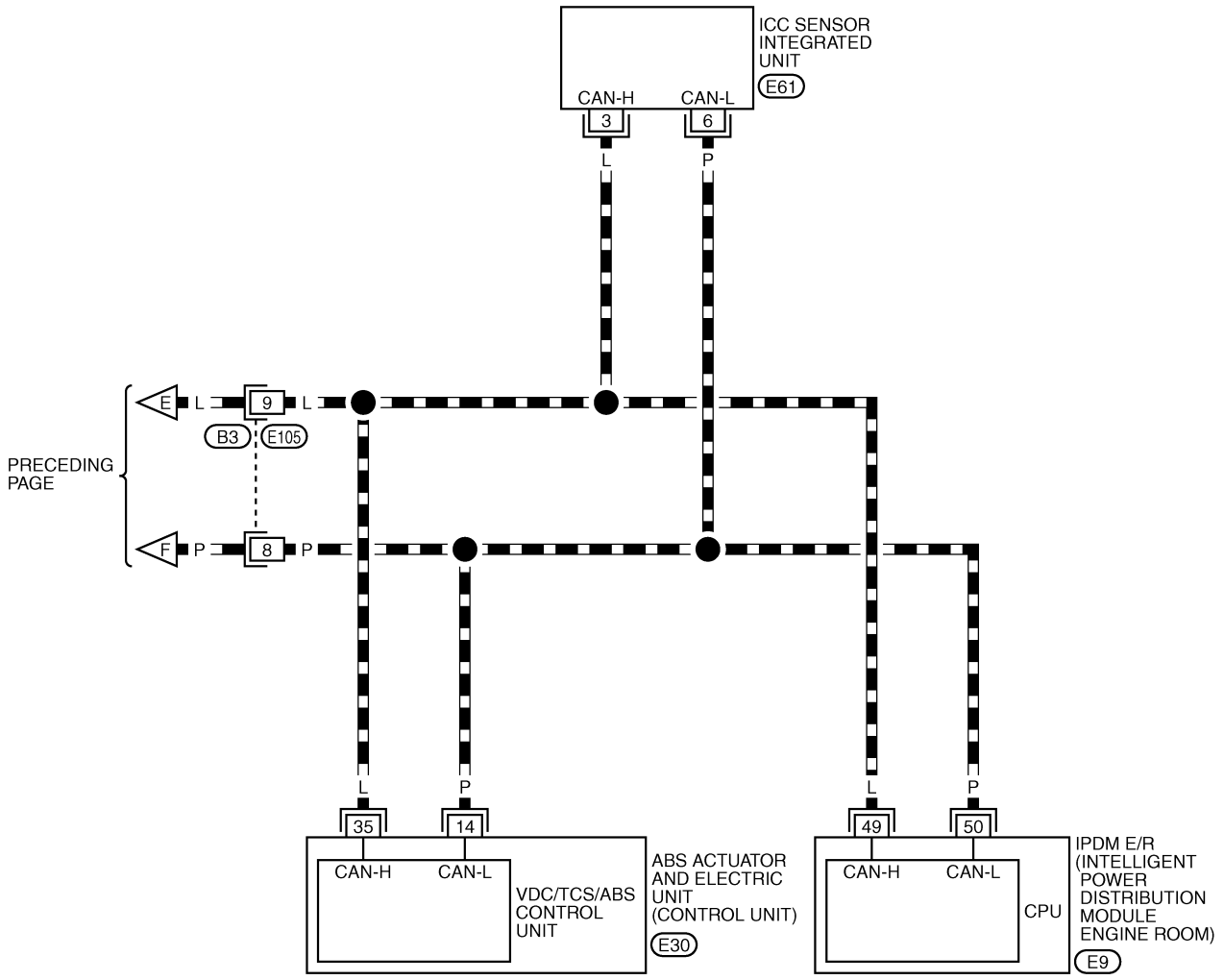


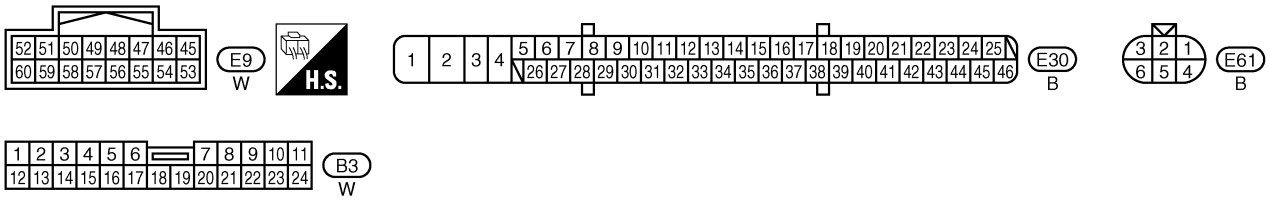
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT3316E

LAN-CAN-56

: DATA LINE





TKWT3317E

Check Sheet

NKS0047G

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 :

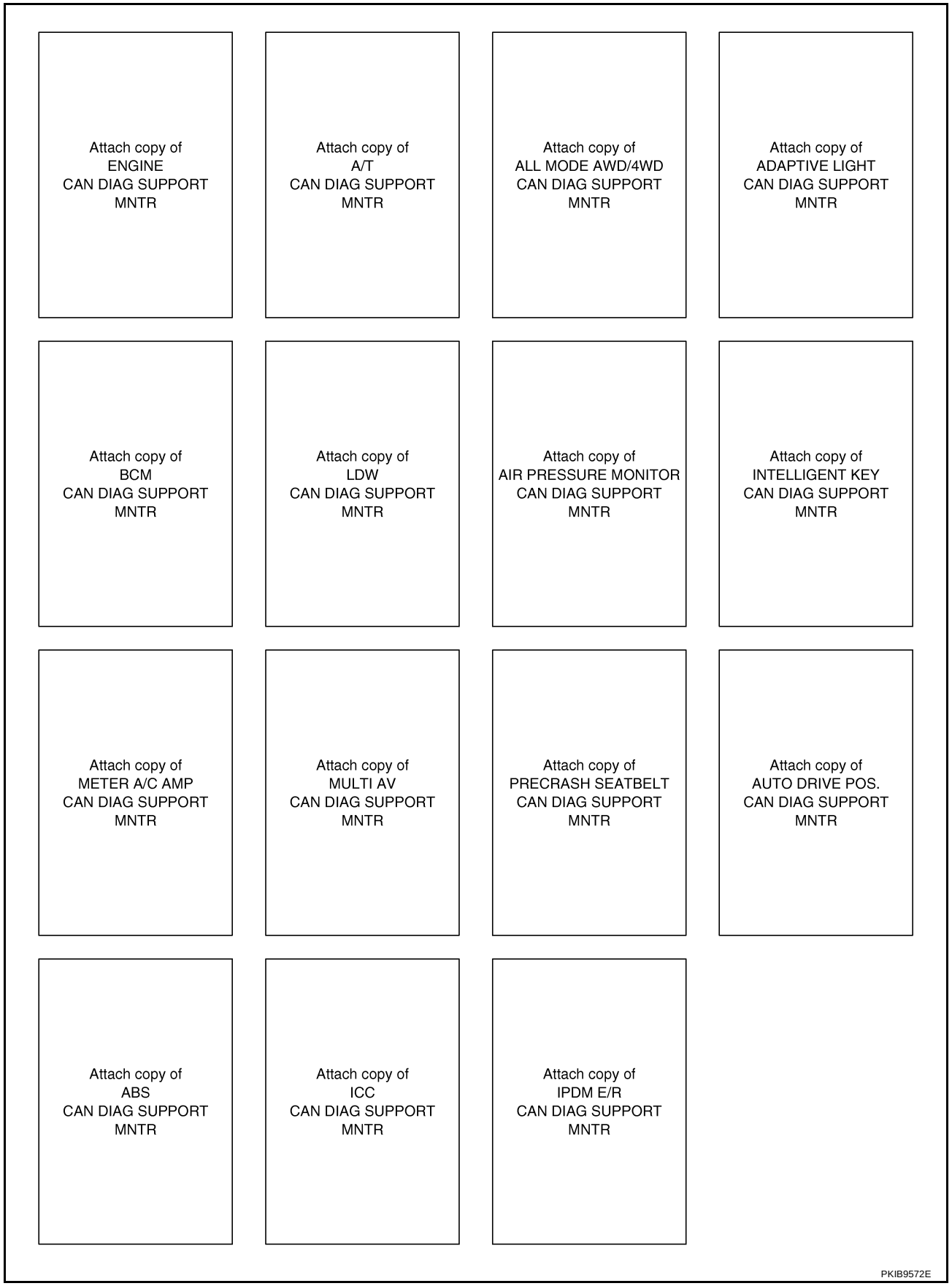
Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIB8562E

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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ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
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CAN DIAG SUPPORT
MNTR
Attach copy of
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BCM
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ABS
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MNTR
Attach copy of
ICC
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MNTR
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IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB9572E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

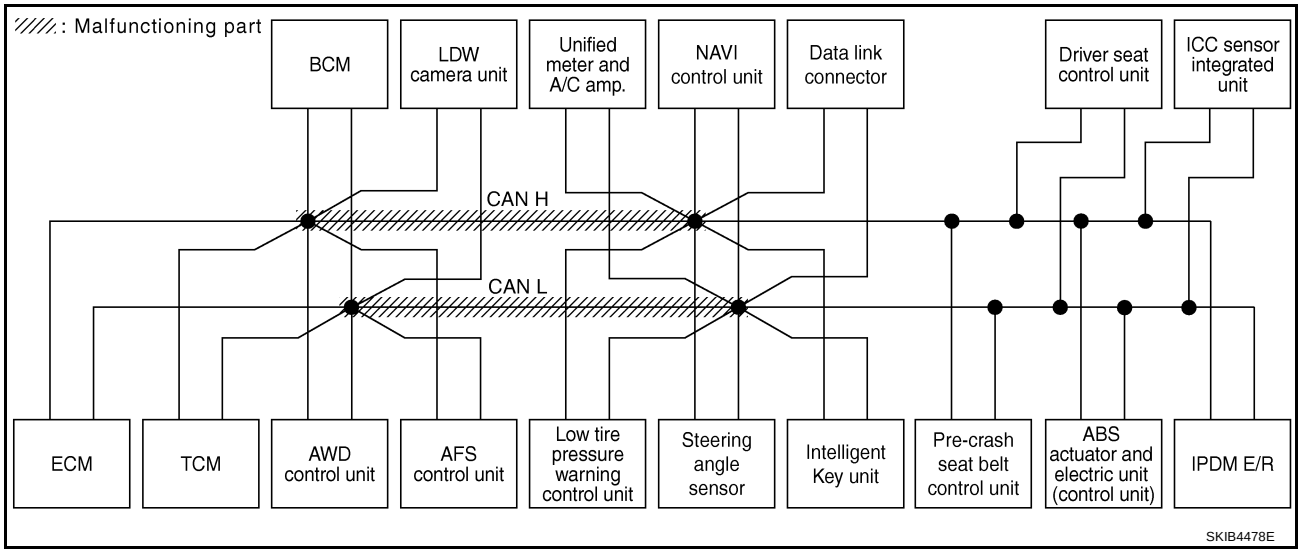
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to LAN-737, "Inspection Between TCM and Data Link Connector Circuit" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	✓	—	✓	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1010)
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)	—
LDW	✓ No indication	—	—	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	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	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	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	✓ No indication	NG	—	—	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
ABS	—	NG	UNKWN	✓	✓	✓	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	✓	✓	—	—	✓	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	✓	—	—	—	✓	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8563E

