SECTION LAN

LAN SYSTEM

CONTENTS

CAN

PRECAUTIONS

PFP:00001

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

NKS001VM

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

NKS001VN

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-diagnostic results?
   - If YES, GO TO 3.
   - If NO, GO TO 4.
3. Based on self-diagnostic 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-5, "TROUBLE DIAGNOSES WORK FLOW" .

Precautions for Trouble Diagnosis

NKS001VO

CAN SYSTEM

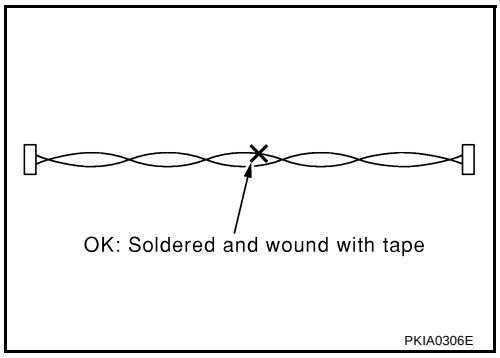
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precautions for Harness Repair

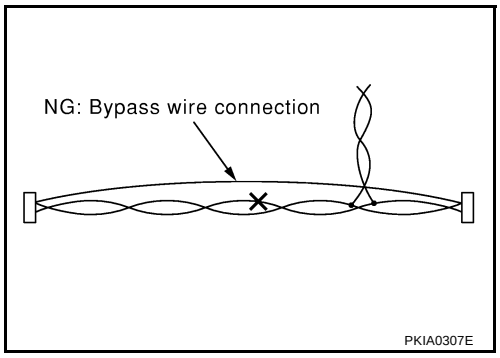
NKS001VP

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

NKS001VQ

WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

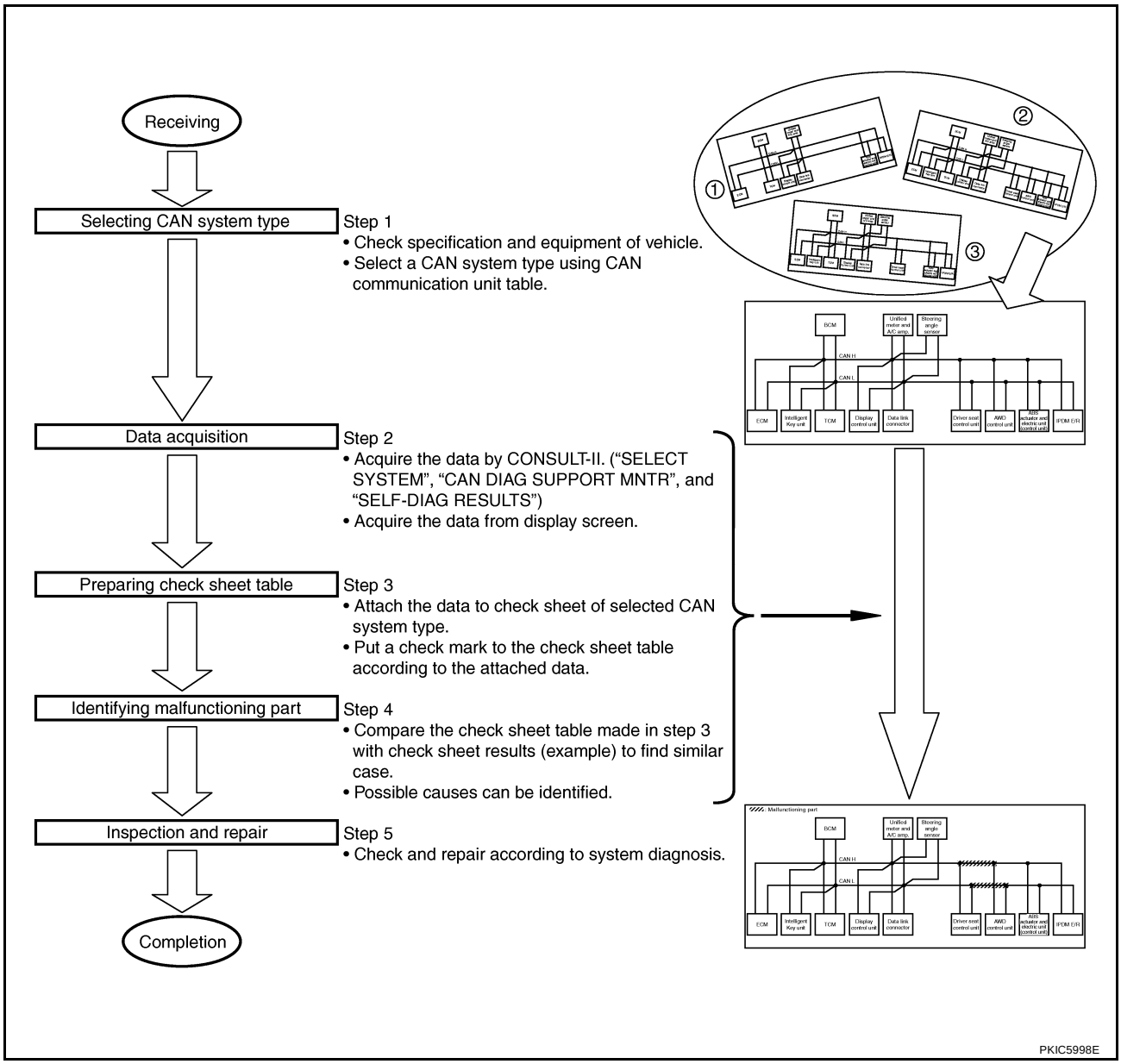
- CAN communication line is open. (CAN H, CAN L, or both)
- CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)
- The areas related to CAN communication of unit is malfunctioning.

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-7, "SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)" .
- Step 2: Refer to LAN-8, "ACQUISITION OF DATA BY CONSULT-II" .
- Step 3: Refer to LAN-10, "HOW TO USE CHECK SHEET TABLE" .
- Step 4: Refer to LAN-11, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced" .
- Step 5: Refer to LAN-157, "TROUBLE DIAGNOSIS FOR SYSTEM" .

Diagnosis Procedure

NKS001VR

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) Wagon/AWD/VQ35DE/CVT/VDC/With automatic drive positioner/With Intelligent Key system

CAN Communication Unit

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

Body type	Wagon					
Axle	2WD			AWD		
Engine	VQ35DE					
Transmission	CVT					
Brake control	ABS		VDC	ABS		VDC
Automatic drive positioner		×	×		×	×
Intelligent Key system		×	×		×	×
CAN system type	1	2	3	4	5	6
CAN system trouble diagnosis						

×: Applicable

Check basic specifications of the vehicle.

Select " × " if it is model with automatic drive positioner.

Select " × " if it is model with Intelligent Key system.

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 6.

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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.(For display control unit, transfer the data from the display screen of the vehicle to “CAN DIAG SUPPORT MONITOR Check Sheet”. Refer to AV-178, "CAN Communication Check" .)

Copy “SELECT SYSTEM” screen of CONSULT-II.

SELECT SYSTEM	SELECT SYSTEM
ENGINE	BCM
ABS	INTELLIGENT KEY
AIR BAG	AUTO DRIVE POS.
ALL MODE AWD/4WD	TRANSMISSION
BCM	REARVIEW CAMERA
INTELLIGENT KEY	METER A/C AMP
Page Down	Page Up
BACK LIGHT COPY	BACK LIGHT COPY

AV section

Copy “CAN DIAG SUPPORT MONITOR Check Sheet” of CAN Communication Check.

Diagnosis item	Screen display		Diagnosis item	Screen display	
CAN_COMM	OK	NG	CAN_CRIC_5	OK	UNKWN
CAN_CRIC_1	OK	UNKWN	CAN_CRIC_6	OK	UNKWN
CAN_CRIC_2	OK	UNKWN	CAN_CRIC_7	OK	UNKWN
CAN_CRIC_3	OK	UNKWN	CAN_CRIC_8	OK	UNKWN
CAN_CRIC_4	OK	UNKWN	CAN_CRIC_9	OK	UNKWN

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM (SEC)	DISPLAY	METER M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	–	–	UNKWN	–	–	UNKWN	UNKWN	–	UNKWN	–	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) / CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000) / –
TRANSMISSION	No indication	NG	UNKWN	UNKWN	–	–	–	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000) / –
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000) / –
Display control unit	–	NG	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–	UNKWN	– / –
METER A/C AMP	No indication	–	UNKWN	UNKWN	–	UNKWN	UNKWN	UNKWN	–	–	UNKWN	UNKWN	–	CAN COMM CIRCUIT (U1000) / –
AUTO DRIVE POS.	No indication	NG	UNKWN	–	–	UNKWN	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000) / –
ALL MODE AWD/4WD	–	NG	UNKWN	UNKWN	–	–	–	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000) / –
ABS	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	UNKWN	UNKWN	–	–	CAN COMM CIRCUIT (U1000) / –
IPDM E/R	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	–	–	–	–	–	CAN COMM CIRCUIT (U1000) / –

Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.

Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	–
CAN CIRC 2	BCM	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	–
CAN CIRC 4	–	CAN CIRC 9	–

Attach copy of display control unit CAN DIAG SUPPORT MONITOR Check Sheet

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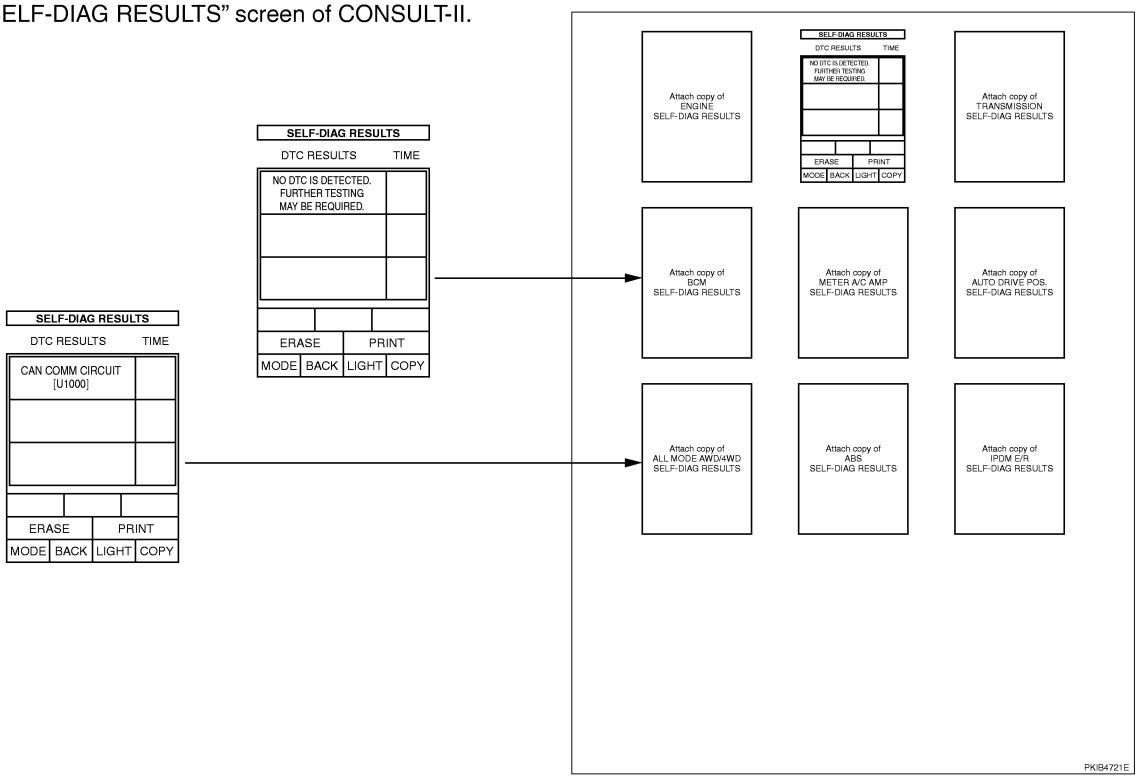
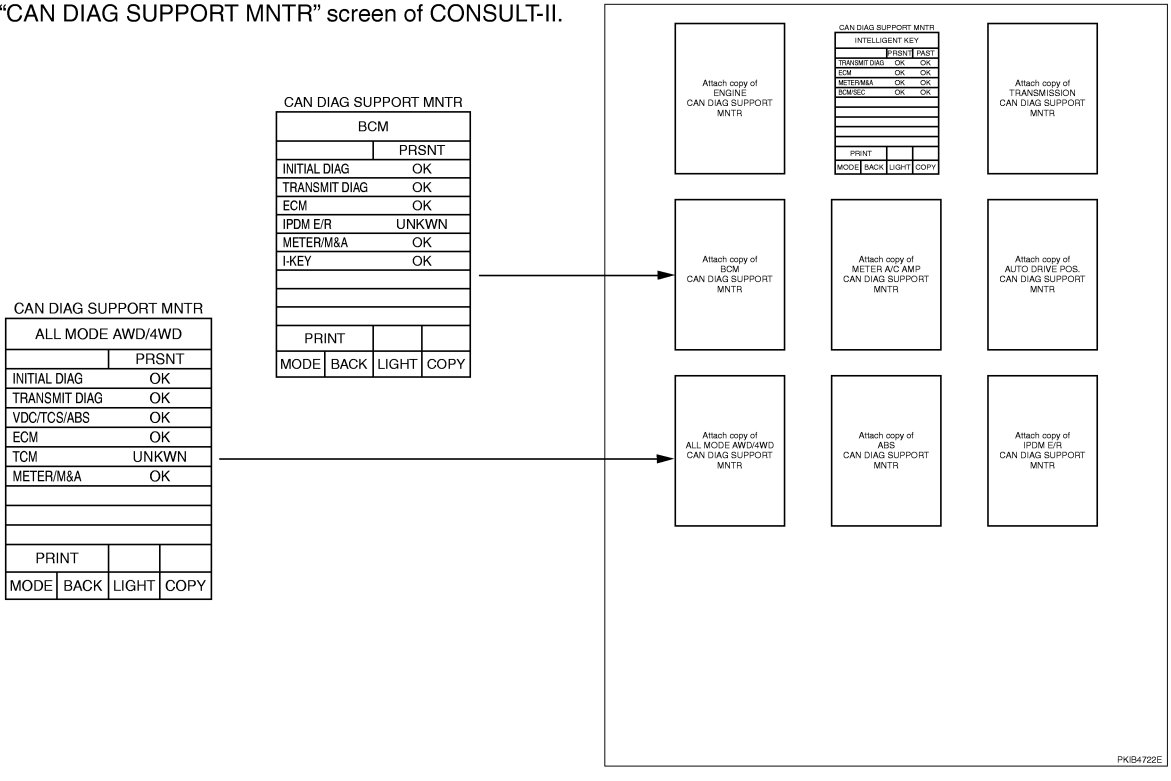
Copy “SELF-DIAG RESULTS” screen of CONSULT-II.



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



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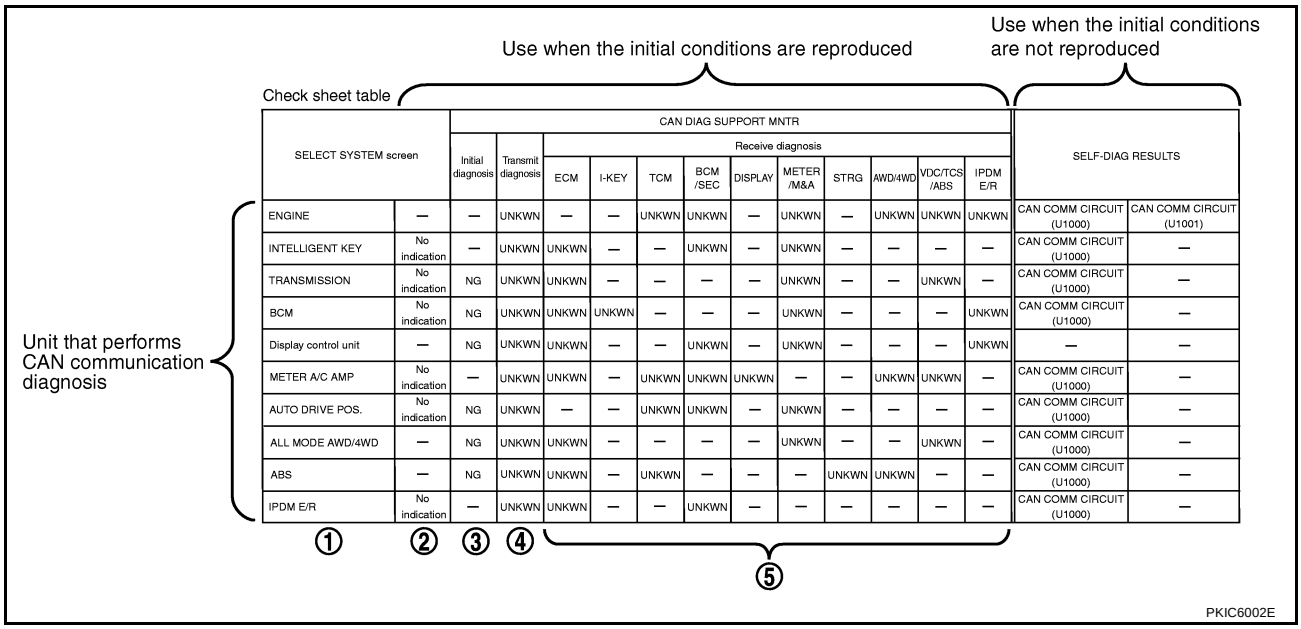
HOW TO USE CHECK SHEET TABLE



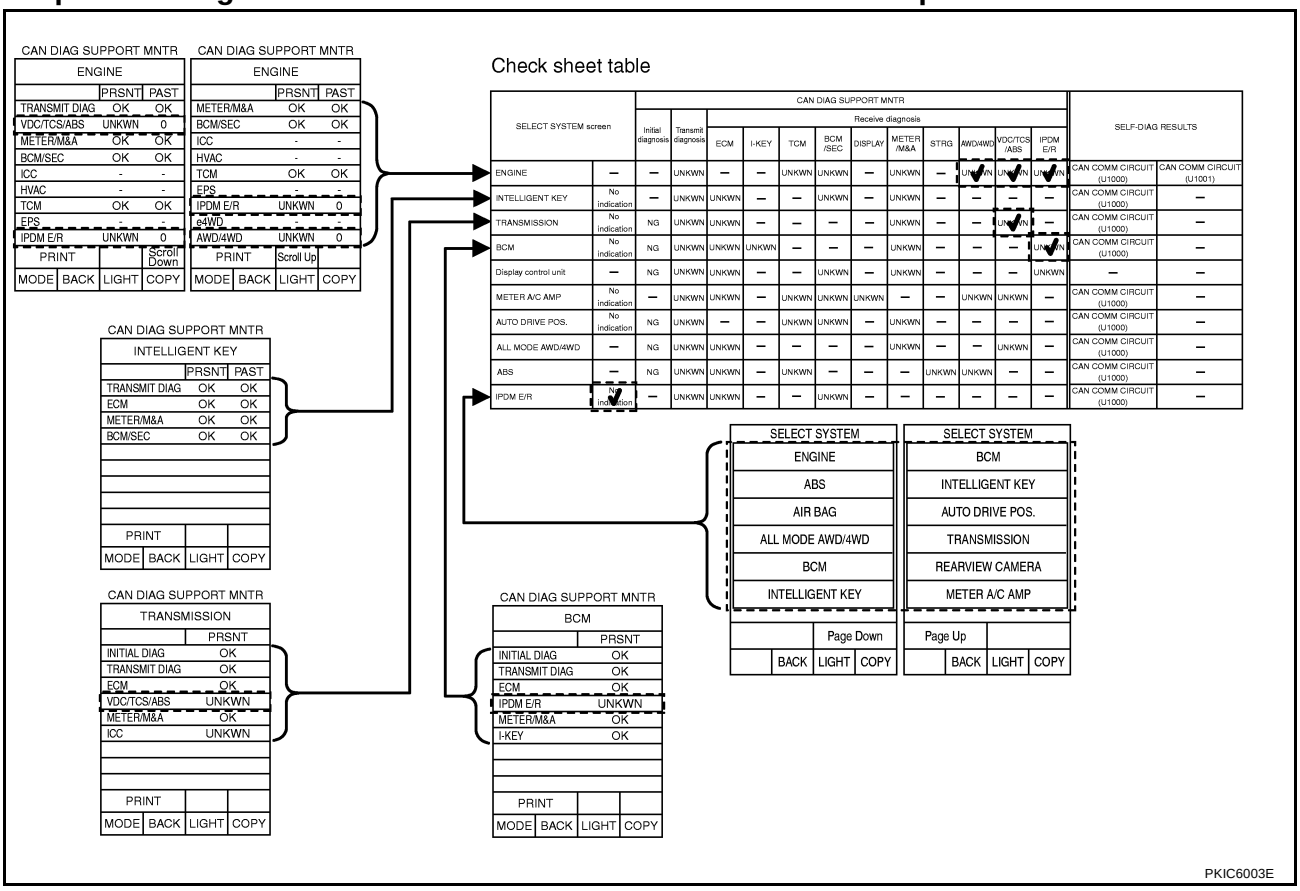
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	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.
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-11, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced" .
- When the initial conditions are not reproduced, refer to LAN-15, "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.

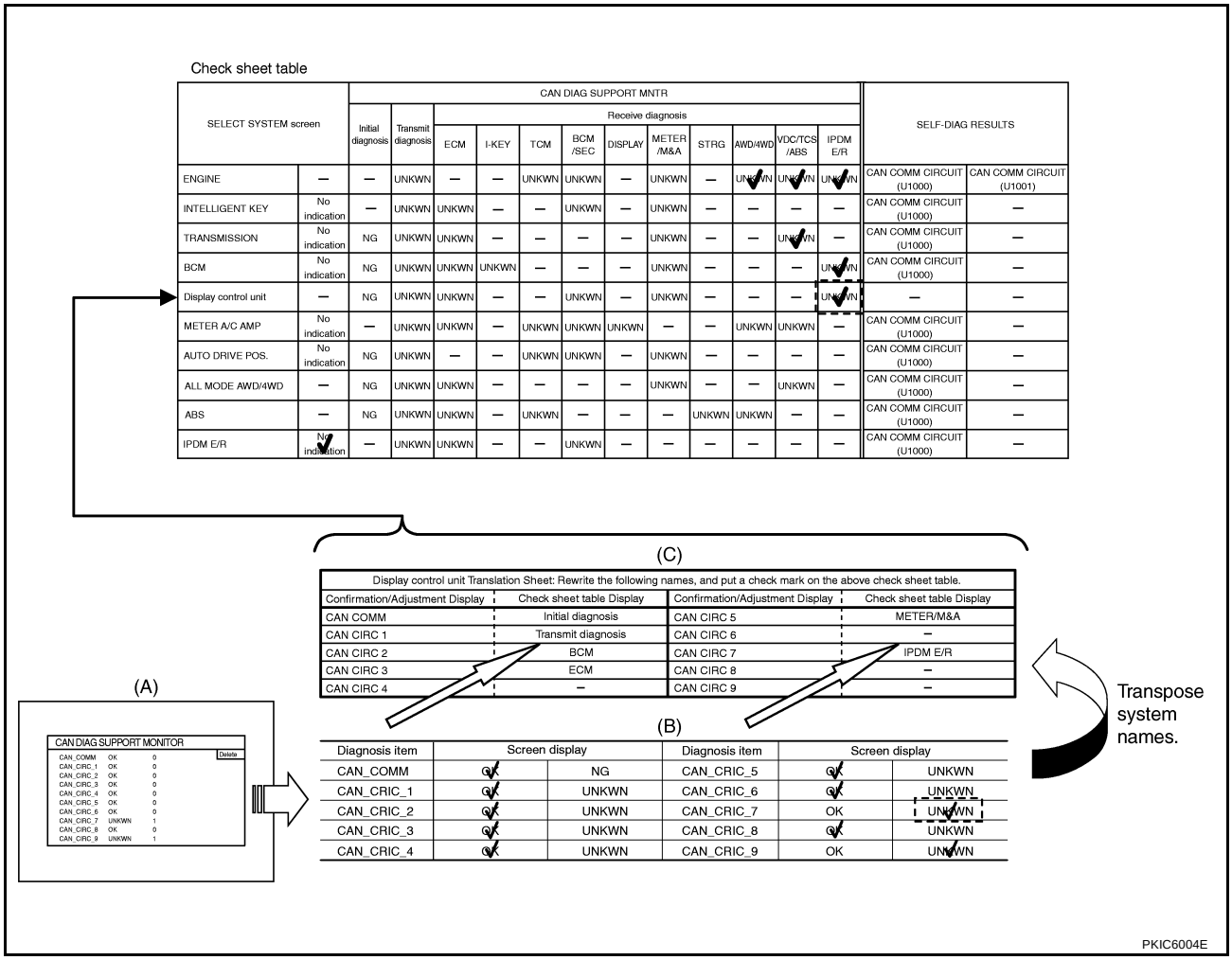
   NOTE:
   Put a check mark to “No indication” of IPDM E/R because IPDM E/R is not displayed on “SELECT SYSTEM” screen.

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”, “IPDM E/R” and “AWD/4WD”. 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 “INTELLIGENT KEY”, “TRANSMISSION” and “BCM” as well as “ENGINE”. And then, put a check mark to the check sheet table.

   NOTE:
   - For “INTELLIGENT KEY”, “UNKWN” is not displayed. Do not put a check to it.
   - For “TRANSMISSION”, “UNKWN” is displayed on “VDC/TCS/ABS” and “ICC”. But put a check mark to “VDC/TCS/ABS” because “UNKWN” is listed on the column of reception diagnosis of the check sheet table.
   - For “BCM”, “UNKWN” is displayed on “IPDM E/R”. Put a check mark to it.



4. For display control unit, put a check mark in the following procedure.

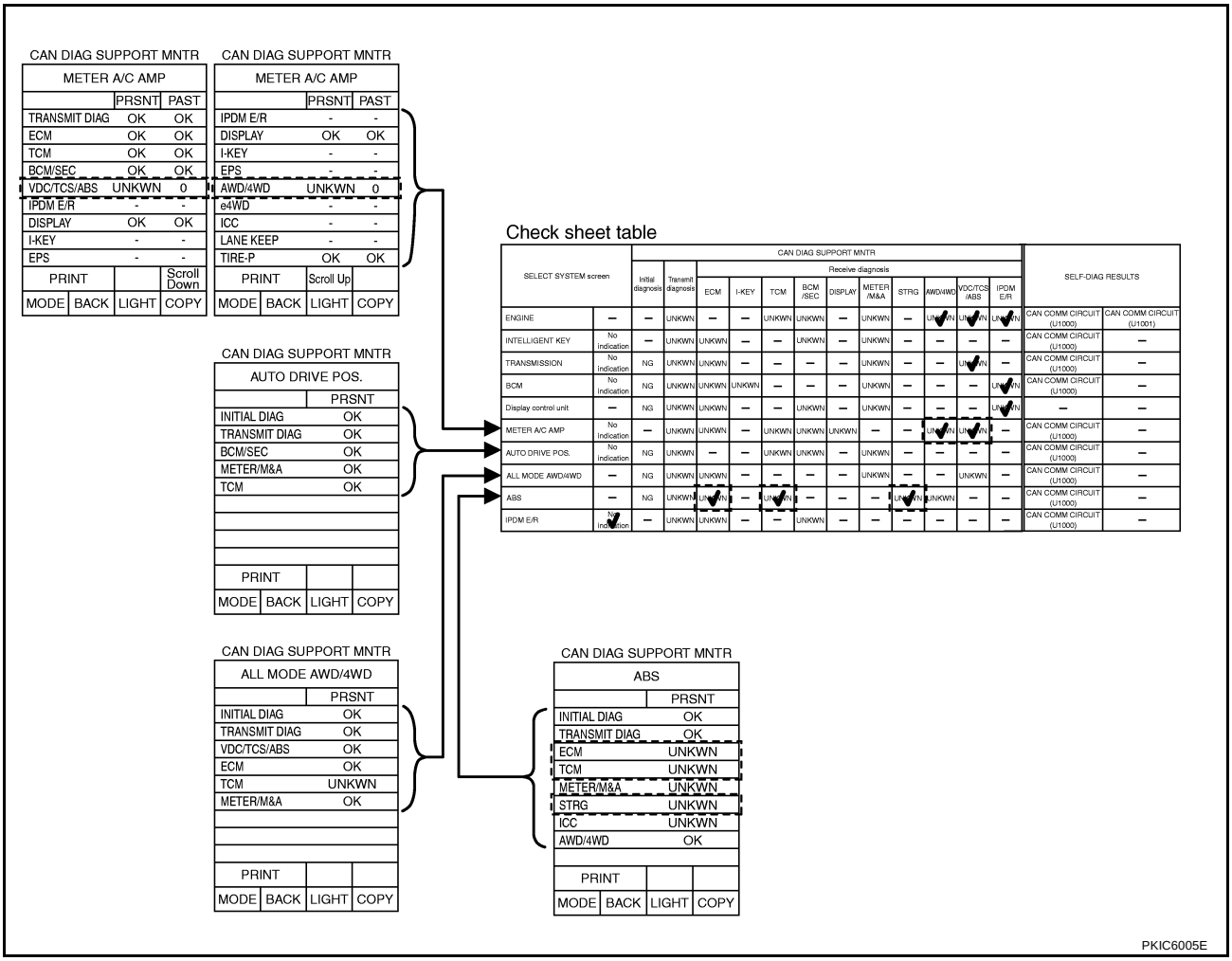
a. Copy to “CAN DIAG SUPPORT MONITOR Check Sheet” (B) from the display screen (A). Refer to AV-178, "CAN Communication Check" .

b. Read “CAN DIAG SUPPORT MONITOR Check Sheet” (B) with “Display control unit Translation Sheet” (C).

c. Check “UNKWN” with a check mark. Put a check mark to the check sheet table.

NOTE:

In “CAN DIAG SUPPORT MONITOR Check Sheet” (B), check marks are put to “CAN CIRC 7” and “CAN CIRC 9”. But, in the column of the check sheet table indication in “Display control unit Translation Sheet” (C), “IPDM E/R” is listed only for “CAN CIRC 7”. Therefore, put a check mark to “IPDM E/R” because “UNKWN” is listed on the column of reception diagnosis of the check sheet table.



5. Confirm the unit name that “UNKWN” is displayed on the copy of “CAN DIAG SUPPORT MNTR” screen of “METER A/C AMP”, “AUTO DRIVE POS.”, “ALL MODE AWD/4WD” and “ABS” as well as “ENGINE”. And then, put a check mark to the check sheet table.

NOTE:

- For “METER A/C AMP”, “UNKWN” is displayed on “VDC/TCS/ABS” and “AWD/4WD”. Put a check mark to it.
- For “AUTO DRIVE POS.”, “UNKWN” is not displayed. Do not put a check to it.
- For “ALL MODE AWD/4WD”, “UNKWN” is displayed on “TCM”. But, do not put a check mark to their columns of reception diagnosis of the check sheet table because “UNKWN” is not listed.
- For “ABS”, “UNKWN” is displayed on “ECM”, “TCM”, “METER/M&A”, “STRG” and “ICC”. But put a check mark to “ECM”, “TCM” and “STRG” because “UNKWN” is listed on the column of reception diagnosis of the check sheet table.

The arranged results of CAN diagnosis support monitor

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	–	UNKWN	UNKWN	–	UNKWN	–	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
TRANSMISSION	No indication	NG	UNKWN	UNKWN	–	–	–	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
Display control unit	–	NG	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–	UNKWN	–	–
METER A/C AMP	No indication	–	UNKWN	UNKWN	–	UNKWN	UNKWN	UNKWN	–	–	UNKWN	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
AUTO DRIVE POS.	No indication	NG	UNKWN	–	–	UNKWN	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
ALL MODE AWD/4WD	–	NG	UNKWN	UNKWN	–	–	–	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
ABS	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	UNKWN	UNKWN	–	–	CAN COMM CIRCUIT (U1000)	–
IPDM E/R	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	–	–	–	–	–	CAN COMM CIRCUIT (U1000)	–

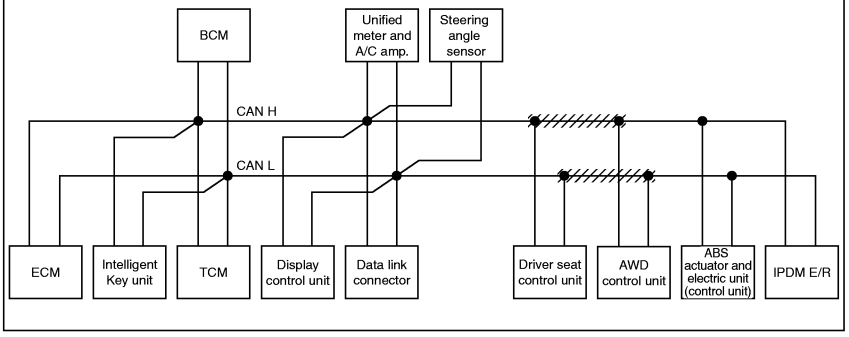
Choose similar indications between the results of CAN diagnosis support monitor and the results of the check sheet. Malfunctioning parts are found.

Case 3
Check harness between driver seat control unit and AWD control unit.

Check sheet results (example)

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	–	UNKWN	UNKWN	–	UNKWN	–	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
TRANSMISSION	No indication	NG	UNKWN	UNKWN	–	–	–	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
Display control unit	–	NG	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–	UNKWN	–	–
METER A/C AMP	No indication	–	UNKWN	UNKWN	–	UNKWN	UNKWN	UNKWN	–	–	UNKWN	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
AUTO DRIVE POS.	No indication	NG	UNKWN	–	–	UNKWN	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
ALL MODE AWD/4WD	–	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)	–

////: Malfunctioning part



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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.

6. Perform system diagnosis for possible causes identified.
7. 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-32, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

SYSTEM ENGINE

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1001]	1t

SYSTEM INTELLIGENT KEY

SELF-DIAG RESULTS

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

SYSTEM TRANSMISSION

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	PAST

SYSTEM BCM

SELF-DIAG RESULTS

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

SYSTEM METER A/C AMP

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	1

SYSTEM AUTO DRIVE POS.

SELF-DIAG RESULTS

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

SYSTEM ALL MODE AWD/4WD

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	1

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

PKIC6007E

1. See “SELF-DIAG RESULTS” of all units attached to the check sheet. If “CAN COMM CIRCUIT”, “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]” is displayed. Put a check mark to it.
- For “INTELLIGENT KEY”, “NO DTC IS DETECTED” is displayed. Do not put a check mark to it.
- For “TRANSMISSION”, “CAN COMM CIRCUIT [U1000]” is displayed. Put a check mark to it.
- For “BCM”, “NO DTC IS DETECTED” is displayed. Do not put a check mark to it.
- For “METER A/C AMP”, “CAN COMM CIRCUIT [U1000]” is displayed. Put a check mark to it.
- For “AUTO DRIVE POS.”, “NO DTC IS DETECTED” is displayed. Do not put a check mark to it.
- For “ALL MODE AWD/4WD”, “CAN COMM CIRCUIT [U1000]” is displayed. Put a check mark to it.
- For “ABS”, “CAN COMM CIRCUIT [U1000]” is displayed. Put a check mark to it.
- For “IPDM E/R”, “CAN COMM CIRCUIT [U1000]” is displayed. Put a check mark to it.

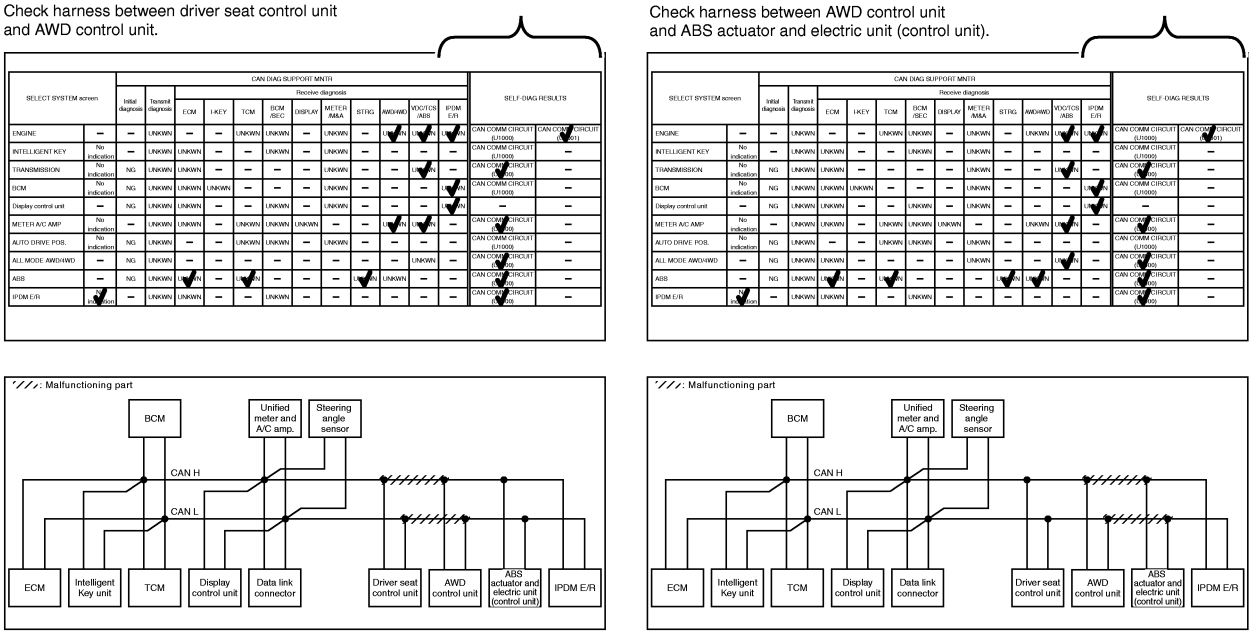
Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: Initial diagnosis	Transmit diagnosis	Receive diagnosis: ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	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)
INTELLIGENT KEY	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
TRANSMISSION	No indication	NG	UNKWN	UNKWN	–	–	–	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
Display control unit	–	NG	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–	UNKWN	–	–
METER A/C AMP	No indication	–	UNKWN	UNKWN	–	UNKWN	UNKWN	UNKWN	–	–	UNKWN	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
AUTO DRIVE POS.	No indication	NG	UNKWN	–	–	UNKWN	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
ALL MODE AWD/4WD	–	NG	UNKWN	UNKWN	–	–	–	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
ABS	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	UNKWN	UNKWN	–	–	CAN COMM CIRCUIT (U1000)	–
IPDM E/R	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	–	–	–	–	–	CAN COMM CIRCUIT (U1000)	–

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

Case 3
Check harness between driver seat control unit and AWD control unit.

Case 4
Check harness between AWD control unit and ABS actuator and electric unit (control unit).



PKIC6008E

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

NKS001VS

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	-	-
HVAC	-	-
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	-	-
HVAC	-	-
TCM	OK	OK
EPS	-	-
IPDM E/R	OK	OK
e4WD	-	-
AWD/4WD	OK	OK
PRINT	Scroll Up	
MODE	BACK	LIGHT	COPY

PKIC5987E

"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). (VDC model)	OK/UNKWN/–	
		VDC/TCS/ABS is not diagnosed. (ABS model)	–	
	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	ICC is not diagnosed.	–	
	HVAC	HVAC is not diagnosed.	–	
	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 INTELLIGENT KEY UNIT

(Example)

CAN DIAG SUPPORT MNTR

INTELLIGENT KEY		
	PRSNT	PAST
TRANSMIT DIAG	OK	OK
ECM	OK	OK
METER/M&A	OK	OK
BCM/SEC	OK	OK

PRINT			
MODE	BACK	LIGHT	COPY

PKIB6071E

"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/–	
	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/–	

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 finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase 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. Keep this condition until resetting it.
- –: Undiagnosed

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TCM

(Example)

CAN DIAG SUPPORT MNTR

TRANSMISSION	
	PRSNT
INITIAL DIAG	OK
TRANSMIT DIAG	OK
ECM	OK
VDC/TCS/ABS	OK
METER/M&A	OK
ICC	UNKWN
PRINT	
MODE BACK LIGHT COPY	

PKIB6072E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
TRANSMISSION	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	ICC is not diagnosed.	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 BCM

(Example)

CAN DIAG SUPPORT MNTR

BCM	
	PRSNT
INITIAL DIAG	OK
TRANSMIT DIAG	OK
ECM	OK
IPDM E/R	OK
METER/M&A	OK
I-KEY	OK
PRINT	
MODE BACK LIGHT COPY	

PKIB6074E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
BCM	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
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
	I-KEY	Make sure of normal reception from Intelligent Key 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 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		-	-
DISPLAY		OK	OK
I-KEY		-	-
EPS		-	-
PRINT			Scroll Down
MODE	BACK	LIGHT	COPY

CAN DIAG SUPPORT MNTR

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

PKIB6075E

“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.	–	
	DISPLAY	Make sure of normal reception from display control unit.	OK/UNKWN/–	
	I-KEY	I-KEY is not diagnosed.	–	
	EPS	EPS is not diagnosed.	–	
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN/–	
	e4WD	e4WD is not diagnosed.	–	
	ICC	ICC is not diagnosed.	–	
	LANE KEEP	LANE KEEP is not diagnosed.	–	
	TIRE-P	TIRE-P is not diagnosed.	OK	

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 finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase 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. Keep this condition until resetting it.
- –: 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

PKIB6076E

"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	Make sure of normal transmission.	OK/UNKWN
	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 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

PKIB6077E

"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). (VDC model)	OK/UNKWN
		VDC/TCS/ABS is not diagnosed.(ABS model)	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 ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

ABS model

(Example)

CAN DIAG SUPPORT MNTR

ABS	
	PRSNT
INITIAL DIAG	OK
TRANSMIT DIAG	OK
ECM	OK
PRINT	
MODE BACK LIGHT COPY	

PKIA8949E

“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

Display Results (Present)

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

VDC model

(Example)

CAN DIAG SUPPORT MNTR

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

PKIB6078E

“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	ICC is not diagnosed.	UNKWN
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN

Display Results (Present)

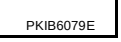
- OK: Normal
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR 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



“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)

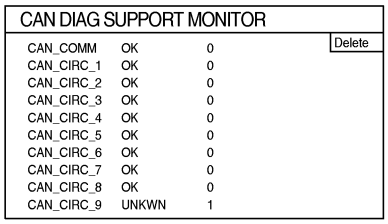
- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- –: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 – 39: Displays when it finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase 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. Keep this condition until resetting it.
- –: Undiagnosed

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

(Example)



PKIC6980E

Unit name	Diagnosis item	Description	"CAN DIAG SUPPORT MONITOR" screen	Error counter (Reference)
Display control unit	CAN COMM	Make sure that microcomputer in ECU works normally.	OK/NG	0/1 – 50
	CAN CIRC 1	Make sure of normal transmission.	OK/UNKWN	
	CAN CIRC 2	Make sure of normal reception from BCM.	OK/UNKWN	
	CAN CIRC 3	Make sure of normal reception from ECM.	OK/UNKWN	
	CAN CIRC 4	CAN CIRC 4 is not diagnosed.	OK	
	CAN CIRC 5	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN	
	CAN CIRC 6	CAN CIRC 6 is not diagnosed.	OK	
	CAN CIRC 7	Make sure of normal reception from IPDM E/R.	OK/UNKWN	
	CAN CIRC 8	CAN CIRC 8 is not diagnosed.	OK	
	CAN CIRC 9	CAN CIRC 9 is not diagnosed.	UNKWN	

Display Results (Present)

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

Display Results: Error Counter (Reference)

- 0: It is normal now.
- 1 – 50: Displays when it finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase like 0→1→2...49→50 after returning to the normal condition whenever IGN OFF→ON. If it is over 50, it is fixed to 50 until the self-diagnostic results are erased. Keep this condition until resetting it.

