

SECTION **LAN**
LAN SYSTEM

A
B
C

CONTENTS

D
E

CAN

<p>PRECAUTIONS 3</p> <p>Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" 3</p> <p>Precautions When Using CONSULT-II 3</p> <p style="padding-left: 20px;">CHECK POINTS FOR USING CONSULT-II 3</p> <p>Precautions For Trouble Diagnosis 3</p> <p style="padding-left: 20px;">CAN SYSTEM 3</p> <p>Precautions For Harness Repair 4</p> <p style="padding-left: 20px;">CAN SYSTEM 4</p> <p>TROUBLE DIAGNOSES WORK FLOW 5</p> <p>When Displaying CAN Communication System Errors 5</p> <p style="padding-left: 20px;">WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM 5</p> <p style="padding-left: 20px;">WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM 5</p> <p style="padding-left: 20px;">TROUBLE DIAGNOSIS FLOW CHART 6</p> <p>Diagnosis Procedure 7</p> <p style="padding-left: 20px;">SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE) 7</p> <p style="padding-left: 20px;">ACQUISITION OF DATA BY CONSULT-II 8</p> <p style="padding-left: 20px;">HOW TO USE CHECK SHEET TABLE 9</p> <p>CAN Diagnostic Support Monitor 16</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ECM 16</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TCM 17</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ICC UNIT 18</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DRIVER SEAT CONTROL UNIT 19</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR BCM 20</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR FRONT AIR CONTROL.. 21</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT</p>	<p style="padding-left: 20px;">MNTR" SCREEN FOR TRANSFER CONTROL UNIT 22</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) 23</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR IPDM E/R 24</p> <p style="padding-left: 20px;">DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DISPLAY CONTROL UNIT 25</p> <p>CAN COMMUNICATION 26</p> <p style="padding-left: 20px;">System Description 26</p> <p style="padding-left: 20px;">Component Parts and Harness Connector Location.. 26</p> <p style="padding-left: 20px;">Schematic 27</p> <p style="padding-left: 20px;">Wiring Diagram — CAN — 28</p> <p style="padding-left: 20px;">CAN Communication Unit 31</p> <p style="padding-left: 40px;">TYPE 1/TYPE 2 31</p> <p style="padding-left: 40px;">TYPE 3/TYPE 4 35</p> <p>CAN SYSTEM (TYPE 1) 39</p> <p style="padding-left: 20px;">Component Parts and Harness Connector Location.. 39</p> <p style="padding-left: 20px;">Schematic 39</p> <p style="padding-left: 20px;">Wiring Diagram — CAN — 39</p> <p style="padding-left: 20px;">Check Sheet 40</p> <p style="padding-left: 40px;">CHECK SHEET RESULTS (EXAMPLE) 42</p> <p>CAN SYSTEM (TYPE 2) 57</p> <p style="padding-left: 20px;">Component Parts and Harness Connector Location.. 57</p> <p style="padding-left: 20px;">Schematic 57</p> <p style="padding-left: 20px;">Wiring Diagram — CAN — 57</p> <p style="padding-left: 20px;">Check Sheet 58</p> <p style="padding-left: 40px;">CHECK SHEET RESULTS (EXAMPLE) 60</p> <p>CAN SYSTEM (TYPE 3) 79</p> <p style="padding-left: 20px;">Component Parts and Harness Connector Location.. 79</p> <p style="padding-left: 20px;">Schematic 79</p> <p style="padding-left: 20px;">Wiring Diagram — CAN — 79</p> <p style="padding-left: 20px;">Check Sheet 80</p> <p style="padding-left: 40px;">CHECK SHEET RESULTS (EXAMPLE) 82</p> <p>CAN SYSTEM (TYPE 4) 98</p> <p style="padding-left: 20px;">Component Parts and Harness Connector Location.. 98</p> <p style="padding-left: 20px;">Schematic 98</p>
---	--

F
G
H
I
J
LAN

L
M

Wiring Diagram — CAN —	98	TCM Circuit Inspection	129
Check Sheet	99	ICC Sensor Circuit Inspection	129
CHECK SHEET RESULTS (EXAMPLE)	102	ICC Unit Circuit Inspection	130
TROUBLE DIAGNOSIS FOR SYSTEM	123	Driver Seat Control Unit Circuit Inspection	130
Inspection Between TCM and ICC Sensor Circuit	123	Combination Meter Circuit Inspection	131
Inspection Between TCM and Driver Seat Control		Display Control Unit Circuit Inspection	131
Unit Circuit	124	BCM Circuit Inspection	132
Inspection Between ICC Sensor and ICC Unit Cir-		Data Link Connector Circuit Inspection	132
cuit	125	Steering Angle Sensor Circuit Inspection	133
Inspection Between ICC Unit and Driver Seat Con-		Front Air Control Circuit Inspection	133
trol Unit Circuit	126	Transfer Control Unit Circuit Inspection	134
Inspection Between Driver Seat Control Unit and		ABS Actuator and Electric Unit (Control Unit) Circuit	
Data Link Connector Circuit	126	Inspection	134
Inspection Between Data Link Connector and ABS		IPDM E/R Circuit Inspection	135
Actuator and Electric Unit (Control Unit) Circuit ...	127	CAN Communication Circuit Inspection	135
ECM Circuit Inspection	128	IPDM E/R Ignition Relay Circuit Inspection	137

PRECAUTIONS

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

UKS0017I

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

UKS0017J

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

CAUTION:

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

CHECK POINTS FOR USING CONSULT-II

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

Precautions For Trouble Diagnosis CAN SYSTEM

UKS0017K

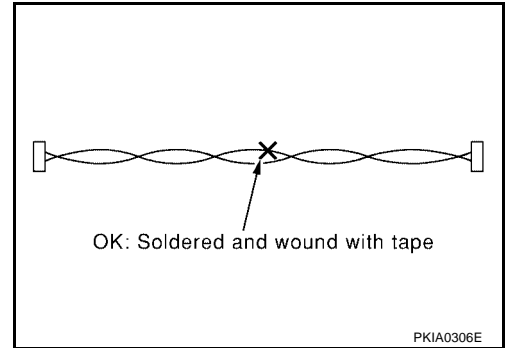
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

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

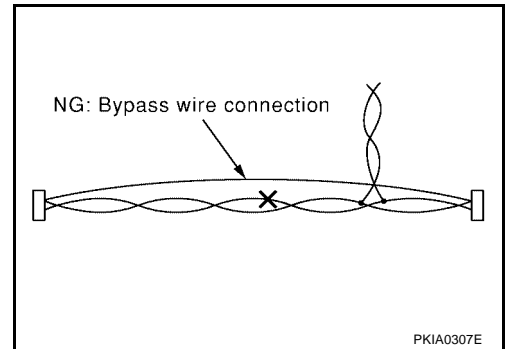
LAN

Precautions For Harness Repair CAN SYSTEM

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



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



TROUBLE DIAGNOSES WORK FLOW

PFP:00004

When Displaying CAN Communication System Errors

UKS004SS

WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

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

WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

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

A

B

C

D

E

F

G

H

I

J

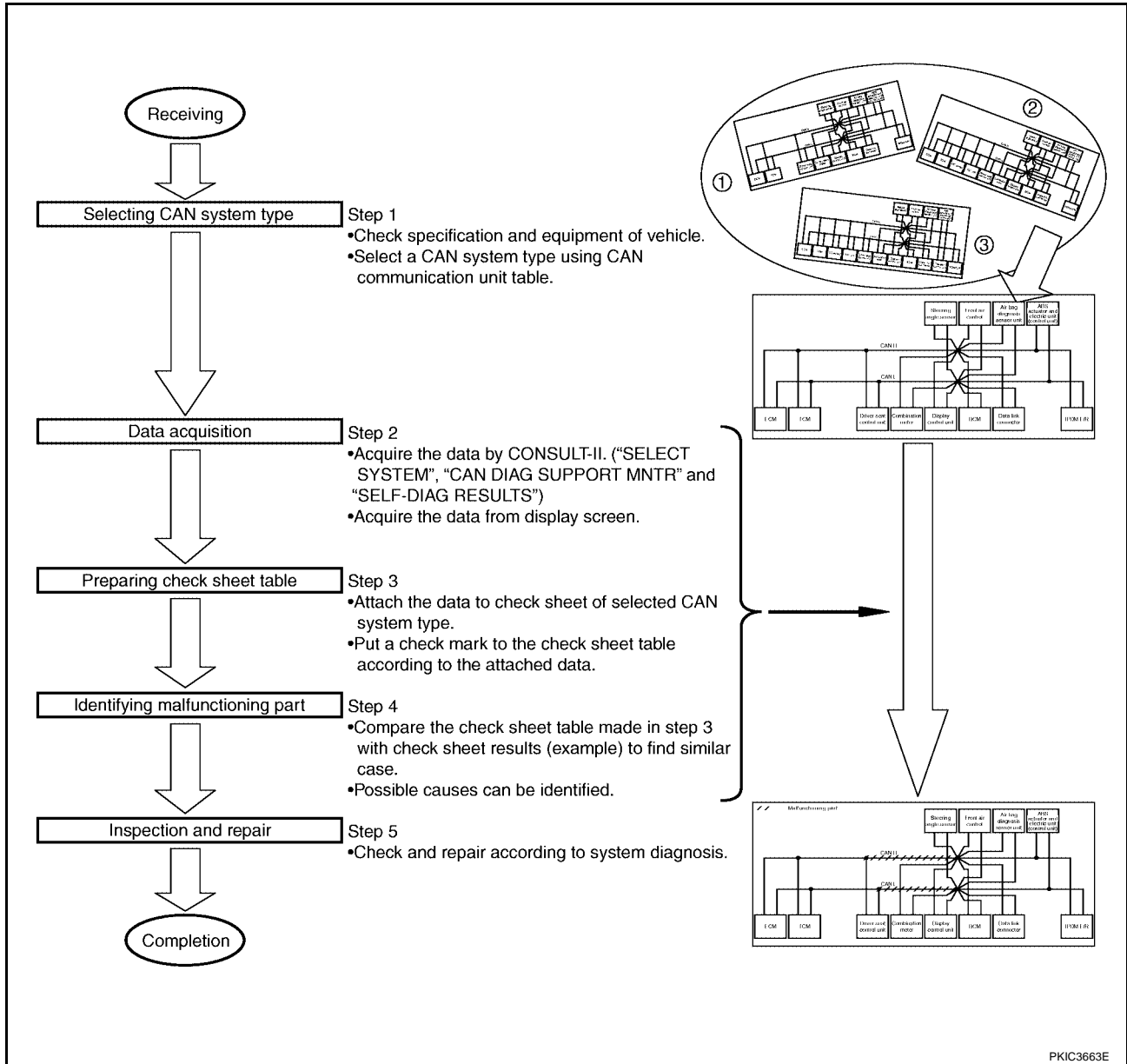
LAN

L

M

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-9, "HOW TO USE CHECK SHEET TABLE"](#) .
- Step 4: Refer to [LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- Step 5: Refer to [LAN-123, "TROUBLE DIAGNOSIS FOR SYSTEM"](#) .

Diagnosis Procedure

SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)

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

(Example) Wagon/2WD/VK56DE/AT/VDC/Without ICC system

CAN Communication Unit

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

Body type	Wagon			
Axle	2WD			
Engine	VK56DE			
Transmission	A/T			
Brake control	VDC			
ICC system		x		x
CAN system type	1	2	3	4
CAN system trouble diagnosis	X.X.X	X.X.X	X.X.X	X.X.X

Check basic specification of the vehicle.

Select "x" if it is model with ICC 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 1.

x: Applicable

PKIC3664E

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

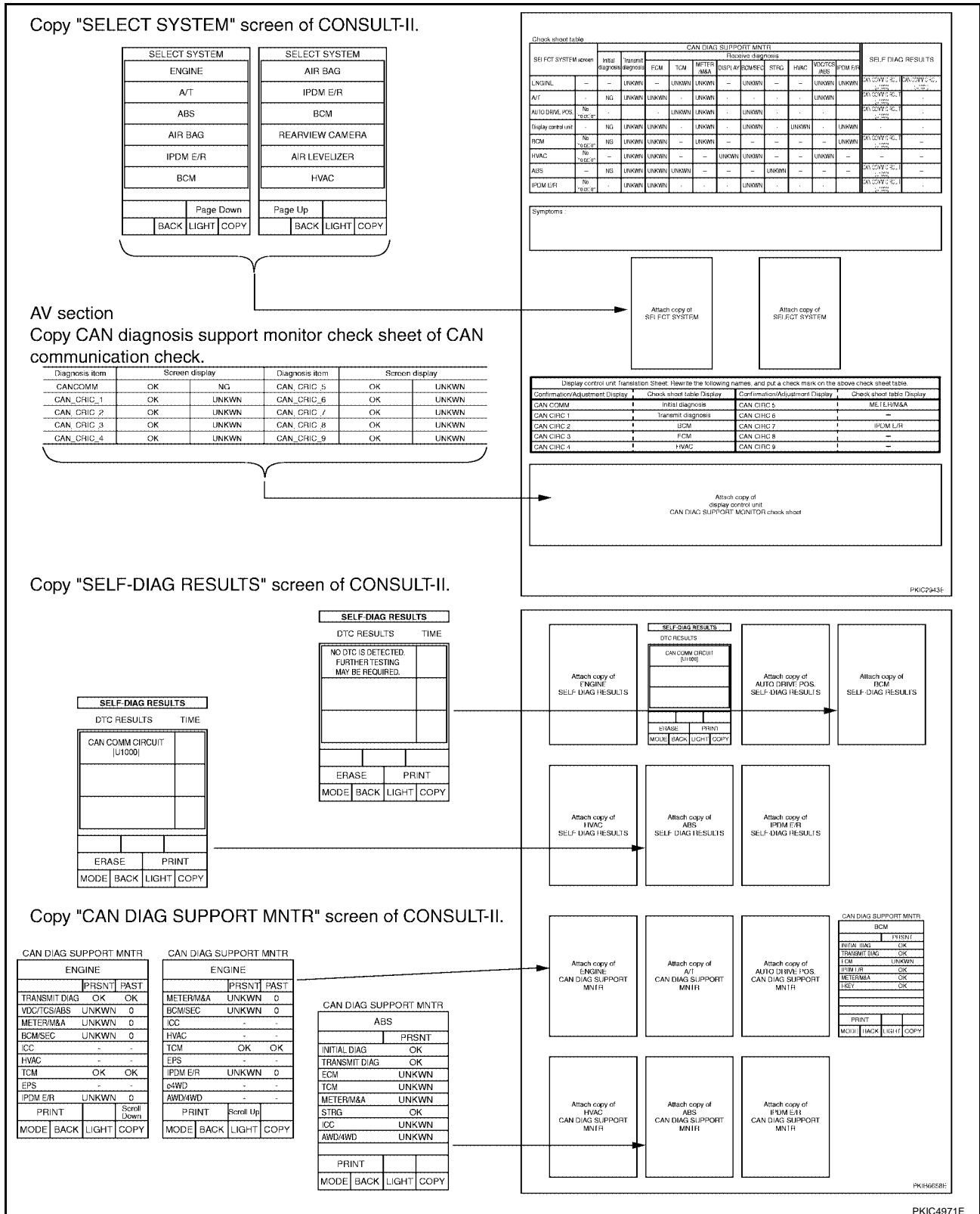
LAN

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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 the CAN diagnosis support monitor check sheet [AV-140, "CAN Communication Line Check"](#).)



HOW TO USE CHECK SHEET TABLE

Use when the initial conditions are reproduced
Use when the initial conditions are not reproduced

CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS					
SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
ENGINE	A/T	AUTO DRIVE POS.	Display control unit	BCM	HVAC	ABS	IPDM E/R	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC			STRG	HVAC	VDC/TCS /ABS	IPDM E/R
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	No indication	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	No indication	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	No indication	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	No indication	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	No indication	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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)

③ "--": Column not used (Unit communicating with CONSULT-II excluding CAN communication line)

④ "NG": Display "NG" when malfunction is detected in the initial diagnosis of the diagnosed unit. Replace the unit if "NG" is displayed.

⑤ "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.

⑥ "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.

⑦ "--": Column not used (It is not necessary for CAN communication trouble diagnosis.)

PKIC3656E

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)
3. "NG": Display "NG" when malfunction is detected in the initial diagnosis of the diagnosed unit. Replace the unit if "NG" is displayed.
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.

NOTE:

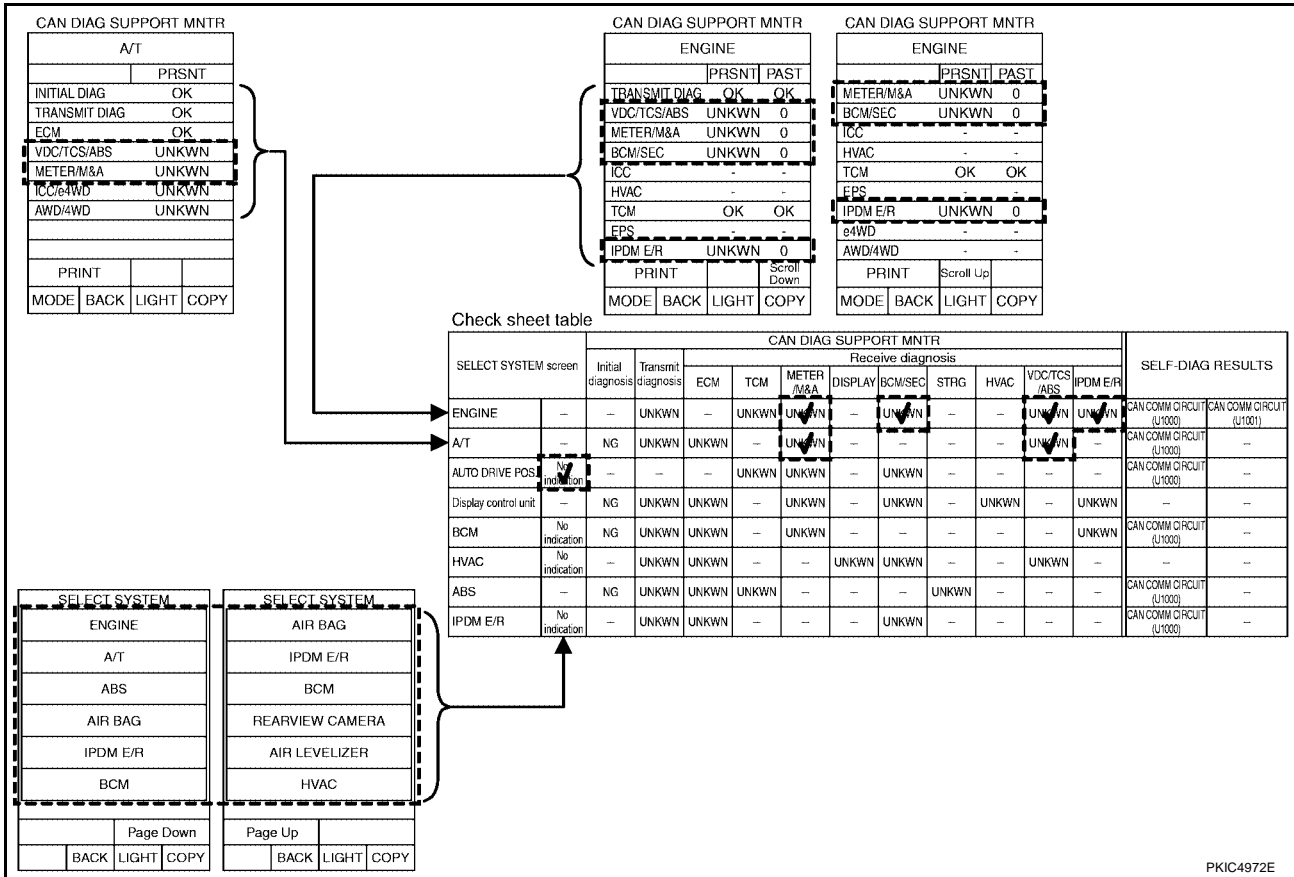
CAN communication diagnosis checks if CAN communication works normally. (Contents of data are not diagnosed.)

- When the initial conditions are reproduced, refer to [LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- When the initial conditions are not reproduced, refer to [LAN-14, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#) .

TROUBLE DIAGNOSES WORK FLOW

[CAN]

Example of Filling in Check Sheet When Initial Conditions Are Reproduced



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

NOTE:

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

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

NOTE:

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

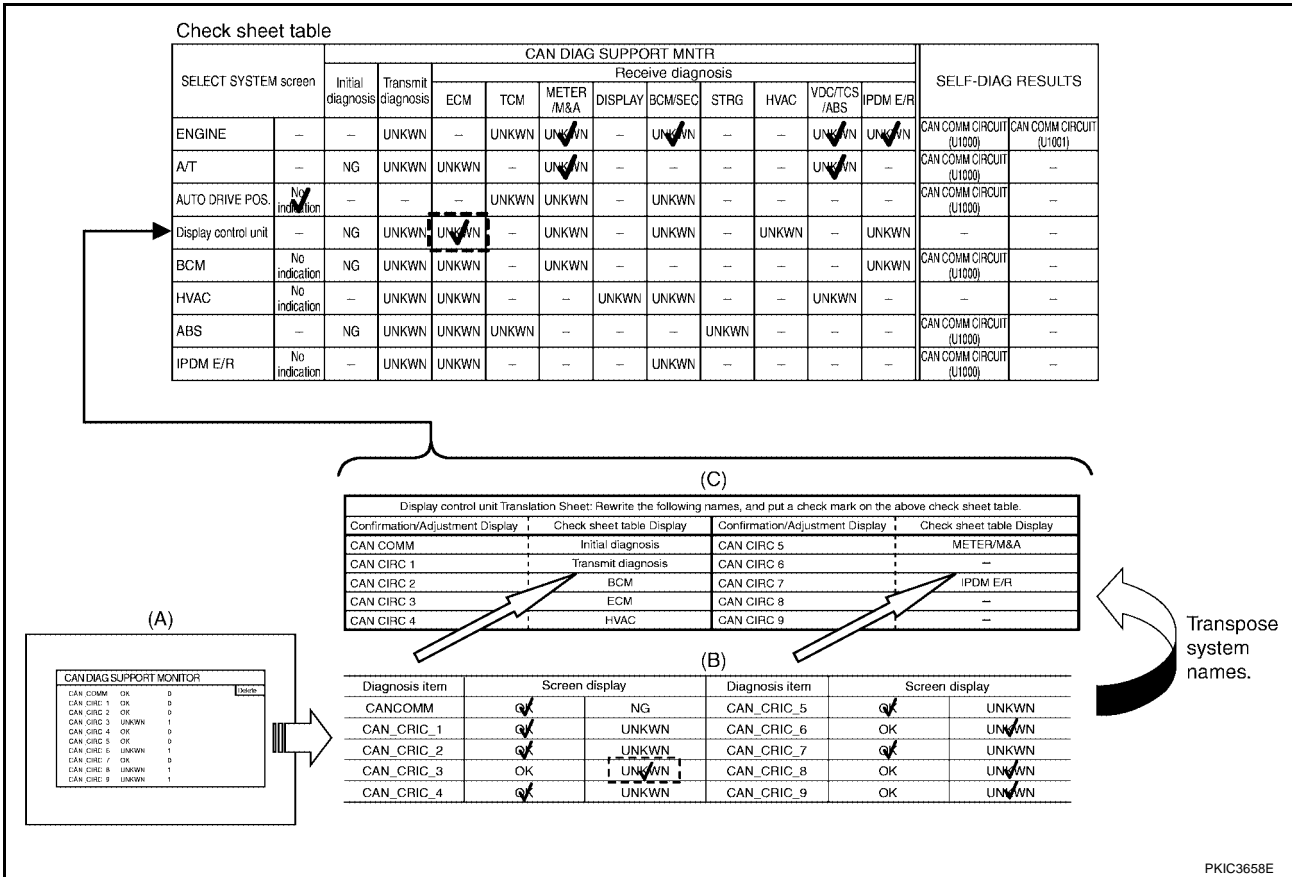
- Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "A/T" as well as "ENGINE". And then, put a check mark to the check sheet table.

NOTE:

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]



- Display control unit reads the CAN diagnosis support monitor check sheet (B) [AV-140, "CAN Communication Line Check"](#) transferred from the display screen (A). The transferred CAN diagnosis support monitor check sheet is copied to the Check sheet, and conversed according to the Display control unit Translation Sheet (C). And then put a check mark to the check sheet table.

NOTE:

In the CAN diagnosis support monitor check sheet (B), check marks are put to "CAN CIRC 3", "CAN CIRC 6", "CAN CIRC 8" and "CAN CIRC 9". But, in the column of the check sheet table indication in Display control unit Translation Sheet (C), "ECM" is listed only for "CAN CIRC 3". Therefore, put a check mark to "ECM" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			IPDM E/R	
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

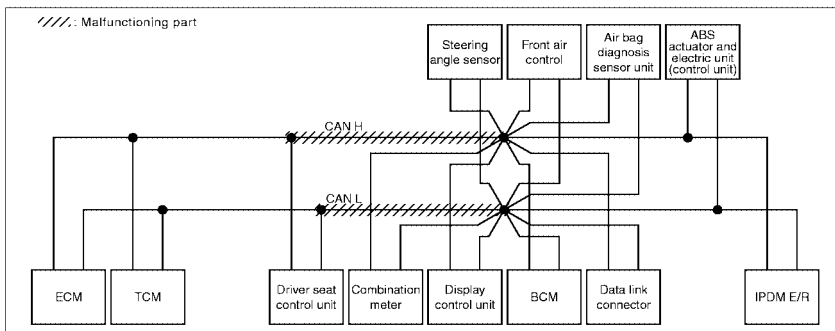
Choose similar indications between the results of CAN diagnosis support monitor and the results of the check sheet. Malfunctioning parts are found.

Case 2

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

Check sheet results (example)

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



PKIC360E

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-31, "CAN Communication Unit"](#).

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

Check sheet table

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis											
			ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1001]
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT [U1000]	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT [U1000]	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT [U1000]	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-

SYSTEM ENGINE

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT 11

[U1001]

SYSTEM A/T

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT 1

[U1000]

SYSTEM AUTO DRIVE POS.

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT 1

[U1000]

SYSTEM BCM

SELF-DIAG RESULTS

DTC RESULTS TIME

NO DTC IS DETECTED.

FURTHER TESTING

MAY BE REQUIRED.

SYSTEM HVAC

SELF-DIAG RESULTS

DTC RESULTS TIME

NO DTC IS DETECTED.

FURTHER TESTING

MAY BE REQUIRED.

SYSTEM ABS

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT 1

[U1000]

SYSTEM IPDM E/R

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT PAST

[U1000]

PKIC3661E

- See "SELF-DIAG RESULTS" of all units attached to the check sheet. If "CAN COMM CIRCUIT" or "CAN COMM CIRCUIT [U1000]" 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 "A/T", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "AUTO DRIVE POS.", "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 "HVAC", "NO DTC IS DETECTED" is displayed. Do not 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.

TROUBLE DIAGNOSES WORK FLOW

[CAN]

The arranged results of self-diagnosis

Check sheet table

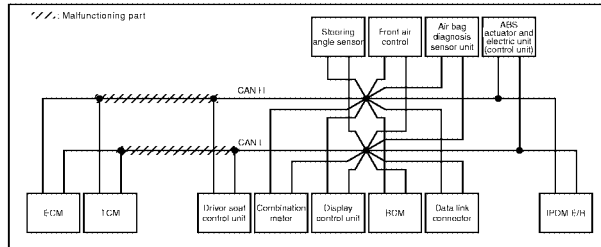
SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS				
			Receive diagnosis														
			ECM	TCM	METER M/A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/CS/ABS	IPDM E/R						
ENGINE	-	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
A/T	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
BCM	No indication	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
HVAC	No indication	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]

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

Case 1

Check harness between TCM and driver seat control unit.

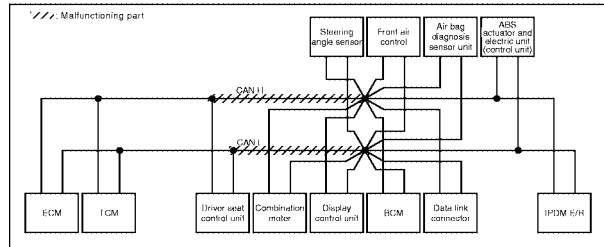
SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS				
			Receive diagnosis														
			ECM	TCM	METER M/A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/CS/ABS	IPDM E/R						
ENGINE	-	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
A/T	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
BCM	No indication	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
HVAC	No indication	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]



Case 2

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

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS				
			Receive diagnosis														
			ECM	TCM	METER M/A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/CS/ABS	IPDM E/R						
ENGINE	-	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
A/T	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
BCM	No indication	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
HVAC	No indication	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]



PKIC3662E

NOTE:

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

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

UKS004SU

CAN Diagnostic Support Monitor DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR ECM

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR																																																																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="3">ENGINE</th></tr> <tr><td></td><th>PRSNT</th><th>PAST</th></tr> <tr><td>TRANSMIT DIAG</td><td>OK</td><td>OK</td></tr> <tr><td>VDC/TCS/ABS</td><td>OK</td><td>OK</td></tr> <tr><td>METER/M&A</td><td>OK</td><td>OK</td></tr> <tr><td>BCM/SEC</td><td>OK</td><td>OK</td></tr> <tr><td>ICC</td><td>-</td><td>-</td></tr> <tr><td>HVAC</td><td>-</td><td>-</td></tr> <tr><td>TCM</td><td>OK</td><td>OK</td></tr> <tr><td>EPS</td><td>-</td><td>-</td></tr> <tr><td>IPDM E/R</td><td>OK</td><td>OK</td></tr> <tr><td>PRINT</td><td></td><td>Scroll Down</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT COPY</td></tr> </table>	ENGINE				PRSNT	PAST	TRANSMIT DIAG	OK	OK	VDC/TCS/ABS	OK	OK	METER/M&A	OK	OK	BCM/SEC	OK	OK	ICC	-	-	HVAC	-	-	TCM	OK	OK	EPS	-	-	IPDM E/R	OK	OK	PRINT		Scroll Down	MODE	BACK	LIGHT COPY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="3">ENGINE</th></tr> <tr><td></td><th>PRSNT</th><th>PAST</th></tr> <tr><td>METER/M&A</td><td>OK</td><td>OK</td></tr> <tr><td>BCM/SEC</td><td>OK</td><td>OK</td></tr> <tr><td>ICC</td><td>-</td><td>-</td></tr> <tr><td>HVAC</td><td>-</td><td>-</td></tr> <tr><td>TCM</td><td>OK</td><td>OK</td></tr> <tr><td>EPS</td><td>-</td><td>-</td></tr> <tr><td>IPDM E/R</td><td>OK</td><td>OK</td></tr> <tr><td>e4WD</td><td>-</td><td>-</td></tr> <tr><td>AWD/4WD</td><td>OK</td><td>OK</td></tr> <tr><td>PRINT</td><td></td><td>Scroll Up</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT COPY</td></tr> </table>	ENGINE				PRSNT	PAST	METER/M&A	OK	OK	BCM/SEC	OK	OK	ICC	-	-	HVAC	-	-	TCM	OK	OK	EPS	-	-	IPDM E/R	OK	OK	e4WD	-	-	AWD/4WD	OK	OK	PRINT		Scroll Up	MODE	BACK
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																																																																													
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																																																																													
		PKIC3562E																																																																													

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
ENGINE	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	ICC	Make sure of normal reception from ICC unit.	OK/UNKWN/-	
	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 transfer control unit.	OK/UNKWN/-		

Display Results (Present)

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

Display Results (Past)

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TCM

(Example)

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

SKIB2335E

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

Display Results (Present)

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

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

LAN

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR																																																																																																							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="4" style="text-align: center;">ICC</td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: center;">PRSNT</td></tr> <tr><td>INITIAL DIAG</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>TRANSMIT DIAG</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>ECM</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>VDC/TCS/ABS</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>TCM</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>METER/M&A</td><td colspan="3" style="text-align: center;">UNKWN</td></tr> <tr><td>LANE KEEP</td><td colspan="3" style="text-align: center;">UNKWN</td></tr> <tr><td>ECM(I)</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>ICC SENSOR</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td colspan="2" style="text-align: center;">PRINT</td><td colspan="2" style="text-align: center;">Scroll Down</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT</td><td>COPY</td></tr> </table>	ICC						PRSNT		INITIAL DIAG	OK			TRANSMIT DIAG	OK			ECM	OK			VDC/TCS/ABS	OK			TCM	OK			METER/M&A	UNKWN			LANE KEEP	UNKWN			ECM(I)	OK			ICC SENSOR	OK			PRINT		Scroll Down		MODE	BACK	LIGHT	COPY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="4" style="text-align: center;">ICC</td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: center;">PRSNT</td></tr> <tr><td>LANE KEEP</td><td colspan="3" style="text-align: center;">UNKWN</td></tr> <tr><td>ECM(I)</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>ICC SENSOR</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>STRG</td><td colspan="3" style="text-align: center;">UNKWN</td></tr> <tr><td>METER/M&A(I)</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>ERROR(I)</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td>LANE DETECTOR</td><td colspan="3" style="text-align: center;">UNKWN</td></tr> <tr><td>TCM(I)</td><td colspan="3" style="text-align: center;">UNKWN</td></tr> <tr><td>BCM/SEC</td><td colspan="3" style="text-align: center;">OK</td></tr> <tr><td colspan="2" style="text-align: center;">PRINT</td><td colspan="2" style="text-align: center;">Scroll Up</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT</td><td>COPY</td></tr> </table>	ICC						PRSNT		LANE KEEP	UNKWN			ECM(I)	OK			ICC SENSOR	OK			STRG	UNKWN			METER/M&A(I)	OK			ERROR(I)	OK			LANE DETECTOR	UNKWN			TCM(I)	UNKWN			BCM/SEC	OK			PRINT		Scroll Up		MODE	BACK	LIGHT
ICC																																																																																																									
		PRSNT																																																																																																							
INITIAL DIAG	OK																																																																																																								
TRANSMIT DIAG	OK																																																																																																								
ECM	OK																																																																																																								
VDC/TCS/ABS	OK																																																																																																								
TCM	OK																																																																																																								
METER/M&A	UNKWN																																																																																																								
LANE KEEP	UNKWN																																																																																																								
ECM(I)	OK																																																																																																								
ICC SENSOR	OK																																																																																																								
PRINT		Scroll Down																																																																																																							
MODE	BACK	LIGHT	COPY																																																																																																						
ICC																																																																																																									
		PRSNT																																																																																																							
LANE KEEP	UNKWN																																																																																																								
ECM(I)	OK																																																																																																								
ICC SENSOR	OK																																																																																																								
STRG	UNKWN																																																																																																								
METER/M&A(I)	OK																																																																																																								
ERROR(I)	OK																																																																																																								
LANE DETECTOR	UNKWN																																																																																																								
TCM(I)	UNKWN																																																																																																								
BCM/SEC	OK																																																																																																								
PRINT		Scroll Up																																																																																																							
MODE	BACK	LIGHT	COPY																																																																																																						

PKIC3846E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
ICC	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
	TCM	Make sure of normal reception from TCM.	OK/UNKWN
	METER/M&A	METER/M&A is not diagnosed.	UNKWN
	LANE KEEP	LANE KEEP is not diagnosed.	UNKWN
	ECM(I)	ECM(I) is not diagnosed.	OK
	ICC SENSOR	Make sure of normal reception from ICC sensor.	OK/UNKWN
	STRG	STRG is not diagnosed.	UNKWN
	METER/M&A(I)	Make sure of normal reception from combination meter (as a laser radar sensor). (Not available for CAN system diagnosis.)	OK/UNKWN
	ERROR(I)	ERROR(I) is not diagnosed.	OK
	LANE DETECTOR	LANE DETECTOR is not diagnosed.	UNKWN
	TCM(I)	TCM(I) is not diagnosed.	UNKWN
BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN	

Display Results (Present)

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR DRIVER SEAT CONTROL UNIT

(Example)

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

PKIC4864E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
AUTO DRIVE POS.	TRANSMIT DIAG	TRANSMIT DIAG is not diagnosed.	-	OK/0/1~39/-
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-	

Display Results (Present)

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

Display Results (Past)

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

A
B
C
D
E
F
G
H
I
J

LAN

L
M

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

SKIB1625E

“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 combination meter.	OK/UNKWN
	I-KEY	I-KEY is not diagnosed.	OK

Display Results (Present)

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR FRONT AIR CONTROL

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR																																																																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">HVAC</td></tr> <tr><td style="text-align: center;">PRSENT</td><td style="text-align: center;">PAST</td><td></td></tr> <tr><td>TRANSMIT DIAG</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>ECM</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>TCM</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>BCM/SEC</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>VDC/TCS/ABS</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>IPDM E/R</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>DISPLAY</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>I-KEY</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>EPS</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">PRINT</td><td></td><td style="text-align: center;">Scroll Down</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT COPY</td></tr> </table>	HVAC			PRSENT	PAST		TRANSMIT DIAG	OK	OK	ECM	OK	OK	TCM	-	-	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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">HVAC</td></tr> <tr><td style="text-align: center;">PRSENT</td><td style="text-align: center;">PAST</td><td></td></tr> <tr><td>IPDM E/R</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>DISPLAY</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>I-KEY</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>EPS</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>AWD/4WD</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>e4WD</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>ICC</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>LANE KEEP</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>TIRE-P</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">PRINT</td><td></td><td style="text-align: center;">Scroll Up</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT COPY</td></tr> </table>	HVAC			PRSENT	PAST		IPDM E/R	-	-	DISPLAY	OK	OK	I-KEY	-	-	EPS	-	-	AWD/4WD	-	-	e4WD	-	-	ICC	-	-	LANE KEEP	-	-	TIRE-P	-	-	PRINT		Scroll Up	MODE	BACK
HVAC																																																																															
PRSENT	PAST																																																																														
TRANSMIT DIAG	OK	OK																																																																													
ECM	OK	OK																																																																													
TCM	-	-																																																																													
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																																																																													
HVAC																																																																															
PRSENT	PAST																																																																														
IPDM E/R	-	-																																																																													
DISPLAY	OK	OK																																																																													
I-KEY	-	-																																																																													
EPS	-	-																																																																													
AWD/4WD	-	-																																																																													
e4WD	-	-																																																																													
ICC	-	-																																																																													
LANE KEEP	-	-																																																																													
TIRE-P	-	-																																																																													
PRINT		Scroll Up																																																																													
MODE	BACK	LIGHT COPY																																																																													

PKIC4721E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past
HVAC	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	TCM	TCM is not diagnosed.	-	
	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	AWD/4WD is not diagnosed.	-	
	e4WD	e4WD is not diagnosed.	-	
	ICC	ICC is not diagnosed.	-	
	LANE KEEP	LANE KEEP is not diagnosed.	-	
TIRE-P	TIRE-P is not diagnosed.	-		

Display Results (Present)

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

Display Results (Past)

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

(Example) CAN DIAG SUPPORT MNTR

ALL MODE AWD/4WD			
	PRSENT	PAST	
TRANSMIT DIAG	OK	OK	
ECM	OK	OK	
VDC/TCS/ABS	OK	OK	
TCM	OK	OK	
STRG	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

PKIC3565E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
ALL MODE AWD/4WD	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/–	OK/0/1~39/–
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/–	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/–	
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/–	
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN/–	

Display Results (Present)

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

CAUTION:

“UNKWN” is indicated by erasing the self-diagnosis result when any malfunction was detected in past.

