

SECTION **LAN**
LAN SYSTEM

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PRECAUTIONS

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

AKS00FCW

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

AKS0058H

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-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .

Precautions For Trouble Diagnosis CAN SYSTEM

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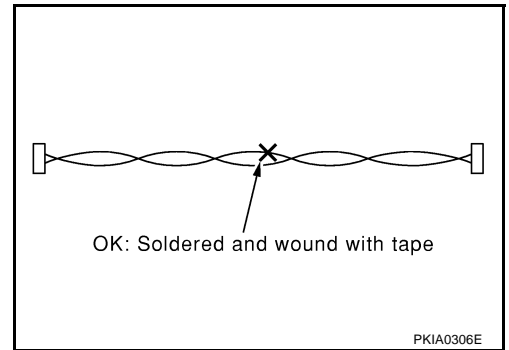
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

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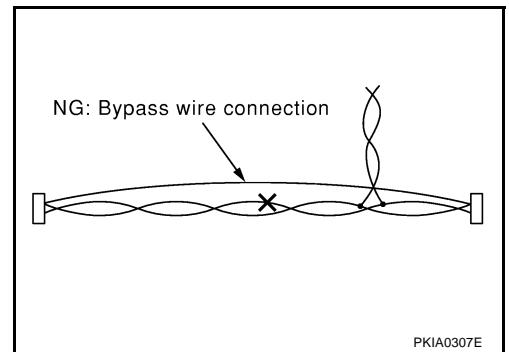
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Precautions For Harness Repair CAN SYSTEM

- 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

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When Displaying CAN Communication System Errors

WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

AKS00CBN

- 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.

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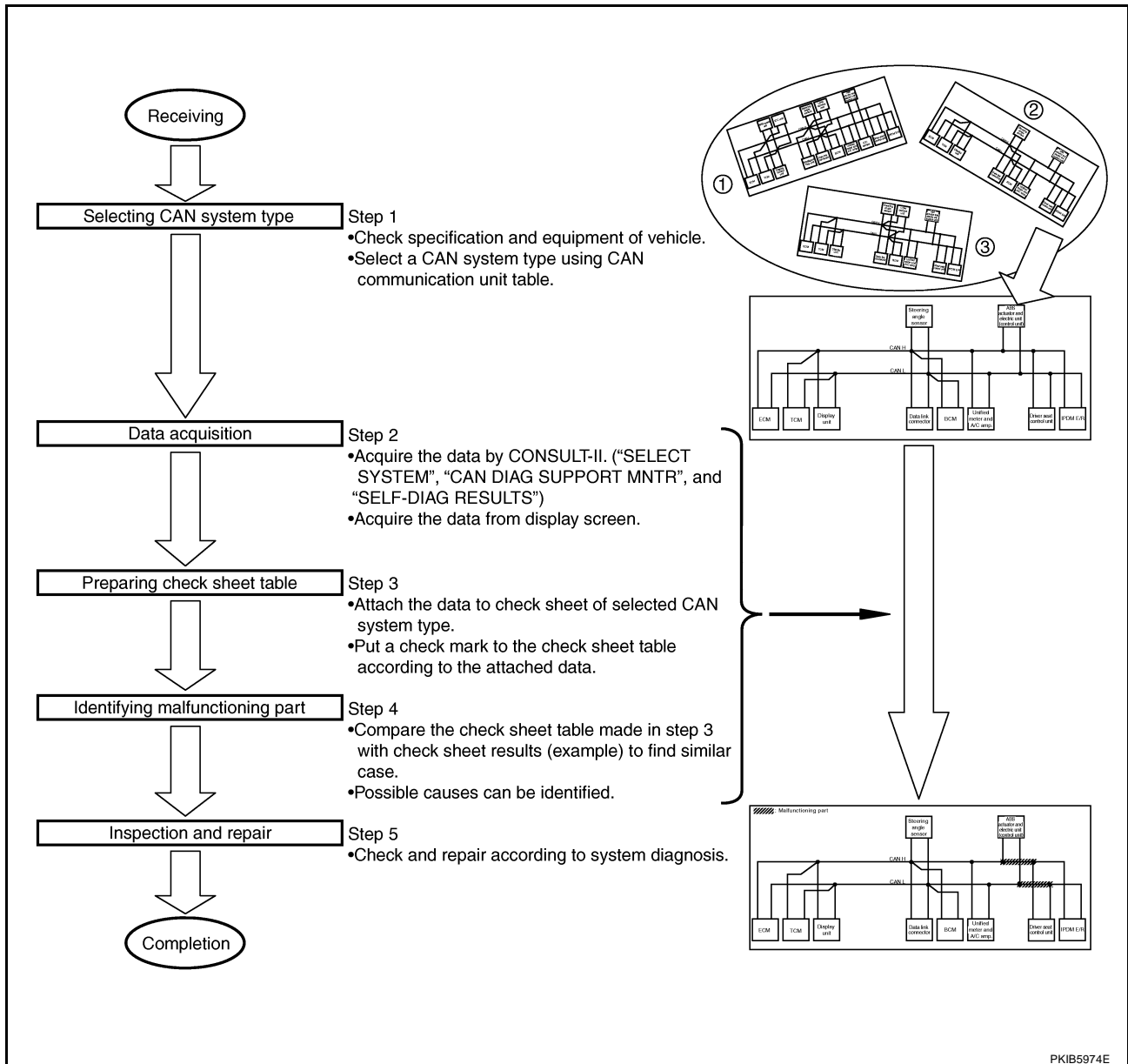
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TROUBLE DIAGNOSIS FLOW CHART

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



- Step 1: Refer to [LAN-9, "SELECTING CAN SYSTEM TYPE \(HOW TO USE SPECIFICATION TABLE\)"](#) .
- Step 2: Refer to [LAN-10, "ACQUISITION OF DATA BY CONSULT-II"](#) .
- Step 3: Refer to [LAN-11, "HOW TO USE CHECK SHEET TABLE"](#) .
- Step 4: Refer to [LAN-12, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- Step 5: Check and repair according to system diagnosis.

TROUBLE DIAGNOSES WORK FLOW

[CAN]

AKS00CBO

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.

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(Example) Wagon/2WD/VQ35DE/AT/VDC/Without navigation system/Without ICC system/Without Intelligent Key system/
Without lane departure warning system/With automatic drive positioner

CAN Communication Unit

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

Body type	Wagon									
Axle	2WD					AWD				
Engine	VQ35DE					VQ35DE/VK45DE				
Transmission	A/T									
Brake control	VDC									
Navigation system				x	x				x	x
ICC system				x	x				x	x
Intelligent Key system				x	x				x	x
Lane departure warning system			x		x			x		x
Automatic drive positioner		x	x	x	x		x	x	x	x
CAN system type	9	1	2	3	4	10	5	6	7	8
CAN system trouble diagnosis	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX

Check basic specifications of the vehicle.

- ➔ Select "x" if it is model with navigation system.
- ➔ Select "x" if it is model with ICC system.
- ➔ Select "x" if it is model with Intelligent Key system.
- ➔ Select "x" if it is model with lane departure warning.
- ➔ Select "x" if it is model with automatic drive positioner.

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

x : Applicable

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

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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. (Transfer the data from the display screen of the vehicle to the CAN diagnosis monitor check sheet. For display unit: Refer to [AV-85, "CAN Communication Line Inspection"](#) . For display control unit: Refer to [AV-155, "CAN Communication Line Check"](#) .)

Copy "SELECT SYSTEM" screen of CONSULT-II.

SELECT SYSTEM	
ENGINE	
A/T	
ABS	
AIR BAG	
BCM	
METER A/C AMP	
BACK	LIGHT COPY

AV section

Copy CAN diagnosis monitor check sheet of CAN communication check.

Diagnosis item	Screen display		Diagnosis item	Screen display	
CANCOMM	OK	NG	CAN6	OK	UNKWN
CAN1	OK	UNKWN	CAN6	OK	UNKWN
CAN2	OK	UNKWN	CAN7	OK	UNKWN
CAN3	OK	UNKWN	CAN8	OK	UNKWN
CAN4	OK	UNKWN	CAN9	OK	UNKWN

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR										SELF DIAG RESULTS	
	Initial diagnosis	Transmit diagnosis	ECM	TCM	IPD/E/R	BCM/SEC	STRG	METER M&A	VECTORS/ABS	IPDM E/R	CAN COMM CIRCUIT (U1001)	CAN COMM CIRCUIT (E1000)
ENGINE	—	NG	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—
A/T	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—
Display unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—
ECM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—

Symptoms :

Attach copy of SELECT SYSTEM

Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CANCOMM	Initial diagnosis	CAN6	METERM&A
CAN1	Transmit diagnosis	CAN6	—
CAN2	BCM/SEC	CAN7	IPDM E/R
CAN3	ECM	CAN8	—
CAN4	—	CAN9	—

Attach copy of display unit CAN DIAG MONITOR check sheet

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

SELF-DIAG RESULTS	
DTC RESULTS	TIME
CAN COMM CIRCUIT [U1001]	0
ERASE	PRINT
MODE	BACK LIGHT COPY

Attach copy of ENGINE SELF-DIAG RESULTS

Attach copy of A/T SELF-DIAG RESULTS

Attach copy of BCM SELF-DIAG RESULTS

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

Attach copy of ABS SELF-DIAG RESULTS

Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS

Attach copy of IPDM E/R SELF-DIAG RESULTS

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

CAN DIAG SUPPORT MNTR	
ENGINE	PRSNTR
INITIAL DIAG	OK
TRANSMIT DIAG	OK
TCM	OK
VDC/TCS/ABS	OK
METERM&A	OK
ICC	UNKWN
BCM/SEC	OK
IPDM E/R	UNKWN
AWD/4WD/e4WD	UNKWN
PRINT	Scroll Down
MODE	BACK LIGHT COPY

Attach copy of ENGINE CAN DIAG SUPPORT MNTR

Attach copy of ABS CAN DIAG SUPPORT MNTR

Attach copy of A/T CAN DIAG SUPPORT MNTR

Attach copy of BCM CAN DIAG SUPPORT MNTR

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

Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR

Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

HOW TO USE CHECK SHEET TABLE

Check sheet table	Use when the initial conditions are reproduced											Use when the initial conditions are not reproduced		
	SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS		
				ECM	TCM	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
Display unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

① Unit that performs CAN communication diagnosis

② SELECT SYSTEM screen

③ Initial diagnosis

④ Transmit diagnosis

⑤ CAN DIAG SUPPORT MNTR

PKIB5977E

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

NOTE:

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

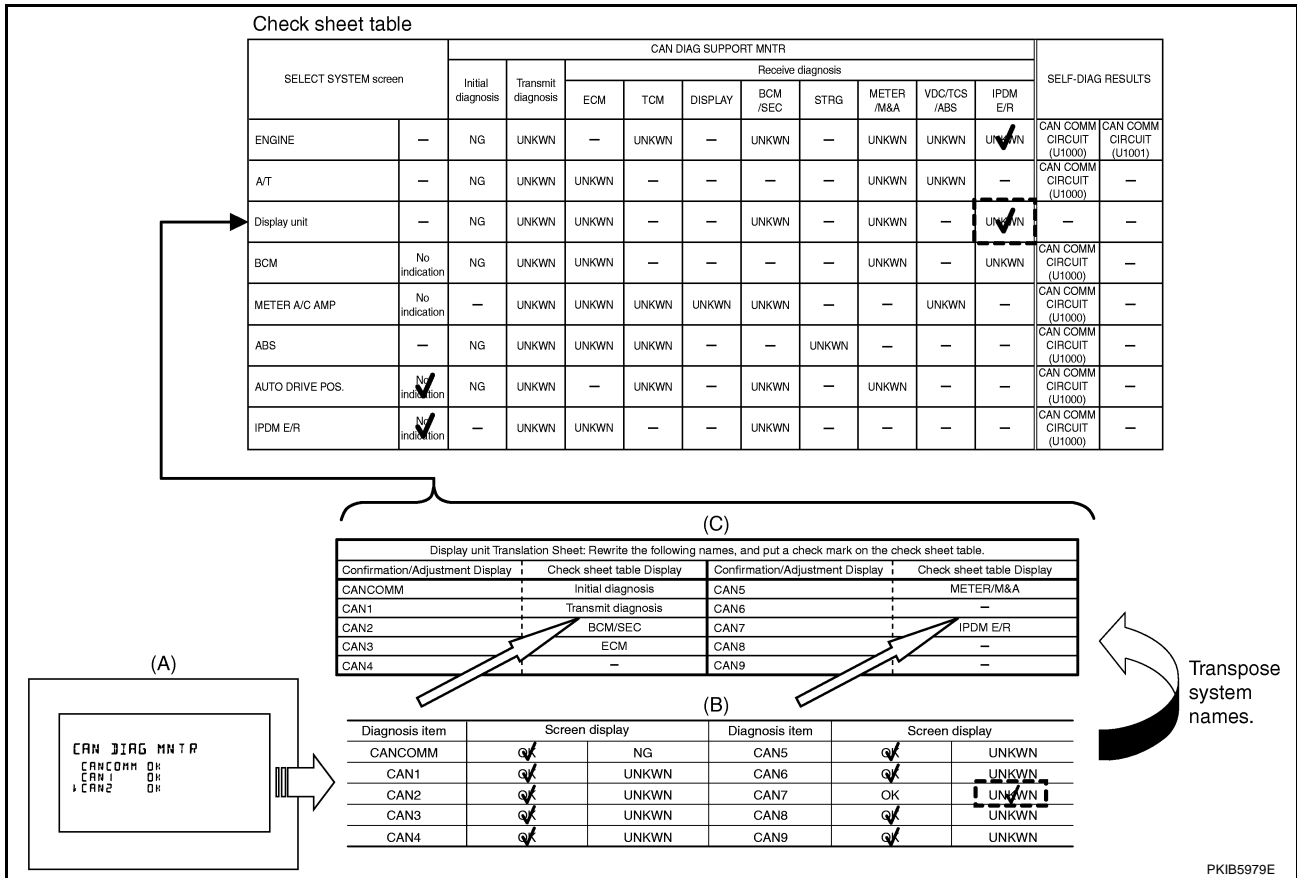
- When the initial conditions are reproduced. Refer to [LAN-12, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- When the initial conditions are not reproduced. Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#) .

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TROUBLE DIAGNOSES WORK FLOW

[CAN]



4. Display unit reads the CAN diagnosis monitor check sheet (B) [AV-85, "CAN Communication Line Inspection"](#) transferred from the display screen (A). The transferred CAN diagnosis monitor check sheet is copied to the Check sheet, and conversed according to the Display unit Translation Sheet. And then put a check mark to the check sheet table.

NOTE:

In the CAN diagnosis monitor check sheet (B), check marks are put to "CAN7". But, in the column of the check sheet table indication in Display unit Translation Sheet (C), "IPDM E/R" is listed only for "CAN7". Therefore, put a check mark to "IPDM E/R" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

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TROUBLE DIAGNOSES WORK FLOW

[CAN]

CAN DIAG SUPPORT MNTR

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

CAN DIAG SUPPORT MNTR

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

Check sheet table

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

CAN DIAG SUPPORT MNTR

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

PKIB5980E

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

NOTE:

- For “BCM”, “UNKWN” is displayed on “IPDM E/R” and “I-KEY”. But put a check mark to “IPDM E/R” because “UNKWN” is listed on the column of reception diagnosis on the check sheet table.
- For “METER A/C AMP”, “UNKWN” is not displayed. Do not put a check to it.
- For “ABS”, “UNKWN” is displayed on “METER/M&A” and “ICC”. But, do not put a check mark to their columns of reception diagnosis of the check sheet table because “UNKWN” is not listed.

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	DISPLAY	BCM /SEC	STRG	METER A/C AMP	VDC/CS ABS	IPDM E/R				
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1001]	CAN COMM CIRCUIT [U1001]
A/T	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT [U1000]	-
Display unit	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	-	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT [U1000]	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT [U1000]	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT [U1000]	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT [U1000]	-

SYSTEM ENGINE

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT [U1001] 1t

SYSTEM A/T

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT [U1000]

SYSTEM BCM

SELF-DIAG RESULTS

DTC RESULTS TIME

NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.

SYSTEM METER A/C AMP

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT [U1000] 0

SYSTEM ABS

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT [U1000] 0

SYSTEM AUTO DRIVE POS.

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT [U1000] PAST

SYSTEM IPDM E/R

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT [U1000] PAST

PKIB5982E

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

NOTE:

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

The arranged results of self-diagnosis

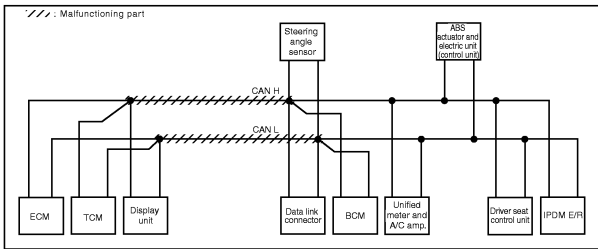
Check sheet table

SELECT SYSTEM screen	Initial diagnosis	Intermitt diagnosis	CAN DIAG SUPPORT MNT'R								SELF-DIAG RESULTS	
			Possible diagnosis									
			ECM	TCM	DISPLAY	BCM SEC	STNG	METER MAX	VOGTES RES	IPDM E/R		
ENGINE	-	NG	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-	UNKNOWN	UNKNOWN	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
AT	-	NG	UNKNOWN	UNKNOWN	-	-	-	-	UNKNOWN	UNKNOWN	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
Display unit	-	NG	UNKNOWN	UNKNOWN	-	-	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-
BCM	No indicator	NG	UNKNOWN	UNKNOWN	-	-	-	-	UNKNOWN	UNKNOWN	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
METER AC/AMP	No indicator	NG	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	-	UNKNOWN	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
ABS	-	NG	UNKNOWN	UNKNOWN	UNKNOWN	-	-	UNKNOWN	-	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
AUTO DRIVE POS.	No indicator	NG	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
IPDM E/R	No indicator	-	UNKNOWN	UNKNOWN	-	-	UNKNOWN	-	-	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓

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

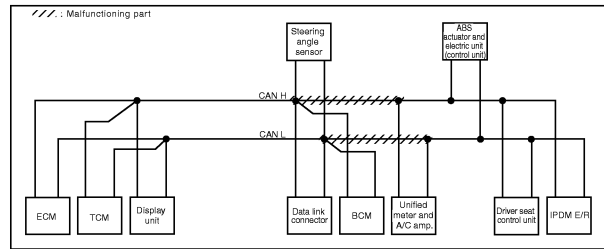
Case 1
Check harness between TCM and data link connector.

SELECT SYSTEM screen	Initial diagnosis	Intermitt diagnosis	CAN DIAG SUPPORT MNT'R								SELF-DIAG RESULTS	
			Possible diagnosis									
			ECM	TCM	DISPLAY	BCM SEC	STNG	METER MAX	VOGTES RES	IPDM E/R		
ENGINE	-	NG	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-	UNKNOWN	UNKNOWN	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
AT	-	NG	UNKNOWN	UNKNOWN	-	-	-	-	UNKNOWN	UNKNOWN	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
Display unit	-	NG	UNKNOWN	UNKNOWN	-	-	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-
BCM	No indicator	NG	UNKNOWN	✓	-	-	-	-	UNKNOWN	UNKNOWN	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
METER AC/AMP	No indicator	-	UNKNOWN	✓	✓	✓	UNKNOWN	-	UNKNOWN	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
ABS	-	NG	UNKNOWN	✓	-	-	UNKNOWN	-	-	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
AUTO DRIVE POS.	No indicator	NG	UNKNOWN	-	✓	-	UNKNOWN	-	UNKNOWN	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
IPDM E/R	No indicator	-	UNKNOWN	✓	-	-	UNKNOWN	-	-	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓



Case 2
Check harness between data link connector and unified meter and A/C amp.