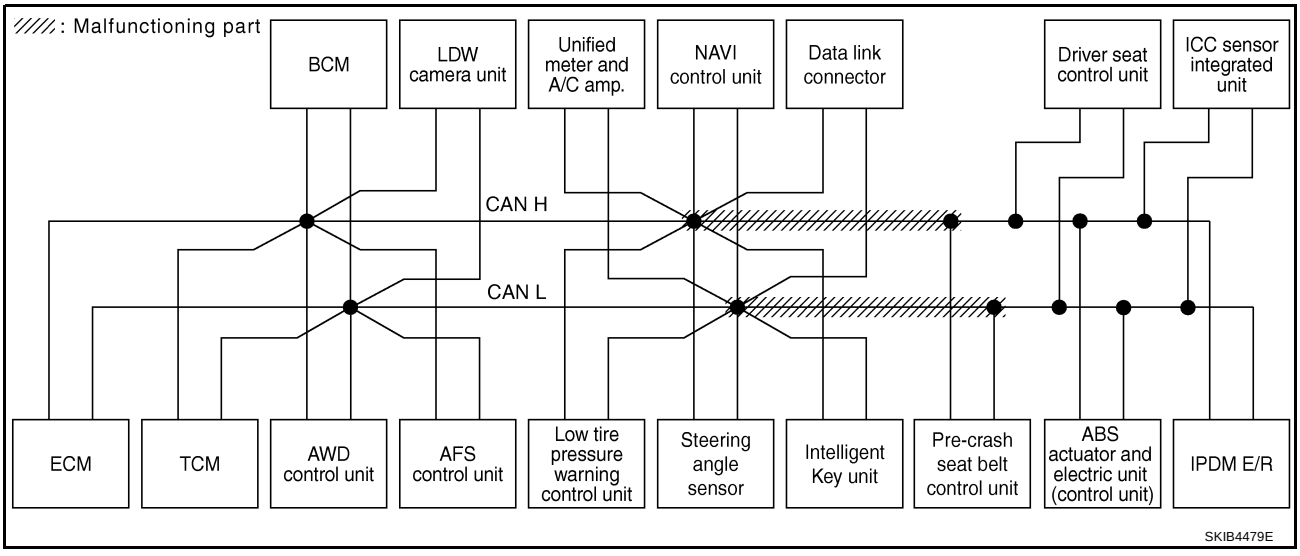


Case 2

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: 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	SELF-DIAG RESULTS	
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	—	—	—	—	—	—
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) ✓	—

PKIB8564E



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: 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	SELF-DIAG RESULTS	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1010)
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	—	—	—	—	—	—
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)	—

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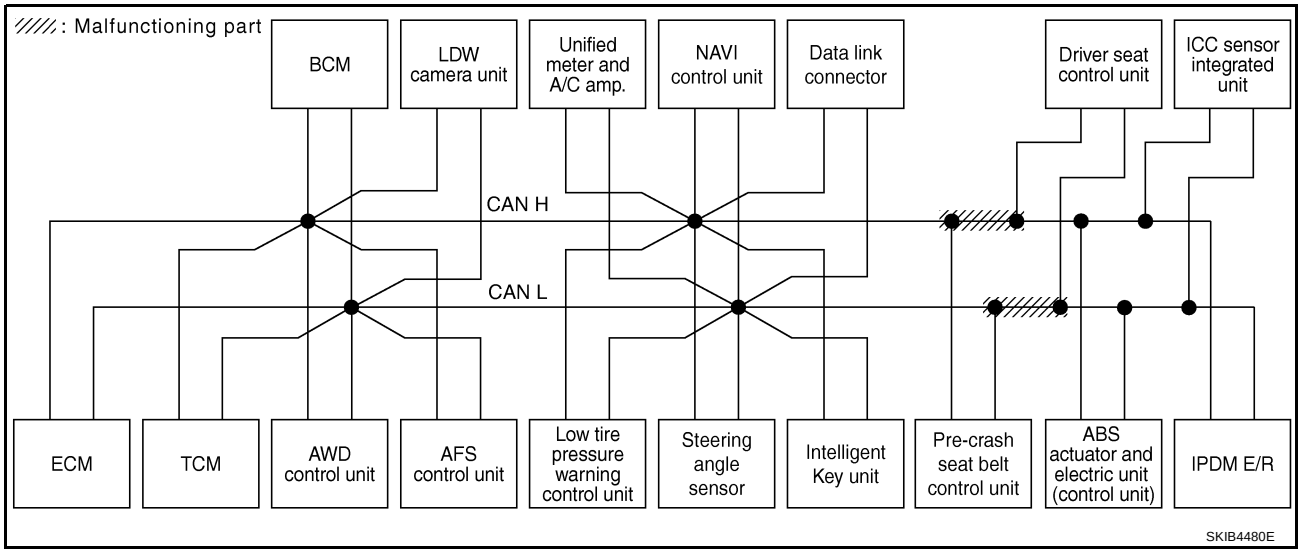

Case 4

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: 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	SELF-DIAG RESULTS: CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
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)	—

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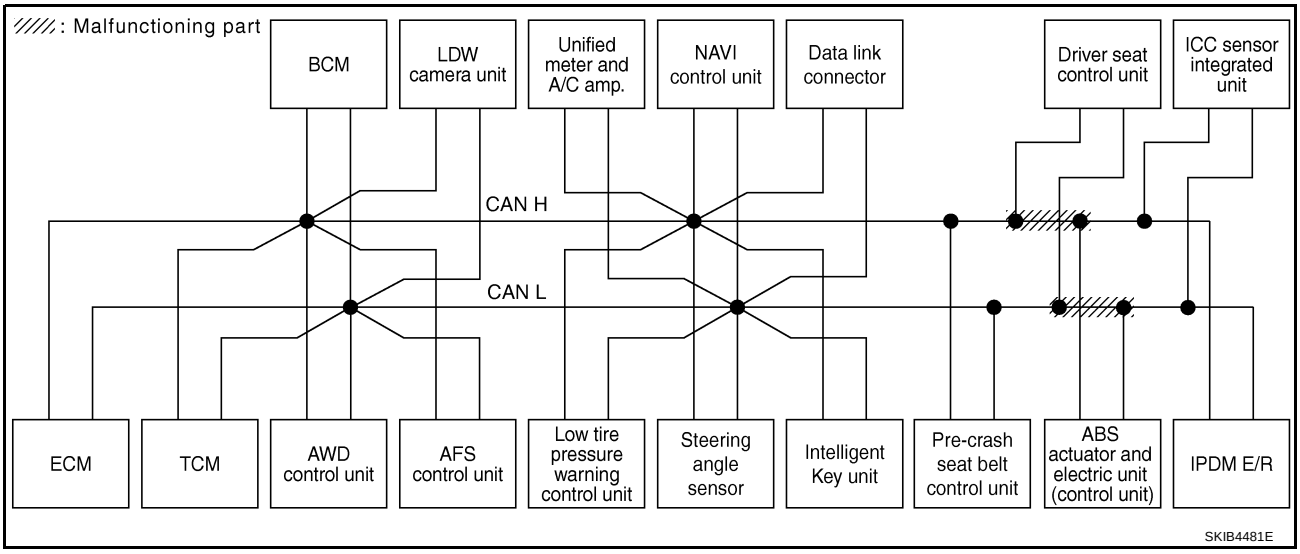

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Case 5

Check harness between ABS actuator and electric unit (control unit) and ICC sensor integrated unit. Refer to LAN-740, "Inspection Between ABS Actuator and Electric Unit and ICC Sensor Integrated Unit Circuit" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS: CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1010)
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	—	—	✓	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	✓	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—	✓	—
AIR PRESSURE MONITOR	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	—	✓	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	✓	—
METER A/C AMP	No indication	—	UNKWN	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	—	—	—	—	—	—	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	—	✓	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	✓	—

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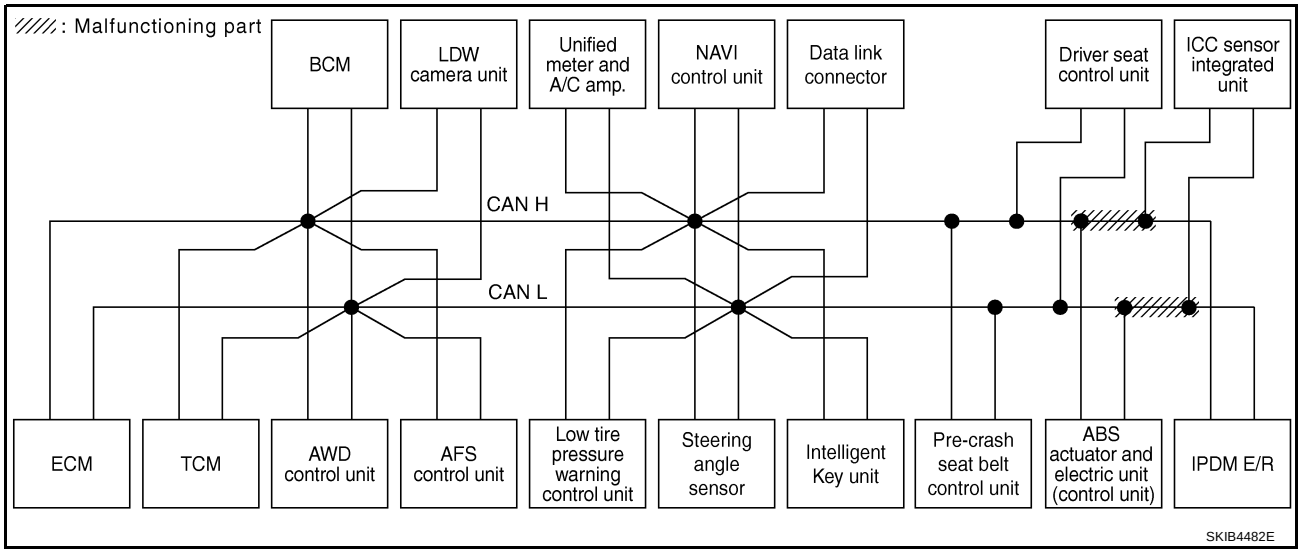

SKIB4482E

Case 6

Check ECM circuit. Refer to LAN-741, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

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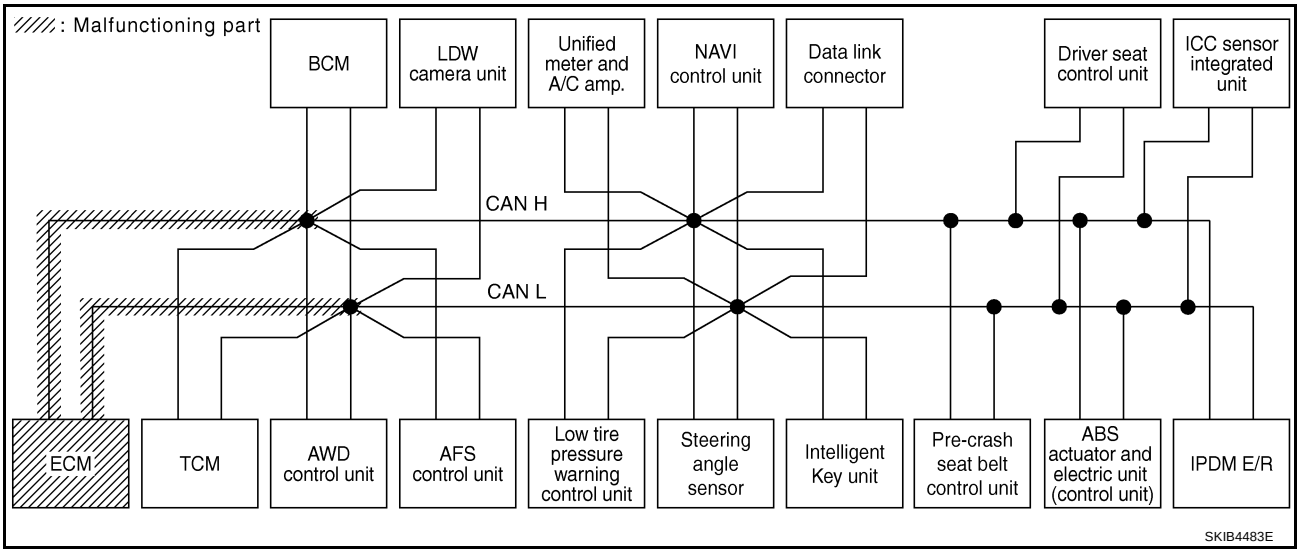