- –: 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

CAUTION:

- “UNKWN” is indicated in “Present” and “0” is indicated in “Past” when any malfunction is detected at present.
- “UNKWN” is indicated in “Present” and “1~39” is indicated in “Past” when any malfunction was detected in past.

(Example) CAN DIAG SUPPORT MNTR

ALL MODE AWD/4WD			
	PRSENT	PAST	
TRANSMIT DIAG	OK	OK	
ECM	UNKWN	0	
VDC/TCS/ABS	UNKWN	39	
TCM	UNKWN	0	
STRG	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

SKIB3246E

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

(Example)

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

PKIC4722E

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

Display Results (Present)

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

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

LAN

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

(Example)

CAN DIAG SUPPORT MONITOR			
CAN COMM	OK	0	<input type="button" value="Delete"/>
CAN_CIRC_1	OK	0	
CAN_CIRC_2	OK	0	
CAN_CIRC_3	OK	0	
CAN_CIRC_4	UNKWN	1	
CAN_CIRC_5	UNKWN	1	
CAN_CIRC_6	UNKWN	1	
CAN_CIRC_7	OK	0	
CAN_CIRC_8	OK	0	
CAN_CIRC_9	OK	0	

SKIB0645E

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	Make sure of normal reception from front air control.	OK/UNKWN	
	CAN_CIRC_5	Make sure of normal reception from combination meter.	OK/UNKWN	
	CAN_CIRC_6	CAN_CIRC_6 is not diagnosed.	UNKWN	
	CAN_CIRC_7	Make sure of normal reception from IPDM E/R.	OK/UNKWN	
	CAN_CIRC_8	CAN_CIRC_8 is not diagnosed.	UNKWN	
	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.

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

LAN

CAN COMMUNICATION

PFP:23710

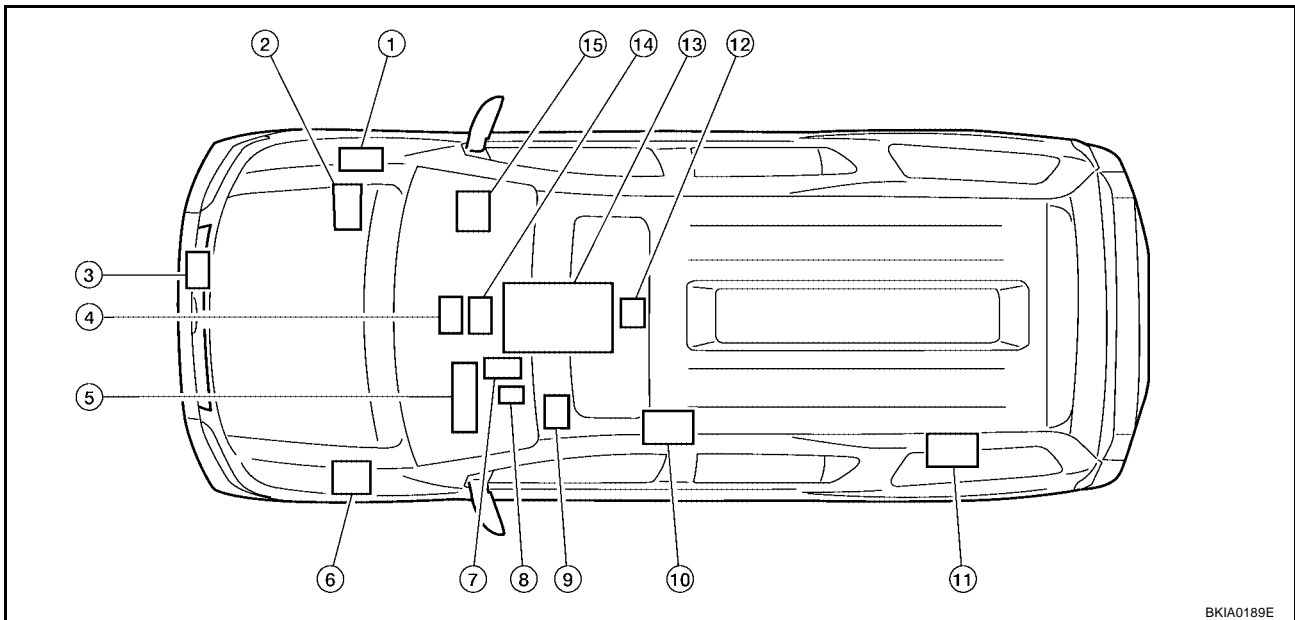
System Description

UKS000NU

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

UKS004R0



BKIA0189E

- | | | |
|---------------------------------|-----------------------------|---|
| 1. ECM E16 | 2. IPDM E/R E122 | 3. ICC sensor E42 (with ICC) |
| 4. Display control unit M95 | 5. Combination meter M24 | 6. ABS actuator and electric unit (control unit) E125 |
| 7. BCM M18 | 8. Data link connector M22 | 9. Steering angle sensor M47 |
| 10. Driver seat control unit P2 | 11. ICC unit B13 (with ICC) | 12. Air bag diagnosis sensor unit M35 |
| 13. A/T assembly F9 | 14. Front air control M50 | 15. Transfer control unit E142 (with 4-wheel drive) |

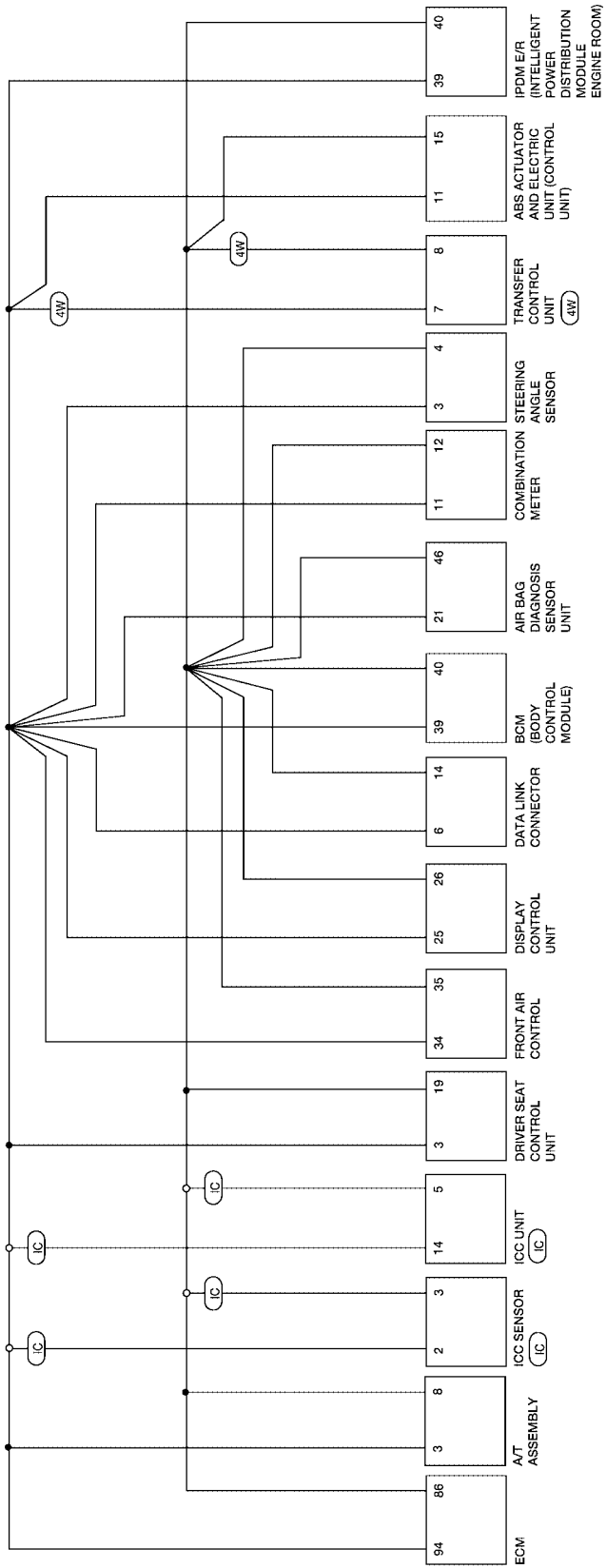
CAN COMMUNICATION

[CAN]

UKS004R1

Schematic

(4W) : WITH 4-WHEEL DRIVE
(IC) : WITH ICC



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

BKWA0646E


CAN COMMUNICATION

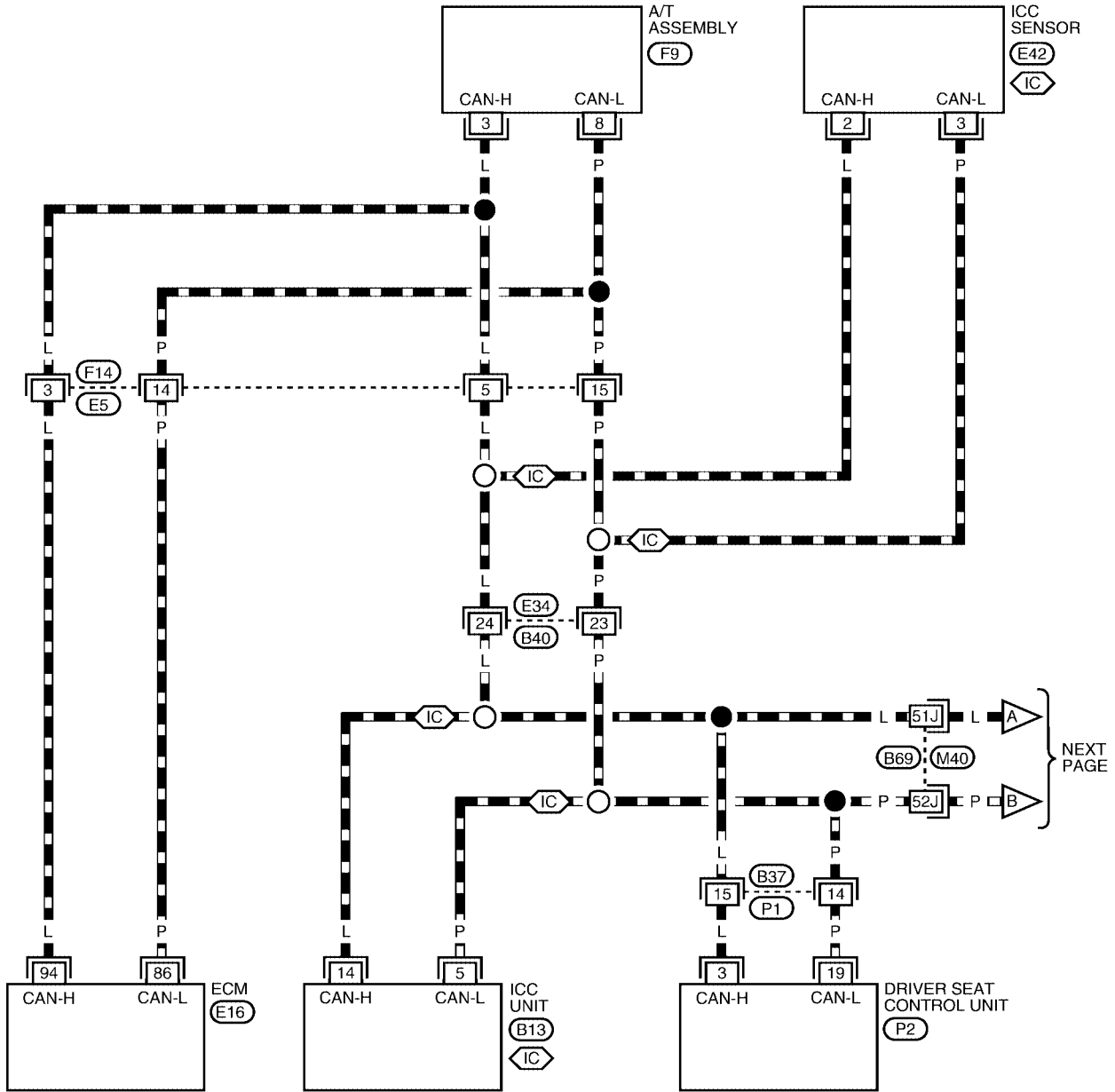
[CAN]

UKS004R2

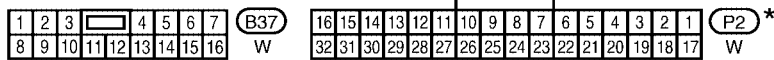
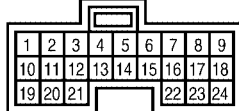
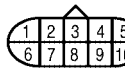
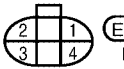
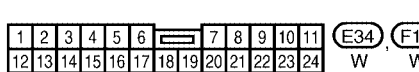
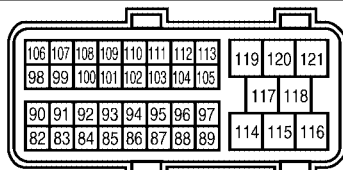
Wiring Diagram — CAN —

LAN-CAN-01

— : DATA LINE
 : WITH ICC



NEXT PAGE



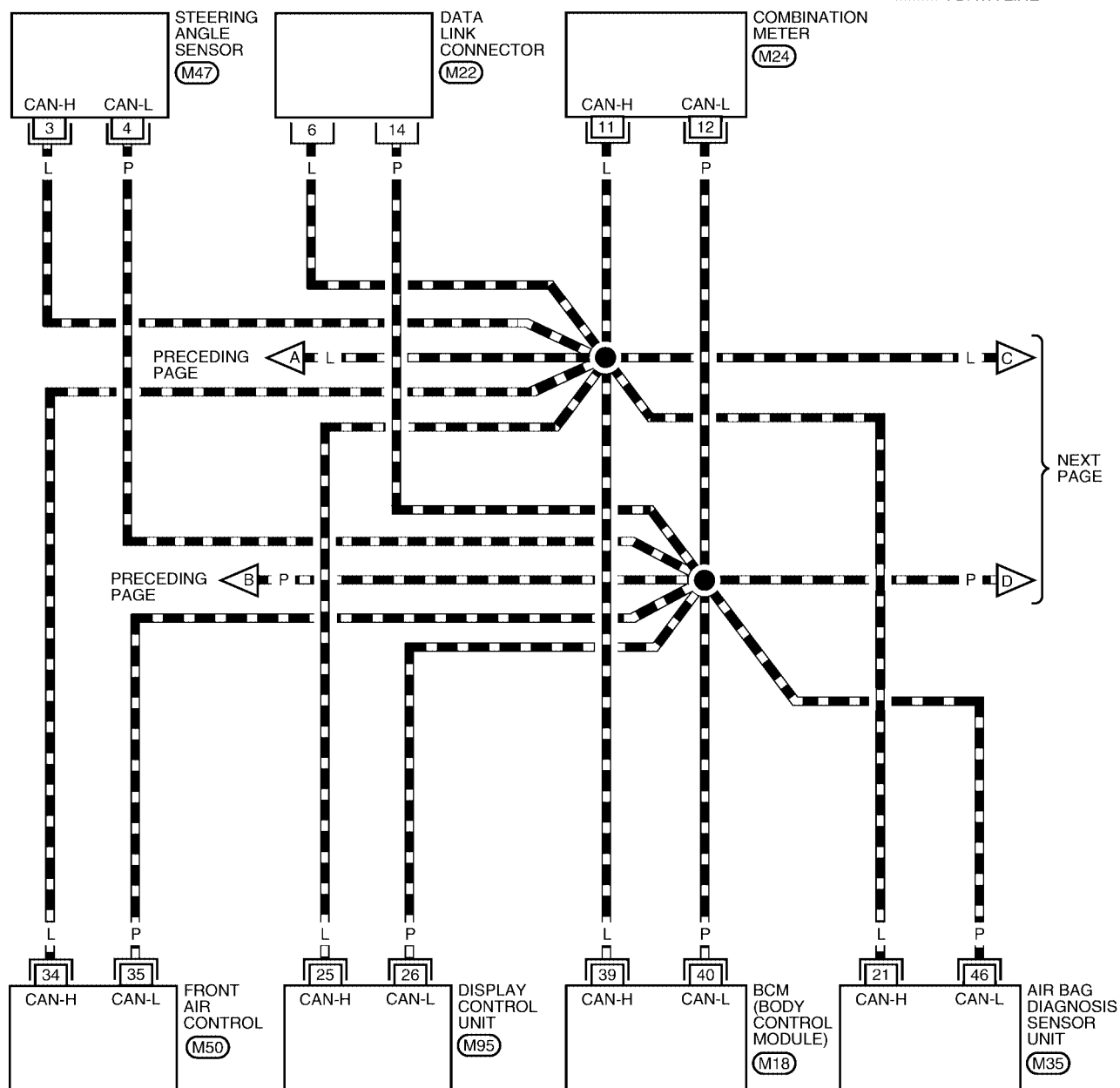
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

REFER TO THE FOLLOWING.
 (M40) - SUPER MULTIPLE JUNCTION (SMJ)

BKWA0647E

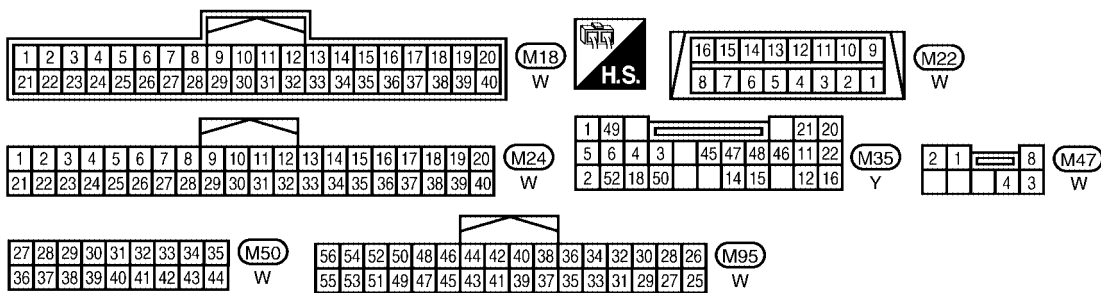
LAN-CAN-02

— : DATA LINE



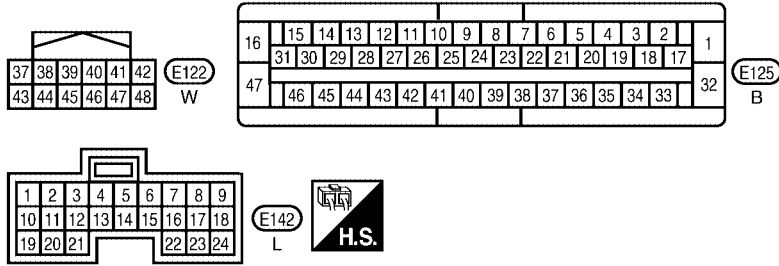
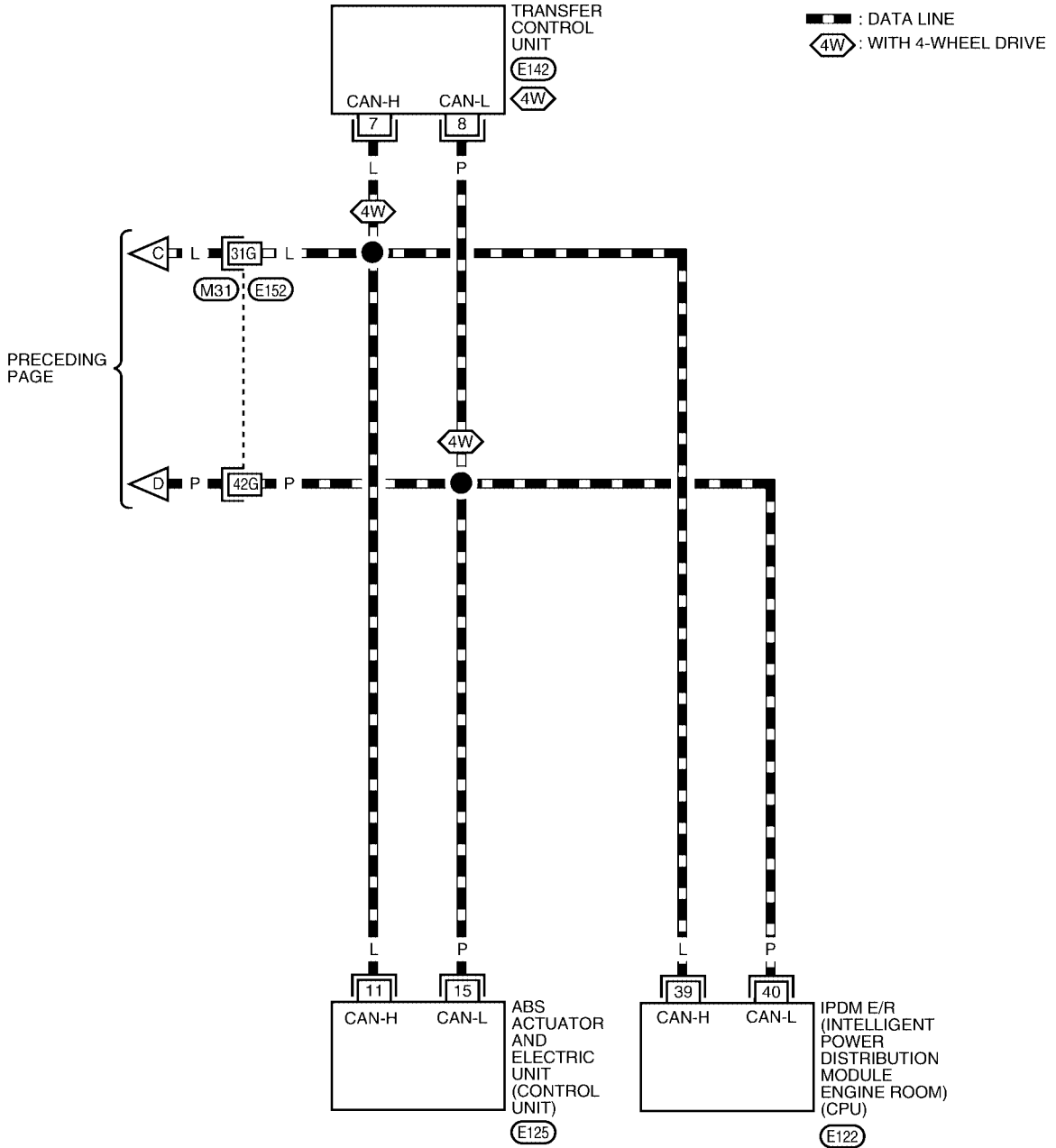
A
B
C
D
E
F
G
H
I
J
L
M

LAN



BKWA0648E

LAN-CAN-03



REFER TO THE FOLLOWING.
 (M31) - SUPER MULTIPLE JUNCTION (SMJ)

BKWA0649E

CAN Communication Unit

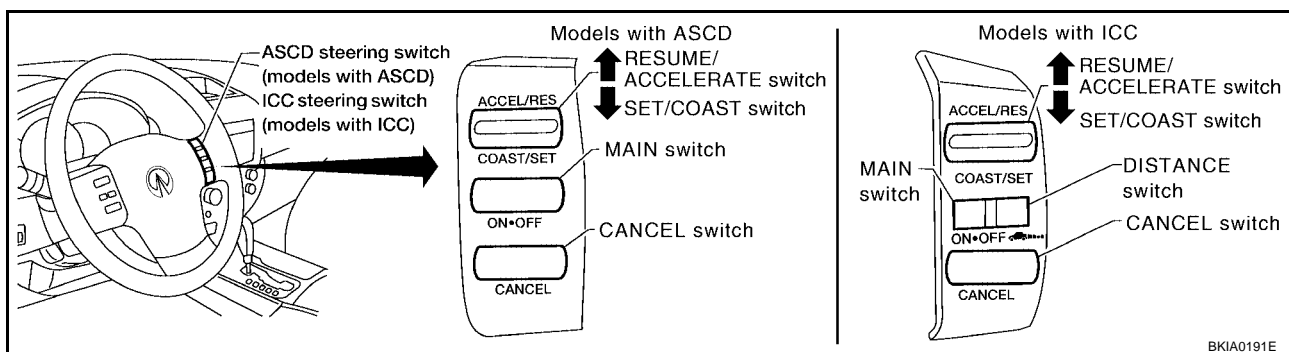
Go to CAN system, when selecting your CAN system type from the following table.

Body type	Wagon			
Axle	2WD			4WD
Engine	VK56DE			
Transmission	A/T			
Brake control	VDC			
ICC system		x		x
CAN system type	1	2	3	4
CAN system trouble diagnosis	LAN-39	LAN-57	LAN-79	LAN-98

x: Applicable

NOTE:

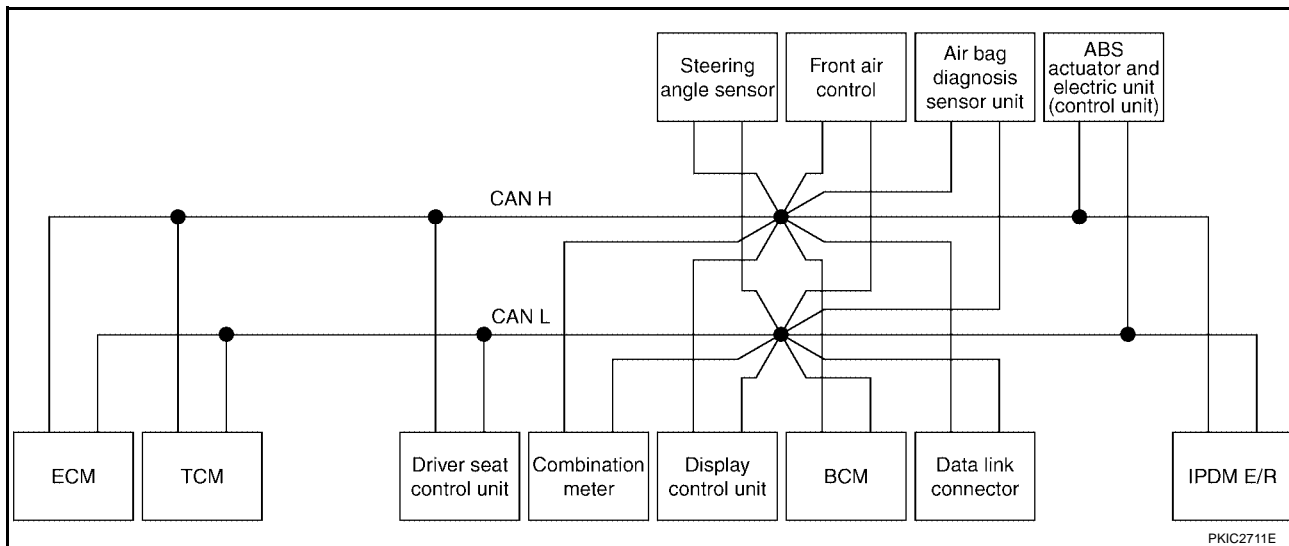
Vehicles equipped with ICC can be identified by the presence of a ICC switch.