SELECT SYSTEM screen	Initial diagnosis	Intermitt diagnosis	CAN DIAG SUPPORT MNT'R								SELF-DIAG RESULTS	
			Possible diagnosis									
			ECM	TCM	DISPLAY	BCM SEC	STNG	METER MAX	VOGTES RES	IPDM E/R		
ENGINE	-	NG	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-	UNKNOWN	UNKNOWN	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
AT	-	NG	UNKNOWN	UNKNOWN	-	-	-	-	UNKNOWN	UNKNOWN	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
Display unit	-	NG	UNKNOWN	UNKNOWN	-	-	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-
BCM	No indicator	NG	UNKNOWN	UNKNOWN	-	-	-	-	UNKNOWN	UNKNOWN	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
METER AC/AMP	✓	-	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	-	UNKNOWN	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
ABS	-	NG	UNKNOWN	✓	✓	-	UNKNOWN	-	-	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
AUTO DRIVE POS.	✓	NG	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-	UNKNOWN	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓
IPDM E/R	✓	-	UNKNOWN	UNKNOWN	-	-	UNKNOWN	-	-	-	CAN COMM CIRCUI(T U1000) (CAN E/R)	✓



NOTE:

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

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

CAN Diagnostic Support Monitor

AKS00CBP

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ECM

(Example)	CAN DIAG SUPPORT MNTR <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">ENGINE</th></tr> <tr><td></td><td style="text-align: right;">PRSNT</td></tr> <tr><td>INITIAL DIAG</td><td style="text-align: right;">OK</td></tr> <tr><td>TRANSMIT DIAG</td><td style="text-align: right;">OK</td></tr> <tr><td>TCM</td><td style="text-align: right;">OK</td></tr> <tr><td>VDC/TCS/ABS</td><td style="text-align: right;">OK</td></tr> <tr><td>METER/M&A</td><td style="text-align: right;">OK</td></tr> <tr><td>ICC</td><td style="text-align: right;">UNKWN</td></tr> <tr><td>BCM/SEC</td><td style="text-align: right;">OK</td></tr> <tr><td>IPDM E/R</td><td style="text-align: right;">OK</td></tr> <tr><td>AWD/4WD/e4WD</td><td style="text-align: right;">UNKWN</td></tr> <tr><td style="text-align: center;">PRINT</td><td style="text-align: center;">Scroll Down</td></tr> <tr><td>MODE</td><td>BACK</td></tr> <tr><td>LIGHT</td><td>COPY</td></tr> </table>	ENGINE			PRSNT	INITIAL DIAG	OK	TRANSMIT DIAG	OK	TCM	OK	VDC/TCS/ABS	OK	METER/M&A	OK	ICC	UNKWN	BCM/SEC	OK	IPDM E/R	OK	AWD/4WD/e4WD	UNKWN	PRINT	Scroll Down	MODE	BACK	LIGHT	COPY	CAN DIAG SUPPORT MNTR <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">ENGINE</th></tr> <tr><td></td><td style="text-align: right;">PRSNT</td></tr> <tr><td>TRANSMIT DIAG</td><td style="text-align: right;">OK</td></tr> <tr><td>TCM</td><td style="text-align: right;">OK</td></tr> <tr><td>VDC/TCS/ABS</td><td style="text-align: right;">OK</td></tr> <tr><td>METER/M&A</td><td style="text-align: right;">OK</td></tr> <tr><td>ICC</td><td style="text-align: right;">UNKWN</td></tr> <tr><td>BCM/SEC</td><td style="text-align: right;">OK</td></tr> <tr><td>IPDM E/R</td><td style="text-align: right;">OK</td></tr> <tr><td>AWD/4WD/e4WD</td><td style="text-align: right;">UNKWN</td></tr> <tr><td>EPS</td><td style="text-align: right;">UNKWN</td></tr> <tr><td style="text-align: center;">PRINT</td><td style="text-align: center;">Scroll Up</td></tr> <tr><td>MODE</td><td>BACK</td></tr> <tr><td>LIGHT</td><td>COPY</td></tr> </table>	ENGINE			PRSNT	TRANSMIT DIAG	OK	TCM	OK	VDC/TCS/ABS	OK	METER/M&A	OK	ICC	UNKWN	BCM/SEC	OK	IPDM E/R	OK	AWD/4WD/e4WD	UNKWN	EPS	UNKWN	PRINT	Scroll Up	MODE	BACK	LIGHT	COPY
ENGINE																																																										
	PRSNT																																																									
INITIAL DIAG	OK																																																									
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EPS	UNKWN																																																									
PRINT	Scroll Up																																																									
MODE	BACK																																																									
LIGHT	COPY																																																									

SKIB0591E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
ENGINE	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	TCM	Make sure of normal reception from TCM.	OK/UNKWN
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
	ICC	Make sure of normal reception from ICC unit.	OK/UNKWN
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN
	AWD/4WD/e4WD	AWD/4WD/e4WD is not diagnosed.	UNKWN
	EPS	EPS is not diagnosed.	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 TCM

(Example)

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

PKIA9892E

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

Display Results (Present)

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

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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	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	CAN CIRC 4 is not diagnosed.	OK/UNKWN	
	CAN CIRC 5	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN	
	CAN CIRC 6	CAN CIRC 6 is not diagnosed.	OK/UNKWN	
	CAN CIRC 7	Make sure of normal reception from IPDM E/R.	OK/UNKWN	
	CAN CIRC 8	CAN CIRC 8 is not diagnosed.	OK/UNKWN	
CAN CIRC 9	CAN CIRC 9 is not diagnosed.	OK/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.

TROUBLE DIAGNOSES WORK FLOW

[CAN]

DESCRIPTION OF "CAN DIAG MNTR" SCREEN FOR DISPLAY UNIT

(Example)

```

CAN DIAG MNTR
  CANCOMM OK
  CAN1    OK
  CAN2    OK
    
```

SKIB2447E

Unit name	Diagnosis item	Description	"CAN DIAG MNTR" screen
Display unit	CANCOMM	Make sure that microcomputer in ECU works normally.	OK/NG
	CAN1	Make sure of normal transmission.	OK/UNKWN
	CAN2	Make sure of normal reception from BCM.	OK/UNKWN
	CAN3	Make sure of normal reception from ECM.	OK/UNKWN
	CAN4	CAN CIRC 4 is not diagnosed.	OK/UNKWN
	CAN5	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
	CAN6	CAN CIRC 6 is not diagnosed.	OK/UNKWN
	CAN7	Make sure of normal reception from IPDM E/R.	OK/UNKWN
	CAN8	CAN CIRC 8 is not diagnosed.	OK/UNKWN
CAN9	CAN CIRC 9 is not diagnosed.	OK/UNKWN	

Display Results (Present)

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

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TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

(Example)

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

PKIB5966E

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

Display Results (Present)

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

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="2" style="text-align: center;">ICC</td></tr> <tr><td></td><td style="text-align: center;">PRSNT</td></tr> <tr><td>INITIAL DIAG</td><td style="text-align: center;">OK</td></tr> <tr><td>TRANSMIT DIAG</td><td style="text-align: center;">OK</td></tr> <tr><td>ECM</td><td style="text-align: center;">OK</td></tr> <tr><td>VDC/TCS/ABS</td><td style="text-align: center;">OK</td></tr> <tr><td>TCM</td><td style="text-align: center;">OK</td></tr> <tr><td>METER/M&A</td><td style="text-align: center;">UNKWN</td></tr> <tr><td>LANE KEEP</td><td style="text-align: center;">UNKWN</td></tr> <tr><td>ECM(I)</td><td style="text-align: center;">OK</td></tr> <tr><td>ICC SENSOR</td><td style="text-align: center;">OK</td></tr> <tr><td>PRINT</td><td style="text-align: center;">Scroll Down</td></tr> <tr><td>MODE</td><td>BACK LIGHT 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="2" style="text-align: center;">ICC</td></tr> <tr><td></td><td style="text-align: center;">PRSNT</td></tr> <tr><td>LANE KEEP</td><td style="text-align: center;">UNKWN</td></tr> <tr><td>ECM(I)</td><td style="text-align: center;">OK</td></tr> <tr><td>ICC SENSOR</td><td style="text-align: center;">OK</td></tr> <tr><td>STRG</td><td style="text-align: center;">UNKWN</td></tr> <tr><td>METER/M&A(I)</td><td style="text-align: center;">OK</td></tr> <tr><td>ERROR(I)</td><td style="text-align: center;">OK</td></tr> <tr><td>LANE DETECTOR</td><td style="text-align: center;">UNKWN</td></tr> <tr><td>TCM(I)</td><td style="text-align: center;">UNKWN</td></tr> <tr><td>BCM/SEC</td><td style="text-align: center;">UNKWN</td></tr> <tr><td>PRINT</td><td style="text-align: center;">Scroll Up</td></tr> <tr><td>MODE</td><td>BACK LIGHT 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	UNKWN	PRINT	Scroll Up	MODE
ICC																																																					
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BCM/SEC	UNKWN																																																				
PRINT	Scroll Up																																																				
MODE	BACK LIGHT COPY																																																				

PKIB5985E

“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)	Make sure of normal reception from ECM (as a laser radar sensor). (Not available for CAN system diagnosis.)	OK/UNKWN
	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)	Make sure that the initial diagnosis and transmit diagnosis of laser radar sensor work normally. (Not available for CAN system diagnosis.)	OK/UNKWN
	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 INTELLIGENT KEY UNIT

(Example)

CAN DIAG SUPPORT MNTR			
INTELLIGENT KEY			
	PRSNT	PAST	
TRANSMIT DIAG	OK	OK	
ECM	OK	OK	
METER/M&A	OK	OK	
BCM/SEC	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

SKIB2359E

“SELECT SYSTEM” screen	“CAN DIAG SUP-PORT MNTR” screen	Description	Present	Past
INTELLIGENT KEY	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/–	OK/0/1~39/–
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/–	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/–	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/–	

Display Results (Present)

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

Display Results (Past)

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR BCM

(Example)

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

SKIB0593E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
BCM	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
	I-KEY	Make sure of normal reception from Intelligent Key unit. (Not available for CAN system diagnosis.)	OK

Display Results (Present)

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

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TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

(Example)

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

PKIB5965E

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

Display Results (Present)

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

Display Results (Past)

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

(Example)

CAN DIAG SUPPORT MNTR				CAN DIAG SUPPORT MNTR			
METER A/C AMP				METER A/C AMP			
	PRSNT	PAST			PRSNT	PAST	
TRANSMIT DIAG	OK	OK		IPDM E/R	-	-	
ECM	OK	OK		DISPLAY	OK	OK	
TCM	OK	OK		I-KEY	-	-	
BCM/SEC	OK	OK		EPS	-	-	
VDC/TCS/ABS	OK	OK		AWD/4WD	-	-	
IPDM E/R	-	-		e4WD	-	-	
DISPLAY	OK	OK		ICC	-	-	
I-KEY	-	-		LANE KEEP	-	-	
EPS	-	-		TIRE-P	OK	OK	
PRINT			Scroll Down	PRINT		Scroll Up	
MODE	BACK	LIGHT	COPY	MODE	BACK	LIGHT	COPY

PKIB5986E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past	
METER A/C AMP	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1~39/-	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-		
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-		
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-		
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-		
	IPDM E/R	IPDM E/R is not diagnosed.	-		
	DISPLAY		Make sure of normal reception from display control unit.		OK/UNKWN/-
			Make sure of normal reception from display unit.		OK/UNKWN/-
	I-KEY	Make sure of normal reception from Intelligent Key unit.	OK/UNKWN/-		
	EPS	EPS is not diagnosed.	-		
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN/-		
	e4WD	e4WD is not diagnosed.	-		
	ICC	Make sure of normal reception from ICC unit.	OK/UNKWN/-		
	LANE KEEP	LANE KEEP is not diagnosed.	-		
TIRE-P	Make sure of normal reception from BCM. (Not available for CAN system diagnosis.)	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 ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

(Example)

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

SKIB2442E

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

Display Results (Present)

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

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

(Example)

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

SKIB2360E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
AUTO DRIVE POS.	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
	TCM	Make sure of normal reception from TCM.	OK/UNKWN

Display Results (Present)

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

(Example)

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

SKIB0595E

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

Display Results (Present)

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

Display Results (Past)

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

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CAN COMMUNICATION

PFP:23710

System Description

AKS007GA

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

CAN Communication Unit

AKS007Z4

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

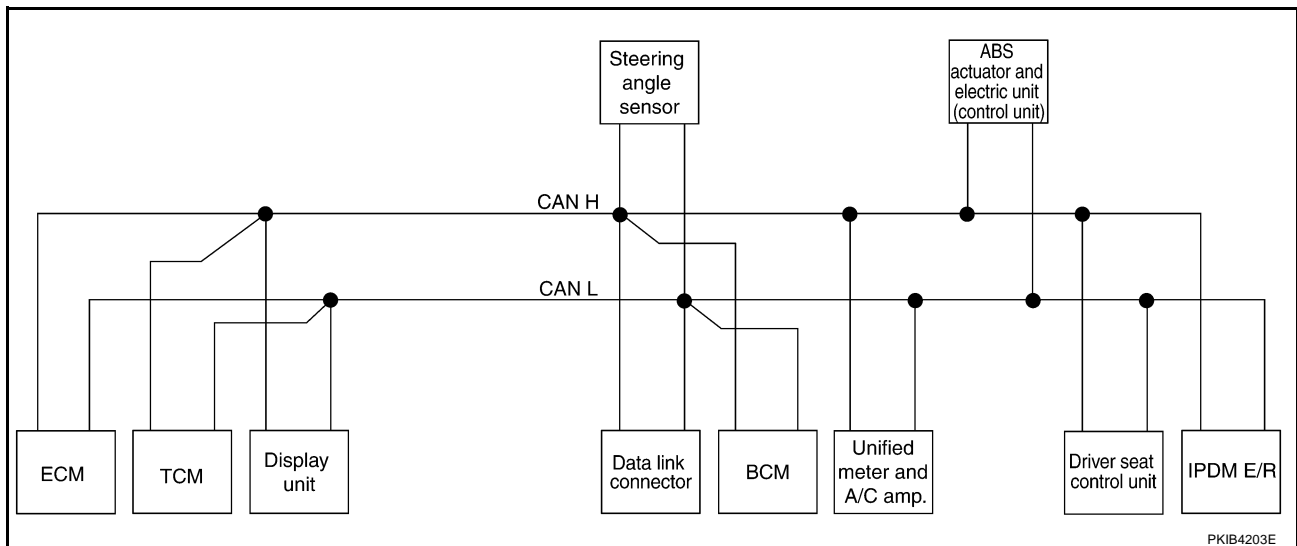
Body type	Wagon									
Axle	2WD					AWD				
Engine	VQ35DE					VQ35DE/VK45DE				
Transmission	A/T									
Brake control	VDC									
Navigation system				×	×				×	×
ICC system				×	×				×	×
Intelligent Key system				×	×				×	×
Lane departure warning system			×		×			×		×
Automatic drive positioner		×	×	×	×		×	×	×	×
CAN system type	9	1	2	3	4	10	5	6	7	8
CAN system trouble diagnosis	LAN-400	LAN-47	LAN-85	LAN-126	LAN-171	LAN-434	LAN-219	LAN-260	LAN-304	LAN-351

×: Applicable

TYPE 1/TYPE 2/TYPE 9

System Diagram

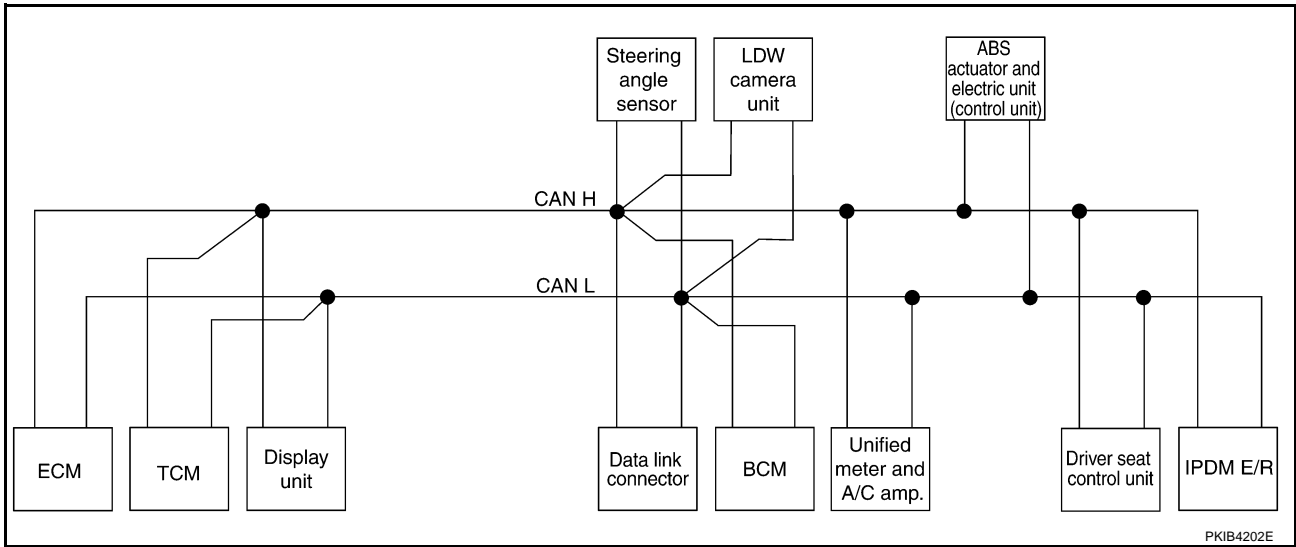
- Type 1



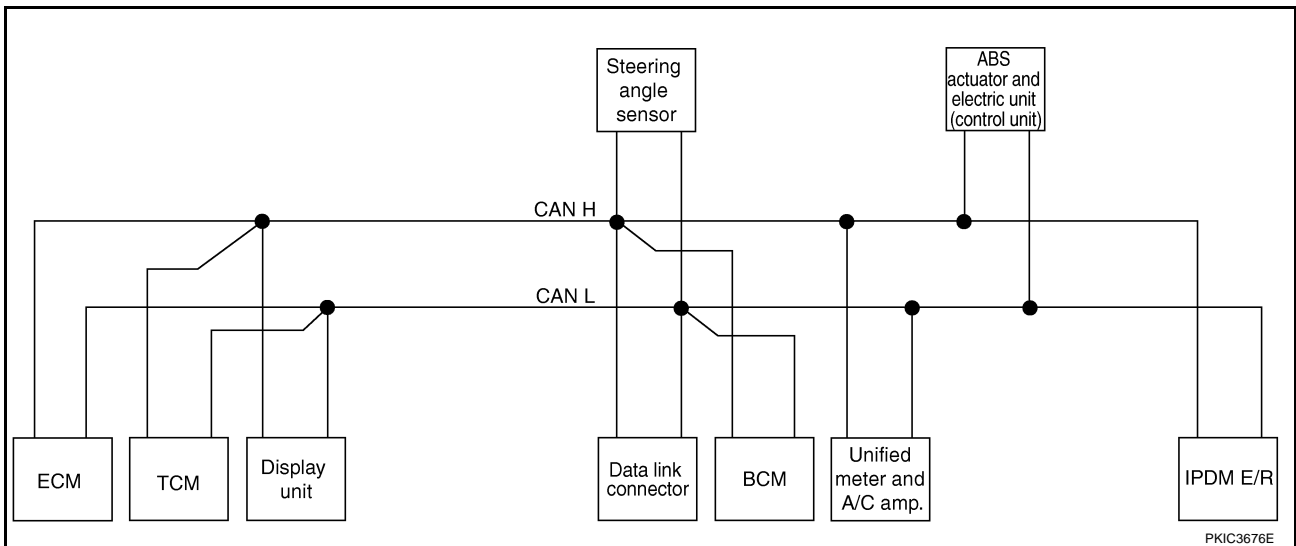
CAN COMMUNICATION

[CAN]