Case 7

Check TCM circuit. Refer to LAN-741, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

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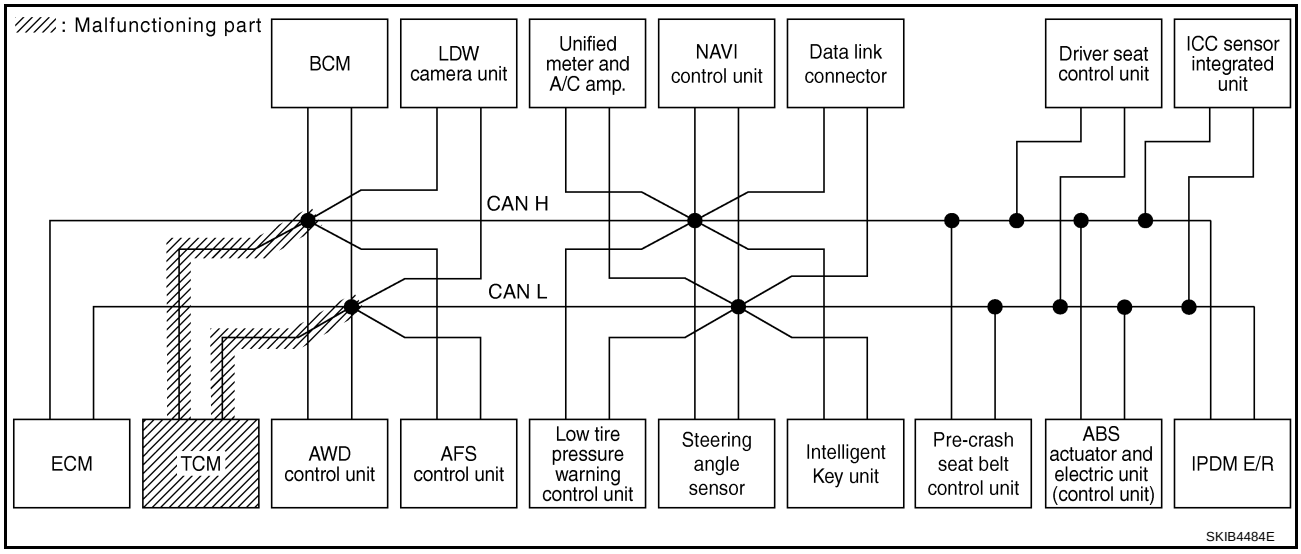

SKIB4484E

Case 8

Check AWD control unit circuit. Refer to LAN-742, "AWD Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

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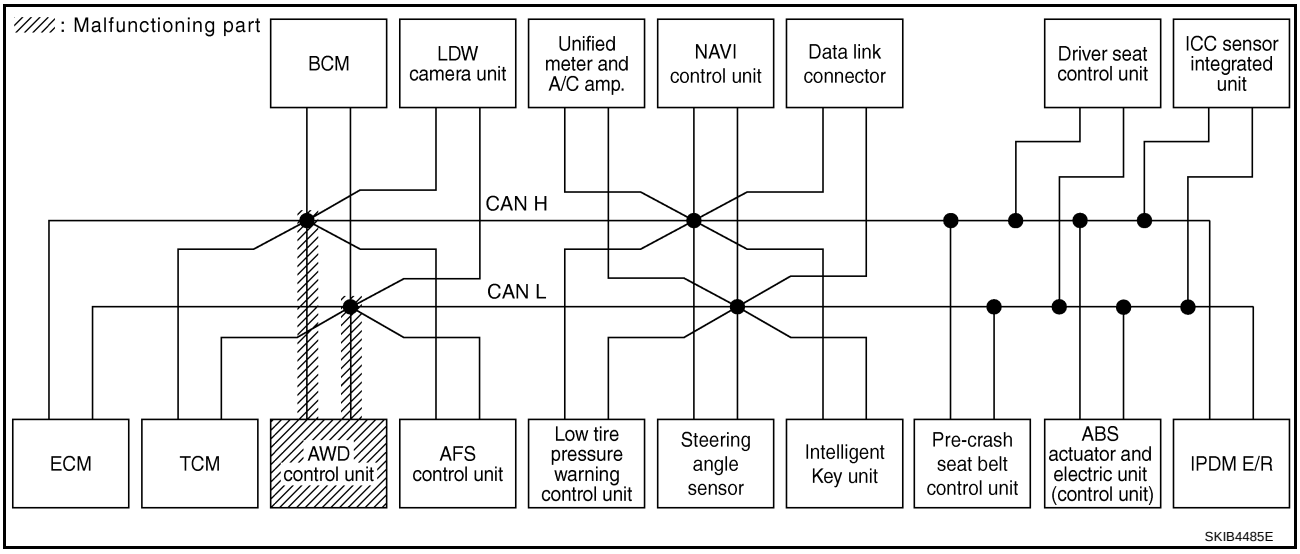

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Case 9

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														
				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)	—

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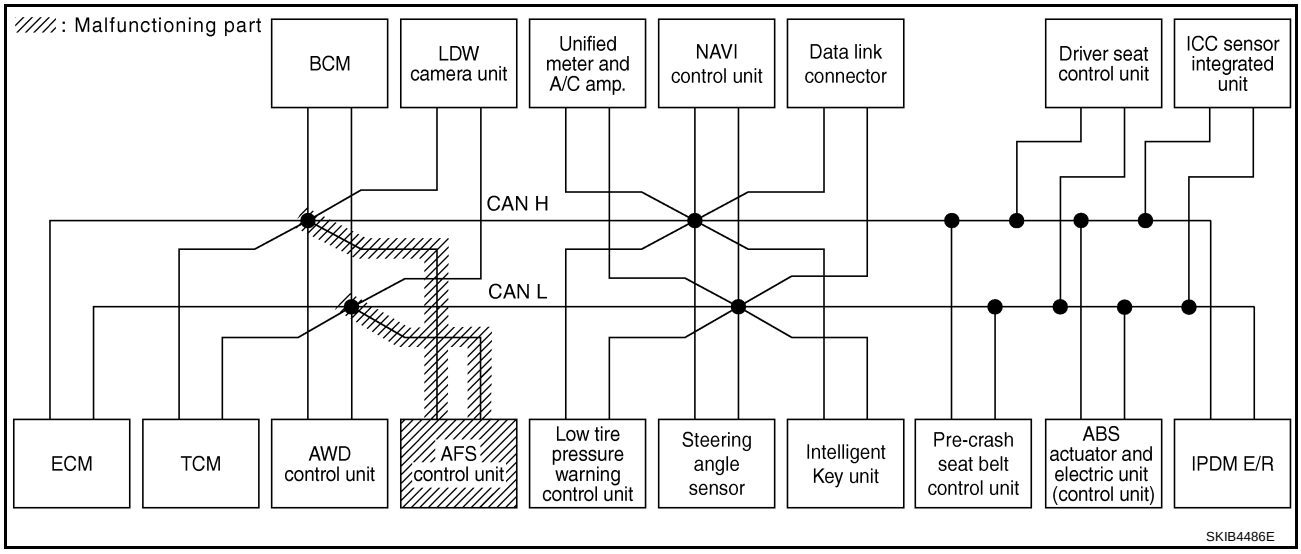

Case 10

Check BCM circuit. Refer to LAN-743, "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1010)
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	—	—	—	—	—	—
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)	—

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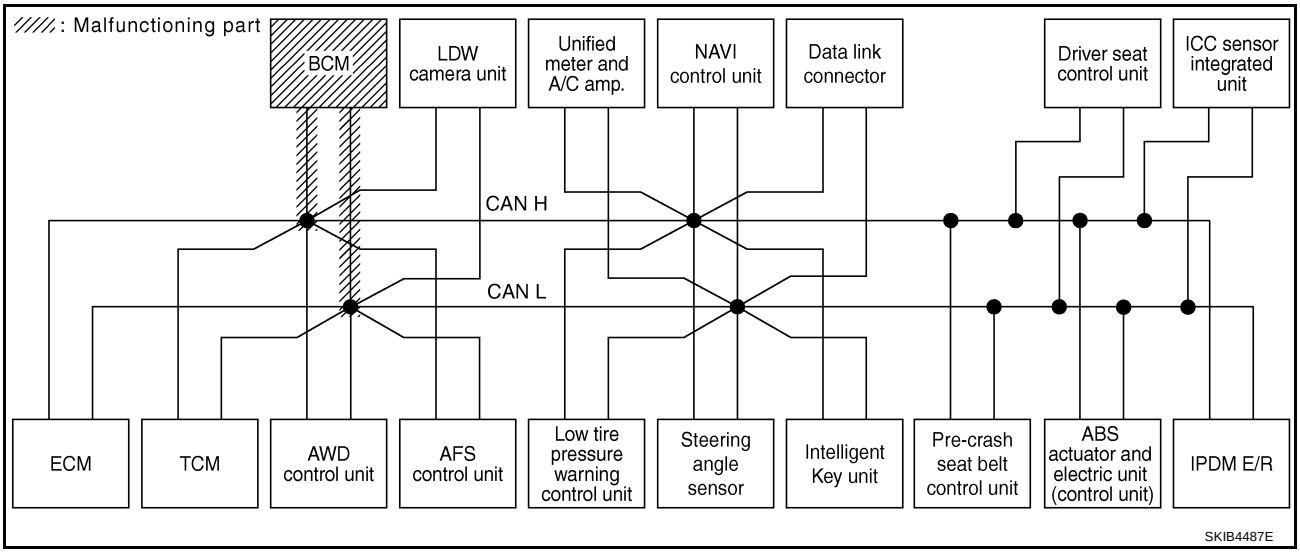