TYPE1/TYPER2

System diagram

- Type1

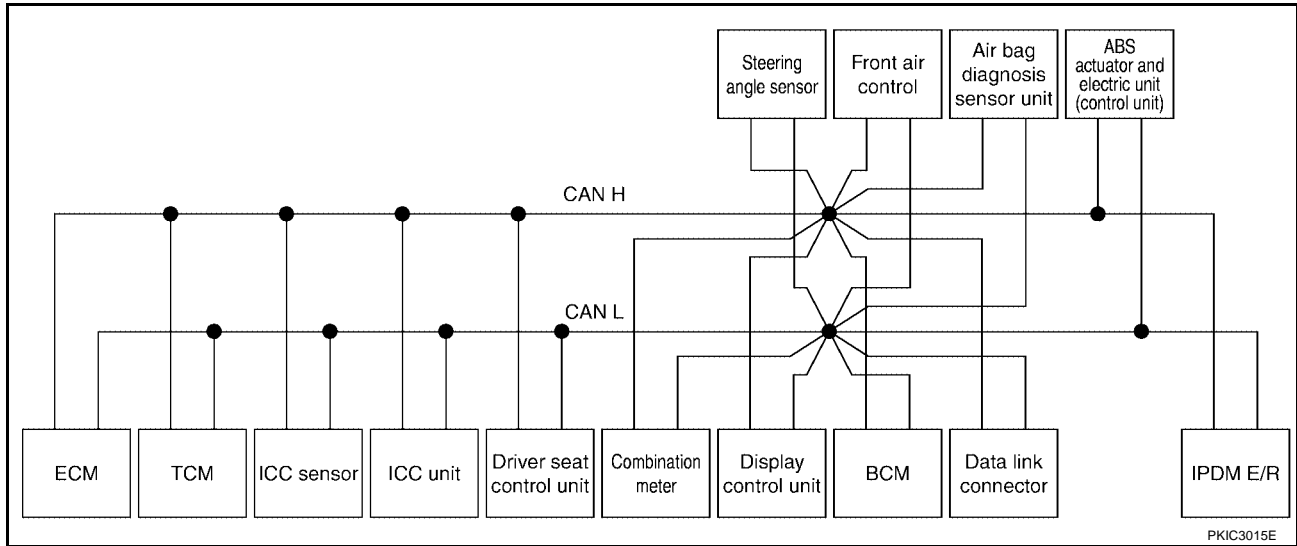


LAN

CAN COMMUNICATION

[CAN]

● Type2



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	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 OD cancel request signal	T	R										
ASCD operation signal	T	R										
ASCD SET lamp signal	T					R						
Battery voltage signal	T	R										
Closed throttle position signal	T	R		R								
Cooling fan speed request signal	T											R
Engine coolant temperature signal	T					R				R		
Engine speed signal	T	R		R		R	R			R	R	
Engine status signal	T							R				
Fuel consumption monitor signal	T					R	R					
ICC steering switch signal	T			R								
Malfunction indicator lamp signal	T					R						
Wide open throttle position signal	T	R										
A/T CHECK indicator lamp signal		T				R						

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	ABS actuator and electric unit (control unit)	IPDME/R
A/T fluid temperature sensor signal		T				R						
A/T position indicator lamp signal		T		R		R						
A/T self-diagnosis signal	R	T										
Current gear position signal		T		R							R	
Output shaft revolution signal	R	T		R								
P range signal		T		R	R						R	
Turbine revolution signal	R	T		R								
ICC sensor signal			T	R								
Buzzer output signal				T		R						
ICC OD cancel request signal	R	R		T		R		T				
ICC operation signal	R	R		T								
ICC system display signal				T		R						
System setting signal					T		R					
					R		T					
1st position switch signal		R				T						
4th position switch signal		R				T						
Distance to empty signal						T	R					
Fuel level low warning signal						T	R					
Fuel level sensor signal	R					T						
Parking brake switch signal						T		R				
Stop lamp switch signal		R				T		R				
Tow mode switch signal		R				T						
Vehicle speed signal						R				R	T	
	R	R	R		R	T	R	R				
A/C switch/indicator signal							T			R		
							R			T		
A/C switch signal	R							T		R		
Blower fan motor switch signal	R							T				
Day time running light request signal								T				R
Door switch signal					R	R	R	T				R
Front fog light request signal								T				R
Front wiper request signal				R				T				R
High beam request signal						R		T				R

A
B
C
D
E
F
G
H
I
J

LAN

L
M

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	ABS actuator and electric unit (control unit)	IPDME/R
High beam status signal	R											T
Horn chirp signal								T				R
Ignition switch signal					R			T				R
Key fob door unlock signal					R			T				
Key fob ID signal					R			T				
Key switch signal					R			T				
Low beam request signal								T				R
Low beam status signal	R											T
Position light request signal						R		T				R
Rear window defogger switch signal								T		R		R
Sleep wake up signal					R	R		T				R
Theft warning horn request signal								T				R
Tire pressure data signal							R	T				
Tire pressure signal						R		T				
Turn indicator signal						R		T				
Steering angle sensor signal									T		R	
ABS malfunction signal				R							T	
ABS warning lamp signal						R					T	
Brake pressure sensor signal				R							T	
Brake warning lamp signal						R					T	
SLIP indicator lamp signal						R					T	
TCS malfunction signal				R							T	
VDC malfunction signal				R							T	
VDC OFF indicator lamp signal				R		R					T	
VDC operation signal				R							T	
Front wiper stop position signal								R				T
Hood switch signal								R				T
Rear window defogger control signal	R						R					T

● *1: with ICC model only

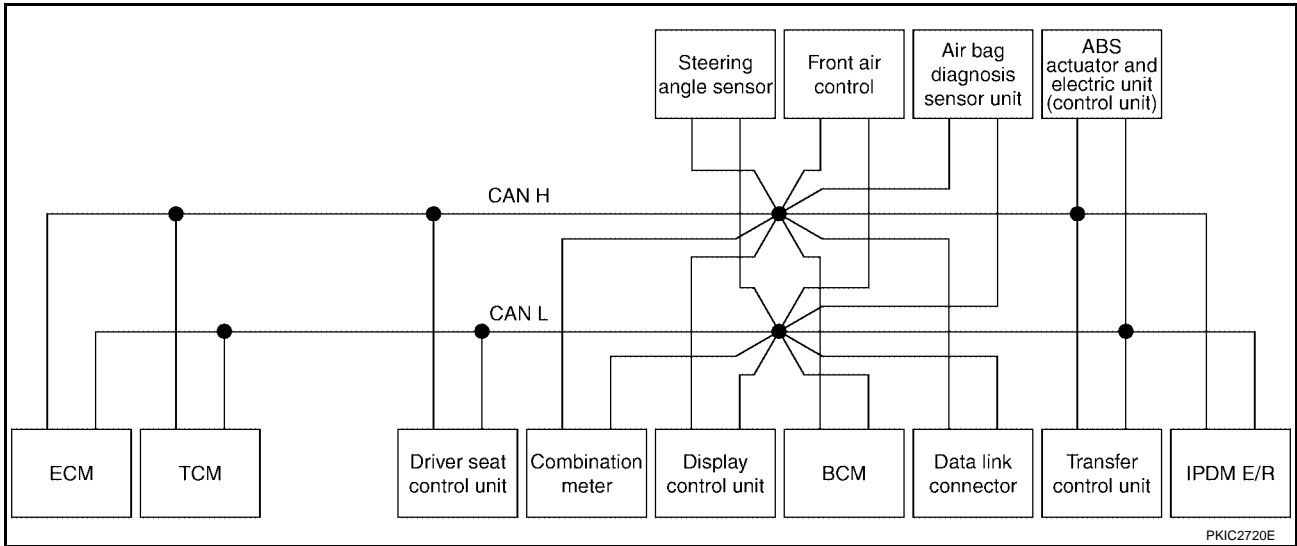
CAN COMMUNICATION

[CAN]

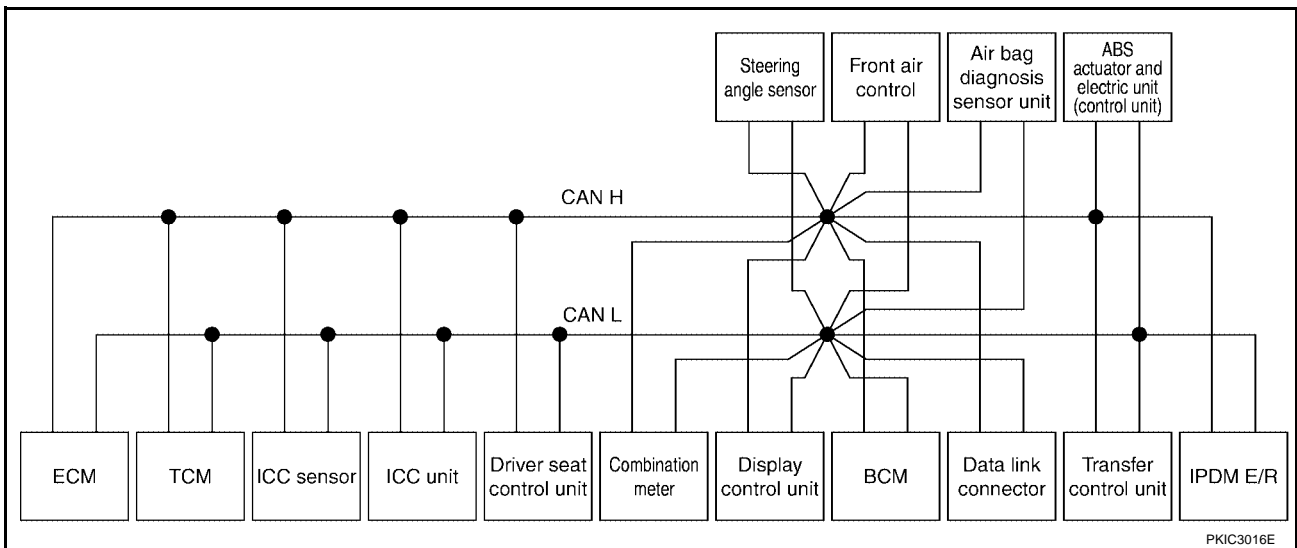
TYPE 3/TYPE4

System diagram

- Type3



- Type4



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	Transfer 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	R	

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

LAN

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ASCD CRUISE lamp signal	T					R							
ASCD OD cancel request signal	T	R											
ASCD operation signal	T	R											
ASCD SET lamp signal	T					R							
Battery voltage signal	T	R											
Closed throttle position signal	T	R		R									
Cooling fan speed request signal	T												R
Engine coolant temperature signal	T					R				R			
Engine speed signal	T	R		R		R	R			R	R	R	
Engine status signal	T							R					
Fuel consumption monitor signal	T					R							
						T	R						
ICC steering switch signal	T			R									
Malfunction indicator lamp signal	T					R							
Wide open throttle position signal	T	R											
A/T CHECK indicator lamp signal						R							
A/T fluid temperature sensor signal						R							
A/T position indicator lamp signal				R		R					R		
A/T self-diagnosis signal	R	T											
Current gear position signal				R								R	
Output shaft revolution signal	R	T		R							R		
P range signal				R	R							R	
Turbine revolution signal	R	T		R									
ICC sensor signal			T	R									
Buzzer output signal				T		R							
						R		T					
ICC OD cancel request signal	R	R		T									
ICC operation signal	R	R		T									
ICC system display signal				T		R							
System setting signal					T		R						
					R		T						
1st position switch signal		R				T							
4th position switch signal		R				T							
Distance to empty signal						T	R						

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Fuel level low warning signal						T	R						
Fuel level sensor signal	R					T							
Parking brake switch signal						T		R					
Stop lamp switch signal		R				T		R					
Tow mode switch signal		R				T							
Vehicle speed signal						R				R	R	T	
	R	R	R		R	T	R	R					
A/C switch/indicator signal							T			R			
							R			T			
A/C switch signal	R							T		R			
Blower fan motor switch signal	R							T					
Day time running light request signal								T					R
Door switch signal					R	R	R	T					R
Front fog light request signal								T					R
Front wiper request signal				R				T					R
High beam request signal						R		T					R
High beam status signal	R												T
Horn chirp signal								T					R
Ignition switch signal					R			T					R
Key fob door unlock signal					R			T					
Key fob ID signal					R			T					
Key switch signal					R			T					
Low beam request signal								T					R
Low beam status signal	R												T
Position light request signal						R		T					R
Rear window defogger switch signal								T		R			R
Sleep wake up signal					R	R		T					R
Theft warning horn request signal								T					R
Tire pressure data signal							R	T					
Tire pressure signal						R		T					
Turn indicator signal						R		T					
Steering angle sensor signal									T			R	
ABS malfunction signal				R								T	
ABS warning lamp signal						R						T	

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

LAN

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Brake pressure sensor signal				R								T	
Brake warning lamp signal						R						T	
SLIP indicator lamp signal						R						T	
TCS malfunction signal				R								T	
VDC malfunction signal				R								T	
VDC OFF indicator lamp signal				R		R						T	
VDC operation signal				R								T	
Front wiper stop position signal								R					T
Hood switch signal								R					T
Rear window defogger control signal	R						R						T

- *1: with ICC model only

CAN SYSTEM (TYPE 1)

[CAN]

CAN SYSTEM (TYPE 1)

PF:23710

Component Parts and Harness Connector Location

UKS004SV

A

Refer to [LAN-26, "Component Parts and Harness Connector Location"](#) .

Schematic

UKS004SW

B

Refer to [LAN-27, "Schematic"](#) .

Wiring Diagram — CAN —

UKS004SX

C

Refer to [LAN-28, "Wiring Diagram — CAN —"](#) .

D

E

F

G

H

I

J

LAN

L

M

CAN SYSTEM (TYPE 1)

[CAN]

UKS004SY

Check Sheet

NOTE:

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

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

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	HVAC	CAN CIRC 9	-

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR check sheet

PKIC2943E

CAN SYSTEM (TYPE 1)

[CAN]

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

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of A/T SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS
---	--	--	--

Attach copy of HVAC SELF-DIAG RESULTS	Attach copy of ABS SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
---	--	---	--

Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of A/T CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR
--	---	---	---

Attach copy of HVAC CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	
--	---	--	--

LAN

PKIB6658E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

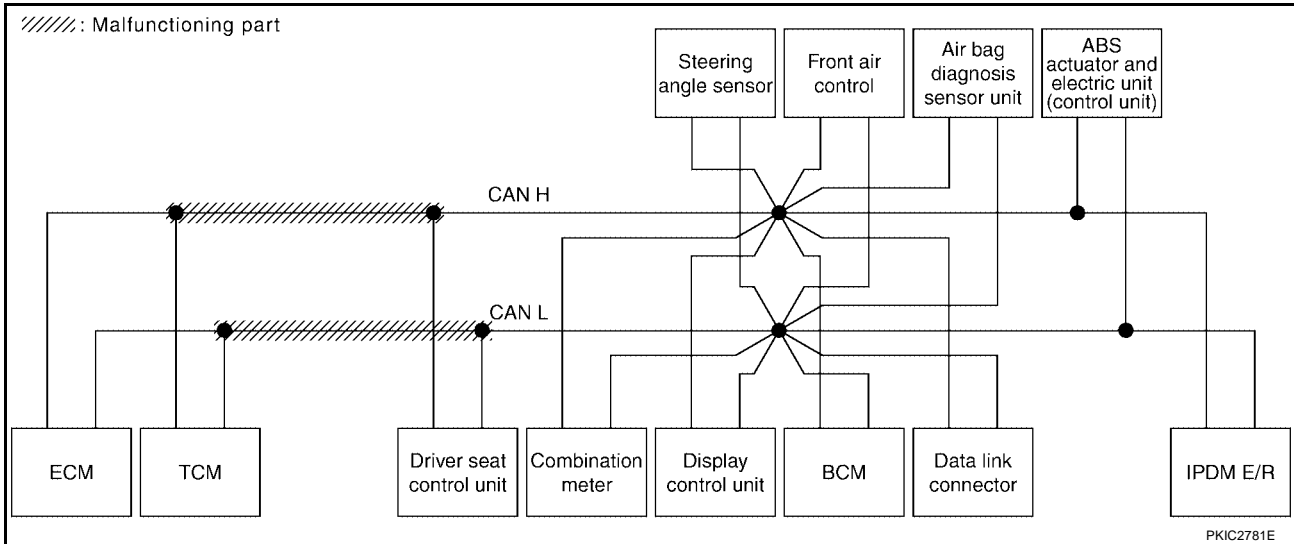
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and driver seat control unit. Refer to [LAN-124, "Inspection Between TCM and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS				
ENGINE	-	-	UNKWN	-	UNKWN	✓	-	✓	-	-	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)	
A/T	-	NG	UNKWN	UNKWN	-	✓	-	-	-	-	✓	-	CAN COMM CIRCUIT (U000)	-	
AUTO DRIVE POS.	No indication	-	-	-	✓	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U000)	-	
Display control unit	-	NG	UNKWN	✓	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
BCM	No indication	NG	UNKWN	✓	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	✓	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
ABS	-	NG	UNKWN	✓	✓	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U000)	-	
IPDM E/R	No indication	-	UNKWN	✓	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U000)	-	

PKIC3274E

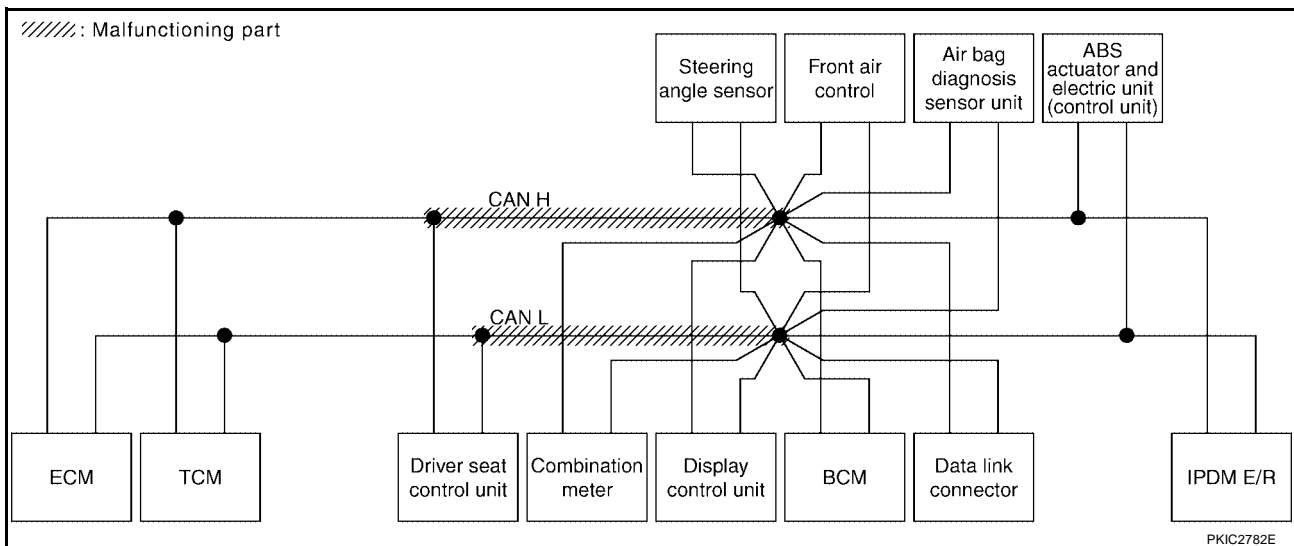


Case 2

Check harness between driver seat control unit and data link connector. Refer to [LAN-126, "Inspection Between Driver Seat Control Unit and Data Link Connector Circuit"](#) .

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

PKIC3275E



CAN SYSTEM (TYPE 1)

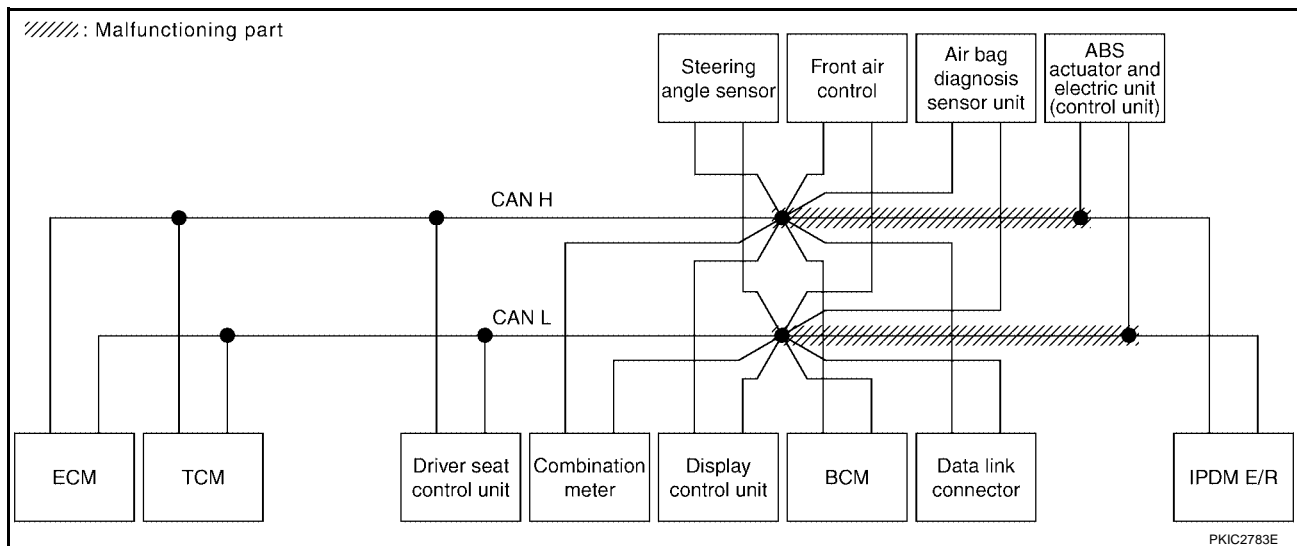
[CAN]

Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-127, "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											IPDM E/R
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	

PKIC3276E



PKIC2783E

CAN SYSTEM (TYPE 1)

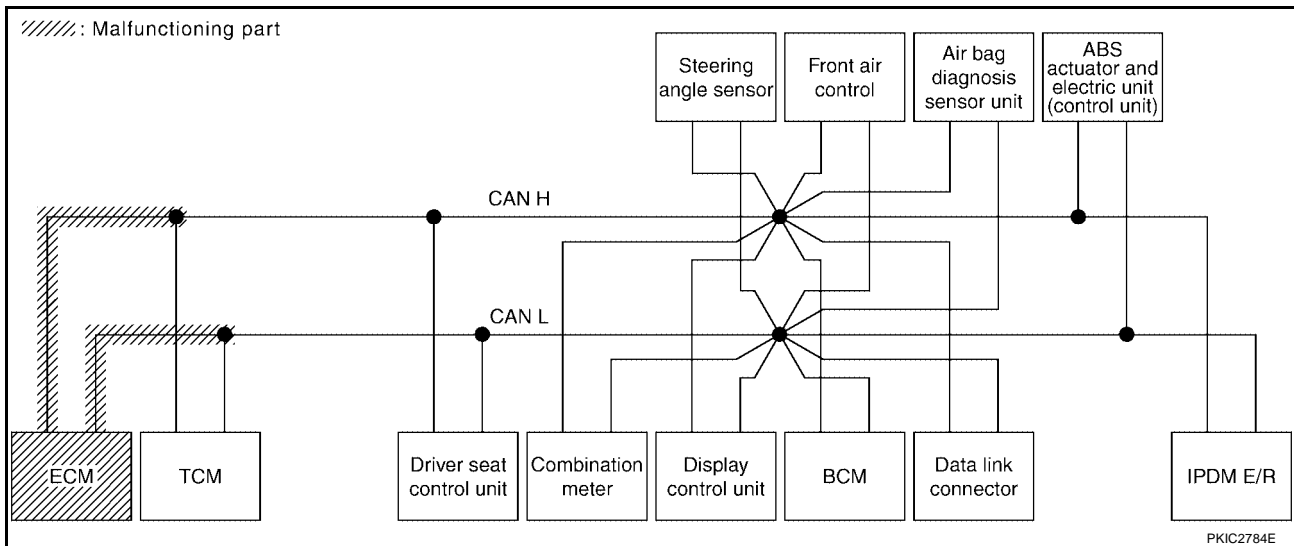
[CAN]

Case 4

Check ECM circuit. Refer to [LAN-128, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U000)	CAN COMM CIRCUIT (U001)	
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U000)	-	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U000)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U000)	-	

PKIC3277E



PKIC2784E

CAN SYSTEM (TYPE 1)

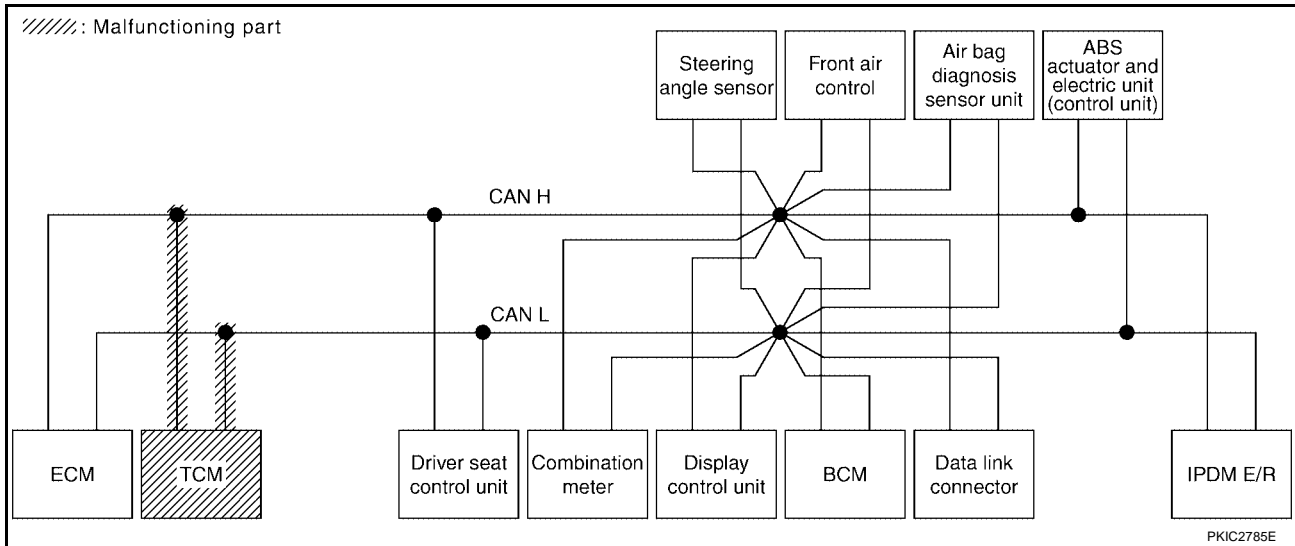
[CAN]

Case 5

Check TCM circuit. Refer to [LAN-129, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U600)	CAN COMM CIRCUIT (U601)	
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U600)	-	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U600)	-	
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U600)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	

PKIC3278E



CAN SYSTEM (TYPE 1)

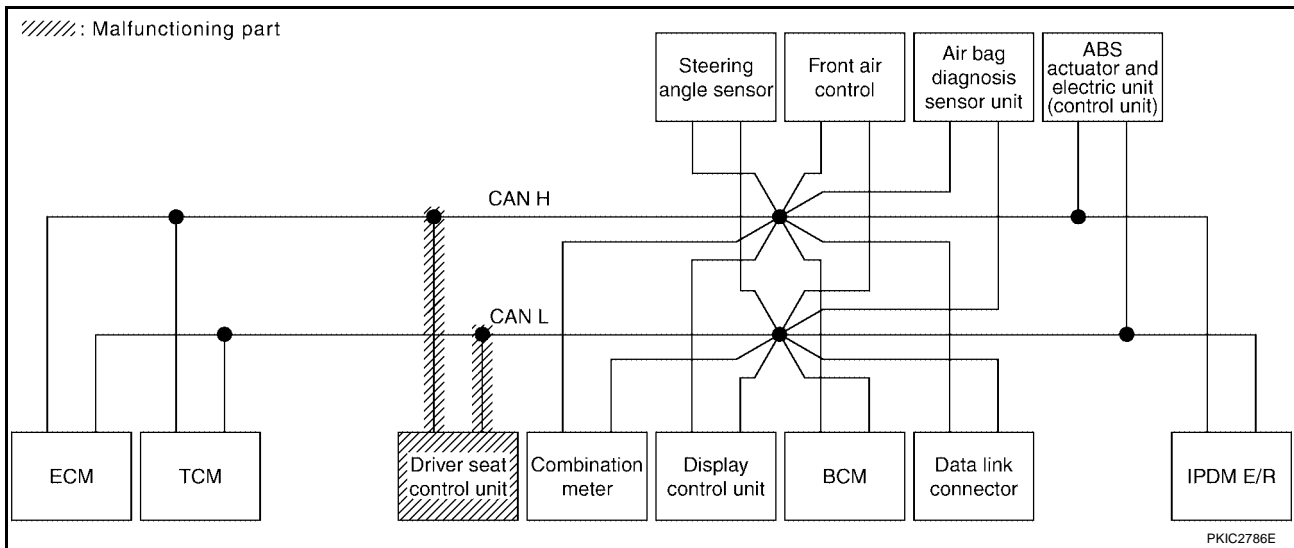
[CAN]

Case 6

Check driver seat control unit circuit. Refer to [LAN-130, "Driver Seat Control Unit Circuit Inspection"](#) .

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

PKIC3279E



CAN SYSTEM (TYPE 1)

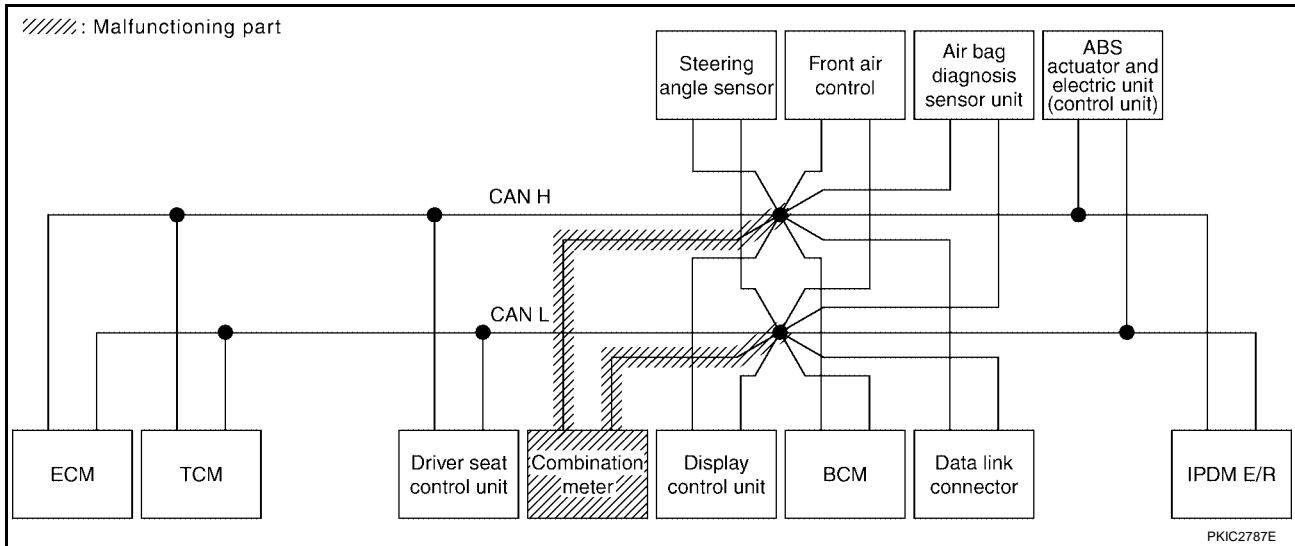
[CAN]

Case 7

Check combination meter circuit. Refer to [LAN-131, "Combination Meter Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)	
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U000)	-	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U000)	-	
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	

PKIC3280E



PKIC2787E

CAN SYSTEM (TYPE 1)

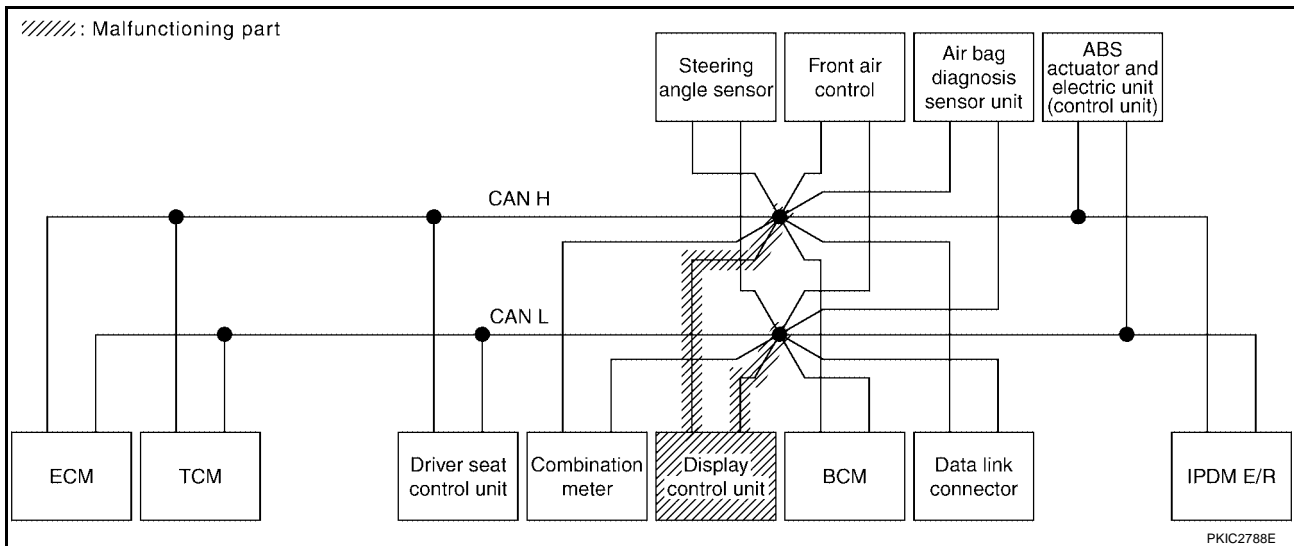
[CAN]

Case 8

Check display control unit circuit. Refer to [LAN-131, "Display Control Unit Circuit Inspection"](#).

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

PKIC3281E



CAN SYSTEM (TYPE 1)

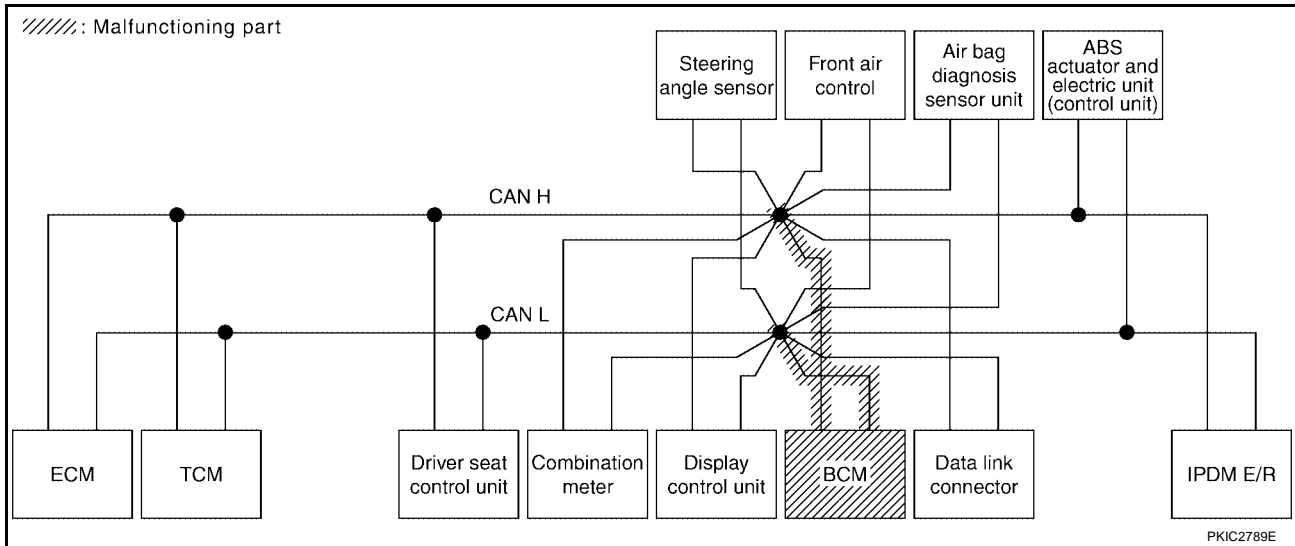
[CAN]

Case 9

Check BCM circuit. Refer to [LAN-132](#), "BCM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											IPDM E/R
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)	
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	

PKIC3282E



CAN SYSTEM (TYPE 1)

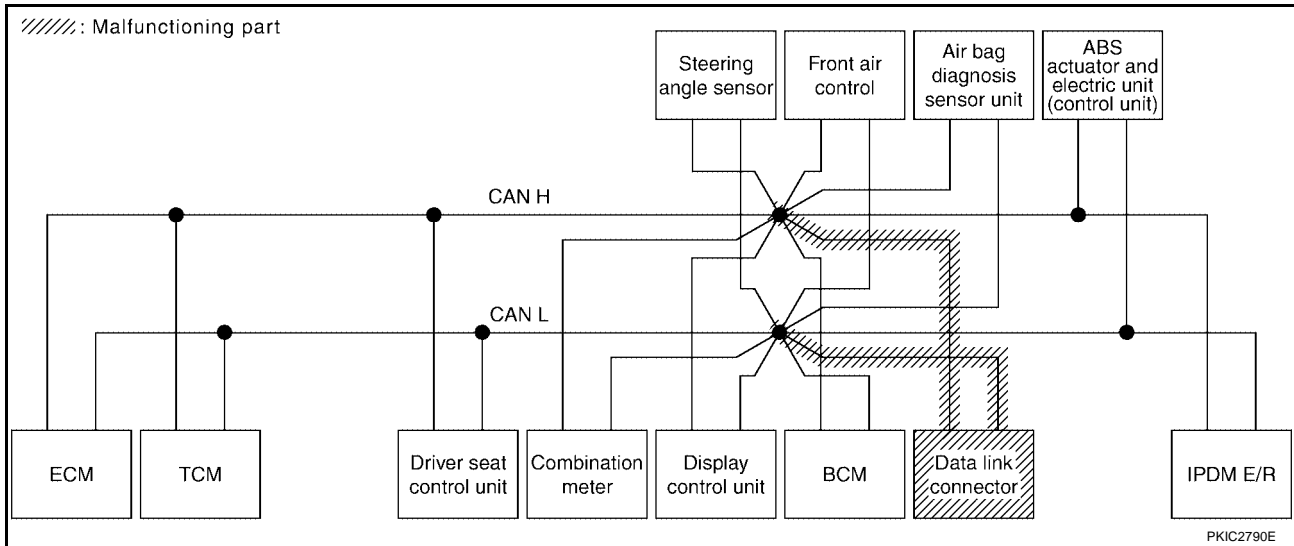
[CAN]

Case 10

Check data link connector circuit. Refer to [LAN-132. "Data Link Connector Circuit Inspection"](#) .