CAN COMMUNICATION

PFP:23710

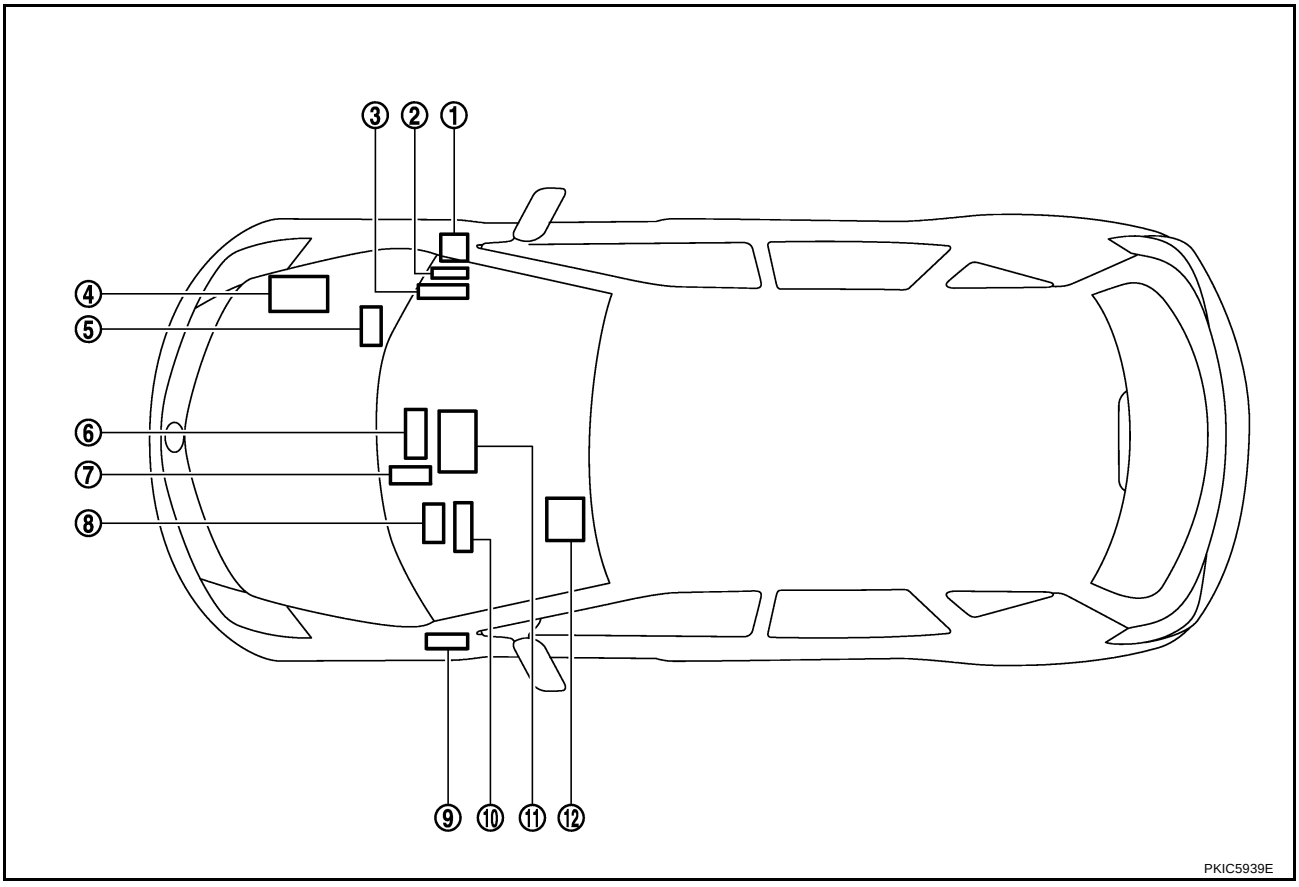
System Description

NKS001VT

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.

Component Parts and Harness Connector Location

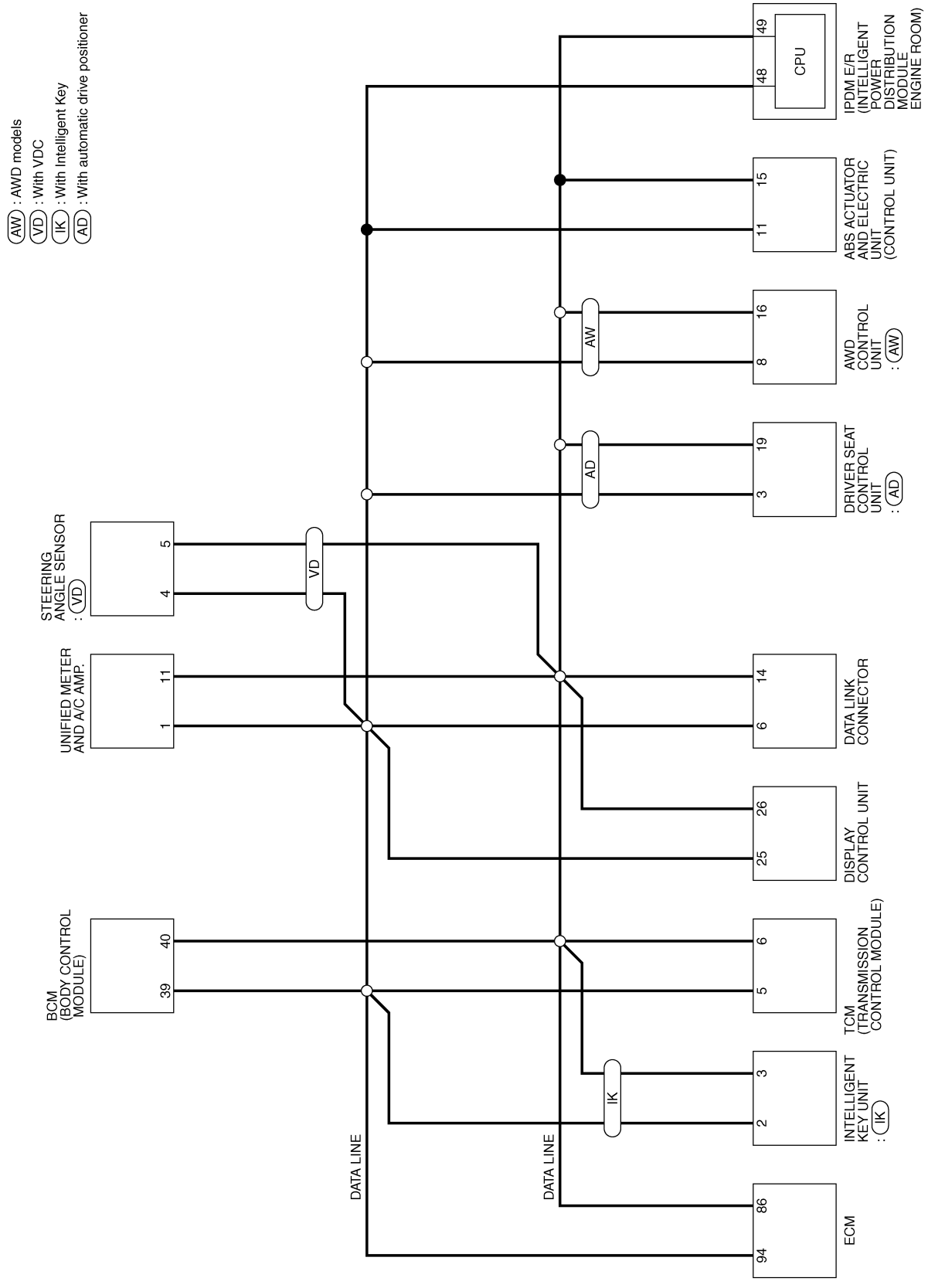
NKS002KW



1.	Intelligent Key unit M99 (with Intelligent Key)	2.	TCM F103	3.	ECM M80
4.	IPDM E/R E9	5.	ABS actuator and electric unit (control unit) E24	6.	Display control unit M43
7.	BCM M34	8.	Data link connector M24	9.	AWD control unit E111 (AWD model)
10.	Steering angle sensor M33 (with VDC)	11.	Unified meter and A/C amp. M49	12.	Driver seat control unit B303 (with automatic drive positioner)

Schematic

NKS002KX



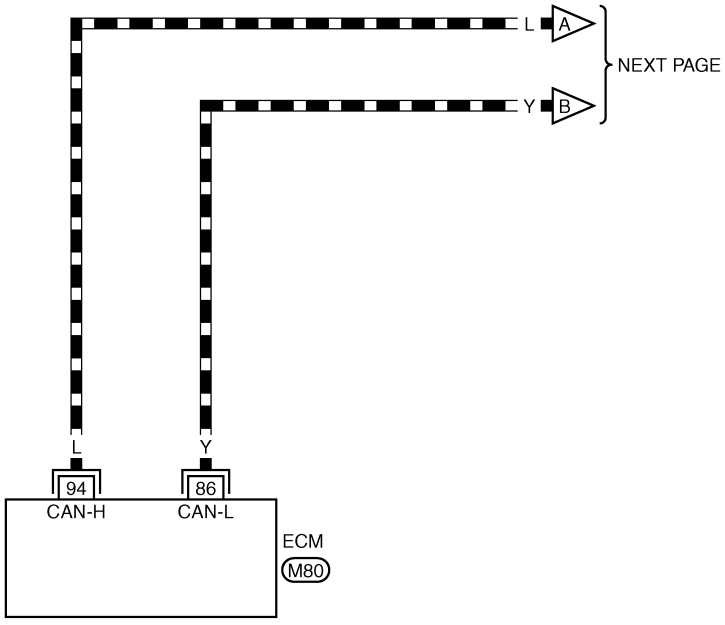
TKWB2623E

Wiring Diagram — CAN —

NKS002KY

LAN-CAN-01

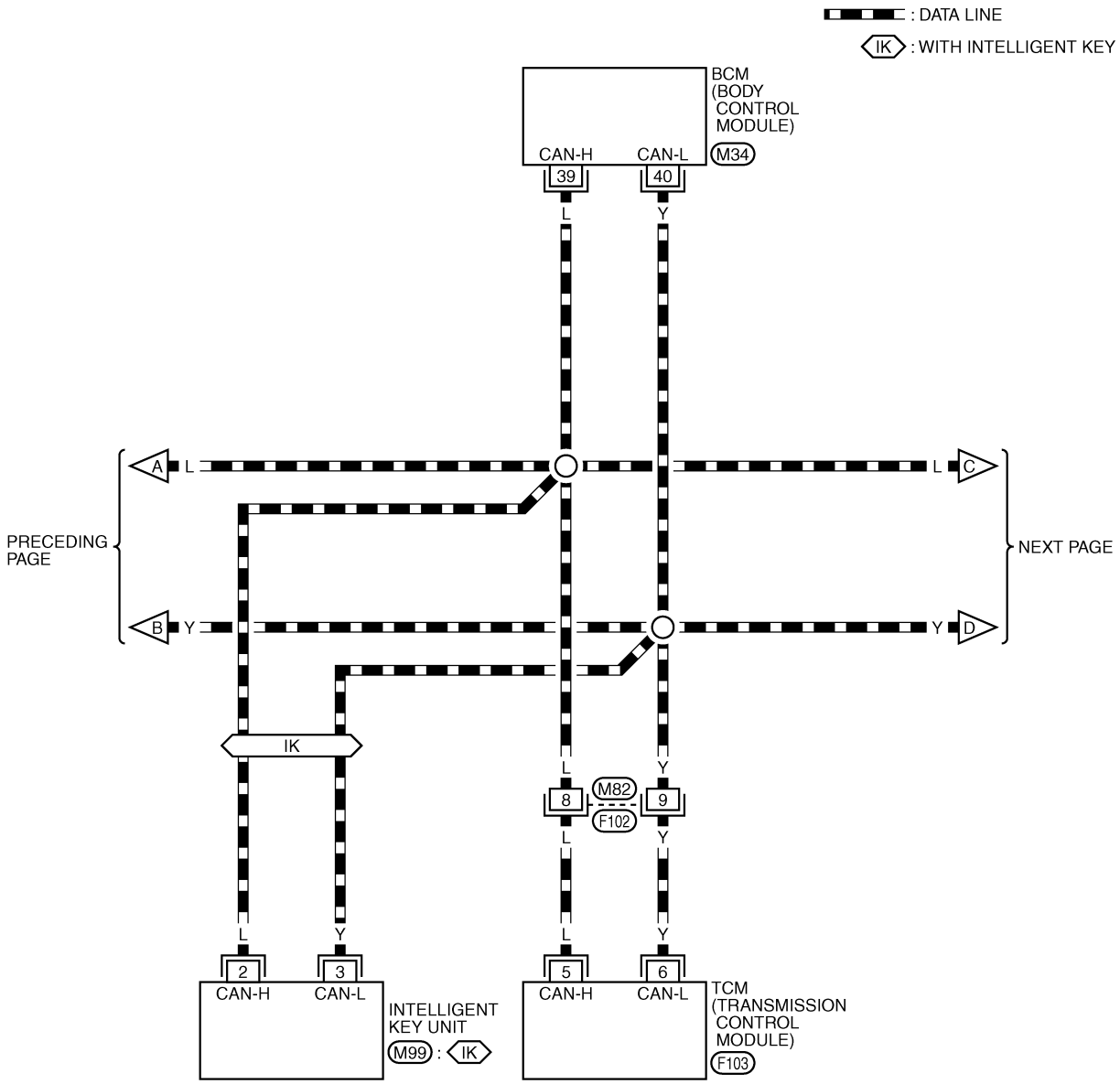
: DATA LINE

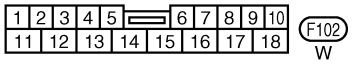


REFER TO THE FOLLOWING.
M80 -ELECTRICAL UNITS

TKWB0822E

LAN-CAN-02

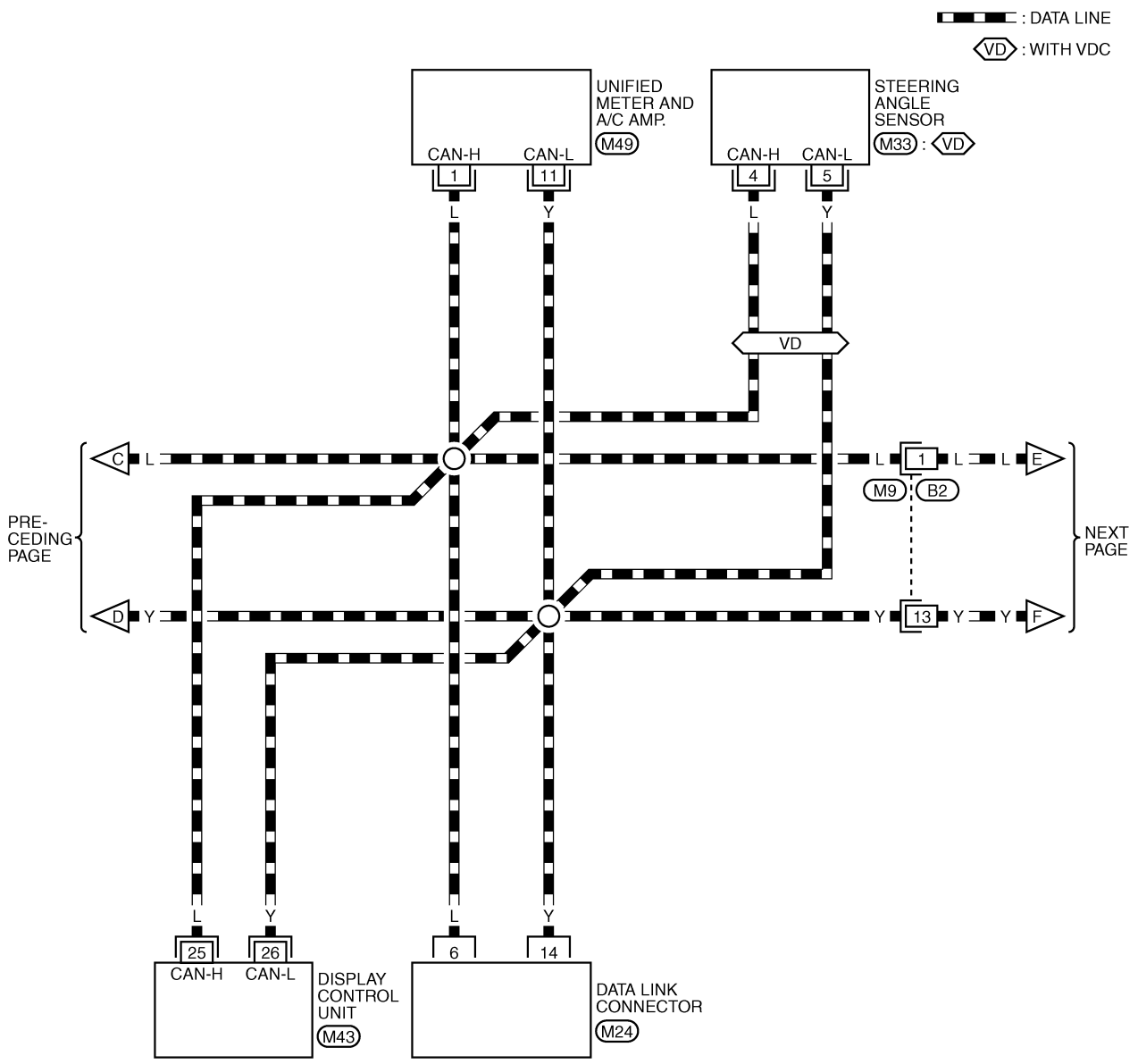


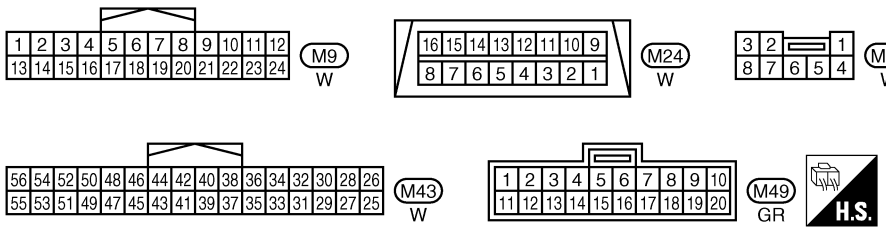


REFER TO THE FOLLOWING.
M34 , M99 , F103
-ELECTRICAL UNITS

TKWB2624E

LAN-CAN-03



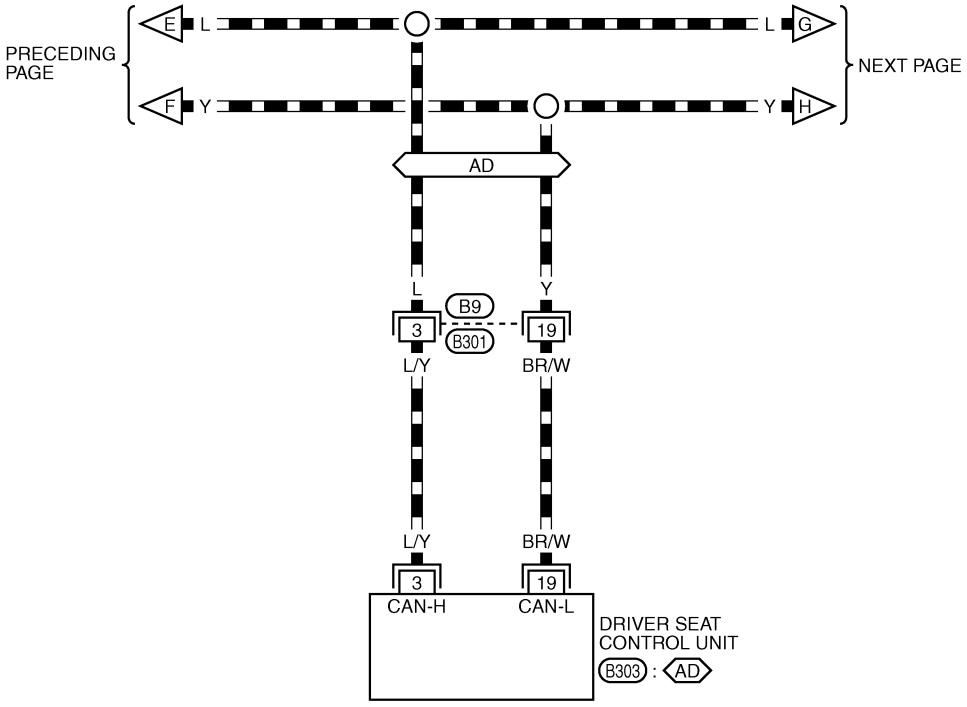


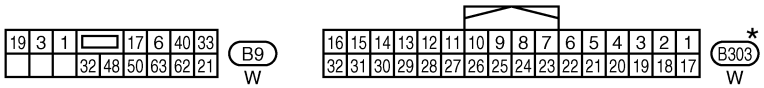
TKWB2625E

LAN-CAN-04

: DATA LINE

AD : WITH AUTOMATIC DRIVE POSITIONER





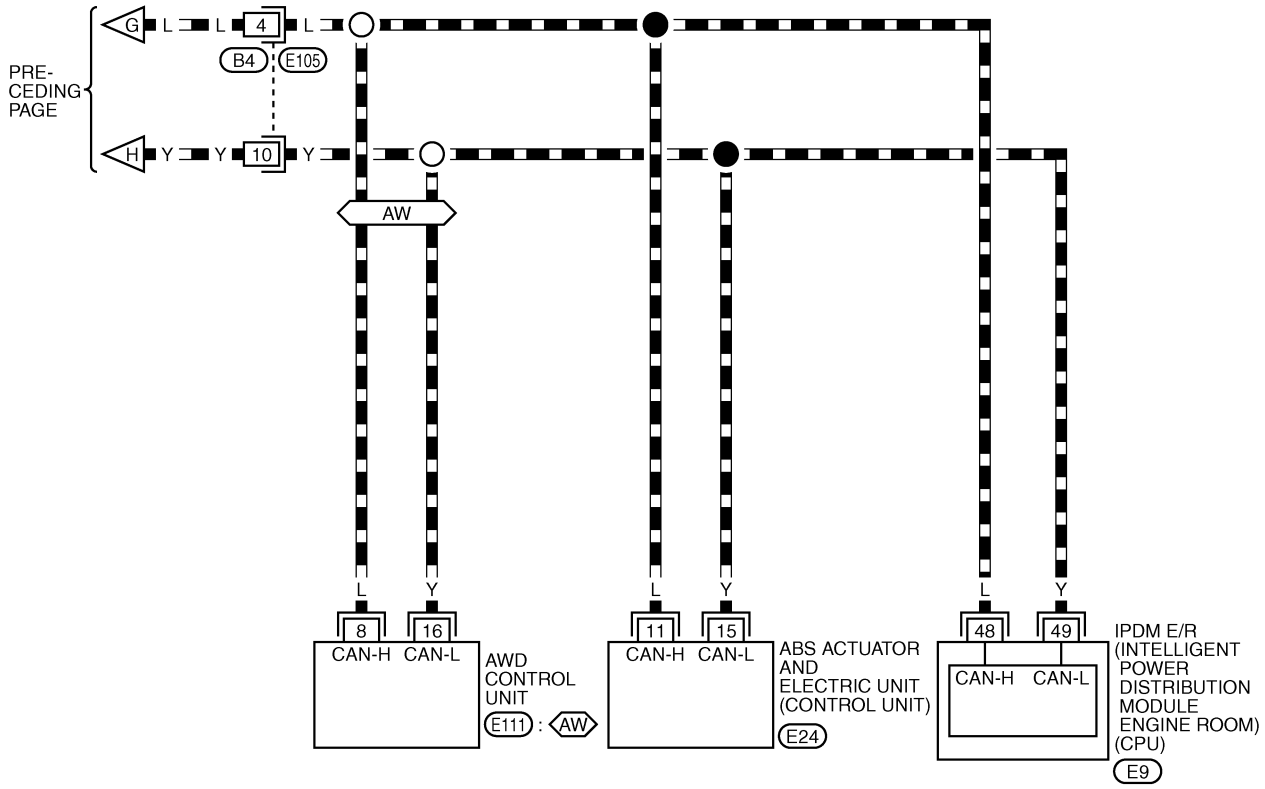
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

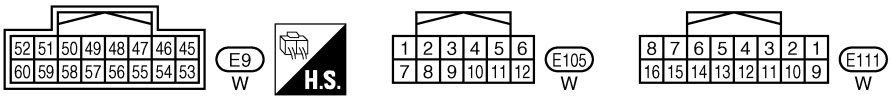
TKWB2626E

LAN-CAN-05

: DATA LINE

AW : AWD MODELS





REFER TO THE FOLLOWING.

E24 -ELECTRICAL UNITS

TKWB2627E

CAN Communication Unit

NKS001VU

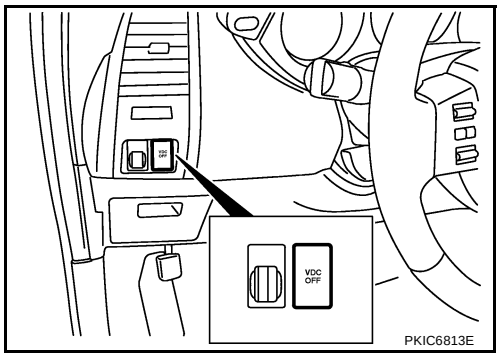
Go to CAN system, when selecting your CAN system type from the following table.

Body type	Wagon					
Axle	2WD			AWD		
Engine	VQ35DE					
Transmission	CVT					
Brake control	ABS		VDC	ABS		VDC
Automatic drive positioner		×	×		×	×
Intelligent Key system		×	×		×	×
CAN system type	1	2	3	4	5	6
CAN system trouble diagnosis	LAN-45	LAN-60	LAN-78	LAN-97	LAN-114	LAN-135

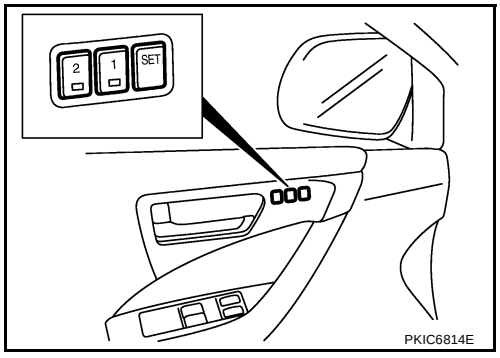
×: Applicable

NOTE:
Confirming the presence of the following items helps to identify CAN system type.

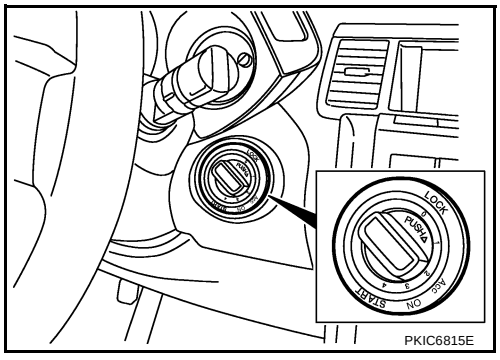
- Model with VDC



- Model with automatic drive positioner



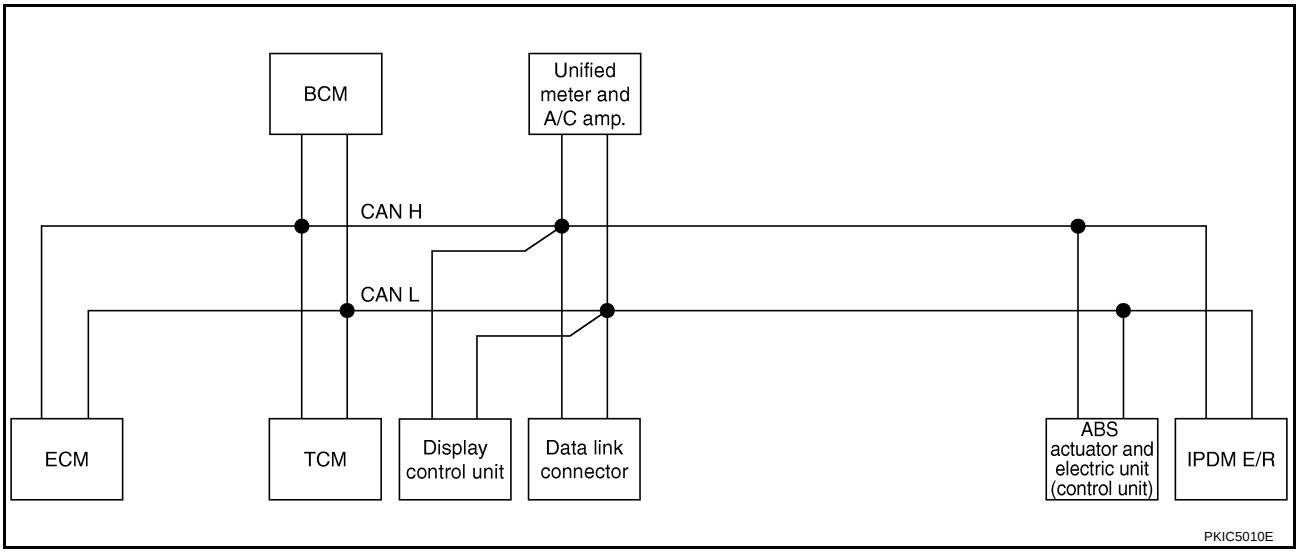
- Model with Intelligent Key system



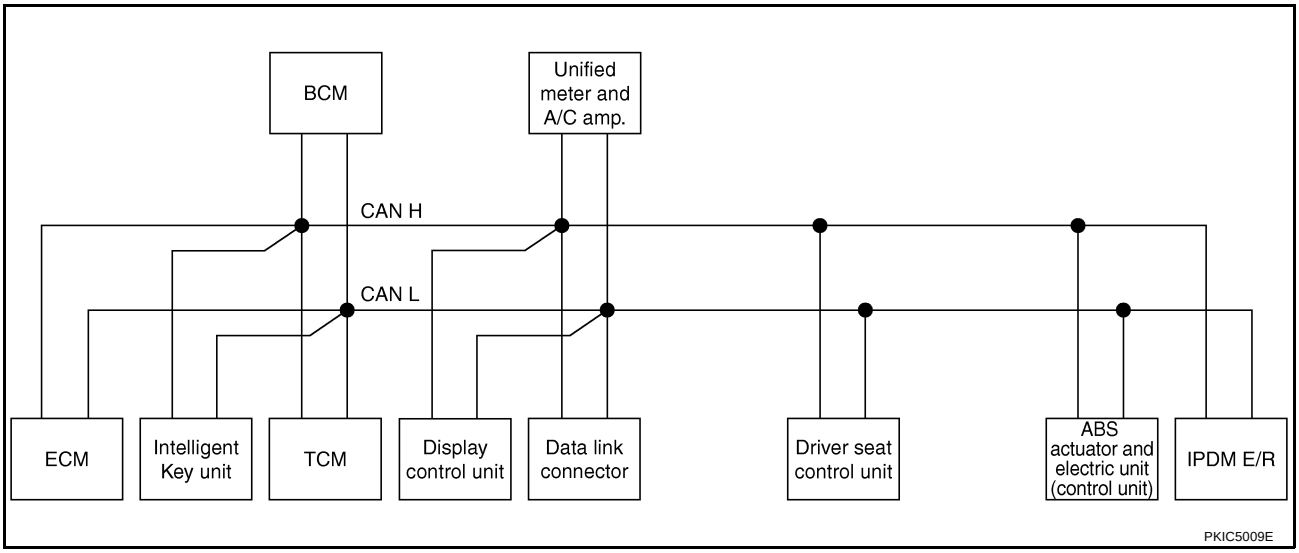
TYPE 1/TYPE 2

System Diagram

- Type 1



- Type 2



Input/output Signal Chart

T: Transmit R: Receive

Signals	ECM	Intelligent Key unit*1	TCM	BCM	Display control unit	Unified meter and A/C amp.	Driver seat control unit*2	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	T								R
Accelerator pedal position signal	T		R						
ASCD CRUISE lamp signal	T					R			
ASCD SET lamp signal	T					R			
Closed throttle position signal	T		R						
Cooling fan speed request signal	T								R
Engine and CVT integrated control signal	T		R						
	R		T						

Signals	ECM	Intelligent Key unit*1	TCM	BCM	Display control unit	Unified meter and A/C amp.	Driver seat control unit*2	ABS actuator and electric unit (control unit)	IPDM E/R
Engine coolant temperature signal	T					R			
Engine speed signal	T	R	R		R	R			
Engine status signal	T			R					
Fuel consumption monitor signal	T					R			
					R	T			
Malfunction indicator lamp signal	T					R			
Wide open throttle position signal	T		R						
Door lock/unlock request signal		T		R					
Hazard request signal		T		R					
Hazard warning lamp request signal		T		R					
Ignition knob switch signal		T		R					
Panic alarm request signal		T		R					
Power window open request signal		T		R					
CVT position indicator signal			T			R			
CVT self-diagnosis signal	R		T						
Input shaft revolution signal	R		T						
Manual mode indicator signal			T			R			
Output shaft revolution signal	R		T						
P range signal			T				R		
Second position indicator signal			T			R			
A/C switch signal	R			T					
Blower fan motor switch signal	R			T					
Buzzer output signal				T		R			
Door lock/unlock status signal		R		T					
Door switch signal		R		T	R	R	R		R
Front fog lights request signal				T					R
Front wiper request signal				T					R
High beam request signal				T		R			R
Horn chirp signal				T					R
Ignition switch signal				T			R		R
Key fob door unlock signal				T			R		
Key fob ID signal				T			R		
Key switch signal				T			R		
Low beam request signal				T					R
Oil pressure switch signal				T		R			
				R					T
Position lights request signal				T		R			R
Rear window defogger switch signal				T					R
Sleep request 1 signal				T		R			
Sleep request 2 signal				T					R

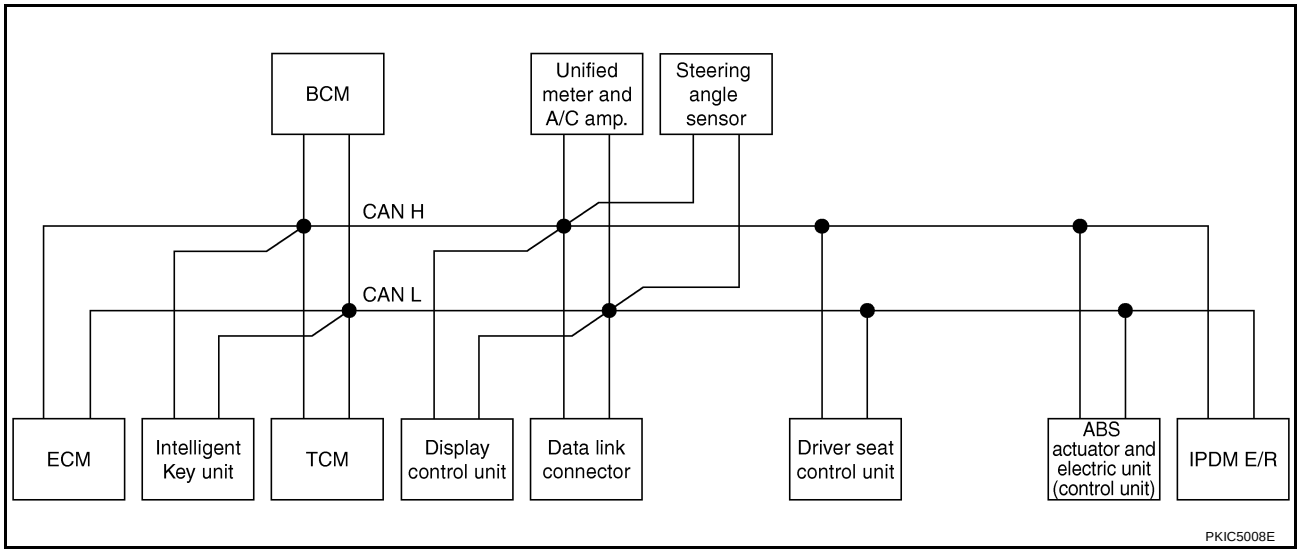
Signals	ECM	Intelligent Key unit*1	TCM	BCM	Display control unit	Unified meter and A/C amp.	Driver seat control unit*2	ABS actuator and electric unit (control unit)	IPDM E/R
System setting signal				R	T		R		
				T	R		T		
Theft warning horn request signal				T					R
Tire pressure data signal				T*1	R*1				
Tire pressure signal				T*1		R*1			
Turn indicator signal				T		R			
A/C switch/indicator signal					T	R			
					R	T			
Distance to empty signal					R	T			
Fuel level low warning signal					R	T			
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			
Second position signal			R			T			
Stop lamp switch signal			R			T			
Turn LED burnout status signal				R		T			
Vehicle speed signal			R			R		T	
	R	R		R	R	T	R		
ABS operation signal			R					T	
ABS warning lamp signal						R		T	
Brake warning lamp signal						R		T	
Front wiper stop position signal				R					T
High beam status signal	R								T
Low beam status signal	R								T
Rear window defogger control signal	R				R				T

- *1: with Intelligent Key system model only.
- *2: with automatic drive positioner model only.