● Type 2



● Type 9



Input/Output Signal Chart

T: Transmit R: Receive

Signals	ECM	TCM	Display unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
Engine speed signal	T	R	R				R	R		
Engine status signal	T			R						
Engine coolant temperature signal	T						R			
A/T self-diagnosis signal	R	T								
Accelerator pedal position signal	T	R						R		
Closed throttle position signal	T	R								
Wide open throttle position signal	T	R								
Battery voltage signal	T	R								
Key switch signal				T					R	

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
Ignition switch signal				T					R	R
P range signal		T						R	R	
Stop lamp switch signal		R					T			
Fuel consumption monitor signal	T						R			
			R				T			
Turbine revolution signal	R	T								
Output shaft revolution signal	R	T				R				
A/C switch signal	R			T						
A/C compressor request signal	T									R
A/C compressor feedback signal	T						R			
Blower fan motor switch signal	R			T						
A/C switch/indicator signal			T				R			
			R				T			
Cooling fan speed request signal	T									R
Position light request signal			R	T			R			R
Low beam request signal				T						R
Low beam status signal	R									T
High beam request signal				T			R			R
High beam status signal	R									T
Front fog light request signal				T						R
Day time running light request signal				T			R			
Turn LED burnout status signal				R			T			
Vehicle speed signal						R	R	T		
	R	R	R	R			T		R	
Sleep wake up signal				T			R			R
Door switch signal			R	T			R		R	R
Turn indicator signal				T		R	R			
Key fob ID signal				T					R	
Key fob door unlock signal				T					R	
Oil pressure switch signal				R						T
				T			R			
Buzzer output signal				T			R			
Fuel level sensor signal	R						T			
Fuel level low warning signal			R				T			
ASCD SET lamp signal	T						R			
ASCD CRUISE lamp signal	T						R			
Malfunction indicator lamp signal	T						R			
ASCD operation signal	T	R								
ASCD OD cancel request signal	T	R								

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
Front wiper request signal				T						R
Front wiper stop position signal				R						T
Rear window defogger switch signal				T						R
Rear window defogger control signal	R		R	R						T
Hood switch signal				R						T
Theft warning horn request signal				T						R
Horn chirp signal				T						R
Steering angle sensor signal					T			R		
ABS warning lamp signal							R	T		
VDC OFF indicator lamp signal							R	T		
SLIP indicator lamp signal							R	T		
Brake warning lamp signal							R	T		
System setting signal			T	R					R	
			R	T					T	
A/T CHECK indicator lamp signal		T					R			
A/T position indicator lamp signal		T					R			
A/T shift schedule change demand signal		R						T		
Manual mode signal		R					T			
Not manual mode signal		R					T			
Manual mode shift up signal		R					T			
Manual mode shift down signal		R					T			
Manual mode indicator signal		T					R			
Distance to empty signal			R				T			
Parking brake switch signal				R			T			
Snow mode switch signal	R						T			
Tire pressure signal				T			R			

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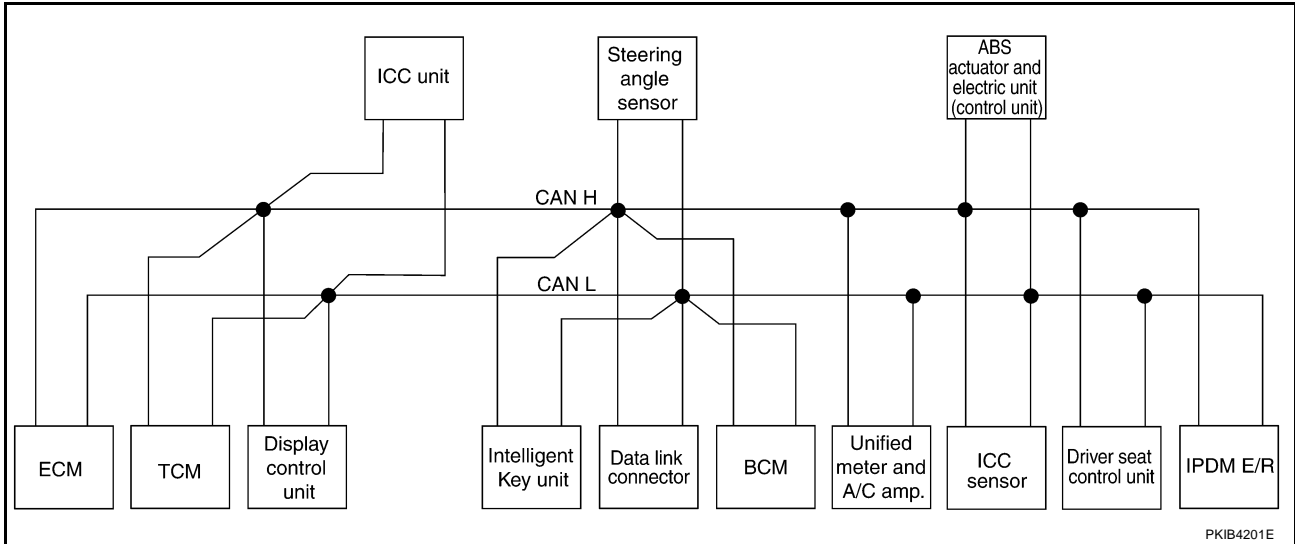
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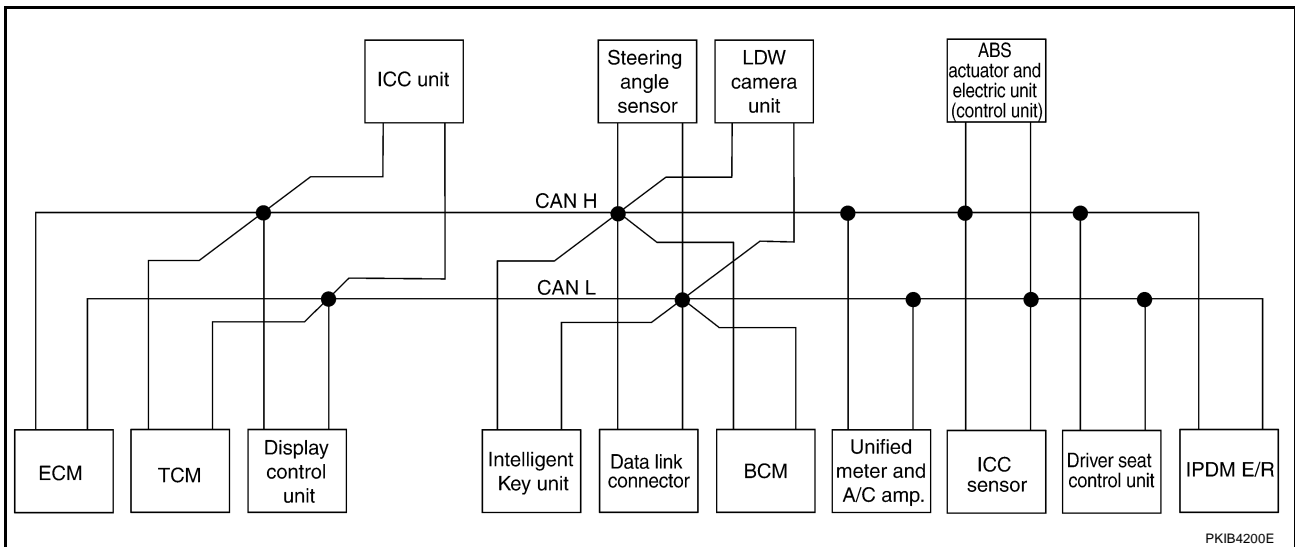
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TYPE 3/TYPE 4 System Diagram

- Type 3



- Type 4



Input/Output Signal Chart

T: Transmit R: Receive

Signals	ECM	TCM	Display control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
Engine speed signal	T	R	R	R					R		R		
Engine status signal	T					R							
Engine coolant temperature signal	T								R				
A/T self-diagnosis signal	R	T											
Accelerator pedal position signal	T	R		R							R		

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
Closed throttle position signal	T	R		R									
Wide open throttle position signal	T	R											
Battery voltage signal	T	R											
Key switch signal						T						R	
Ignition switch signal						T						R	R
P range signal		T		R							R	R	
Stop lamp switch signal		R						T					
ABS operation signal				R							T		
TCS operation signal				R							T		
VDC operation signal				R							T		
Fuel consumption monitor signal	T		R					R	T				
Turbine revolution signal	R	T		R									
Output shaft revolution signal	R	T		R				R					
A/C switch signal	R					T							
A/C compressor request signal	T												R
A/C compressor feedback signal	T							R					
Blower fan motor switch signal	R					T							
A/C switch/indicator signal			T					R					
			R					T					
Cooling fan speed request signal	T												R
Position light request signal						T		R					R
Low beam request signal						T							R
Low beam status signal	R												T
High beam request signal						T		R					R
High beam status signal	R												T
Front fog light request signal						T							R
Day time running light request signal						T		R					
Turn LED burnout status signal						R		T					

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
Vehicle speed signal				R				R	R		T		
	R	R	R		R	R			T	R		R	
Sleep wake up signal						T			R				R
					T	R							
Door switch signal			R		R	T			R			R	R
Turn indicator signal						T		R	R				
Key fob ID signal						T						R	
Key fob door unlock signal						T						R	
Oil pressure switch signal						R							T
						T			R				
Buzzer output signal						T			R				
					T				R				
				T					R				
Fuel level sensor signal	R								T				
Fuel level low warning signal			R						T				
Malfunctioning indicator lamp signal	T								R				
ICC operation signal	R			T									
Front wiper request signal				R		T							R
Front wiper stop position signal						R							T
Rear window defogger switch signal						T							R
Rear window defogger control signal	R		R			R							T
Hood switch signal						R							T
Theft warning horn request signal						T							R
Horn chirp signal						T							R
Steering angle sensor signal							T				R		
Tire pressure signal						T			R				
ABS warning lamp signal									R		T		
VDC OFF indicator lamp signal									R		T		
SLIP indicator lamp signal									R		T		
Brake warning lamp signal									R		T		

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
System setting signal			T		R							R	
			R		T							T	
Distance to empty signal			R						T				
Parking brake switch signal						R			T				
Door lock/unlock request signal					T	R							
Door lock/unlock status signal					R	T							
Starter permission signal					T	R							
Back door open request signal					T	R							
Power window open request signal					T	R							
Alarm request signal					T	R							
Key warning signal					T				R				
ICC sensor signal				R						T			
ICC warning lamp signal				T					R				
ICC system display signal				T					R				
Current gear position signal		T		R							R		
ICC steering switch signal	T			R									
ASCD operation signal	T	R											
ASCD OD cancel request signal	T	R											
ICC OD cancel request signal		R		T									
A/T CHECK indicator lamp signal		T							R				
A/T position indicator lamp signal		T							R				
A/T shift schedule change demand signal		R									T		
Manual mode signal		R							T				
Not manual mode signal		R							T				
Manual mode shift up signal		R							T				
Manual mode shift down signal		R							T				
Manual mode indicator signal		T		R					R				

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CAN COMMUNICATION

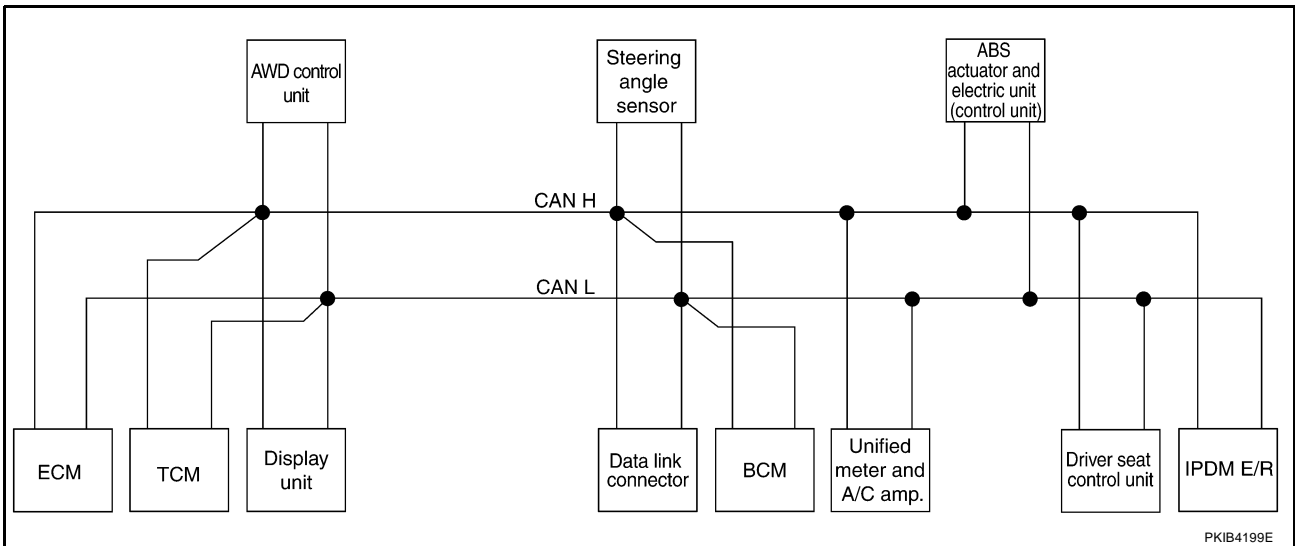
[CAN]

Signals	ECM	TCM	Display control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
Ignition knob switch signal					T	R							
Snow mode switch signal	R								T				
	T			R									
VDC OFF switch signal				R							T		

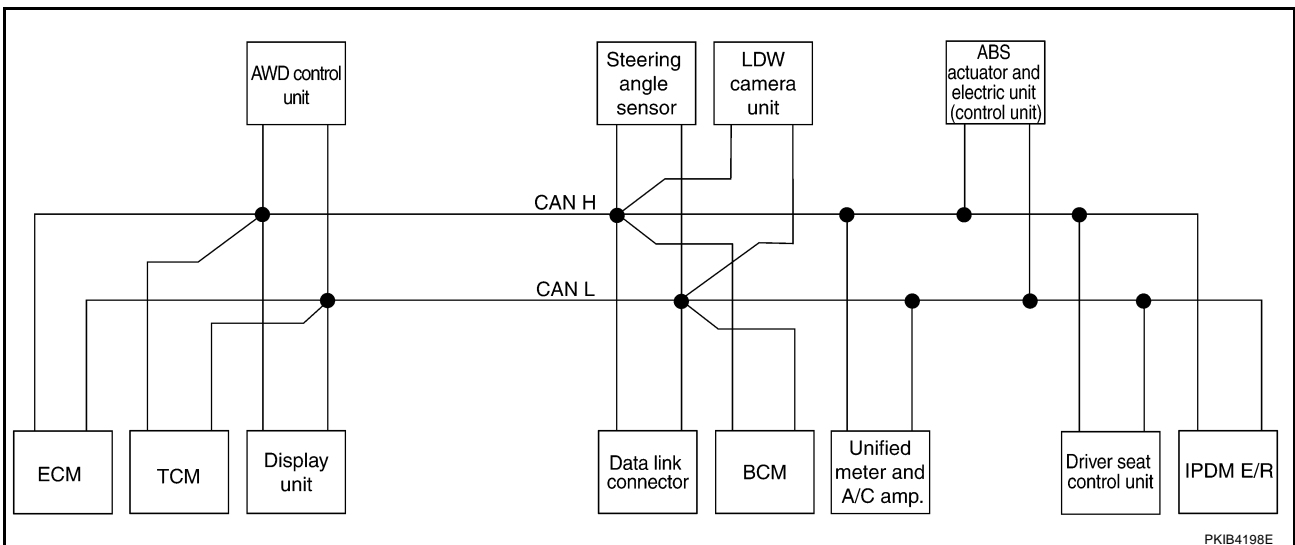
TYPE 5/TYPE 6/TYPE 10

System Diagram

- Type 5



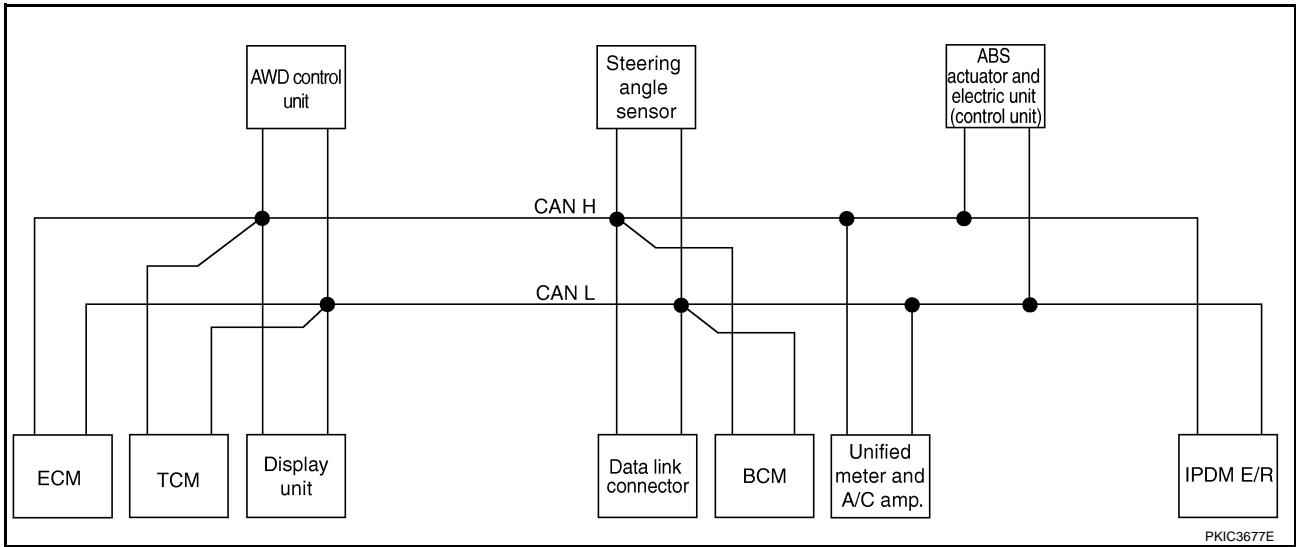
- Type 6



CAN COMMUNICATION

[CAN]

● Type 10



Input/Output Signal Chart

T: Transmit R: Receive

Signals	ECM	TCM	Display unit	AWD control unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
A/T self-diagnosis signal	R	T									
Stop lamp switch signal		R		R				T			
Battery voltage signal	T	R									
Key switch signal					T					R	
Ignition switch signal					T					R	R
P range signal		T							R	R	
Closed throttle position signal	T	R									
Wide open throttle position signal	T	R									
Engine speed signal	T	R	R	R				R	R		
Engine status signal	T				R						
Engine coolant temperature signal	T							R			
Accelerator pedal position signal	T	R		R					R		
Fuel consumption monitor signal	T							R			
			R					T			
Turbine revolution signal	R	T									
Output shaft revolution signal	R	T					R				
A/C switch signal	R				T						
A/C compressor request signal	T										R
A/C compressor feedback signal	T							R			
Blower fan motor switch signal	R				T						

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display unit	AWD control unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
A/C switch/indicator signal			T					R			
			R					T			
Cooling fan speed request signal	T										R
Position light request signal			R		T			R			R
Low beam request signal					T						R
Low beam status signal	R										T
High beam request signal					T			R			R
High beam status signal	R										T
Front fog light request signal					T						R
Day time running light request signal					T			R			
Turn LED burnout status signal					R			T			
Vehicle speed signal				R			R	R	T		
	R	R	R		R			T		R	
Sleep wake up signal					T		R				R
Door switch signal			R		T			R		R	R
Turn indicator signal					T		R	R			
Key fob ID signal					T					R	
Key fob door unlock signal					T					R	
Oil pressure switch signal					R						T
					T			R			
Buzzer output signal					T			R			
Fuel level sensor signal	R							T			
Fuel level low warning signal			R					T			
ASCD SET lamp signal	T							R			
ASCD CRUISE lamp signal	T							R			
Malfunction indicator lamp signal	T							R			
Front wiper request signal					T						R
Front wiper stop position signal					R						T
Rear window defogger switch signal					T						R
Rear window defogger control signal	R		R		R						T
Hood switch signal					R						T
Theft warning horn request signal					T						R
Horn chirp signal					T						R
Steering angle sensor signal						T			R		