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

PKIC3283E



PKIC2790E

CAN SYSTEM (TYPE 1)

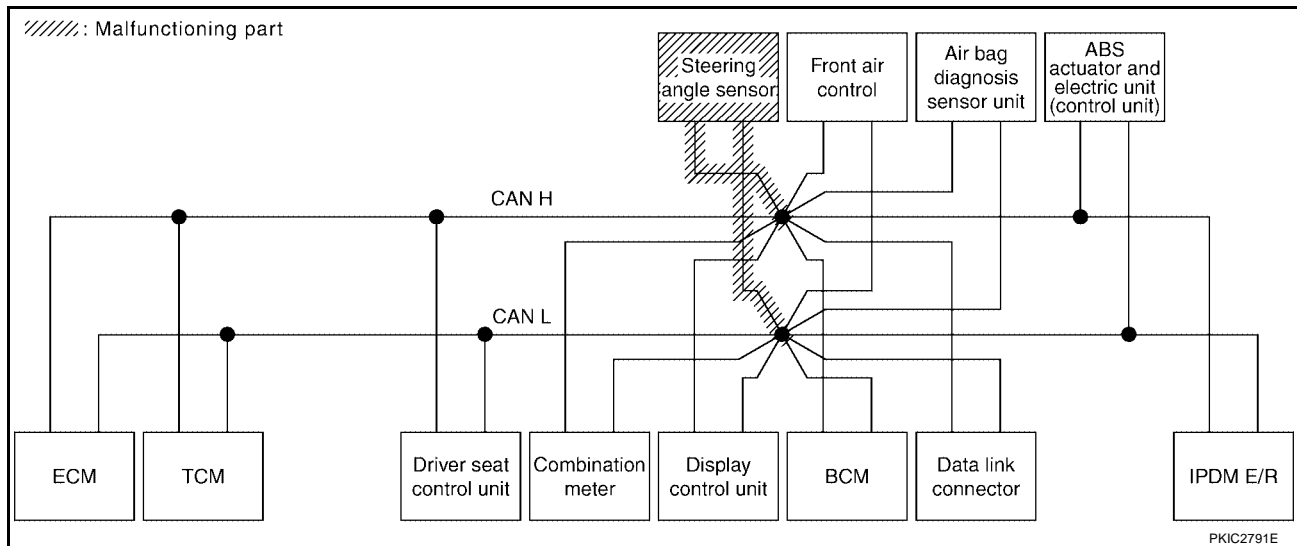
[CAN]

Case 11

Check steering angle sensor circuit. Refer to [LAN-133, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC3284E



CAN SYSTEM (TYPE 1)

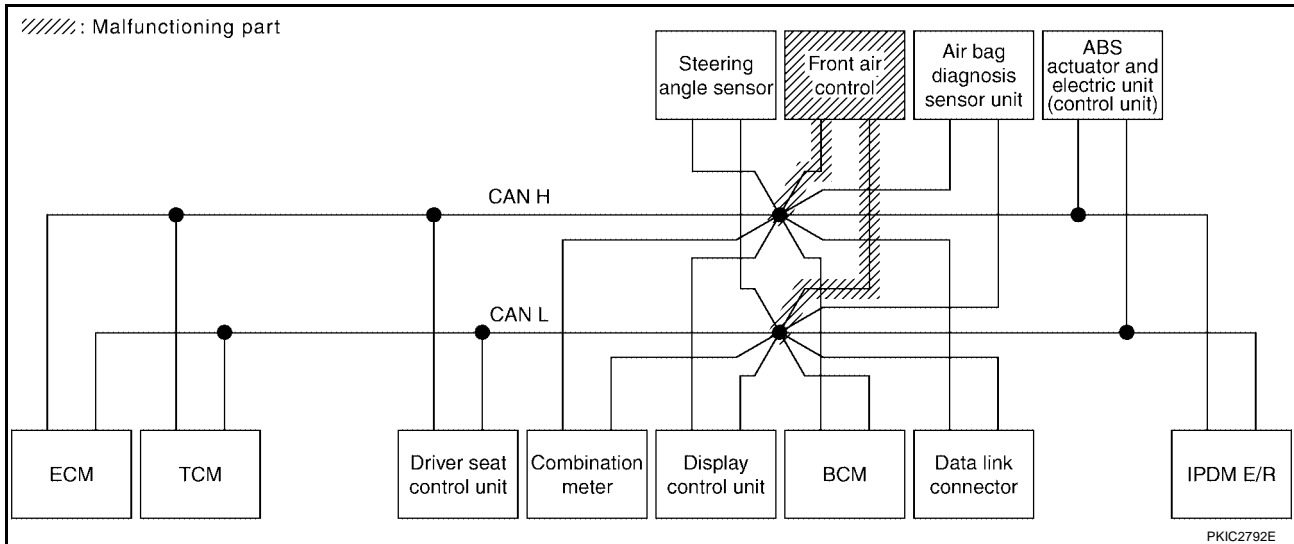
[CAN]

Case 12

Check front air control circuit. Refer to [LAN-133, "Front Air Control Circuit Inspection"](#) .

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

PKIC3285E



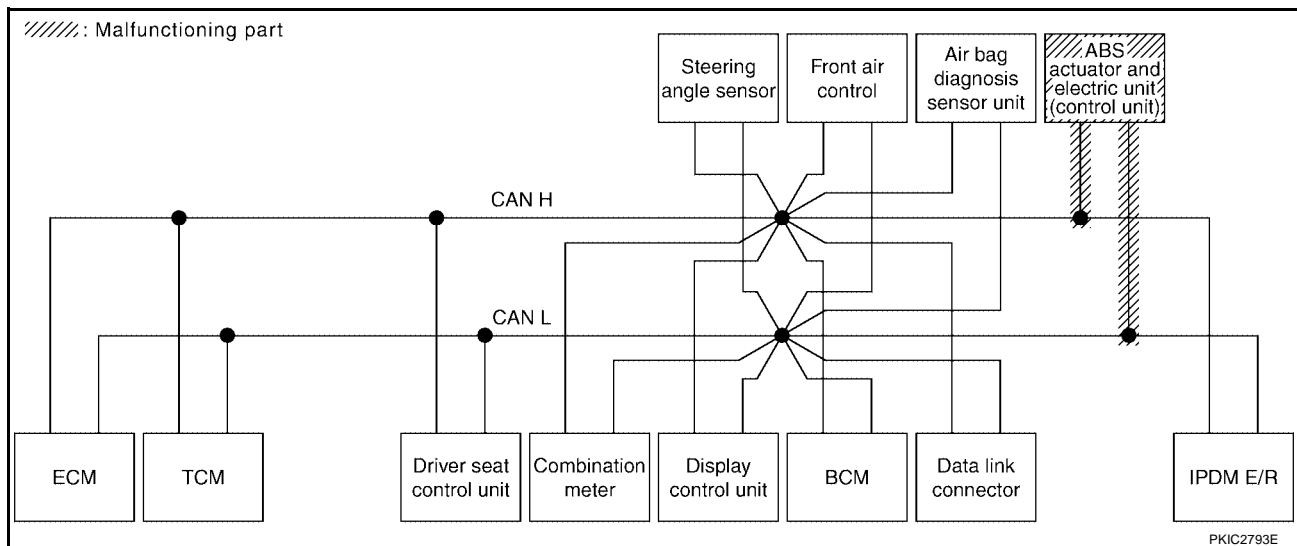
PKIC2792E

Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-134, "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											IPDM E/R
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
ABS	-	✓	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	

PKIC3286E



CAN SYSTEM (TYPE 1)

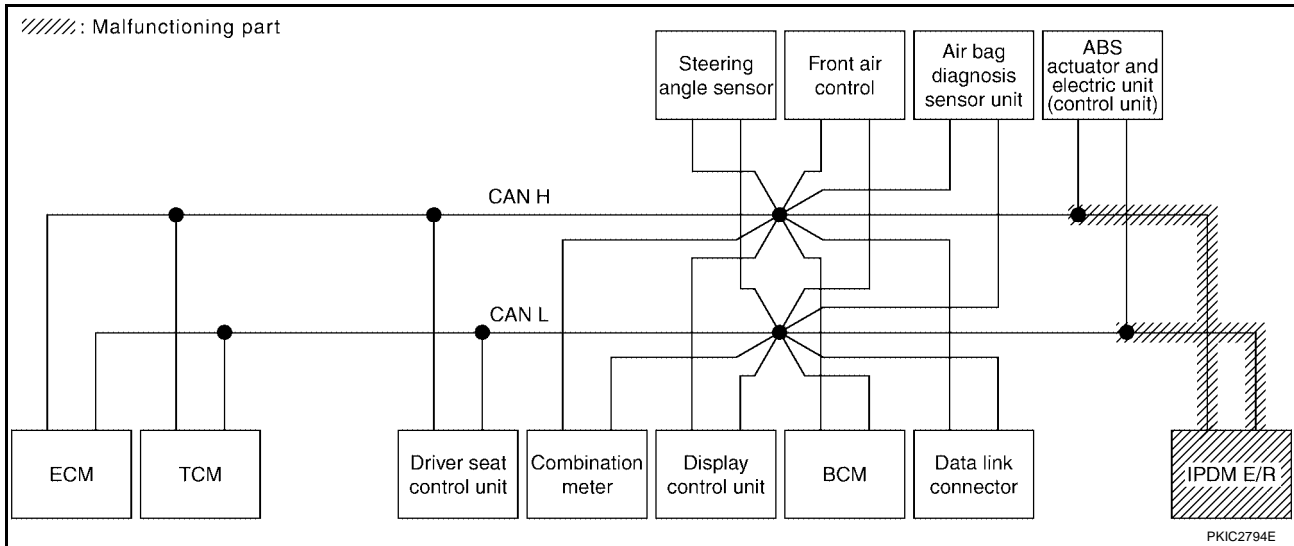
[CAN]

Case 14

Check IPDM E/R circuit. Refer to [LAN-135, "IPDM E/R Circuit Inspection"](#).

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

PKIC3287E



Case 15

Check CAN communication circuit. Refer to [LAN-135, "CAN Communication Circuit Inspection"](#).

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

PKIC3288E

CAN SYSTEM (TYPE 1)

[CAN]

Case 16

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-137, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC3289E

Case 17

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-137, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC3290E

CAN SYSTEM (TYPE 2)

[CAN]

CAN SYSTEM (TYPE 2)

PF2:23710

Component Parts and Harness Connector Location

UKS004SZ

Refer to [LAN-26, "Component Parts and Harness Connector Location"](#) .

Schematic

UKS004T0

Refer to [LAN-27, "Schematic"](#) .

Wiring Diagram — CAN —

UKS004T1

Refer to [LAN-28, "Wiring Diagram — CAN —"](#) .

A

B

C

D

E

F

G

H

I

J

LAN

L

M

CAN SYSTEM (TYPE 2)

[CAN]

UKS004T2

Check Sheet

NOTE:

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

Check sheet table																
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
ECM	TCM			ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R				
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

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	HVAC	CAN CIRC 9	-

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR check sheet

PKIC3517E

CAN SYSTEM (TYPE 2)

[CAN]

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

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of A/T SELF-DIAG RESULTS	Attach copy of ICC SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS
---	--	--	--

Attach copy of BCM SELF-DIAG RESULTS	Attach copy of HVAC SELF-DIAG RESULTS	Attach copy of ABS SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS
--	---	--	---

Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of A/T CAN DIAG SUPPORT MNTR	Attach copy of ICC CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR
--	---	---	---

Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of HVAC CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR
---	--	---	--

LAN

SKIB3452E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

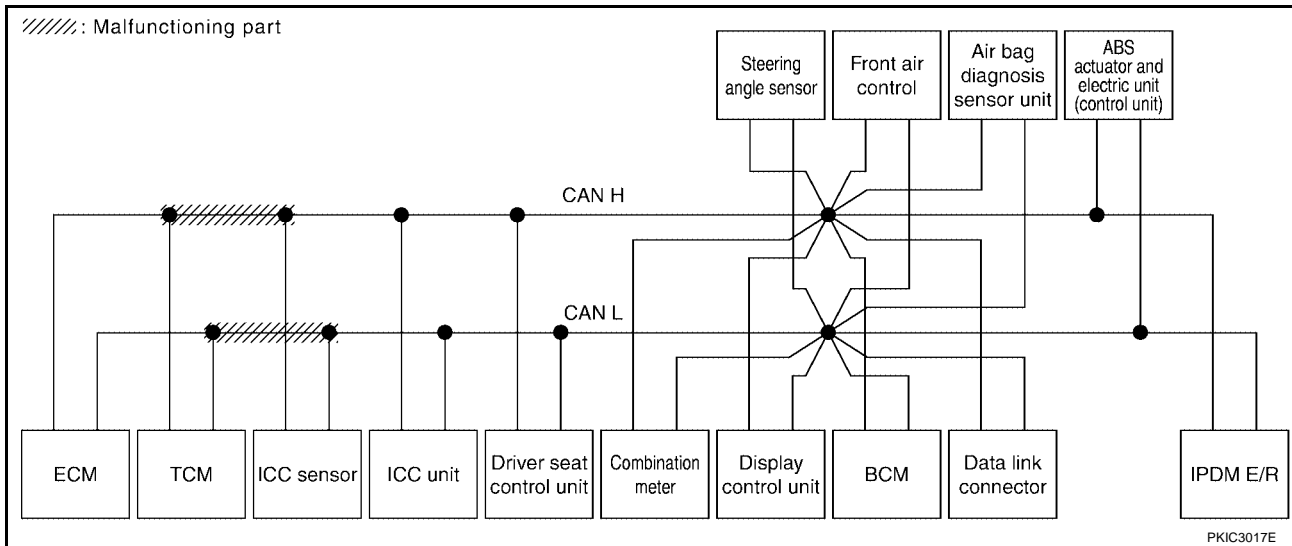
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and ICC sensor. Refer to [LAN-123. "Inspection Between TCM and ICC Sensor Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	-	✓	✓	-	✓	-	-	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
A/T	-	NG	UNKWN	UNKWN	-	-	✓	✓	-	-	-	-	✓	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	✓	✓	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	✓	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	✓	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	✓	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	✓	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
ABS	-	NG	UNKWN	✓	✓	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	✓	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3519E



CAN SYSTEM (TYPE 2)

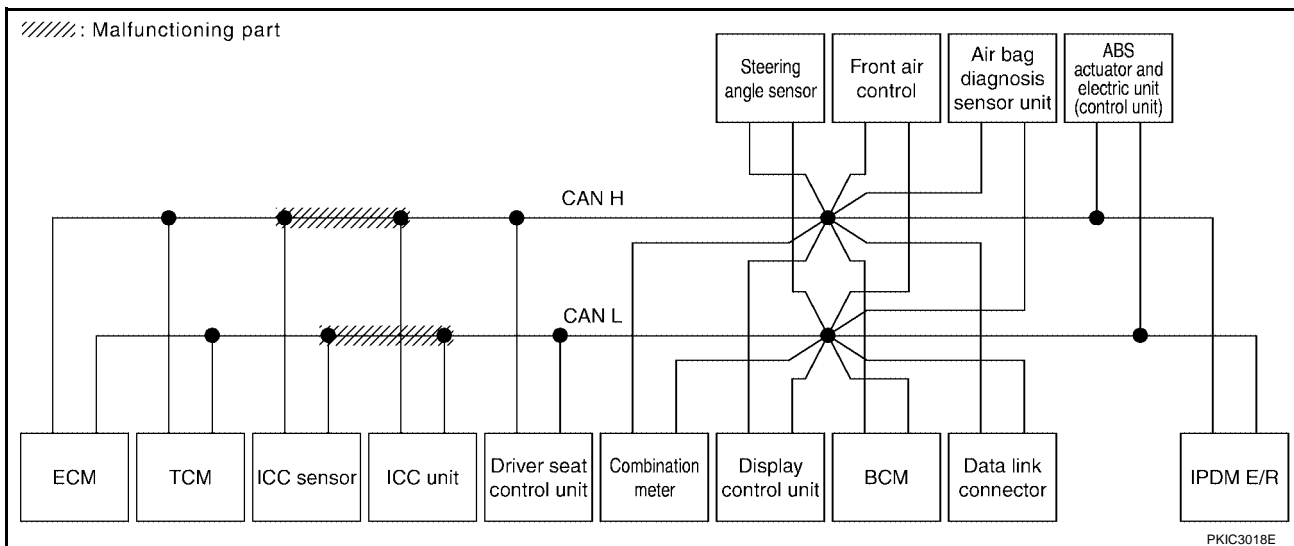
[CAN]

Case 2

Check harness between ICC sensor and ICC unit. Refer to [LAN-125, "Inspection Between ICC Sensor and ICC Unit Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	ICC SENSOR	ICC#4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3520E



PKIC3018E

CAN SYSTEM (TYPE 2)

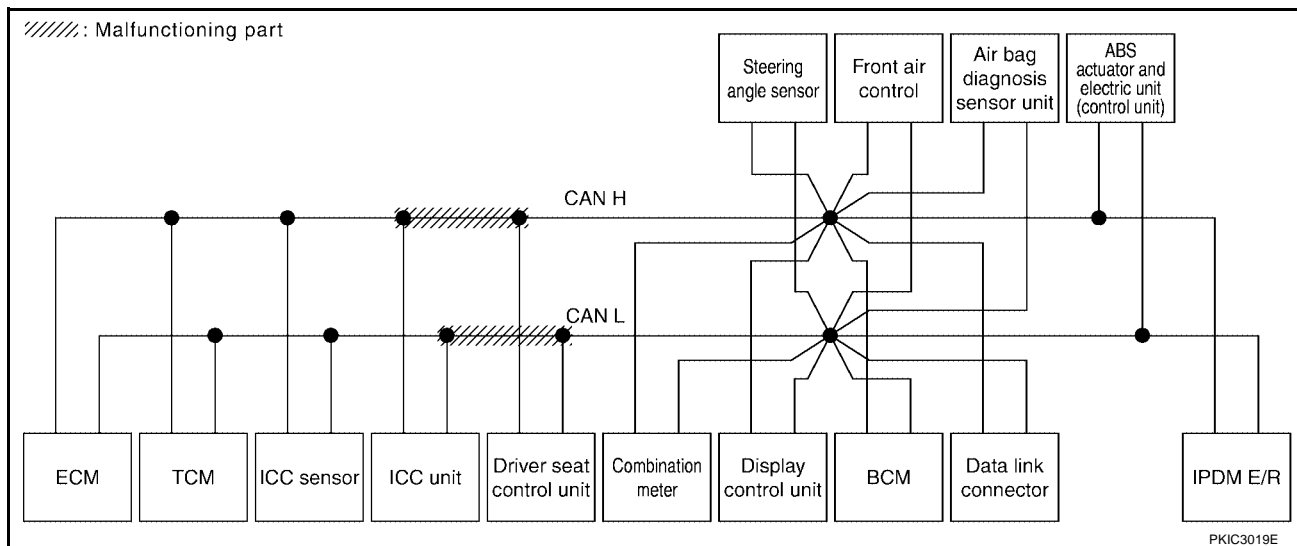
[CAN]

Case 3

Check harness between ICC unit and driver seat control unit. Refer to [LAN-126, "Inspection Between ICC Unit and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			IPDM E/R
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	✓	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	✓	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U000)	-
AUTO DRIVE POS.	No indication	-	-	-	✓	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U000)	-
Display control unit	-	NG	UNKWN	✓	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	✓	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	✓	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	✓	✓	-	✓	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U000)	-
IPDM E/R	No indication	-	UNKWN	✓	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U000)	-

PKIC3521E



PKIC3019E

CAN SYSTEM (TYPE 2)

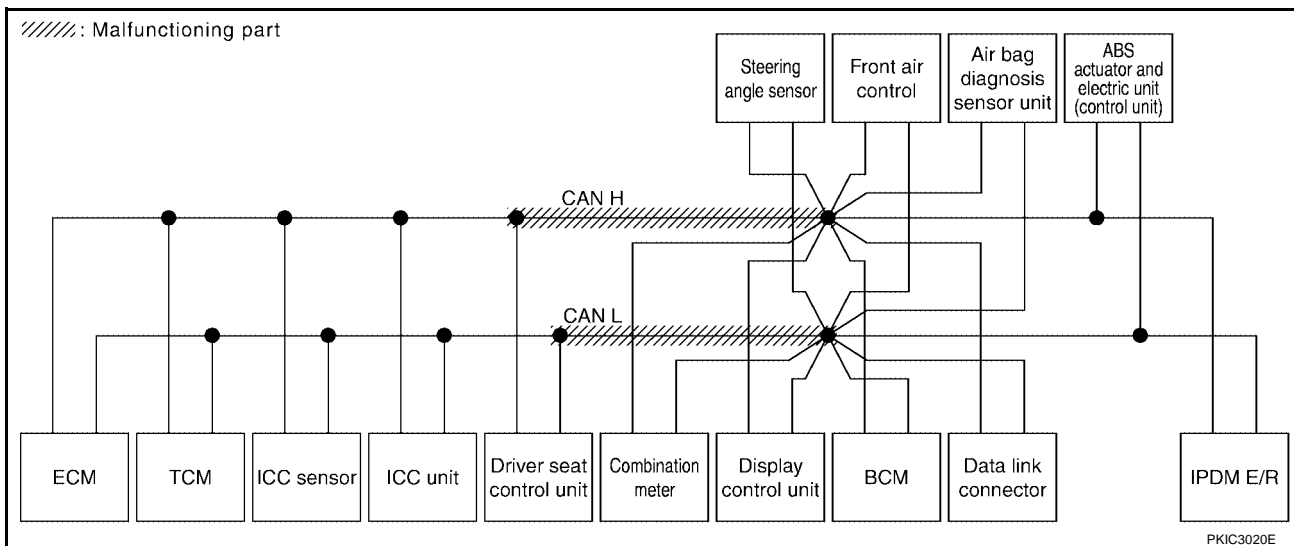
[CAN]

Case 4

Check harness between driver seat control unit and data link connector. Refer to [LAN-126, "Inspection Between Driver Seat Control Unit and Data Link Connector Circuit"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	ICC SENSOR	ICC#4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	✓	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	✓	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3522E



PKIC3020E

CAN SYSTEM (TYPE 2)

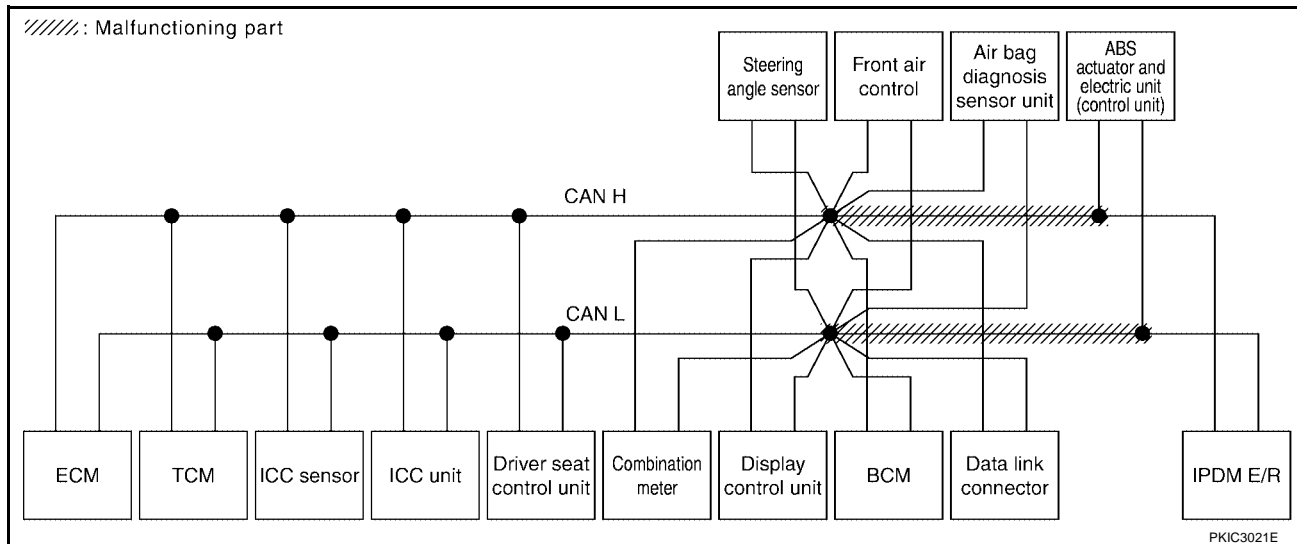
[CAN]

Case 5

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-127, "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												IPDM E/R
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3523E



PKIC3021E

CAN SYSTEM (TYPE 2)

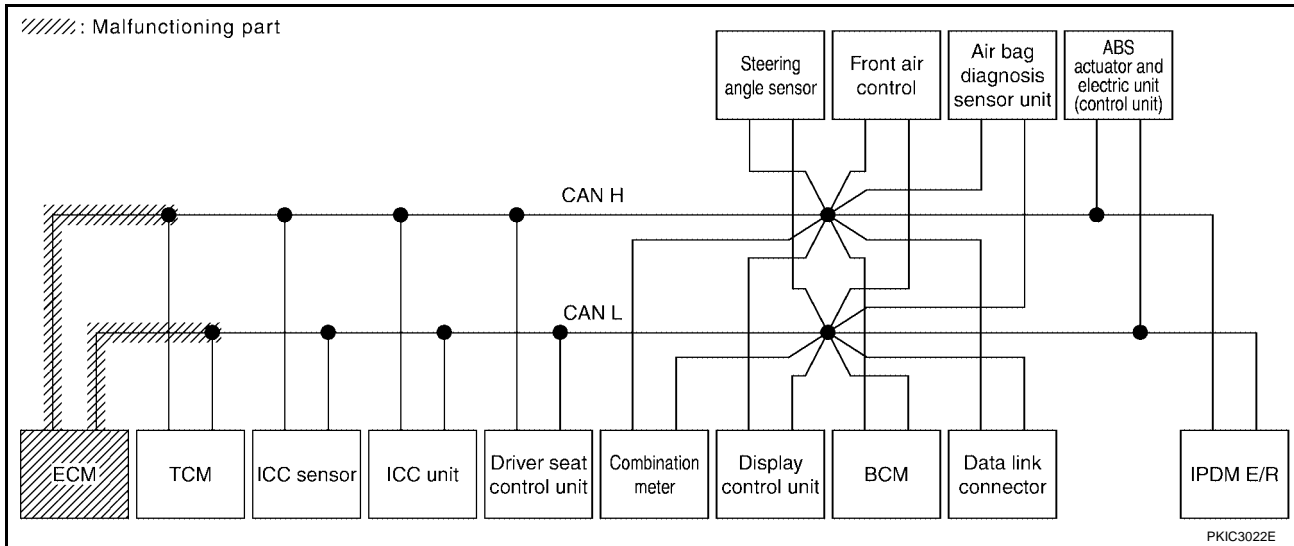
[CAN]

Case 6

Check ECM circuit. Refer to [LAN-128, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3524E



CAN SYSTEM (TYPE 2)

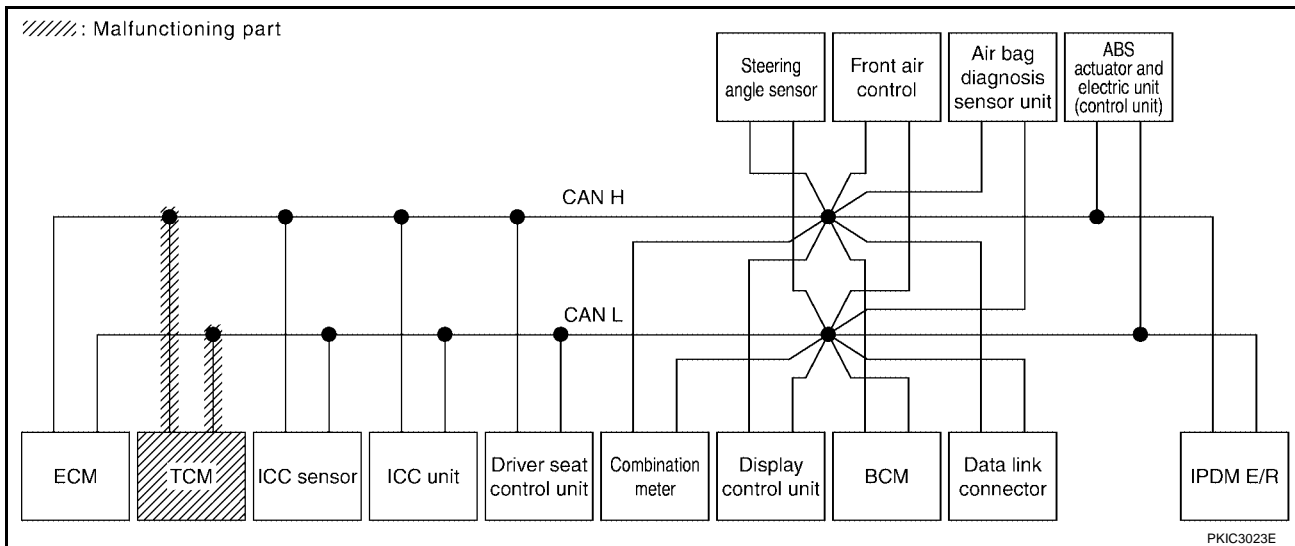
[CAN]

Case 7

Check TCM circuit. Refer to [LAN-129, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R				
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS					
ENGINE	-	-	UNKWN	-	✓	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	✓	CAN COMM CIRCUIT (U1001)	✓
A/T	-	NG	UNKWN	✓	-	-	UNKWN	✓	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	✓	-	-
ICC	-	NG	UNKWN	UNKWN	✓	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	✓	-
AUTO DRIVE POS.	No indication	-	-	-	✓	-	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	✓	-	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	✓	-	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	-
ABS	-	NG	UNKWN	UNKWN	✓	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	✓	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	✓	-	-

PKIC3525E



PKIC3023E

CAN SYSTEM (TYPE 2)

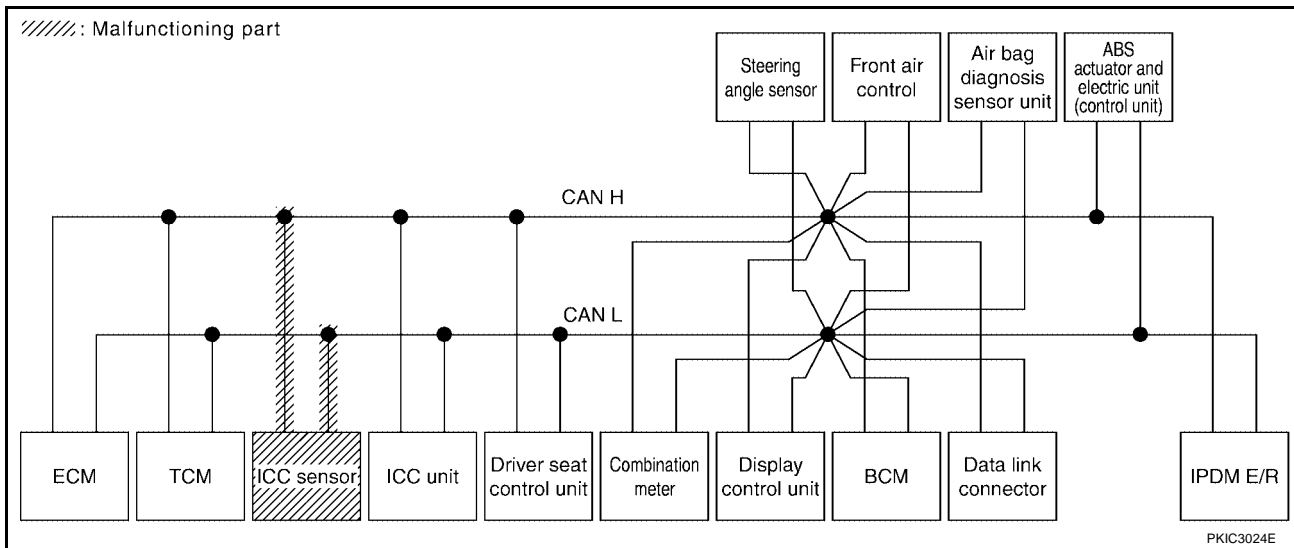
[CAN]

Case 8

Check ICC sensor circuit. Refer to [LAN-129, "ICC Sensor Circuit Inspection"](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
			ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS				
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3526E



CAN SYSTEM (TYPE 2)