TYPE 3

System Diagram

- Type 3



Input/output Signal Chart

T: Transmit R: Receive

Signals	ECM	Intelligent Key unit	TCM	BCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	T									R
Accelerator pedal position signal	T		R						R	
ASCD CRUISE lamp signal	T					R				
ASCD SET lamp signal	T					R				
Closed throttle position signal	T		R							
Cooling fan speed request signal	T									R
Engine and CVT integrated control signal	T		R							
	R		T							
Engine coolant temperature signal	T					R				
Engine speed signal	T	R	R		R	R			R	
Engine status signal	T			R						
Fuel consumption monitor signal	T					R				
					R	T				
Malfunction indicator lamp signal	T					R				
Wide open throttle position signal	T		R							
Door lock/unlock request signal		T		R						
Hazard request signal		T		R						
Hazard warning lamp request signal		T		R						
Ignition knob switch signal		T		R						
Panic alarm request signal		T		R						
Power window open request signal		T		R						
CVT position indicator signal			T			R			R	

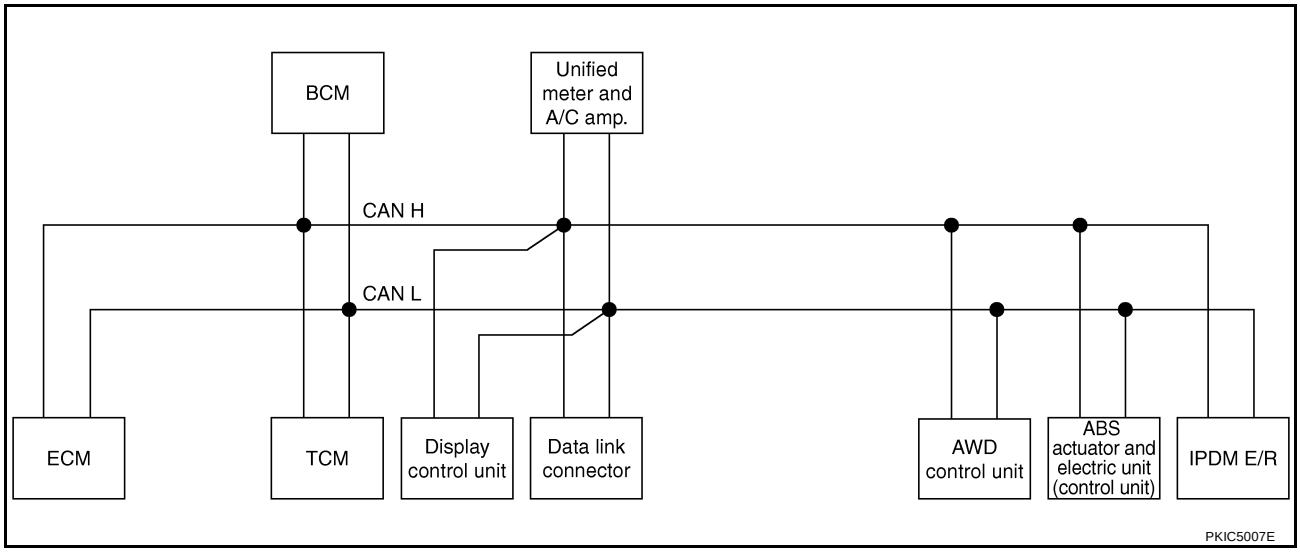
Signals	ECM	Intelligent Key unit	TCM	BCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
CVT self-diagnosis signal	R		T							
Input shaft revolution signal	R		T							
Manual mode indicator signal			T			R				
Output shaft revolution signal	R		T							
P range signal			T					R	R	
Second position indicator signal			T			R			R	
A/C switch signal	R			T						
Blower fan motor switch signal	R			T						
Buzzer output signal				T		R				
Door lock/unlock status signal		R		T						
Door switch signal		R		T	R	R		R		R
Front fog lights request signal				T						R
Front wiper request signal				T						R
High beam request signal				T		R				R
Horn chirp signal				T						R
Ignition switch signal				T				R		R
Key fob door unlock signal				T				R		
Key fob ID signal				T				R		
Key switch signal				T				R		
Low beam request signal				T						R
Oil pressure switch signal				T		R				
				R						T
Position lights request signal				T		R				R
Rear window defogger switch signal				T						R
Sleep request 1 signal				T		R				
Sleep request 2 signal				T						R
System setting signal				R	T			R		
				T	R			T		
Theft warning horn request signal				T						R
Tire pressure data signal				T	R					
Tire pressure signal				T		R				
Turn indicator signal				T		R				
A/C switch/indicator signal					T	R				
					R	T				
Distance to empty signal					R	T				
Fuel level low warning signal					R	T				
Fuel level sensor signal	R					T				
Seat belt buckle switch signal				R		T				
Manual mode shift down signal			R			T				
Manual mode shift up signal			R			T				

Signals	ECM	Intelligent Key unit	TCM	BCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Manual mode signal			R			T				
Not manual mode signal			R			T				
Parking brake switch signal				R		T				
Second position signal			R			T				
Stop lamp switch signal			R			T				
Turn LED burnout status signal				R		T				
Vehicle speed signal			R			R			T	
	R	R		R	R	T		R		
Steering angle sensor signal							T		R	
ABS warning lamp signal						R			T	
Brake warning lamp signal						R			T	
SLIP indicator lamp signal						R			T	
VDC OFF indicator lamp signal						R			T	
VDC operation signal			R						T	
Front wiper stop position signal				R						T
High beam status signal	R									T
Low beam status signal	R									T
Rear window defogger control signal	R				R					T

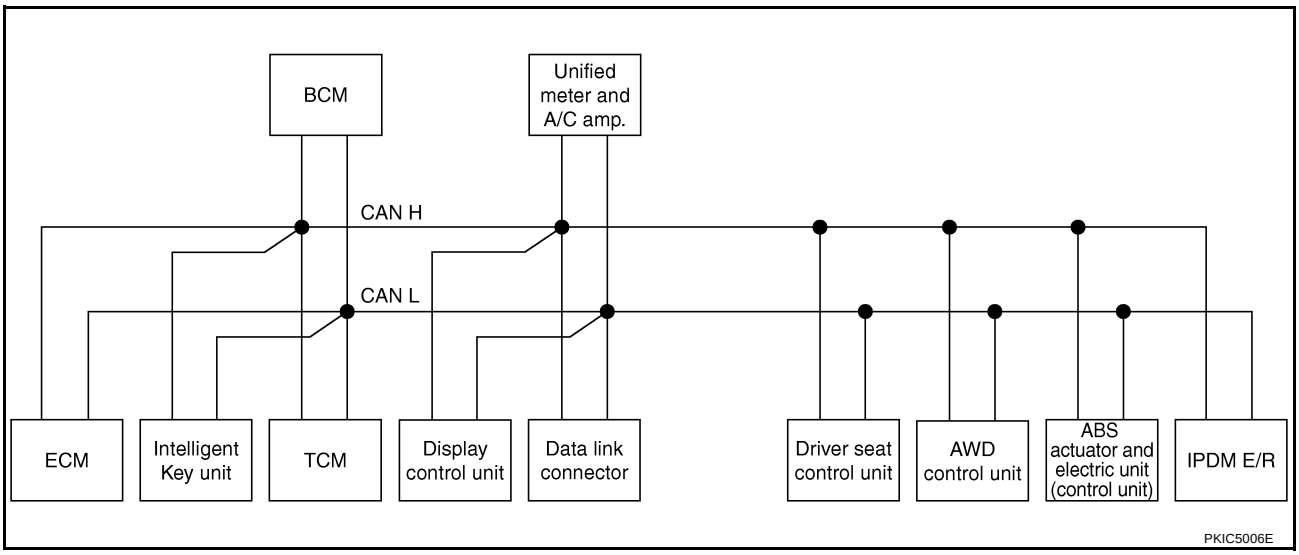
TYPE 4/TYPE 5

System Diagram

- Type 4



- Type 5



Input/output Signal Chart

T: Transmit R: Receive

Signals	ECM	Intelligent Key unit*1	TCM	BCM	Display control unit	Unified meter and A/C amp.	Driver seat control unit*2	AWD control unit	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	T									R
Accelerator pedal position signal	T		R					R		
ASCD CRUISE lamp signal	T					R				
ASCD SET lamp signal	T					R				
Closed throttle position signal	T		R							
Cooling fan speed request signal	T									R
Engine and CVT integrated control signal	T		R							
	R		T							
Engine coolant temperature signal	T					R				
Engine speed signal	T	R	R		R	R		R		
Engine status signal	T			R						
Fuel consumption monitor signal	T					R				
					R	T				
Malfunction indicator lamp signal	T					R				
Wide open throttle position signal	T		R							
Door lock/unlock request signal		T		R						
Hazard request signal		T		R						
Hazard warning lamp request signal		T		R						
Ignition knob switch signal		T		R						
Panic alarm request signal		T		R						
Power window open request signal		T		R						
CVT position indicator signal			T			R				
CVT self-diagnosis signal	R		T							
Input shaft revolution signal	R		T							

Signals	ECM	Intelligent Key unit*1	TCM	BCM	Display control unit	Unified meter and A/C amp.	Driver seat control unit*2	AWD control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Manual mode indicator signal			T			R				
Output shaft revolution signal	R		T							
P range signal			T				R			
Second position indicator signal			T			R				
A/C switch signal	R			T						
Blower fan motor switch signal	R			T						
Buzzer output signal				T		R				
Door lock/unlock status signal		R		T						
Door switch signal		R		T	R	R	R			R
Front fog lights request signal				T						R
Front wiper request signal				T						R
High beam request signal				T		R				R
Horn chirp signal				T						R
Ignition switch signal				T			R			R
Key fob door unlock signal				T			R			
Key fob ID signal				T			R			
Key switch signal				T			R			
Low beam request signal				T						R
Oil pressure switch signal				T		R				
				R						T
Position lights request signal				T		R				R
Rear window defogger switch signal				T						R
Sleep request 1 signal				T		R				
Sleep request 2 signal				T						R
System setting signal				R	T		R			
				T	R		T			
Theft warning horn request signal				T						R
Tire pressure data signal				T*1	R*1					
Tire pressure signal				T*1		R*1				
Turn indicator signal				T		R				
A/C switch/indicator signal					T	R				
					R	T				
AWD lock switch signal						T		R		
Distance to empty signal					R	T				
Fuel level low warning signal					R	T				
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				

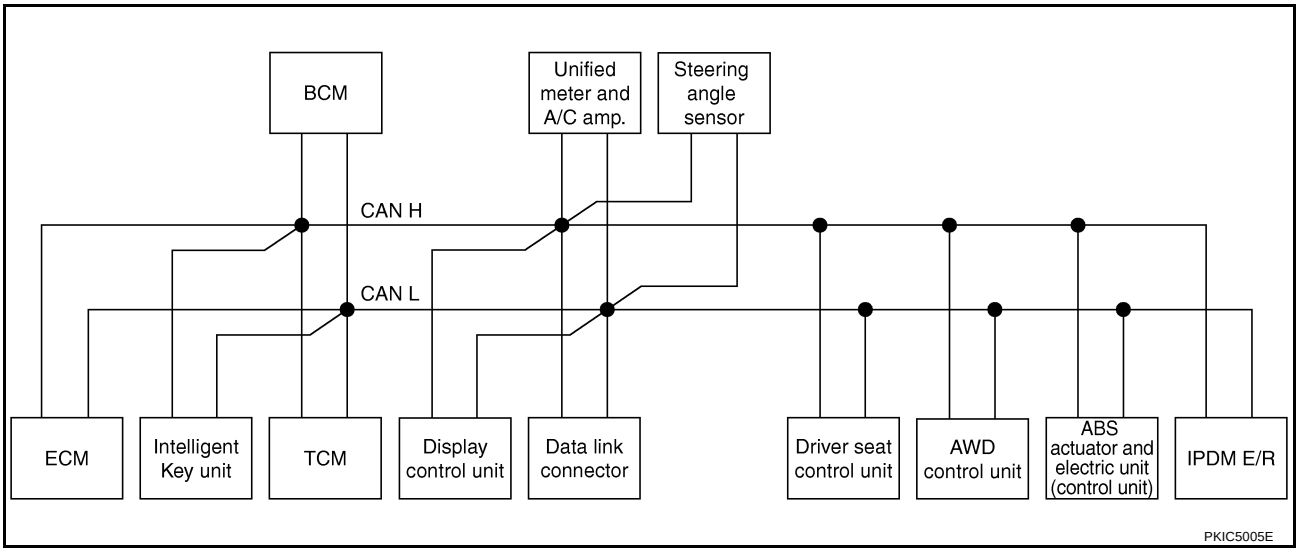
Signals	ECM	Intelligent Key unit*1	TCM	BCM	Display control unit	Unified meter and A/C amp.	Driver seat control unit*2	AWD control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Not manual mode signal			R			T				
Parking brake switch signal				R		T		R		
Seat belt buckle switch signal				R		T				
Second position signal			R			T				
Stop lamp switch signal								R	T	
			R			T				
Turn LED burnout status signal				R		T				
Vehicle speed signal			R			R		R	T	
	R	R		R	R	T	R			
AWD lock indicator lamp signal						R		T		
AWD warning lamp signal						R		T		
ABS operation signal			R						T	
ABS warning lamp signal						R			T	
Brake warning lamp signal						R			T	
Front wiper stop position signal				R						T
High beam status signal	R									T
Low beam status signal	R									T
Rear window defogger control signal	R				R					T

- *1: with Intelligent Key system model only.
- *2: with automatic drive positioner model only.

TYPE 6

System Diagram

- Type 6



Input/output Signal Chart

T: Transmit R: Receive

Signals	ECM	Intelligent Key unit	TCM	BCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	AWD control unit	ABS actuator and electric unit (control unit)	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 SET lamp signal	T					R					
Closed throttle position signal	T		R								
Cooling fan speed request signal	T										R
Engine and CVT integrated control signal	T		R								
	R		T								
Engine coolant temperature signal	T					R					
Engine speed signal	T	R	R		R	R			R	R	
Engine status signal	T			R							
Fuel consumption monitor signal	T					R					
					R	T					
Malfunction indicator lamp signal	T					R					
Wide open throttle position signal	T		R								
Door lock/unlock request signal		T		R							
Hazard request signal		T		R							
Hazard warning lamp request signal		T		R							
Ignition knob switch signal		T		R							
Panic alarm request signal		T		R							
Power window open request signal		T		R							
CVT position indicator signal			T			R				R	
CVT self-diagnosis signal	R		T								
Input shaft revolution signal	R		T								
Manual mode indicator signal			T			R					
Output shaft revolution signal	R		T								
P range signal			T					R		R	
Second position indicator signal			T			R				R	
A/C switch signal	R			T							
Blower fan motor switch signal	R			T							
Buzzer output signal				T		R					
Door lock/unlock status signal		R		T							
Door switch signal		R		T	R	R		R			R
Front fog lights request signal				T							R
Front wiper request signal				T							R
High beam request signal				T		R					R
Horn chirp signal				T							R

Signals	ECM	Intelligent Key unit	TCM	BCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	AWD control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Ignition switch signal				T				R			R
Key fob door unlock signal				T				R			
Key fob ID signal				T				R			
Key switch signal				T				R			
Low beam request signal				T							R
Oil pressure switch signal				T		R					
				R							T
Position lights request signal				T		R					R
Rear window defogger switch signal				T							R
Sleep request 1 signal				T		R					
Sleep request 2 signal				T							R
System setting signal				R	T			R			
				T	R			T			
Theft warning horn request signal				T							R
Tire pressure data signal				T	R						
Tire pressure signal				T		R					
Turn indicator signal				T		R					
A/C switch/indicator signal					T	R					
					R	T					
AWD lock switch signal						T			R		
Distance to empty signal					R	T					
Fuel level low warning signal					R	T					
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			R		
Seat belt buckle switch signal				R		T					
Second position signal			R			T					
Stop lamp switch signal									R	T	
			R			T					
Turn LED burnout status signal				R		T					
Vehicle speed signal			R			R			R	T	
	R	R		R	R	T		R			
Steering angle sensor signal							T			R	
AWD lock indicator lamp signal						R			T		
AWD warning lamp signal						R			T		

Signals	ECM	Intelligent Key unit	TCM	BCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	AWD control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ABS warning lamp signal						R				T	
Brake warning lamp signal						R				T	
SLIP indicator lamp signal						R				T	
VDC OFF indicator lamp signal						R				T	
VDC operation signal			R							T	
Front wiper stop position signal				R							T
High beam status signal	R										T
Low beam status signal	R										T
Rear window defogger control signal	R				R						T

CAN SYSTEM (TYPE 1)

PFP:23710

Component Parts and Harness Connector Location

NKS002U0

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

NKS002U1

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

NKS002U2

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

NKS002U3

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 /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

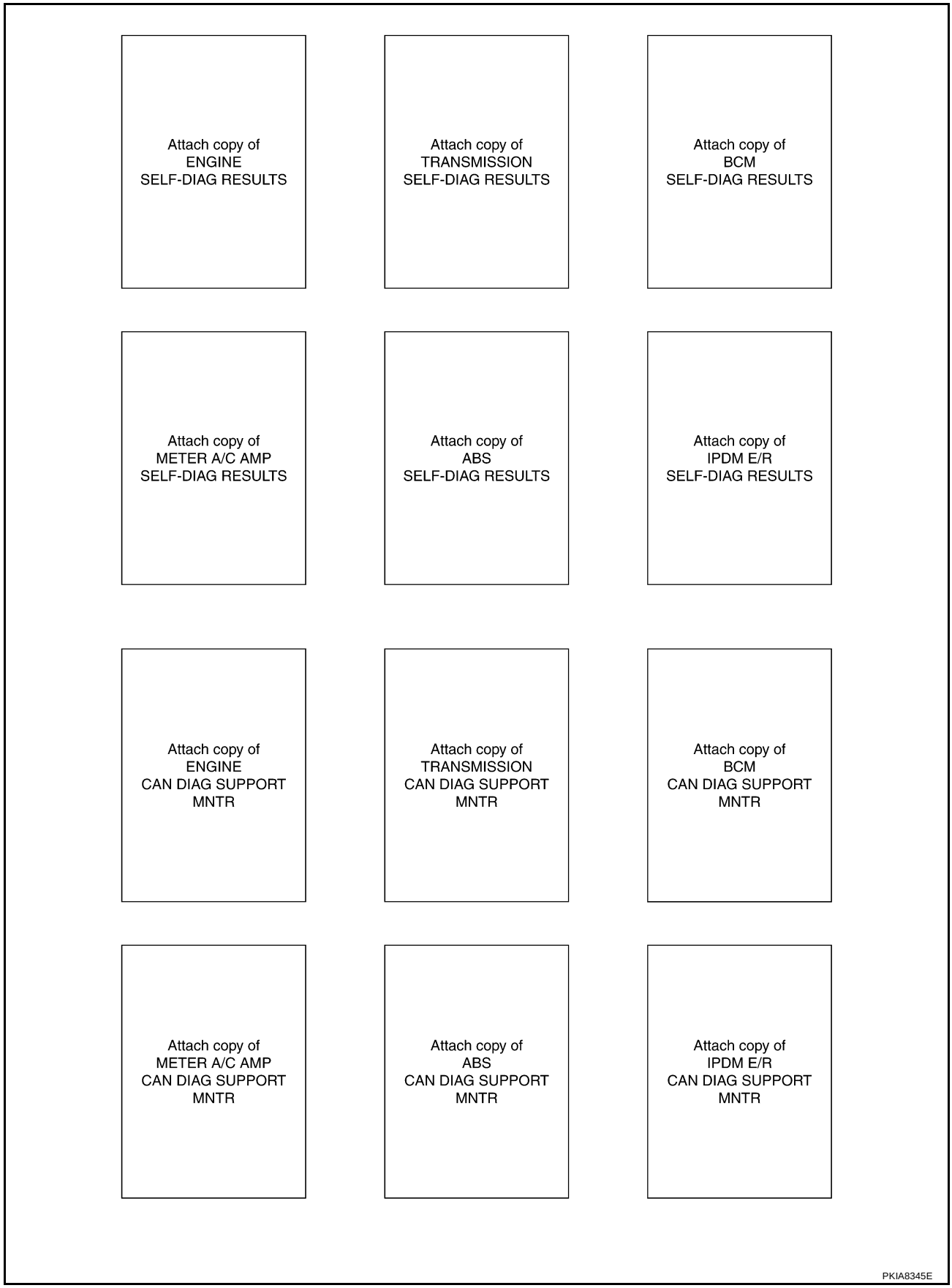
Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	—
CAN CIRC 2	BCM	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR Check Sheet

PKIC5335E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
TRANSMISSION
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER A/C AMP
SELF-DIAG RESULTS
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ABS
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SELF-DIAG RESULTS
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IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIA8345E

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-157, "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 /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN ✓	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN ✓	—	UNKWN ✓	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN ✓	UNKWN ✓	UNKWN ✓	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN ✓	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

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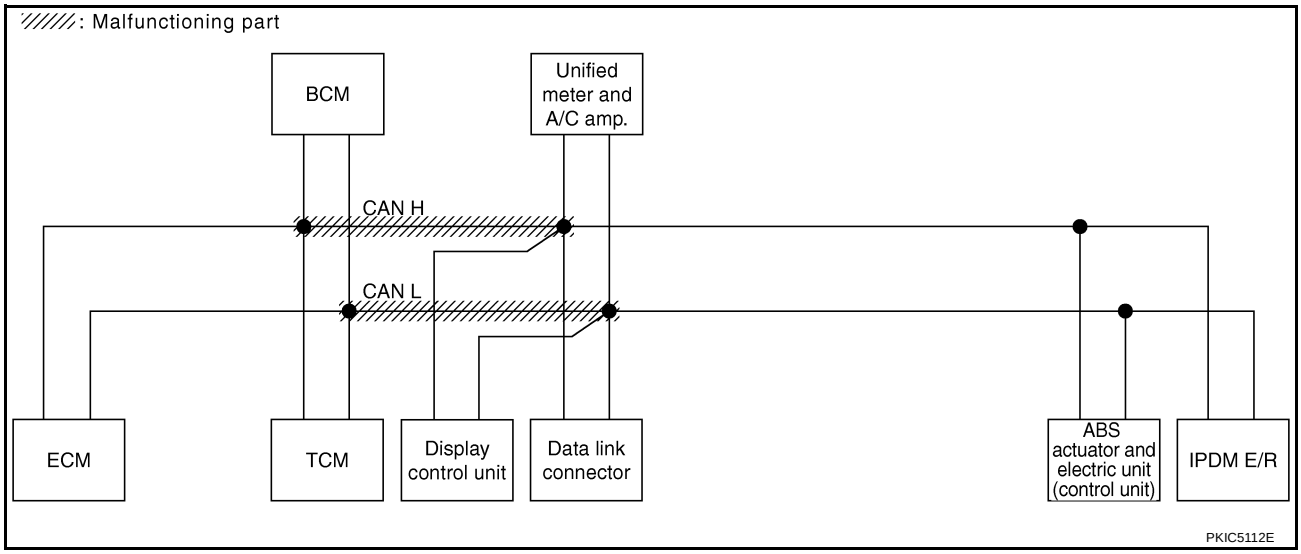
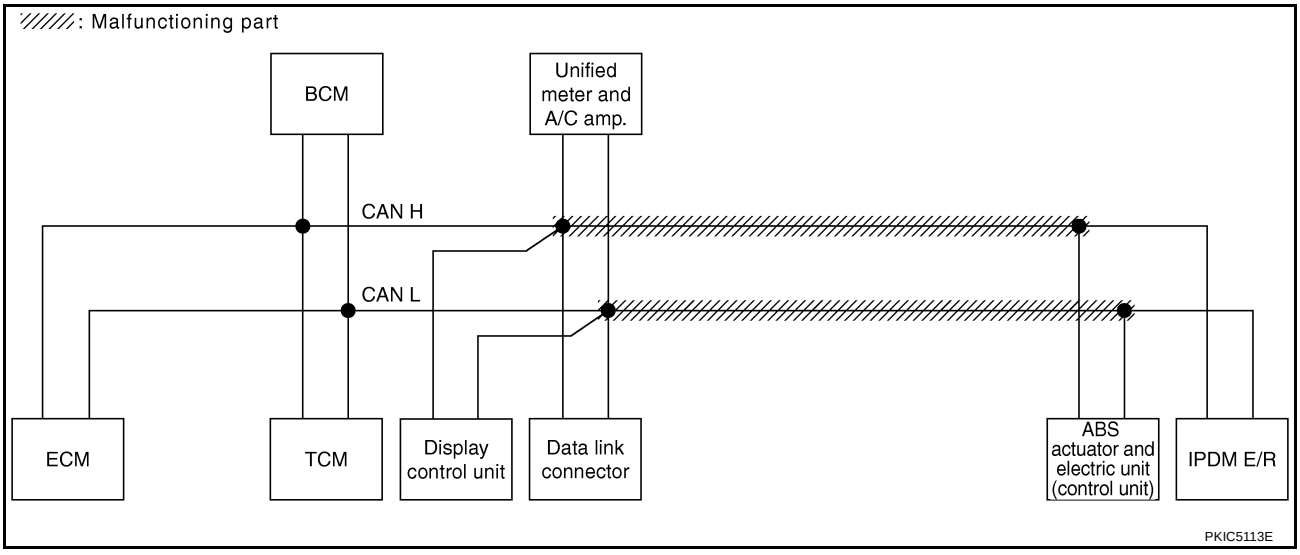


Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-159, "Inspection Between Data Link Connector 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 /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5337E

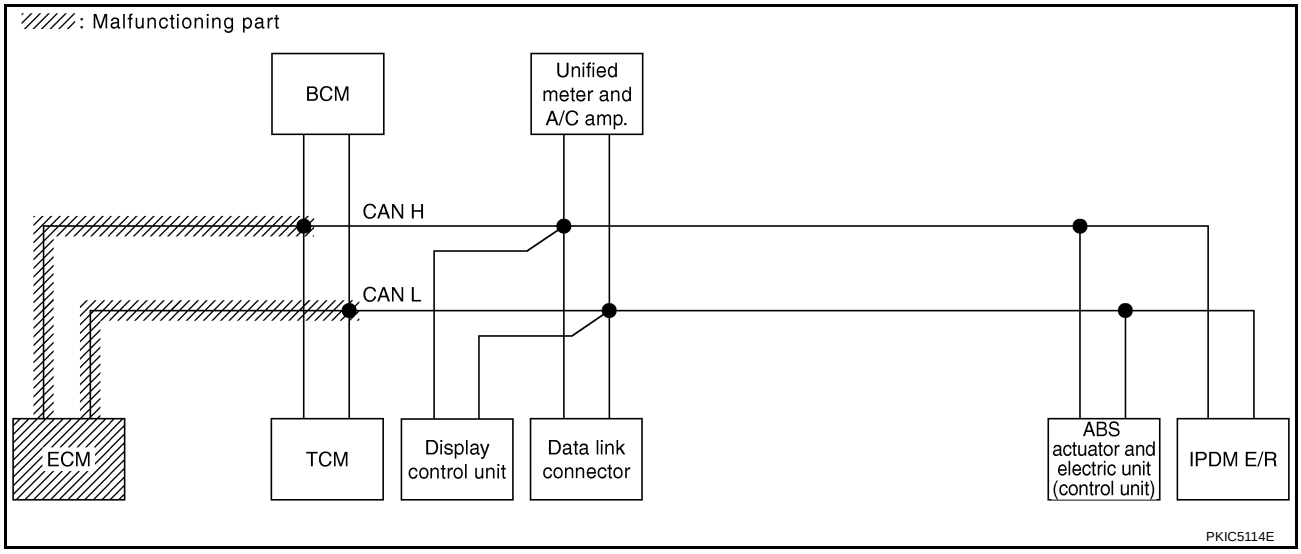


Case 3

Check ECM circuit. Refer to LAN-163, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5338E

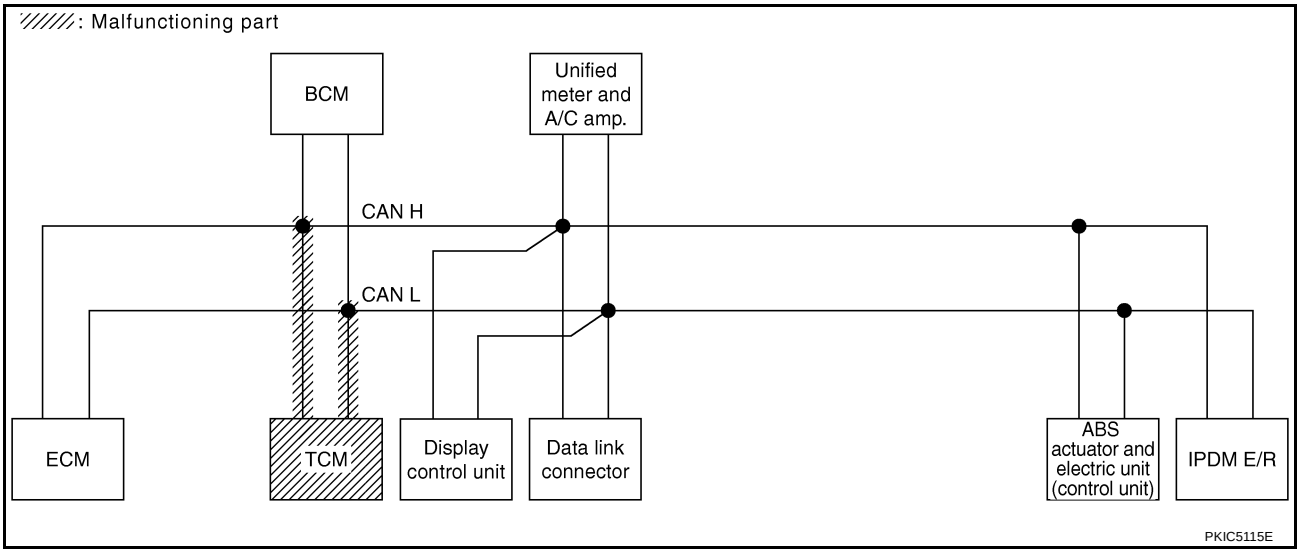


Case 4

Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5339E



Case 5

Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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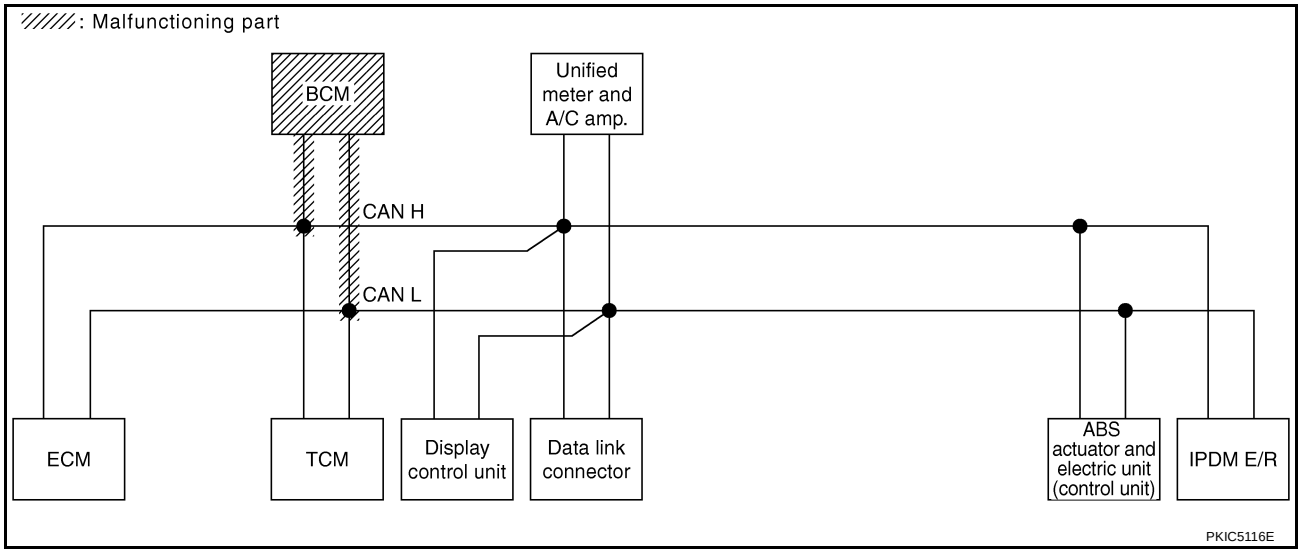

Case 6

Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	UNKWN ✓	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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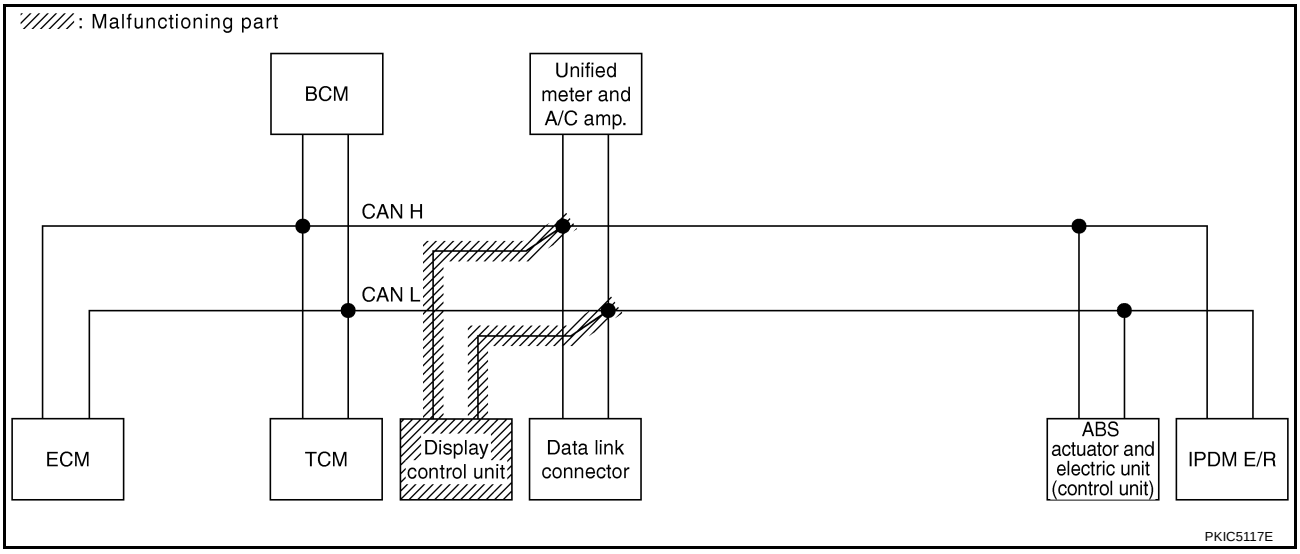
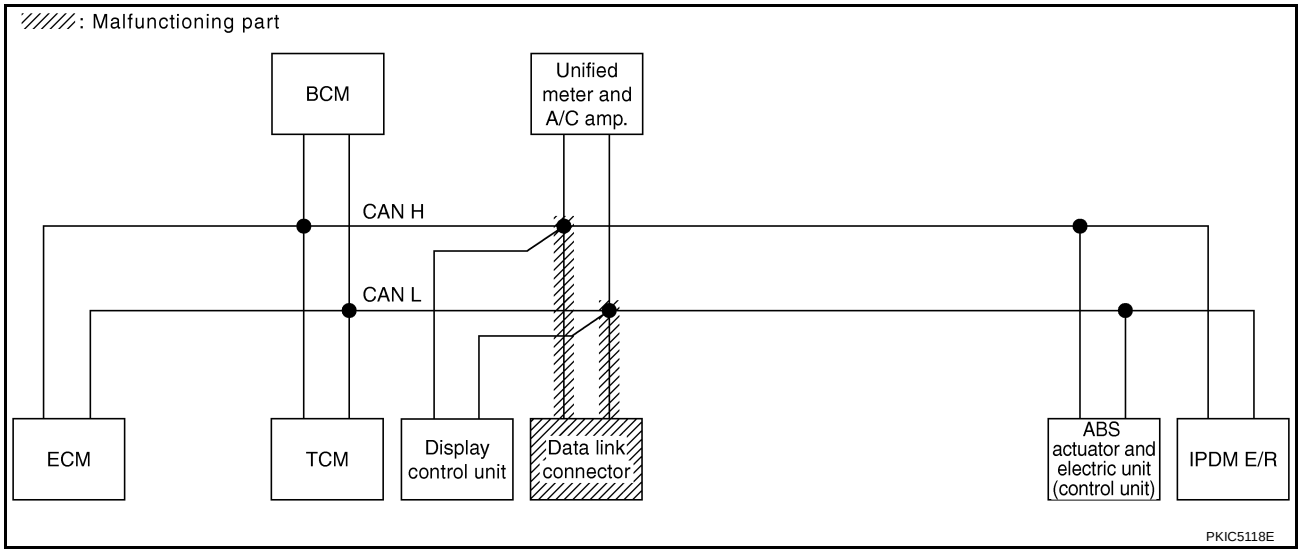


Case 7

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	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	✓ No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	✓ No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	✓ No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	✓ No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5342E

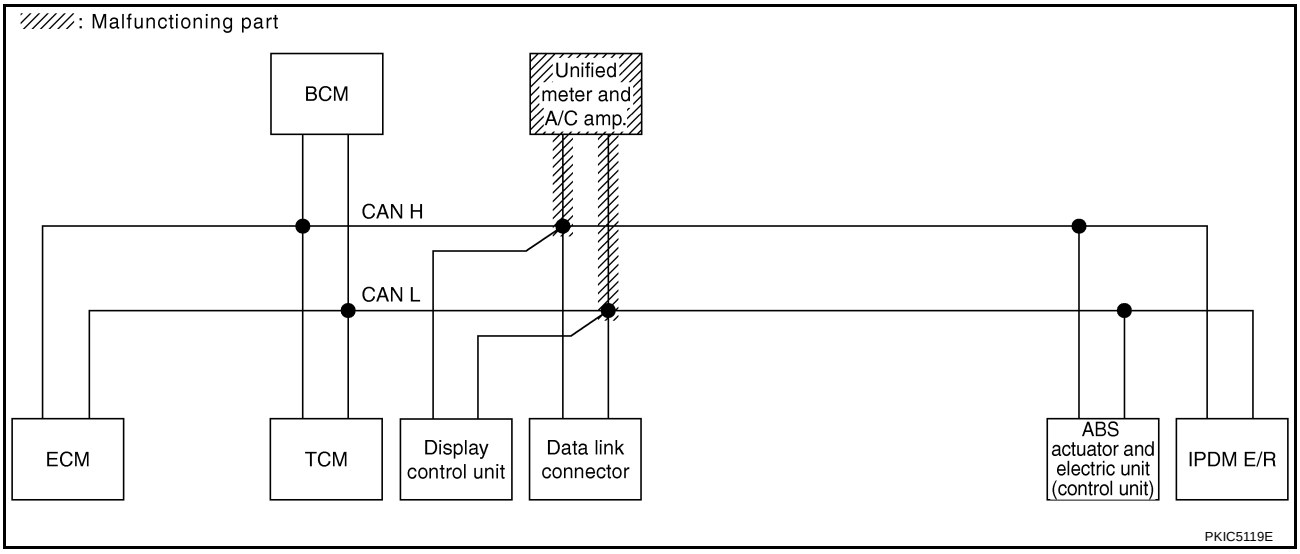


Case 8

Check unified meter and A/C amp. circuit. Refer to LAN-166, "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 /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5343E



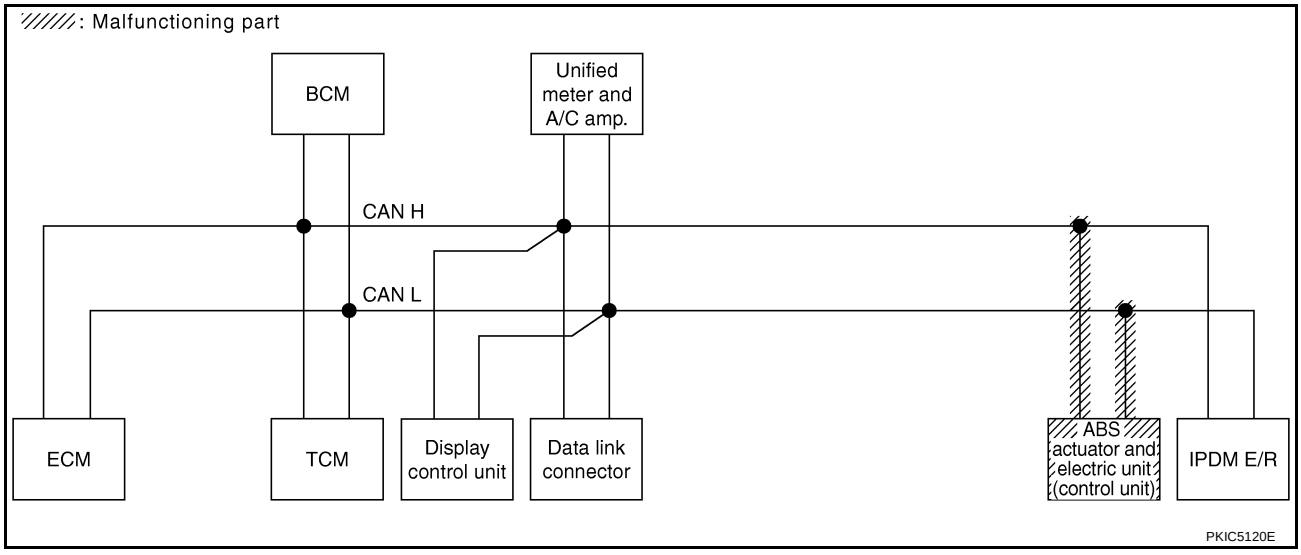
PKIC5119E

Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-168, "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 /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5344E

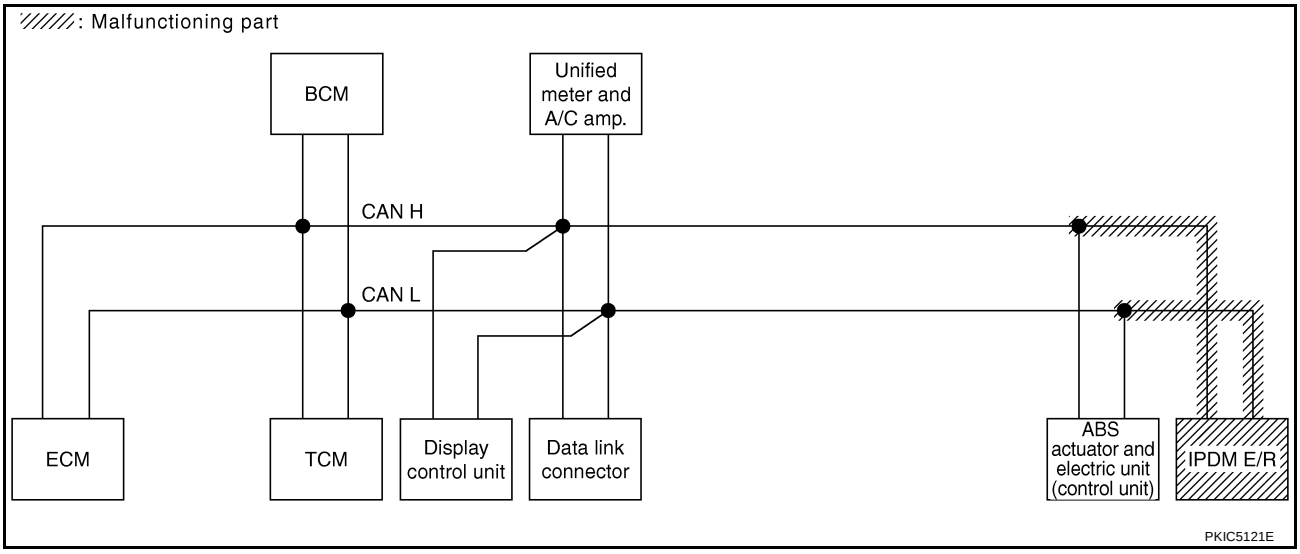


Case 10

Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5345E



Case 11

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	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5346E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-170, "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 /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5347E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-170, "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 /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5348E

CAN SYSTEM (TYPE 2)