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display unit	AWD control unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
ABS warning lamp signal								R	T		
VDC OFF indicator lamp signal								R	T		
SLIP indicator lamp signal								R	T		
Brake warning lamp signal								R	T		
System setting signal			T		R					R	
			R		T					T	
AWD warning lamp signal				T				R			
Distance to empty signal			R					T			
Parking brake switch signal				R	R			T			
ASCD operation signal	T	R									
ASCD OD cancel request signal	T	R									
A/T CHECK indicator lamp signal		T						R			
A/T position indicator lamp signal		T						R			
A/T shift schedule change demand signal		R							T		
Manual mode signal		R						T			
Not manual mode signal		R						T			
Manual mode shift up signal		R						T			
Manual mode shift down signal		R						T			
Manual mode indicator signal		T						R			
Snow mode switch signal	R							T			
Current gear position signal*	R	T									
Next gear position signal*	R	T									
Shift change signal*	R	T									
Shift pattern signal*	R	T									
Tire pressure signal					T			R			

*: VK45DE engine model only

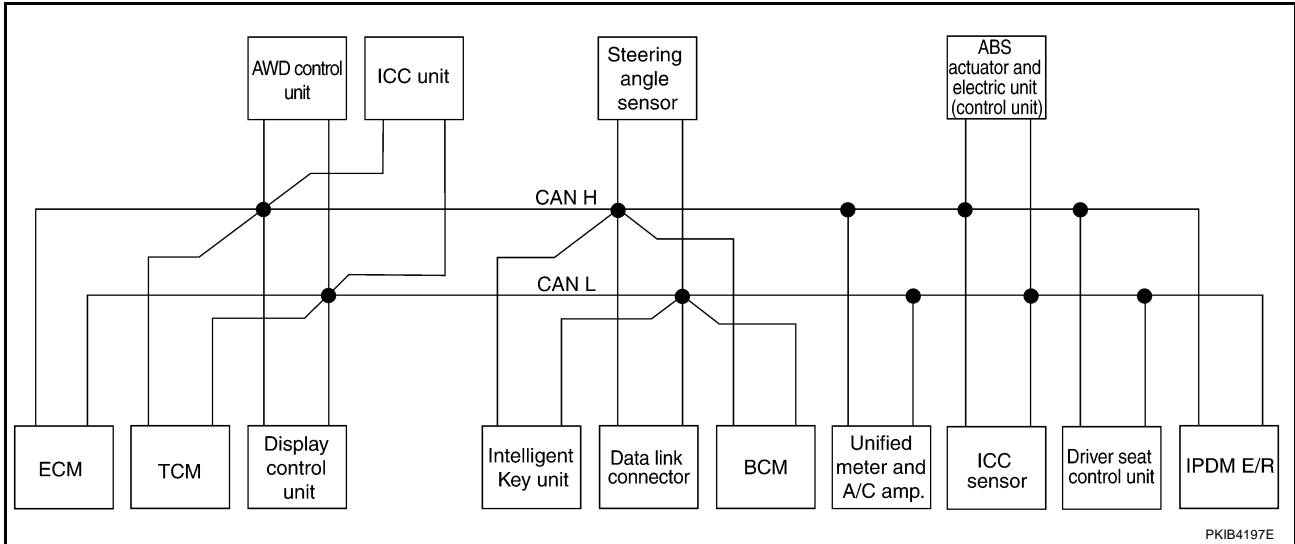
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CAN COMMUNICATION

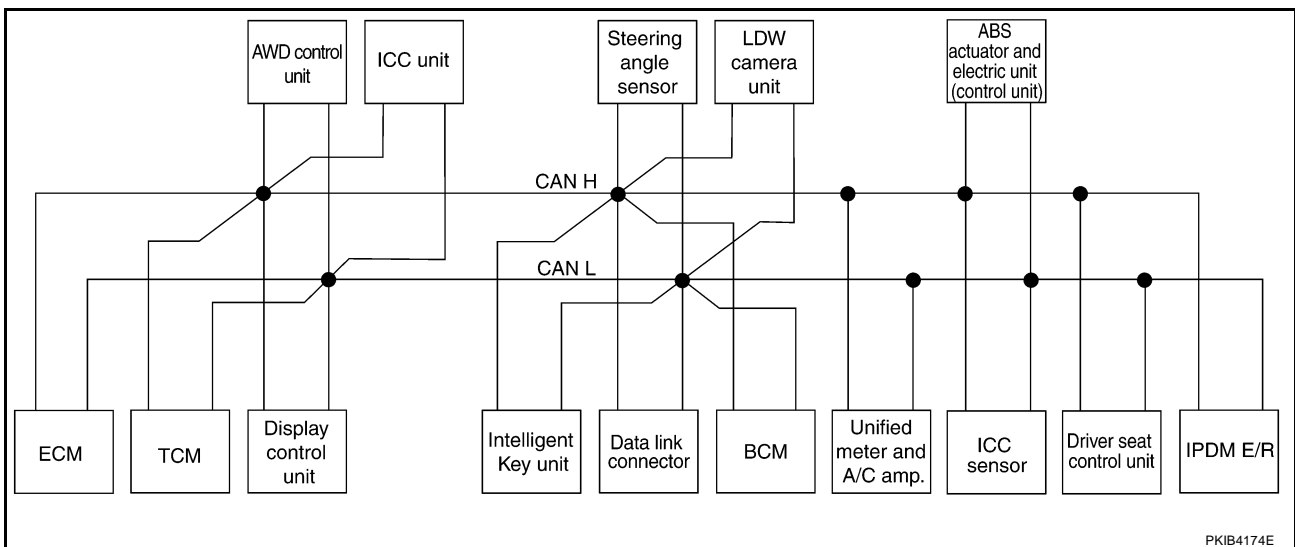
[CAN]

TYPE 7/TYPE 8 System Diagram

- Type 7



- Type 8



Input/Output Signal Chart

T: Transmit R: Receive

Signals	ECM	TCM	Display control unit	AWD control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
A/T self-diagnosis signal	R	T												
ABS operation signal					R							T		
TCS operation signal					R							T		
VDC operation signal					R						R	T		
Stop lamp switch signal		R		R						T				

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	AWD control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
Battery voltage signal	T	R												
Key switch signal							T						R	
Ignition switch signal							T						R	R
P range signal		T			R							R	R	
Closed throttle position signal	T	R			R									
Wide open throttle position signal	T	R												
Engine speed signal	T	R	R	R	R					R		R		
Engine status signal	T						R							
Engine coolant temperature signal	T									R				
Accelerator pedal position signal	T	R		R	R							R		
Fuel consumption monitor signal	T									R				
			R							T				
Turbine revolution signal	R	T			R									
Output shaft revolution signal	R	T			R				R					
A/C switch signal	R						T							
A/C compressor request signal	T													R
A/C compressor feedback signal	T									R				
Blower fan motor switch signal	R						T							
A/C switch/indicator signal			T							R				
			R							T				
Cooling fan speed request signal	T													R
Position light request signal			R				T			R				R
Low beam request signal							T							R
Low beam status signal	R													T
High beam request signal							T			R				R
High beam status signal	R													T
Front fog light request signal							T							R

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	AWD control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
Day time running light request signal							T			R				
Turn LED burnout status signal							R			T				
Vehicle speed signal				R	R				R	R		T		
	R	R	R			R	R			T	R		R	
Sleep wake up signal							T			R				R
						T	R							
Door switch signal			R			R	T			R			R	R
Turn indicator signal							T		R	R				
Key fob ID signal							T						R	
Key fob door unlock signal							T						R	
Oil pressure switch signal							R							T
							T			R				
Buzzer output signal						T				R				
					T					R				
Fuel level sensor signal	R									T				
Fuel level low warning signal			R							T				
Malfunction indicator lamp signal	T									R				
ICC operation signal	R				T									
Front wiper request signal					R		T							R
Front wiper stop position signal							R							T
Rear window defogger switch signal							T							R
Rear window defogger control signal	R		R				R							T
Hood switch signal							R							T
Theft warning horn request signal							T							R
Horn chirp signal							T							R
Steering angle sensor signal								T				R		
Tire pressure signal							T			R				
ABS warning lamp signal										R		T		

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	AWD control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
VDC OFF indicator lamp signal										R		T		
SLIP indicator lamp signal										R		T		
Brake warning lamp signal										R		T		
System setting signal			T			R							R	
			R			T							T	
AWD warning lamp signal				T						R				
Distance to empty signal			R							T				
Parking brake switch signal				R			R			T				
Door lock/unlock request signal						T	R							
Door lock/unlock status signal						R	T							
Starter permission signal						T	R							
Back door open request signal						T	R							
Power window open request signal						T	R							
Alarm request signal						T	R							
Key warning signal						T				R				
ICC sensor signal					R						T			
ICC warning lamp signal					T					R				
ICC system display signal					T					R				
Current gear position signal		T			R							R		
ICC steering switch signal	T				R									
ASCD operation signal	T	R												
ASCD OD cancel request signal	T	R												
ICC OD cancel request signal		R			T									
A/T CHECK indicator lamp signal		T								R				
A/T position indicator lamp signal		T								R				

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	AWD control unit	ICC unit	Intelligent Key unit	BCM	Steering angle sensor	LDW camera unit	Unified meter and A/C amp.	ICC sensor	ABS actuator and electric unit (control unit)	Driver seat control unit	IPDM E/R
A/T shift schedule change demand signal		R										T		
Manual mode signal		R								T				
Not manual mode signal		R								T				
Manual mode shift up signal		R								T				
Manual mode shift down signal		R								T				
Manual mode indicator signal		T								R				
Ignition knob switch signal						T	R							
Snow mode switch signal	R									T				
	T									R				
Current gear position signal*	R	T												
Next gear position signal*	R	T												
Shift change signal*	R	T												
Shift pattern signal*	R	T												
VDC OFF switch signal					R							T		

*: VK45DE engine model only

CAN SYSTEM (TYPE 1)

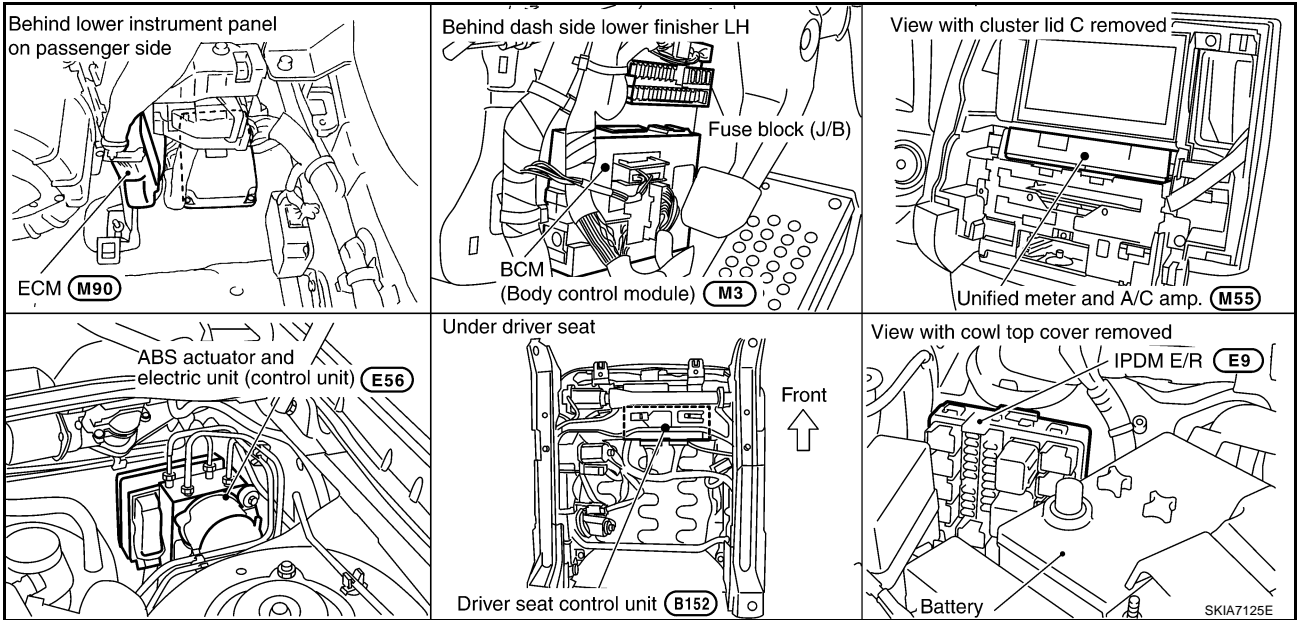
[CAN]

PFP:23710

AKS00CFK

CAN SYSTEM (TYPE 1)

Component Parts and Harness Connector Location



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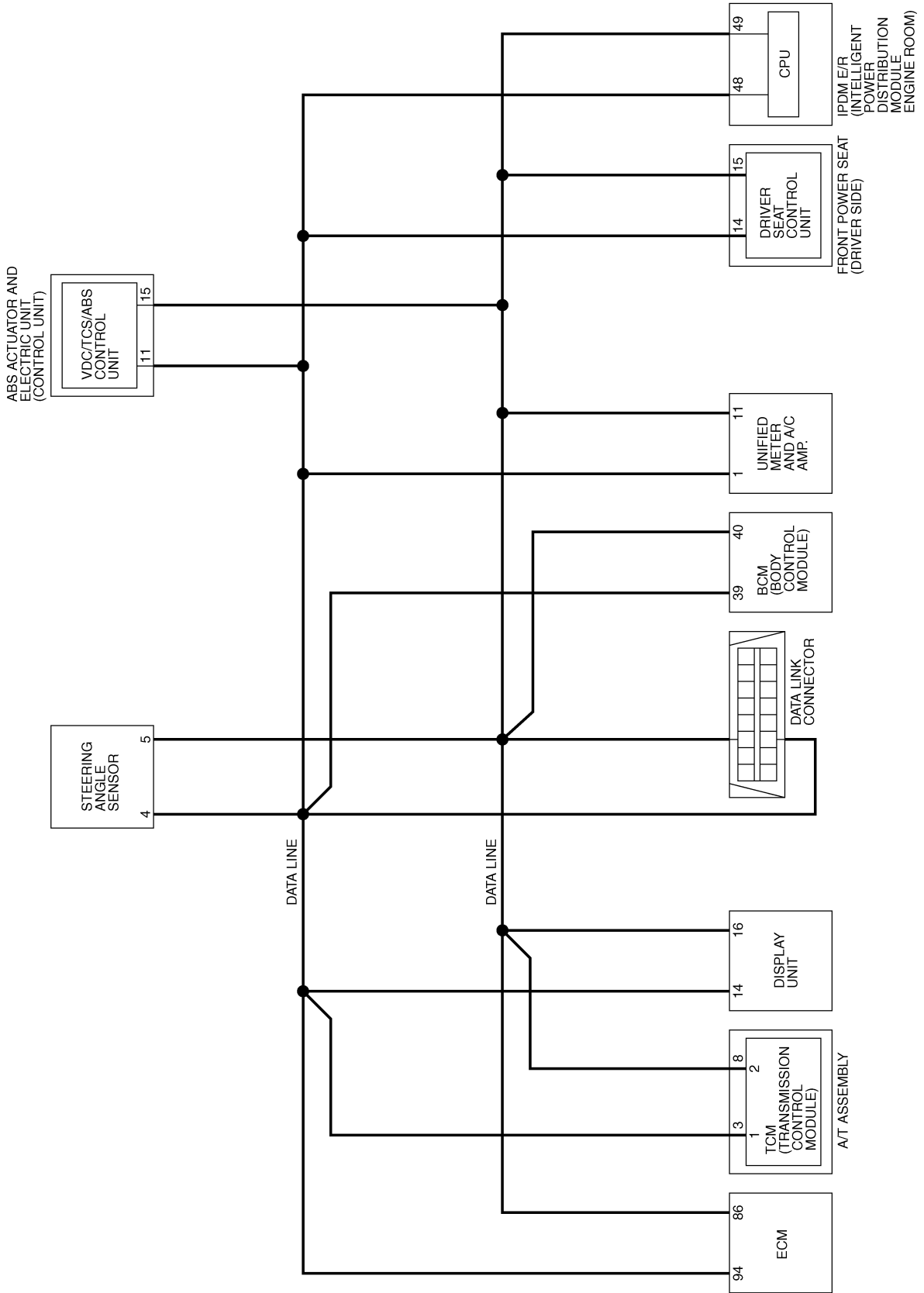
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CAN SYSTEM (TYPE 1)

[CAN]

Schematic

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TKWM2089E

CAN SYSTEM (TYPE 1)

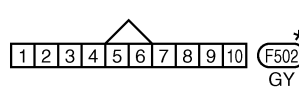
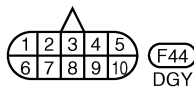
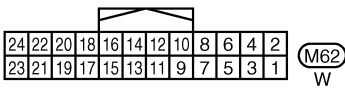
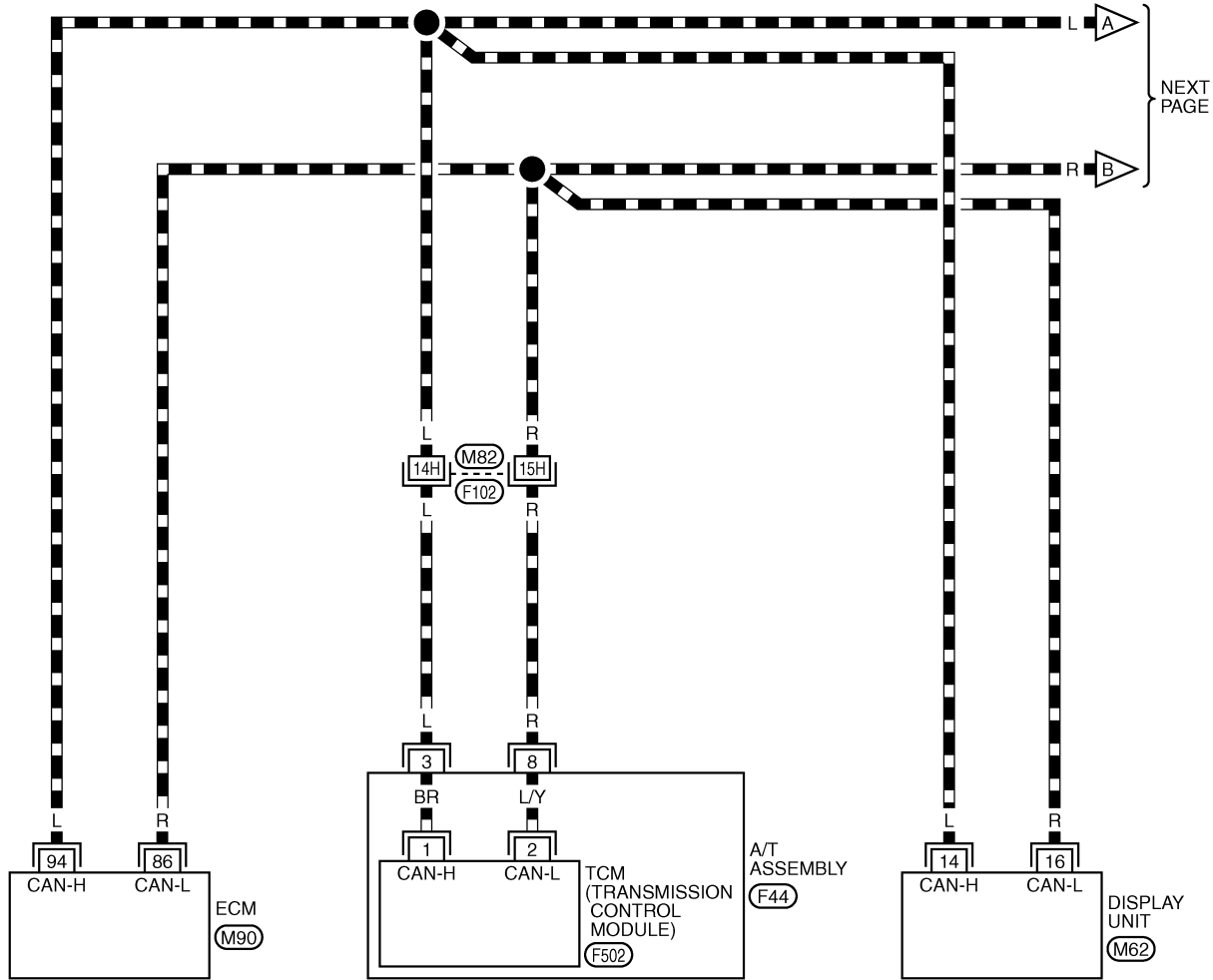
[CAN]