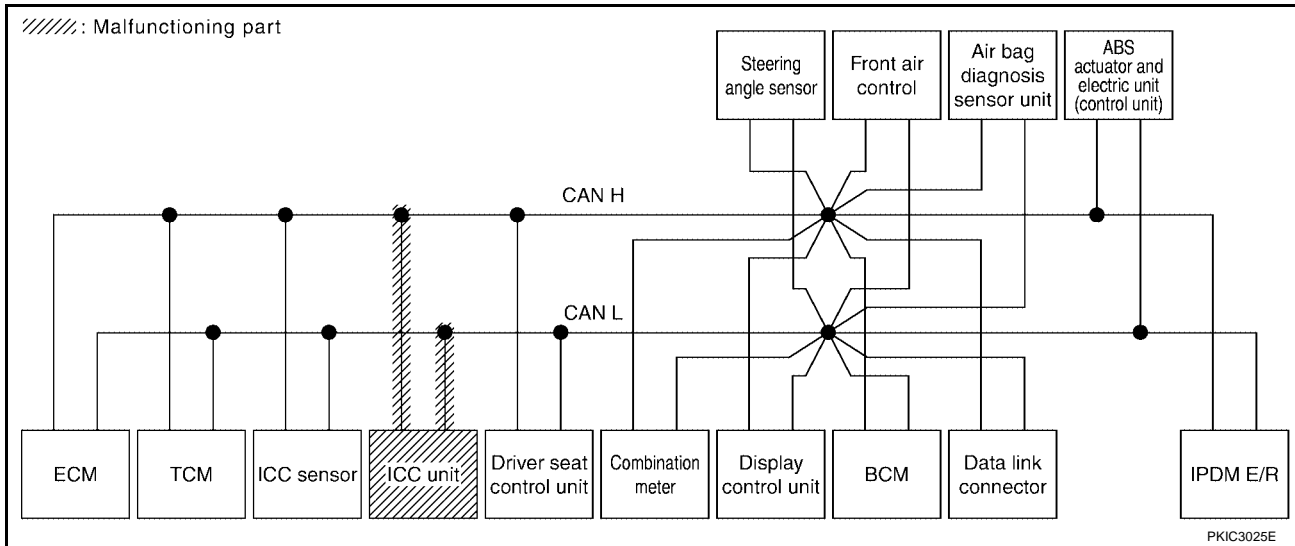
[CAN]

Case 9

Check ICC unit circuit. Refer to [LAN-130, "ICC Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R		
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3527E



PKIC3025E

CAN SYSTEM (TYPE 2)

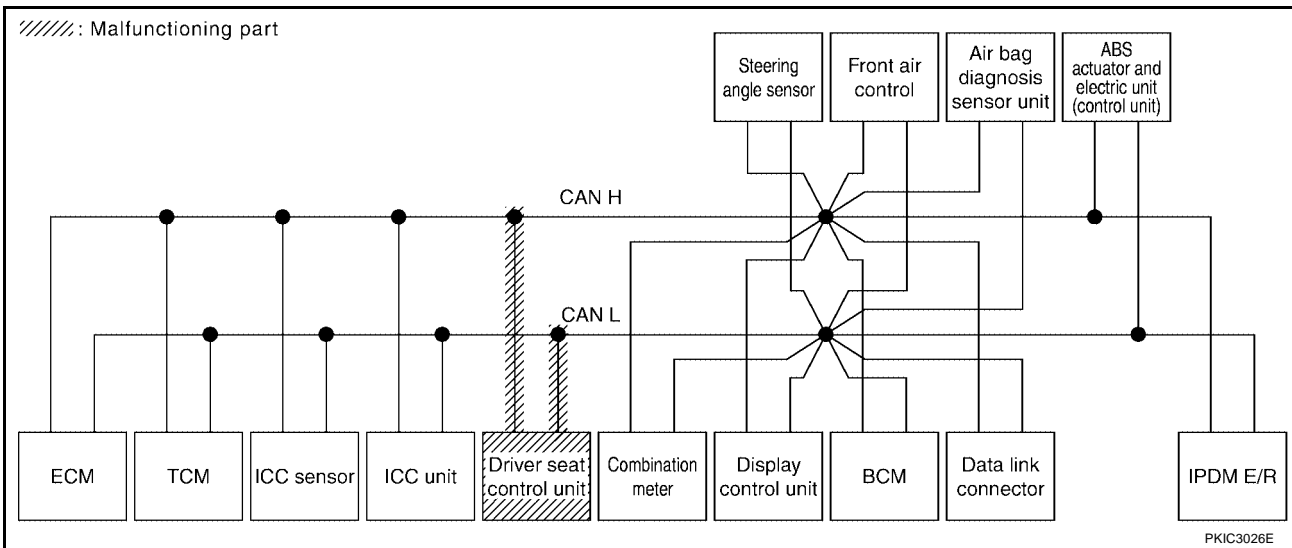
[CAN]

Case 10

Check driver seat control unit circuit. Refer to [LAN-130, "Driver Seat Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis													
			ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3528E



CAN SYSTEM (TYPE 2)

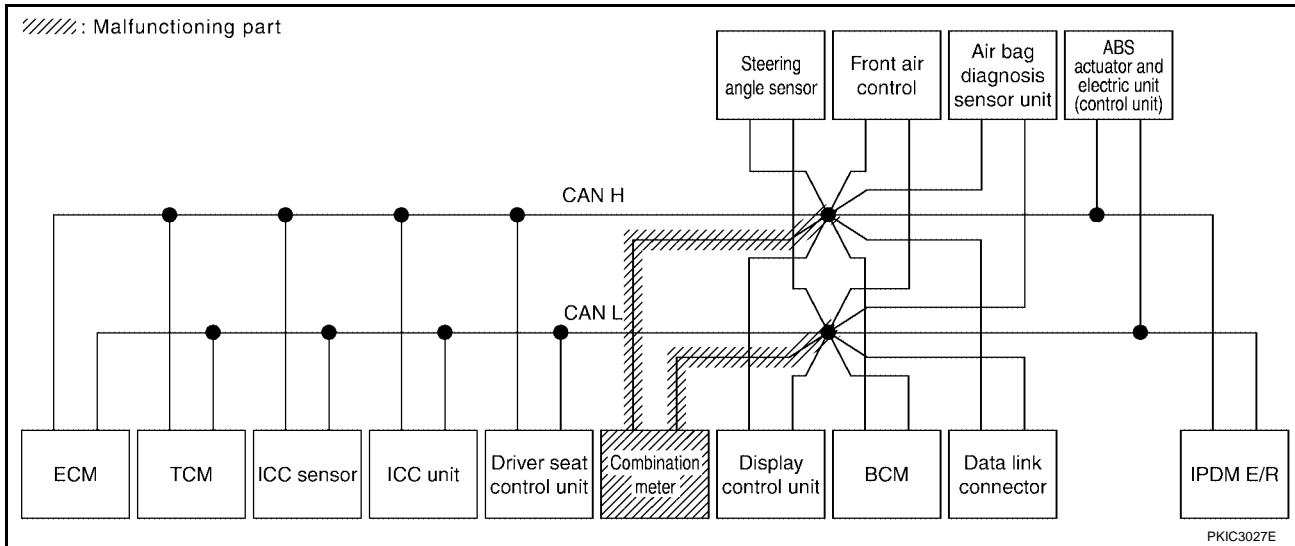
[CAN]

Case 11

Check combination meter circuit. Refer to [LAN-131, "Combination Meter Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R		
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	✓	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	✓	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	✓	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	✓	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	✓	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3529E



CAN SYSTEM (TYPE 2)

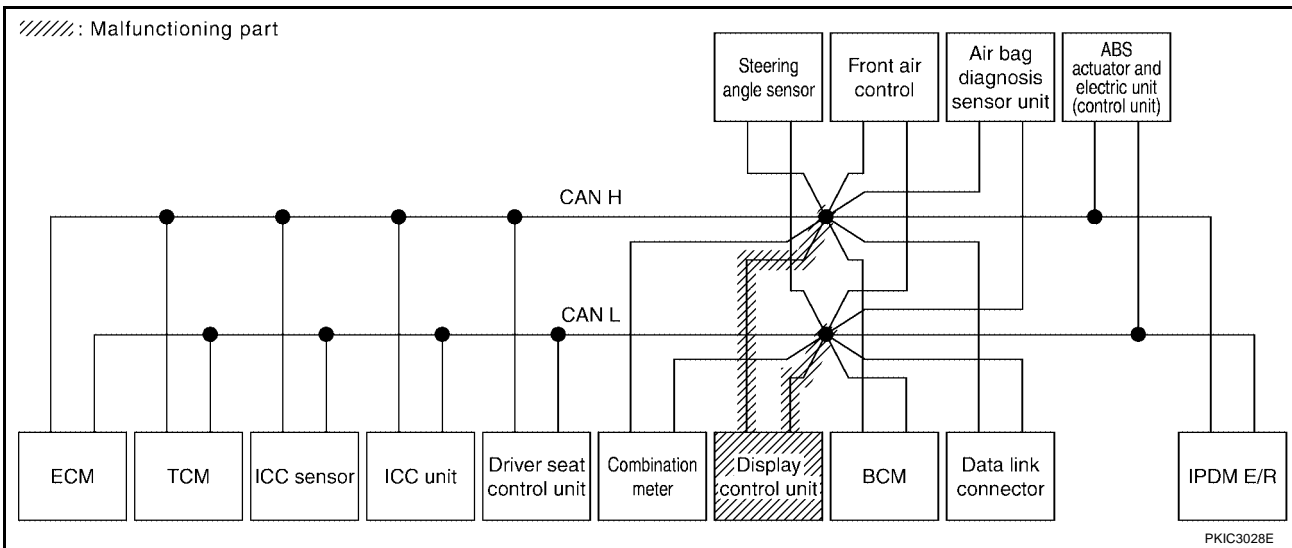
[CAN]

Case 12

Check display control unit circuit. Refer to [LAN-131, "Display Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												IPDM E/R
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	✓	✓	-	-	-	✓	-	✓	-	✓	-	✓	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	✓	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3530E



CAN SYSTEM (TYPE 2)

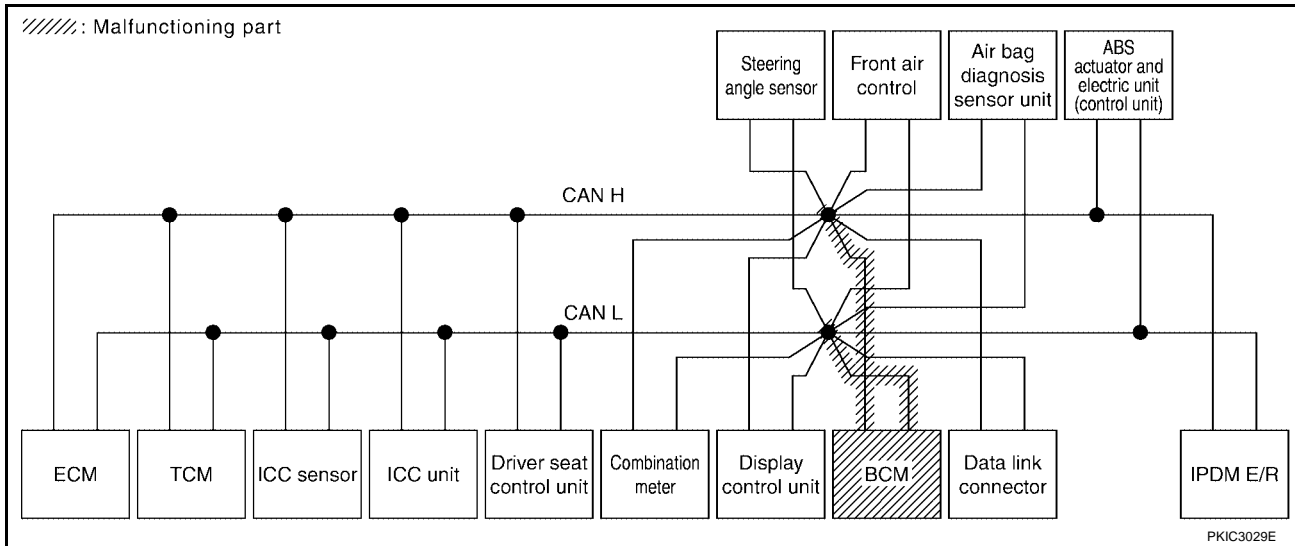
[CAN]

Case 13

Check BCM circuit. Refer to [LAN-132, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R		
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3531E



PKIC3029E

CAN SYSTEM (TYPE 2)

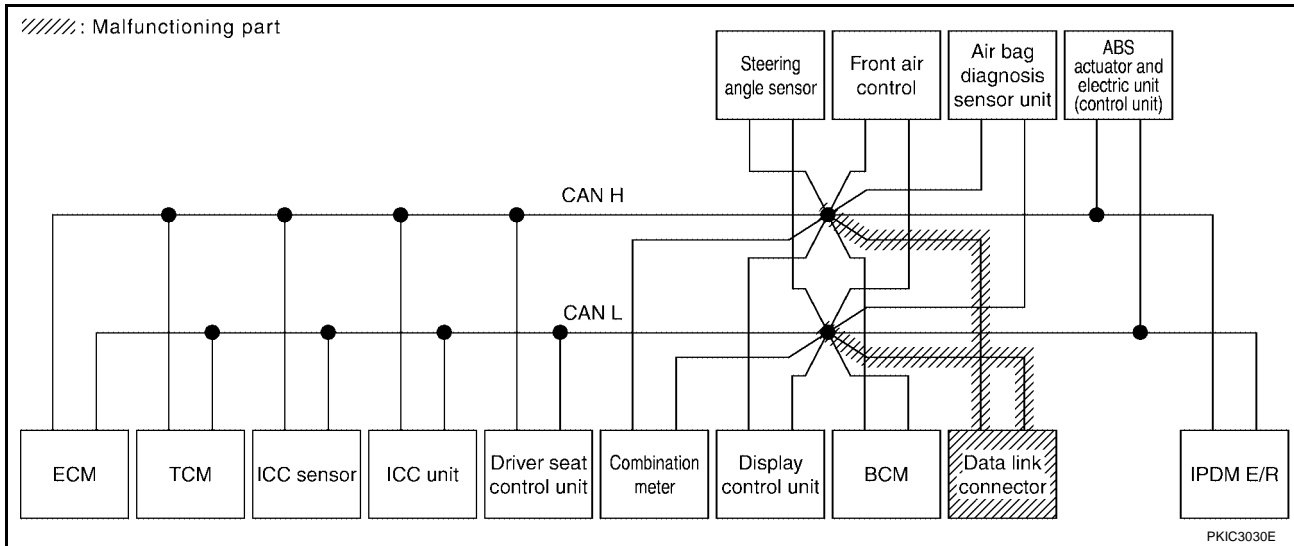
[CAN]

Case 14

Check data link connector circuit. Refer to [LAN-132. "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
			ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS				
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3532E



CAN SYSTEM (TYPE 2)

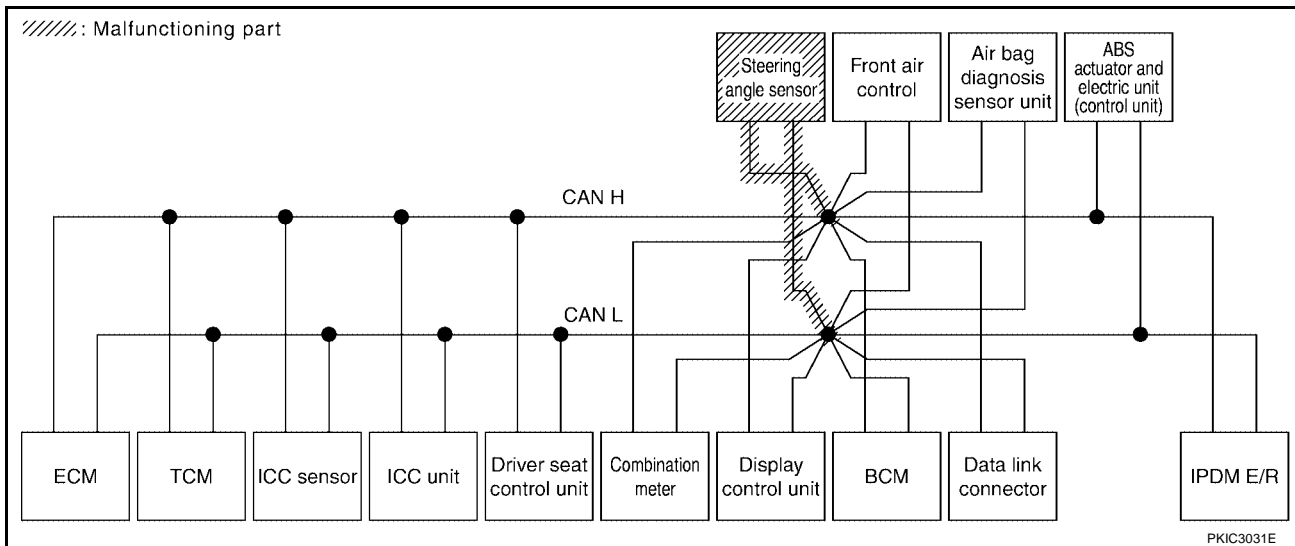
[CAN]

Case 15

Check steering angle sensor circuit. Refer to [LAN-133, "Steering Angle Sensor Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R		
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3533E



PKIC3031E

CAN SYSTEM (TYPE 2)

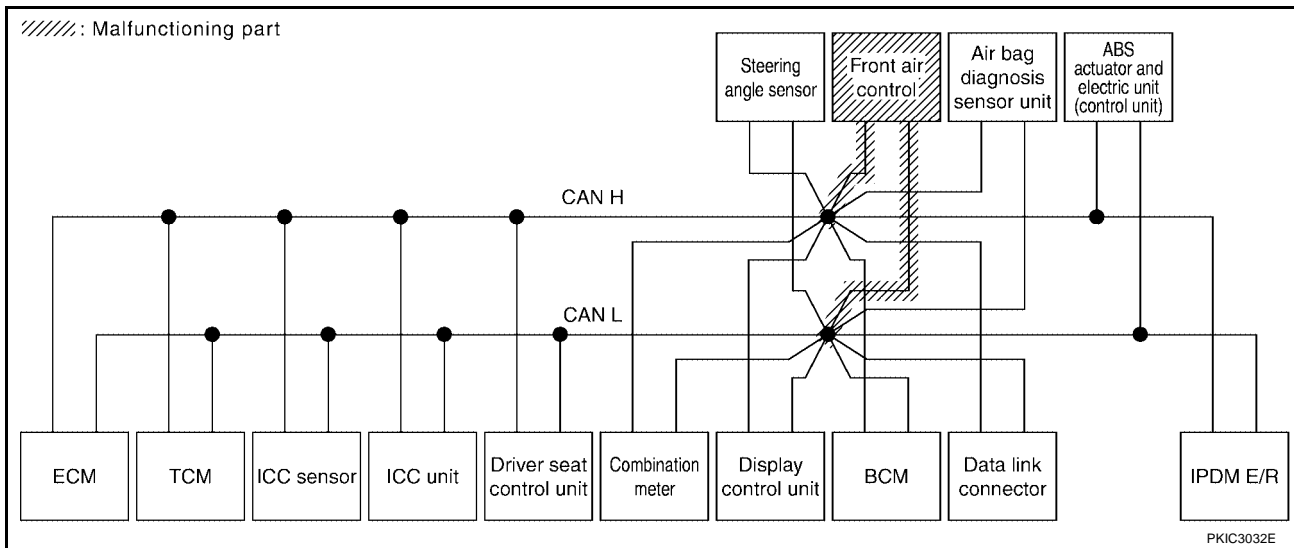
[CAN]

Case 16

Check front air control circuit. Refer to [LAN-133, "Front Air Control Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R		
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	✓	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3534E



CAN SYSTEM (TYPE 2)

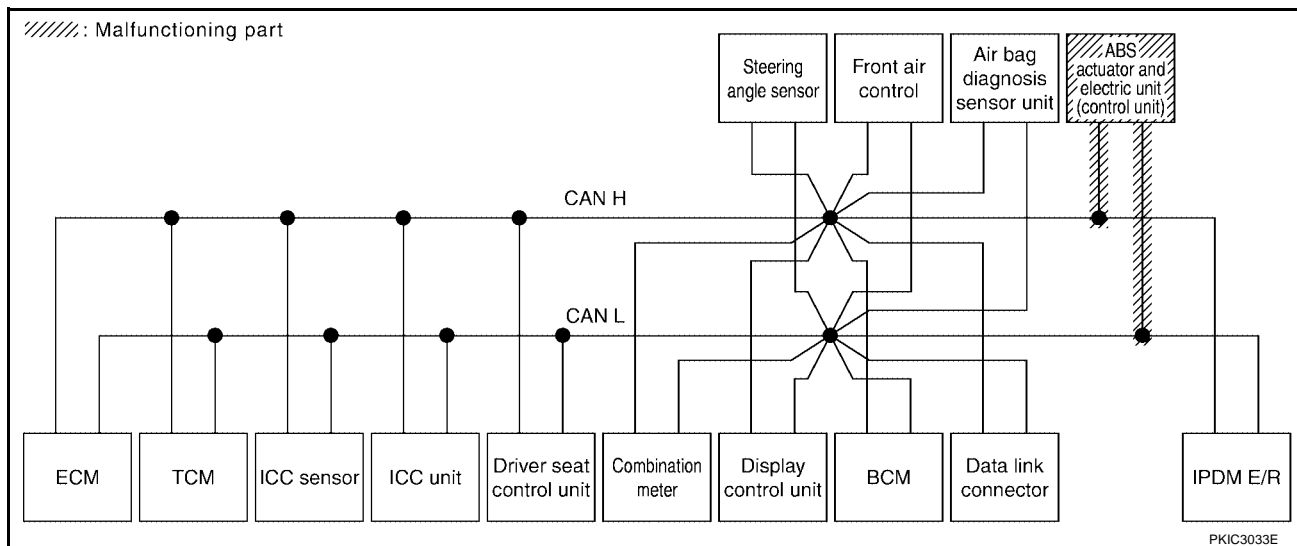
[CAN]

Case 17

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-134, "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	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			IPDM E/R
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	✓	✓	✓	✓	-	✓	-	-	-	✓	-	-	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3535E



PKIC3033E

CAN SYSTEM (TYPE 2)

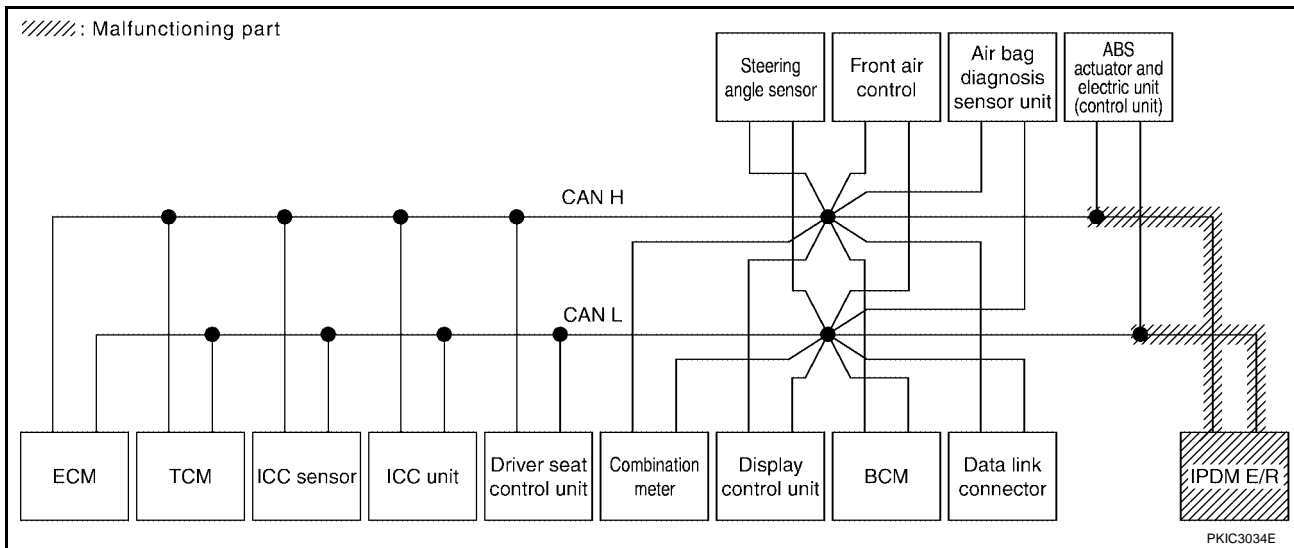
[CAN]

Case 18

Check IPDM E/R circuit. Refer to [LAN-135, "IPDM E/R Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R		
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3536E



Case 19

Check CAN communication circuit. Refer to [LAN-135, "CAN Communication Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R		
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3537E

CAN SYSTEM (TYPE 2)

[CAN]

Case 20

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-137, "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	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			IPDM E/R	
ENGINE	-	-	UNKWN	-	✓	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓	
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	
ICC	-	NG	UNKWN	UNKWN	✓	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	
AUTO DRIVE POS.	No indication	-	-	-	✓	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000) ✓	-	
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	

PKIC3538E

Case 21

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-137, "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	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS			IPDM E/R	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	-	NG	UNKWN	-	-	-	-	-	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000) ✓	-	
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
ABS	-	NG	UNKWN	-	UNKWN	-	-	-	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000) ✓	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	

PKIC3539E

CAN SYSTEM (TYPE 3)

[CAN]

CAN SYSTEM (TYPE 3)

PF:23710

Component Parts and Harness Connector Location

UKS004T3

A

Refer to [LAN-26, "Component Parts and Harness Connector Location"](#) .

Schematic

UKS004T4

B

Refer to [LAN-27, "Schematic"](#) .

Wiring Diagram — CAN —

UKS004T5

C

Refer to [LAN-28, "Wiring Diagram — CAN —"](#) .

D

E

F

G

H

I

J

LAN

L

M

CAN SYSTEM (TYPE 3)

[CAN]

UKS004T6

Check Sheet

NOTE:

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

Check sheet table														SELF-DIAG RESULTS		
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														
		Initial diagnosis	Transmit diagnosis	Receive diagnosis												
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-
ALL MODE AWD/4WD	-	NG	UNKWN	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	HVAC	CAN CIRC 9	-

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR check sheet

PKIC2952E

CAN SYSTEM (TYPE 3)

[CAN]

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

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of A/T SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS
Attach copy of HVAC 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 A/T CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR
Attach copy of HVAC 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

LAN

PKIB6773E

CAN SYSTEM (TYPE 3)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

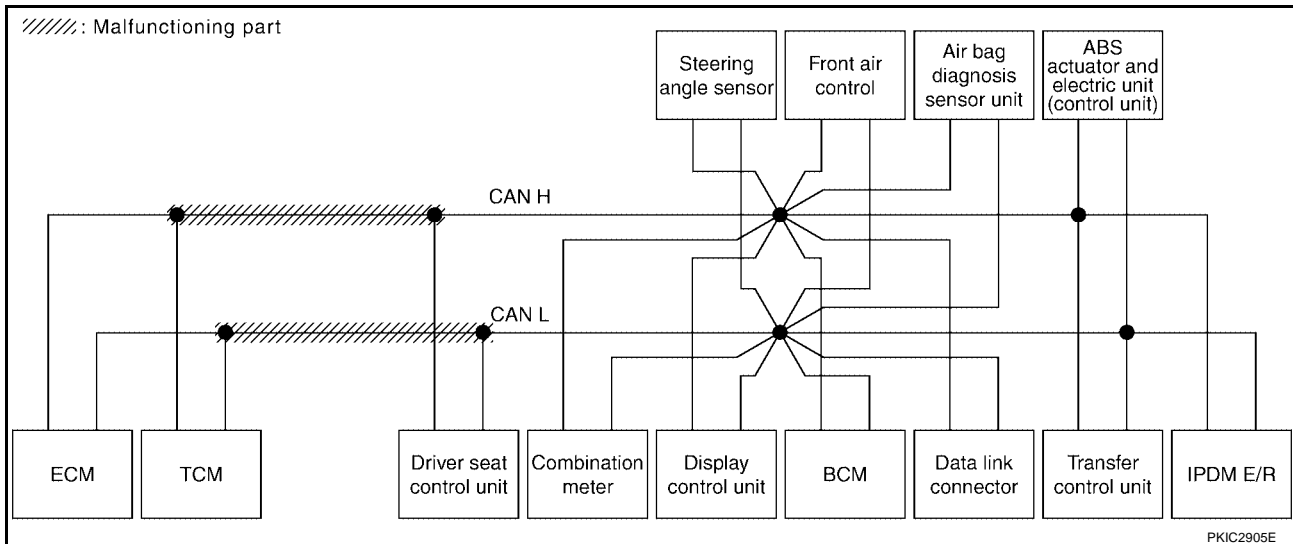
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and driver seat control unit. Refer to [LAN-124, "Inspection Between TCM and Driver Seat Control Unit Circuit"](#).

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

PKIC3499E



PKIC2905E

CAN SYSTEM (TYPE 3)

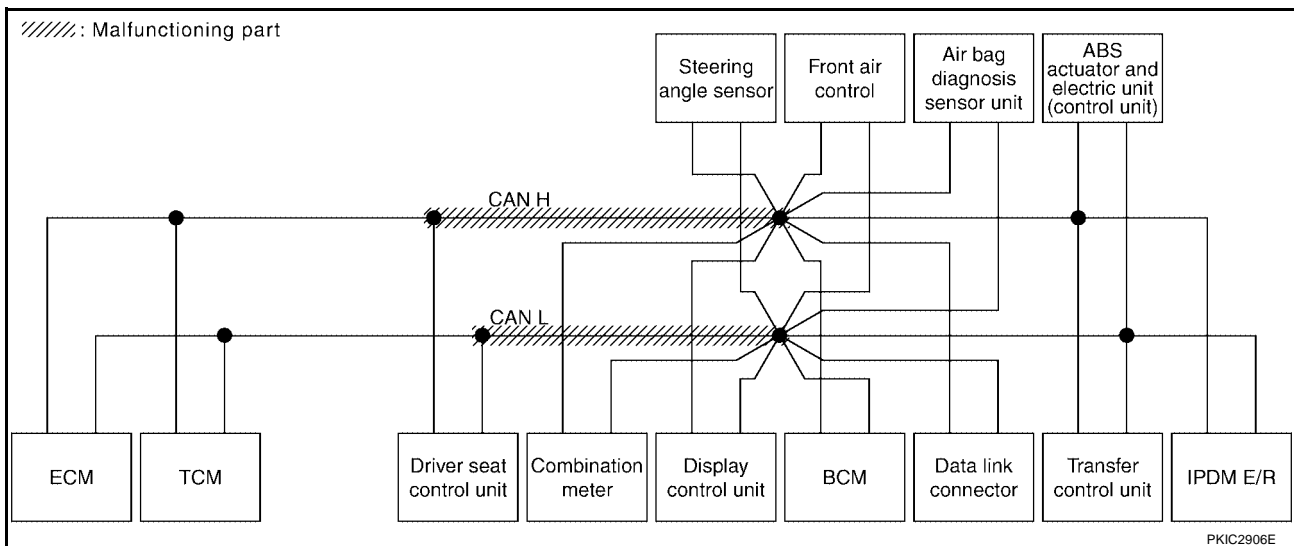
[CAN]

Case 2

Check harness between driver seat control unit and data link connector. Refer to [LAN-126, "Inspection Between Driver Seat Control Unit and Data Link Connector Circuit"](#) .

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

PKIC3500E



PKIC2906E

CAN SYSTEM (TYPE 3)

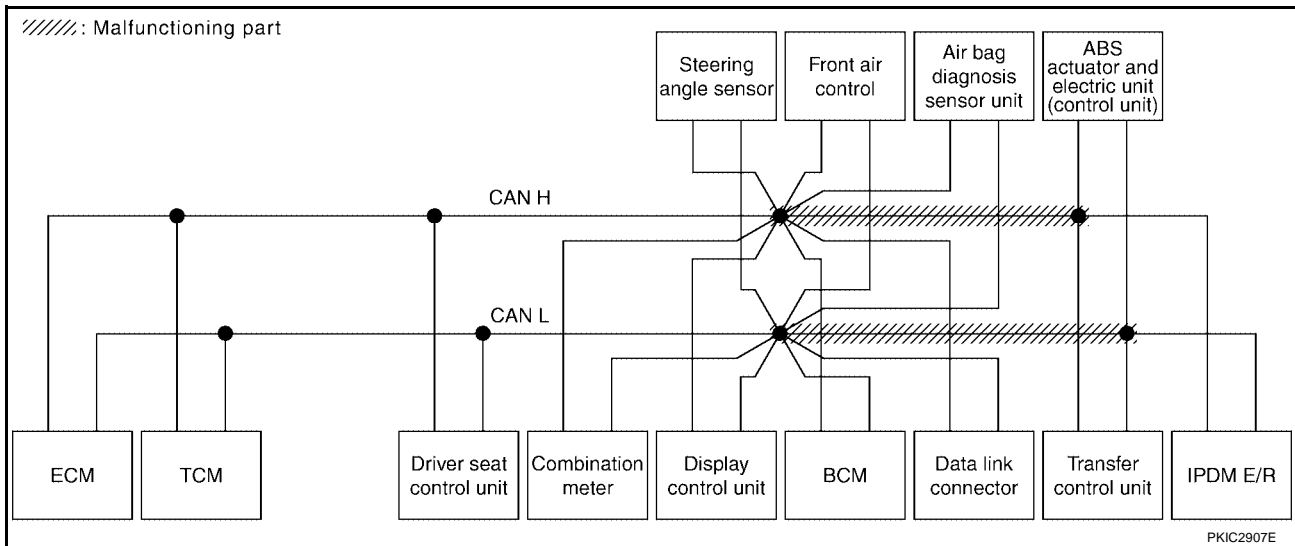
[CAN]

Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-127, "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											IPDM E/R
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	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)	-

PKIC3501E



PKIC2907E

CAN SYSTEM (TYPE 3)

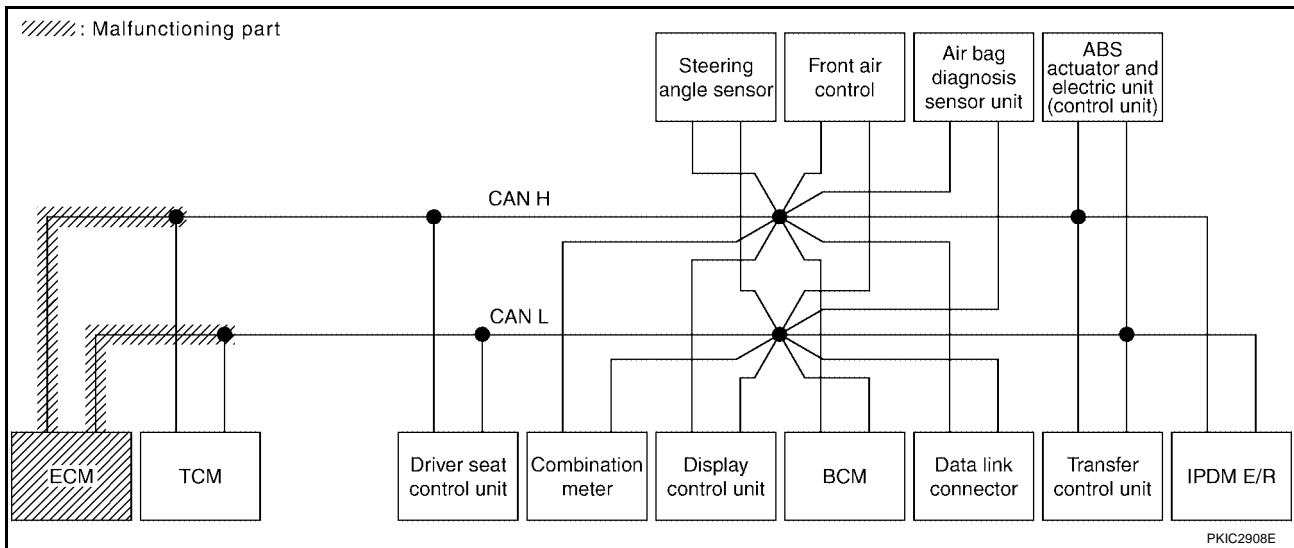
[CAN]

Case 4

Check ECM circuit. Refer to [LAN-128, "ECM Circuit Inspection"](#).