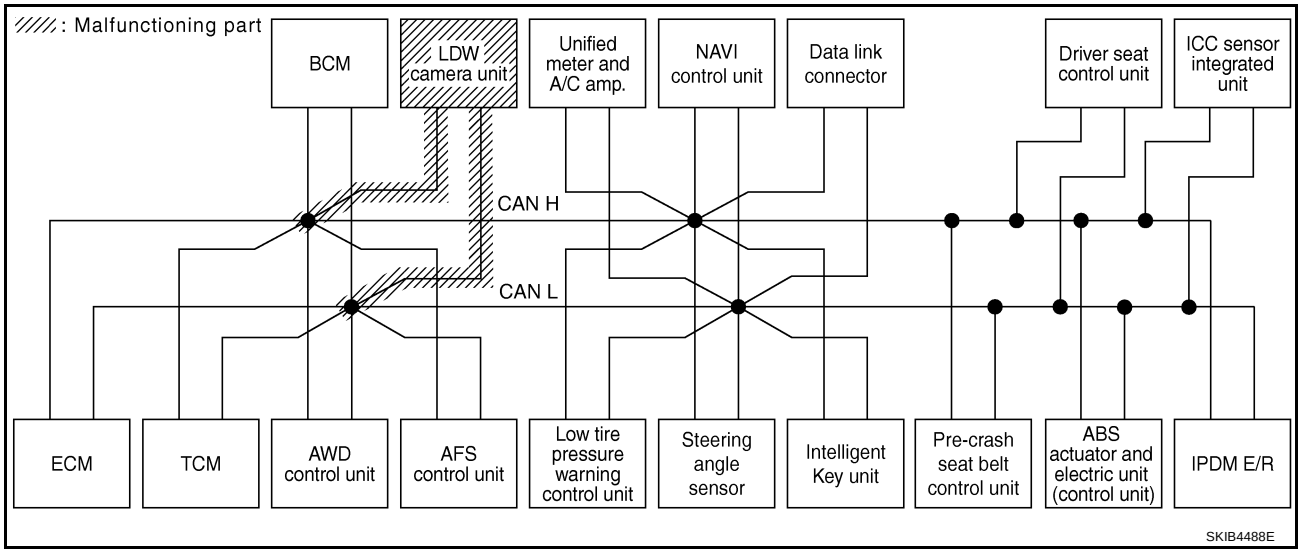
SKIB4487E

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	—	—	—	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)	—

PKIB8573E



SKIB4488E

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: 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	SELF-DIAG RESULTS	
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)	—

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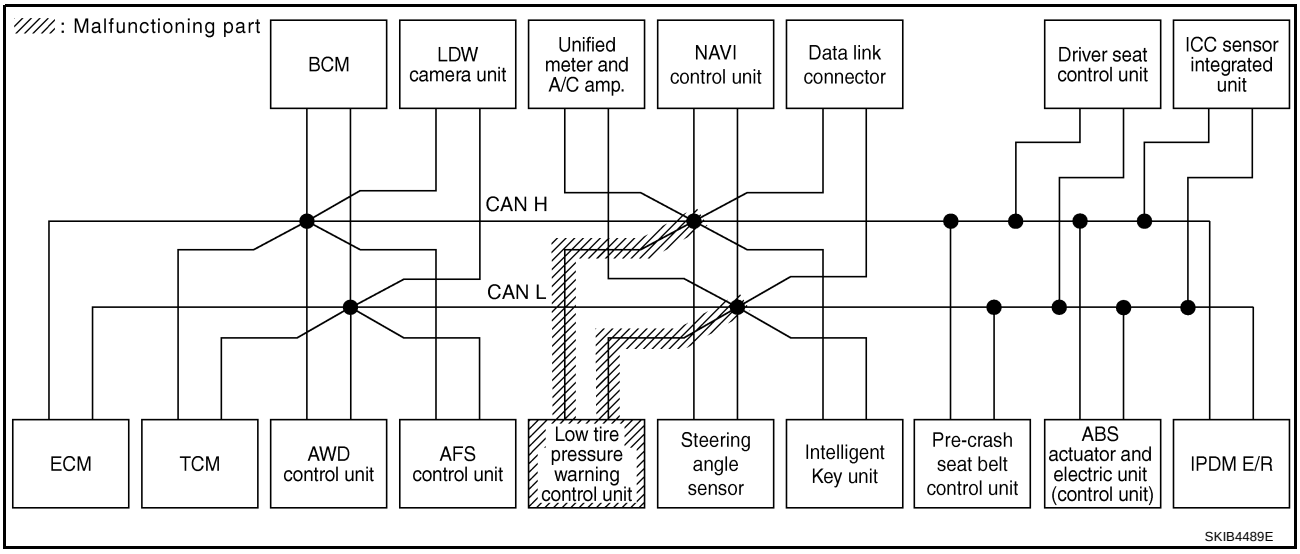

SKIB4489E

Case 13

Check steering angle sensor circuit. Refer to LAN-744, "Steering Angle Sensor Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

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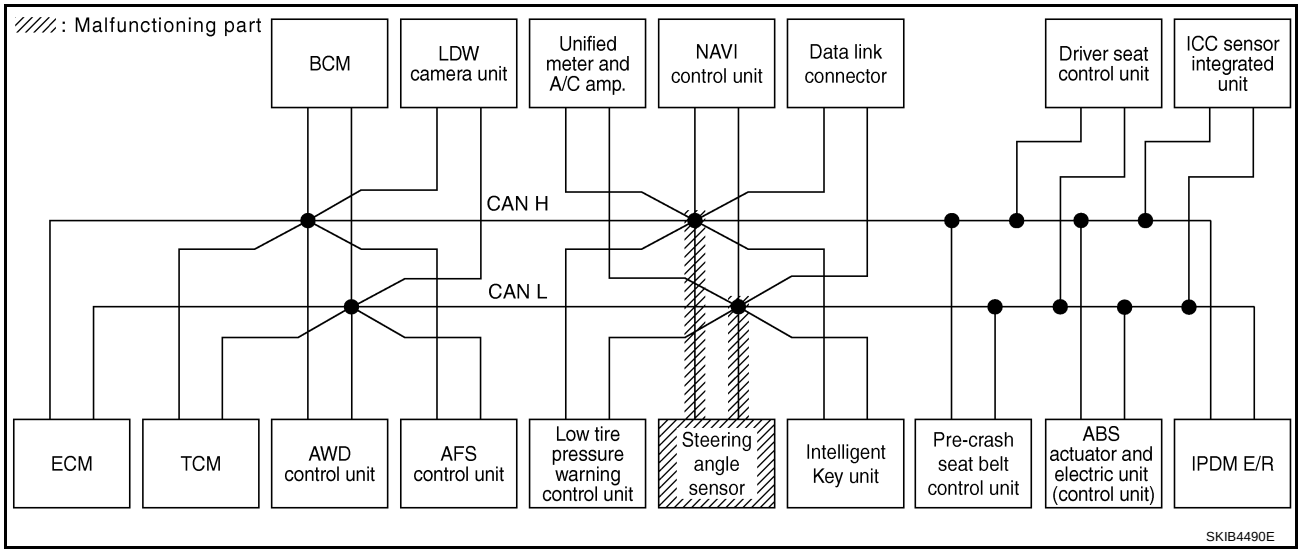

SKIB4490E

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														
				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)	—

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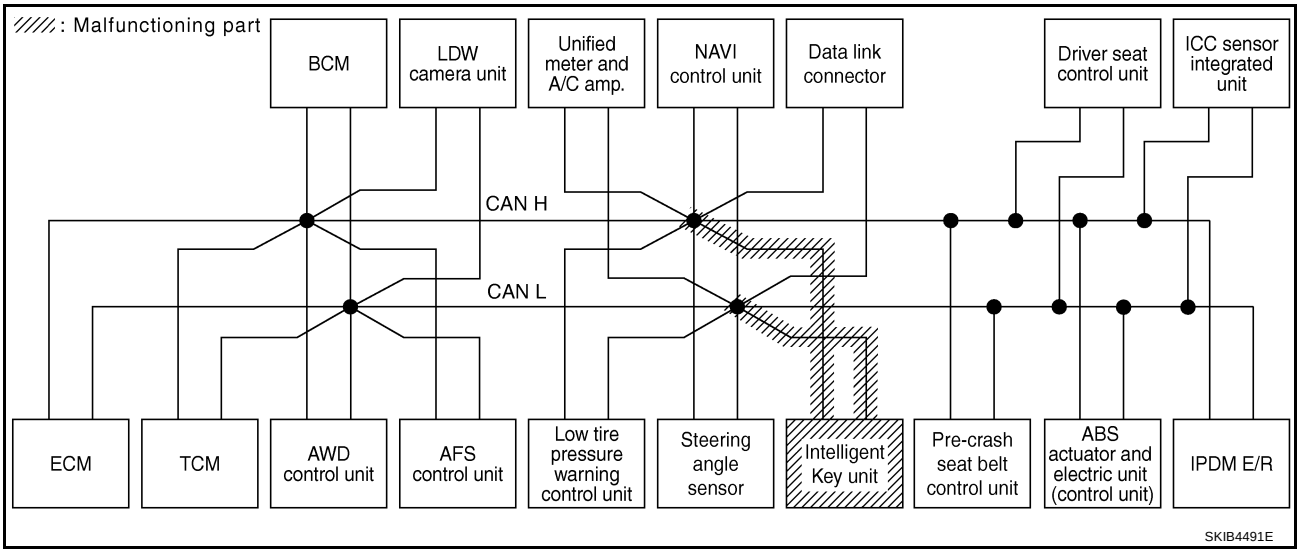


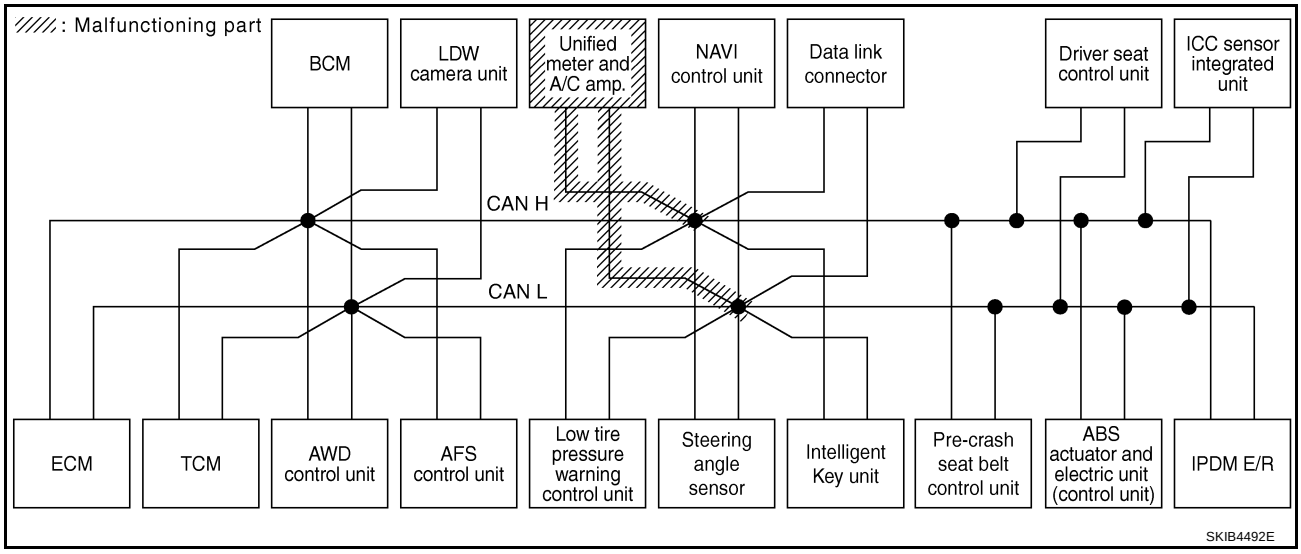
SKIB4491E

Case 15

Check unified meter and A/C amp. circuit. Refer to LAN-745, "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	ICC/ e4WD	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	✓	—	UNKWN	UNKWN	UNKWN	✓	✓
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	✓	—	UNKWN	UNKWN	—	✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	✓	—	UNKWN	—	—	✓	—
ADAPTIVE LIGHT	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	✓	—	—	—	UNKWN	✓	—
BCM	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	✓	UNKWN	—	—	UNKWN	✓	—
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	✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	✓	—
MULTI AV	No indication	—	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	—	—	—	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	✓	—	UNKWN	—	—	✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB8577E