Wiring Diagram - CAN -

AKS00CFM

LAN-CAN-01

DATA LINE



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

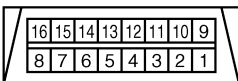
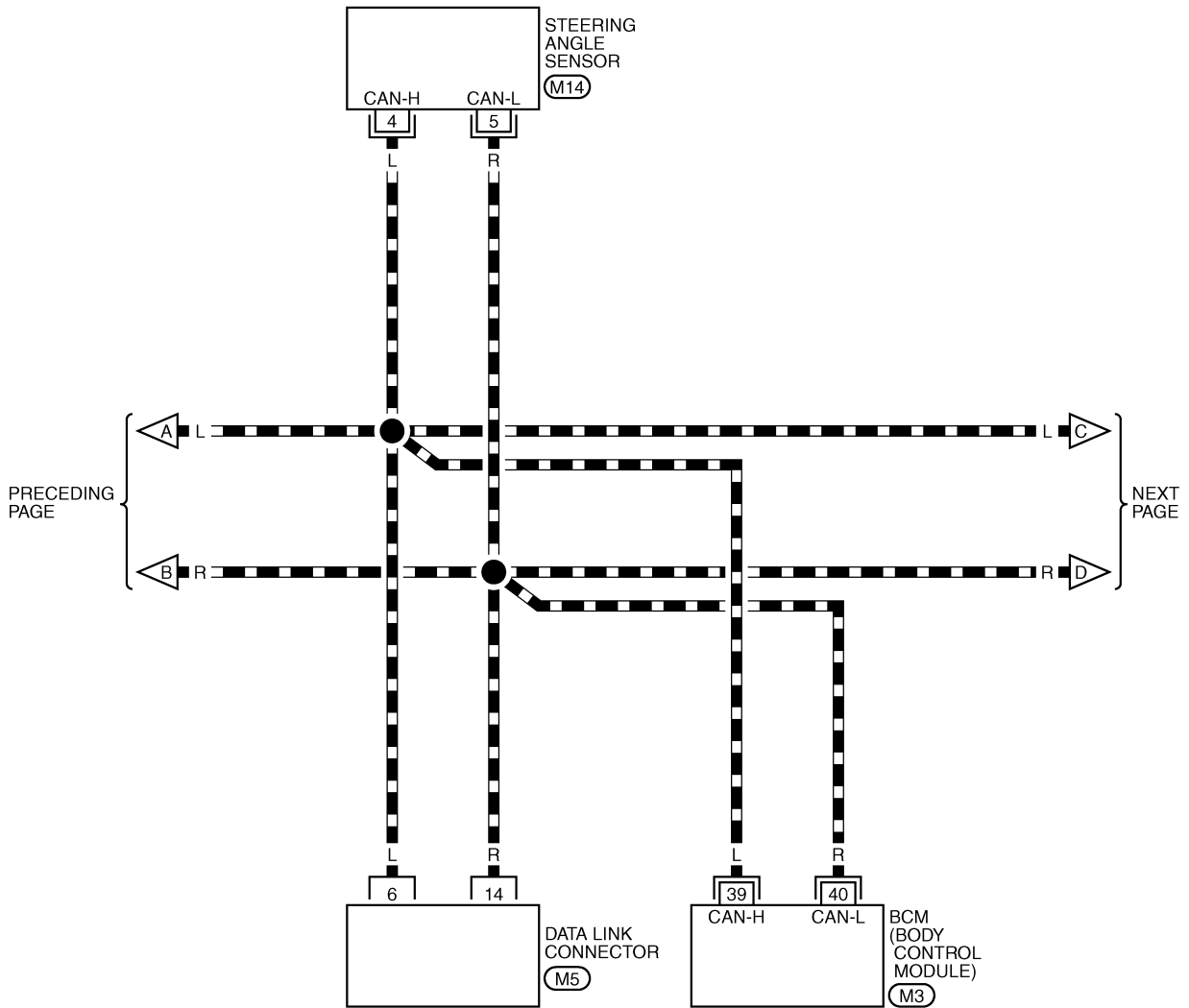
(M90) -ELECTRICAL UNITS

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

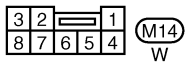
TKWM2090E

LAN-CAN-02

▬ : DATA LINE



(M5)
W



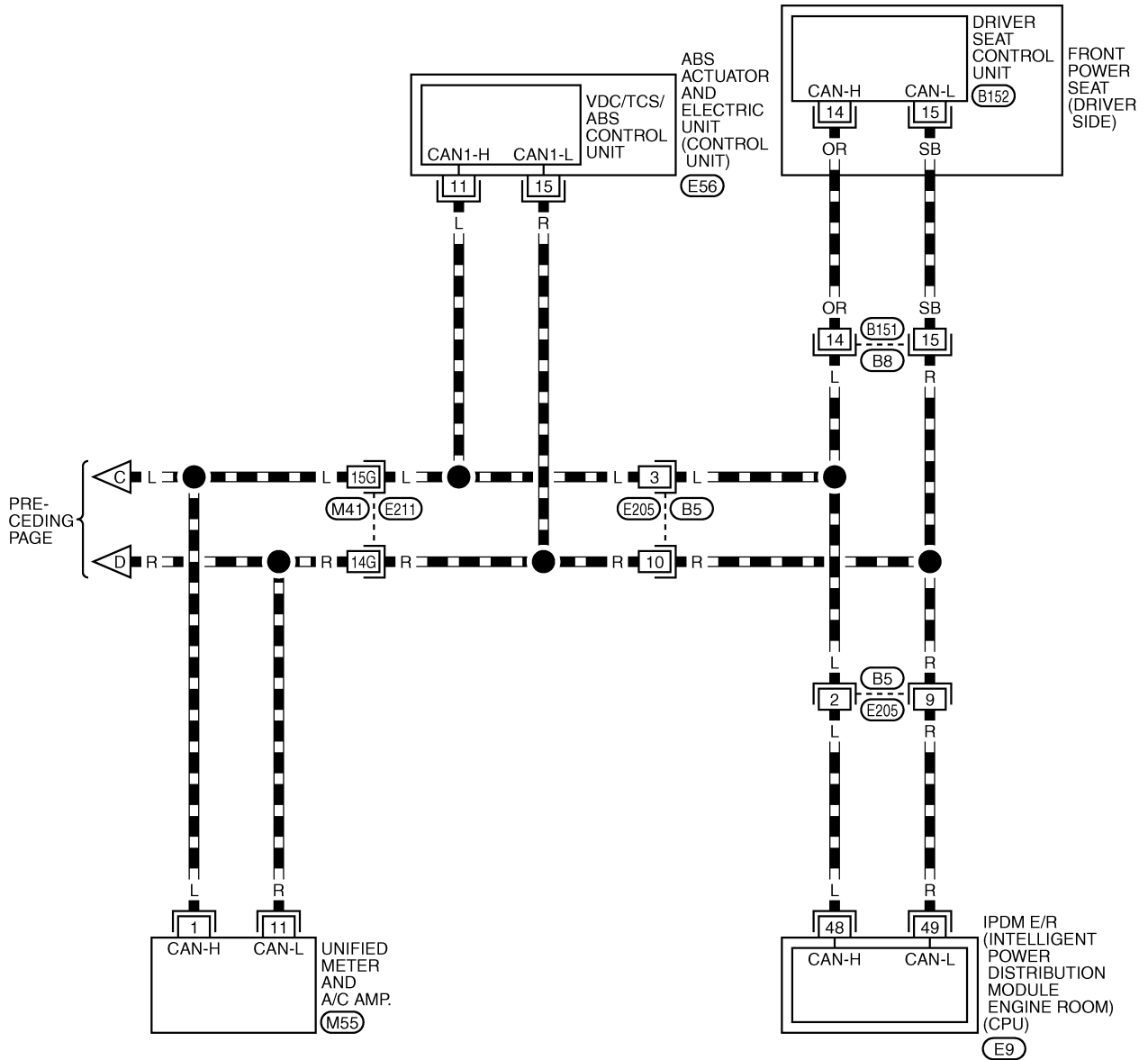
(M14)
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REFER TO THE FOLLOWING.
(M3) -ELECTRICAL UNITS

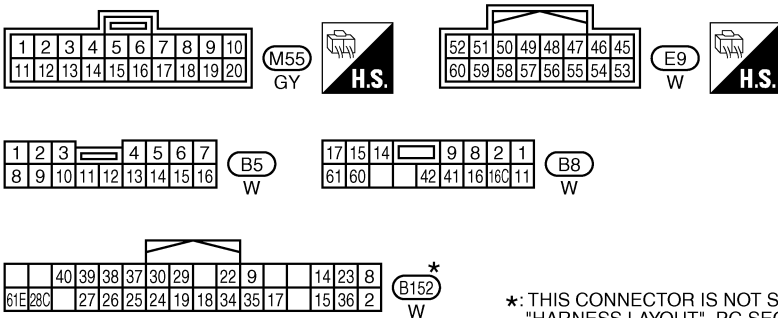
TKWM2091E

LAN-CAN-03

DATA LINE



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REFER TO THE FOLLOWING.

- (E211) -SUPER MULTIPLE JUNCTION (SMJ)
- (E56) -ELECTRICAL UNITS

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

TKWM2092E

CAN SYSTEM (TYPE 1)

[CAN]

AKS00CFN

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	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	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)	—
Display unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	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 unit Translation Sheet: Rewrite the following names, and put a check mark on the check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CANCOMM	Initial diagnosis	CAN5	METER/M&A
CAN1	Transmit diagnosis	CAN6	—
CAN2	BCM/SEC	CAN7	IPDM E/R
CAN3	ECM	CAN8	—
CAN4	—	CAN9	—

Attach copy of
display unit
CAN DIAG MONITOR check sheet

PKIB5973E

CAN SYSTEM (TYPE 1)

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Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

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

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ABS
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AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

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MNTR

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MNTR

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BCM
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METER A/C AMP
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ABS
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AUTO DRIVE POS.
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IPDM E/R
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PKIB4359E

CAN SYSTEM (TYPE 1)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

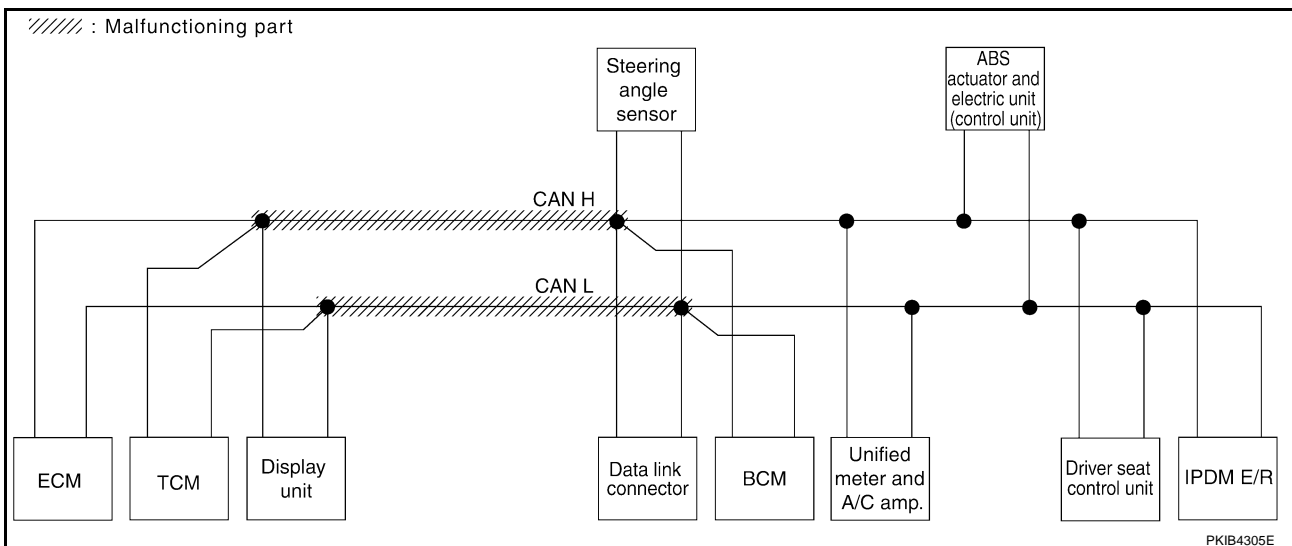
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to [LAN-70, "Inspection Between TCM and Data Link Connector Circuit"](#).

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

PKIB4441E



PKIB4305E

CAN SYSTEM (TYPE 1)

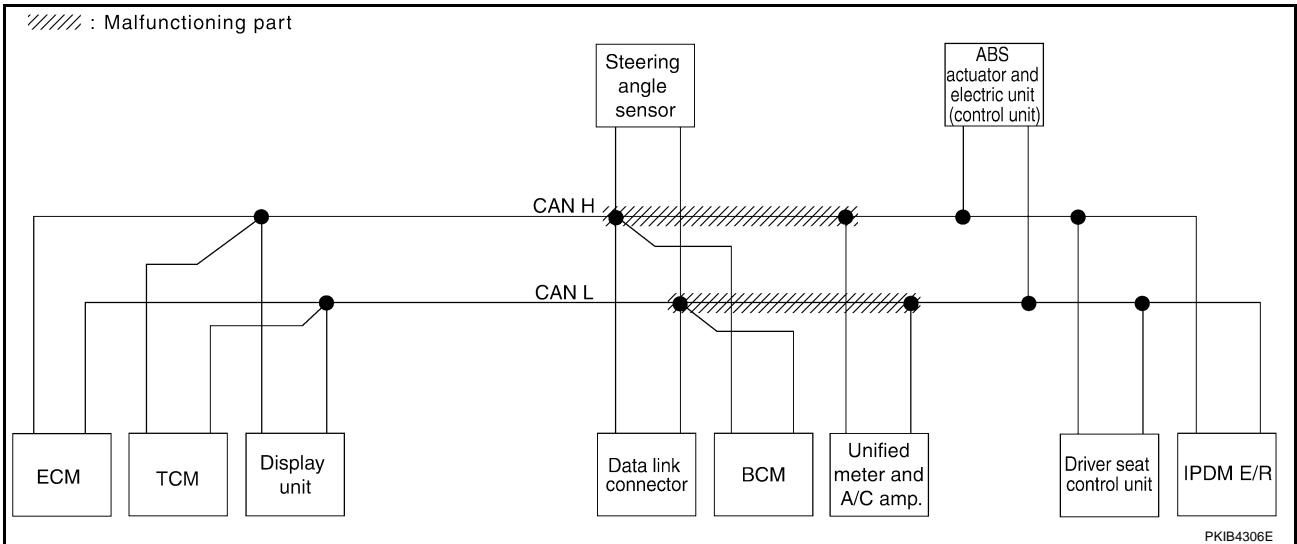
[CAN]

Case 2

Check harness between data link connector and unified meter and A/C amp. Refer to [LAN-71, "Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit"](#).

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

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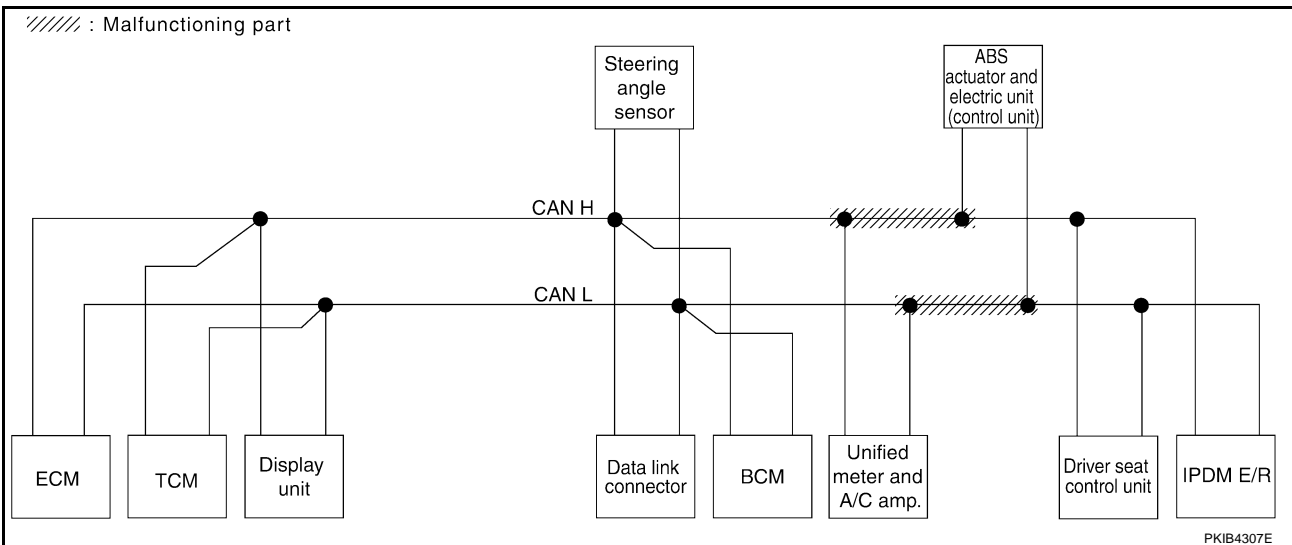
[CAN]

Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to LAN-71, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit".

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

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CAN SYSTEM (TYPE 1)

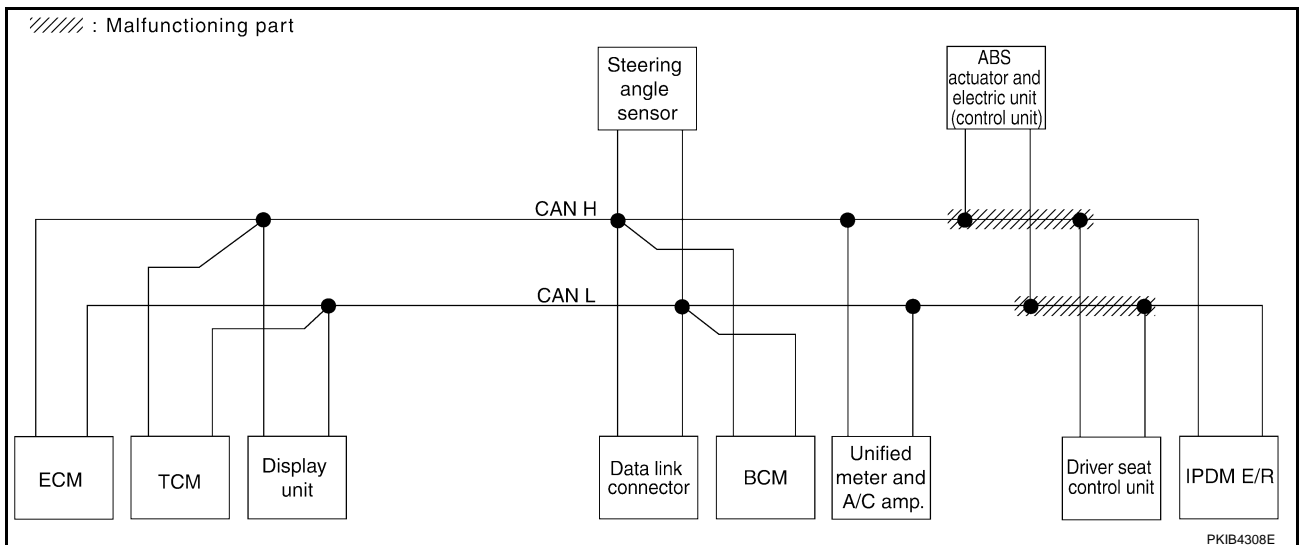
[CAN]

Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to [LAN-72, "Inspection Between ABS Actuator and Electric Unit \(Control Unit\) and Driver Seat Control Unit Circuit"](#) .