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

PKIC3502E



CAN SYSTEM (TYPE 3)

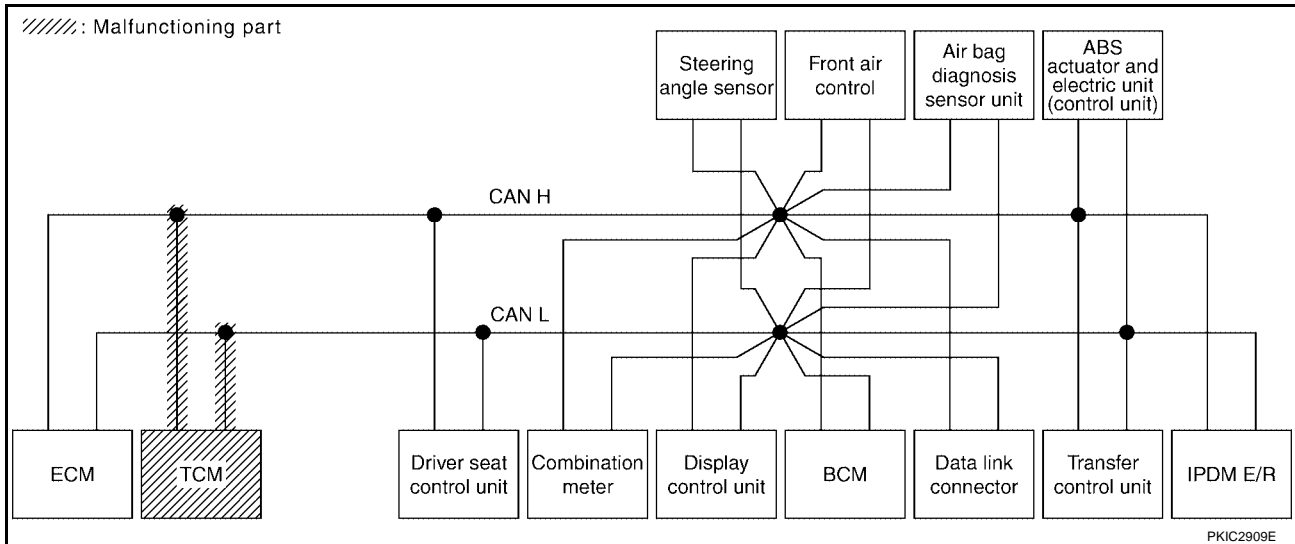
[CAN]

Case 5

Check TCM circuit. Refer to [LAN-129, "TCM Circuit Inspection"](#) .

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

PKIC3503E



PKIC2909E

CAN SYSTEM (TYPE 3)

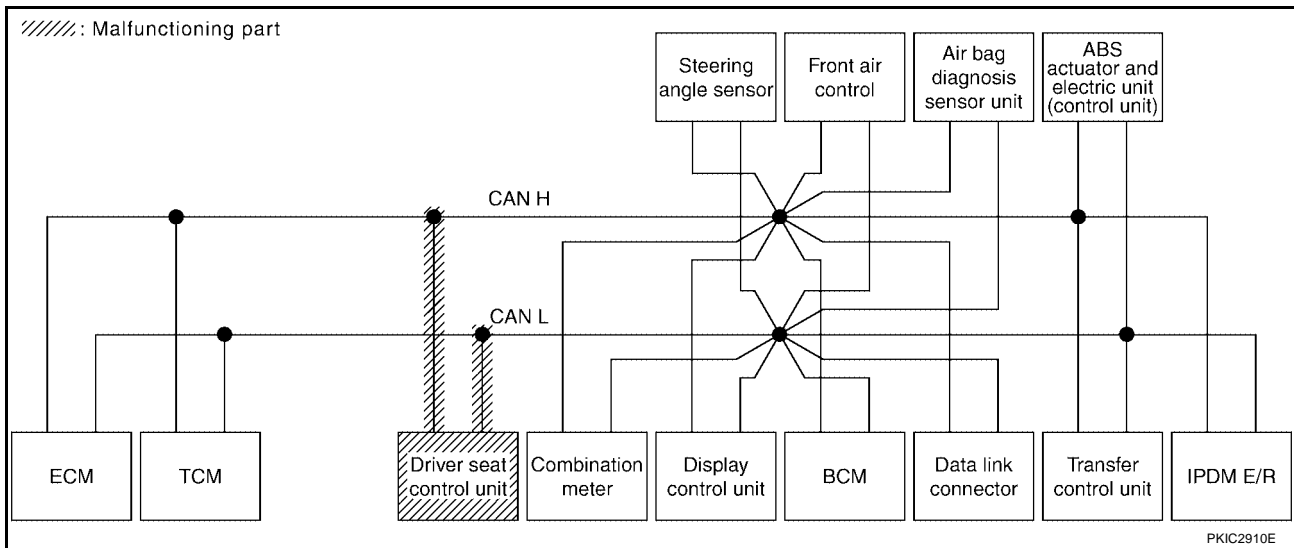
[CAN]

Case 6

Check driver seat control unit circuit. Refer to [LAN-130, "Driver Seat Control Unit Circuit Inspection"](#) .

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

PKIC3504E



CAN SYSTEM (TYPE 3)

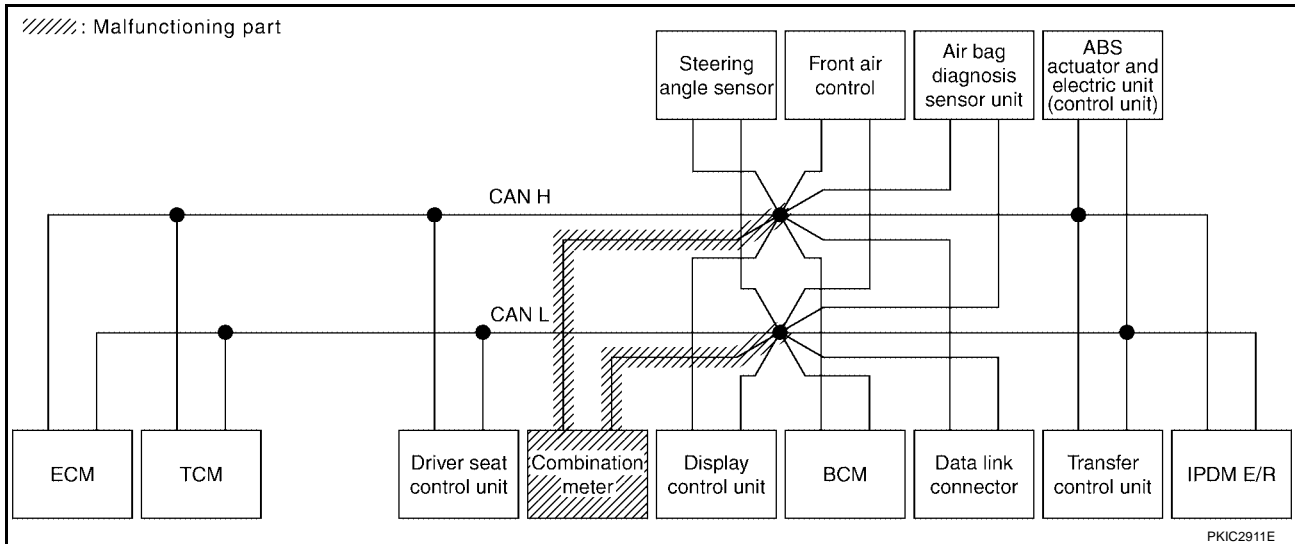
[CAN]

Case 7

Check combination meter circuit. Refer to [LAN-131, "Combination Meter Circuit Inspection"](#).

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

PKIC3505E



PKIC2911E

CAN SYSTEM (TYPE 3)

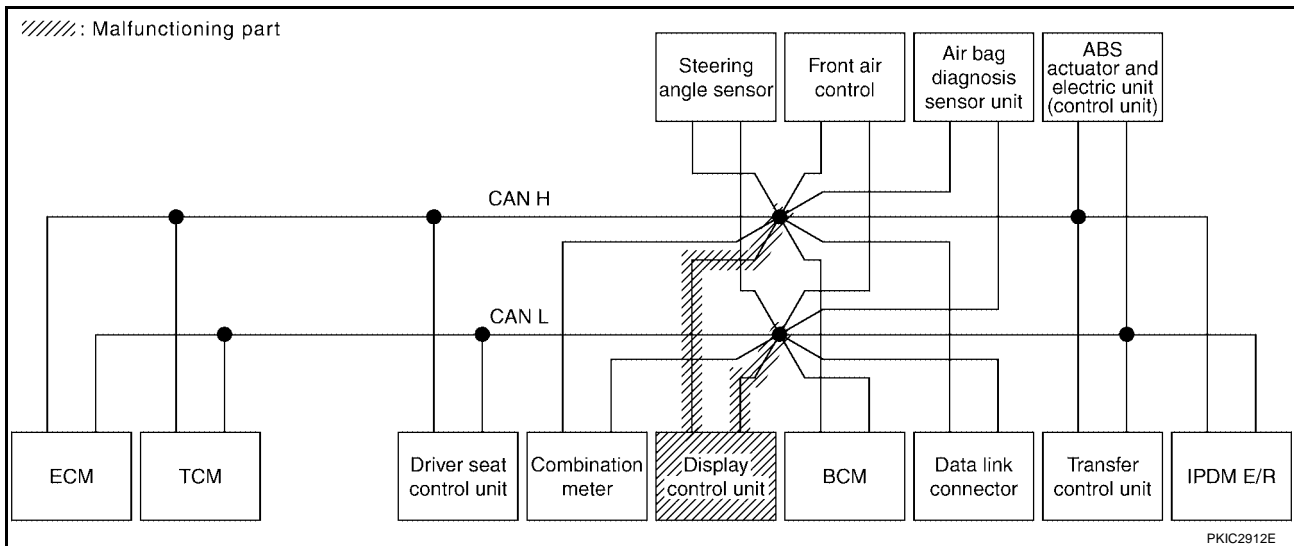
[CAN]

Case 8

Check display control unit circuit. Refer to [LAN-131, "Display Control Unit Circuit Inspection"](#).

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

PKIC3506E



CAN SYSTEM (TYPE 3)

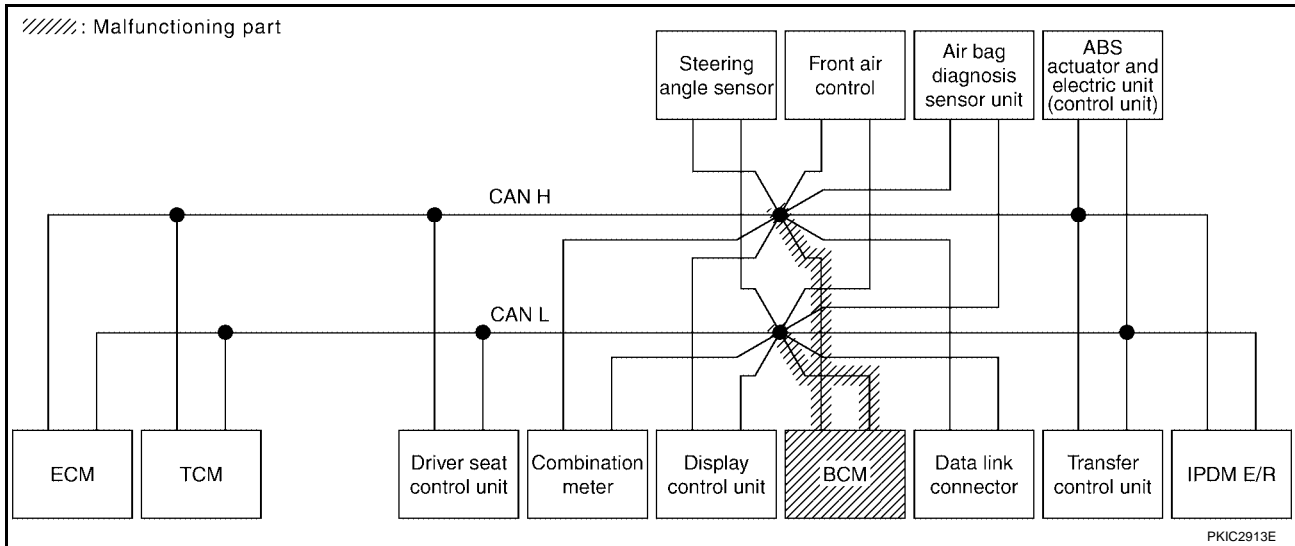
[CAN]

Case 9

Check BCM circuit. Refer to [LAN-132. "BCM Circuit Inspection"](#) .

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

PKIC3507E



PKIC2913E

CAN SYSTEM (TYPE 3)

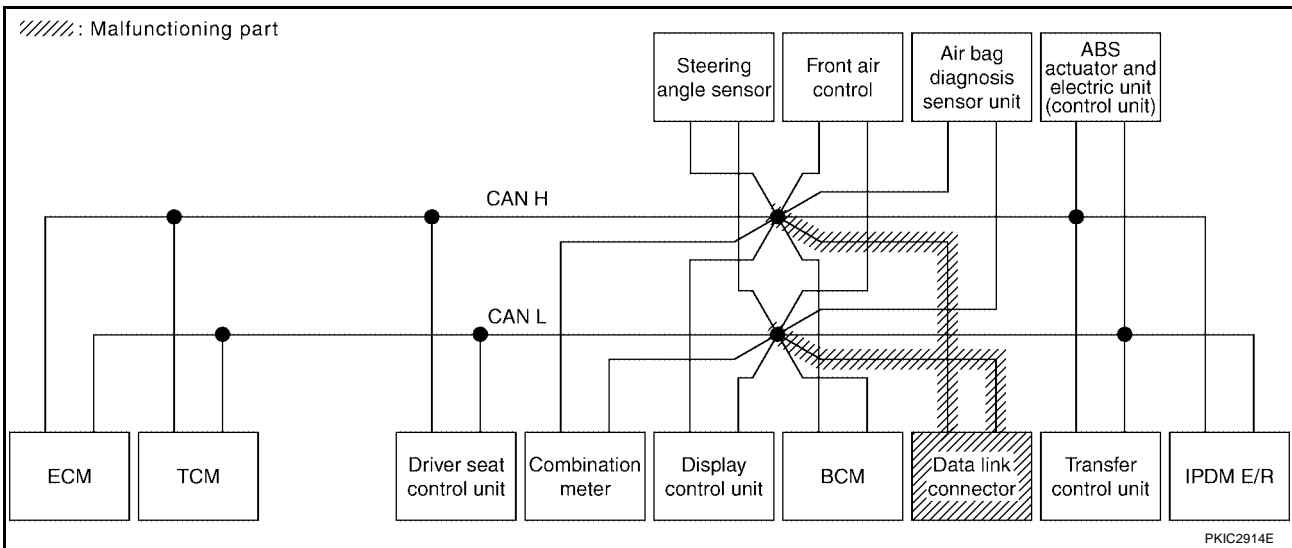
[CAN]

Case 10

Check data link connector circuit. Refer to [LAN-132. "Data Link Connector Circuit Inspection"](#) .

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

PKIC3508E



CAN SYSTEM (TYPE 3)

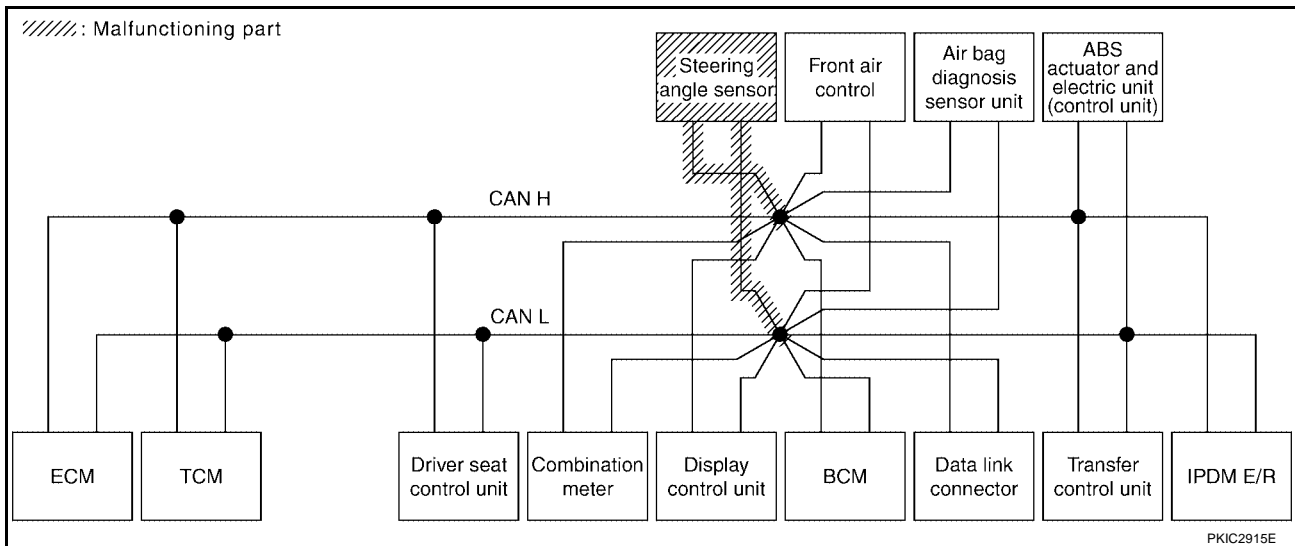
[CAN]

Case 11

Check steering angle sensor circuit. Refer to [LAN-133, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC3509E



PKIC2915E

CAN SYSTEM (TYPE 3)

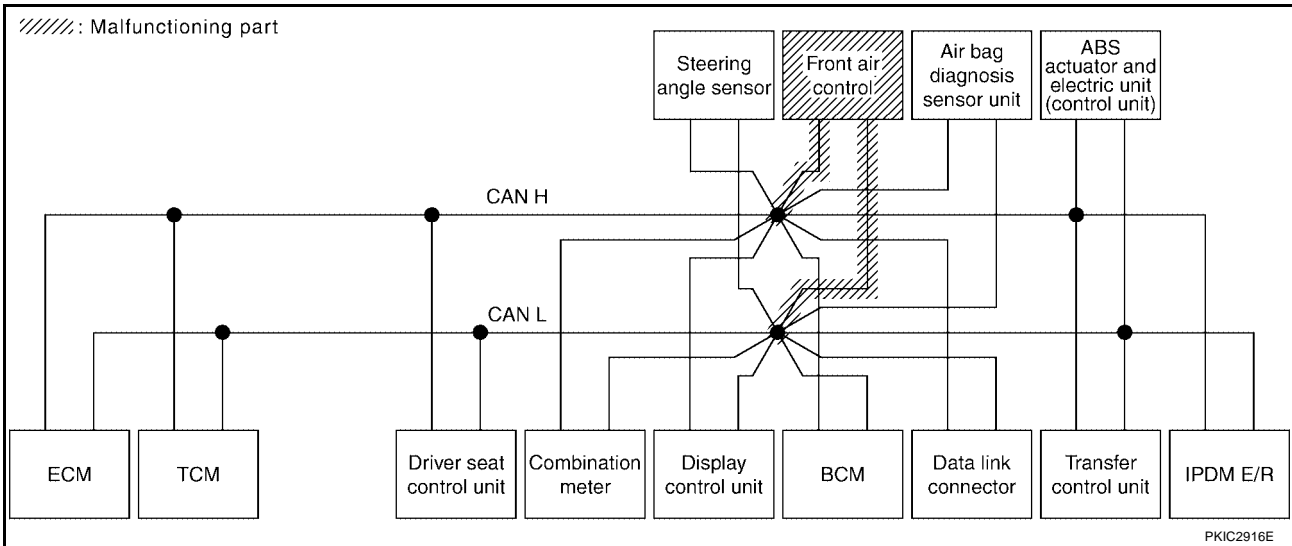
[CAN]

Case 12

Check front air control circuit. Refer to [LAN-133, "Front Air Control Circuit Inspection"](#) .

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

PKIC3510E



CAN SYSTEM (TYPE 3)

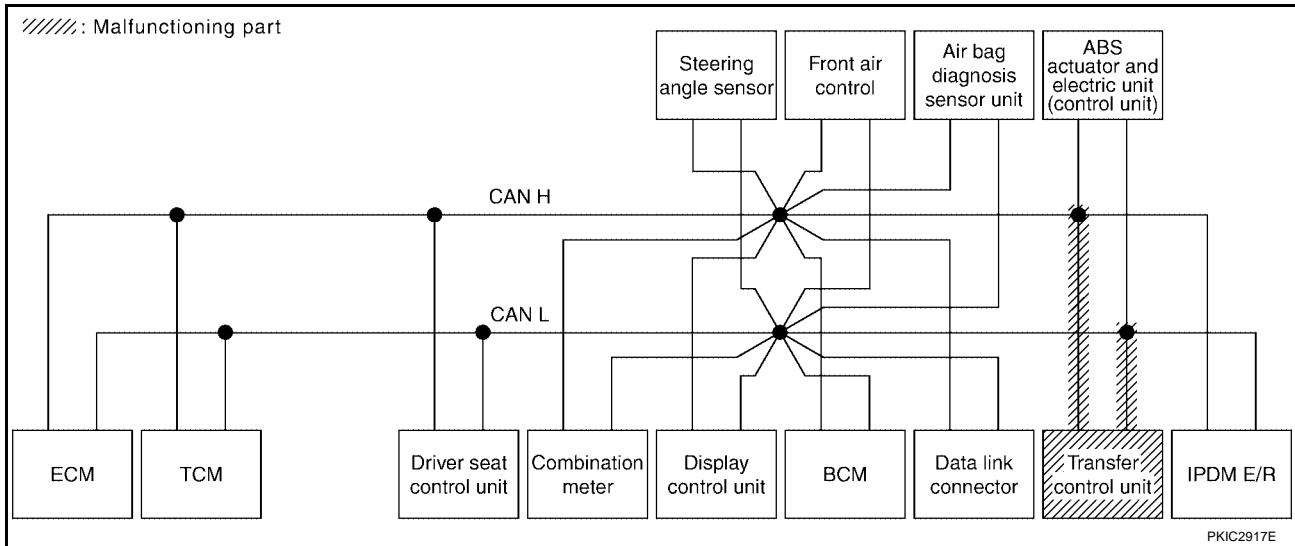
[CAN]

Case 13

Check transfer control unit circuit. Refer to [LAN-134, "Transfer Control Unit Circuit Inspection"](#) .

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

PKIC3511E



CAN SYSTEM (TYPE 3)

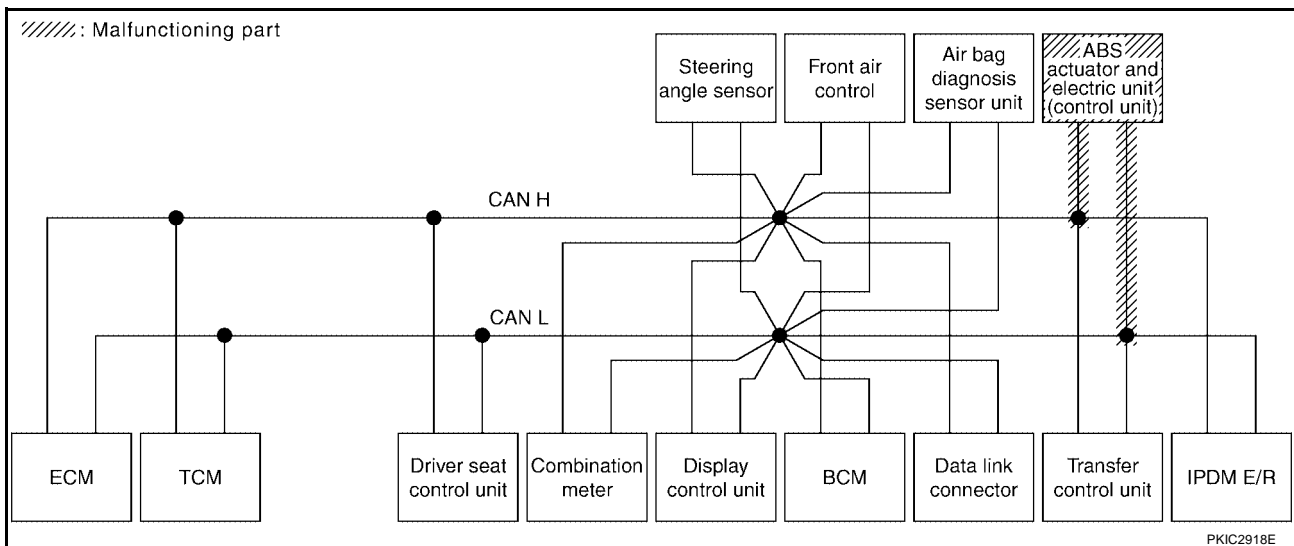
[CAN]

Case 14

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-134, "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											IPDM E/R
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	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)	-

PKIC3512E



PKIC2918E

CAN SYSTEM (TYPE 3)

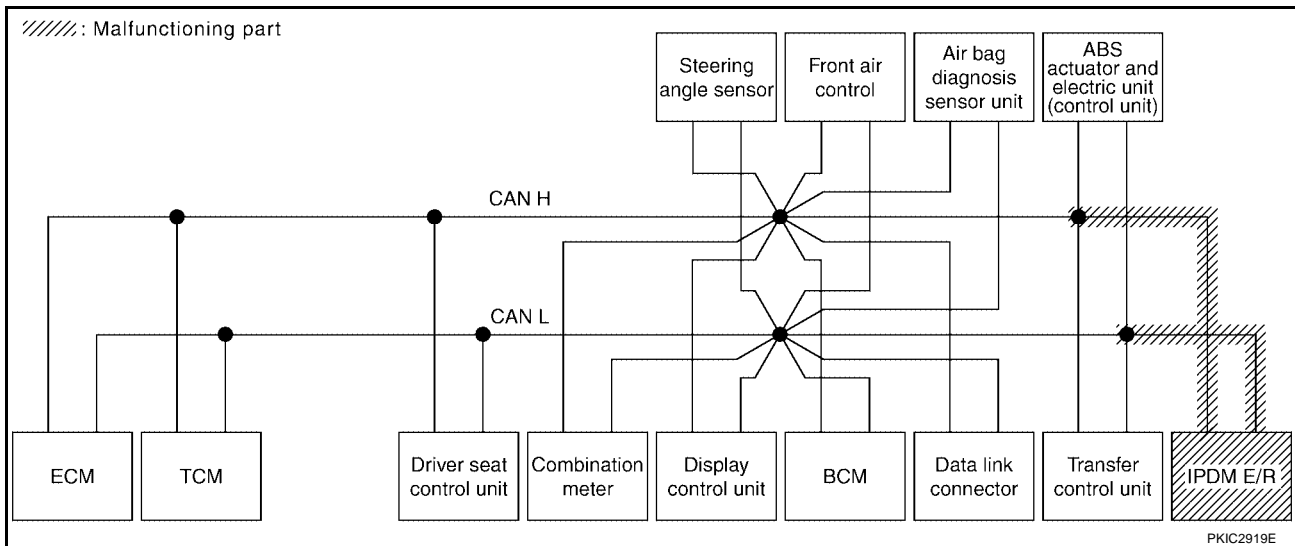
[CAN]

Case 15

Check IPDM E/R circuit. Refer to [LAN-135, "IPDM E/R Circuit Inspection"](#) .

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

PKIC3513E



Case 16

Check CAN communication circuit. Refer to [LAN-135, "CAN Communication Circuit Inspection"](#) .

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

PKIC3514E

CAN SYSTEM (TYPE 3)

[CAN]

Case 17

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-137, "IPDM E/R Ignition Relay Circuit Inspection"](#).

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

PKIC3515E

Case 18

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-137, "IPDM E/R Ignition Relay Circuit Inspection"](#).

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

PKIC3516E

CAN SYSTEM (TYPE 4)

PF2P:23710

Component Parts and Harness Connector Location

UKS004T7

Refer to [LAN-26, "Component Parts and Harness Connector Location"](#) .

Schematic

UKS004T8

Refer to [LAN-27, "Schematic"](#) .

Wiring Diagram — CAN —

UKS004T9

Refer to [LAN-28, "Wiring Diagram — CAN —"](#) .

CAN SYSTEM (TYPE 4)

[CAN]

UKS004TA

Check Sheet

NOTE:

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

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

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	HVAC	CAN CIRC 9	-

Attach copy of
display control unit
CAN DIAG SUPPORT MONITOR check sheet

PKIC3518E

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

LAN

CAN SYSTEM (TYPE 4)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
ICC
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
HVAC
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

SKIB3453E

CAN SYSTEM (TYPE 4)

[CAN]

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

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
A/T
CAN DIAG SUPPORT
MNTR

Attach copy of
ICC
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
HVAC
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

SKIB3454E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

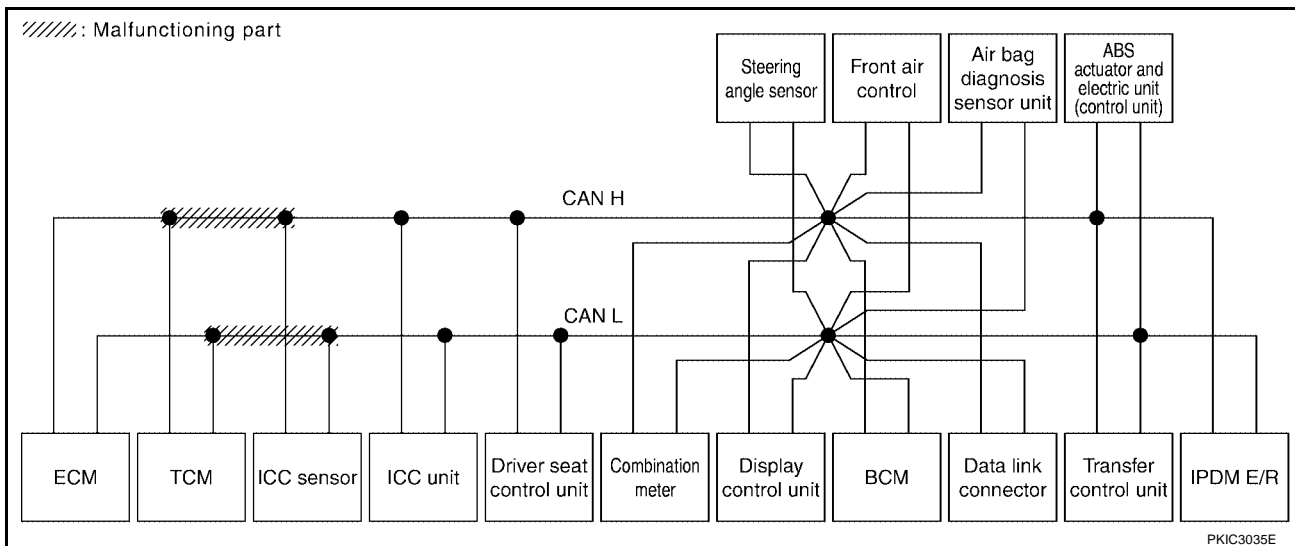
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and ICC sensor. Refer to [LAN-123. "Inspection Between TCM and ICC Sensor Circuit"](#).

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

PKIC3540E



CAN SYSTEM (TYPE 4)

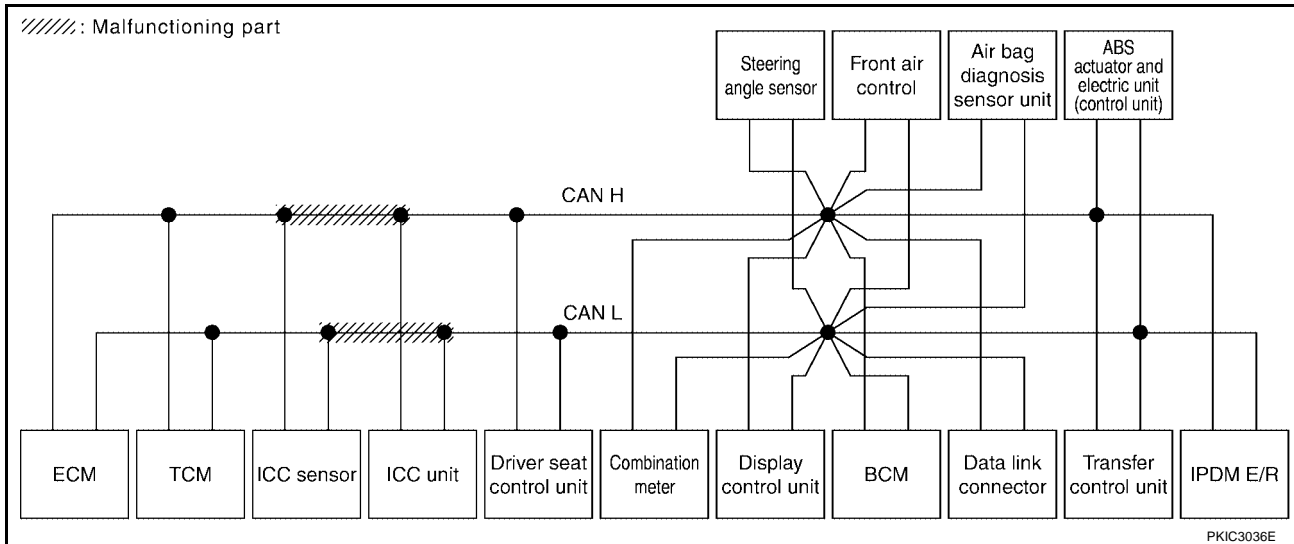
[CAN]

Case 2

Check harness between ICC sensor and ICC unit. Refer to [LAN-125, "Inspection Between ICC Sensor and ICC Unit Circuit"](#) .