PFP:23710

Component Parts and Harness Connector Location

NKS002KZ

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

NKS002L0

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

NKS002L1

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

NKS002L2

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

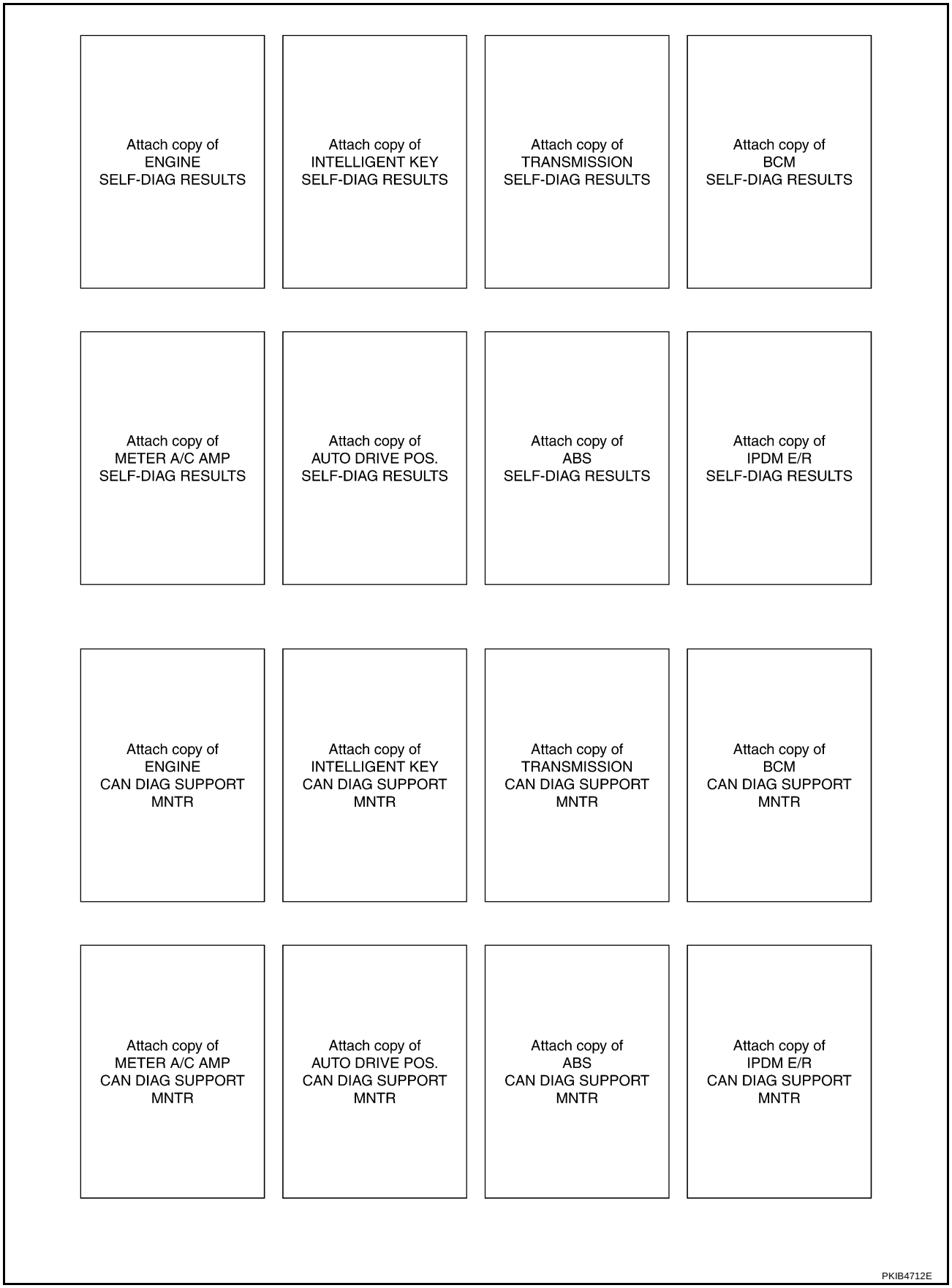
Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	—
CAN CIRC 2	BCM	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR Check Sheet

PKIC5349E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AUTO DRIVE POS.
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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-157, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	✓	—	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	✓ No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	✓ No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	✓ No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	✓ UNKWN	—	—	✓ UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	✓ UNKWN	—	✓ UNKWN	✓ UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	✓ UNKWN	✓ UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	✓ UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	✓ UNKWN	—	—	✓ UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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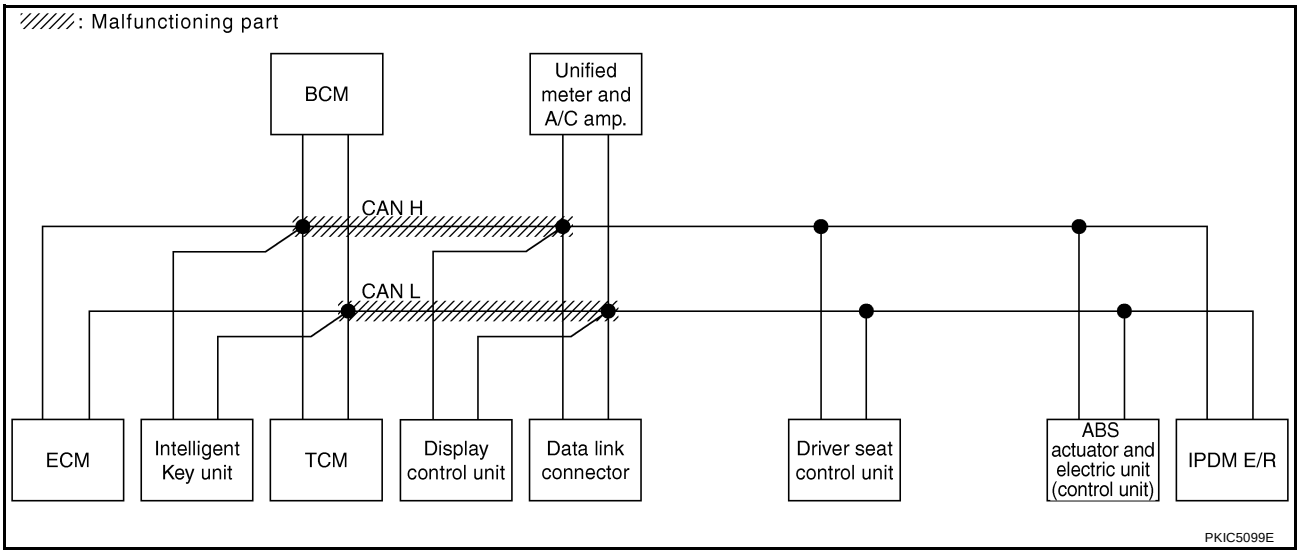

Case 2

Check harness between data link connector and driver seat control unit. Refer to LAN-157, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication ✓	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

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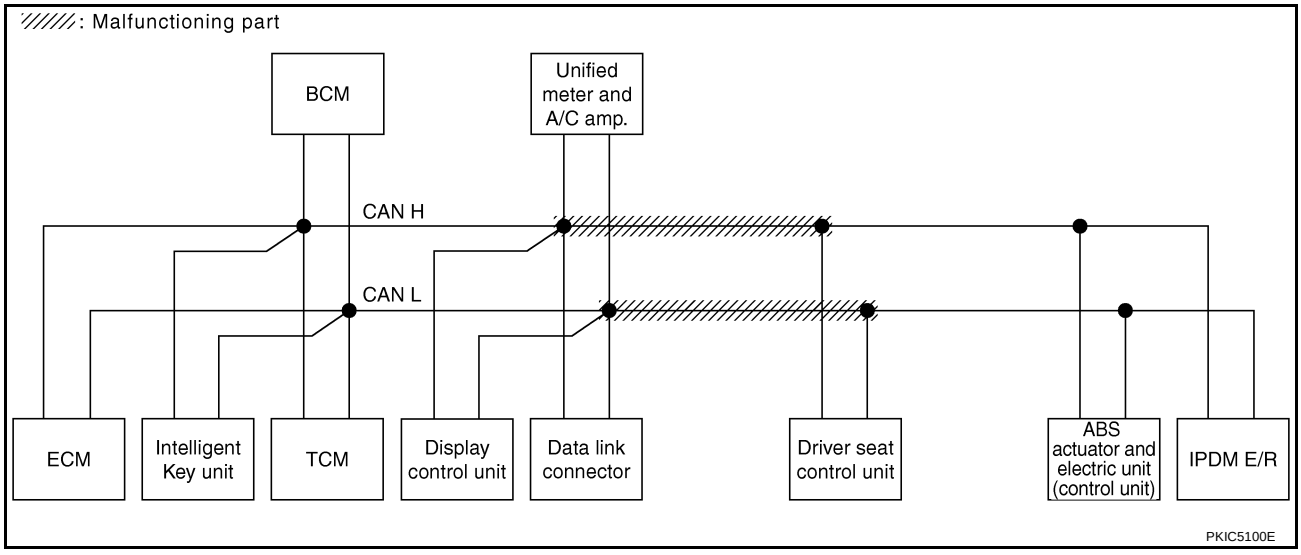

Case 3

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to LAN-162, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

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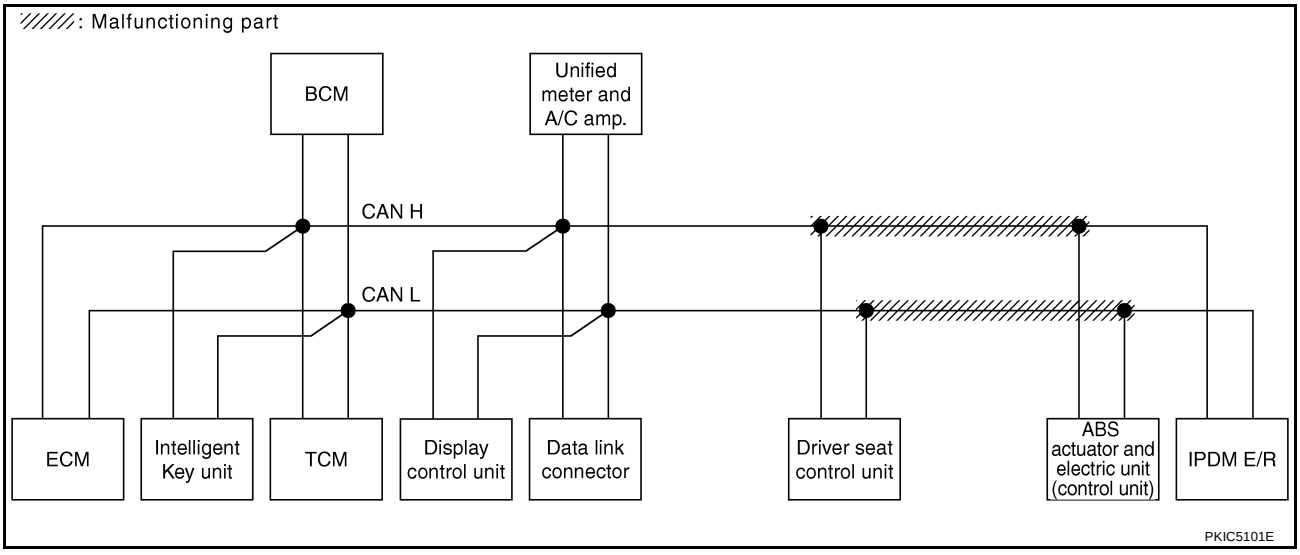

Case 4

Check ECM circuit. Refer to LAN-163, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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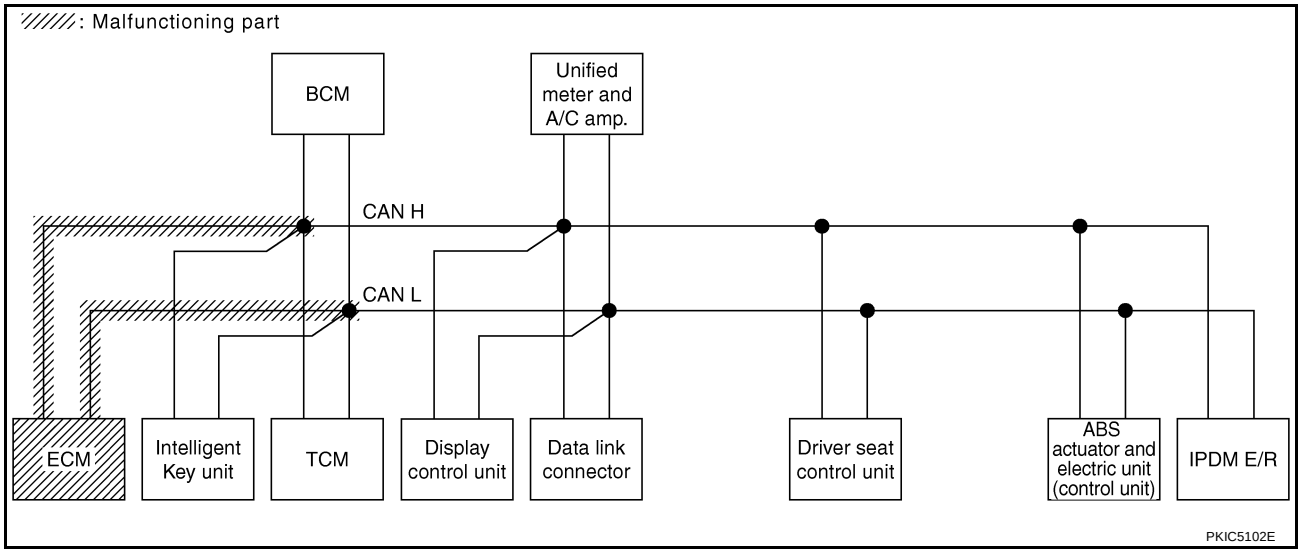

Case 5

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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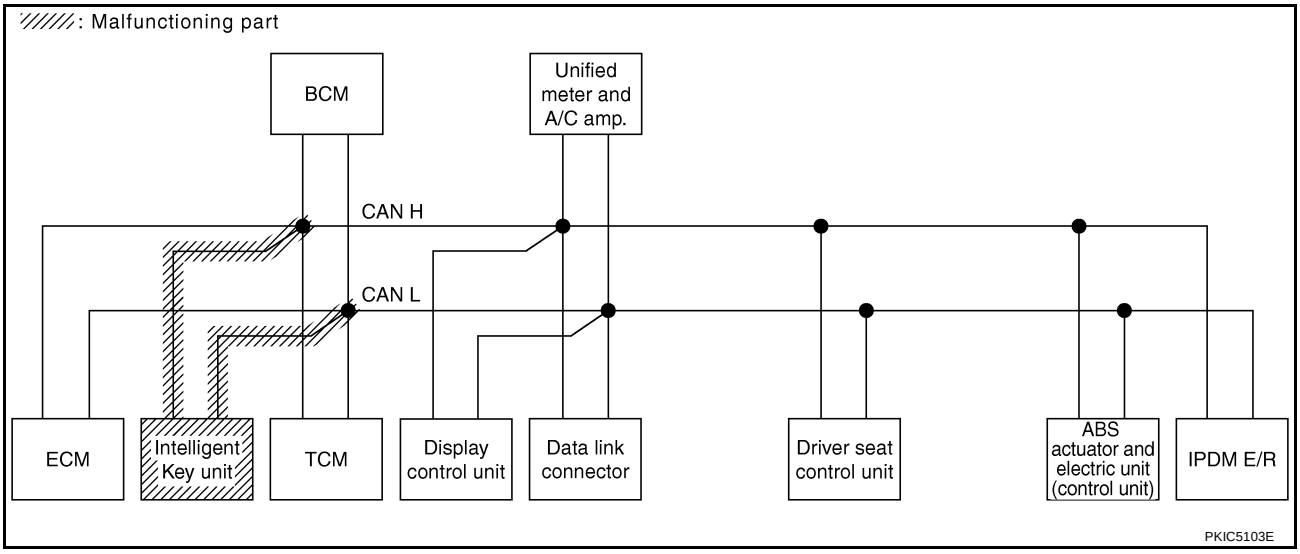

Case 6

Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN ✓	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN ✓	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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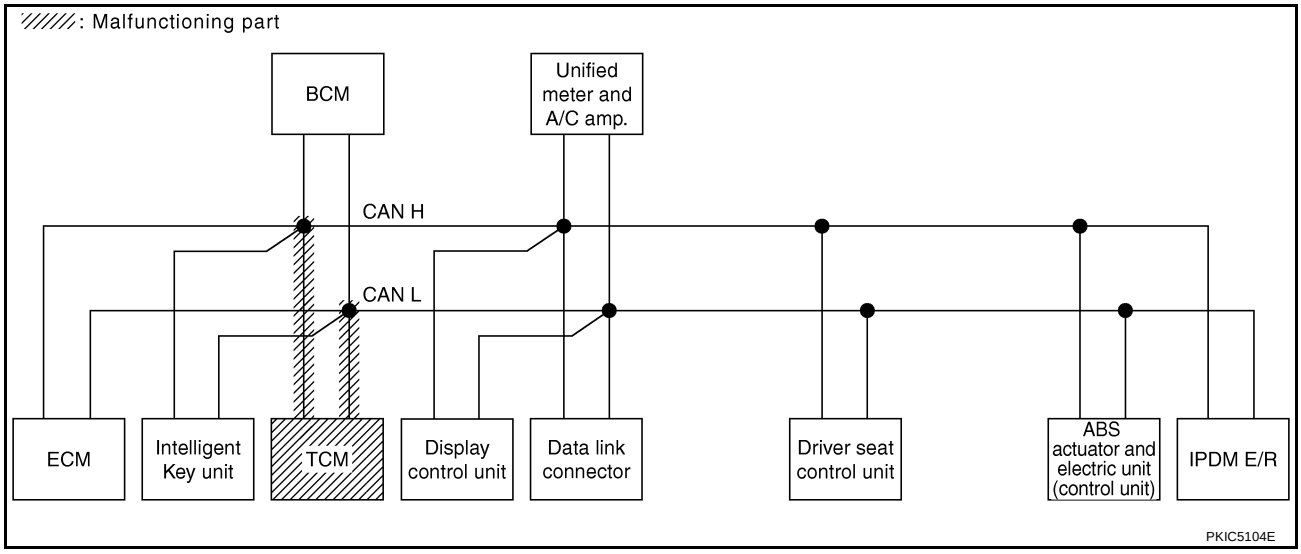

Case 7

Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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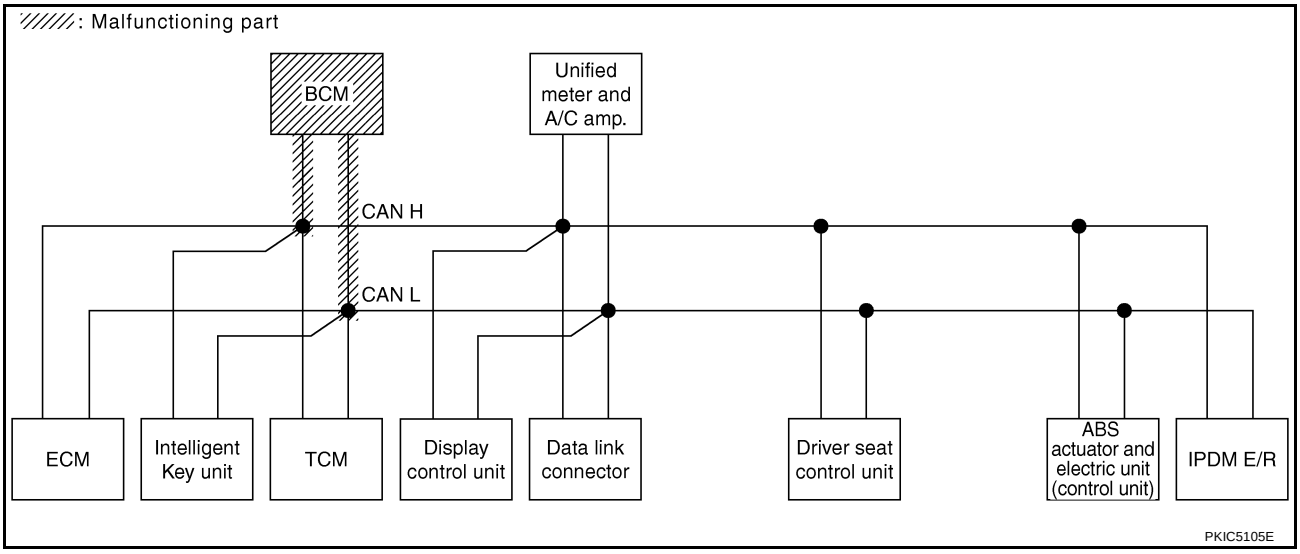

Case 8

Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	—	UNKWN ✓	—	UNKWN ✓	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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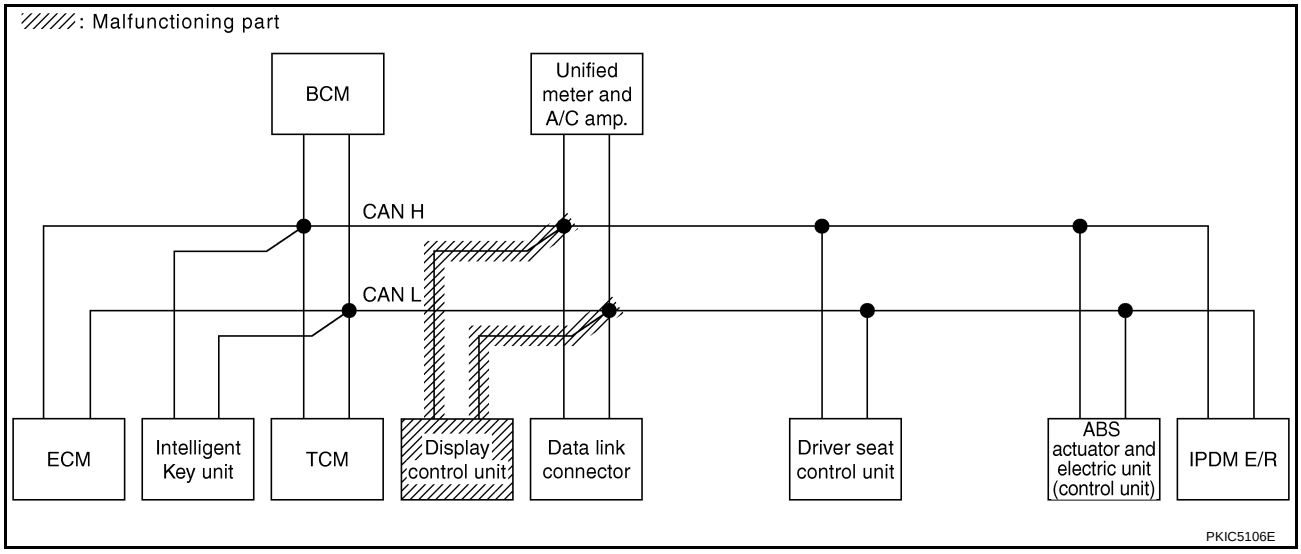

Case 9

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	✓ No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	✓ No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	✓ No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	✓ No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	✓ No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	✓ No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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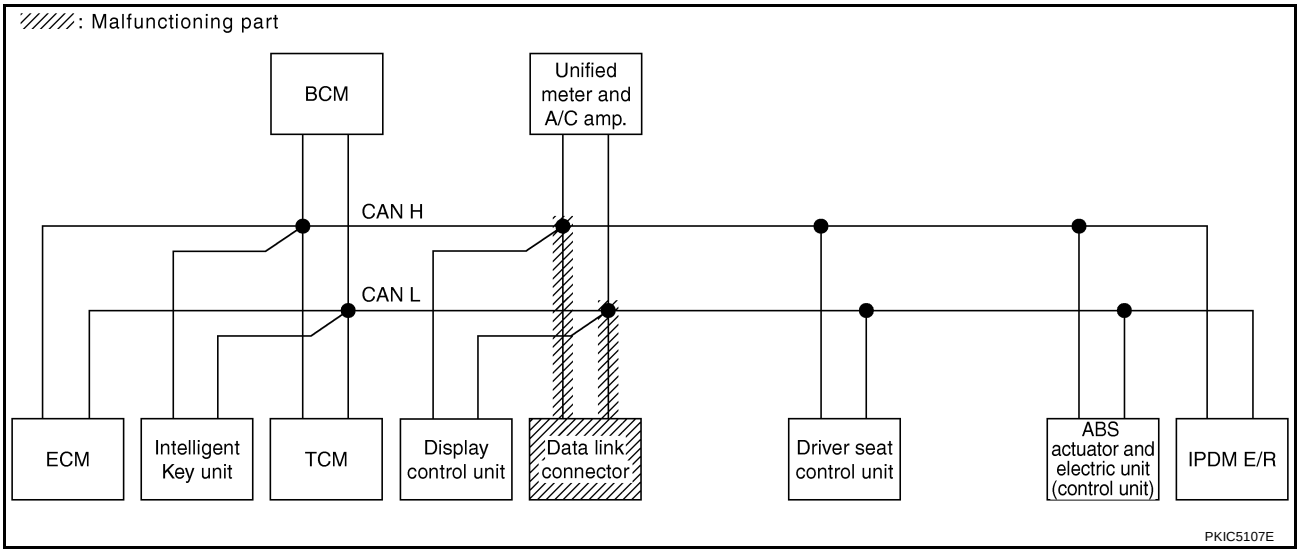

Case 10

Check unified meter and A/C amp. circuit. Refer to LAN-166, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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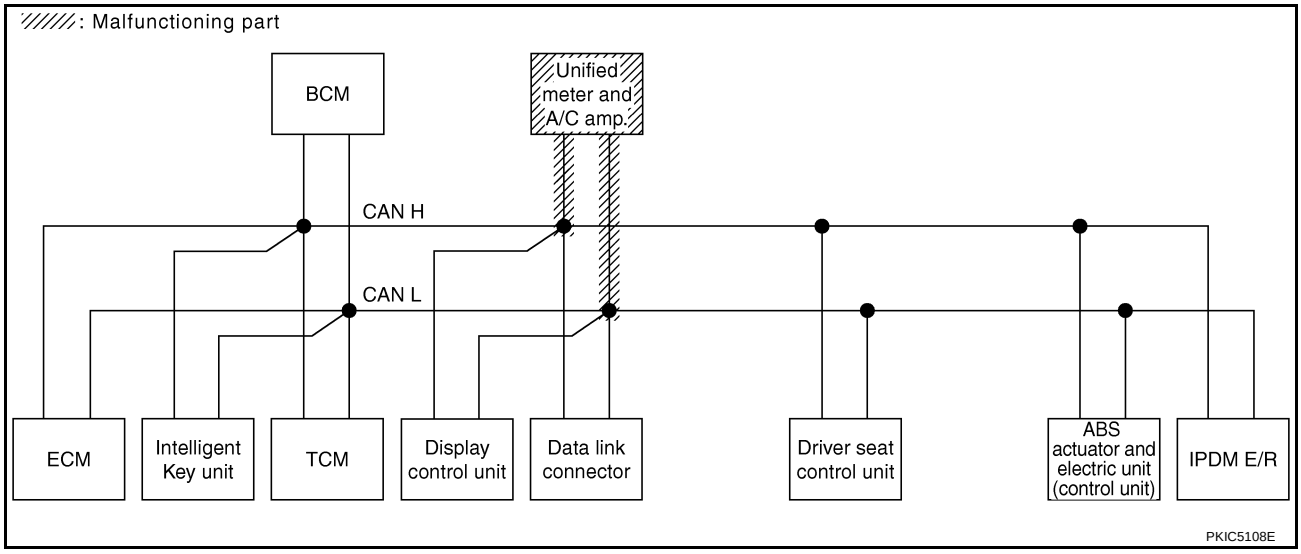

Case 11

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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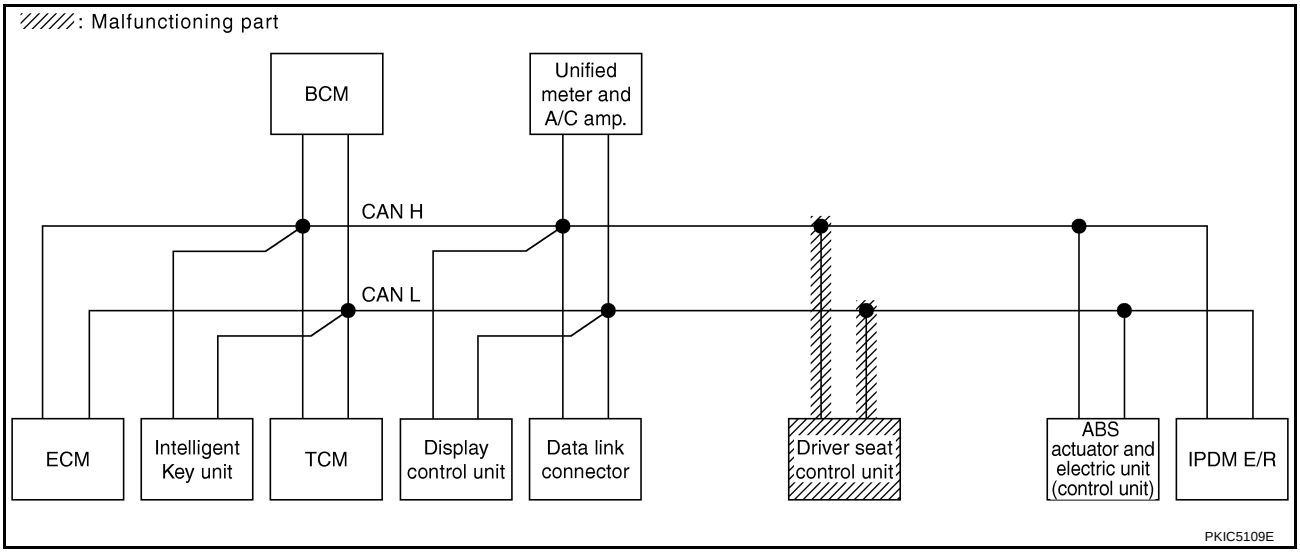

Case 12

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-168, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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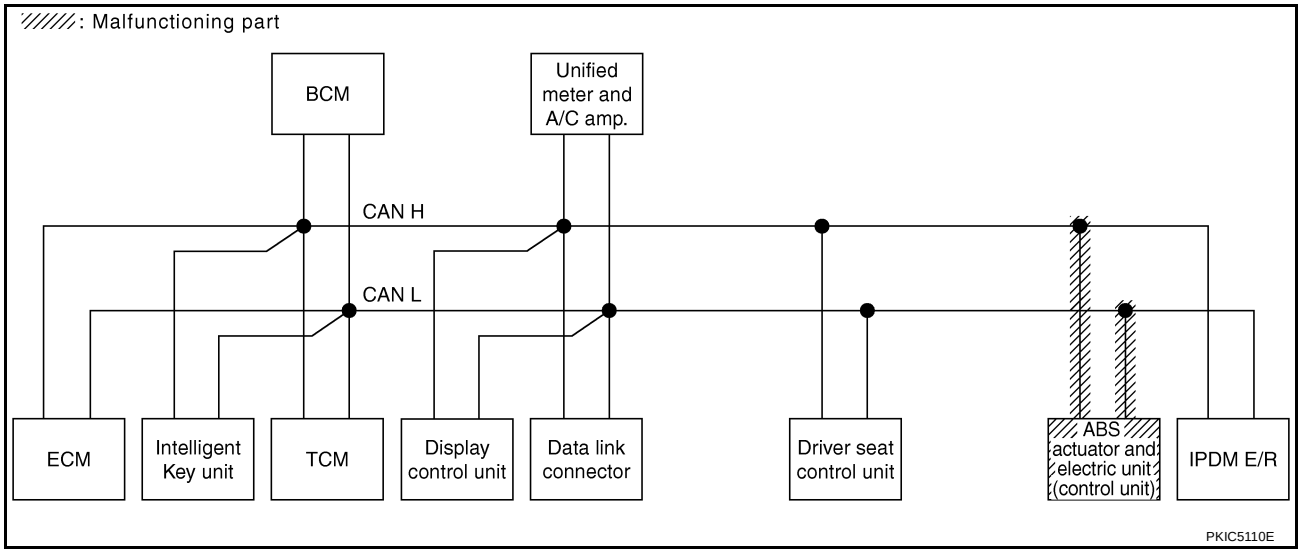

Case 13

Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

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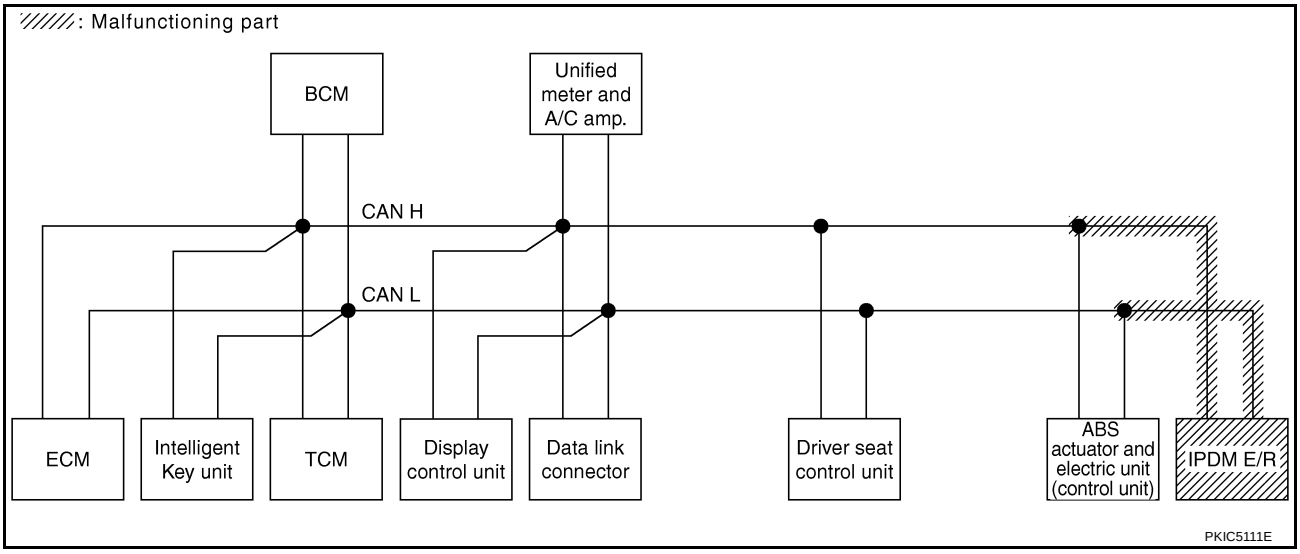


Case 14

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5363E

Case 15

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5364E

Case 16

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5365E

CAN SYSTEM (TYPE 3)

PFP:23710

Component Parts and Harness Connector Location

NKS002U4

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

NKS002U5

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

NKS002U6

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

NKS002U7

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

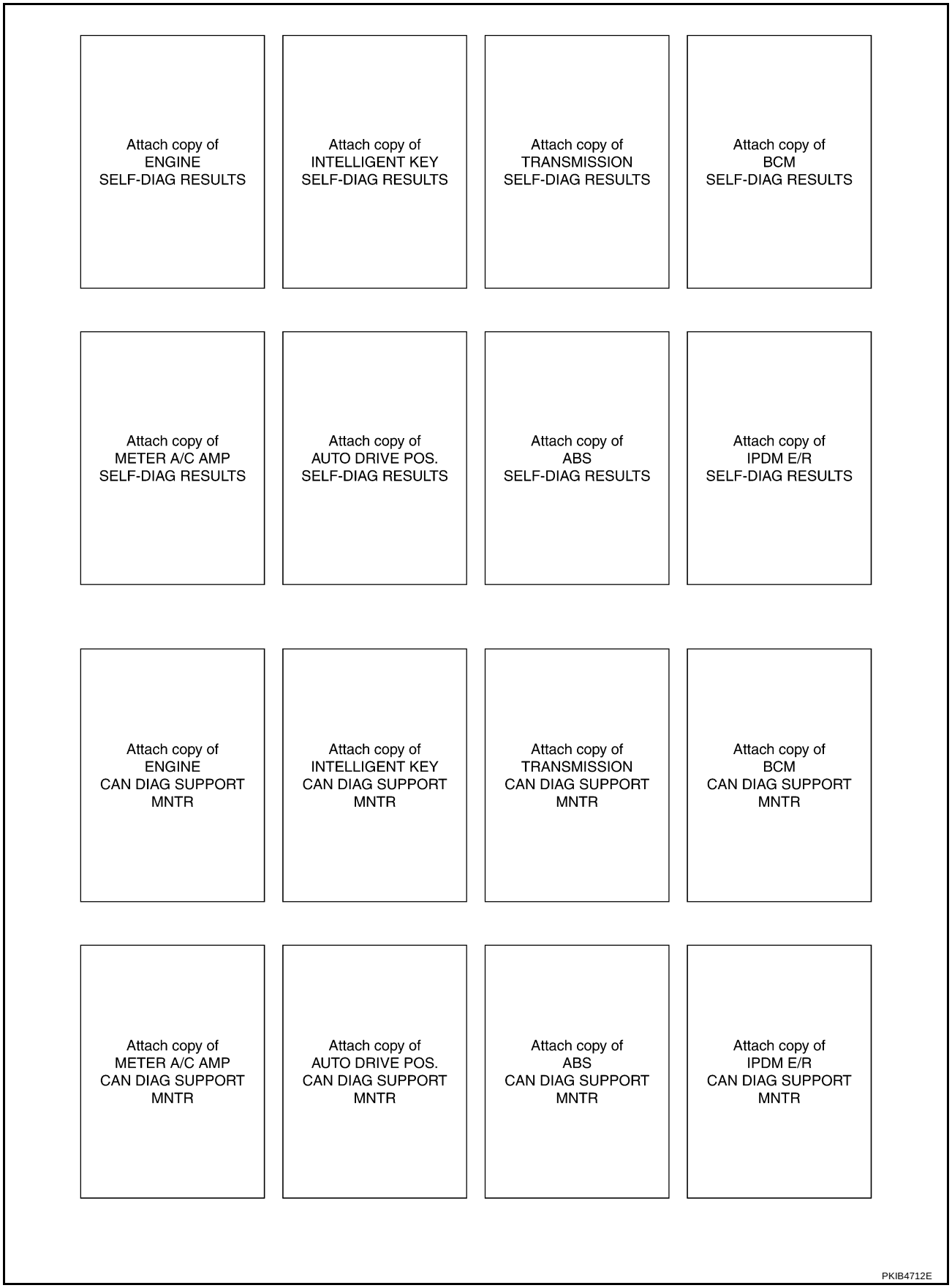
Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	—
CAN CIRC 2	BCM	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR Check Sheet

PKIC5366E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS
Attach copy of
TRANSMISSION
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER A/C AMP
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
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR
Attach copy of
TRANSMISSION
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
METER A/C AMP
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
PKIB4712E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

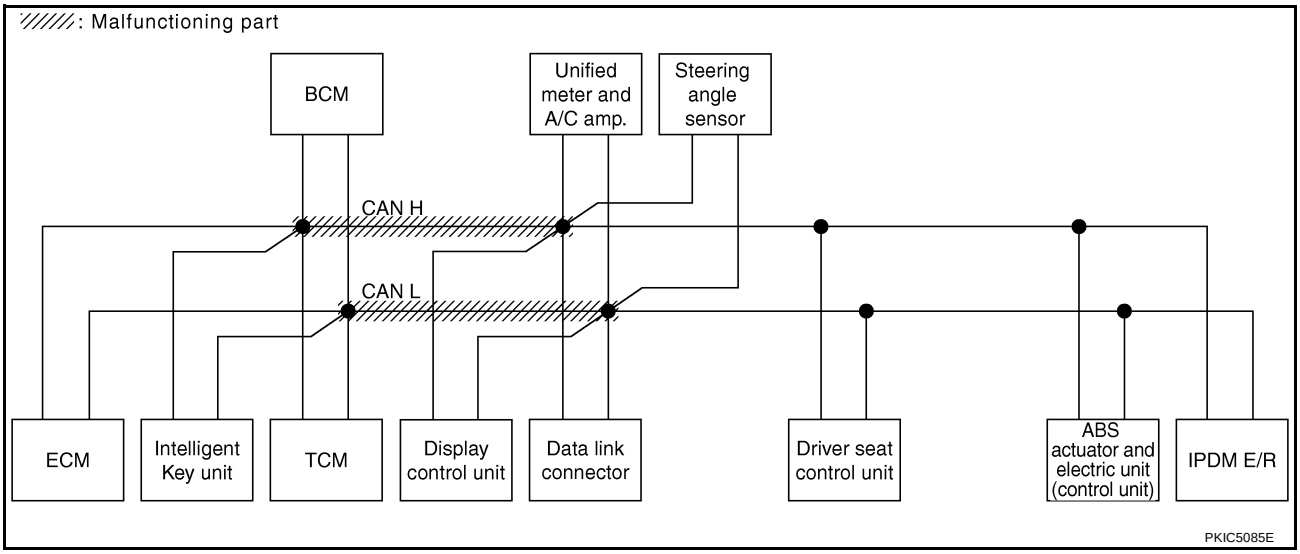
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to LAN-157, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U1000) / CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓ / —
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓ / —
BCM	No indication ✓	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓ / —
Display control unit	—	NG	UNKWN	UNKWN ✓	—	—	UNKWN ✓	—	UNKWN	—	—	UNKWN	— / —
METER A/C AMP	No indication	—	UNKWN	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓ / —
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN ✓	UNKWN ✓	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓ / —
ABS	—	NG	UNKWN	UNKWN ✓	—	UNKWN ✓	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓ / —
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	—	UNKWN ✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓ / —