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

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CAN SYSTEM (TYPE 1)

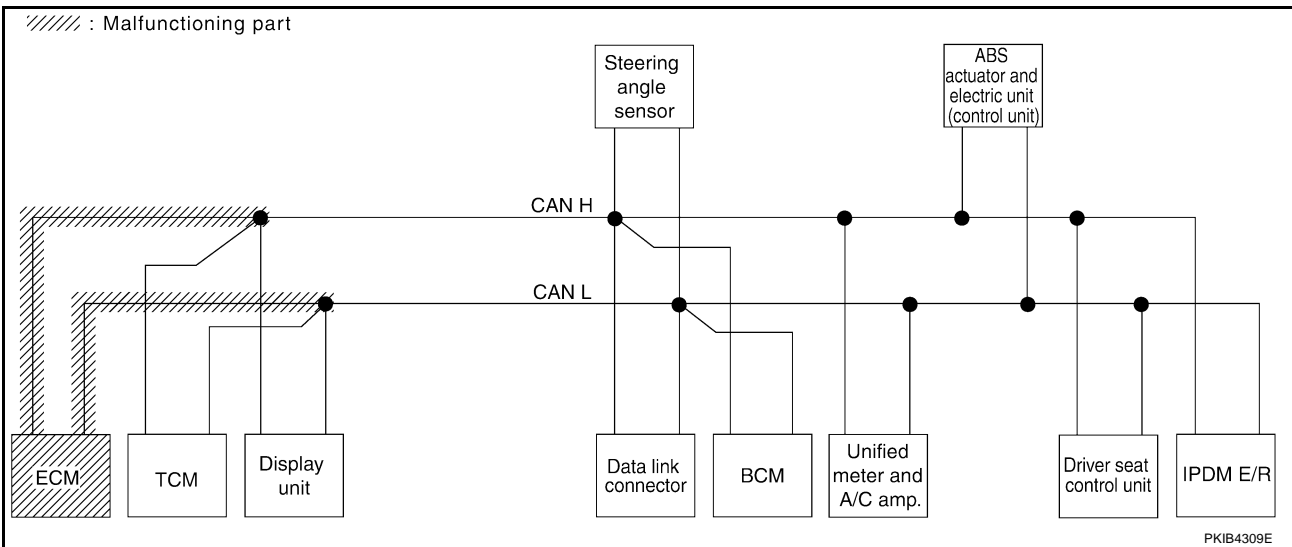
[CAN]

Case 5

Check ECM circuit. Refer to [LAN-73, "ECM Circuit Inspection"](#) .

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

PKIB4445E



PKIB4309E

CAN SYSTEM (TYPE 1)

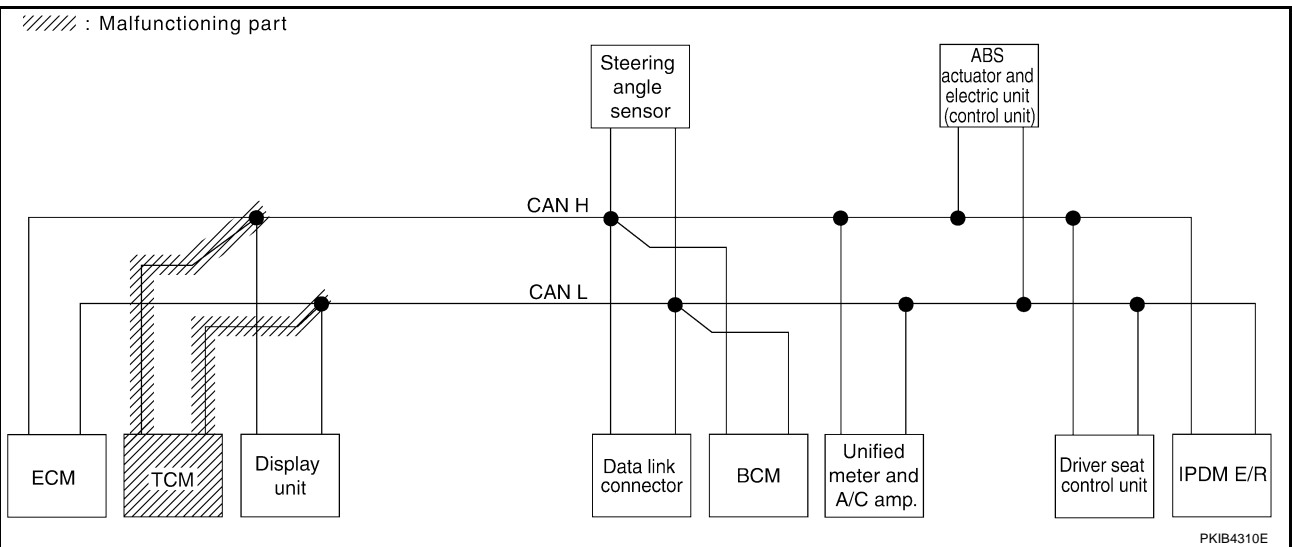
[CAN]

Case 6

Check TCM circuit. Refer to [LAN-73, "TCM Circuit Inspection"](#) .

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

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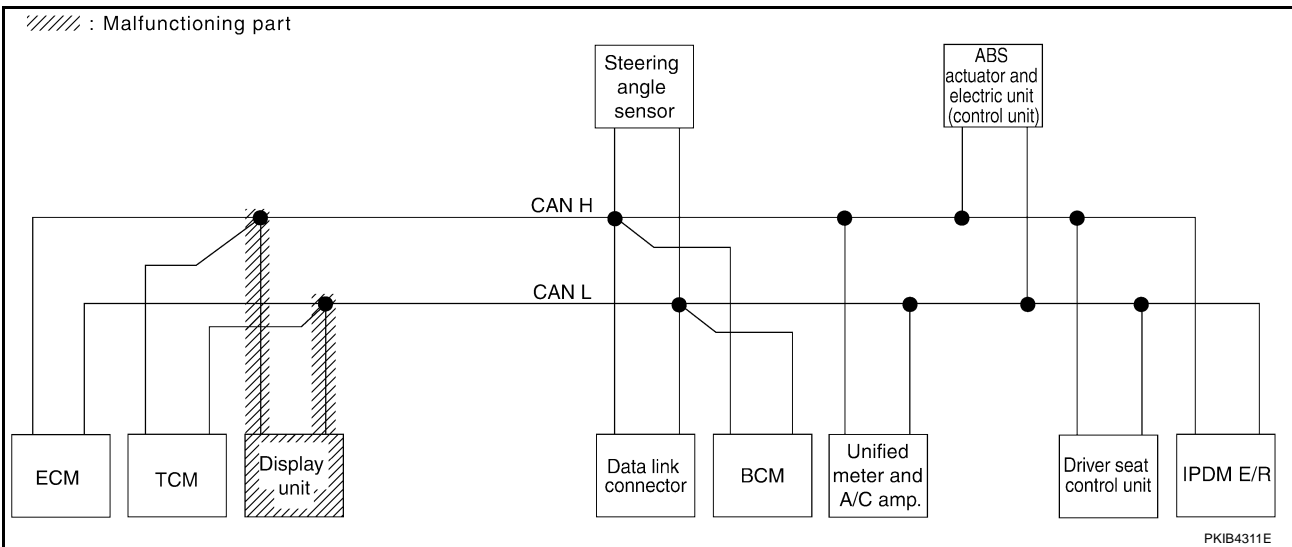
[CAN]

Case 7

Check display unit circuit. Refer to [LAN-74, "Display Unit Circuit Inspection"](#) .

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

PKIB4447E



PKIB4311E

CAN SYSTEM (TYPE 1)

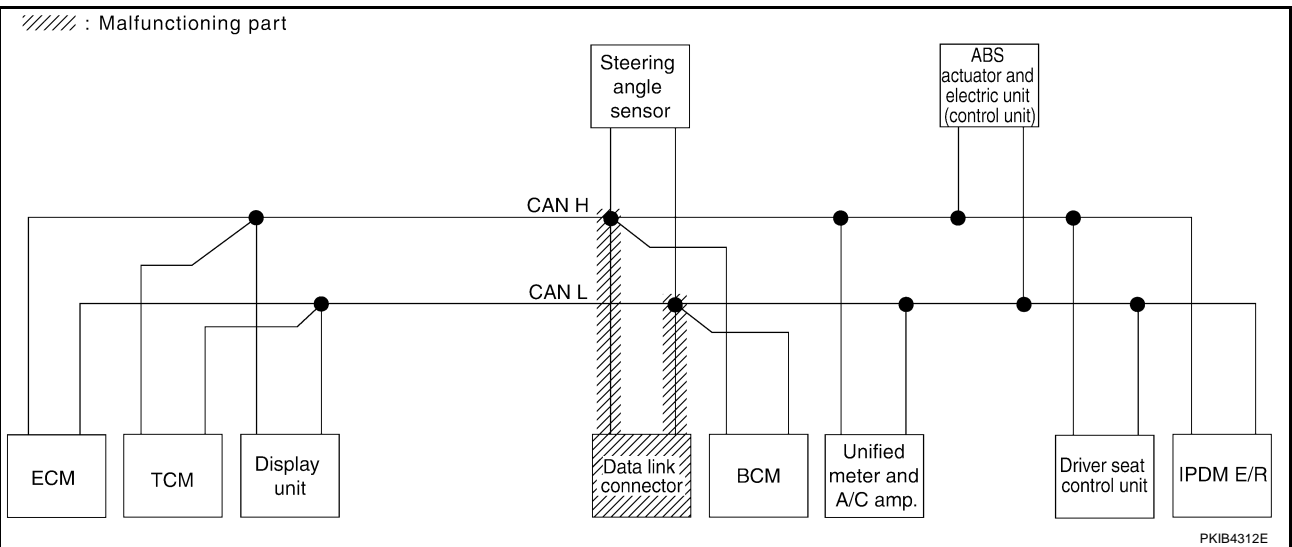
[CAN]

Case 8

Check data link connector circuit. Refer to [LAN-74, "Data Link Connector Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 1)

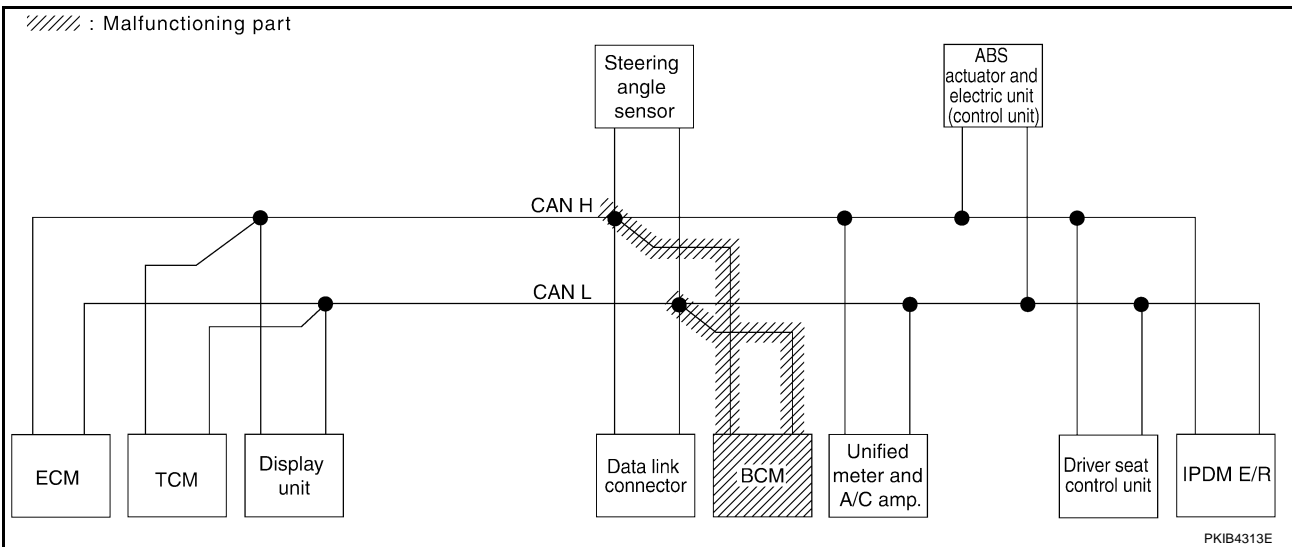
[CAN]

Case 9

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

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

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PKIB4313E

CAN SYSTEM (TYPE 1)

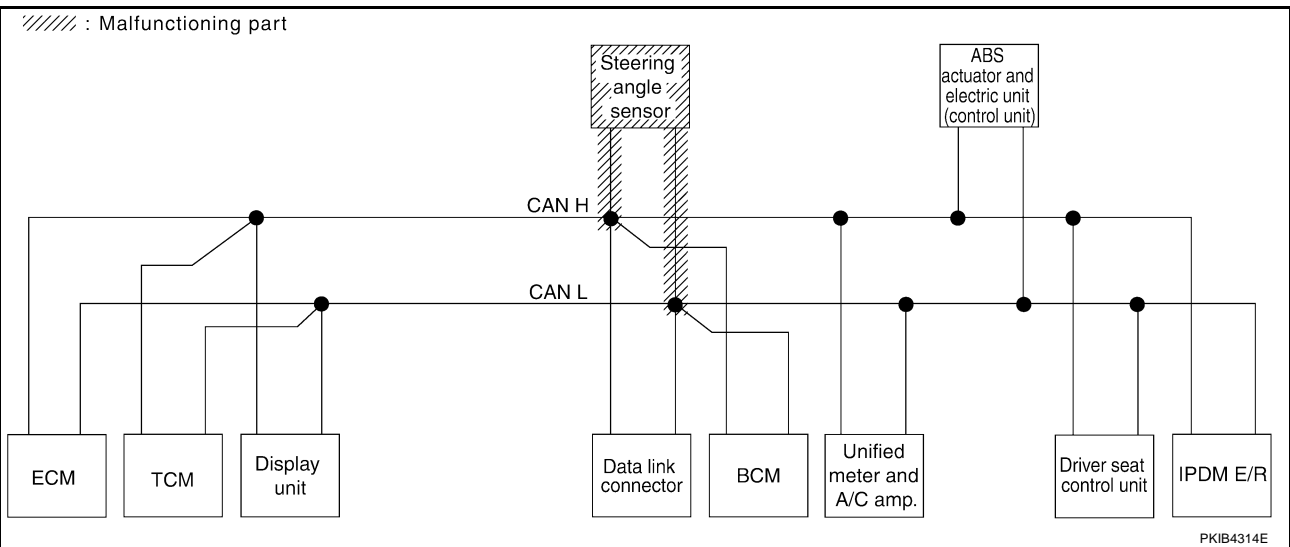
[CAN]

Case 10

Check steering angle sensor circuit. Refer to [LAN-75, "Steering Angle Sensor Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 1)

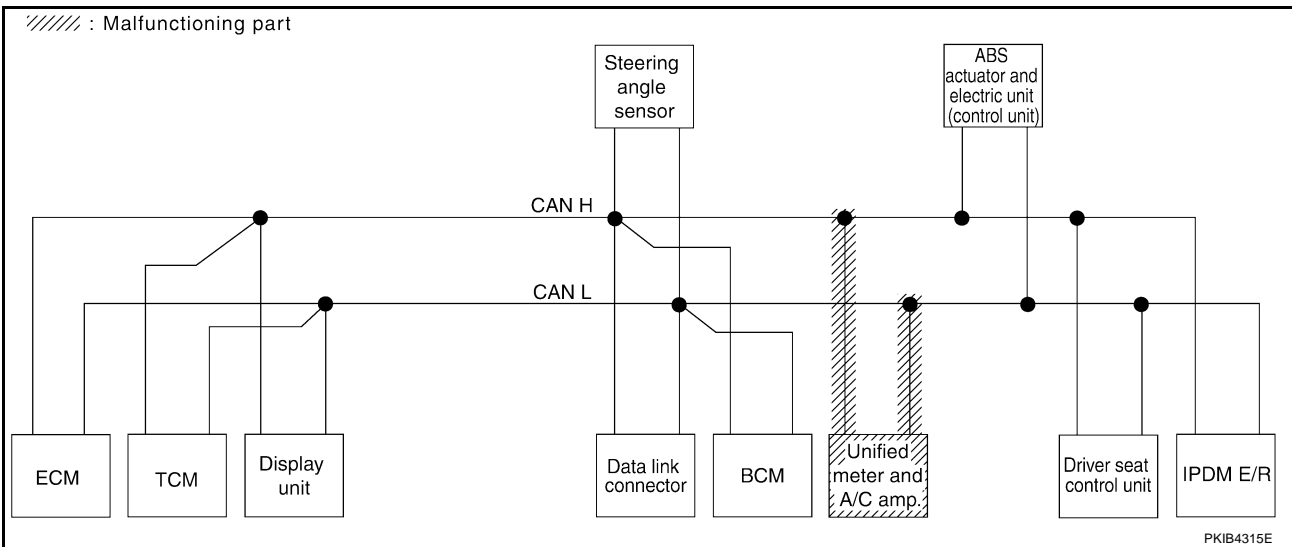
[CAN]

Case 11

Check unified meter and A/C amp. circuit. Refer to [LAN-76, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

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

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PKIB4315E

CAN SYSTEM (TYPE 1)

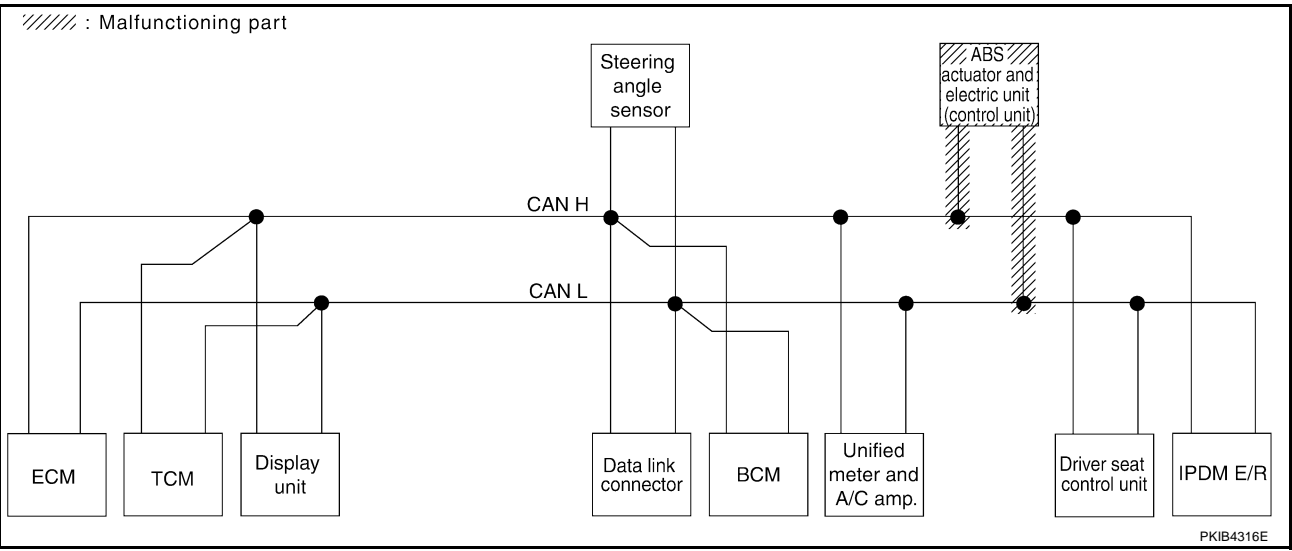
[CAN]