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

PKIC3541E



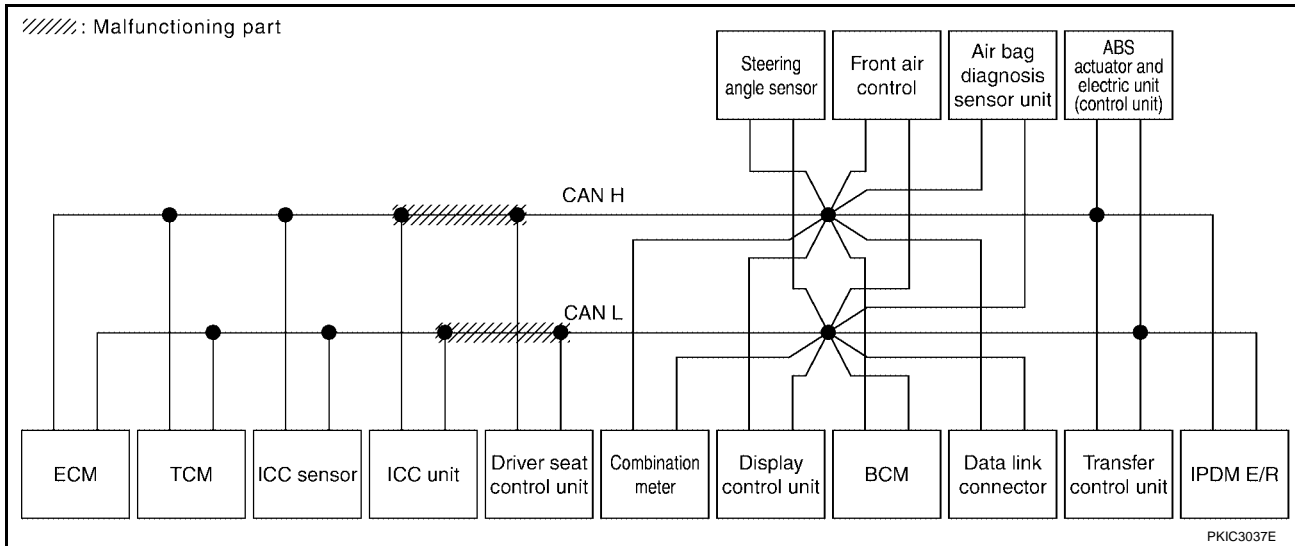
PKIC3036E

Case 3

Check harness between ICC unit and driver seat control unit. Refer to [LAN-126, "Inspection Between ICC Unit and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
				ECM	TCM	ICC SENSOR	ICC@4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD				VDC/TCS /ABS
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	✓	-	✓	-	-	✓	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	✓	-	-	-	-	✓	✓	-	CAN COMM CIRCUIT (U000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	✓	-	-	-	✓	-	CAN COMM CIRCUIT (U000)	-
AUTO DRIVE POS.	No indication	-	-	-	✓	-	-	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U000)	-
Display control unit	-	NG	UNKWN	✓	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	✓	-	-	-	UNKWN	-	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	✓	-	-	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	✓	✓	-	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U000)	-
ABS	-	NG	UNKWN	✓	✓	-	✓	-	-	-	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U000)	-
IPDM E/R	No indication	-	UNKWN	✓	-	-	-	-	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U000)	-

PKIC3542E



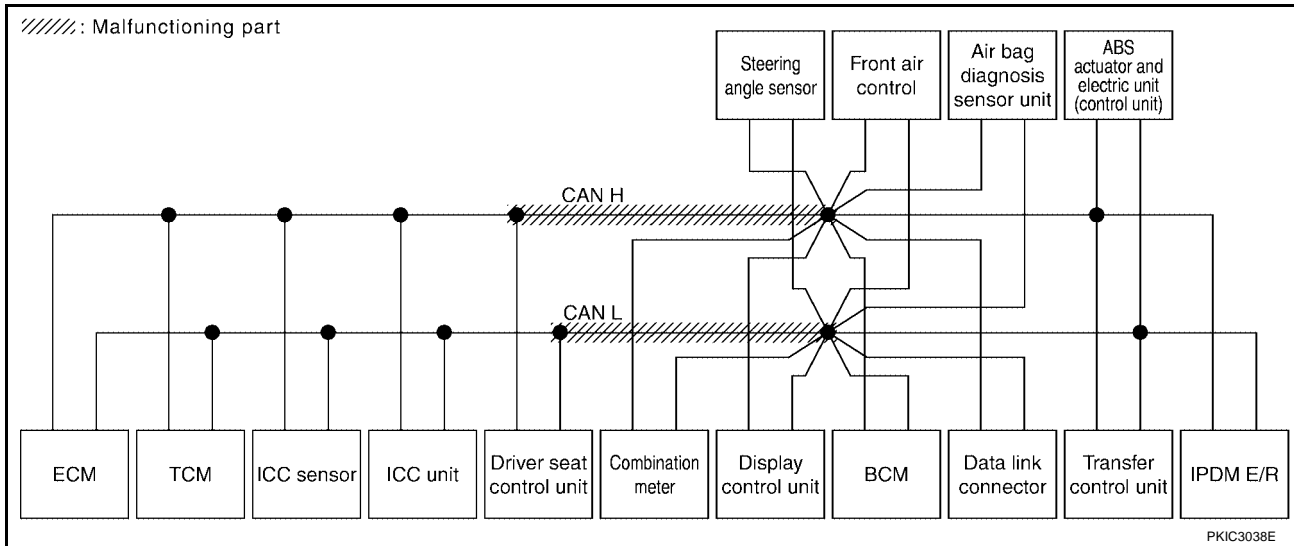
PKIC3037E

Case 4

Check harness between driver seat control unit and data link connector. Refer to [LAN-126, "Inspection Between Driver Seat Control Unit and Data Link Connector Circuit"](#) .

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

PKIC3543E



PKIC3038E

CAN SYSTEM (TYPE 4)

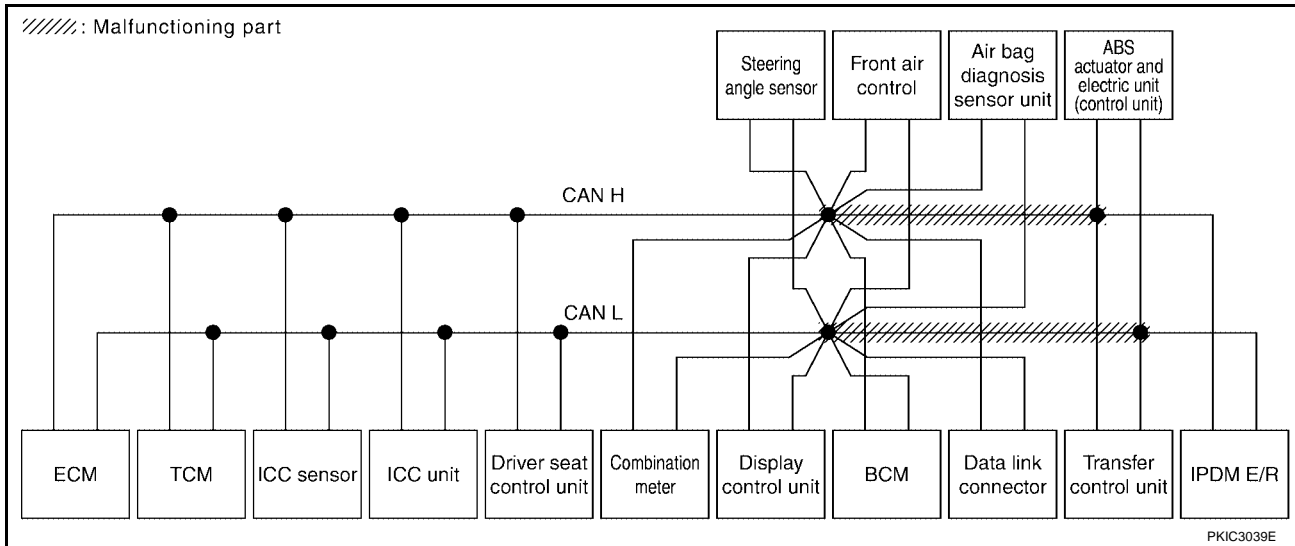
[CAN]

Case 5

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-127, "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										IPDM E/R			
				ECM	TCM	ICC SENSOR	ICC@4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD				VDC/TCS /ABS
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U000)	-

PKIC3544E



PKIC3039E

CAN SYSTEM (TYPE 4)

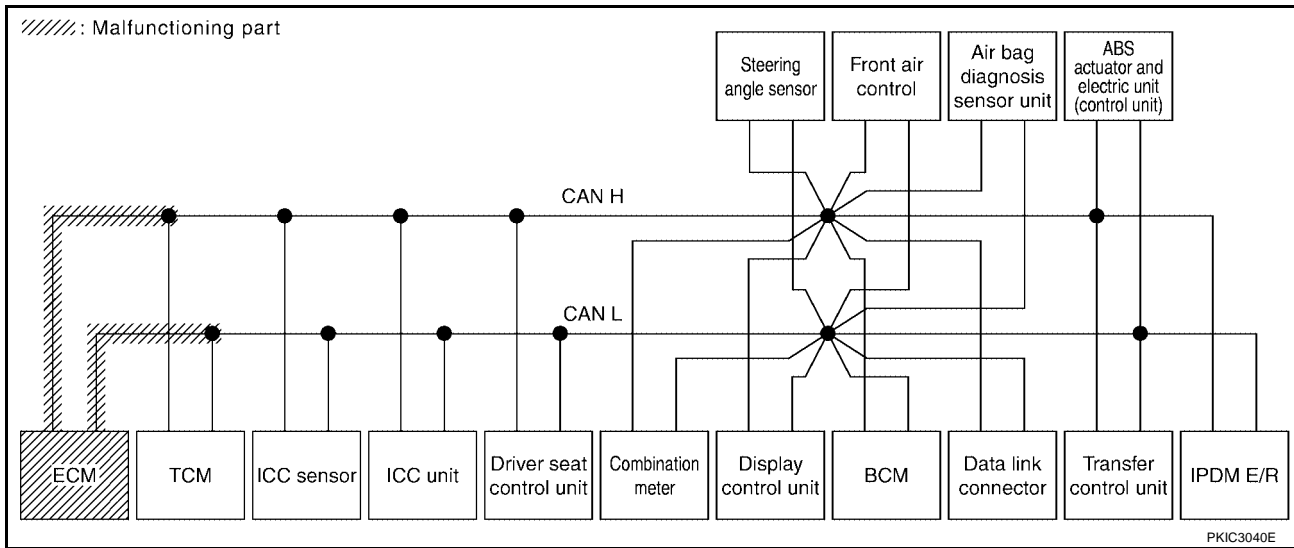
[CAN]

Case 6

Check ECM circuit. Refer to [LAN-128, "ECM Circuit Inspection"](#).

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

PKIC3545E



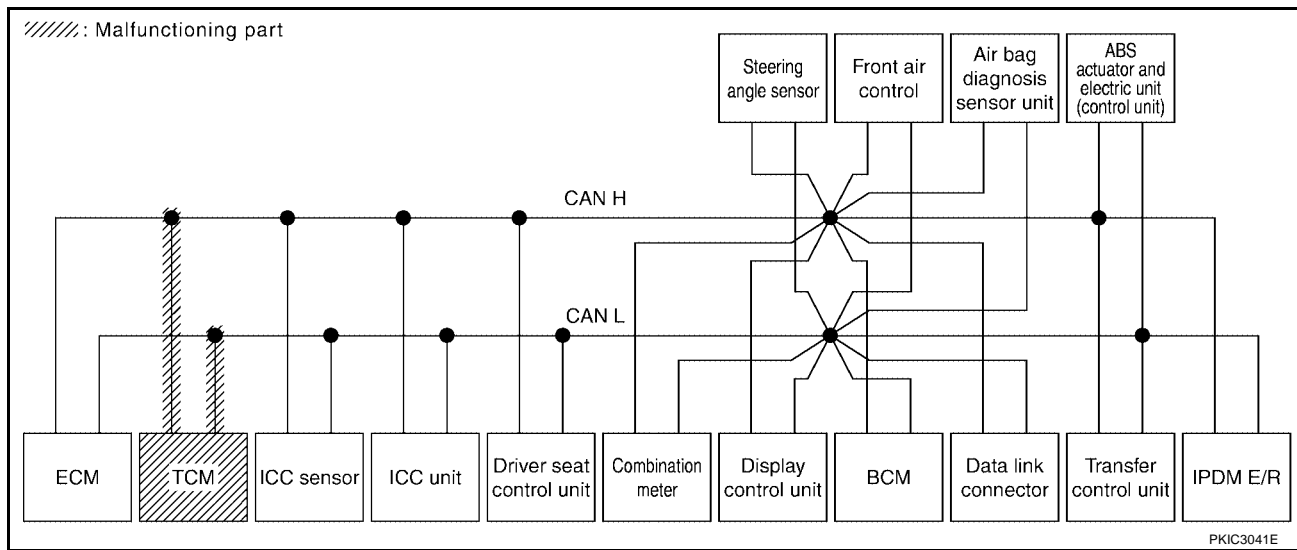
PKIC3040E

Case 7

Check TCM circuit. Refer to [LAN-129, "TCM Circuit Inspection"](#) .

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

PKIC3546E



PKIC3041E

CAN SYSTEM (TYPE 4)

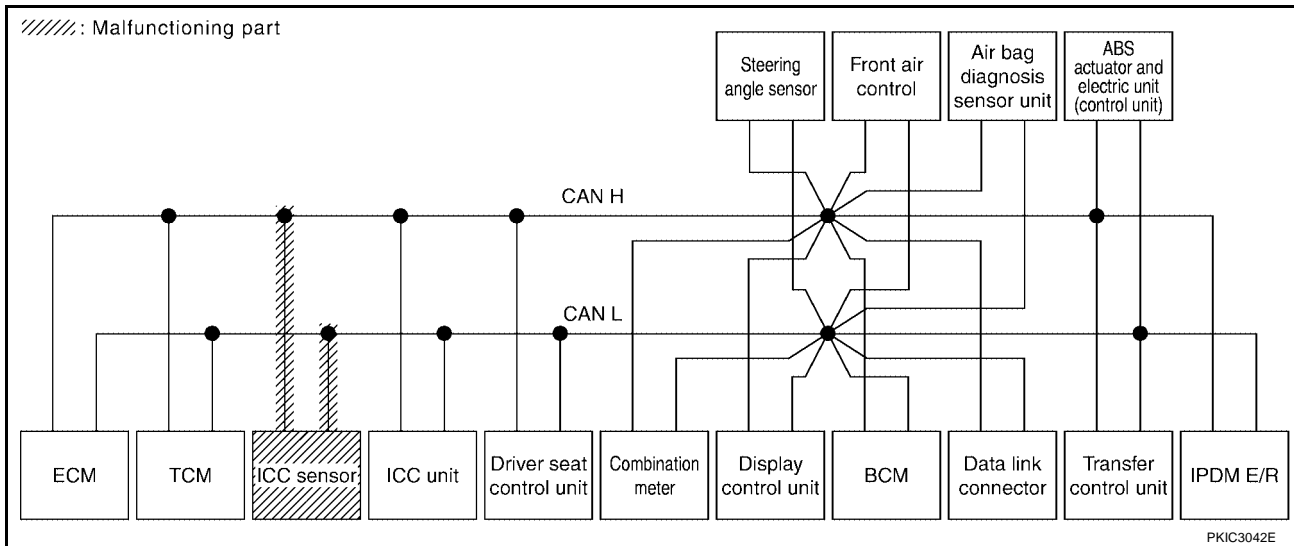
[CAN]

Case 8

Check ICC sensor circuit. Refer to [LAN-129, "ICC Sensor Circuit Inspection"](#).

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

PKIC3547E



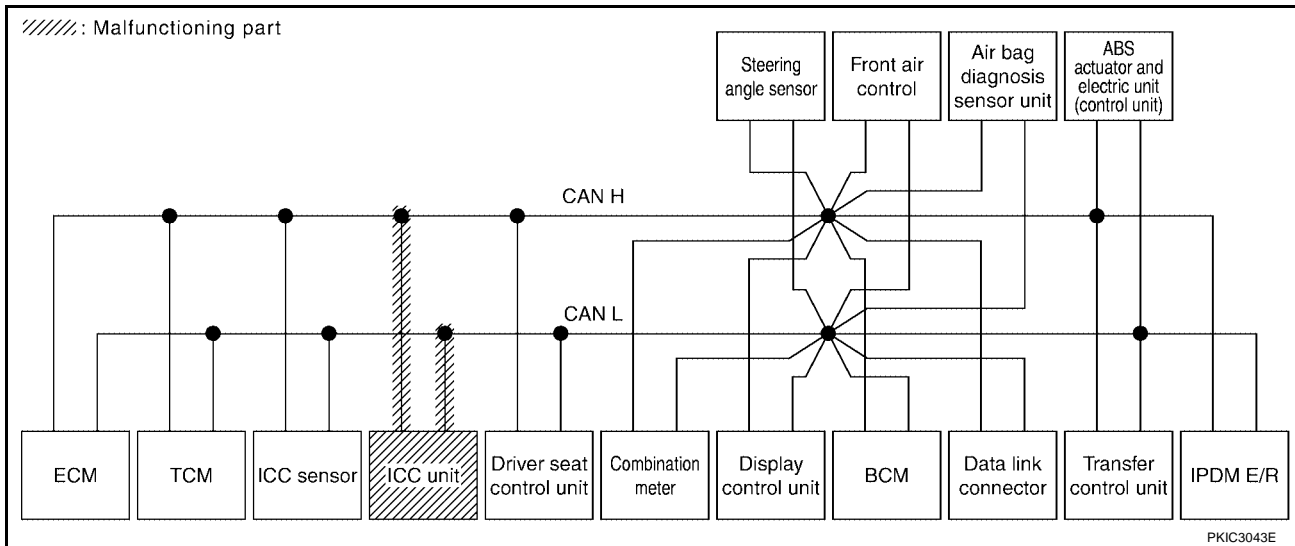
PKIC3042E

Case 9

Check ICC unit circuit. Refer to [LAN-130, "ICC Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
				ECM	TCM	ICC SENSOR	ICC&4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD				VDC/TCS /ABS
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3548E



PKIC3043E

CAN SYSTEM (TYPE 4)

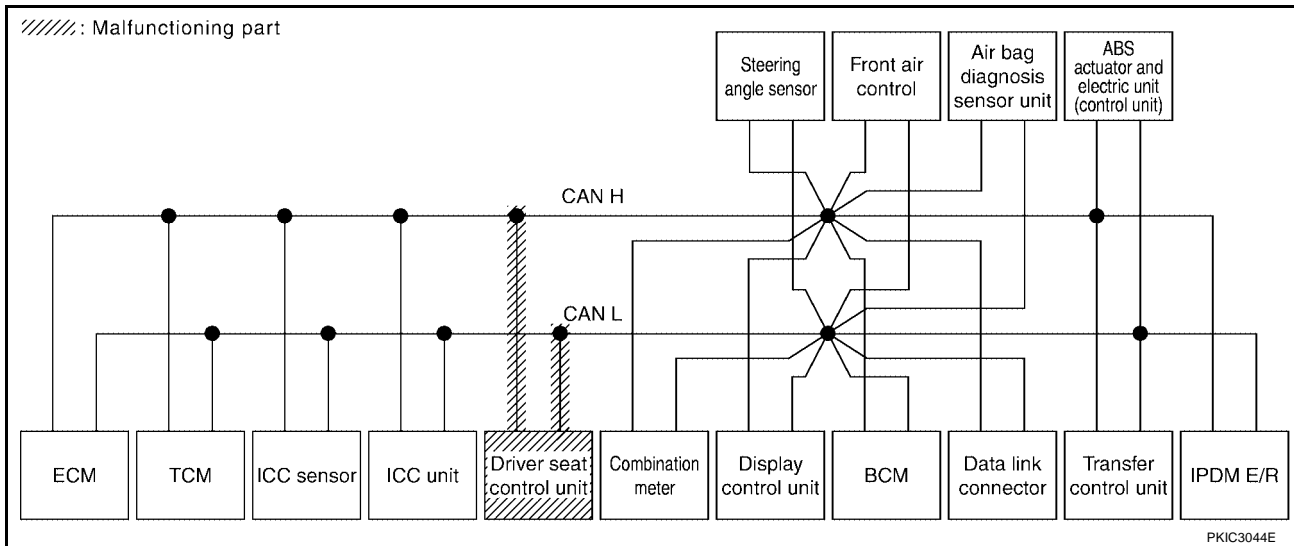
[CAN]

Case 10

Check driver seat control unit circuit. Refer to [LAN-130, "Driver Seat Control Unit Circuit Inspection"](#) .

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

PKIC3549E



PKIC3044E

CAN SYSTEM (TYPE 4)

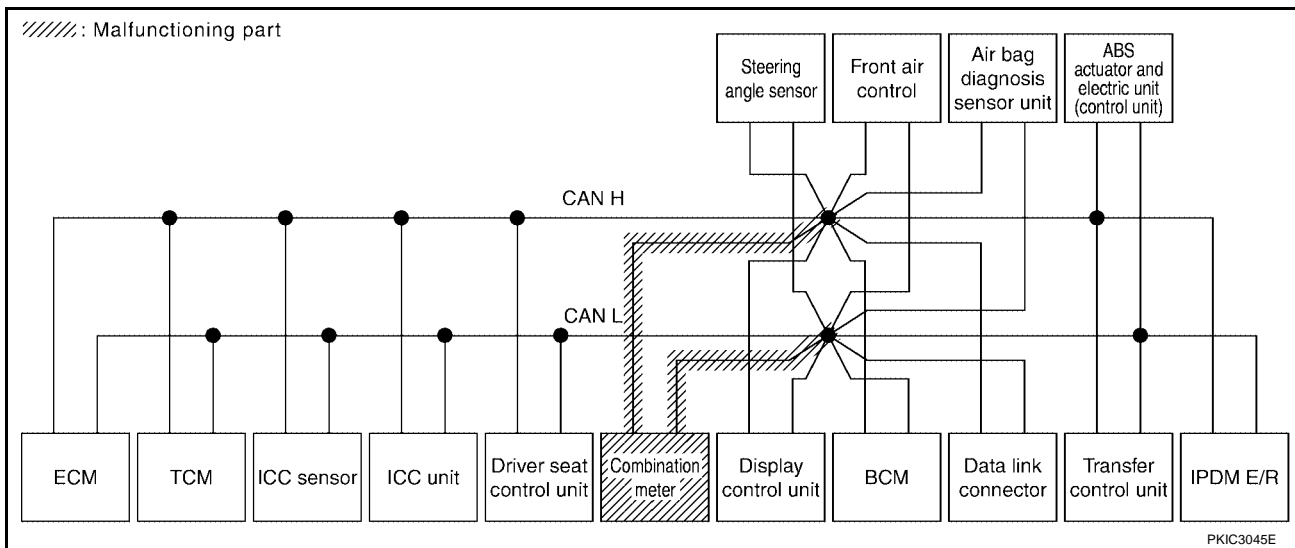
[CAN]

Case 11

Check combination meter circuit. Refer to [LAN-131, "Combination Meter Circuit Inspection"](#) .

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

PKIC3550E



PKIC3045E

CAN SYSTEM (TYPE 4)

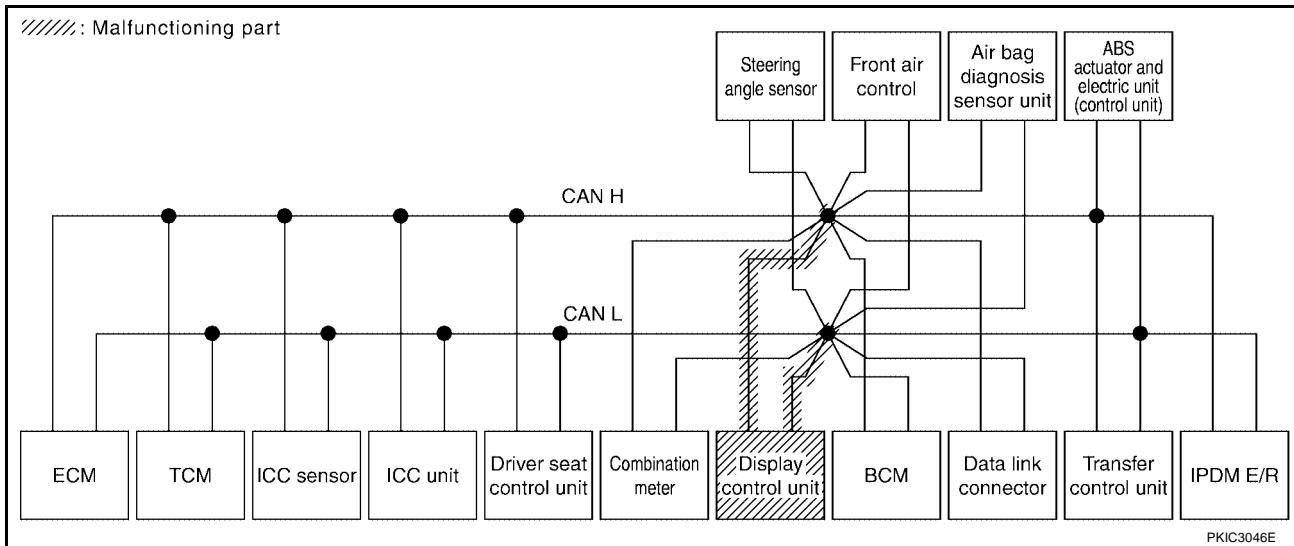
[CAN]

Case 12

Check display control unit circuit. Refer to [LAN-131, "Display Control Unit Circuit Inspection"](#).

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

PKIC3551E



PKIC3046E

CAN SYSTEM (TYPE 4)

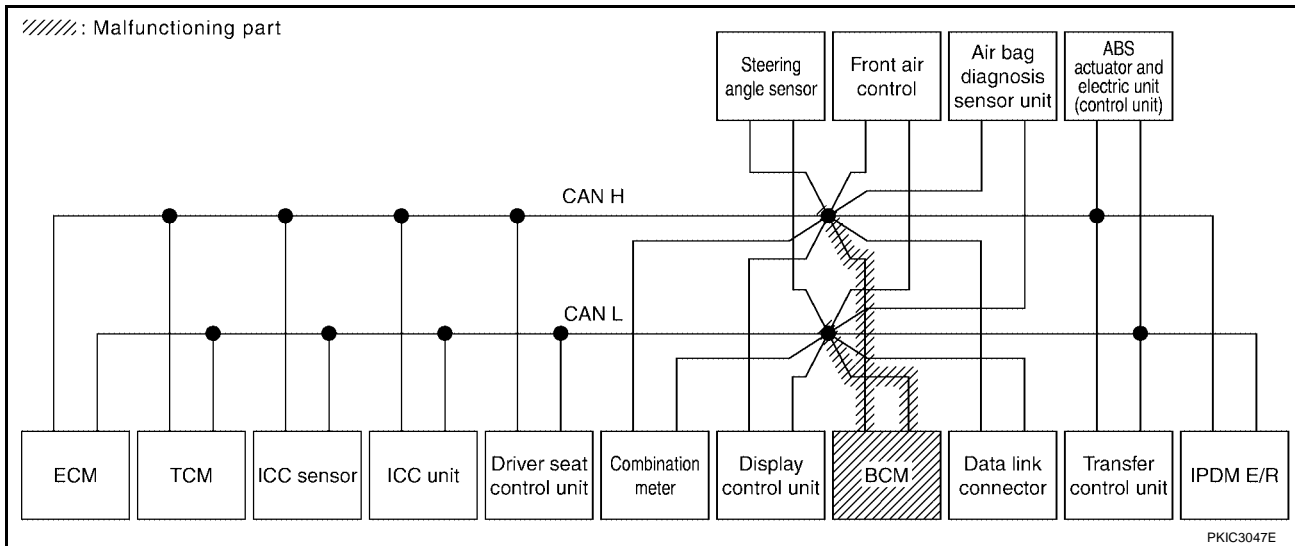
[CAN]

Case 13

Check BCM circuit. Refer to [LAN-132. "BCM Circuit Inspection"](#) .

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

PKIC3552E



PKIC3047E

CAN SYSTEM (TYPE 4)

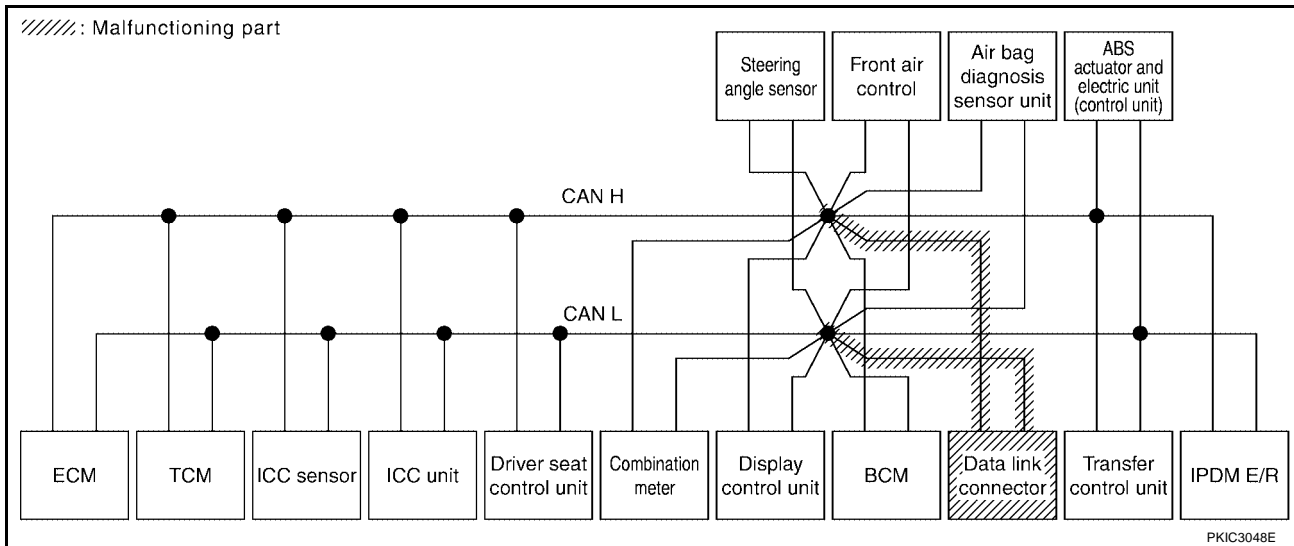
[CAN]

Case 14

Check data link connector circuit. Refer to [LAN-132. "Data Link Connector Circuit Inspection"](#) .

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

PKIC353E



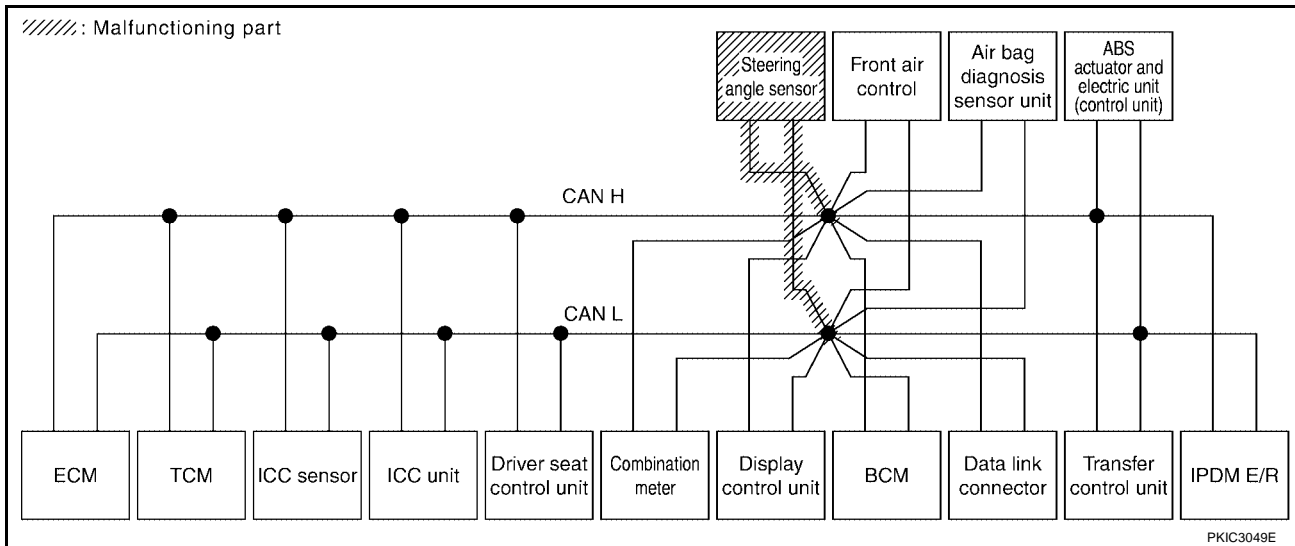
PKIC3048E

Case 15

Check steering angle sensor circuit. Refer to [LAN-133, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC3554E



PKIC3049E

CAN SYSTEM (TYPE 4)

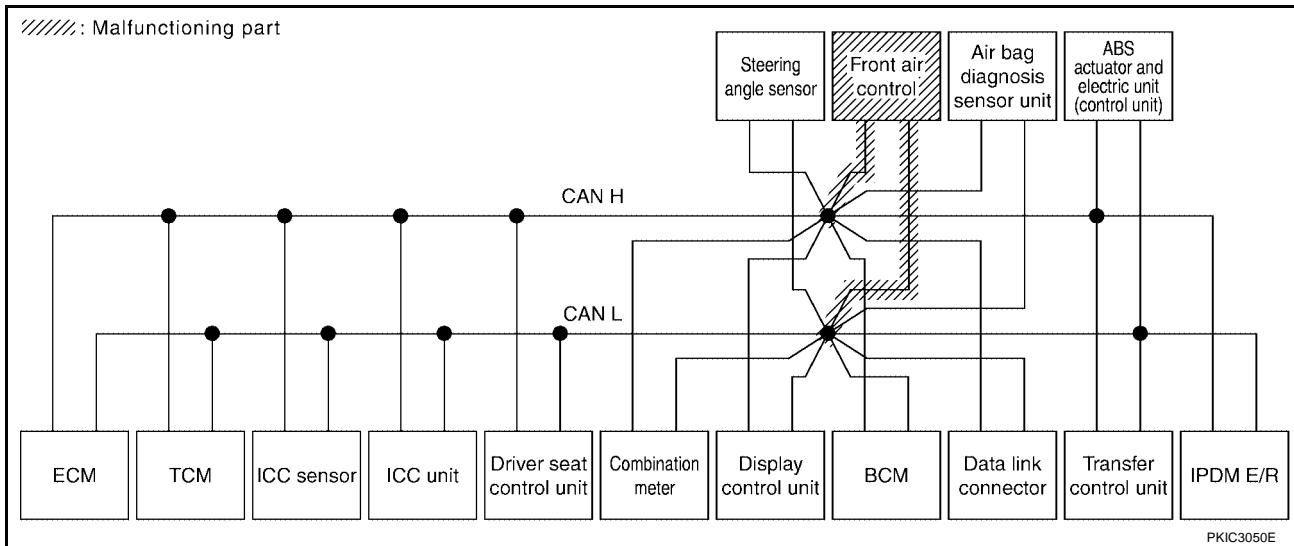
[CAN]

Case 16

Check front air control circuit. Refer to [LAN-133, "Front Air Control Circuit Inspection"](#) .