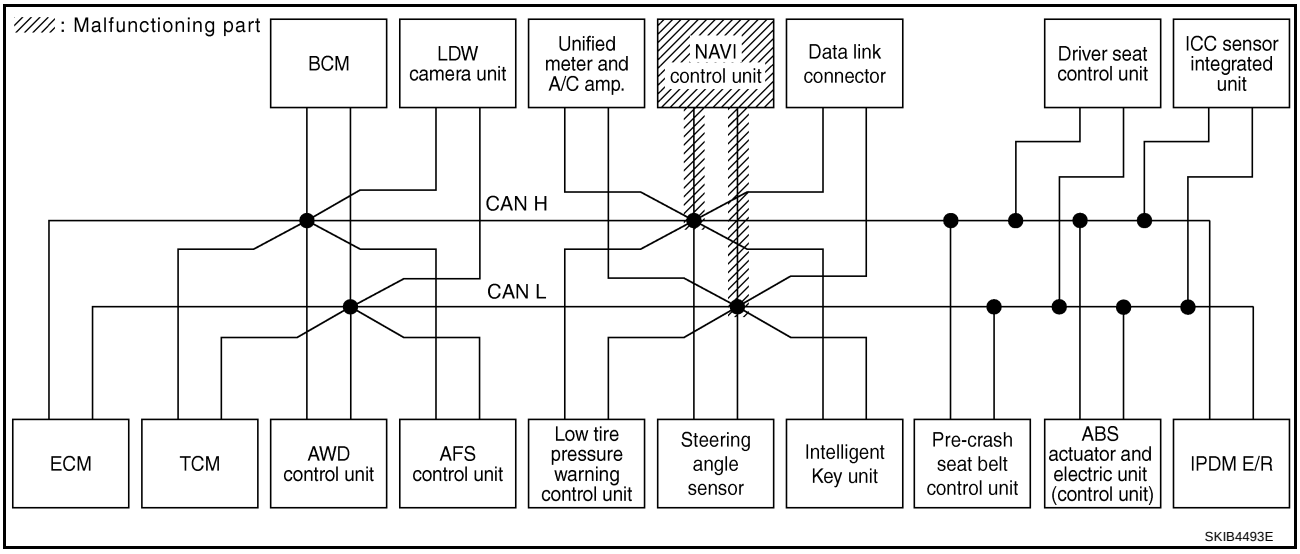


Case 16

Check NAVI control unit circuit. Refer to LAN-746, "NAVI Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
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)	—

PKIB8578E



SKIB4493E

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	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)	—

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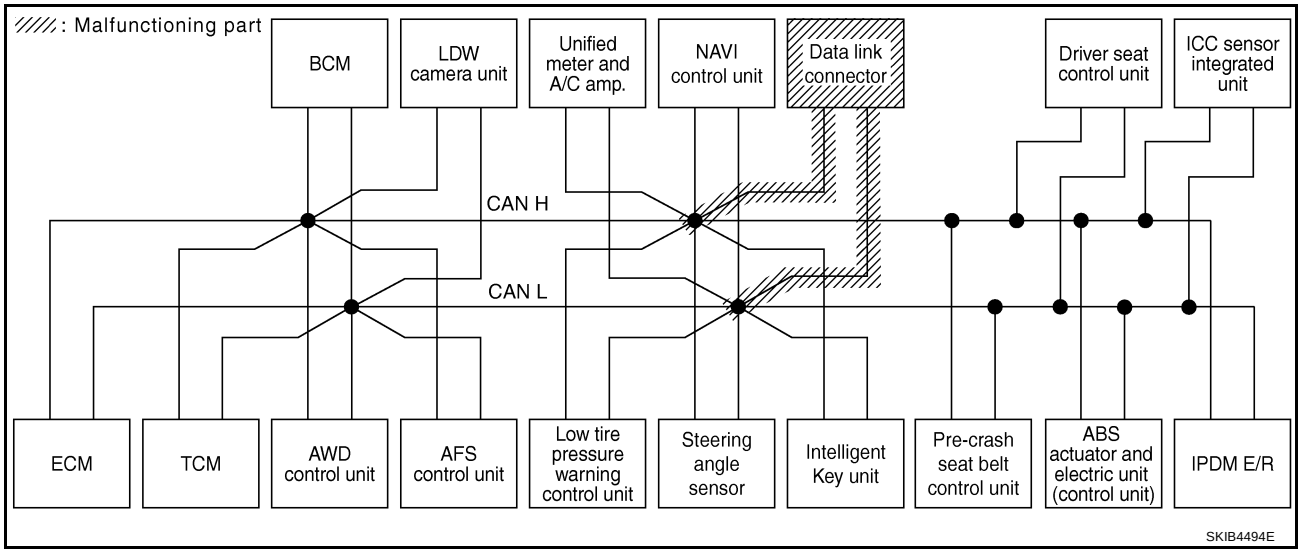

Case 18

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: 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	SELF-DIAG RESULTS	
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)	—

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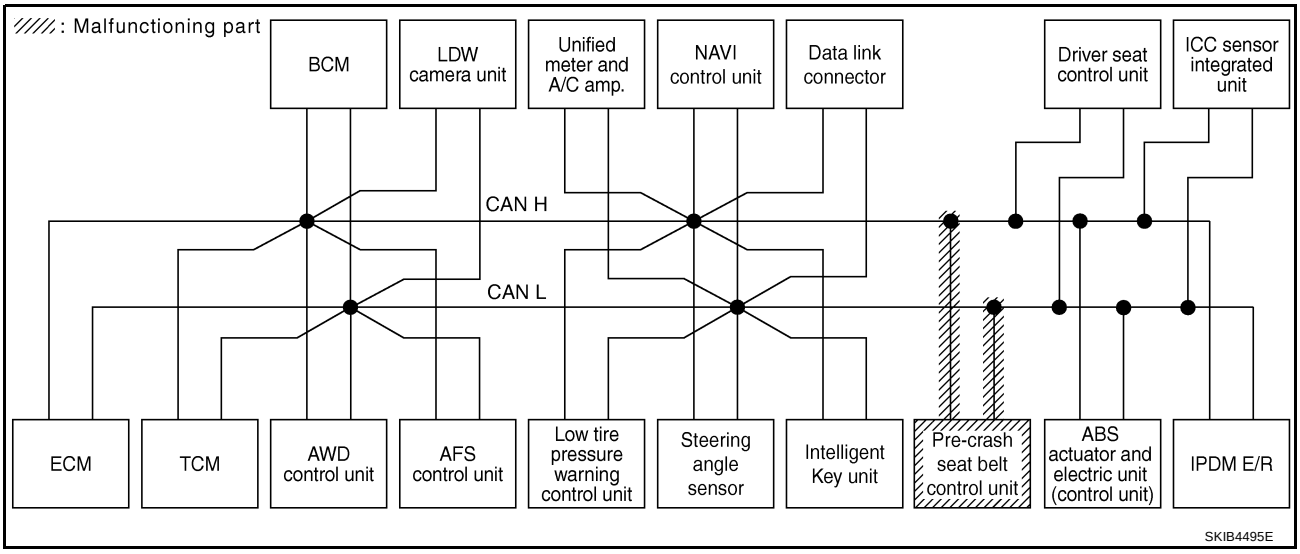

SKIB4495E

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	—	—	—	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)	—

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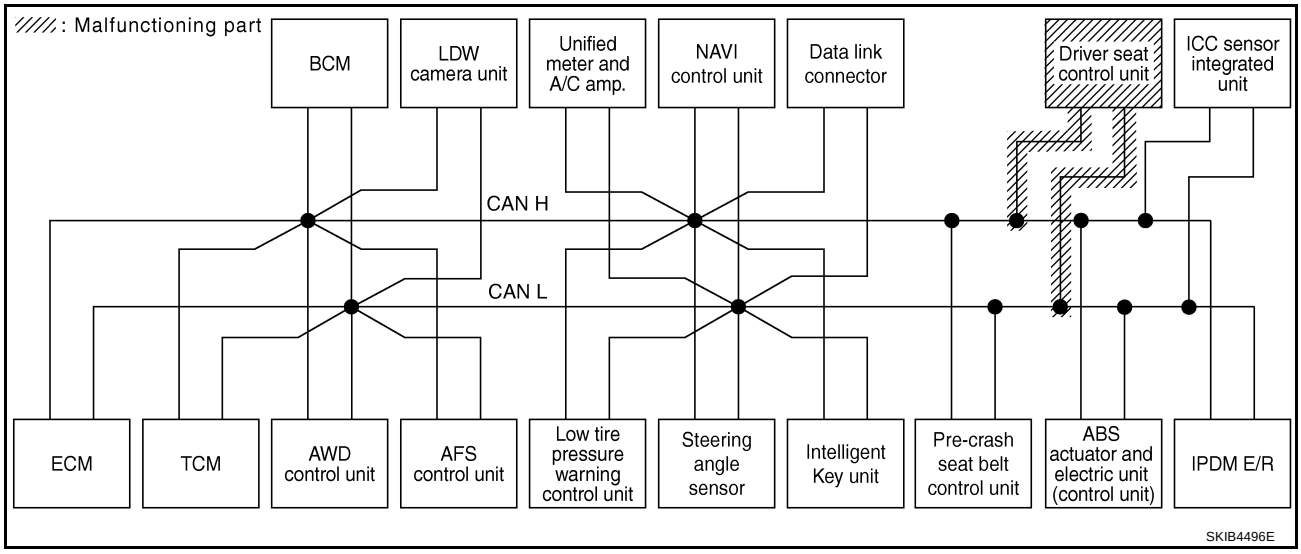

SKIB4496E

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: 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	SELF-DIAG RESULTS	
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)	—

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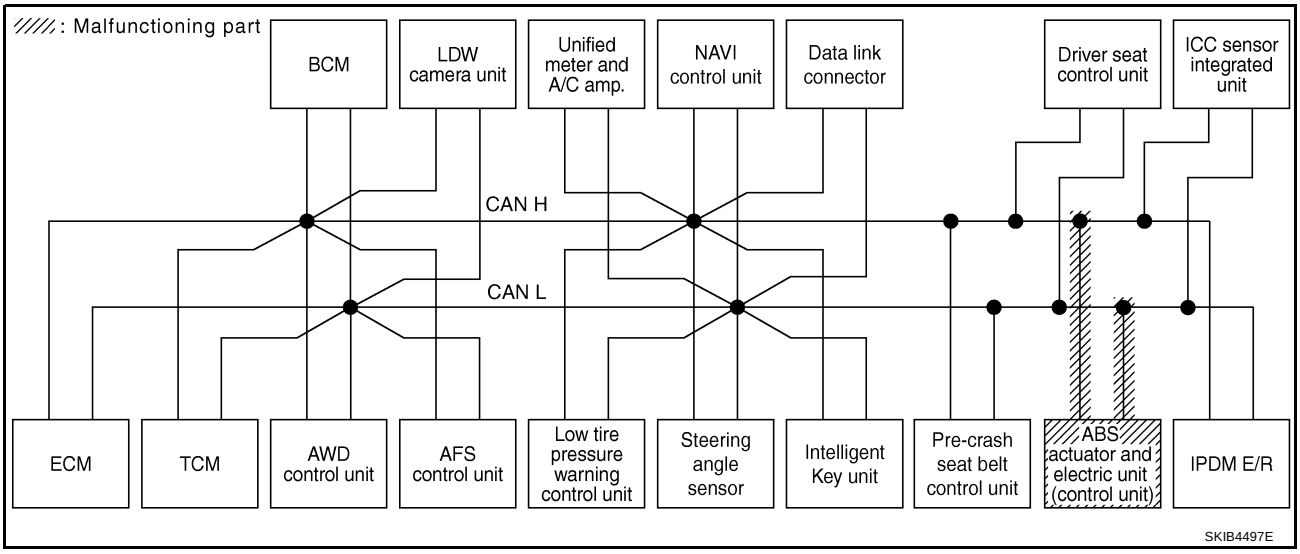