Case 12

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-76, "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	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	✓ CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	✓	—	✓ CAN COMM CIRCUIT (U1000)	—
Display unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	✓	—	✓ CAN COMM CIRCUIT (U1000)	—
ABS	—	✓	✓	✓	✓	—	—	✓	—	—	—	—	—	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	—	—

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CAN SYSTEM (TYPE 1)

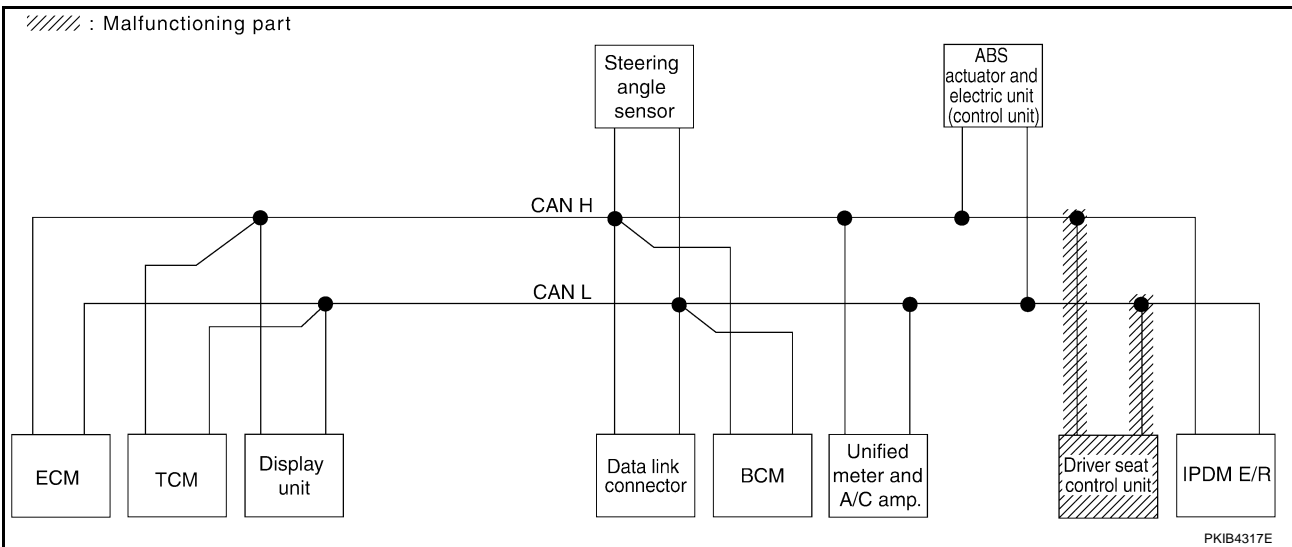
[CAN]

Case 13

Check driver seat control unit circuit. Refer to [LAN-77, "Driver Seat Control Unit Circuit Inspection"](#) .

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

PKIB4453E



PKIB4317E

CAN SYSTEM (TYPE 1)

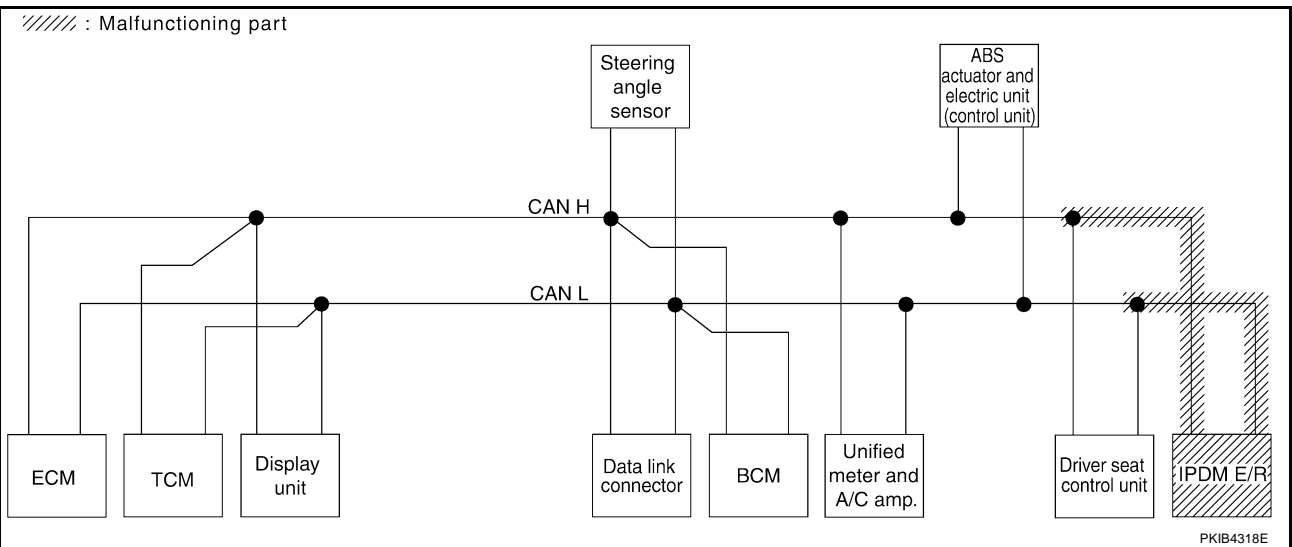
[CAN]

Case 14

Check IPDM E/R circuit. Refer to [LAN-78, "IPDM E/R Circuit Inspection"](#) .

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

PKIB4454E



PKIB4318E

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CAN SYSTEM (TYPE 1)

[CAN]

Case 15

Check CAN communication circuit. Refer to [LAN-78, "CAN Communication Circuit Inspection"](#) .

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

PKIB4455E

CAN SYSTEM (TYPE 1)

[CAN]

Case 16

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-84, "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	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	UNKWN	—	✓	—	UNKWN	—	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	✓	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

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Case 17

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-84, "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	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
Display unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB4457E

Inspection Between TCM and Data Link Connector Circuit

AKS00CFO

1. CHECK HARNESS FOR OPEN CIRCUIT

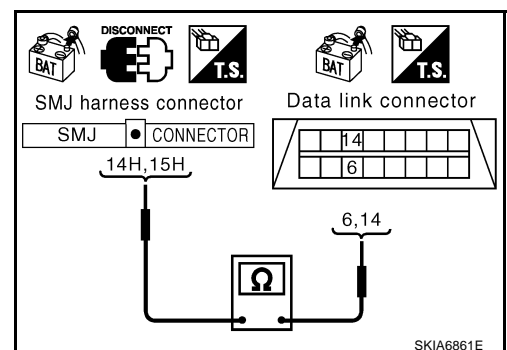
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Repair harness.



Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

AKS00CFP

1. CHECK HARNESS FOR OPEN CIRCUIT

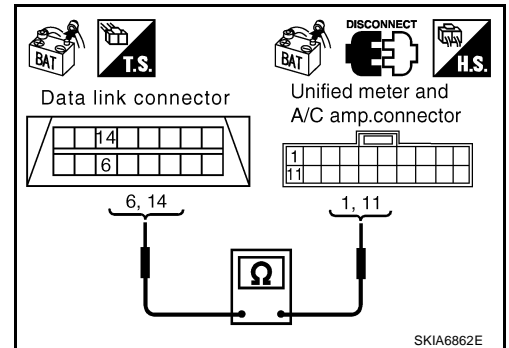
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.

14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

AKS00CFQ

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 M41
 - Harness connector E211

OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

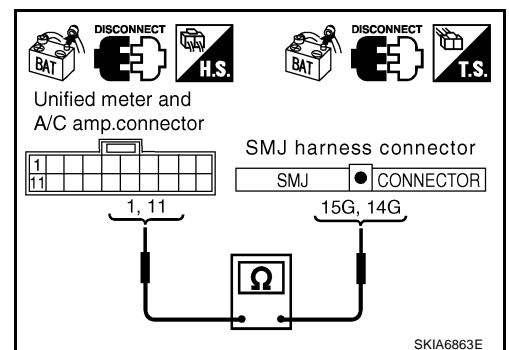
1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.

11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



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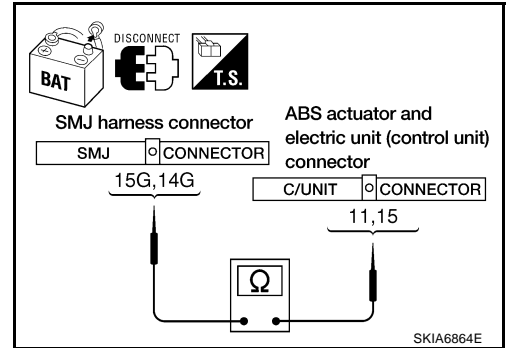
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.
14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



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

AKS00CFR

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 E205
 - Harness connector B5

OK or NG

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

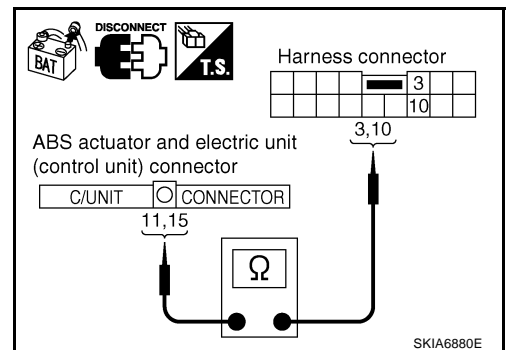
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and harness connector E205 terminals 3 (L), 10 (R).

11 (L) - 3 (L) : Continuity should exist.
15 (R) - 10 (R) : Continuity should exist.

OK or NG

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



3. CHECK HARNESS FOR OPEN CIRCUIT

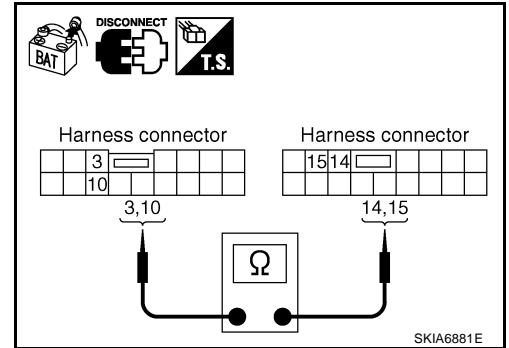
1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L), 10 (R) and harness connector B8 terminals 14 (L), 15 (R).

3 (L) - 14 (L) : Continuity should exist.

10 (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



AKS00CFS

ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

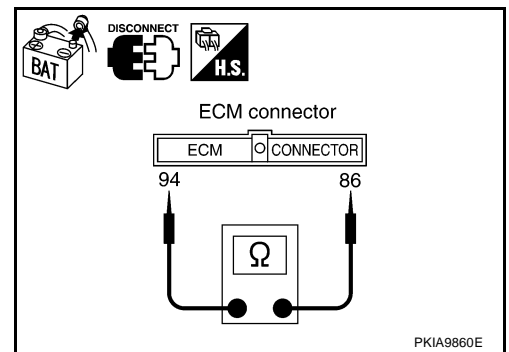
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and harness connector M82.



AKS00CFT

TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

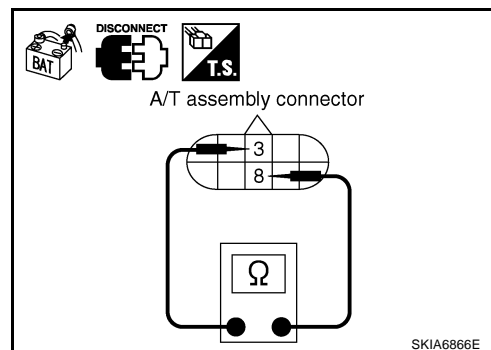
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



SKIA6866E

Display 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 unit for damage, bend and loose connection (unit side and harness side).

OK or NG

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

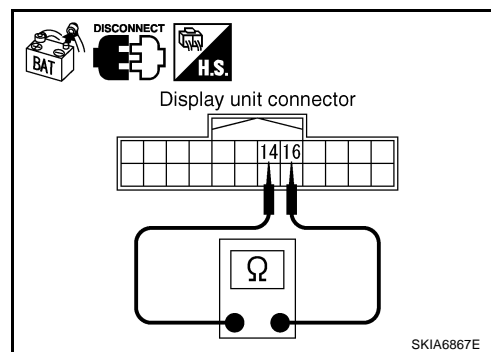
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display unit connector.
2. Check resistance between display unit harness connector M62 terminals 14 (L) and 16 (R).

14 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit and harness connector M82.



SKIA6867E

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

AKS00CFW

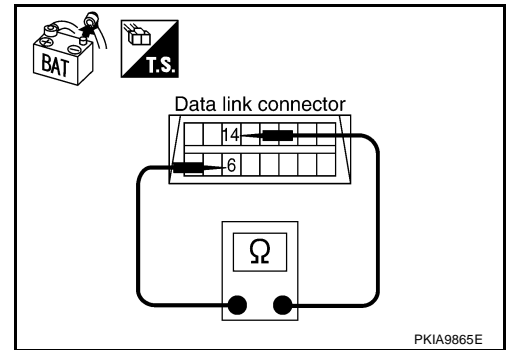
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and BCM.



BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

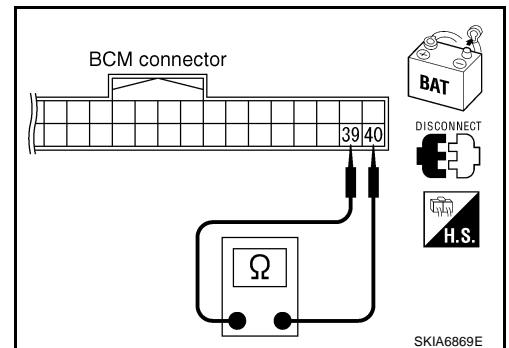
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and data link connector.



Steering Angle Sensor Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

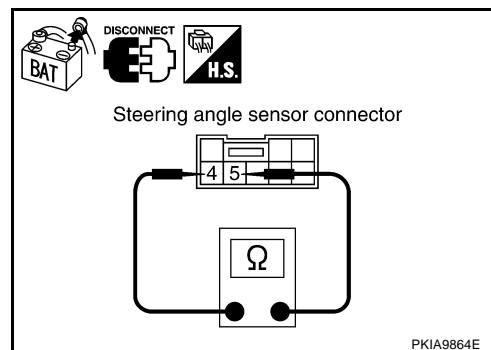
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



Unified Meter and A/C Amp. Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

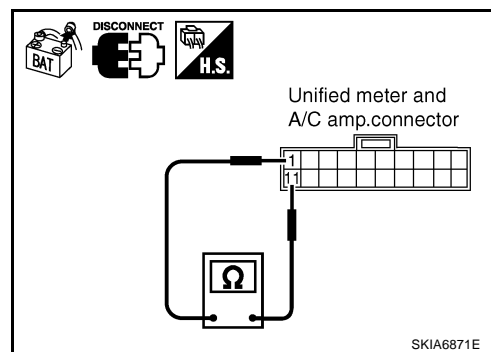
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



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.

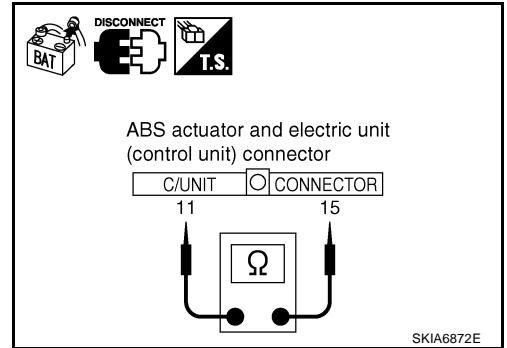
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

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 E205.



AKS00CG1

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 B151
 - Harness connector B8

OK or NG

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

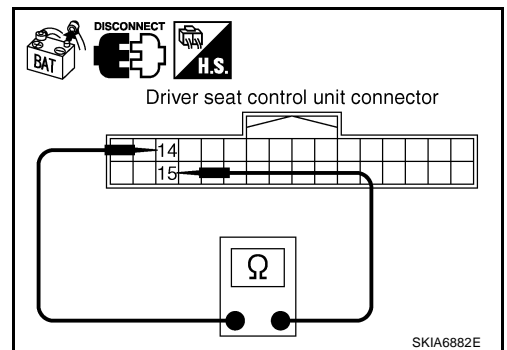
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Repair harness between driver seat control unit and harness connector B5.



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IPDM E/R Circuit Inspection

AKS00CG2

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).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

OK or NG

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

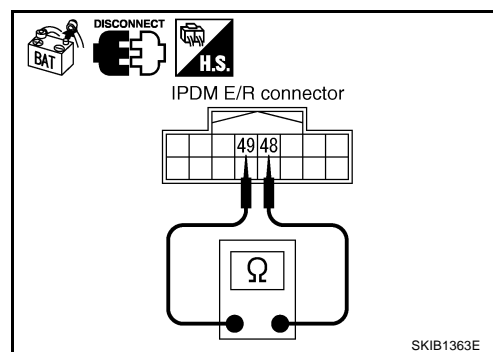
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R and harness connector B8.

**CAN Communication Circuit Inspection**

AKS00CG3

1. CHECK CONNECTOR

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

OK or NG

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

2. CHECK HARNESS FOR SHORT CIRCUIT

- Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display unit connector
 - BCM connector
 - Steering angle sensor connector
 - Unified meter and A/C amp. connector
 - Harness connector M41
- Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

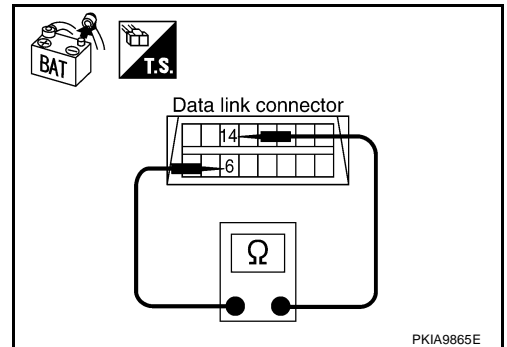
6 (L) - 14 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

6 (L) - Ground : Continuity should not exist.

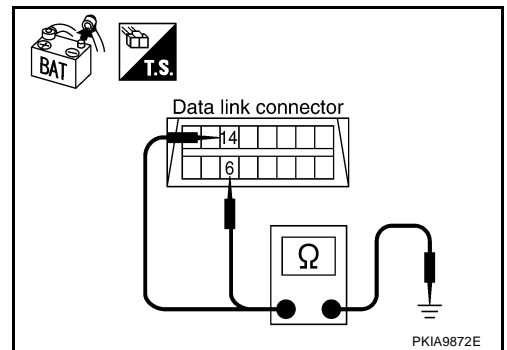
14 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



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4. CHECK HARNESS FOR SHORT CIRCUIT

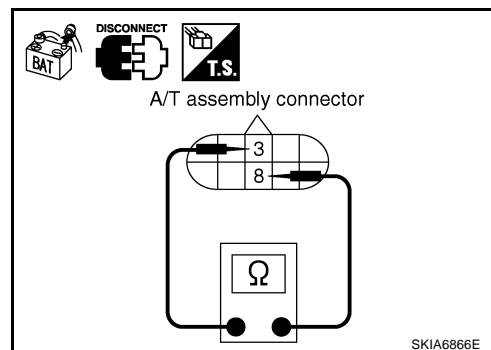
1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 5.