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

PKIC3555E



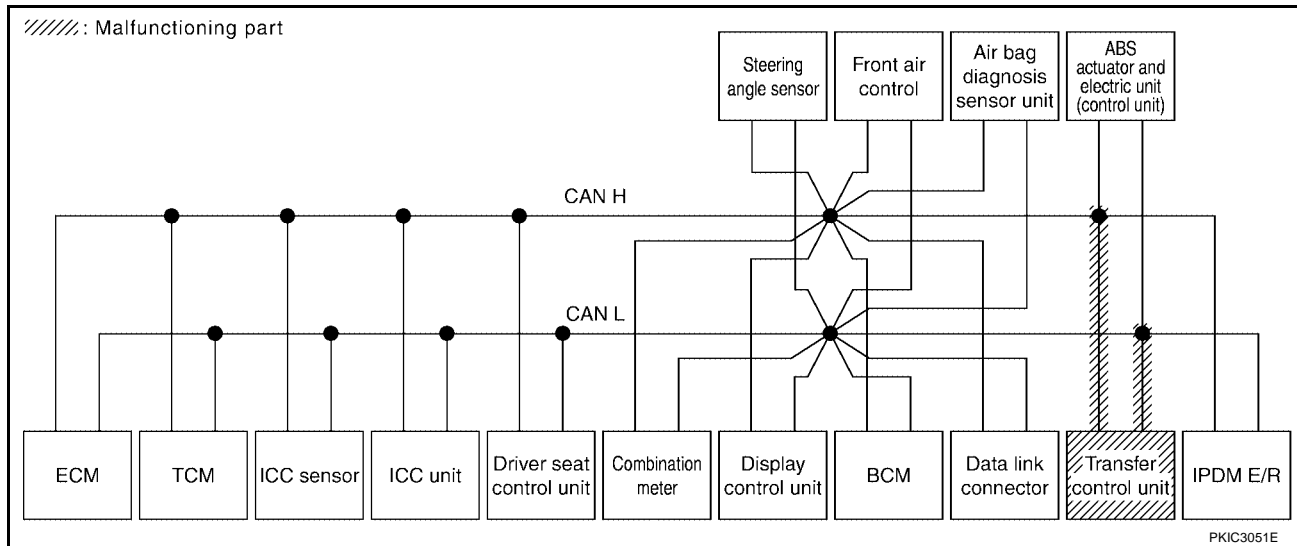
PKIC3050E

Case 17

Check transfer control unit circuit. Refer to [LAN-134, "Transfer Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R			
				ECM	TCM	ICC SENSOR	ICC&4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD				VDC/TCS /ABS
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC3556E



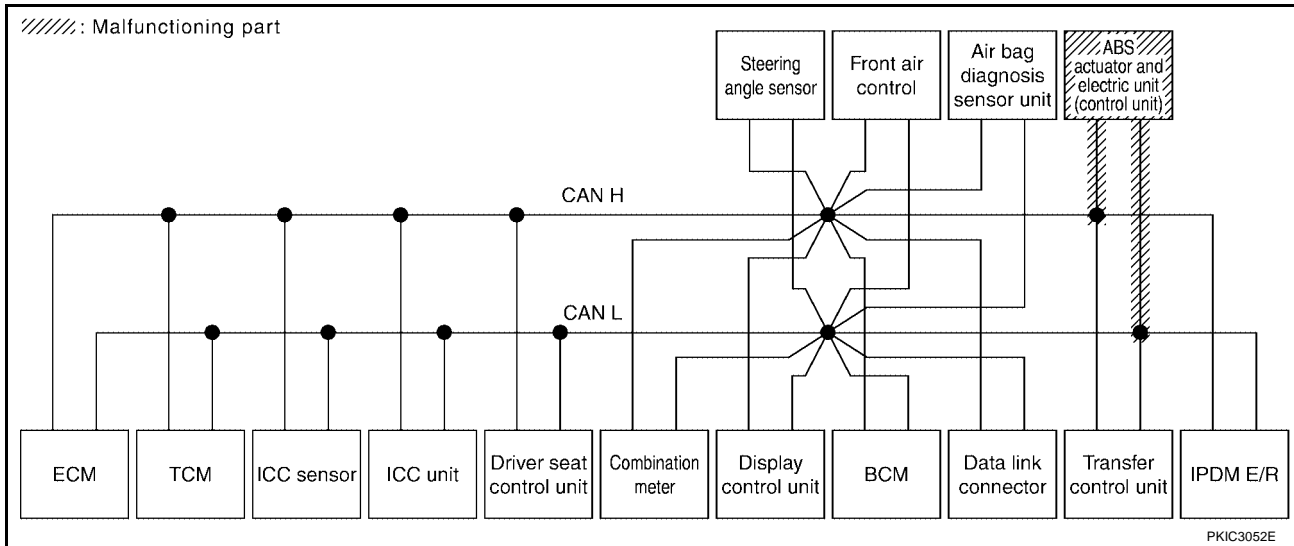
PKIC3051E

Case 18

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-134, "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										IPDM E/R					
				ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD				VDC/TCS /ABS		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
HVAC	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	✓	—	—	—
ALL MODE AWD/4WD	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	UNKWN	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	✓	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC357E



CAN SYSTEM (TYPE 4)

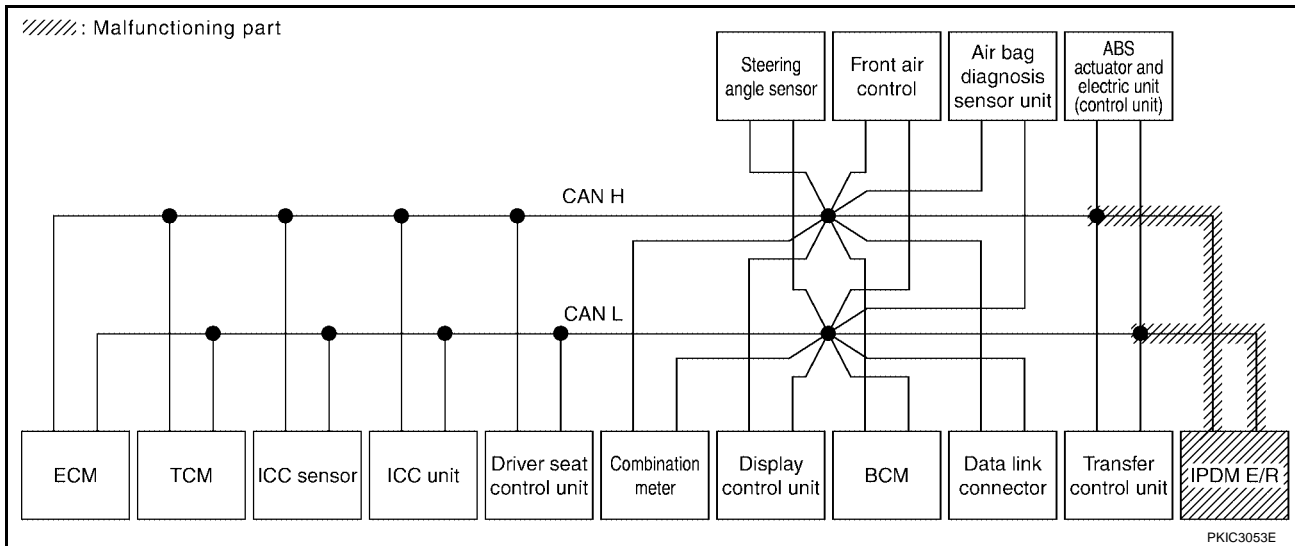
[CAN]

Case 19

Check IPDM E/R circuit. Refer to [LAN-135, "IPDM E/R Circuit Inspection"](#) .

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

PKIC3558E



PKIC3053E

CAN SYSTEM (TYPE 4)

[CAN]

Case 20

Check CAN communication circuit. Refer to [LAN-135, "CAN Communication Circuit Inspection"](#) .

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

PKIC3559E

Case 21

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-137, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC3560E

CAN SYSTEM (TYPE 4)

[CAN]

Case 22

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-137, "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	ICC SENSOR	ICC/4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS			IPDM E/R
ENGINE	–	–	UNKWN	–	UNKWN	–	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	–	NG	UNKWN	–	–	–	–	–	–	–	–	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
ICC	–	NG	UNKWN	UNKWN	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
AUTO DRIVE POS.	No indication	–	–	–	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
Display control unit	–	NG	UNKWN	UNKWN	–	–	–	UNKWN	–	UNKWN	–	UNKWN	–	–	UNKWN	–	–
BCM	No indication	NG	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
HVAC	No indication	–	UNKWN	UNKWN	–	–	–	–	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–
ALL MODE AWD/4WD	No indication	–	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)	–

PKIC3561E

TROUBLE DIAGNOSIS FOR SYSTEM

PFP:00000

Inspection Between TCM and ICC Sensor Circuit

UKS004TB

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 F14
 - Harness connector E5

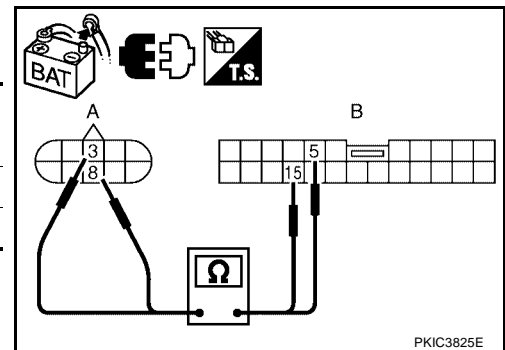
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector and harness connector F14.
2. Check continuity between A/T assembly harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
F9	3	F14	5	Yes
	8		15	Yes



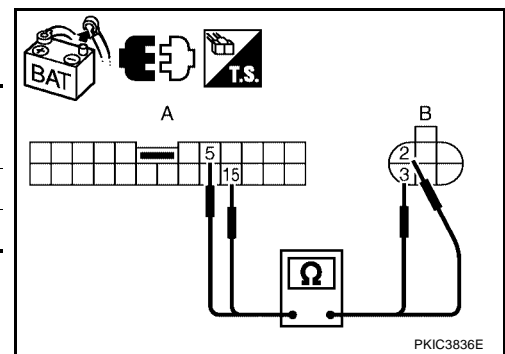
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E5	5	E42	2	Yes
	15		3	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 TCM and Driver Seat Control Unit Circuit

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
 - Harness connector F14
 - Harness connector E5
 - Harness connector E34
 - Harness connector B40

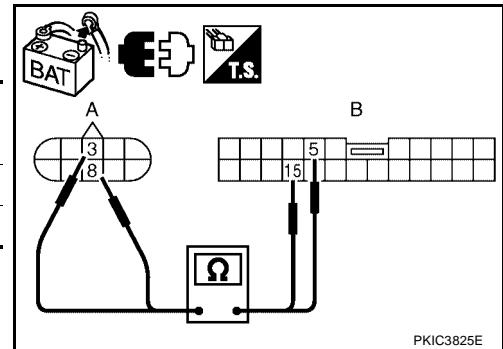
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector and harness connector F14.
2. Check continuity between A/T assembly harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
F9	3	F14	5	Yes
	8		15	Yes



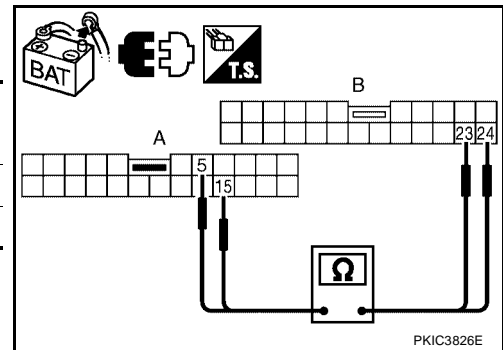
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector E34.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E5	5	E34	24	Yes
	15		23	Yes



OK or NG

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

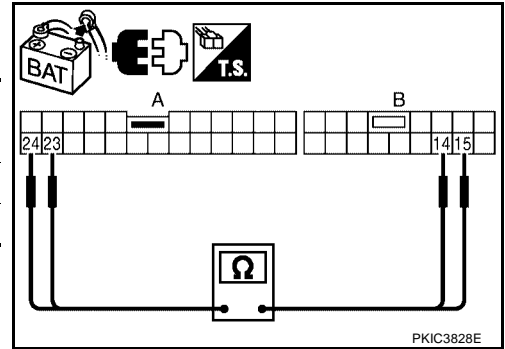
4. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B37.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B40	24	B37	15	Yes
	23		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 ICC Sensor and ICC Unit Circuit

UKS004TD

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 E34
 - Harness connector B40

OK or NG

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

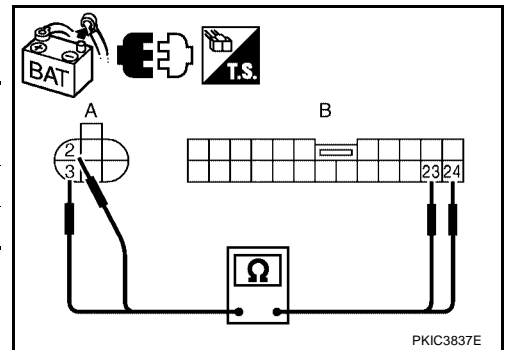
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC sensor connector and harness connector E34.
2. Check continuity between ICC sensor harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E42	2	E34	24	Yes
	3		23	Yes

OK or NG

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



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

LAN

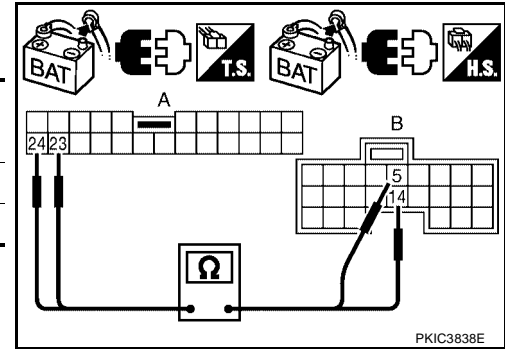
3. CHECK HARNESS FOR OPEN CIRCUIT

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B40	24	B13	14	Yes
	23		5	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 ICC Unit and Driver Seat Control Unit Circuit

UKS004TE

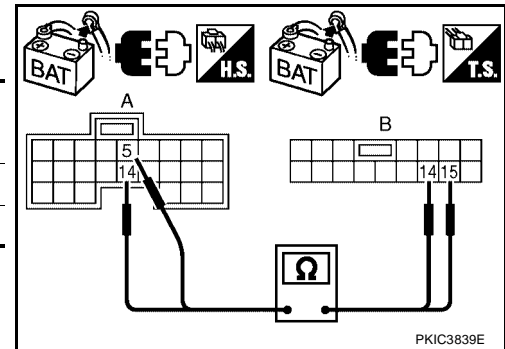
1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ICC unit connector and harness connector B37.
4. Check continuity between ICC unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B13	14	B37	15	Yes
	5		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 Driver Seat Control Unit and Data Link Connector Circuit

UKS004TG

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 B69
 - Harness connector M40

OK or NG

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

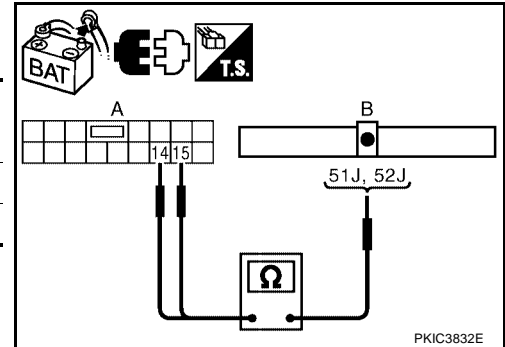
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B37 and harness connector B69.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B37	15	B69	51J	Yes
	14		52J	Yes

OK or NG

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



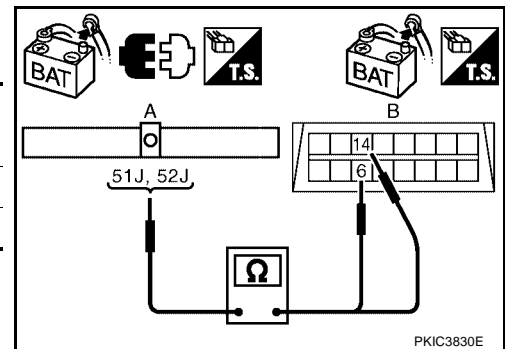
3. CHECK HARNESS FOR OPEN CIRCUIT

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M40	51J	M22	6	Yes
	52J		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 ABS Actuator and Electric Unit (Control Unit) Circuit

UKS004TH

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 M31
 - Harness connector E152

OK or NG

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

A
B
C
D
E
F
G
H
I
J

LAN

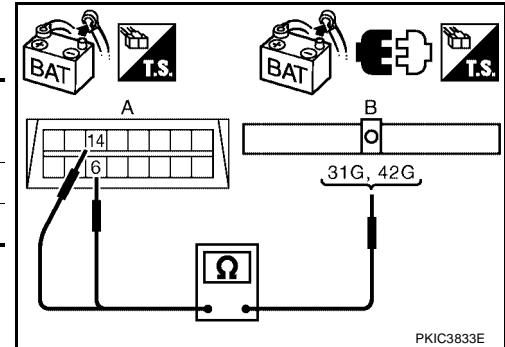
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M31.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M22	6	M31	31G	Yes
	14		42G	Yes

OK or NG

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



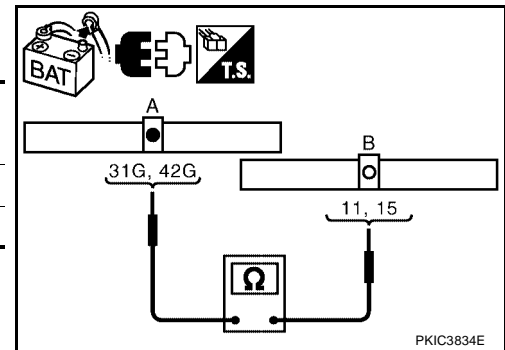
3. CHECK HARNESS FOR OPEN CIRCUIT

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E152	31G	E125	11	Yes
	42G		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

UKS0047I

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).
 - ECM connector
 - Harness connector E5
 - Harness connector F14

OK or NG

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

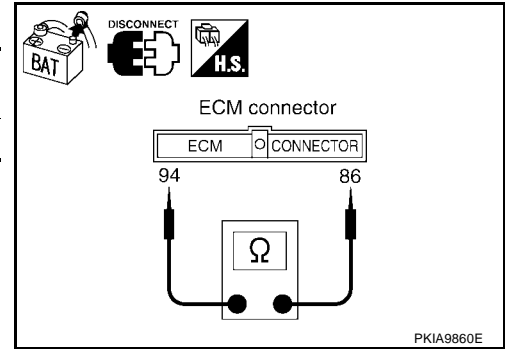
2. CHECK HARNESS FOR OPEN CIRCUIT

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

ECM connector	Terminal		Resistance (Approx.)
E16	94	86	108 – 132 Ω

OK or NG

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



UKS004TJ

TCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

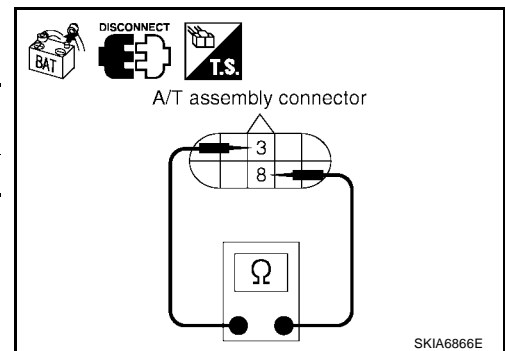
2. CHECK HARNESS FOR OPEN CIRCUIT

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

A/T assembly connector	Terminal		Resistance (Approx.)
F9	3	8	54 – 66 Ω

OK or NG

- OK >> Replace control valve with TCM.
- NG >> Repair harness between A/T assembly and harness connector F14.



UKS004TX

ICC Sensor Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

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

LAN

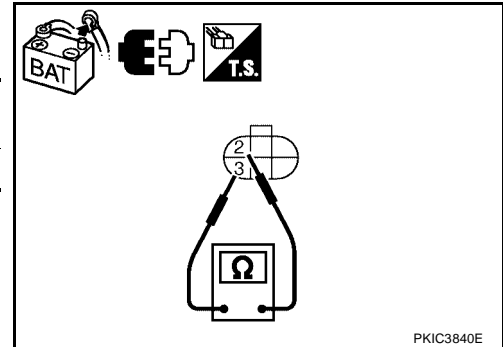
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC sensor connector.
2. Check resistance between ICC sensor harness connector terminals.

ICC sensor connector	Terminal		Resistance (Approx.)
	2	3	
E42	2	3	54 – 66 Ω

OK or NG

- OK >> Replace ICC sensor.
- NG >> Repair harness between ICC sensor and harness connector E34.



PKIC3840E

UKS004TY

ICC Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

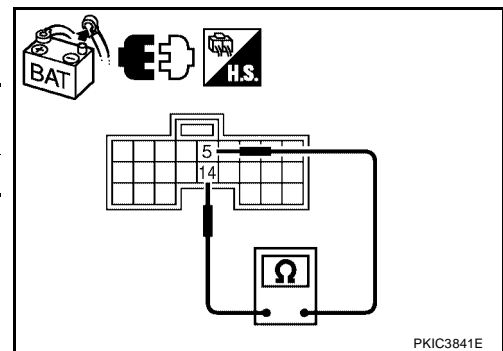
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC unit connector.
2. Check resistance between ICC unit harness connector terminals.

ICC unit connector	Terminal		Resistance (Approx.)
	14	5	
B13	14	5	54 – 66 Ω

OK or NG

- OK >> Replace ICC unit.
- NG >> Repair harness between ICC unit and harness connector B34.



PKIC3841E

UKS004TL

Driver Seat Control Unit Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
 - Driver seat control unit connector
 - Harness connector P1
 - Harness connector B37

OK or NG

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

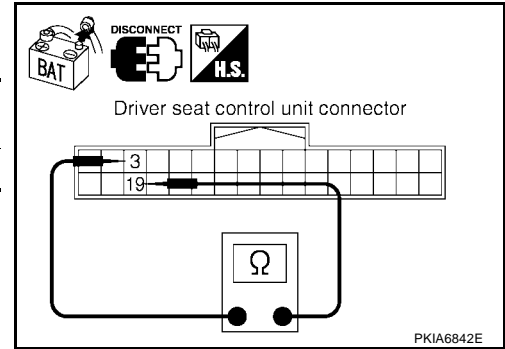
2. CHECK HARNESS FOR OPEN CIRCUIT

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.)
P2	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 B69.



UKS004TM

Combination Meter Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

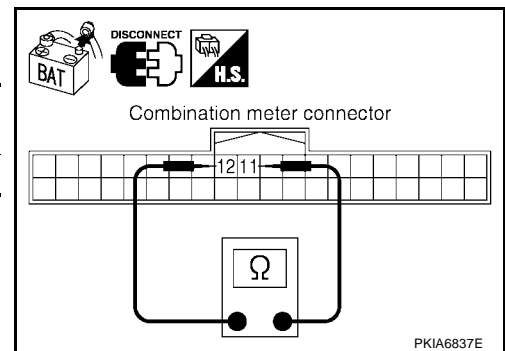
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect combination meter connector.
2. Check resistance between combination meter harness connector terminals.

Combination meter connector	Terminal		Resistance (Approx.)
M24	11	12	54 – 66 Ω

OK or NG

- OK >> Replace combination meter.
 NG >> Repair harness between combination meter and data link connector.



UKS004TN

Display Control Unit Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of 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.

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

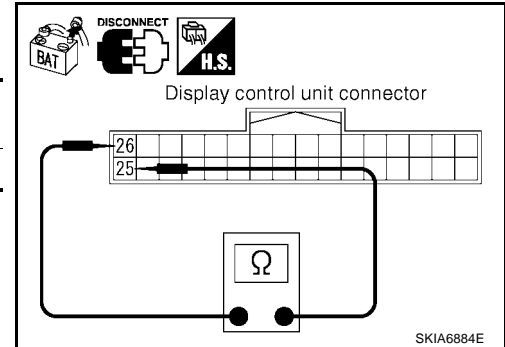
2. CHECK HARNESS FOR OPEN CIRCUIT

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

Display control unit connector	Terminal		Resistance (Approx.)
	25	26	
M95	25	26	54 – 66 Ω

OK or NG

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



UKS004TO

BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

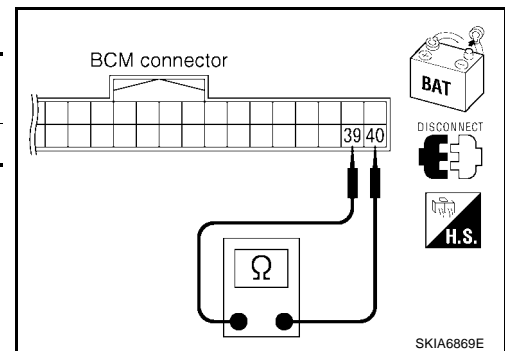
2. CHECK HARNESS FOR OPEN CIRCUIT

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

BCM connector	Terminal		Resistance (Approx.)
	39	40	
M18	39	40	54 – 66 Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-20, "BCM"](#) .
 NG >> Repair harness between BCM and data link connector.



UKS004TP

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

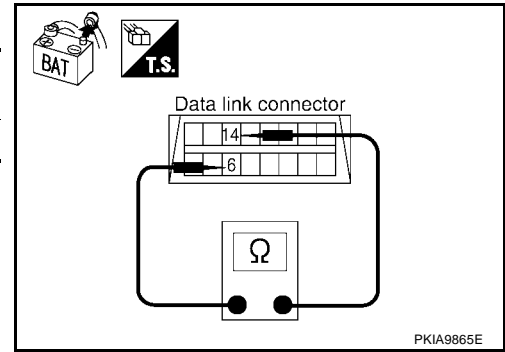
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M22	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 combination meter.



UKS004TQ

Steering Angle Sensor Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

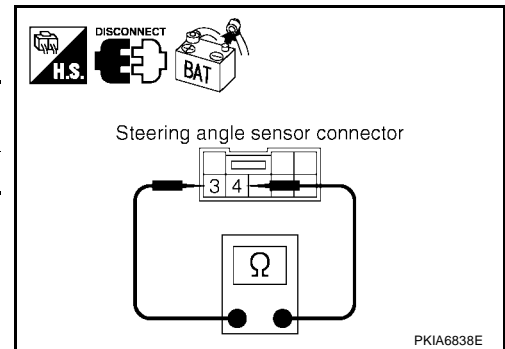
2. CHECK HARNESS FOR OPEN CIRCUIT

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

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	3	4	54 – 66 Ω

OK or NG

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



UKS004TR

Front Air Control Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

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

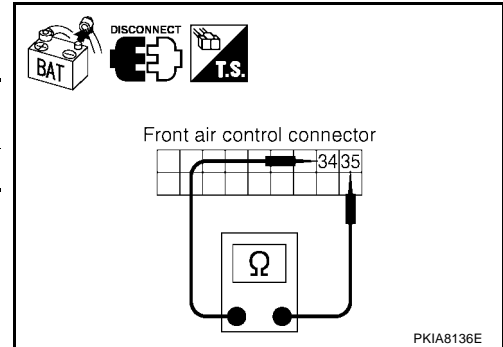
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect front air control connector.
2. Check resistance between front air control harness connector terminals.

Front air control connector	Terminal		Resistance (Approx.)
	34	35	
M50	34	35	54 – 66 Ω

OK or NG

- OK >> Replace front air control.
 NG >> Repair harness between front air control and data link connector.



UKS004TS

Transfer Control Unit Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check terminals and connector of transfer 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.

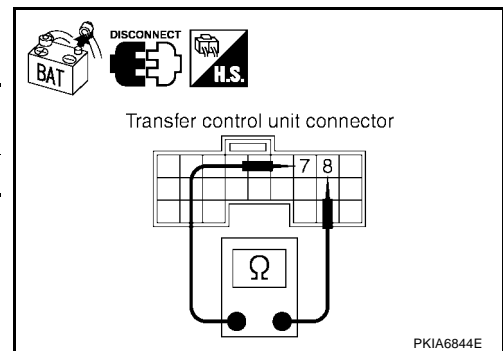
2. CHECK HARNESS FOR OPEN CIRCUIT

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

Transfer control unit connector	Terminal		Resistance (Approx.)
	7	8	
E142	7	8	54 – 66 Ω

OK or NG

- OK >> Replace transfer control unit.
 NG >> Repair harness between transfer control unit and harness connector E152.



UKS004TT

ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

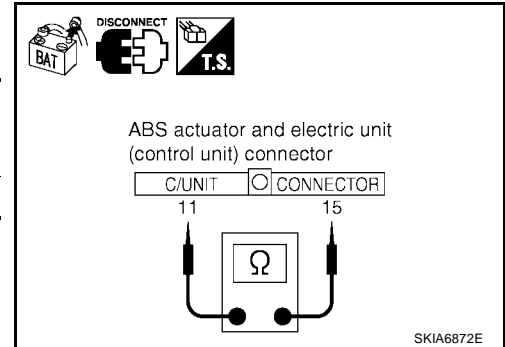
2. CHECK HARNESS FOR OPEN CIRCUIT

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

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E125	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 harness connector E152.



UKS004TU

IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

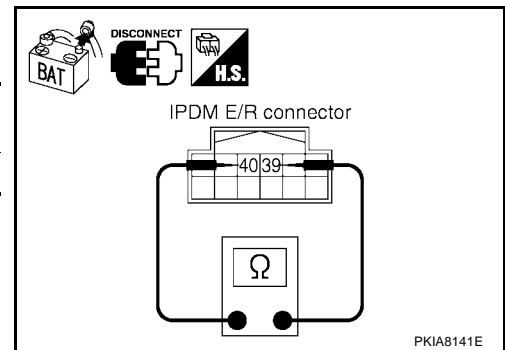
2. CHECK HARNESS FOR OPEN CIRCUIT

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

IPDM E/R connector	Terminal		Resistance (Approx.)
E122	39	40	108 – 132 Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R and harness connector E152.



UKS004TV

CAN Communication Circuit Inspection

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.

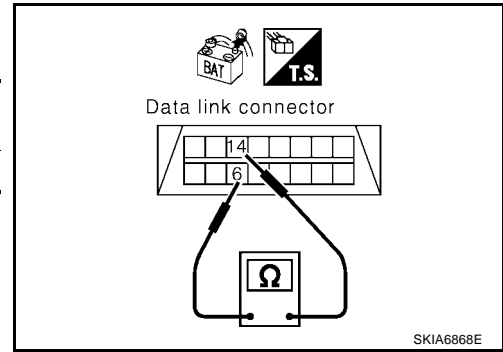
2. CHECK HARNESS FOR SHORT CIRCUIT

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

Data link connector	Terminal		Continuity
M22	6	14	No

OK or NG

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



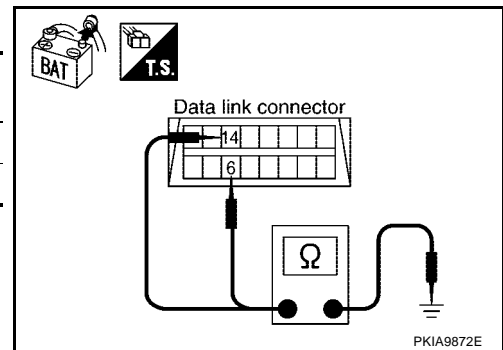
3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

Data link connector	Terminal		Continuity
M22	6	Ground	No
	14	Ground	No

OK or NG

- OK >> GO TO 4.
- NG >> ● Repair harness.
 - Change 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.

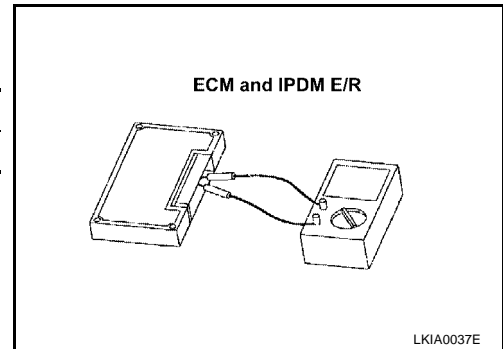
Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
39	40	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.

OK or NG

- OK >> GO TO 6.
- NG >> Refer to [LAN-14, "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. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.

Inspection results

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

Not reproduced>>Replace removed unit.

IPDM E/R Ignition Relay Circuit Inspection

UKS004TW

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

- IPDM E/R power supply circuit. Refer to [PG-28, "IPDM E/R Power/Ground Circuit Inspection"](#) .
- Ignition power supply circuit. Refer to [PG-13, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#) .

A

B

C

D

E

F

G

H

I

J

LAN

L

M