Case 21

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														
				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 (U1010)
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)	—

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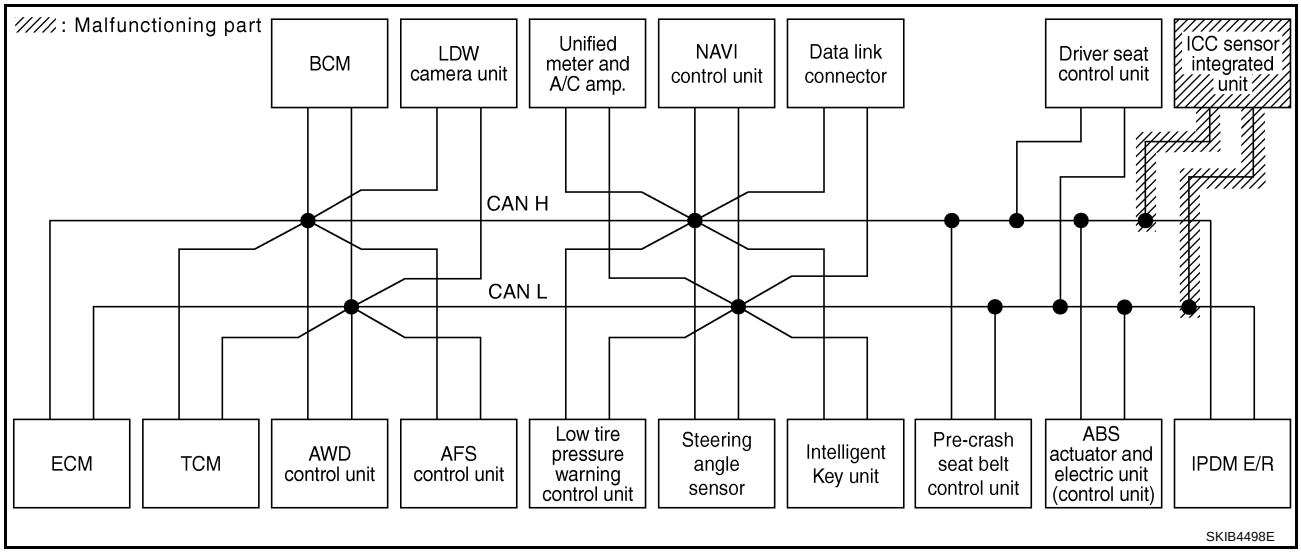

Case 23

Check IPDM E/R circuit. Refer to LAN-749, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: 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	SELF-DIAG RESULTS	
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1010) ✓
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) ✓	—

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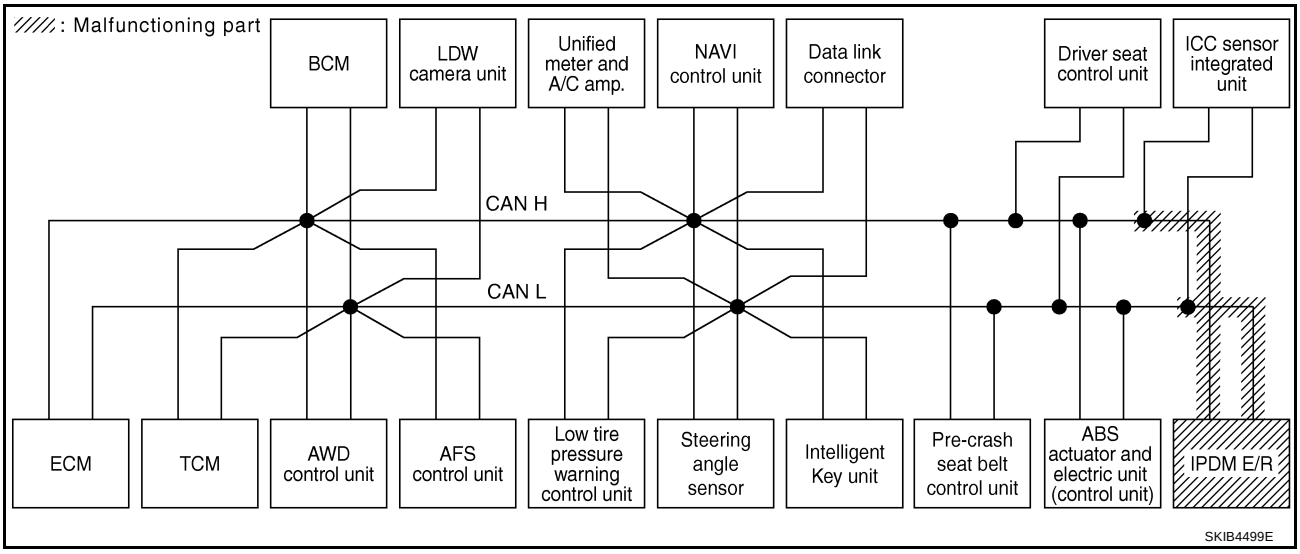


SKIB4499E

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														
				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)	—

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														
				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)	—

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: 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	SELF-DIAG RESULTS: CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—	UNKWN	UNKWN	—	✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	—	✓	—
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	—	✓	—
ICC	No indication	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	✓	—
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

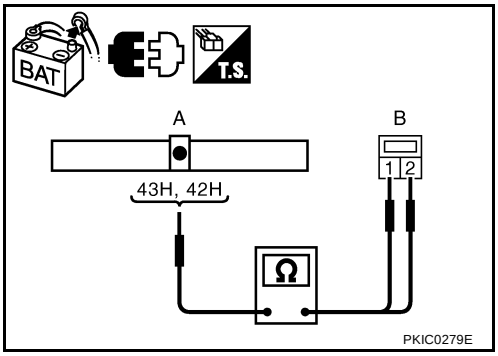
OK or NG

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



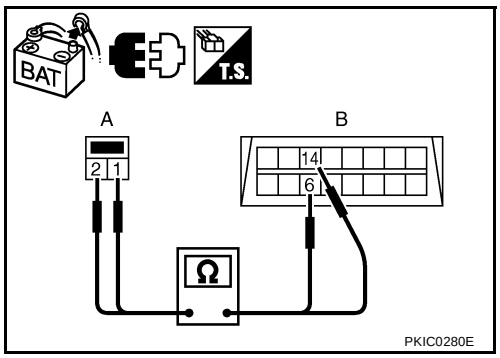
PKIC0279E

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

NKS0047I

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

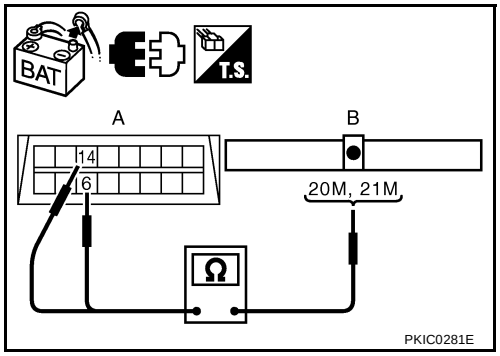
OK or NG

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

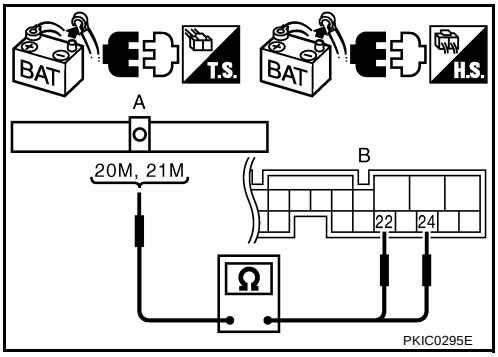
OK >> GO TO 3.

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.

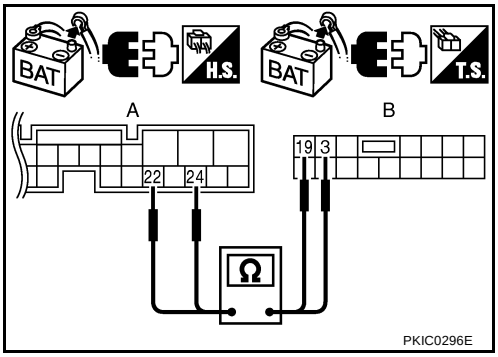
Inspection Between Pre-Crash Seat Belt Control Unit and Driver Seat Control Unit Circuit

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

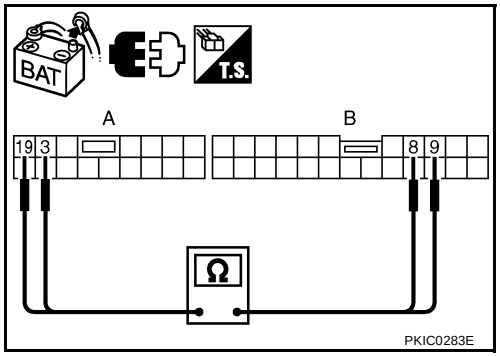
OK >> GO TO 2.

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



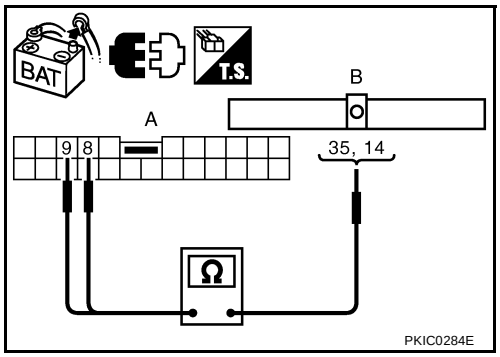
OK or NG

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

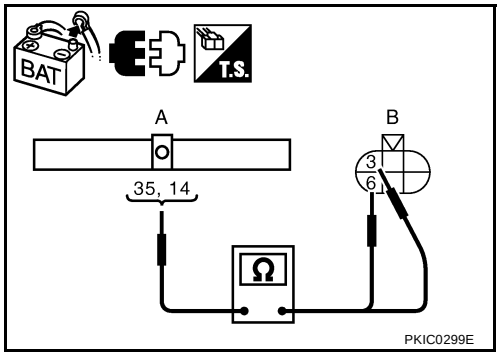
1. CHECK CONNECTOR

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

NKS0047M

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.

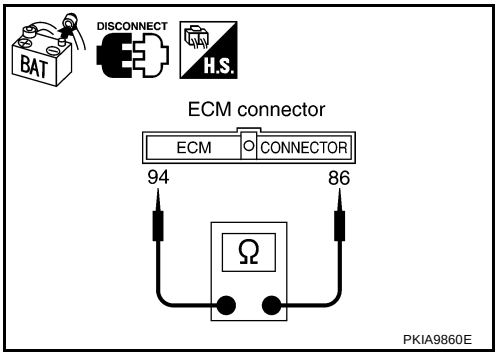
2. CHECK HARNESS FOR OPEN CIRCUIT

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

NKS0047N

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.