PKIC5367E



Case 2

Check harness between data link connector and driver seat control unit. Refer to LAN-157, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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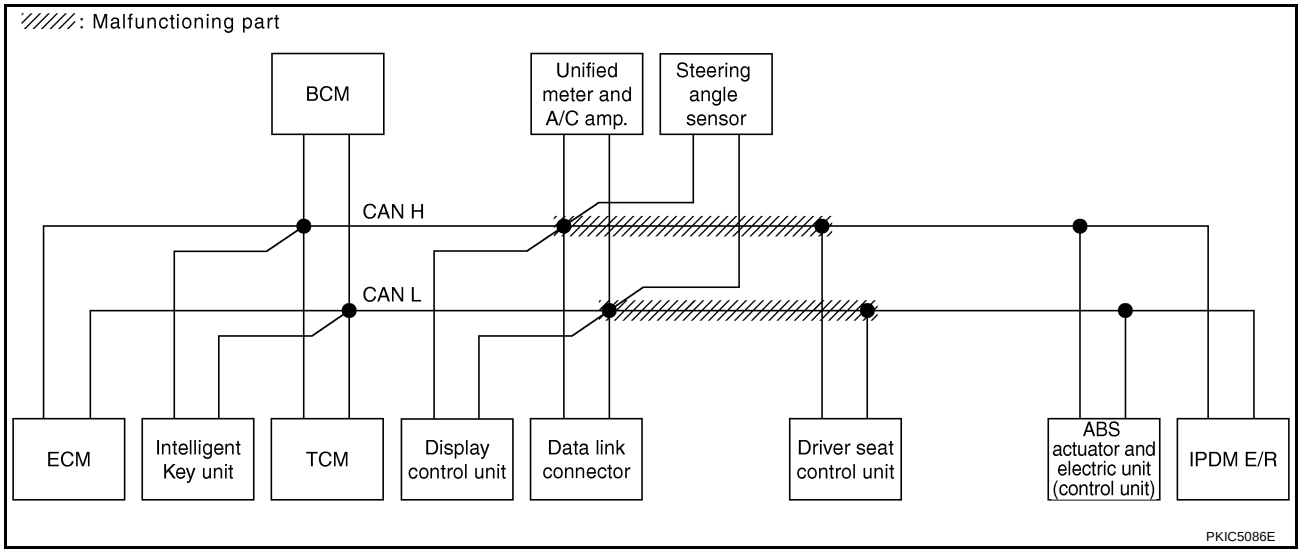
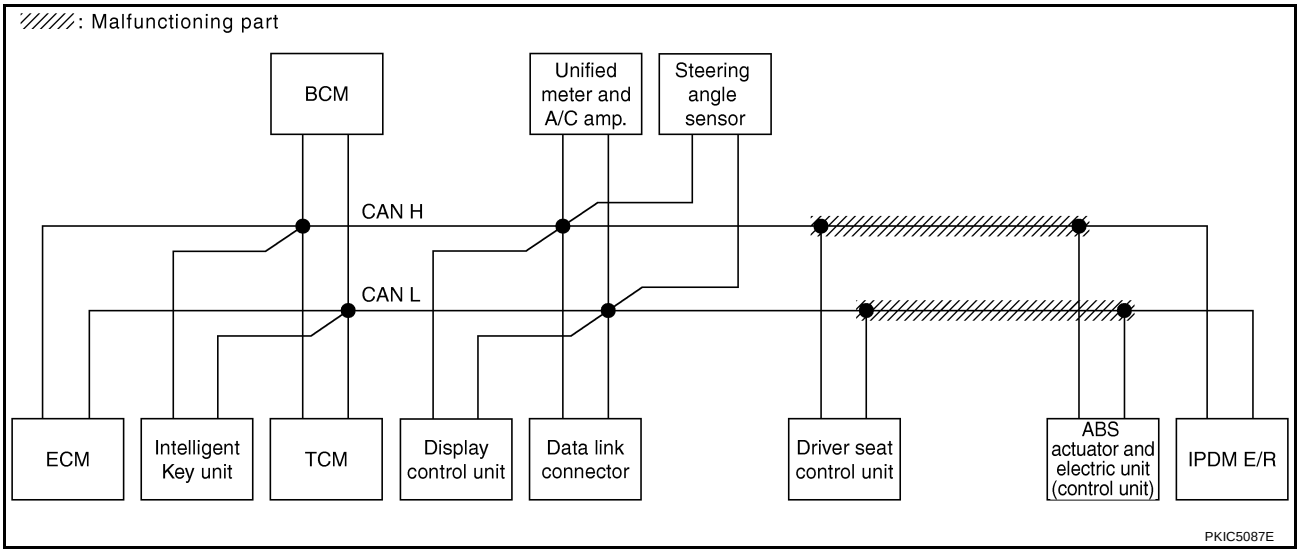


Case 3

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to LAN-162, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) / CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) / —
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) / —
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) / —
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	— / —
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) / —
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) / —
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) / —
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) / —

PKIC5369E

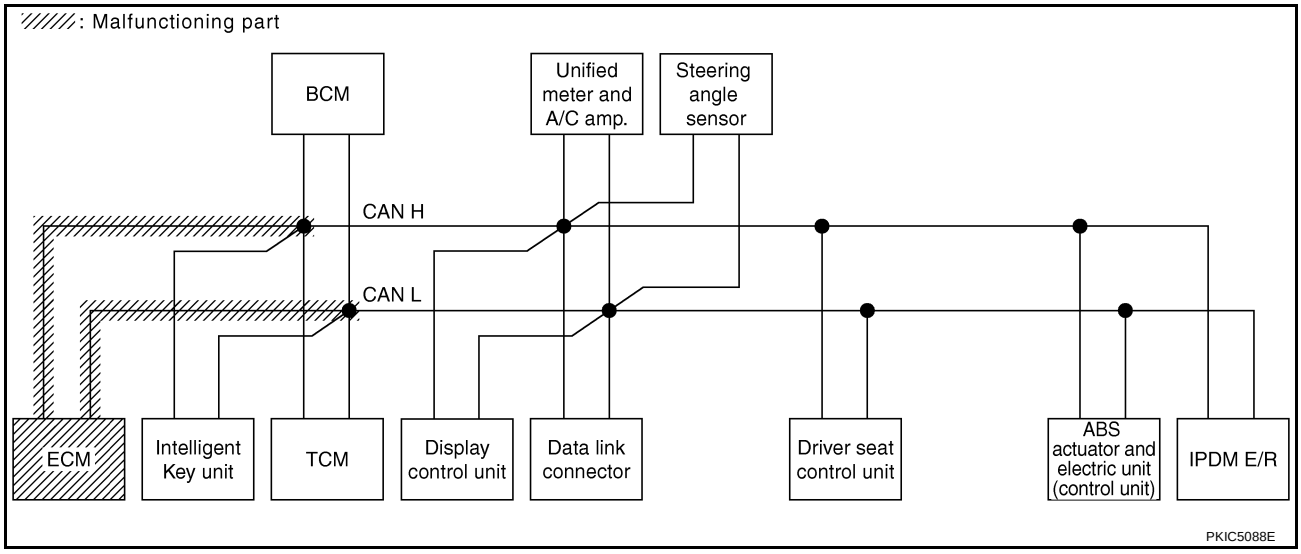


Case 4

Check ECM circuit. Refer to LAN-163, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN ✓	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN ✓	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN ✓	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN ✓	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC5370E



Case 5

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN ✓	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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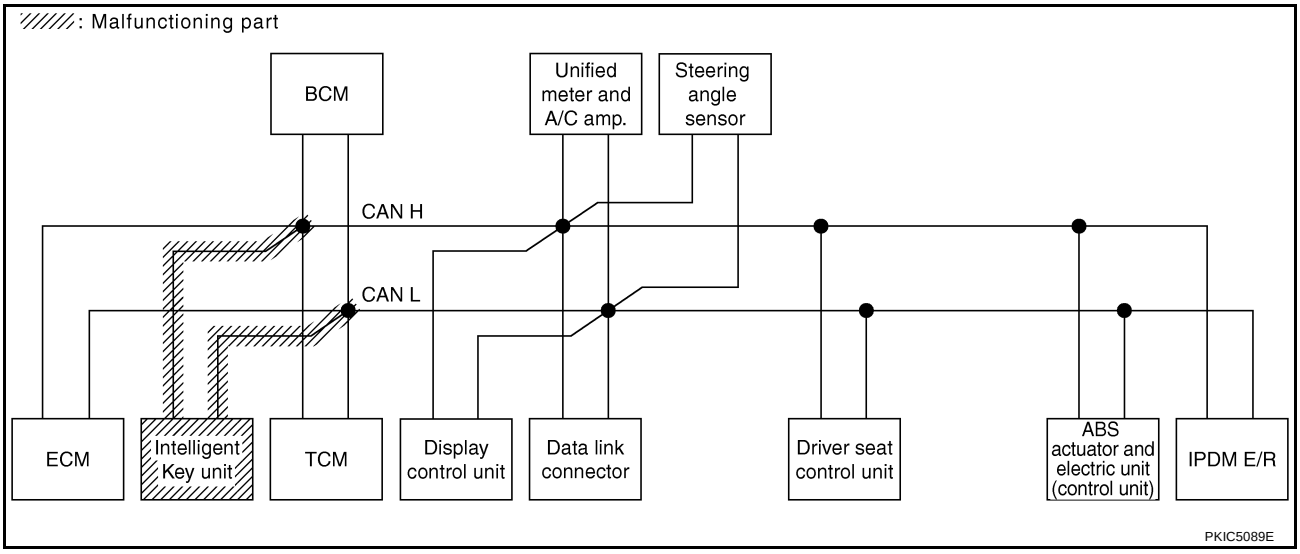

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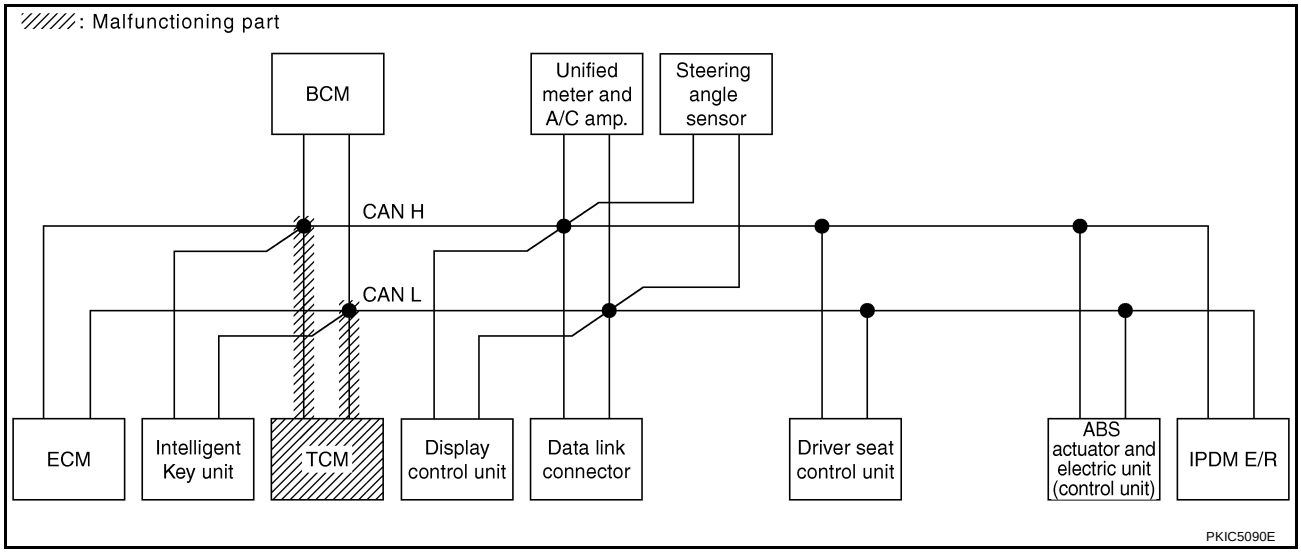
Case 6

Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN ✓	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN ✓	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN ✓	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5372E

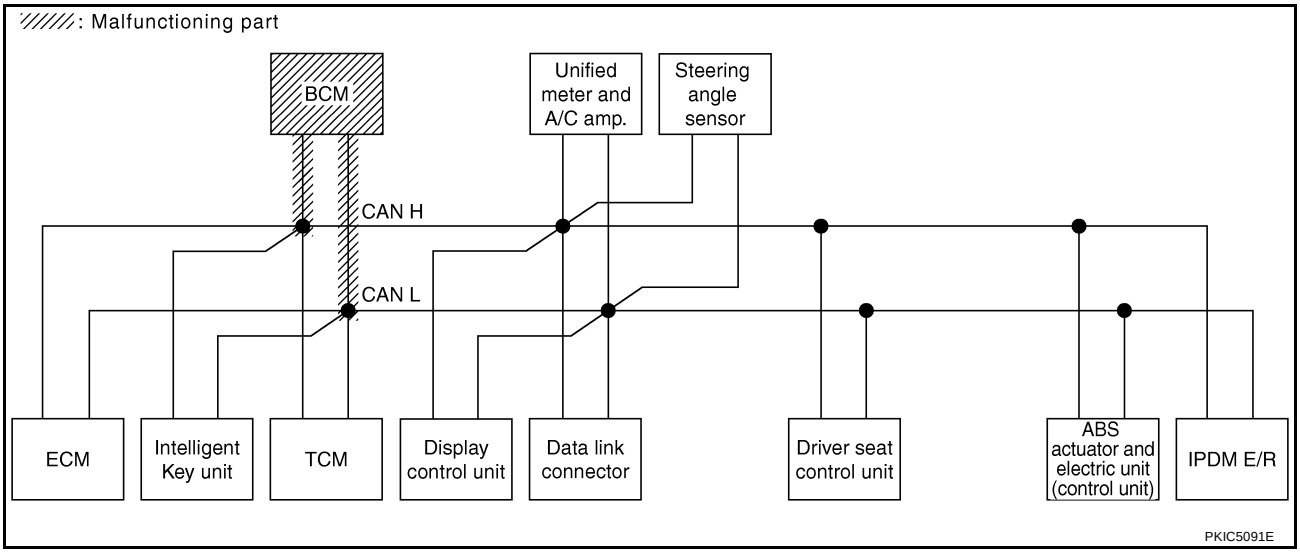


Case 7

Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN ✓	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN ✓	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN ✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC5373E

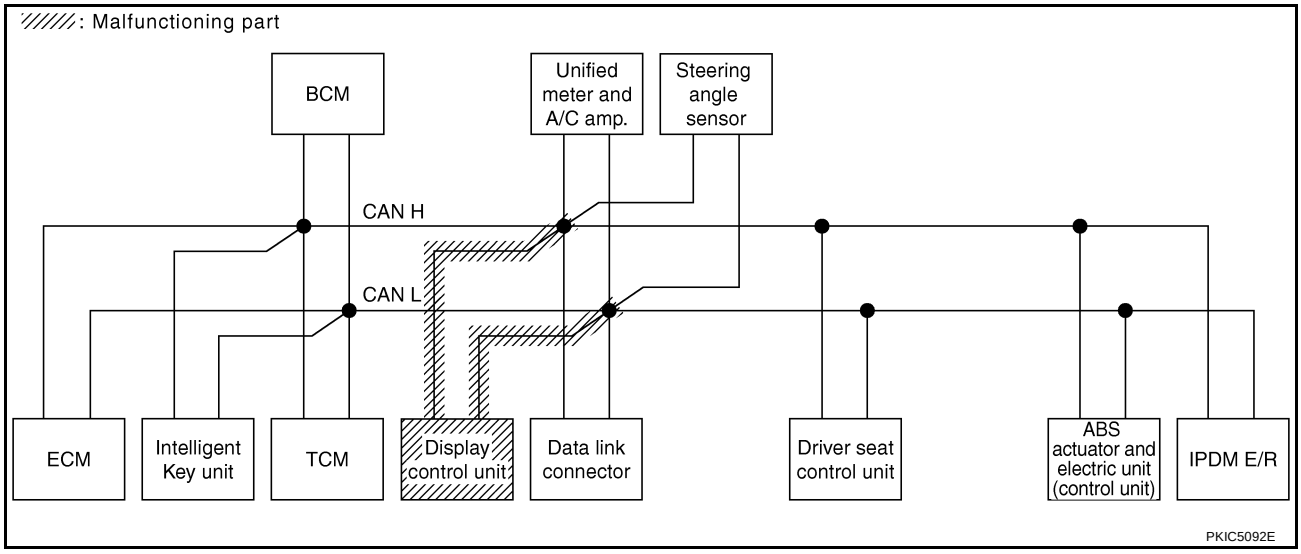


Case 8

Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	—	UNKWN ✓	—	UNKWN ✓	—	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN ✓	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5374E

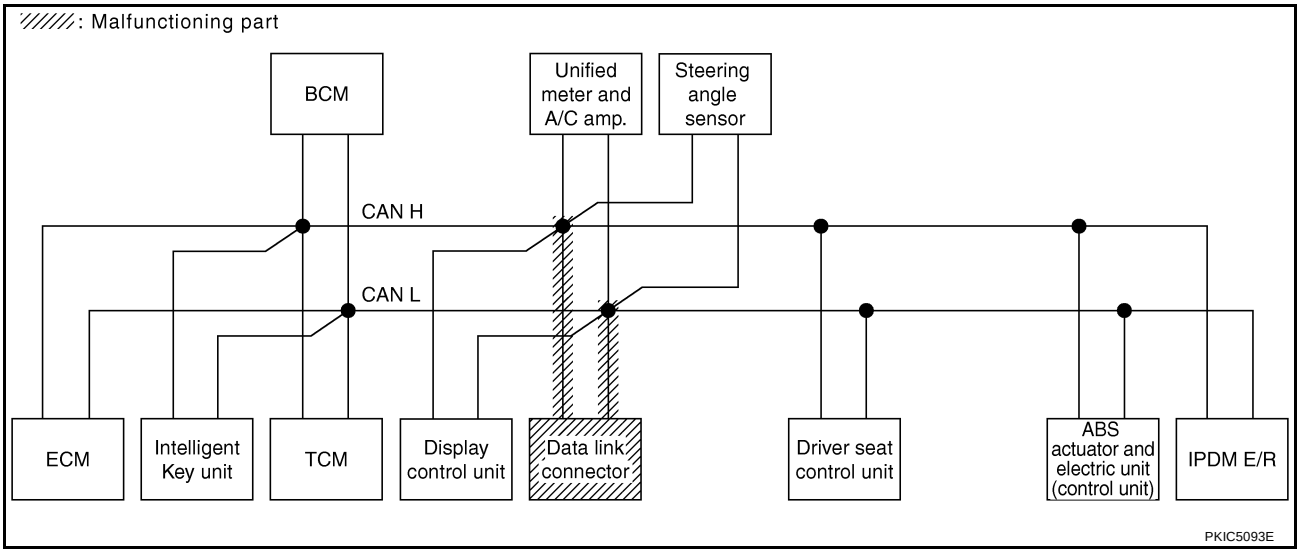


Case 9

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5375E

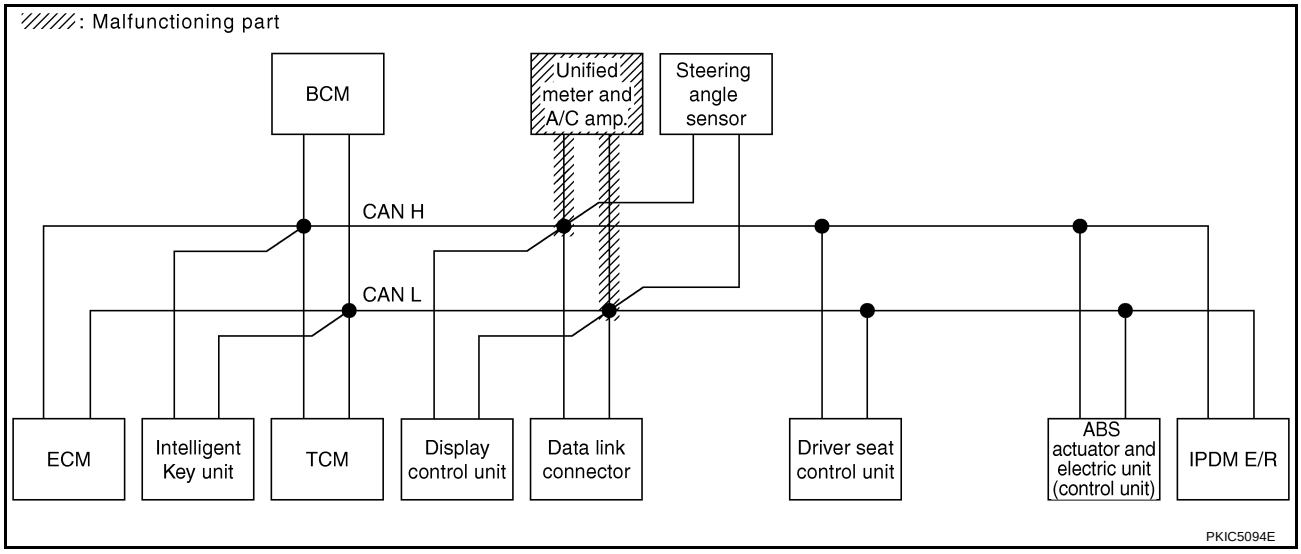


Case 10

Check unified meter and A/C amp. circuit. Refer to LAN-166, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5376E

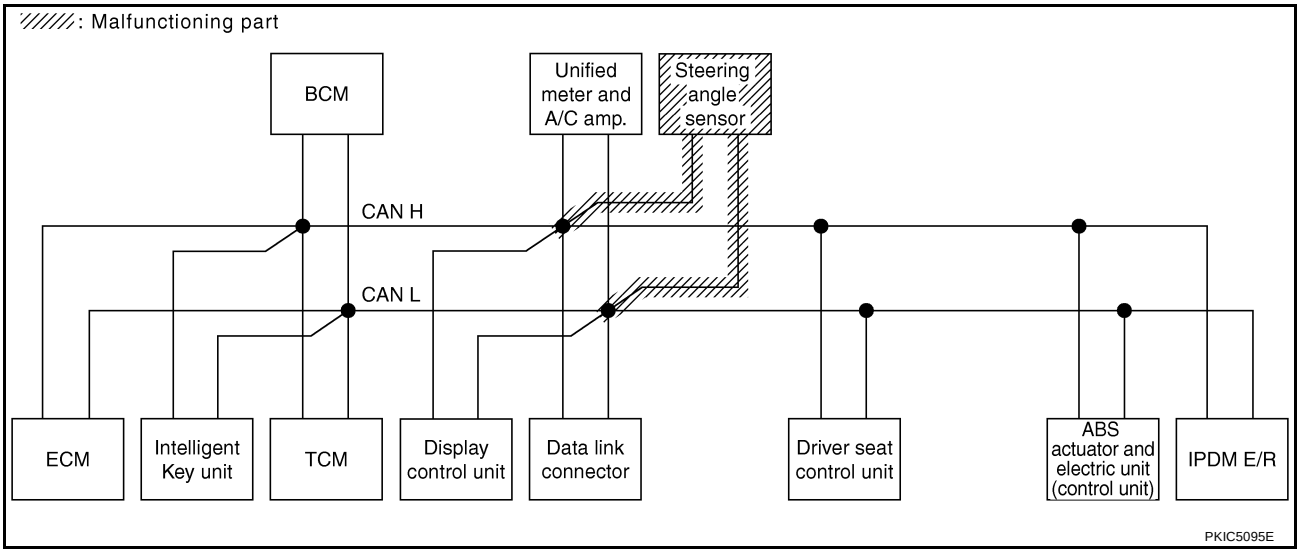


Case 11

Check steering angle sensor circuit. Refer to LAN-167, "Steering Angle Sensor Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5377E



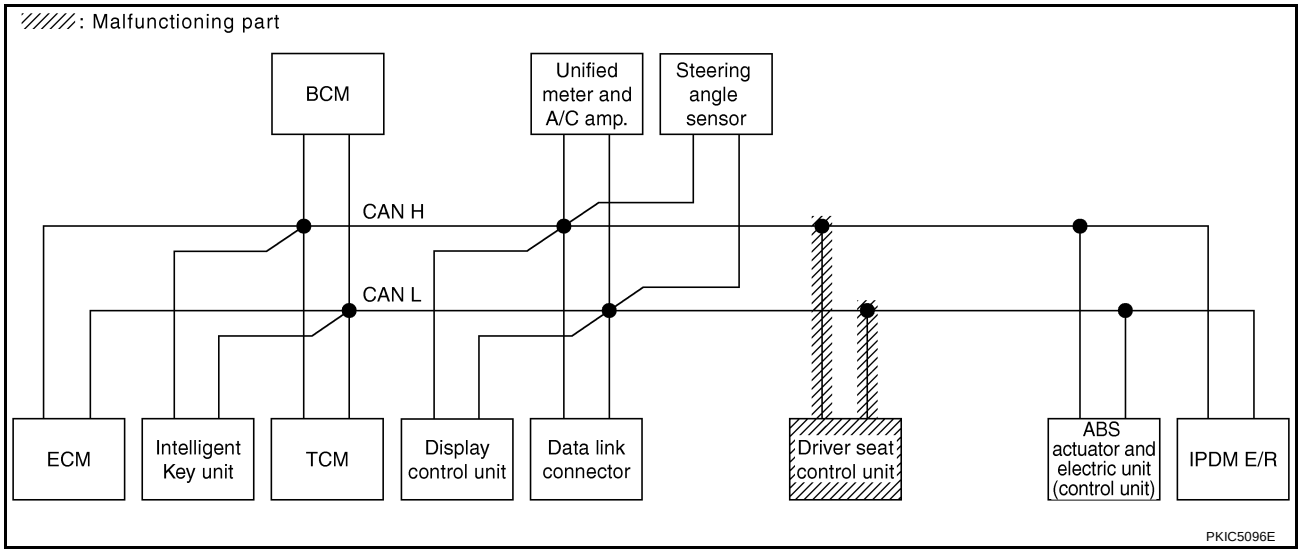
PKIC5095E

Case 12

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5378E

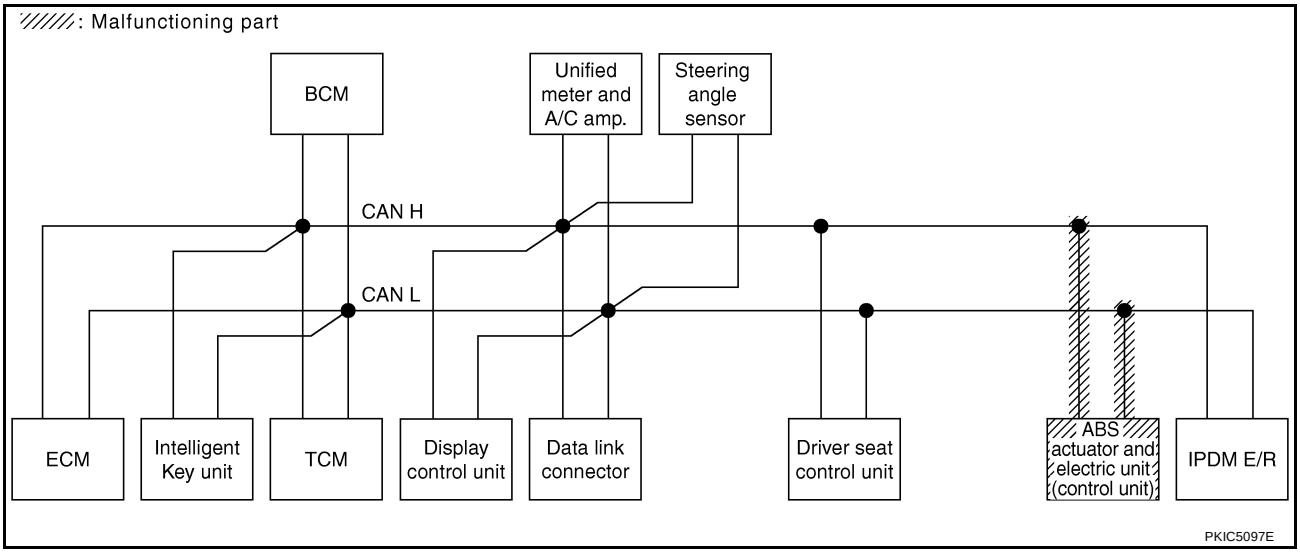


Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-168, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5379E

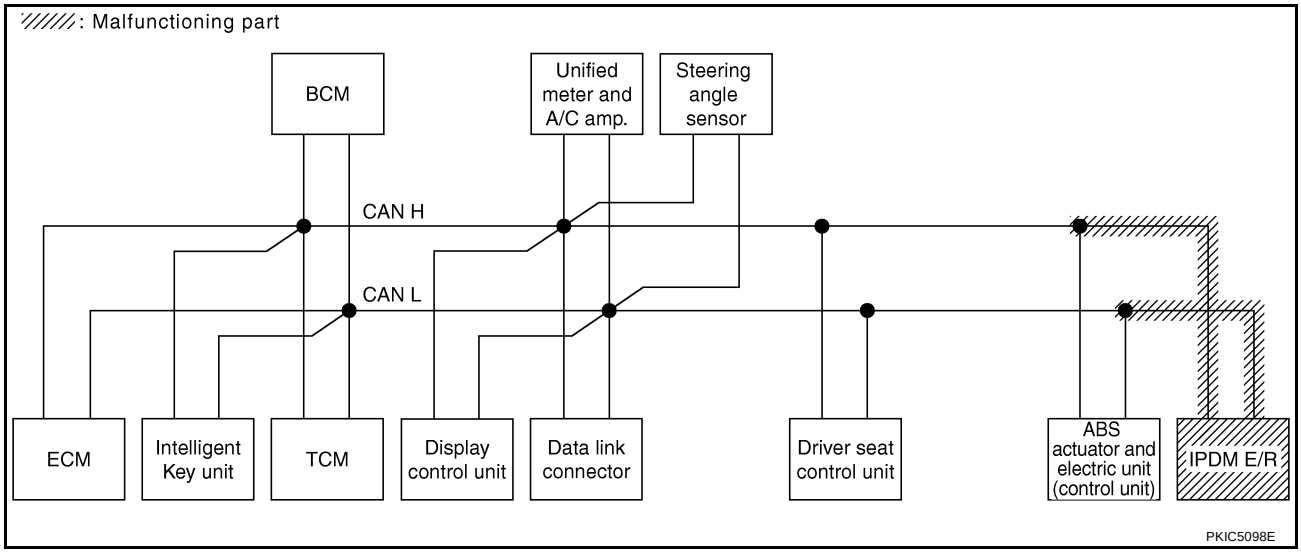


Case 14

Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC5380E



Case 15

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) / CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) / —
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) / —
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) / —
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	— / —
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) / —
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) / —
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) / —
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) / —

PKIC5381E

Case 16

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) / CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) / —
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) / —
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) / —
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	— / —
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) / —
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) / —
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) / —
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) / —

PKIC5382E

Case 17

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5383E

CAN SYSTEM (TYPE 4)

PFP:23710

Component Parts and Harness Connector Location

NKS002U8

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

NKS002U9

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

NKS002UA

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

NKS002UB

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 /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	—
CAN CIRC 2	BCM	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR Check Sheet

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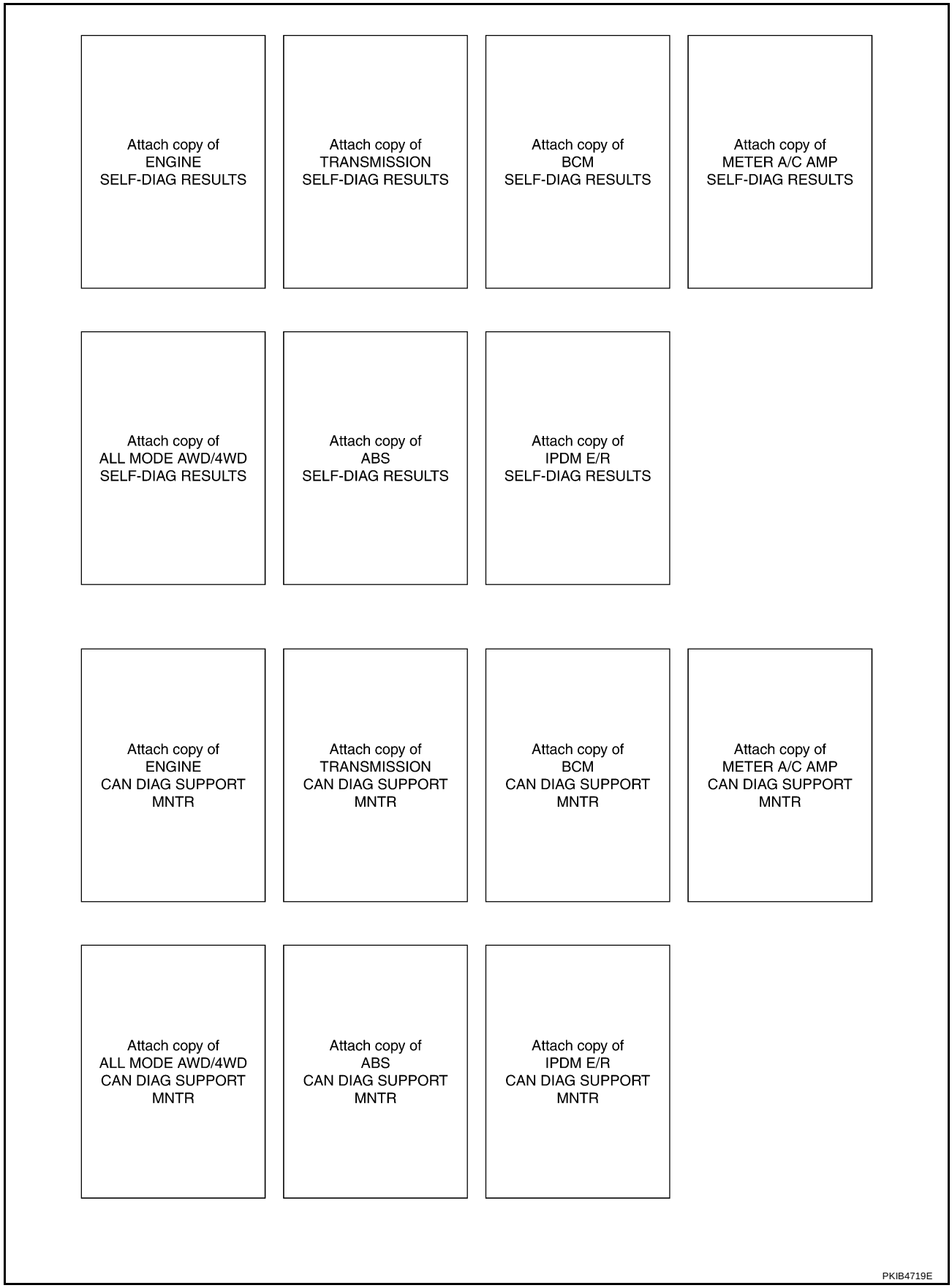
Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
TRANSMISSION
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER A/C AMP
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS
Attach copy of
ABS
SELF-DIAG RESULTS
Attach copy of
IPDM E/R
SELF-DIAG RESULTS
Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
TRANSMISSION
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
METER A/C AMP
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB4719E

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-157, "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 /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN ✓	—	UNKWN ✓	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN ✓	UNKWN ✓	UNKWN ✓	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN ✓	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN ✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

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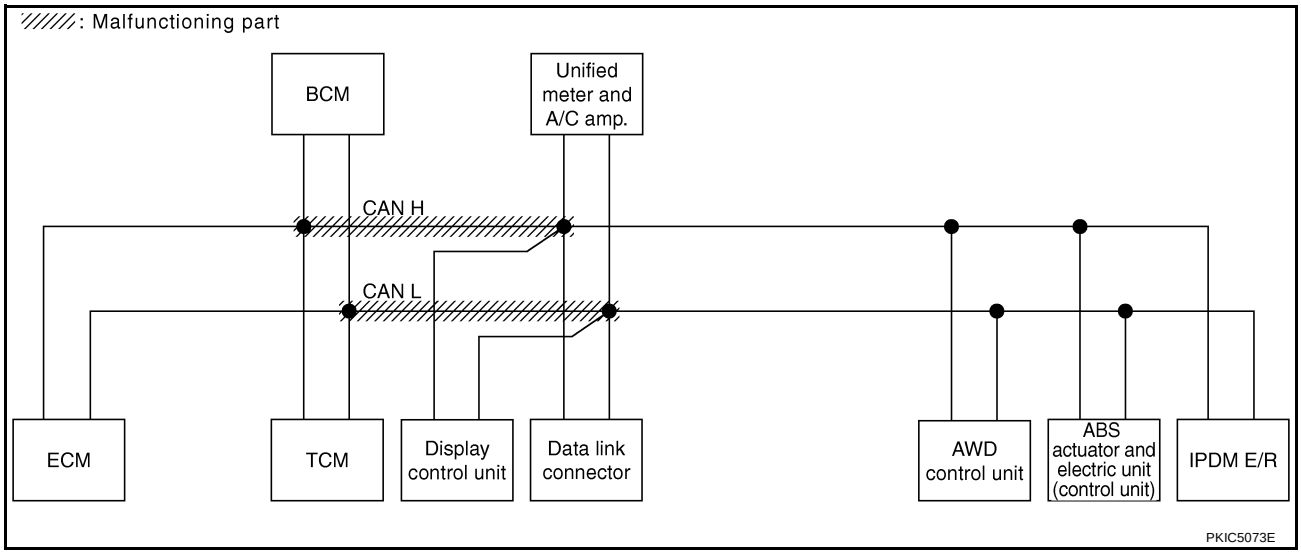

Case 2

Check harness between data link connector and AWD control unit. Refer to LAN-158, "Inspection Between Data Link Connector and AWD Control Unit Circuit" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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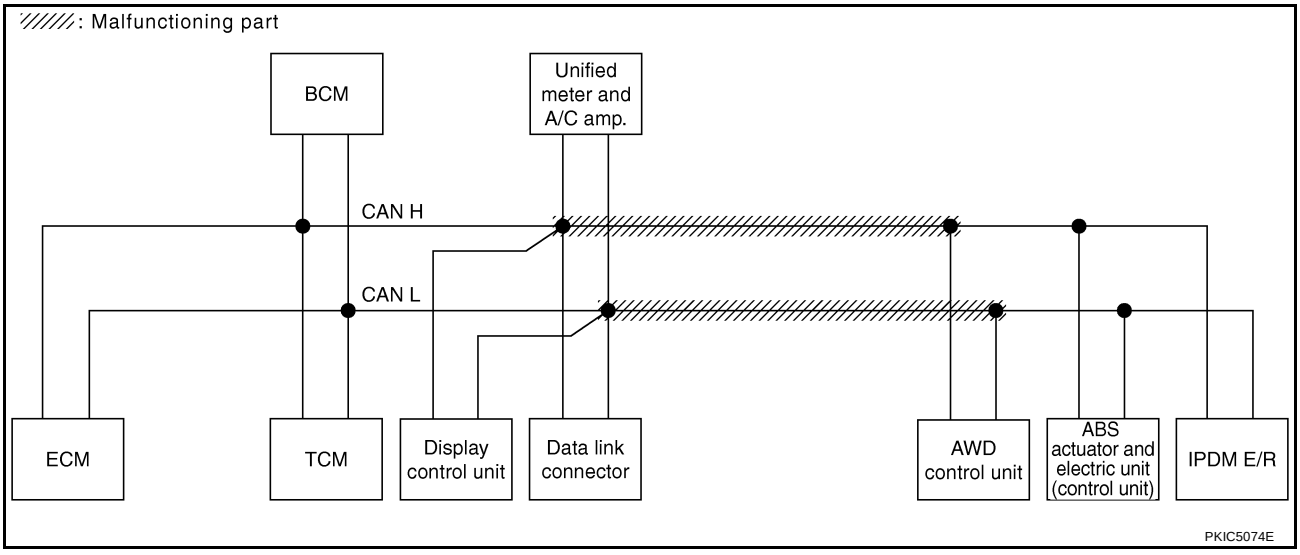

Case 3

Check harness between AWD control unit and ABS actuator and electric unit (control unit). Refer to LAN-163, "Inspection Between AWD 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 /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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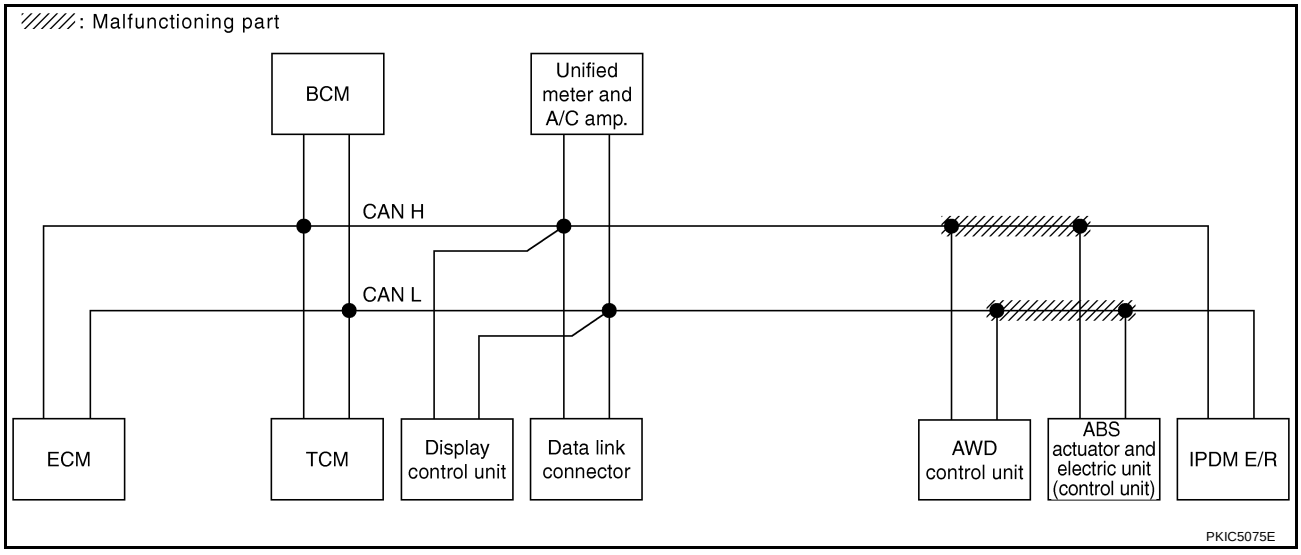

Case 4

Check ECM circuit. Refer to LAN-163, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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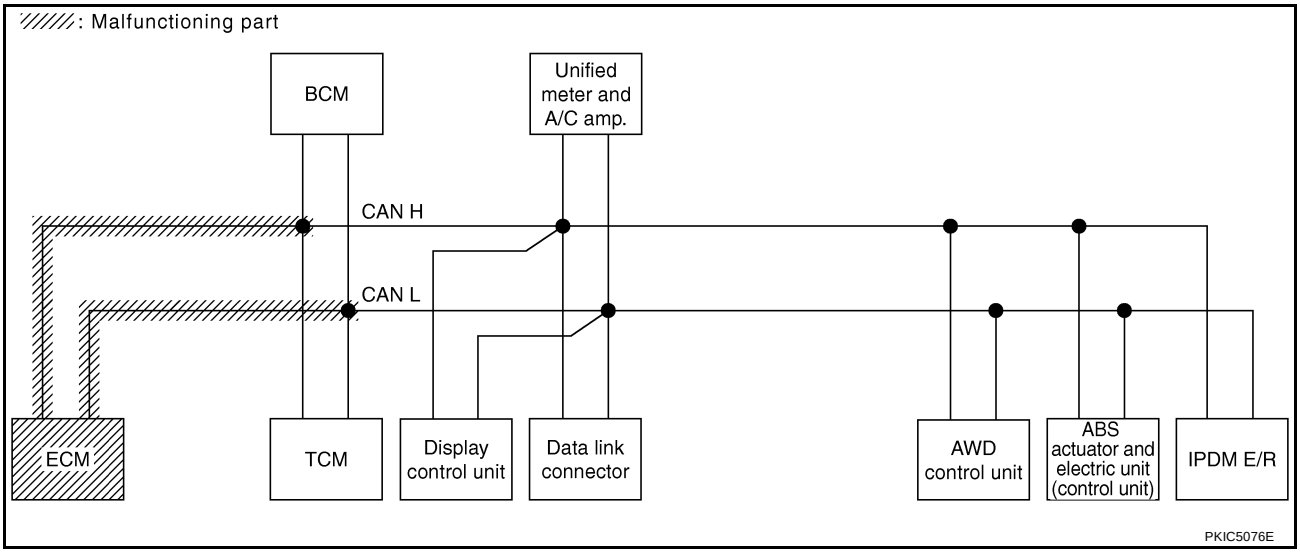