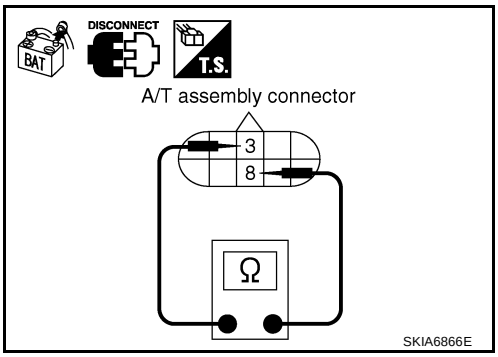
2. CHECK HARNESS FOR OPEN CIRCUIT

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

NKS0047O

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

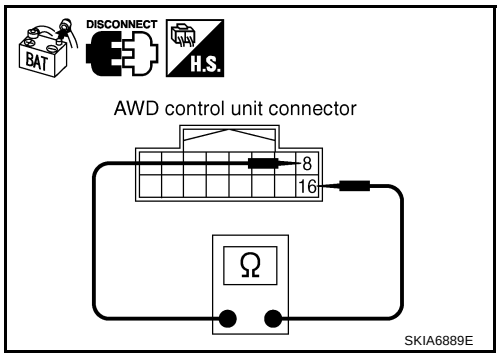
OK or NG

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

NKS0047P

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

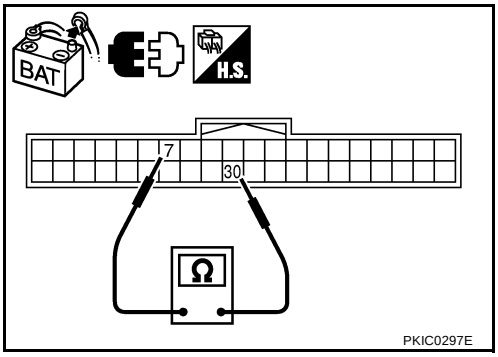
OK or NG

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

NKS0047Q

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).

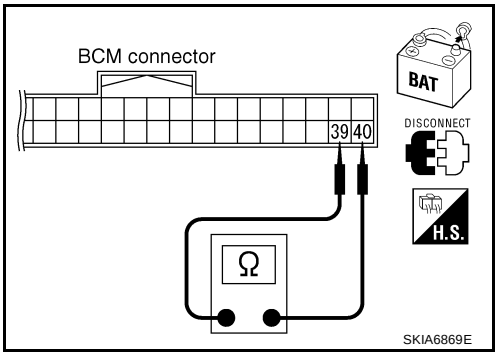
OK or NG

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.

LDW Camera Unit Circuit Inspection

NKS0047R

1. CHECK CONNECTOR

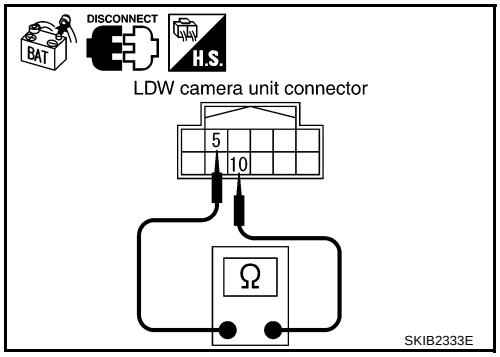
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of LDW camera unit for damage, bend and loose connection (unit side and harness side).

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

NKS0047S

1. CHECK CONNECTOR

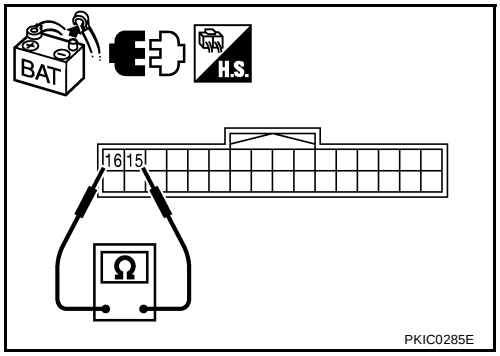
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of low tire pressure warning control unit for damage, bend and loose connection (control unit side and harness side).

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.)
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).

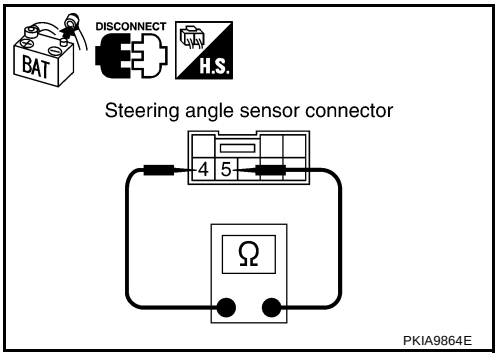
OK or NG

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.

Intelligent Key Unit Circuit Inspection

NKS0047U

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).

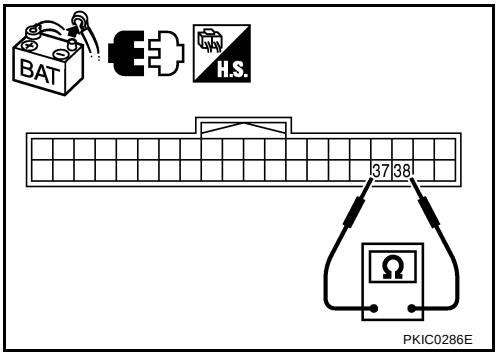
OK or NG

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

NKS0047V

1. CHECK CONNECTOR

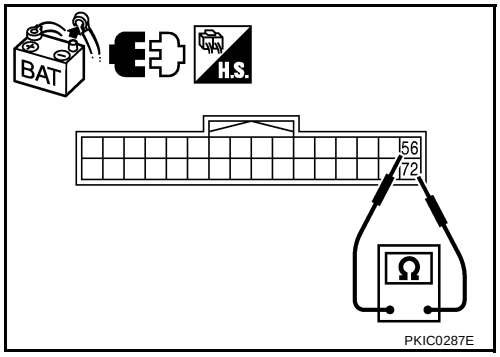
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection (meter side and harness side).

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

NKS0047W

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).

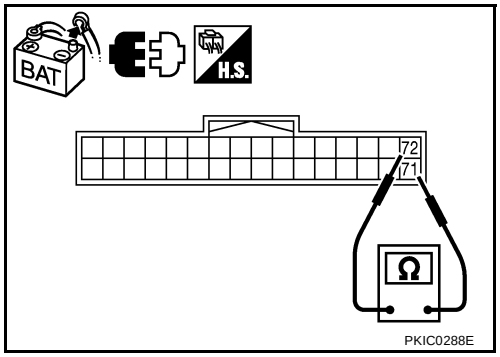
– NAVI control unit connector
– Harness connector M216
– Harness connector M53

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

NKS0047X

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).

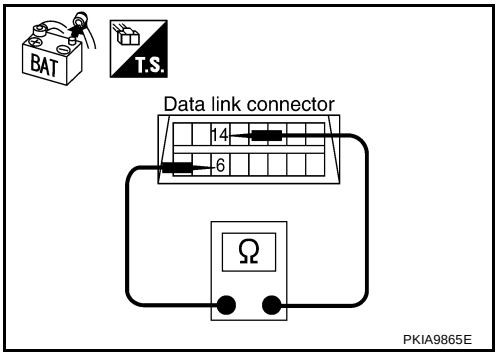
OK or NG

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

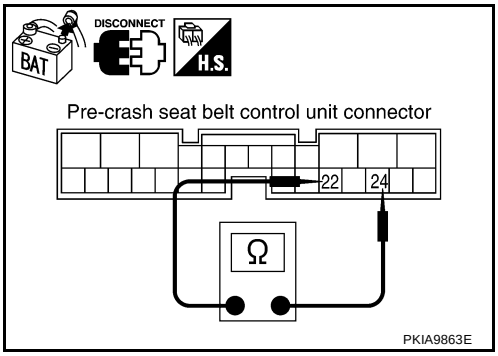
OK >> GO TO 2.

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.

Driver Seat Control Unit Circuit Inspection

NKS0047Z

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

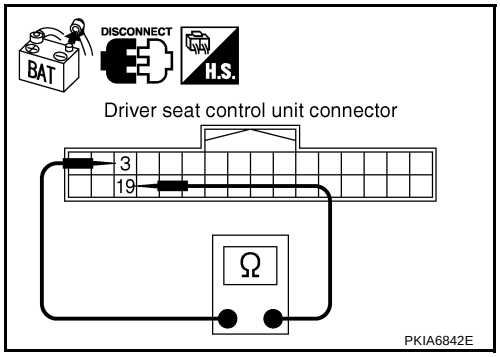
OK >> GO TO 2.

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).

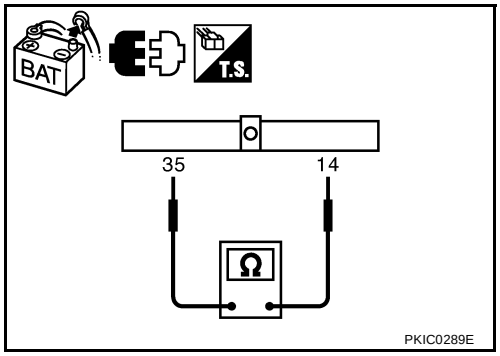
OK or NG

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).

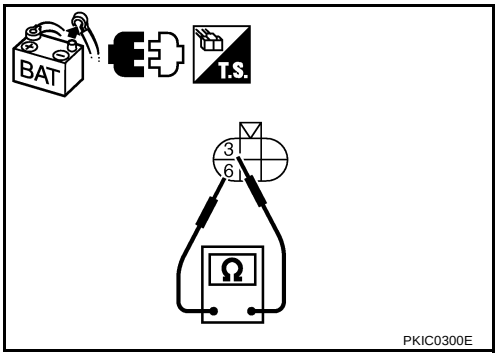
OK or NG

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.

IPDM E/R Circuit Inspection

NKS00482

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).

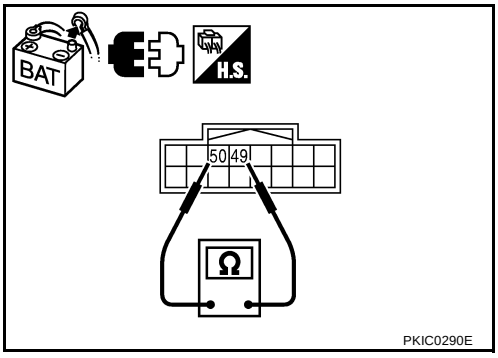
OK or NG

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.

CAN Communication Circuit Inspection

NKS00483

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
- 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

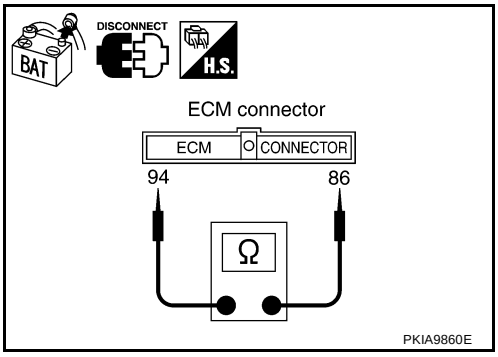
OK >> GO TO 2.
NG >> Repair terminal or connector.

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

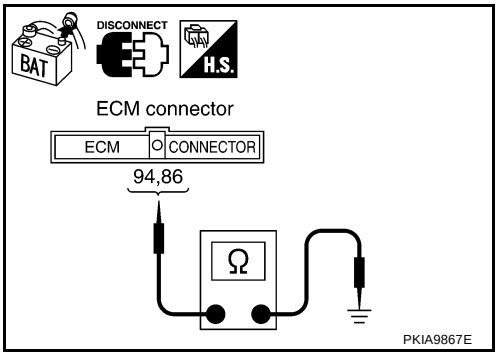
OK >> GO TO 3.