Case 5

Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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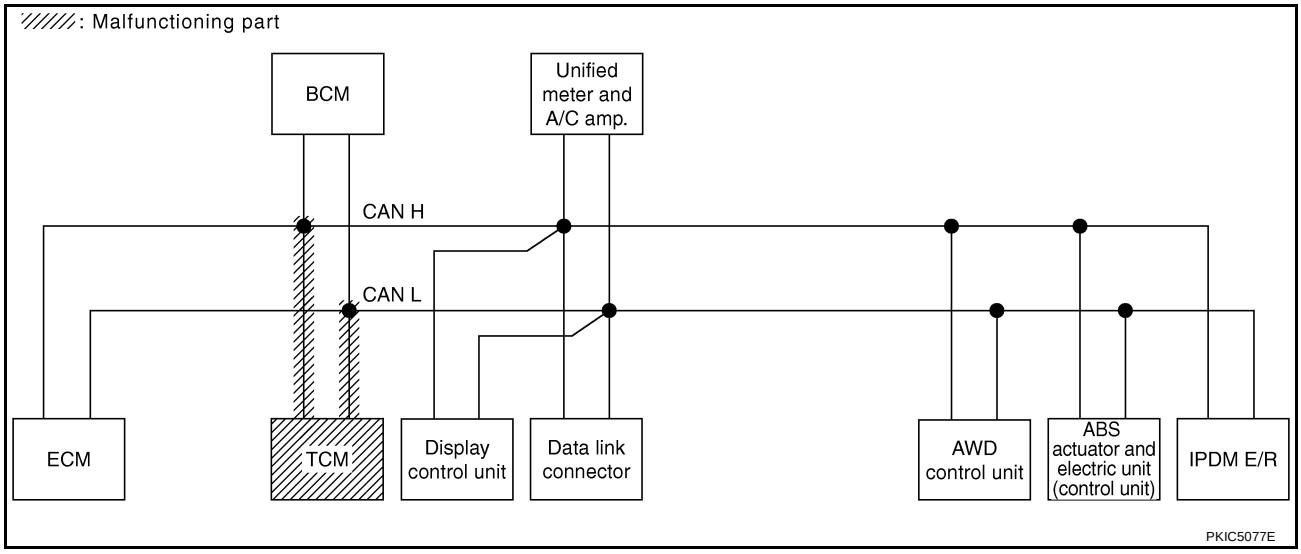

Case 6

Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN ✓	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN ✓	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN ✓	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

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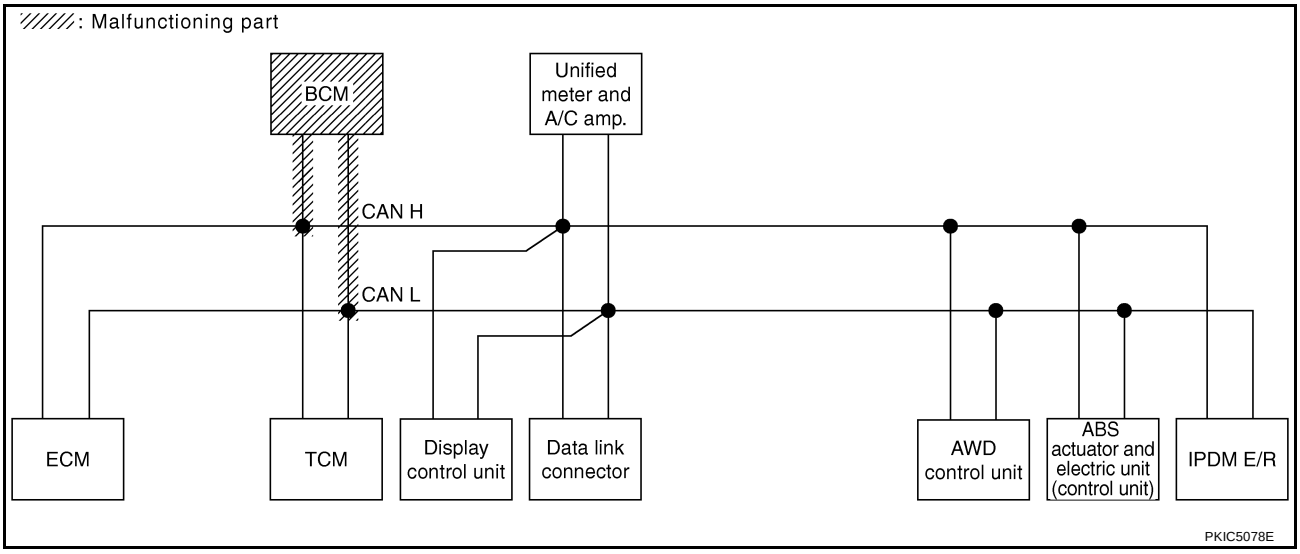

Case 7

Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	UNKWN ✓	—	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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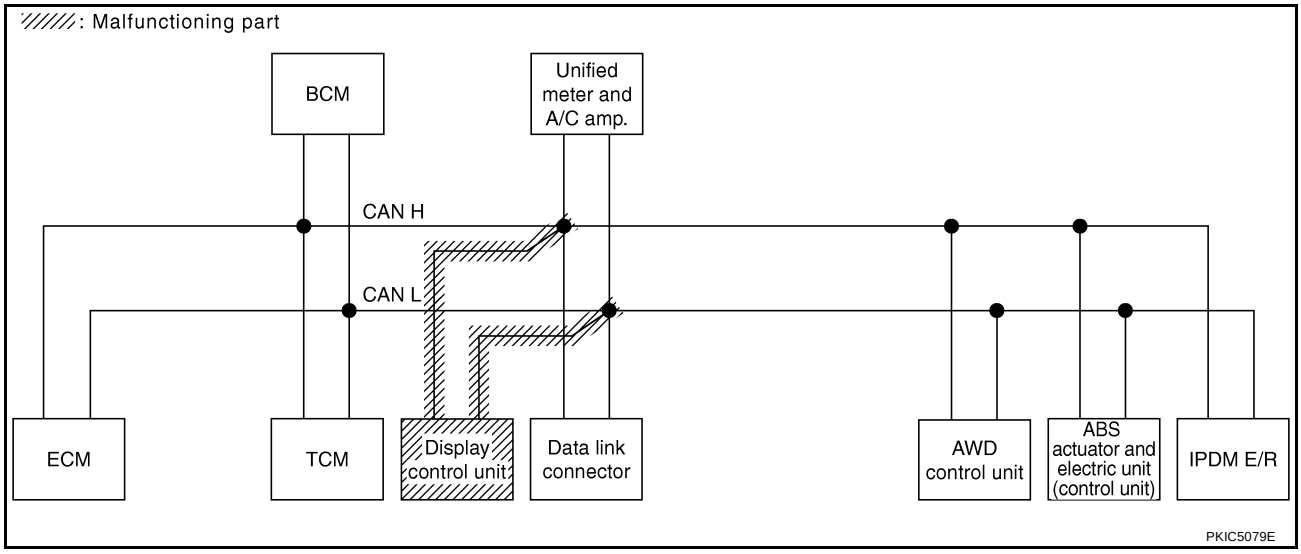

Case 8

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	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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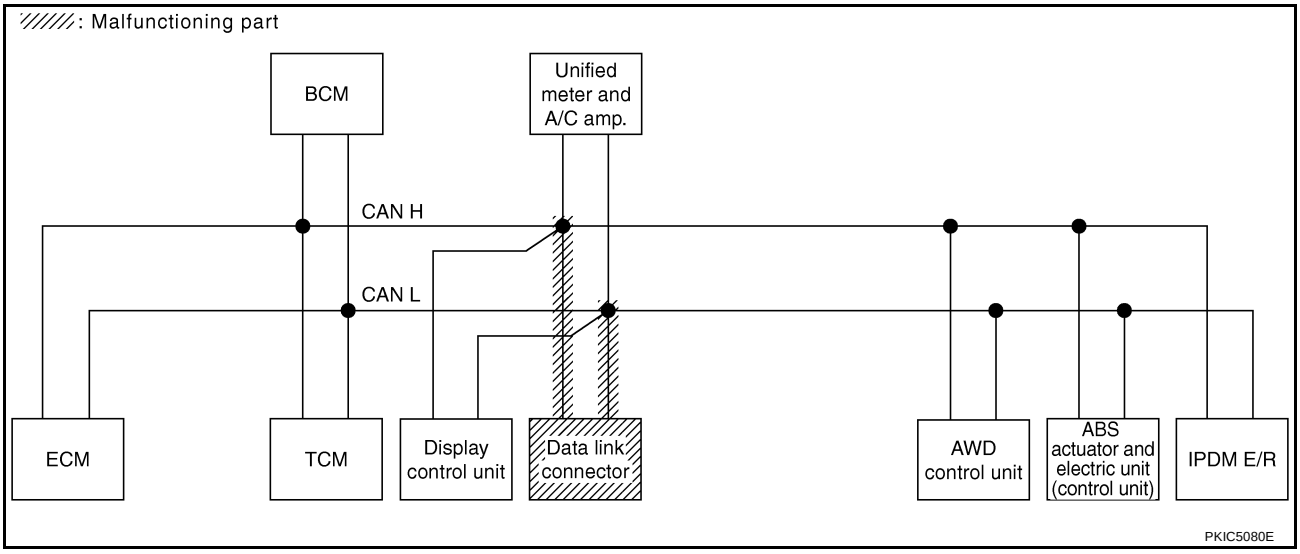

Case 9

Check unified meter and A/C amp. circuit. Refer to LAN-166, "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 /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN ✓	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN ✓	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	—	—	UNKWN	—	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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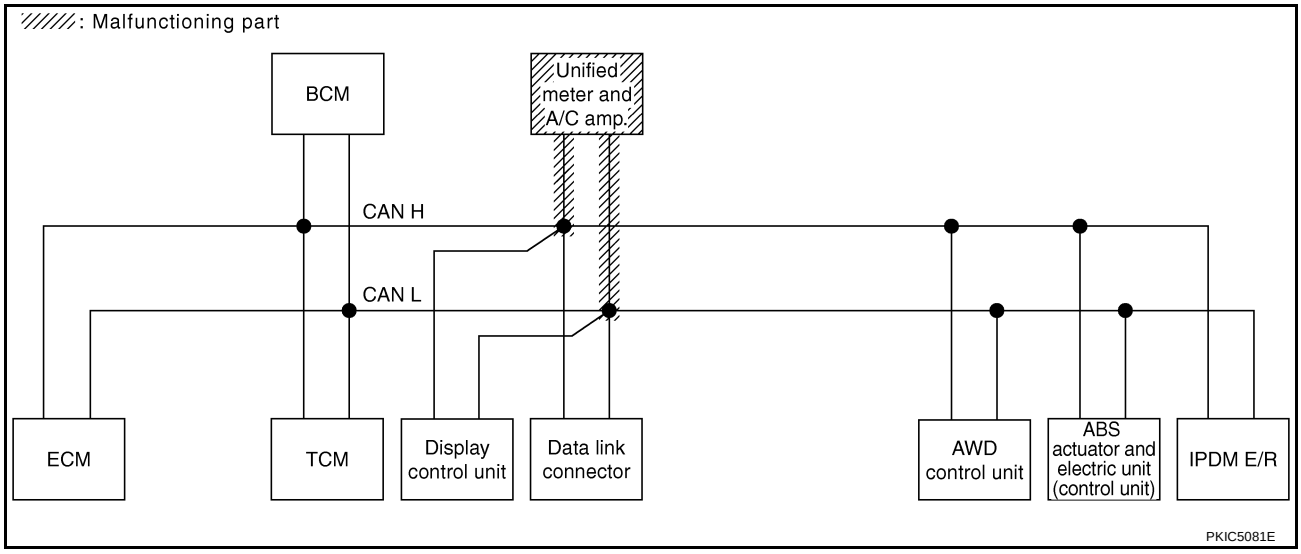

Case 10

Check AWD control unit circuit. Refer to LAN-168, "AWD Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN ✓	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN ✓	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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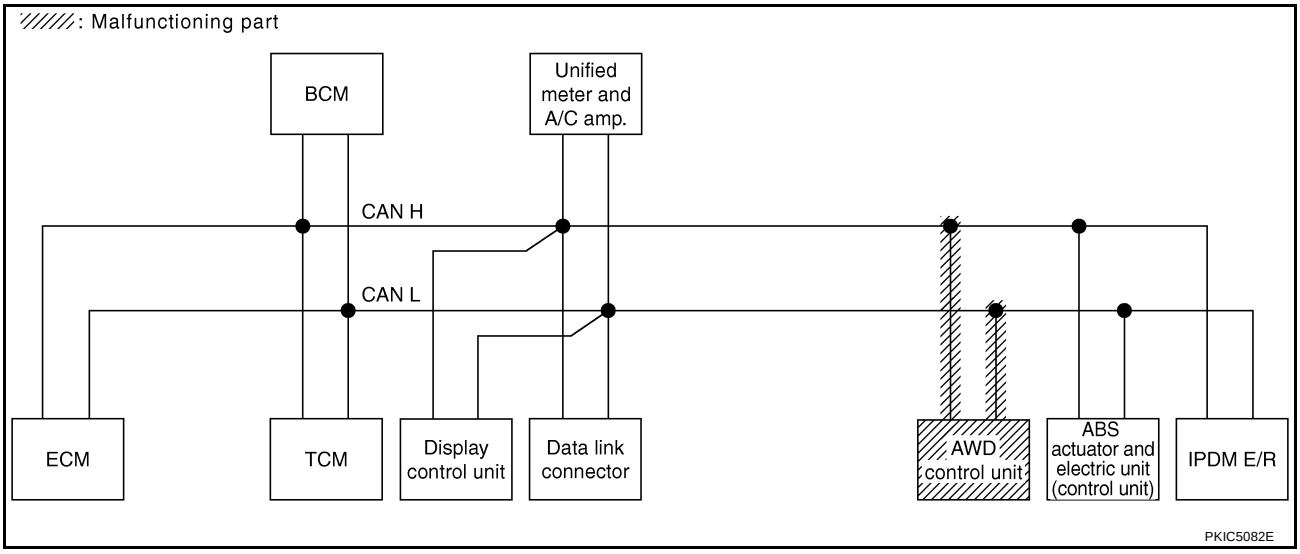
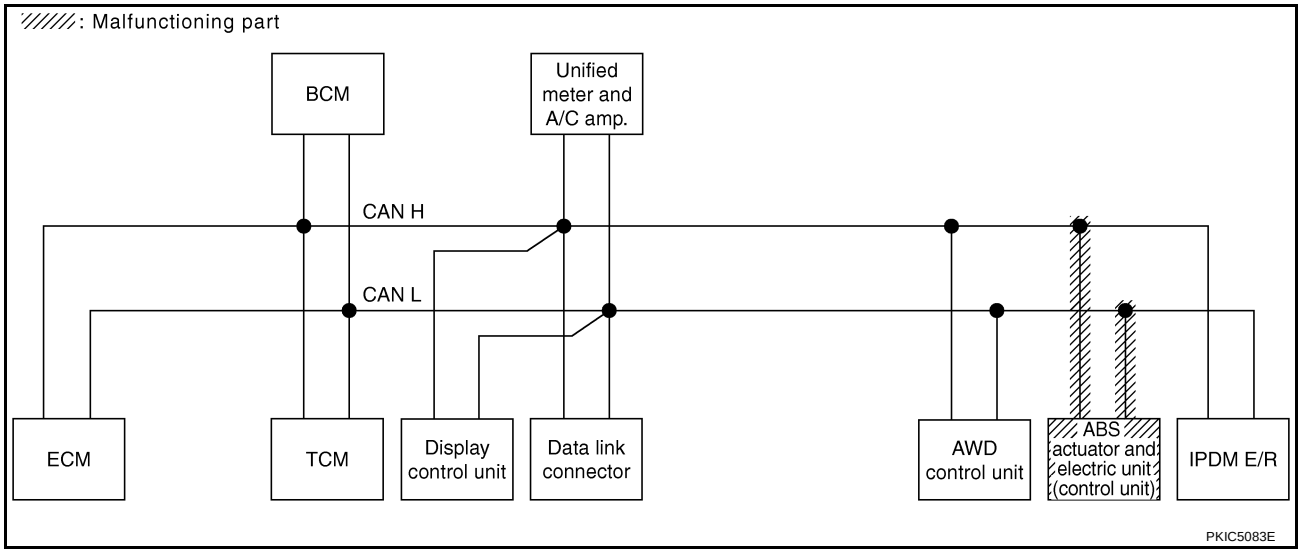


Case 11

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-168, "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 /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5395E



Case 12

Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

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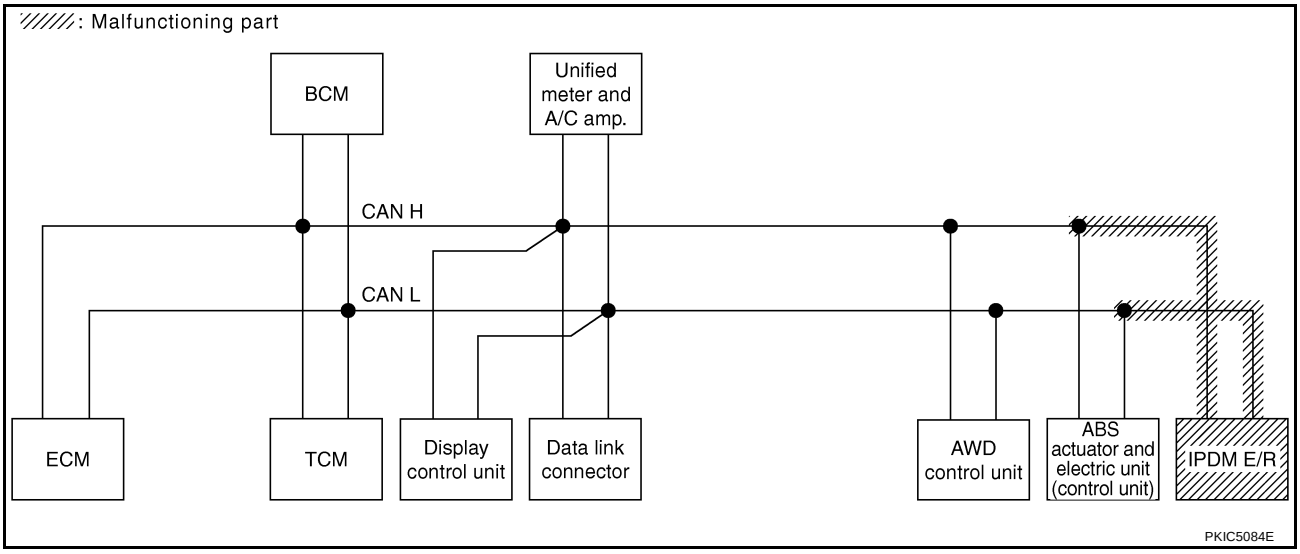


Case 13

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	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5397E

Case 14

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-170, "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 /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5398E

Case 15

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-170, "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 /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5399E

CAN SYSTEM (TYPE 5)

PFP:23710

Component Parts and Harness Connector Location

NKS002UC

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

NKS002UD

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

NKS002UE

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

NKS002UF

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

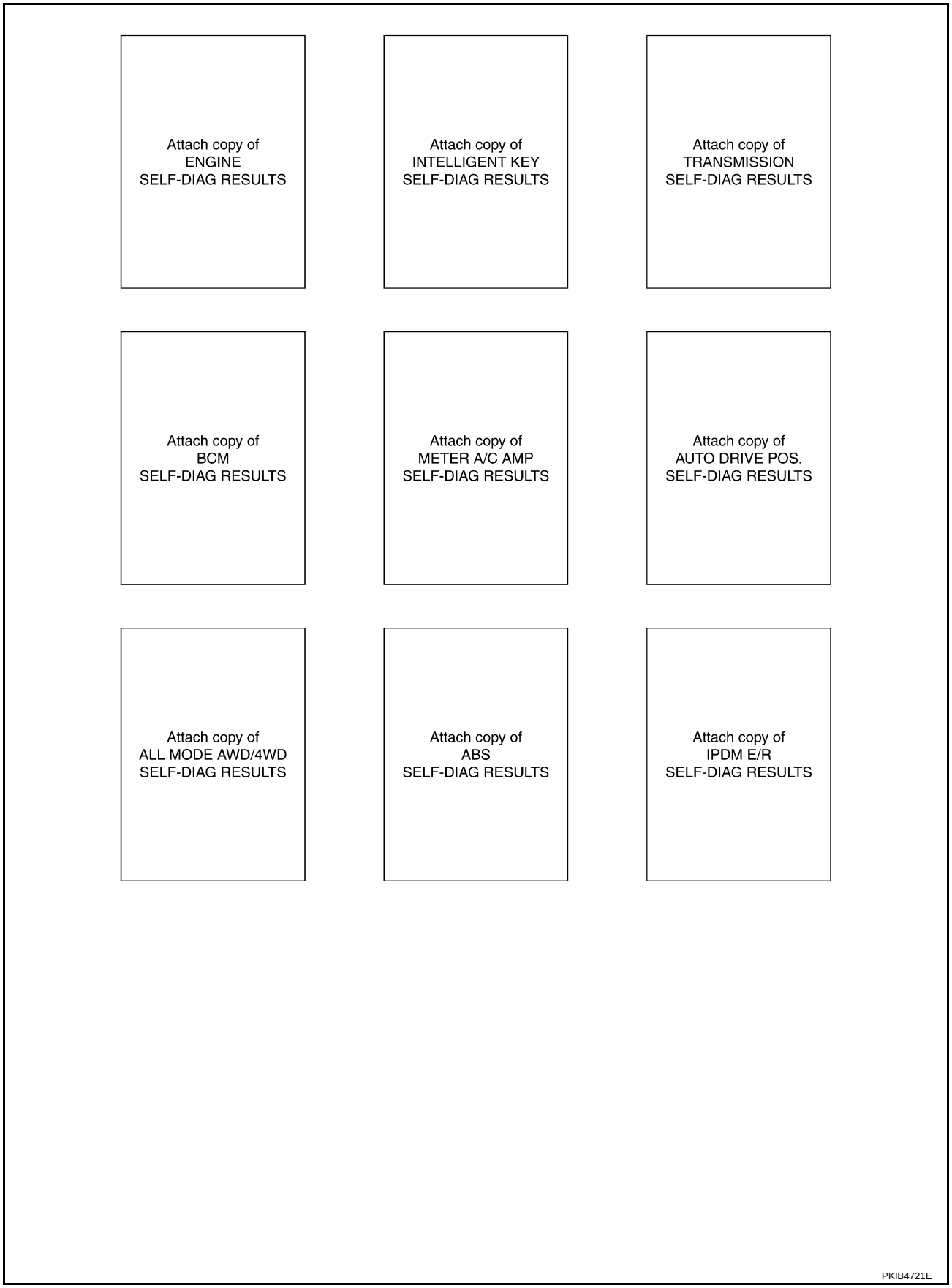
Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	—
CAN CIRC 2	BCM	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR Check Sheet

PKIC5155E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS
Attach copy of
TRANSMISSION
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER A/C AMP
SELF-DIAG RESULTS
Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS
Attach copy of
ABS
SELF-DIAG RESULTS
Attach copy of
IPDM E/R
SELF-DIAG RESULTS
PKIB4721E

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
TRANSMISSION
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

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

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIB4722E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

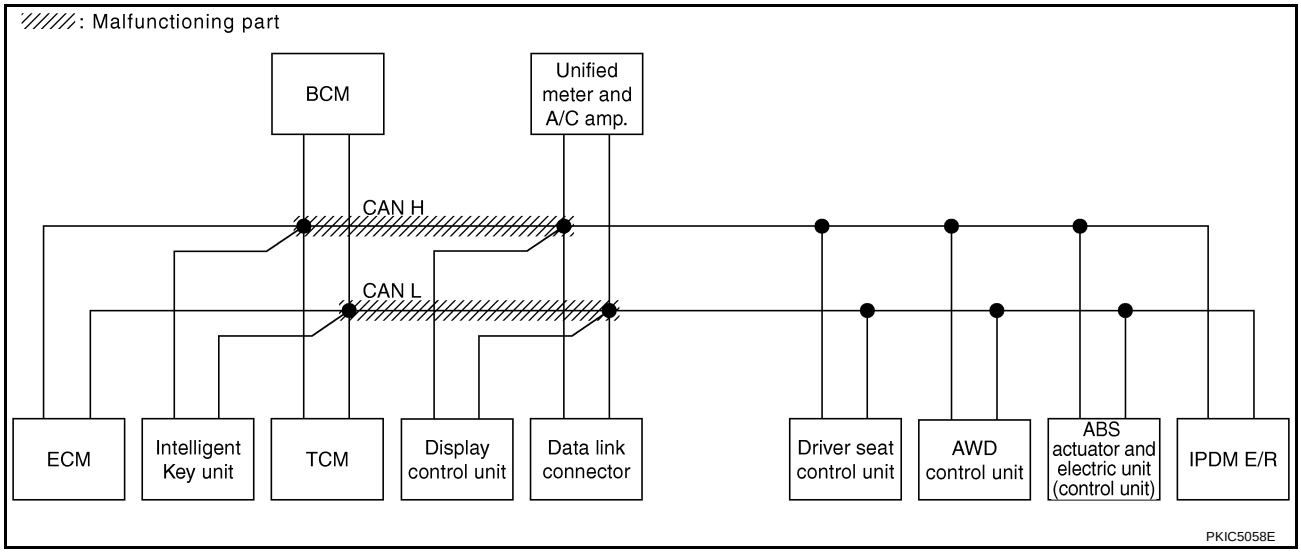
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to LAN-157, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5156E

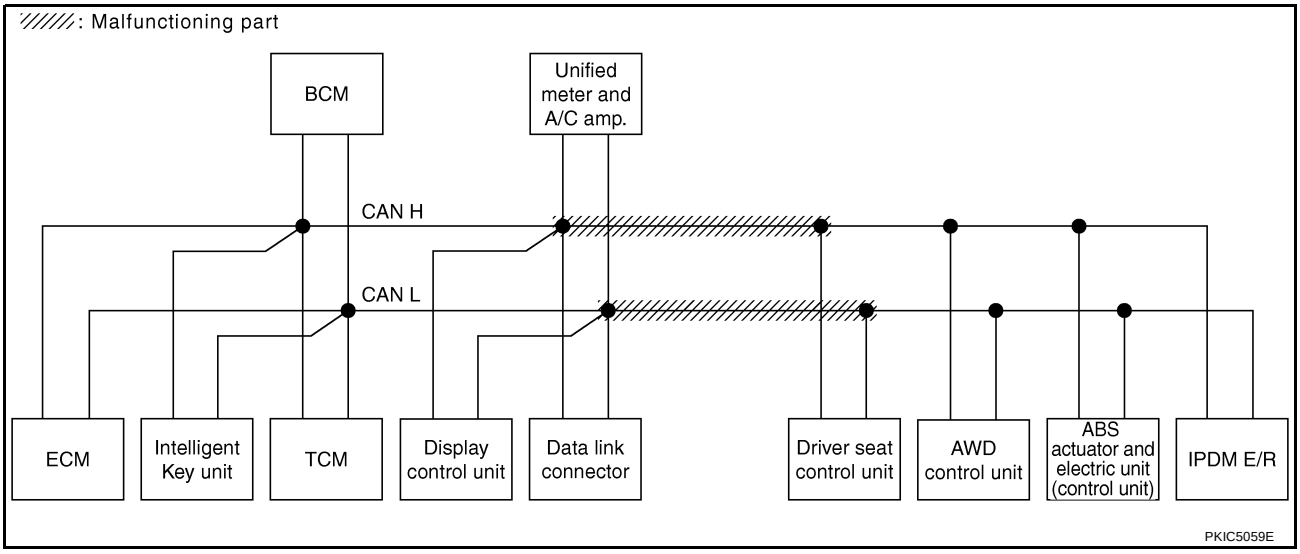


Case 2

Check harness between data link connector and driver seat control unit. Refer to LAN-157, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5157E

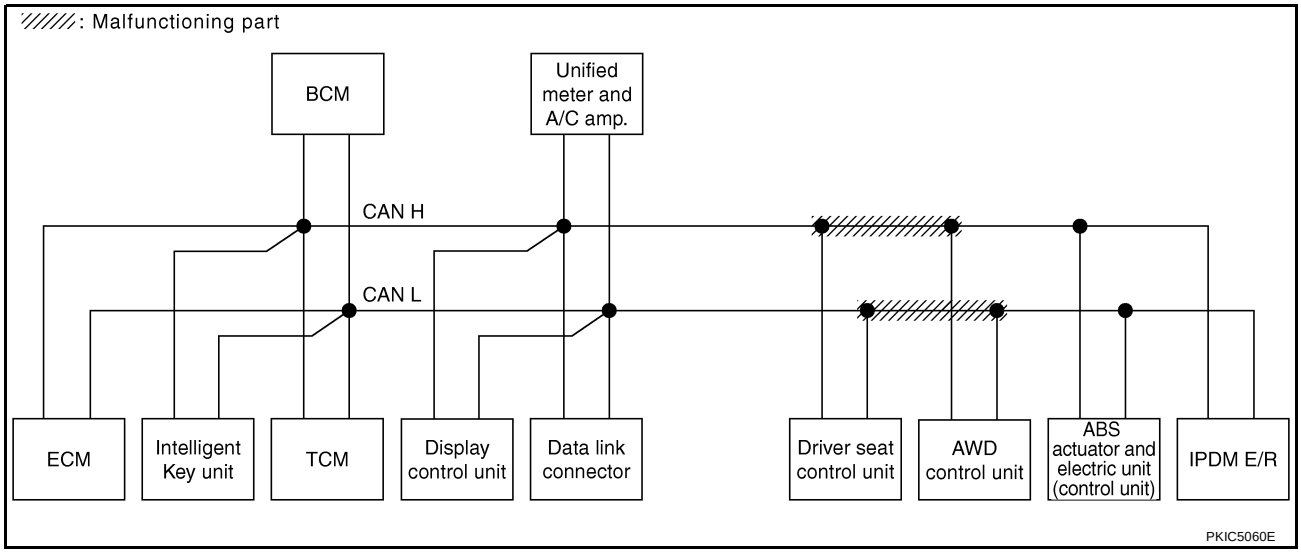


Case 3

Check harness between driver seat control unit and AWD control unit. Refer to LAN-161, "Inspection Between Driver Seat Control Unit and AWD Control Unit Circuit" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5158E

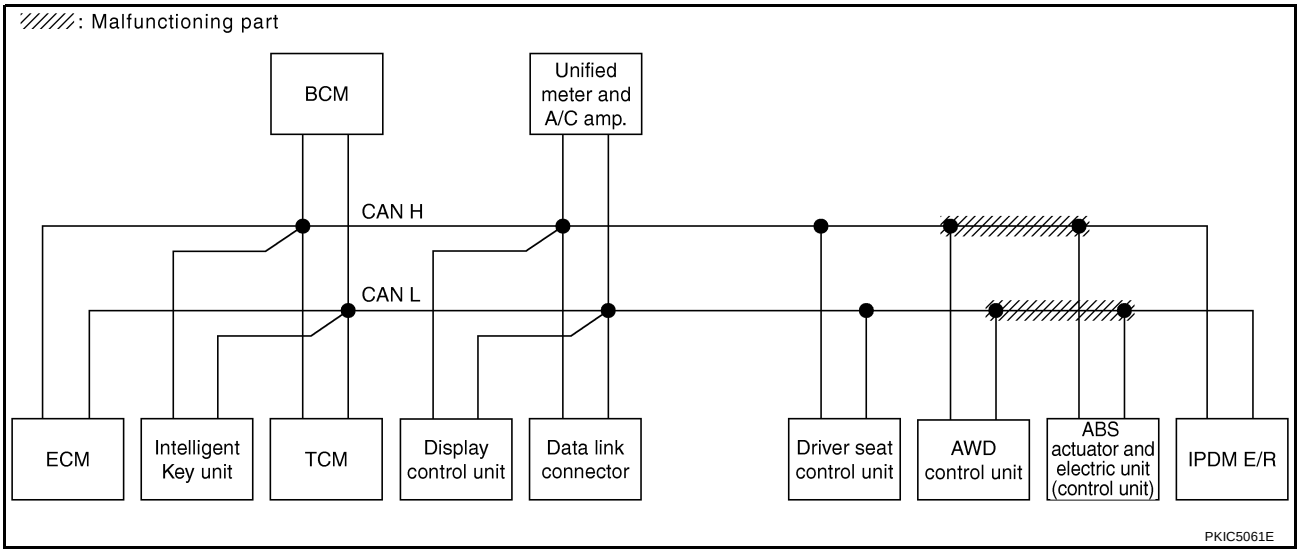


Case 4

Check harness between AWD control unit and ABS actuator and electric unit (control unit). Refer to LAN-163, "Inspection Between AWD 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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC5159E

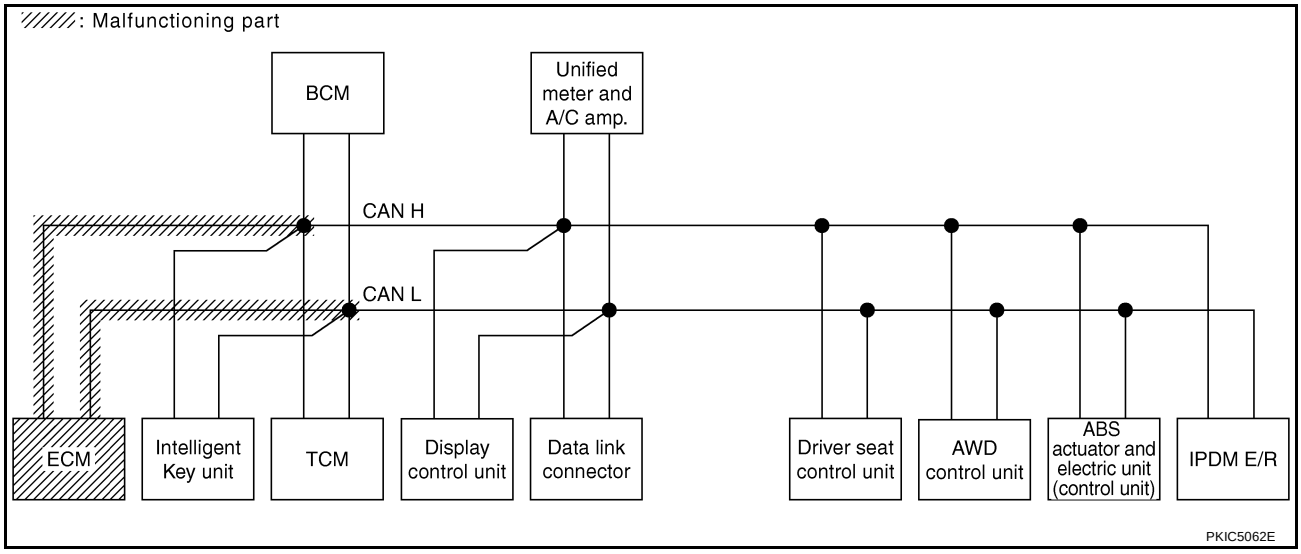


Case 5

Check ECM circuit. Refer to LAN-163, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5160E

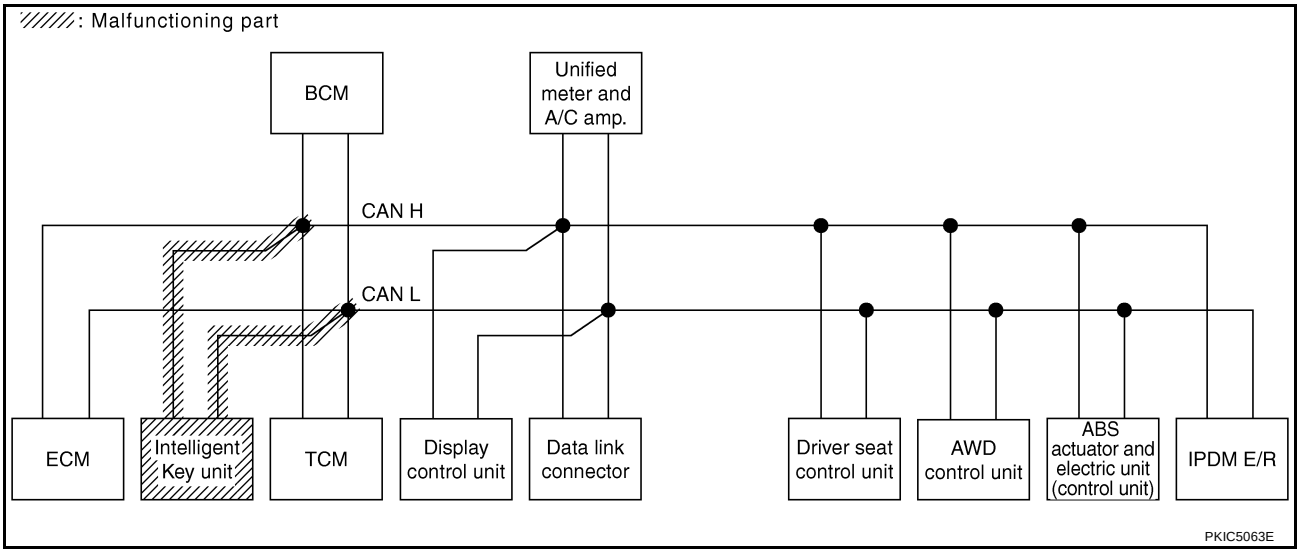


Case 6

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5161E



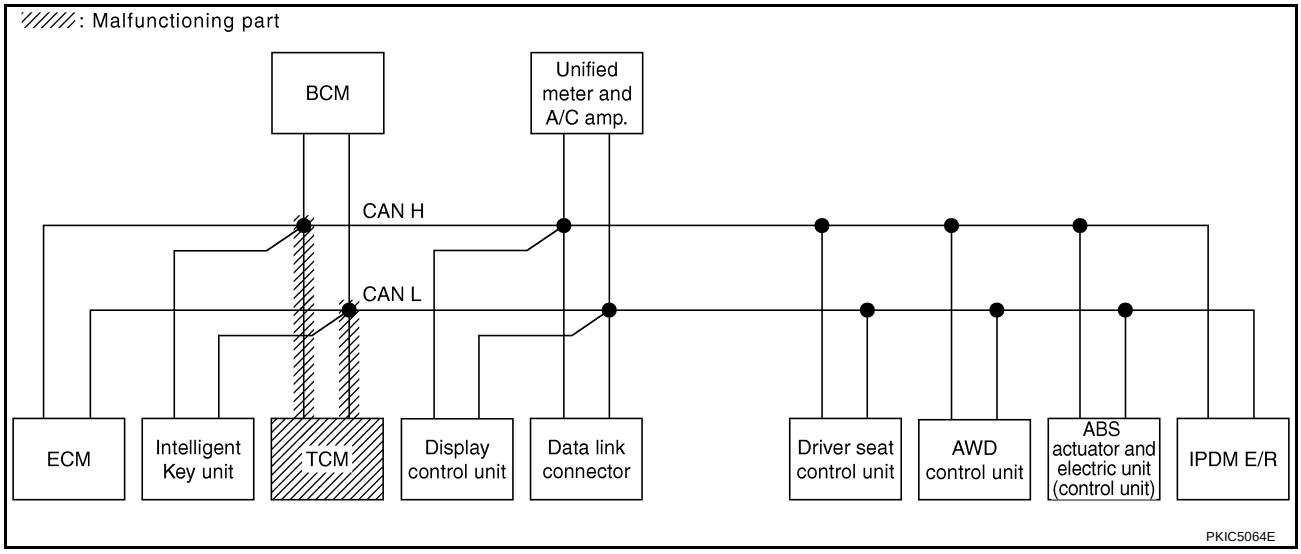
PKIC5063E

Case 7

Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN ✓	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN ✓	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5162E