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		No
	86		No



OK or NG

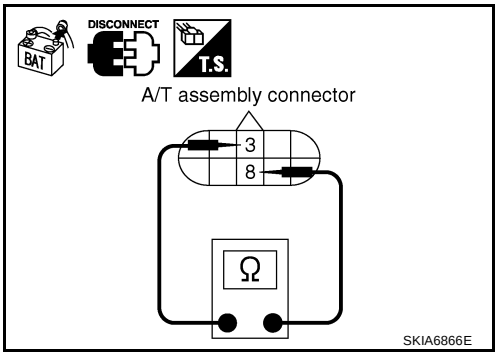
OK >> GO TO 4.

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

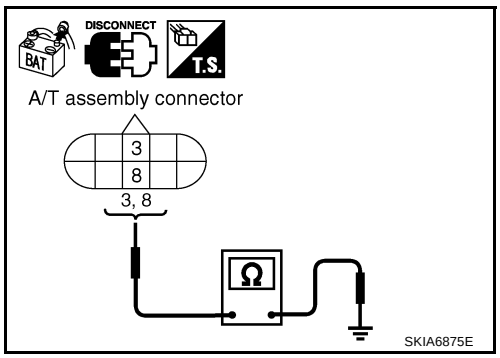
OK >> GO TO 5.

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	Ground	Continuity
F42	3		No
	8		No



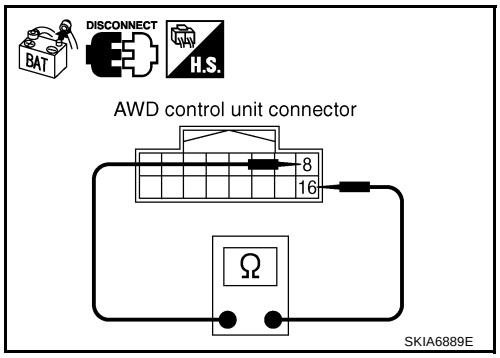
OK or NG

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



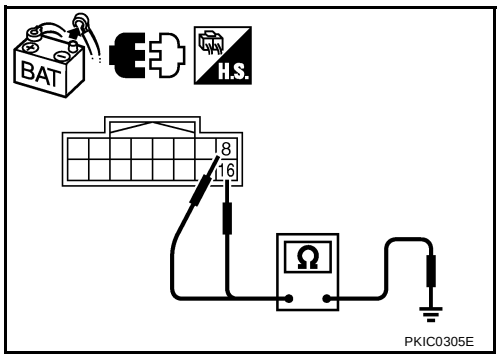
OK or NG

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



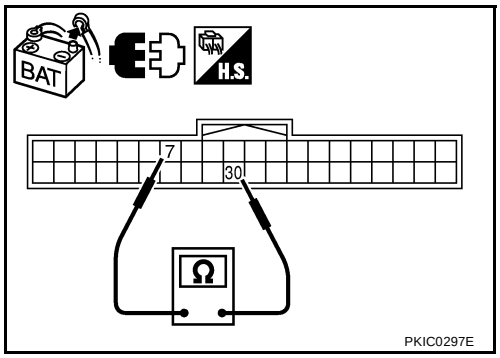
OK or NG

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



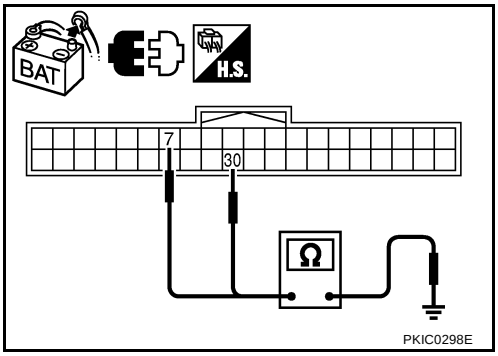
OK or NG

OK >> GO TO 9.
NG >> Repair harness between AFS control unit and harness connector F102.

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

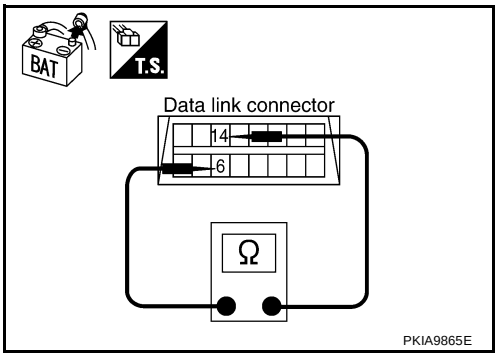
OK >> GO TO 10.
NG >> Replace harness between AFS control unit and harness connector F102.

10. CHECK HARNESS FOR SHORT CIRCUIT

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



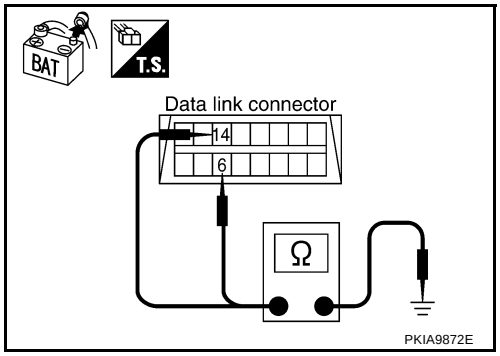
OK or NG

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		No
	14		No



OK or NG

OK >> GO TO 12.

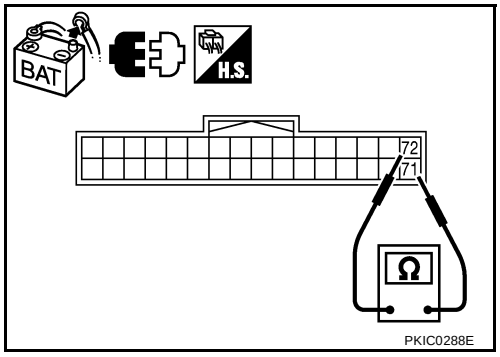
NG >> Check the following harnesses. If any harness is damaged, repair the harness.

- 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		Continuity
M210	71	72	No



OK or NG

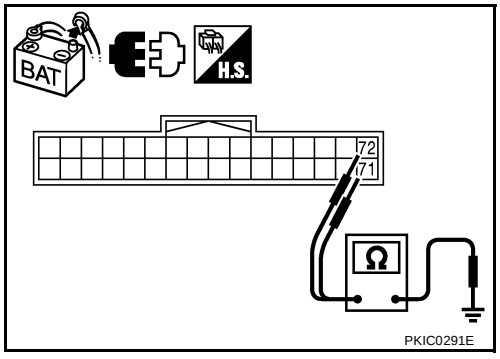
OK >> GO TO 13.

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		No
	72		No



OK or NG

OK >> GO TO 14.

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

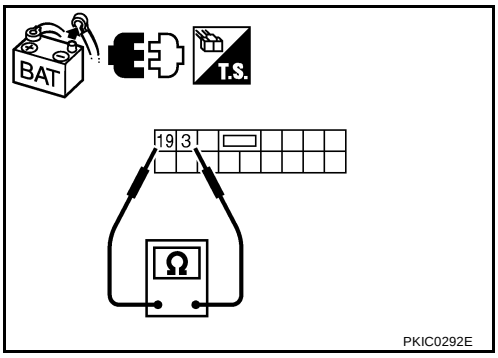
14. CHECK HARNESS FOR SHORT CIRCUIT

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.



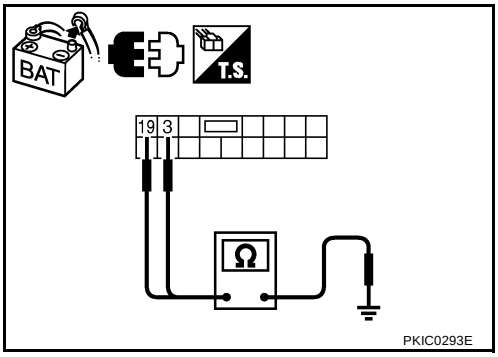
15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector terminals and ground.

Harness connector	Terminal	Ground	Continuity
B15	3		No
	19		No

OK or NG

OK >> GO TO 16.
NG >> Replace harness.



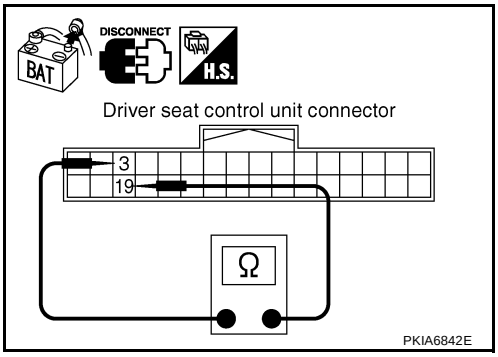
16. CHECK HARNESS FOR SHORT CIRCUIT

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

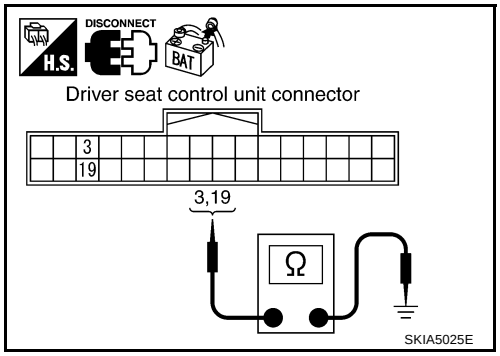
OK >> GO TO 17.
NG >> Repair harness between driver seat control unit and harness connector B202.



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



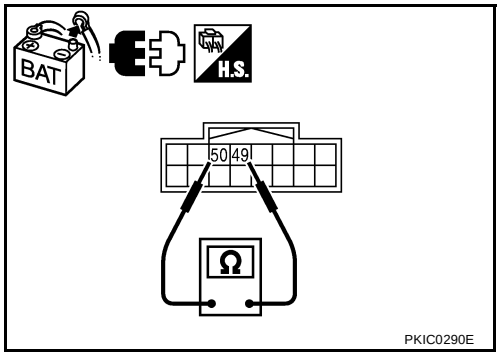
OK or NG

OK >> GO TO 18.
NG >> Repair harness between driver seat control unit and harness connector B202.

18. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect 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



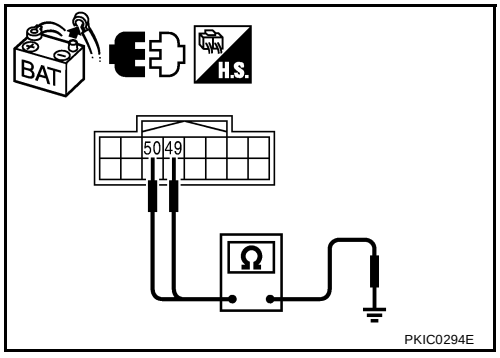
OK or NG

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		No
	50		No



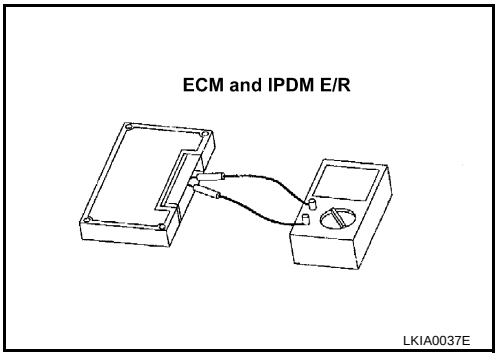
OK or NG

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)
- 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”" .