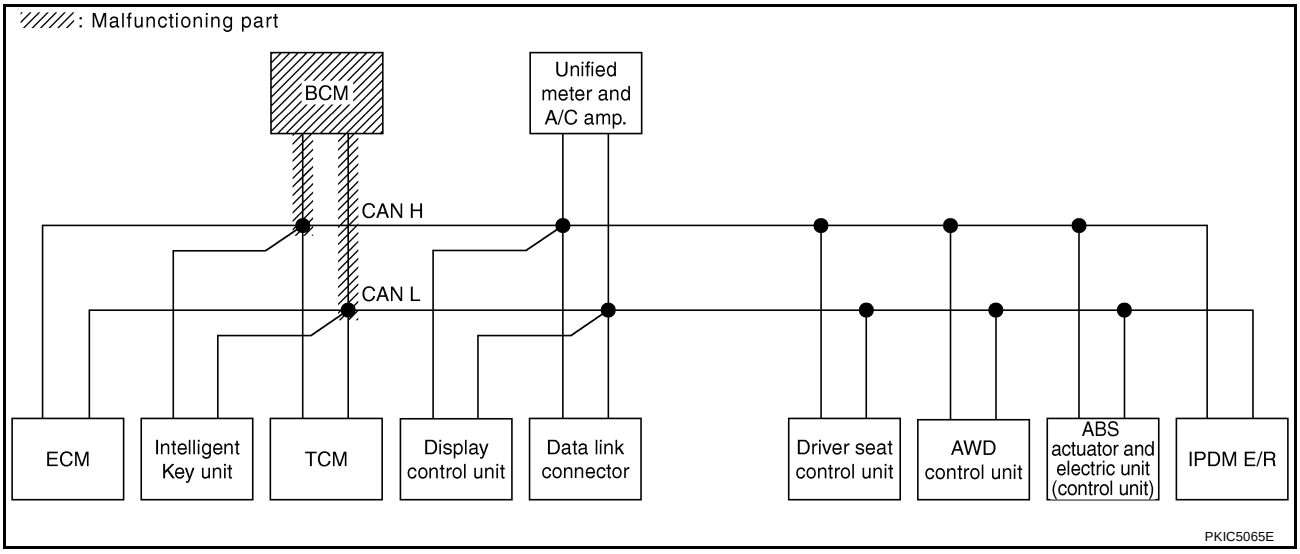


Case 8

Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5163E



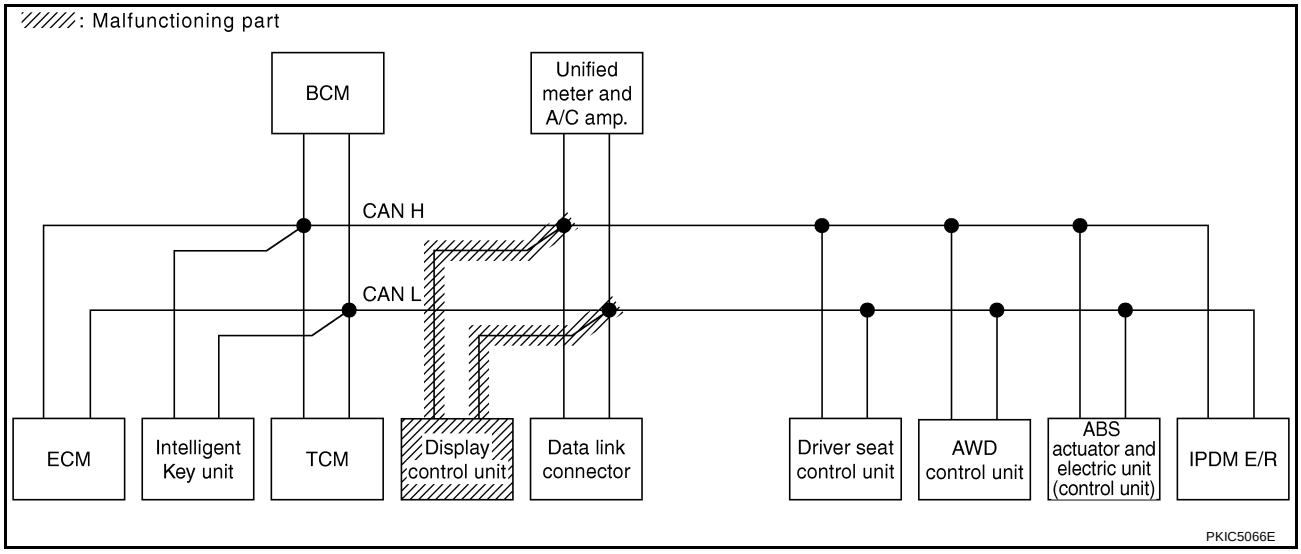
PKIC5065E

Case 9

Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	—	UNKWN ✓	—	UNKWN ✓	—	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5164E

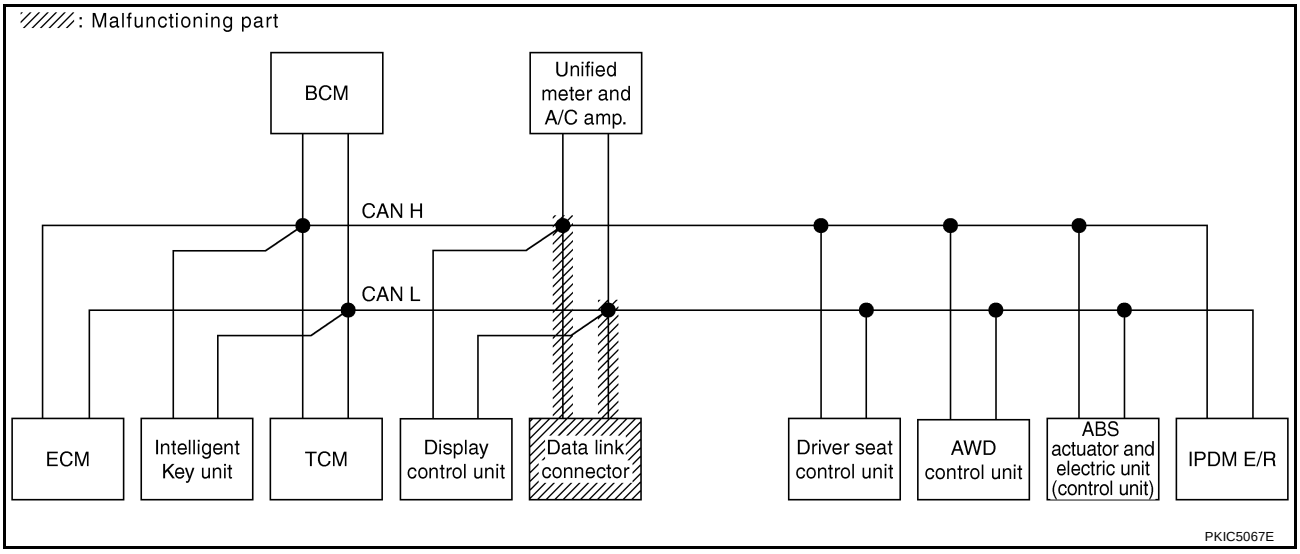


Case 10

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5165E



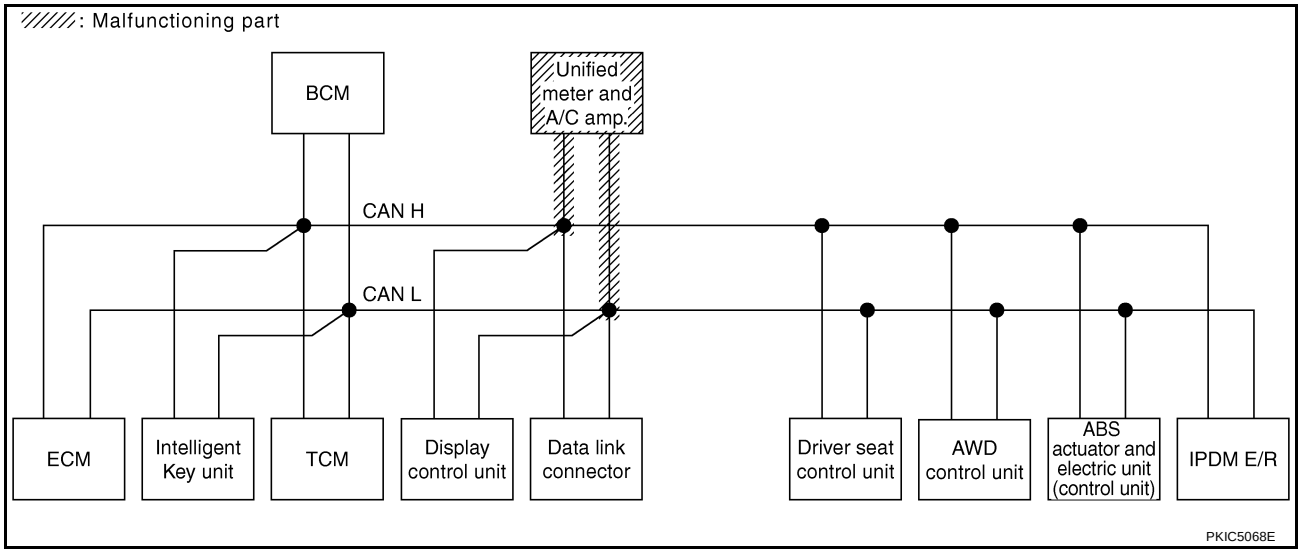
PKIC5067E

Case 11

Check unified meter and A/C amp. circuit. Refer to LAN-166, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN ✓	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN ✓	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN ✓	—	—	UNKWN	—	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5166E

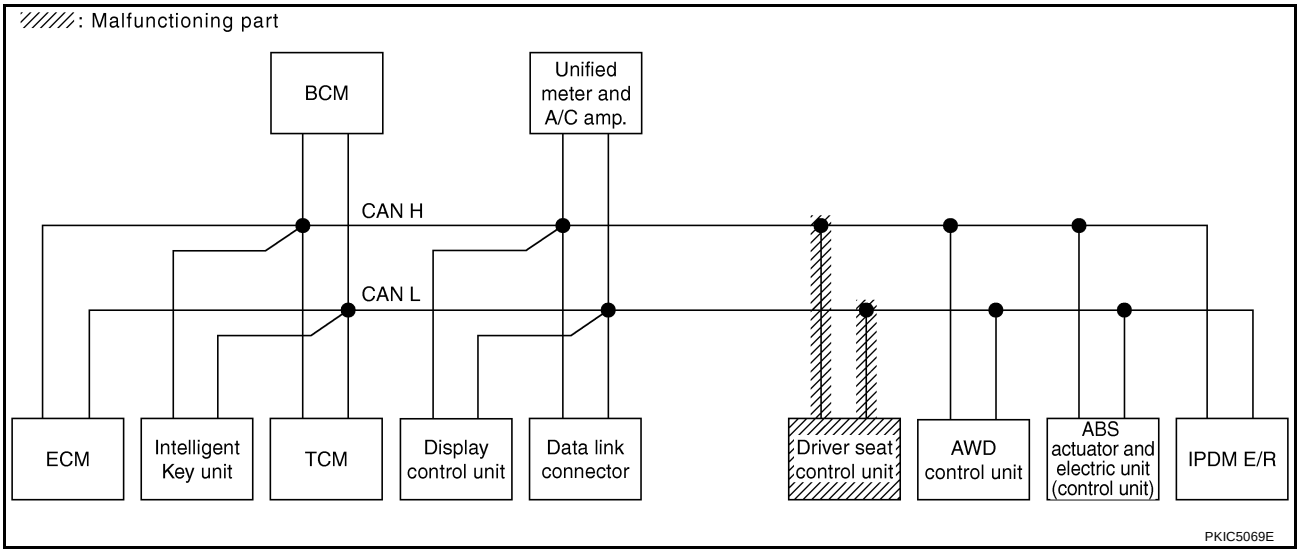


Case 12

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5167E

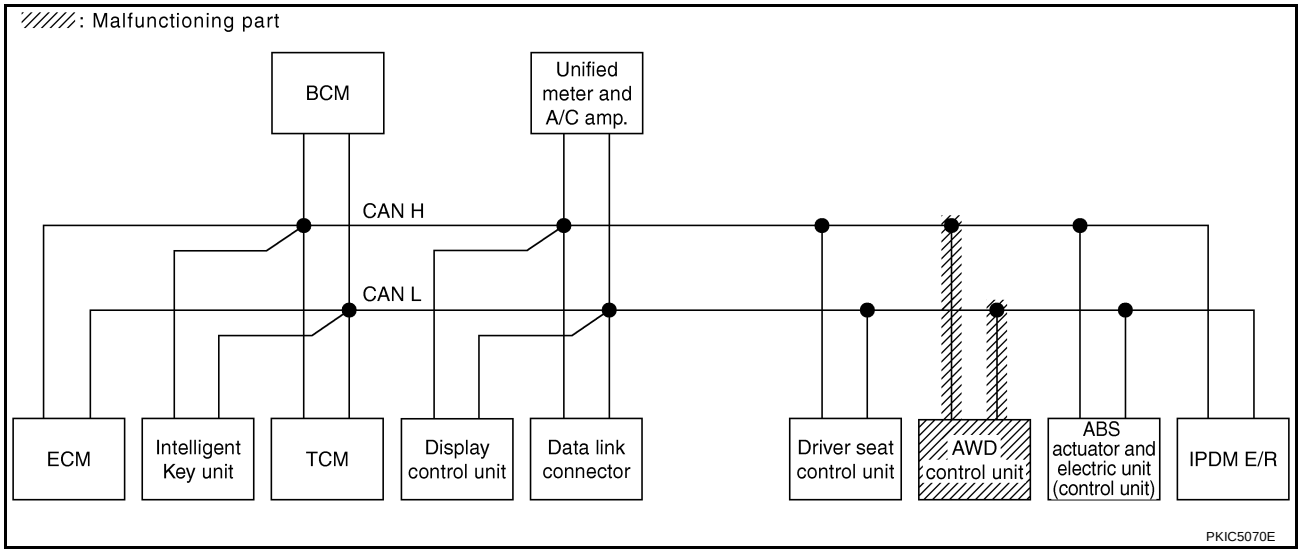


Case 13

Check AWD control unit circuit. Refer to LAN-168, "AWD Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN ✓	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN ✓	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5168E

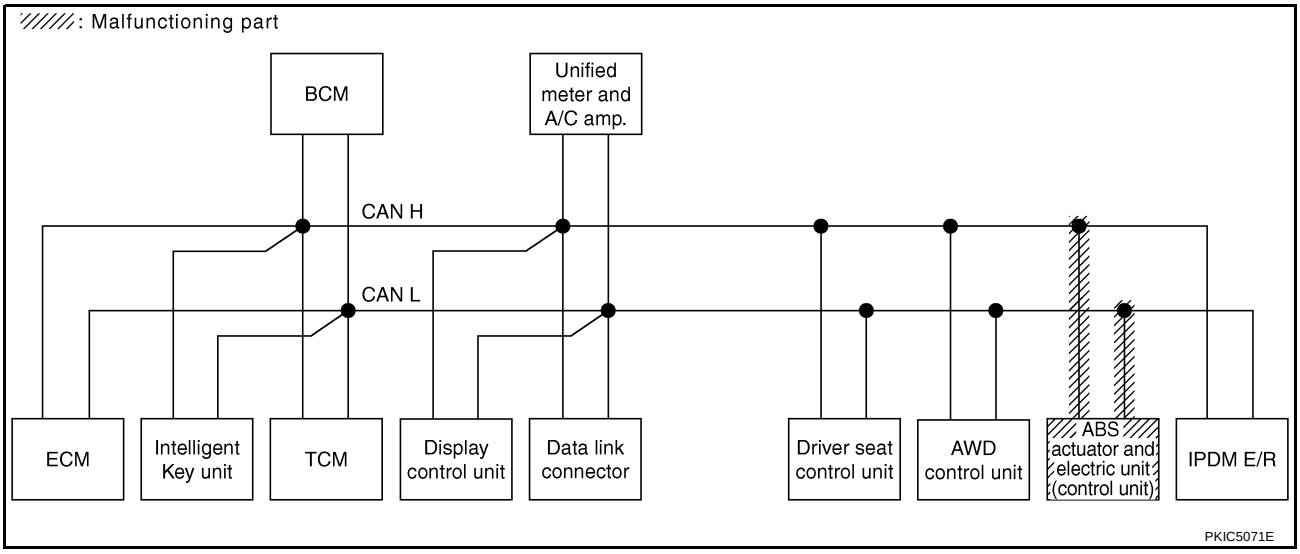


Case 14

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-168, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5169E



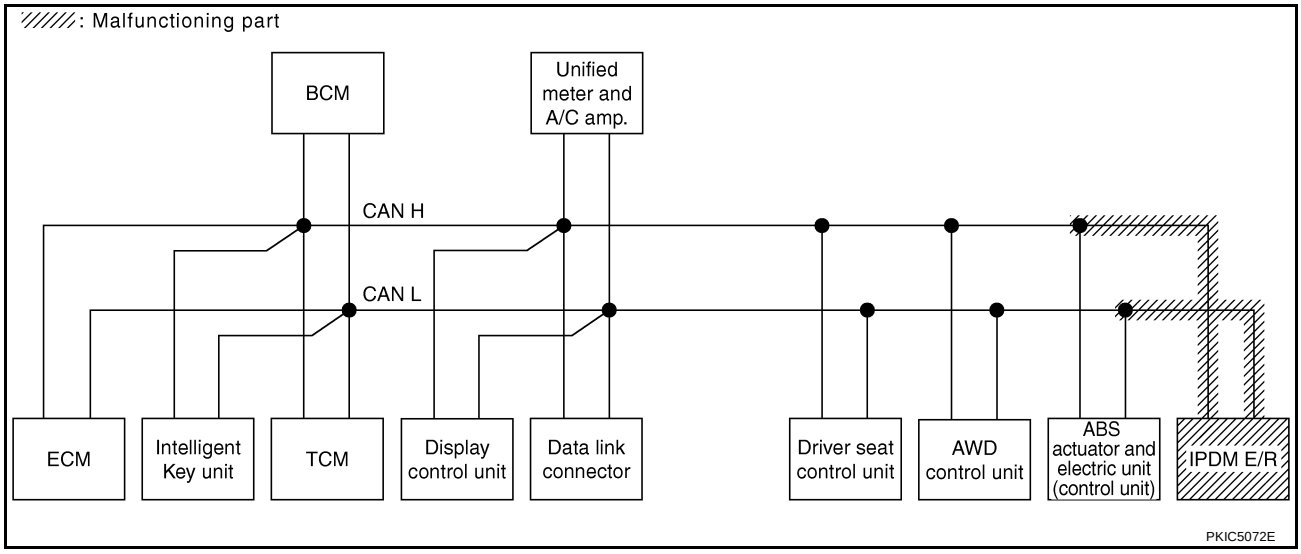
PKIC5071E

Case 15

Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5170E



Case 16

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5171E

Case 17

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5172E

Case 18

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5173E

CAN SYSTEM (TYPE 6)

PFP:23710

Component Parts and Harness Connector Location

NKS002UG

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

NKS002UH

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

NKS002UI

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

NKS002UJ

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

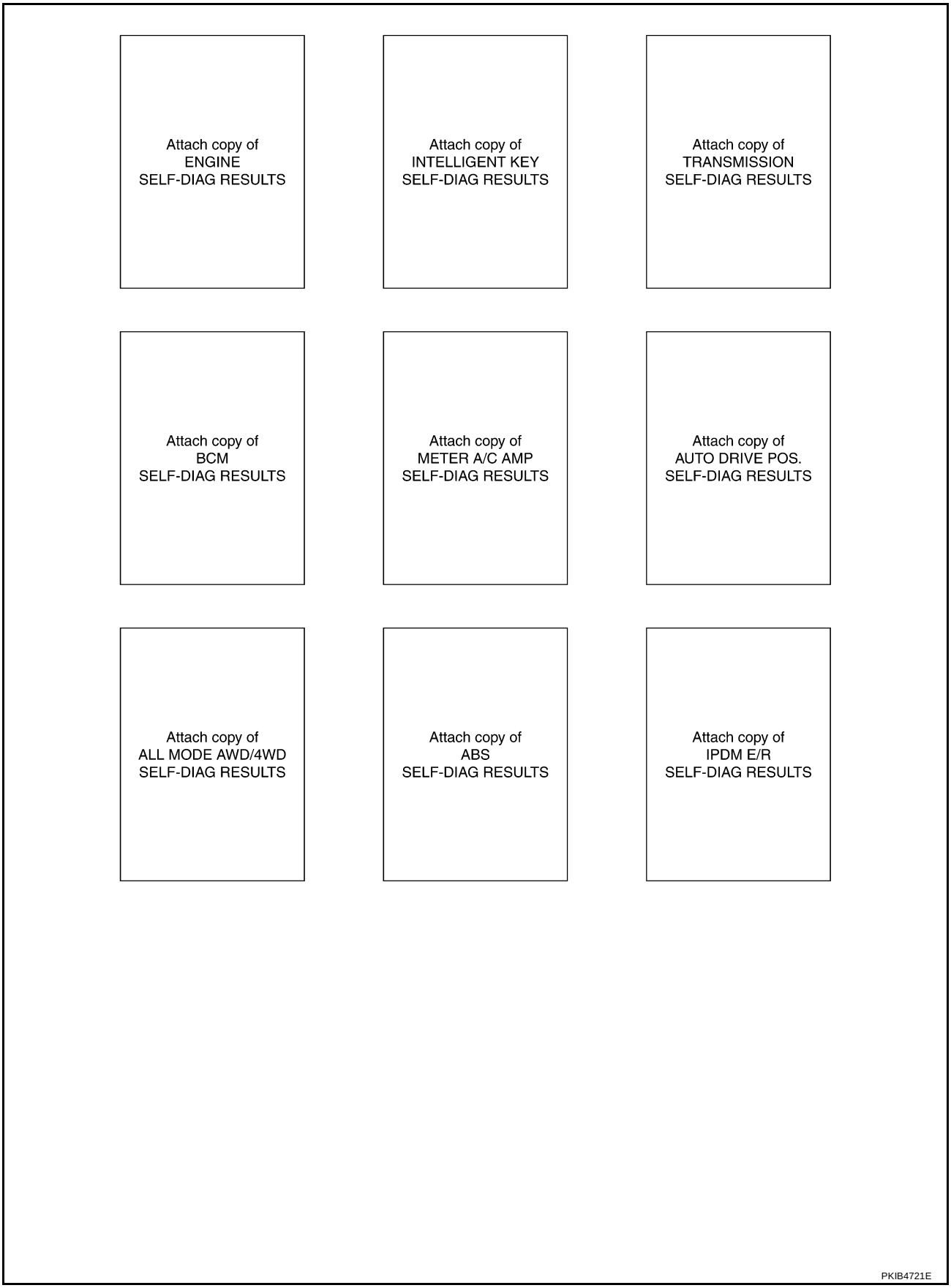
Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	—
CAN CIRC 2	BCM	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR Check Sheet

PKIC5135E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS
Attach copy of
TRANSMISSION
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER A/C AMP
SELF-DIAG RESULTS
Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS
Attach copy of
ABS
SELF-DIAG RESULTS
Attach copy of
IPDM E/R
SELF-DIAG RESULTS
PKIB4721E

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
TRANSMISSION
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

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

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIB4722E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

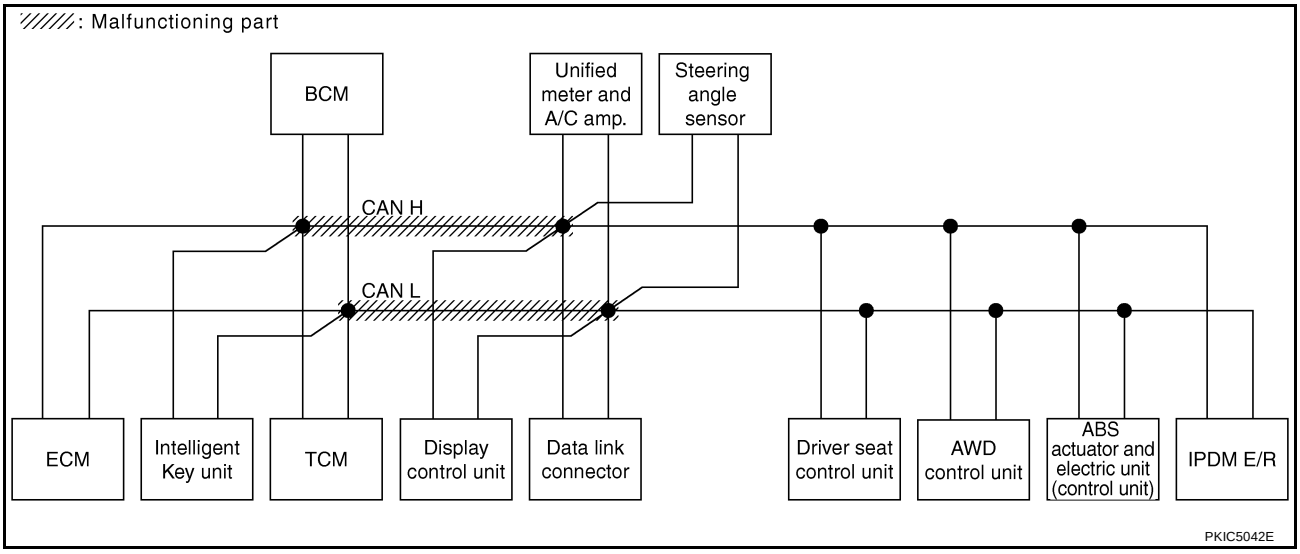
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to LAN-157, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5136E



Case 2

Check harness between data link connector and driver seat control unit. Refer to LAN-157, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	✓ UNKWN	✓ UNKWN	✓ UNKWN	CAN COMM CIRCUIT (U1000)	✓ CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	✓ UNKWN	—	✓ CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	✓ UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	✓ UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	✓ UNKWN	✓ UNKWN	—	✓ CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	✓ No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	✓ CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	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)	—

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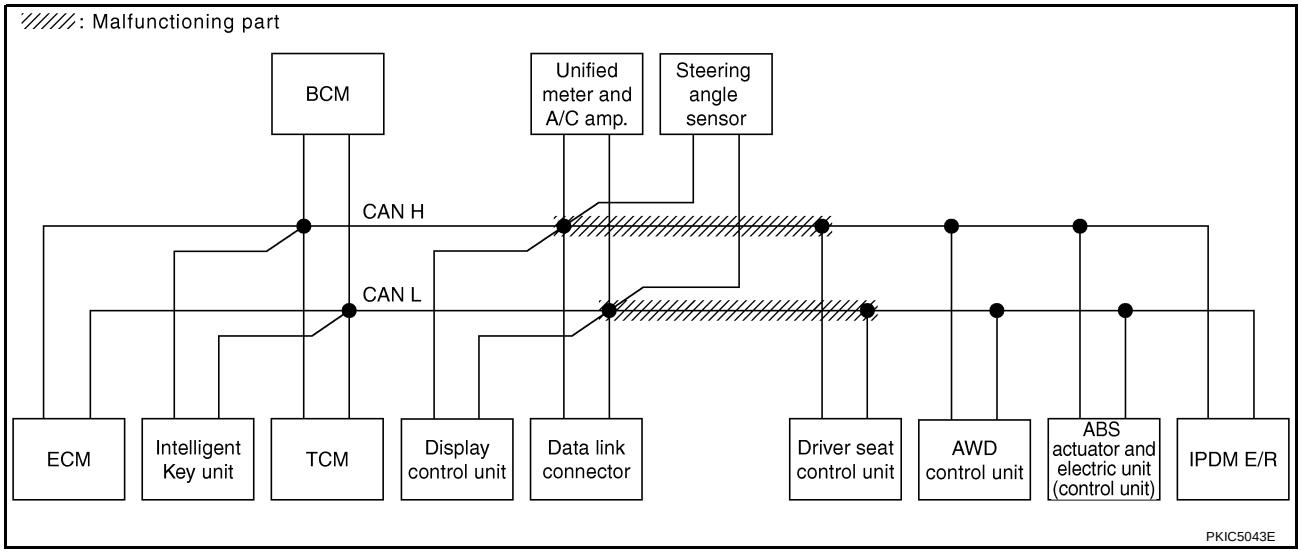
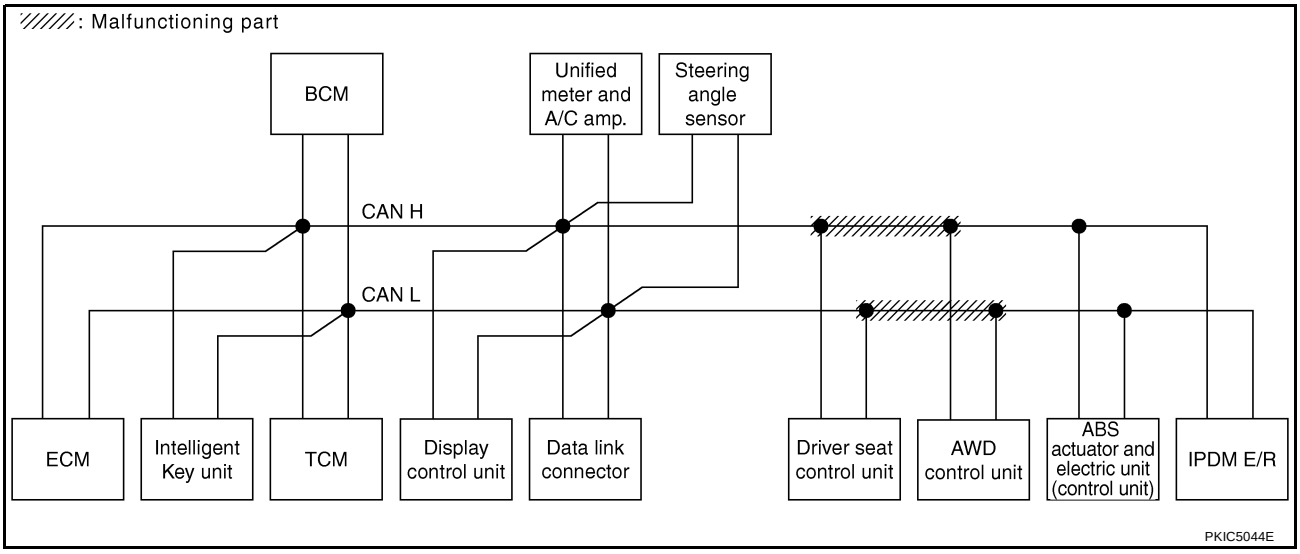


Case 3

Check harness between driver seat control unit and AWD control unit. Refer to LAN-161, "Inspection Between Driver Seat Control Unit and AWD Control Unit Circuit" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	✓	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	✓	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	✓	✓	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	✓	—	✓	—	—	—	✓	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC5138E

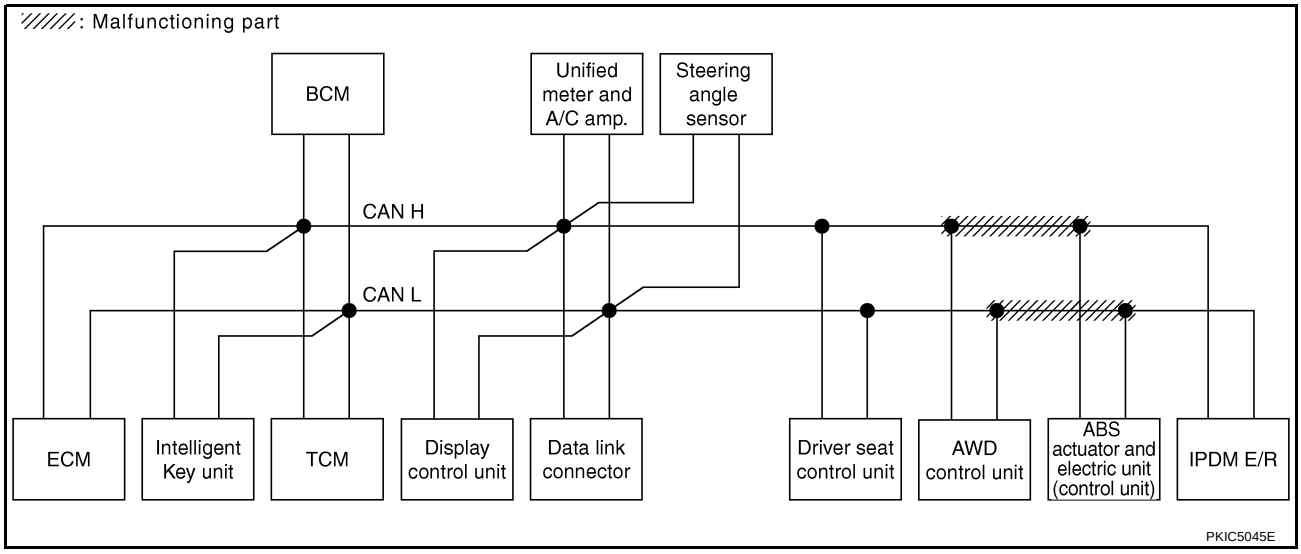


Case 4

Check harness between AWD control unit and ABS actuator and electric unit (control unit). Refer to LAN-163, "Inspection Between AWD 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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5139E

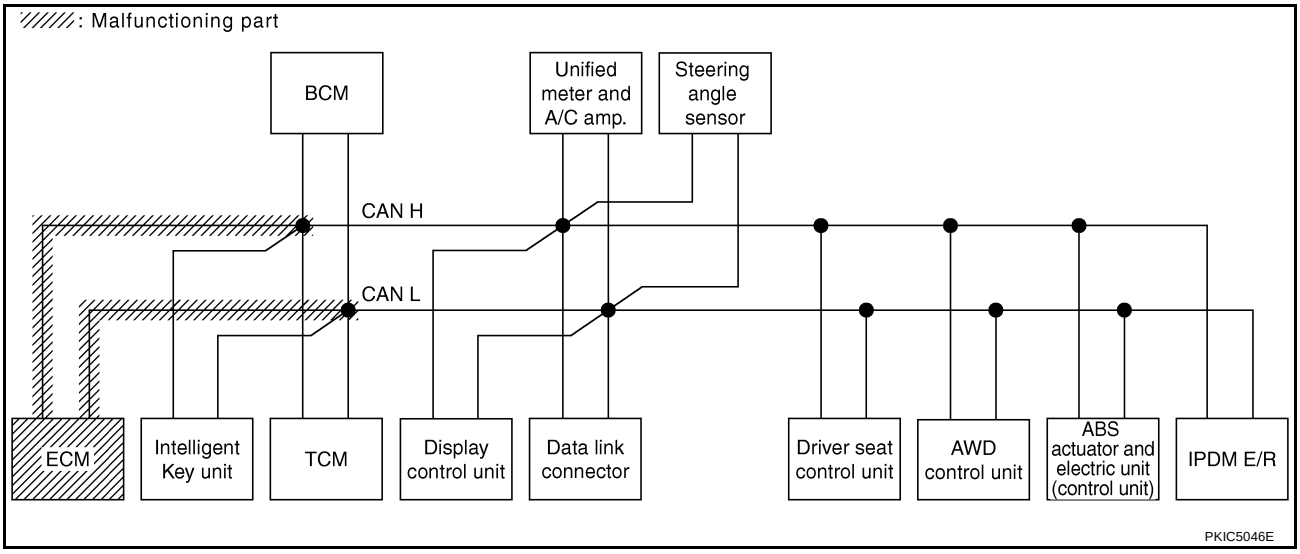


Case 5

Check ECM circuit. Refer to LAN-163, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5140E

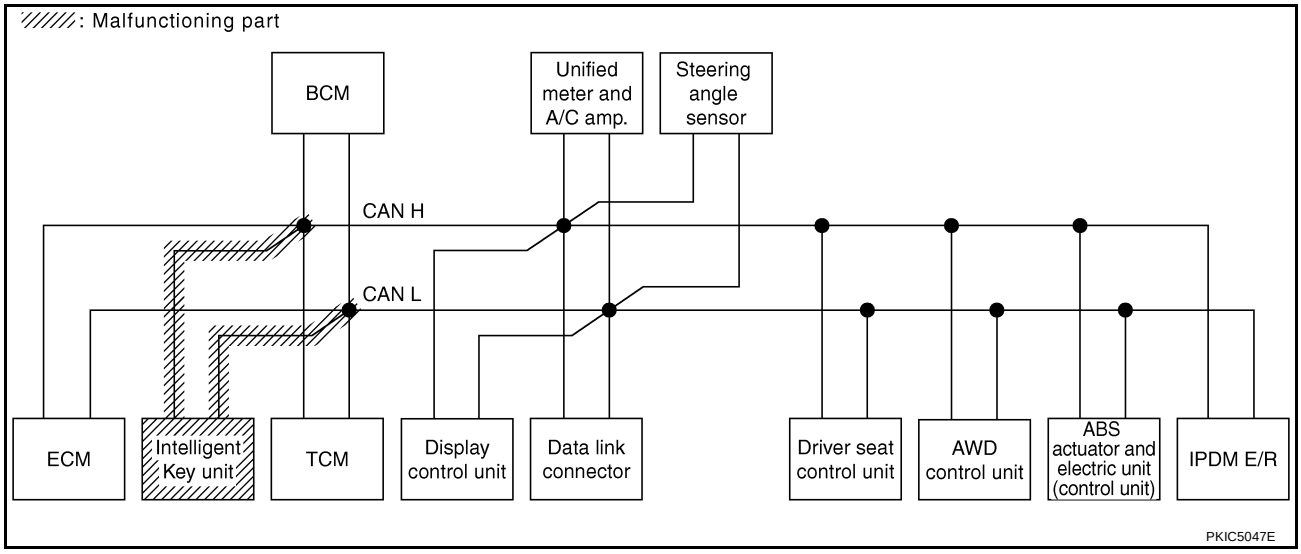


Case 6

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5141E

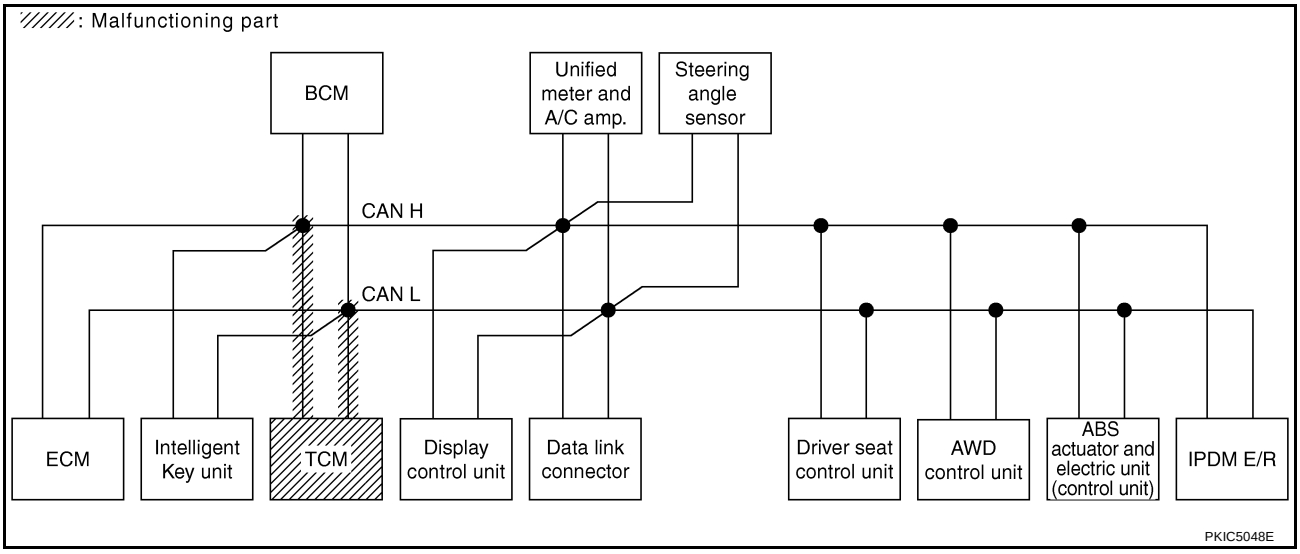


Case 7

Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN ✓	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN ✓	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN ✓	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5142E



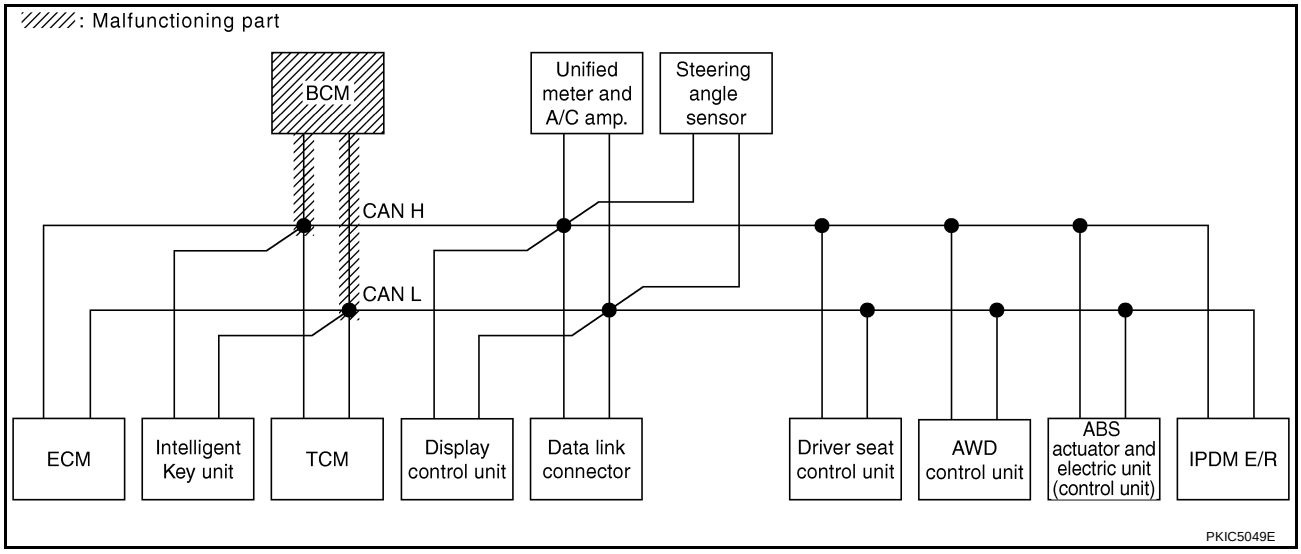
PKIC5048E

Case 8

Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5143E

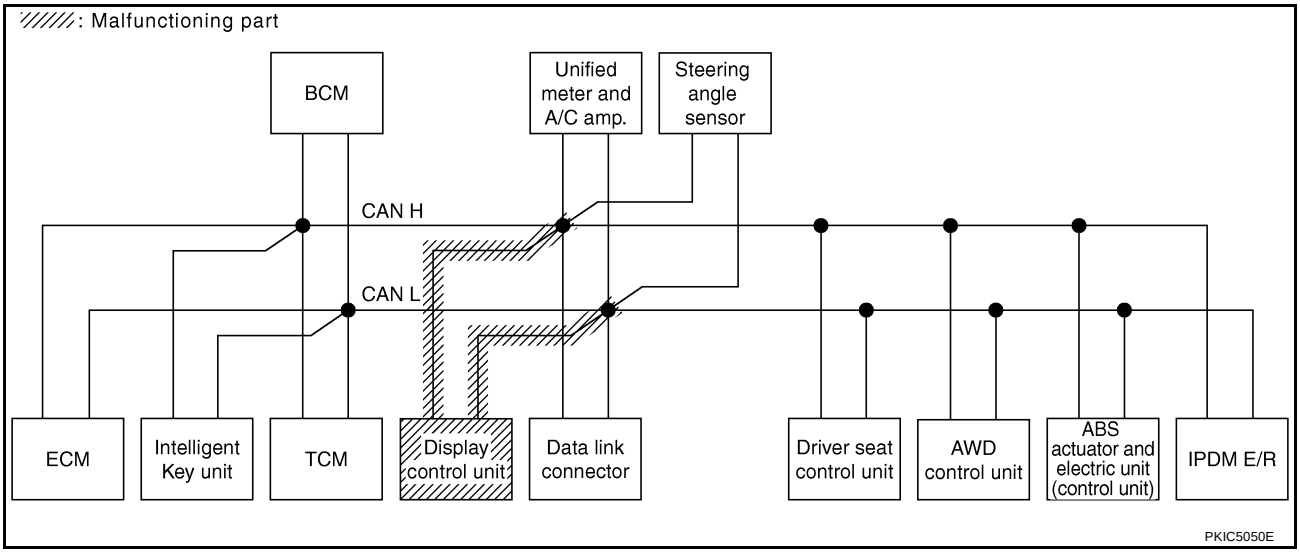


Case 9

Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	—	UNKWN ✓	—	UNKWN ✓	—	—	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN ✓	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5144E



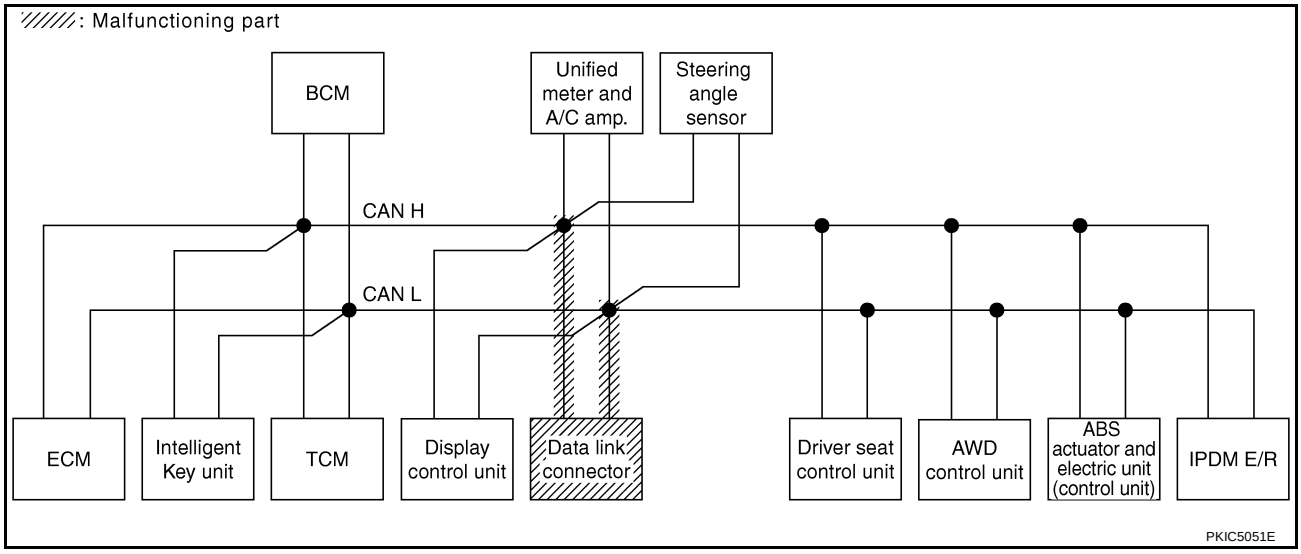
PKIC5050E

Case 10

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5145E



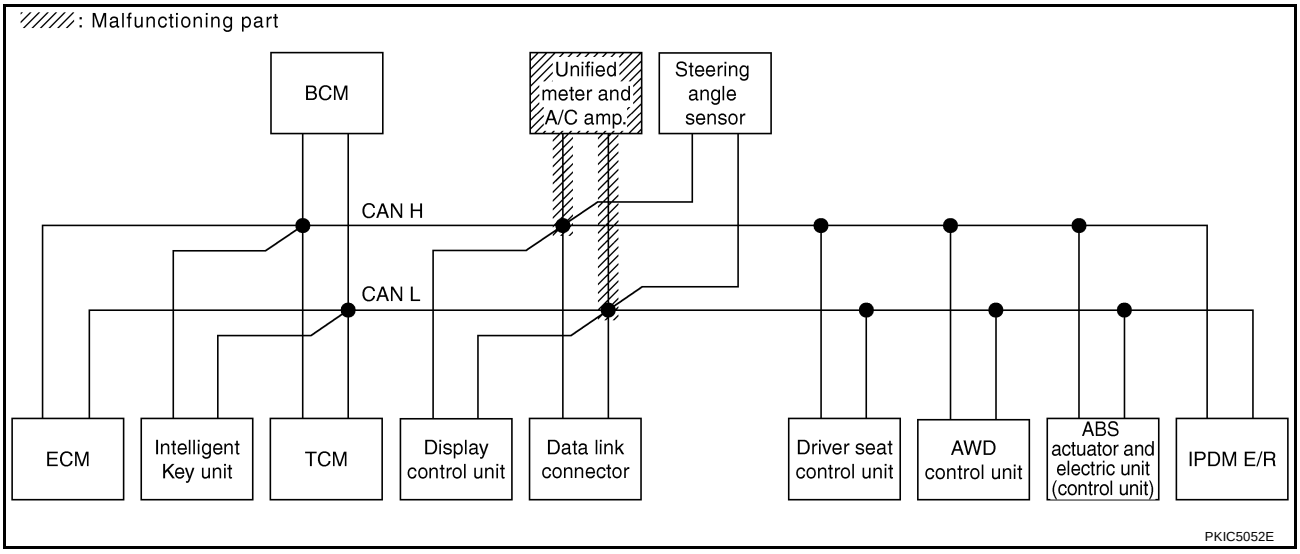
PKIC5051E

Case 11

Check unified meter and A/C amp. circuit. Refer to LAN-166, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5146E



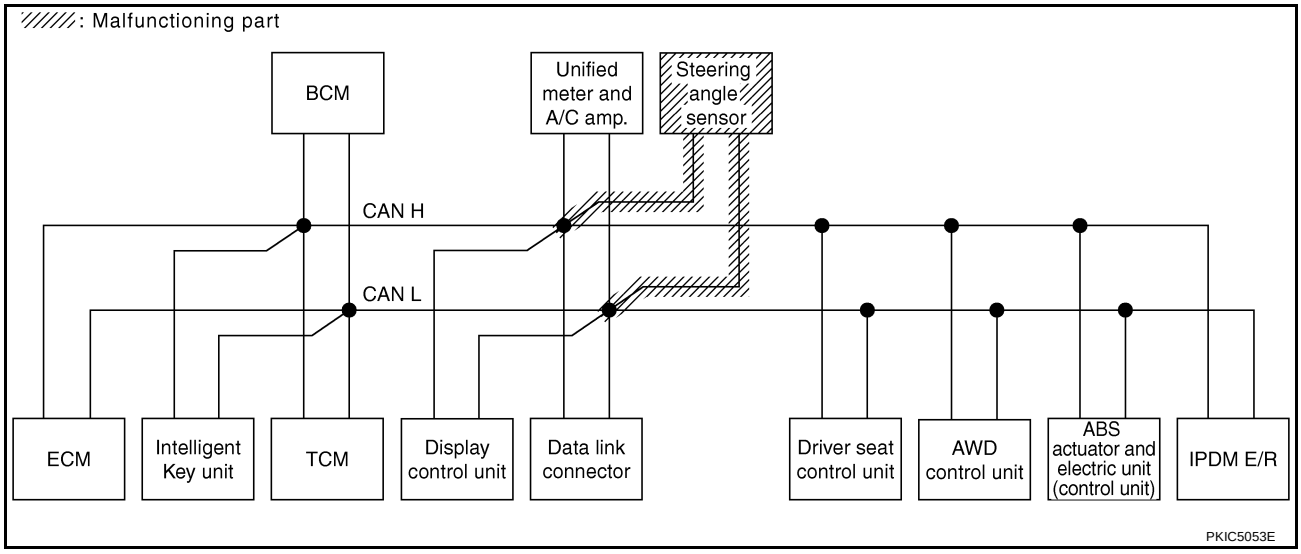
PKIC5052E

Case 12

Check steering angle sensor circuit. Refer to LAN-167, "Steering Angle Sensor Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5147E

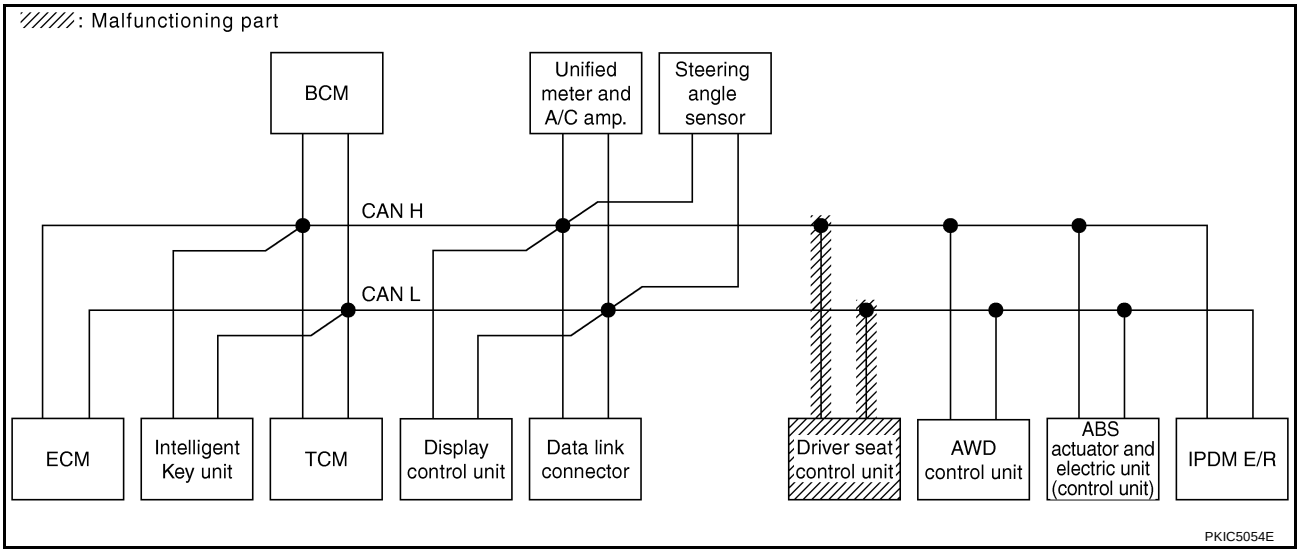


Case 13

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5148E



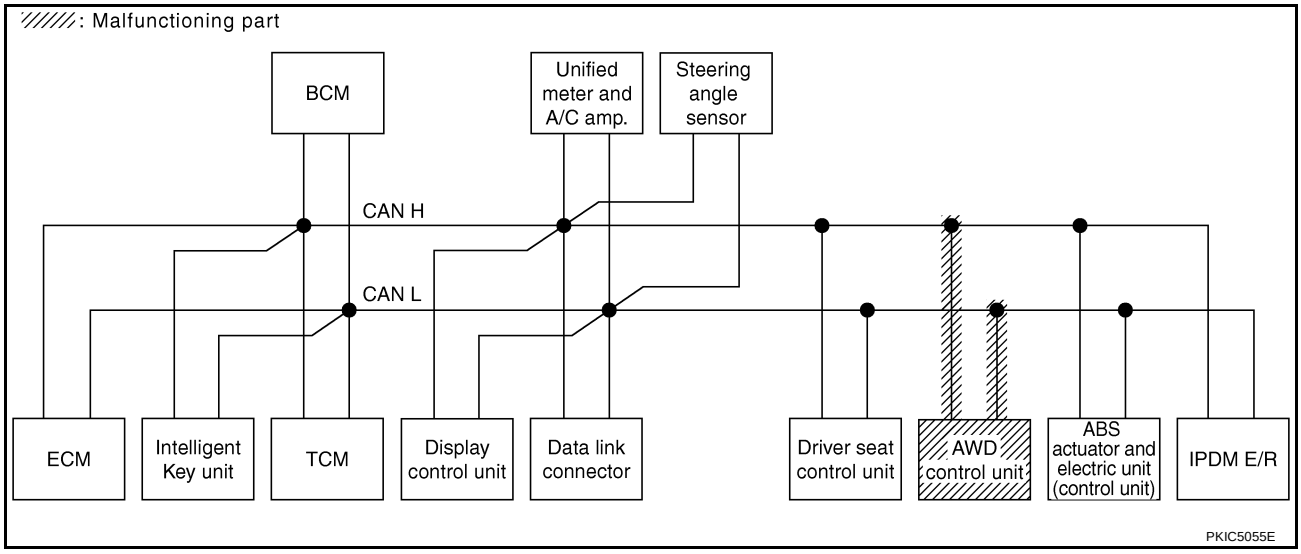
PKIC5054E

Case 14

Check AWD control unit circuit. Refer to LAN-168, "AWD Control Unit Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	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)	—

PKIC5149E

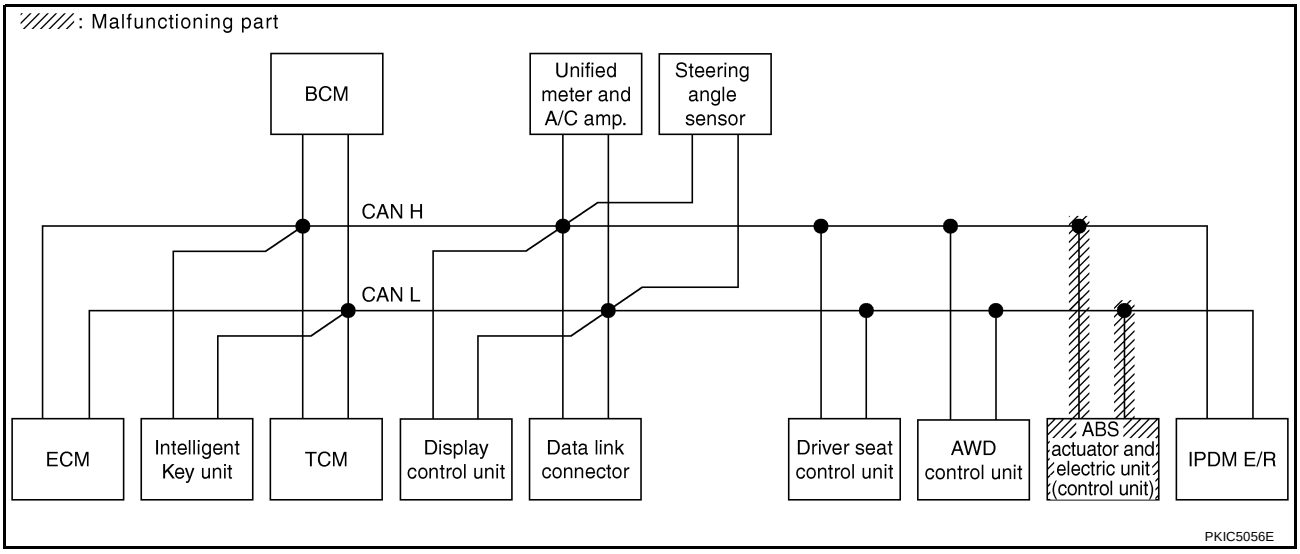


Case 15

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-168, "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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN ✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5150E

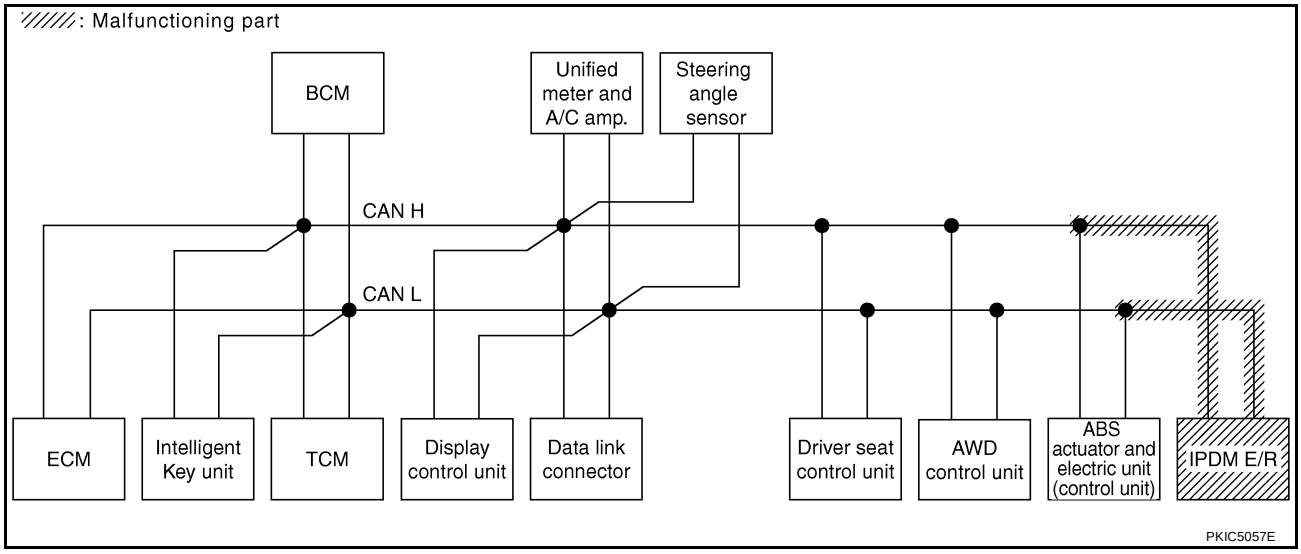


Case 16

Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN ✓	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC5151E



Case 17

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	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	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)	—

PKIC5152E

Case 18

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC5153E

Case 19

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											
				ECM	I-KEY	TCM	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	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)	—

PKIC5154E

TROUBLE DIAGNOSIS FOR SYSTEM

PFP:00000

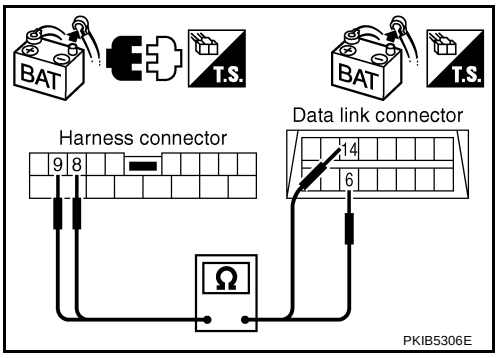
Inspection Between TCM and Data Link Connector Circuit

NKS002L3

1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector and data link connector.

Harness connector		Data link connector		Continuity
Connector	Terminal	Connector	Terminal	
M82	8	M24	6	Yes
	9		14	Yes



OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .

NG >> Repair harness.

Inspection Between Data Link Connector and Driver Seat Control Unit Circuit

NKS002L5

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 M9
- Harness connector B2

OK or NG

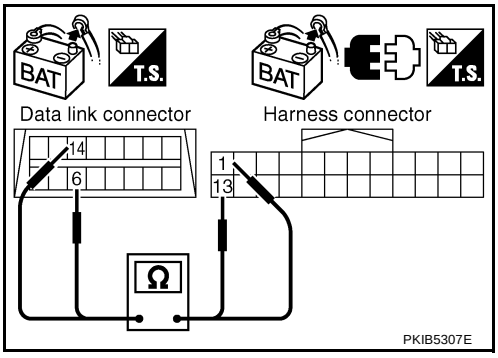
OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M9.
2. Check continuity between data link connector and harness connector.

Data link connector		Harness connector		Continuity
Connector	Terminal	Connector	Terminal	
M24	6	M9	1	Yes
	14		13	Yes



OK or NG

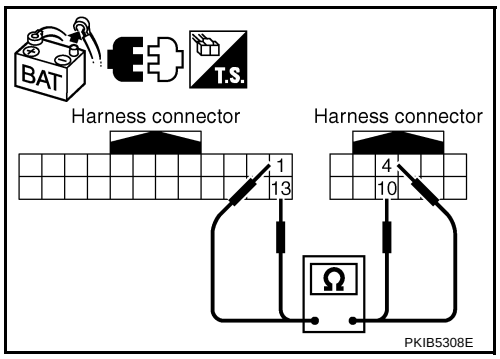
OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B4.
2. Check continuity between harness connectors.

Harness connector		Harness connector		Continuity
Connector	Terminal	Connector	Terminal	
B2	1	B4	4	Yes
	13		10	Yes



OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .
NG >> Repair harness.

Inspection Between Data Link Connector and AWD Control Unit Circuit

NKS002L6

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 M9
- Harness connector B2
- Harness connector B4
- Harness connector E105

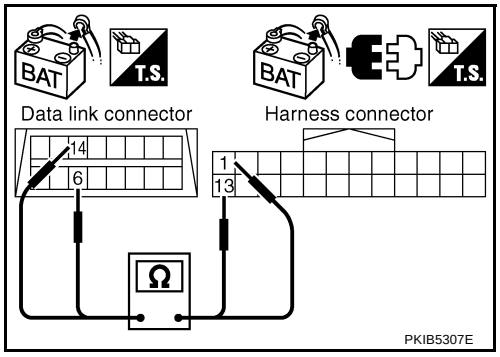
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M9.
2. Check continuity between data link connector and harness connector.

Data link connector		Harness connector		Continuity
Connector	Terminal	Connector	Terminal	
M24	6	M9	1	Yes
	14		13	Yes



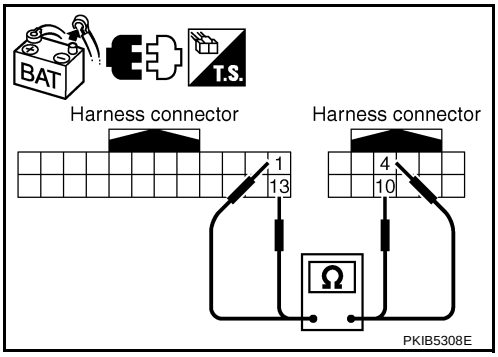
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B4.
2. Check continuity between harness connectors.

Harness connector		Harness connector		Continuity
Connector	Terminal	Connector	Terminal	
B2	1	B4	4	Yes
	13		10	Yes



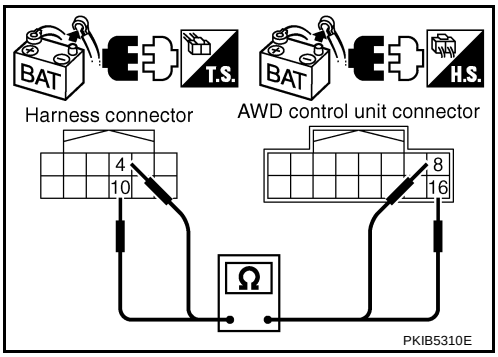
OK or NG

OK >> GO TO 4.
NG >> Repair harness.

4. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check continuity between harness connector and AWD control unit harness connector.

Harness connector		AWD control unit connector		Continuity
Connector	Terminal	Connector	Terminal	
E105	4	E111	8	Yes
	10		16	Yes



OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .
NG >> Repair harness.

Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS002L7

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 M9
- Harness connector B2
- Harness connector B4
- Harness connector E105

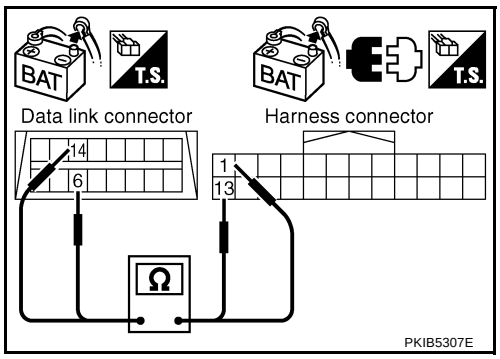
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M9.
2. Check continuity between data link connector and harness connector.

Data link connector		Harness connector		Continuity
Connector	Terminal	Connector	Terminal	
M24	6	M9	1	Yes
	14		13	Yes



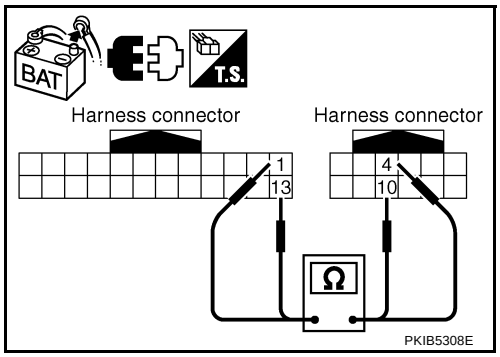
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B4.
2. Check continuity between harness connectors.

Harness connector		Harness connector		Continuity
Connector	Terminal	Connector	Terminal	
B2	1	B4	4	Yes
	13		10	Yes



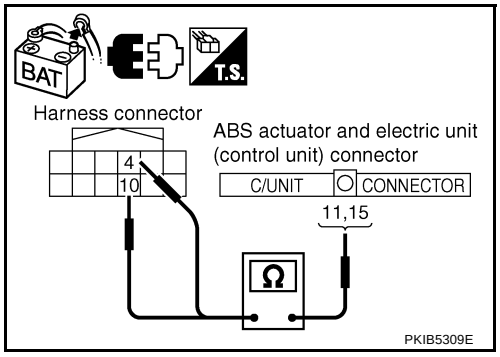
OK or NG

OK >> GO TO 4.
NG >> Repair harness.

4. CHECK HARNESS FOR OPEN CIRCUIT

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

Harness connector		ABS actuator and electric unit (control unit) connector		Continuity
Connector	Terminal	Connector	Terminal	
E105	4	E24	11	Yes
	10		15	Yes



OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .
NG >> Repair harness.

Inspection Between Driver Seat Control Unit and AWD Control Unit Circuit

NKS002L8

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 B4
- Harness connector E105

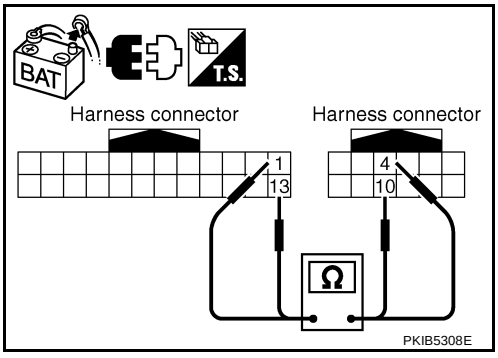
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B2 and harness connector B4.
2. Check continuity between harness connectors.

Harness connector		Harness connector		Continuity
Connector	Terminal	Connector	Terminal	
B2	1	B4	4	Yes
	13		10	Yes



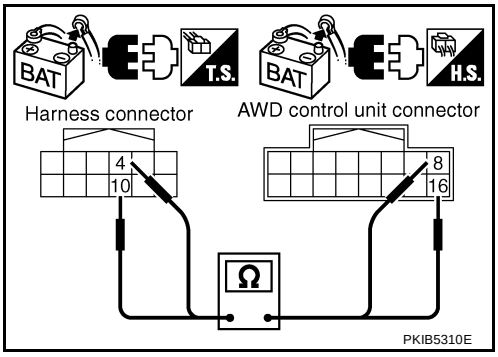
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check continuity between harness connector and AWD control unit harness connector.

Harness connector		AWD control unit connector		Continuity
Connector	Terminal	Connector	Terminal	
E105	4	E111	8	Yes
	10		16	Yes



OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .
NG >> Repair harness.

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

NKS002L9

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 B4
- Harness connector E105

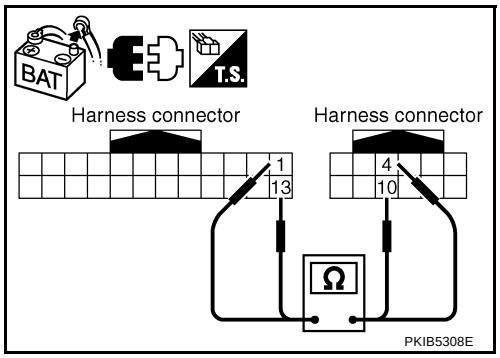
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B2 and harness connector B4.
2. Check continuity between harness connectors.

Harness connector		Harness connector		Continuity
Connector	Terminal	Connector	Terminal	
B2	1	B4	4	Yes
	13		10	Yes



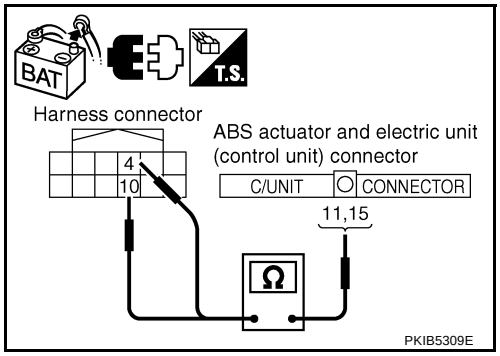
OK or NG

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 and ABS actuator and electric unit (control unit) harness connector.

Harness connector		ABS actuator and electric unit (control unit) connector		Continuity
Connector	Terminal	Connector	Terminal	
E105	4	E24	11	Yes
	10		15	Yes



OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .
NG >> Repair harness.

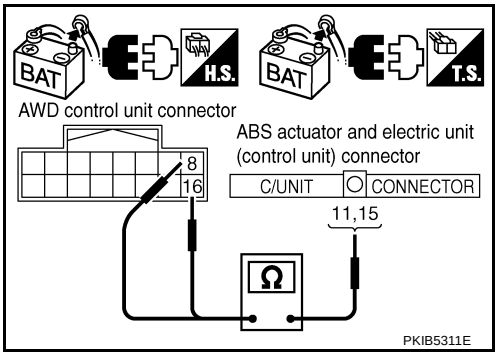
Inspection Between AWD Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

NKS002LA

1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect following connectors.
- ECM connector
- AWD control unit connector
- ABS actuator and electric unit (control unit) connector
4. Check continuity between AWD control unit harness connector and ABS actuator and electric unit (control unit) harness connector.

AWD control unit connector		ABS actuator and electric unit (control unit) connector		Continuity
Connector	Terminal	Connector	Terminal	
E111	8	E24	11	Yes
	16		15	Yes



OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .

NG >> Repair harness.

ECM Circuit Inspection

NKS002LB

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

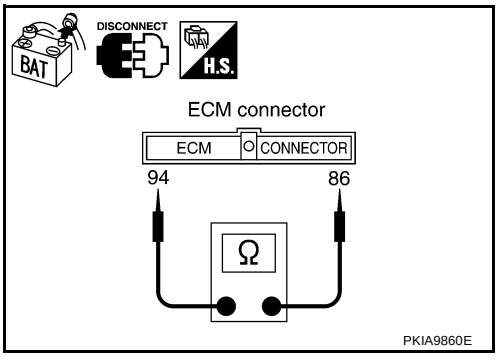
OK >> GO TO 2.

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.)
M80	94	86	108 – 132 Ω



OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM and BCM.

Intelligent Key Unit Circuit Inspection

NKS002LC

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).

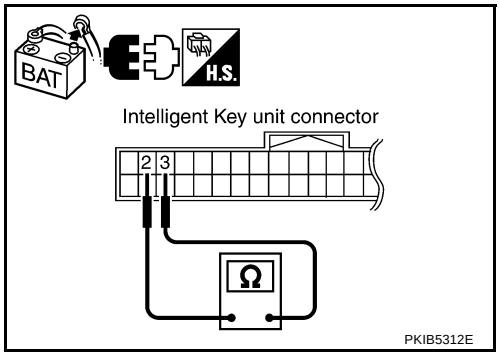
OK or NG

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.)
M99	2	3	54 – 66 Ω



OK or NG

OK >> Replace Intelligent Key unit.
NG >> Repair harness between Intelligent Key unit and BCM.

TCM Circuit Inspection

NKS002LD

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).

- TCM connector
- Harness connector F102
- Harness connector M82

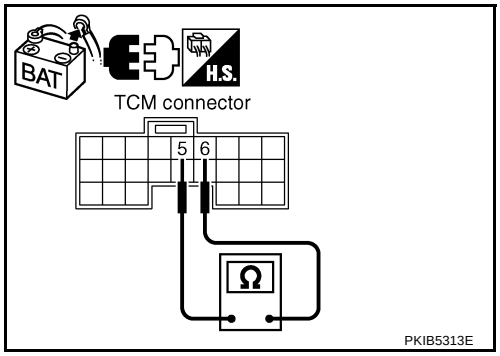
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

TCM connector	Terminal		Resistance (Approx.)
F103	5	6	54 – 66 Ω



OK or NG

OK >> Replace TCM.
NG >> Repair harness between TCM and BCM.

BCM Circuit Inspection

NKS002LE

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).

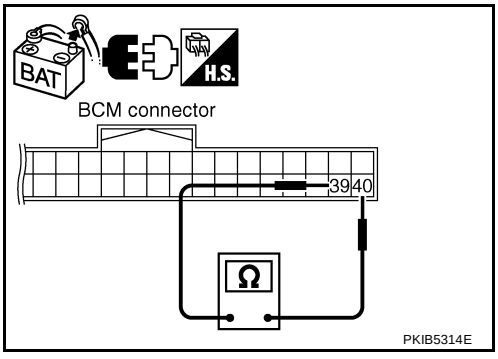
OK or NG

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.)
M34	39	40	54 – 66 Ω



OK or NG

OK >> Replace BCM. Refer to BCS-14, "Removal and Installation of BCM" .
NG >> Repair harness between BCM and harness connector M82.

Display Control Unit Circuit Inspection

NKS002LF

1. CHECK CONNECTOR

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

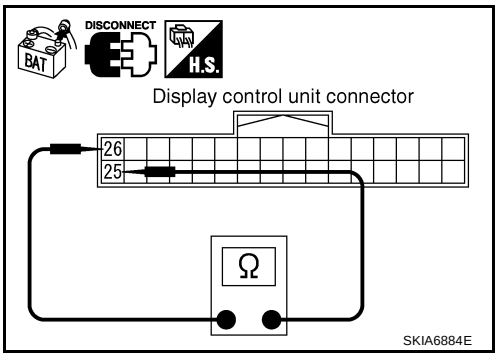
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

Display control unit connector	Terminal		Resistance (Approx.)
M43	25	26	54 – 66 Ω



OK or NG

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

Data Link Connector Circuit Inspection

NKS002LG

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).

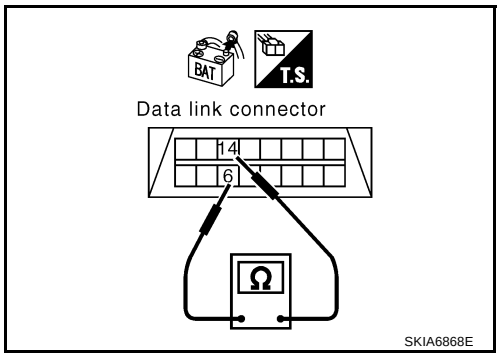
OK or NG

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.)
M24	6	14	54 – 66 Ω



OK or NG

OK >> Diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .
NG >> Repair harness between data link connector and unified meter and A/C amp.

Unified Meter and A/C Amp. Circuit Inspection

NKS002LH

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).

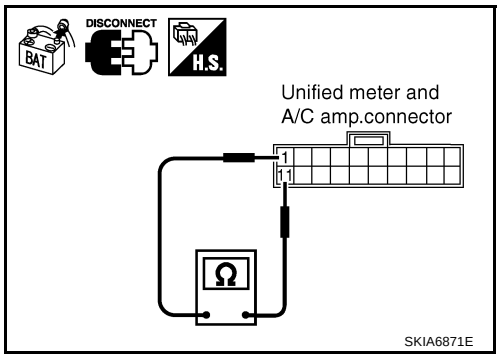
OK or NG

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.)
M49	1	11	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.

Steering Angle Sensor Circuit Inspection

NKS002LI

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).

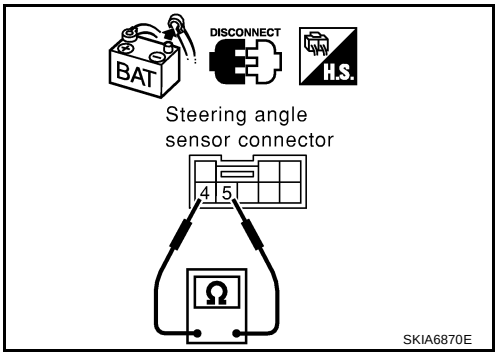
OK or NG

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.)
M33	4	5	54 – 66 Ω



OK or NG

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

Driver Seat Control Unit Circuit Inspection

NKS002LJ

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 B301
- Harness connector B9

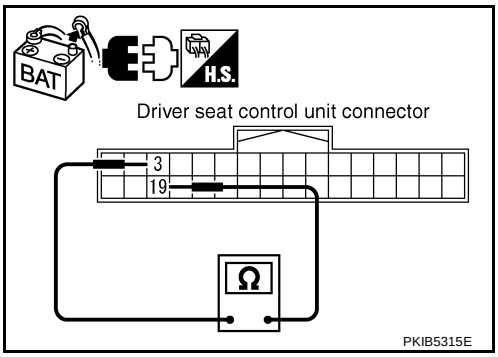
OK or NG

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.)
B303	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 B4.

AWD Control Unit Circuit Inspection

NKS002LK

1. CHECK CONNECTOR

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

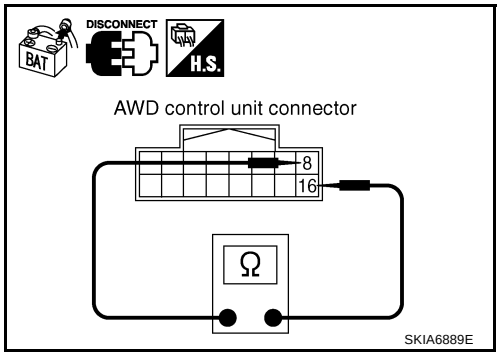
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

AWD control unit connector	Terminal		Resistance (Approx.)
E111	8	16	54 – 66 Ω



OK or NG

OK >> Replace AWD control unit.
NG >> Repair harness between AWD control unit and ABS actuator and electric unit (control unit).

ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

NKS002LL

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).

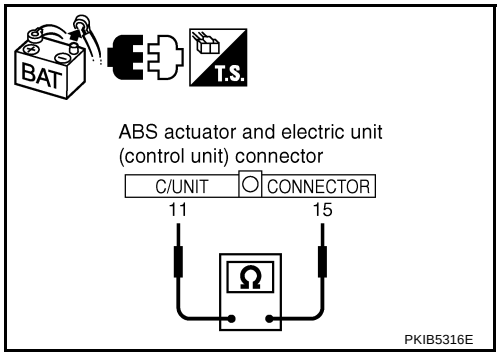
OK or NG

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.)
E24	11	15	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

NKS002LM

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).

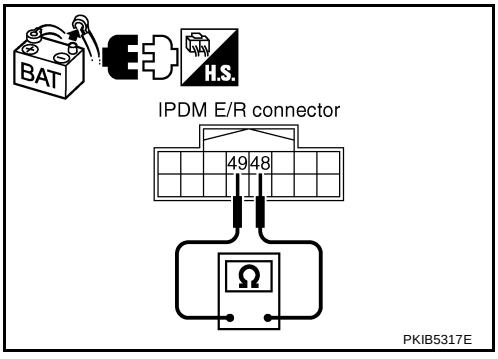
OK or NG

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	48	49	108 – 132 Ω



OK or NG

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

CAN Communication Circuit Inspection

NKS002LN

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the harness connector for each unit on the CAN network and check terminals for deformation, disconnection, looseness or damage.

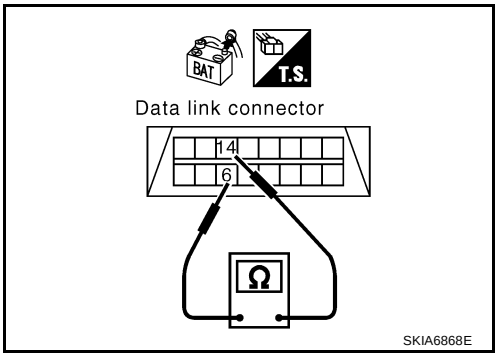
OK or NG

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

2. CHECK HARNESS FOR SHORT CIRCUIT

With all module and control unit connectors disconnected, check continuity between data link connector terminals.

Data link connector	Terminal		Continuity
M24	6	14	No



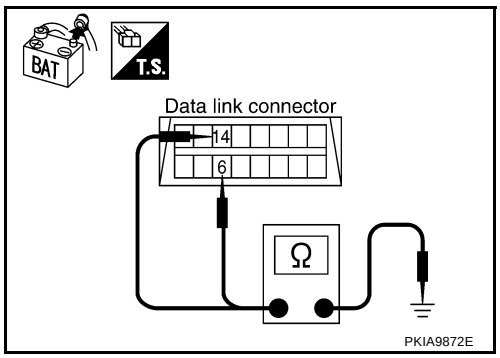
OK or NG

OK >> GO TO 3.
NG >>
- Repair harness.
- Replace harness if shielded lines are used for the harness.

3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

Data link connector	Terminal	Ground	Continuity
M24	6		No
	14		No



OK or NG

OK >> GO TO 4.
NG >>
- Repair harness.
- Replace harness if shielded lines are used for the harness.

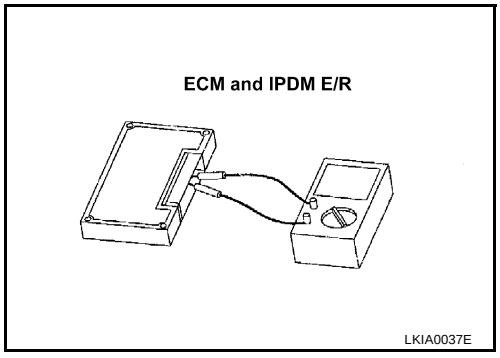
4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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.)
48	49	108 – 132 Ω



OK or NG

OK >> GO TO 5.
NG >> Replace ECM and/or IPDM E/R.

5. 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.

Check results

Reproduced>>GO TO 6.
Not reproduced>>Refer to LAN-15, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced" .

6. UNIT REPRODUCIBILITY INSPECTION

Perform the following procedure for each unit on the CAN network, 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.

NOTE:
Malfunction (related to a unit that the connector is disconnected) is reproduced. Do not confuse the malfunction with the symptom filled in the column of “Symptom” on the check sheet.

Inspection results

Reproduced>>Connect the disconnected connector. Check other units applying the above procedure.
Not reproduced>>Replace the unit that the connector is disconnected.

IPDM E/R Ignition Relay Circuit Inspection

NKS002LO

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

- IPDM E/R power supply circuit. Refer to PG-26, "IPDM E/R Power/Ground Circuit Inspection" .
- Ignition power supply circuit. Refer to PG-10, "IGNITION POWER SUPPLY — IGNITION SW. IN “ON” AND/OR “START”" .