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



5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

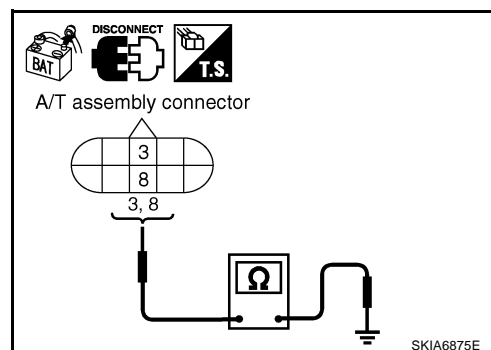
3 (L) - Ground : Continuity should not exist.

8 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 6.

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



6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

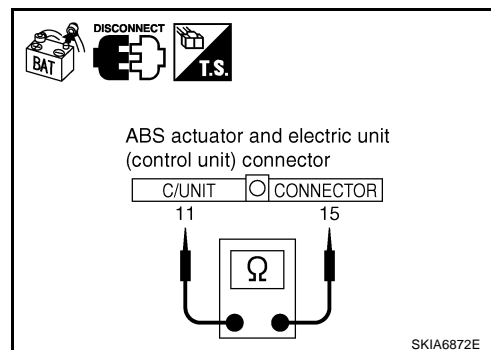
11 (L) - 15 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 7.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

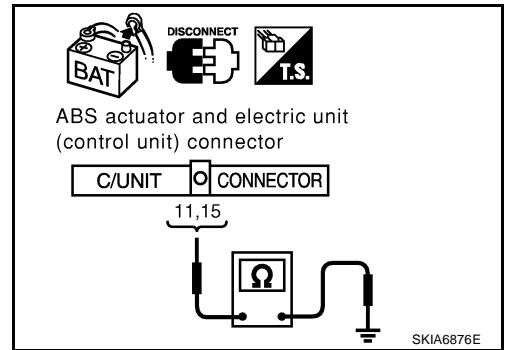
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 8.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

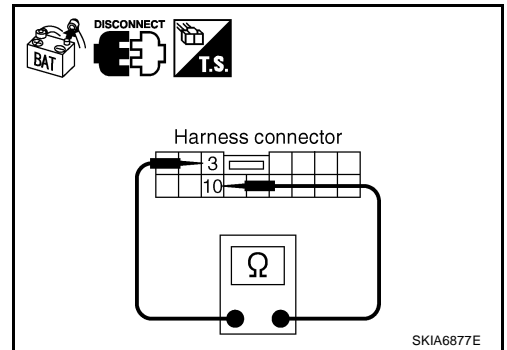
3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 9.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

3 (L) - Ground : Continuity should not exist.

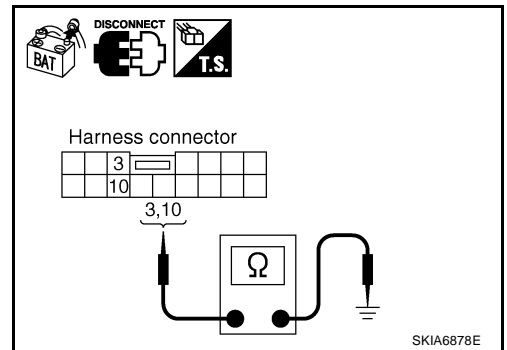
10 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



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LAN

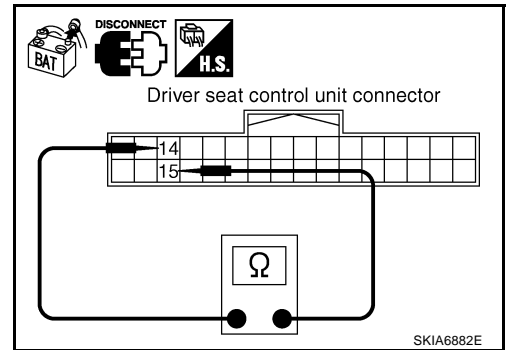
10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Continuity should not exist.

OK or NG

- OK >> GO TO 11.
 NG >> Repair harness between driver seat control unit and harness connector B151.



11. CHECK HARNESS FOR SHORT CIRCUIT

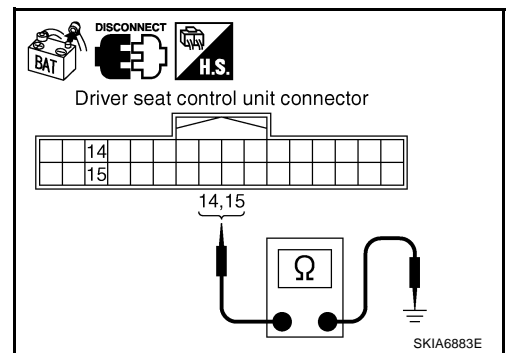
Check continuity between driver seat control unit harness connector B152 terminals 14 (OR), 15 (SB) and ground.

14 (OR) - Ground : Continuity should not exist.

15 (SB) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 12.
 NG >> Repair harness between driver seat control unit and harness connector B151.



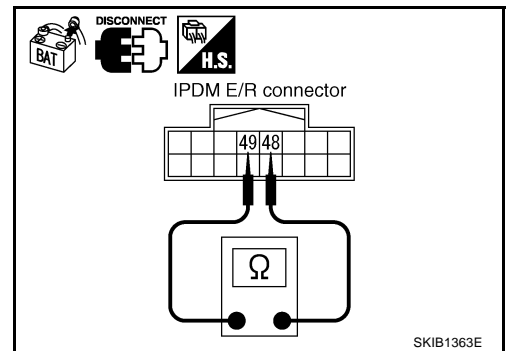
12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 13.
 NG >> Repair harness between IPDM E/R and harness connector E205.



13. CHECK HARNESS FOR SHORT CIRCUIT

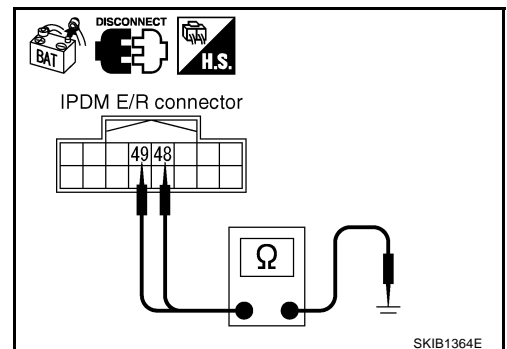
Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 14.
 NG >> Repair harness between IPDM E/R and harness connector E205.



14. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

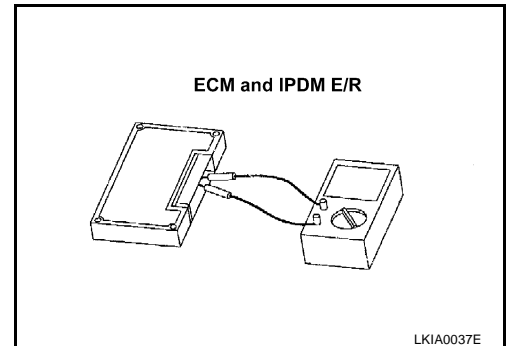
1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.
3. Check resistance between IPDM E/R terminals 48 and 49.

94 - 86 : Approx. 108 - 132Ω

48 - 49 : Approx. 108 - 132Ω

OK or NG

- OK >> GO TO 15.
 NG >> Replace ECM and/or IPDM E/R.



15. 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 16.
 NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

16. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

IPDM E/R Ignition Relay Circuit Inspection

AKS00CG4

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-12, "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START" "](#) .

CAN SYSTEM (TYPE 2)

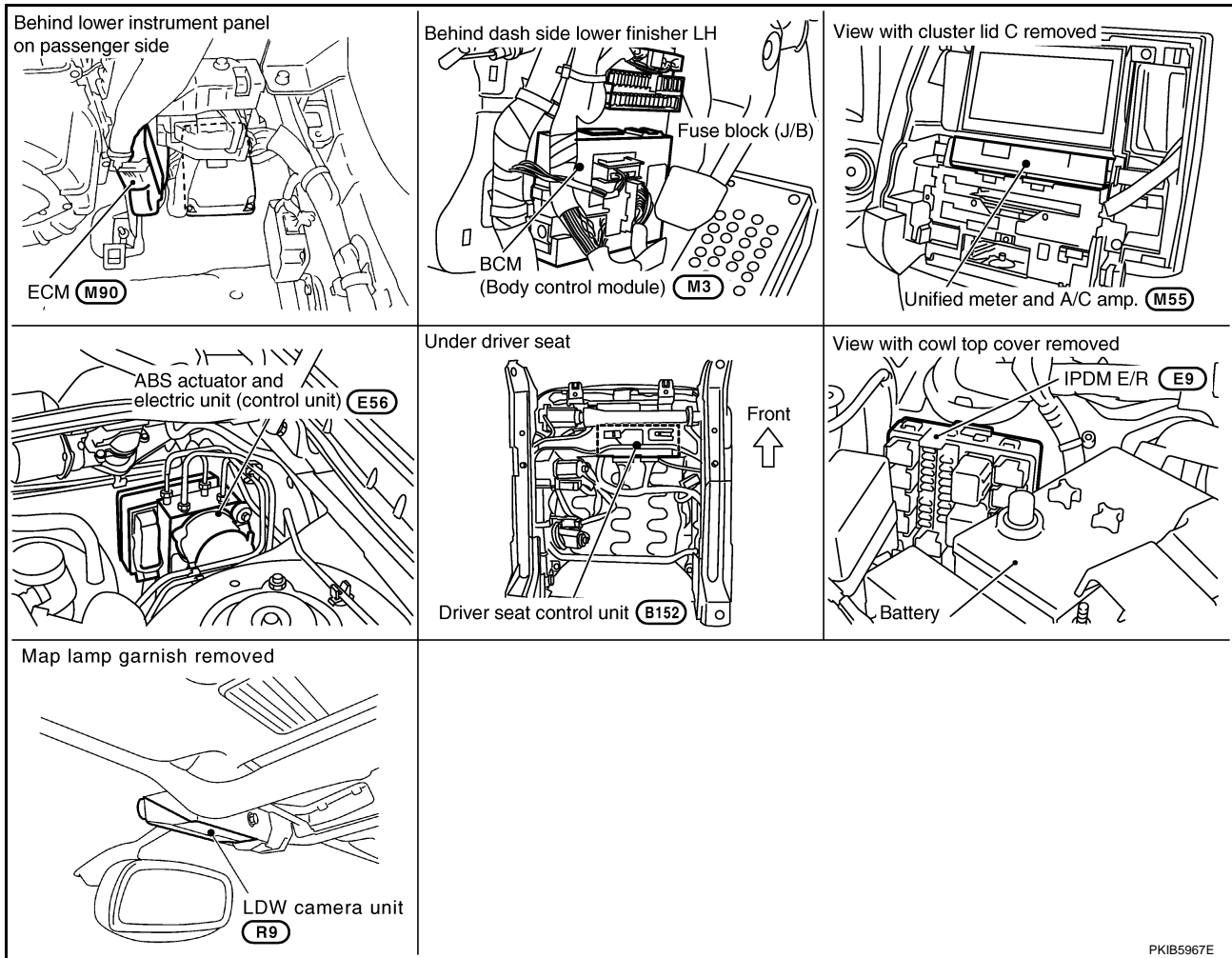
[CAN]

CAN SYSTEM (TYPE 2)

PFP:23710

Component Parts and Harness Connector Location

AKS00CEY



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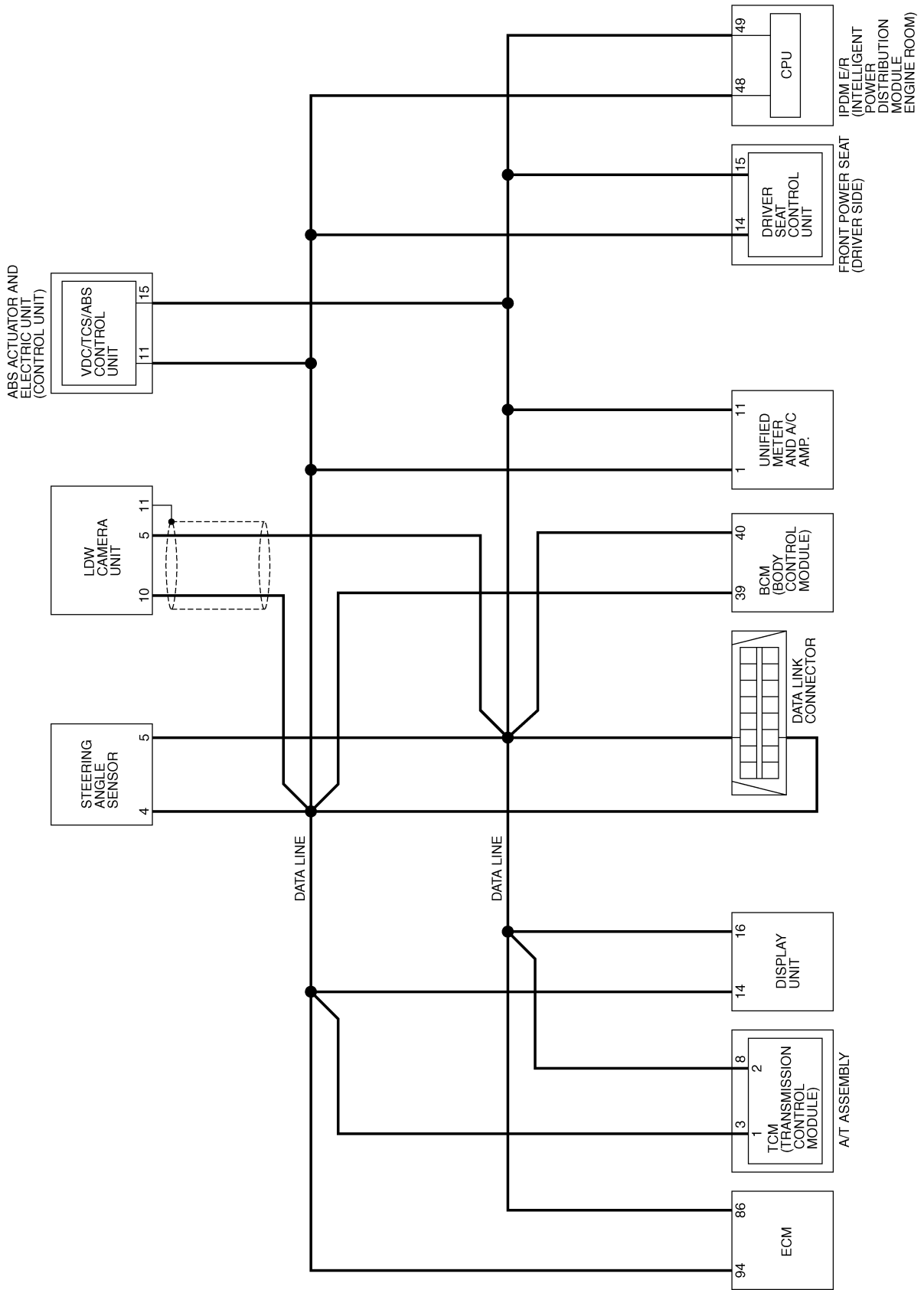
LAN

CAN SYSTEM (TYPE 2)

[CAN]

Schematic

AKS00CEZ



TKWM2351E

CAN SYSTEM (TYPE 2)

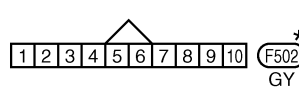
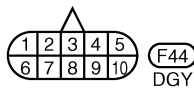
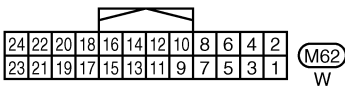
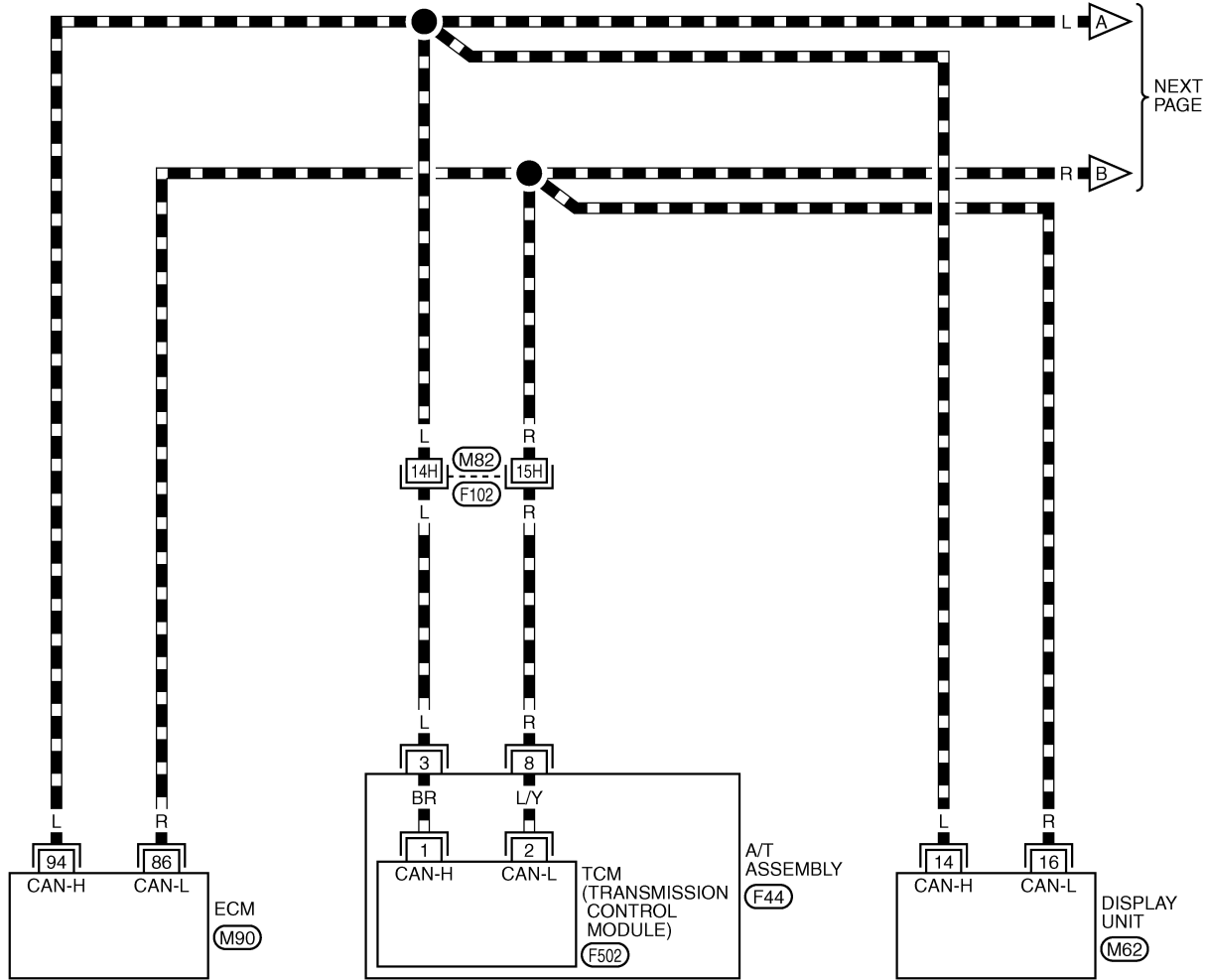
[CAN]

Wiring Diagram - CAN -

AKS00CF0

LAN-CAN-04

DATA LINE



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

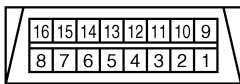
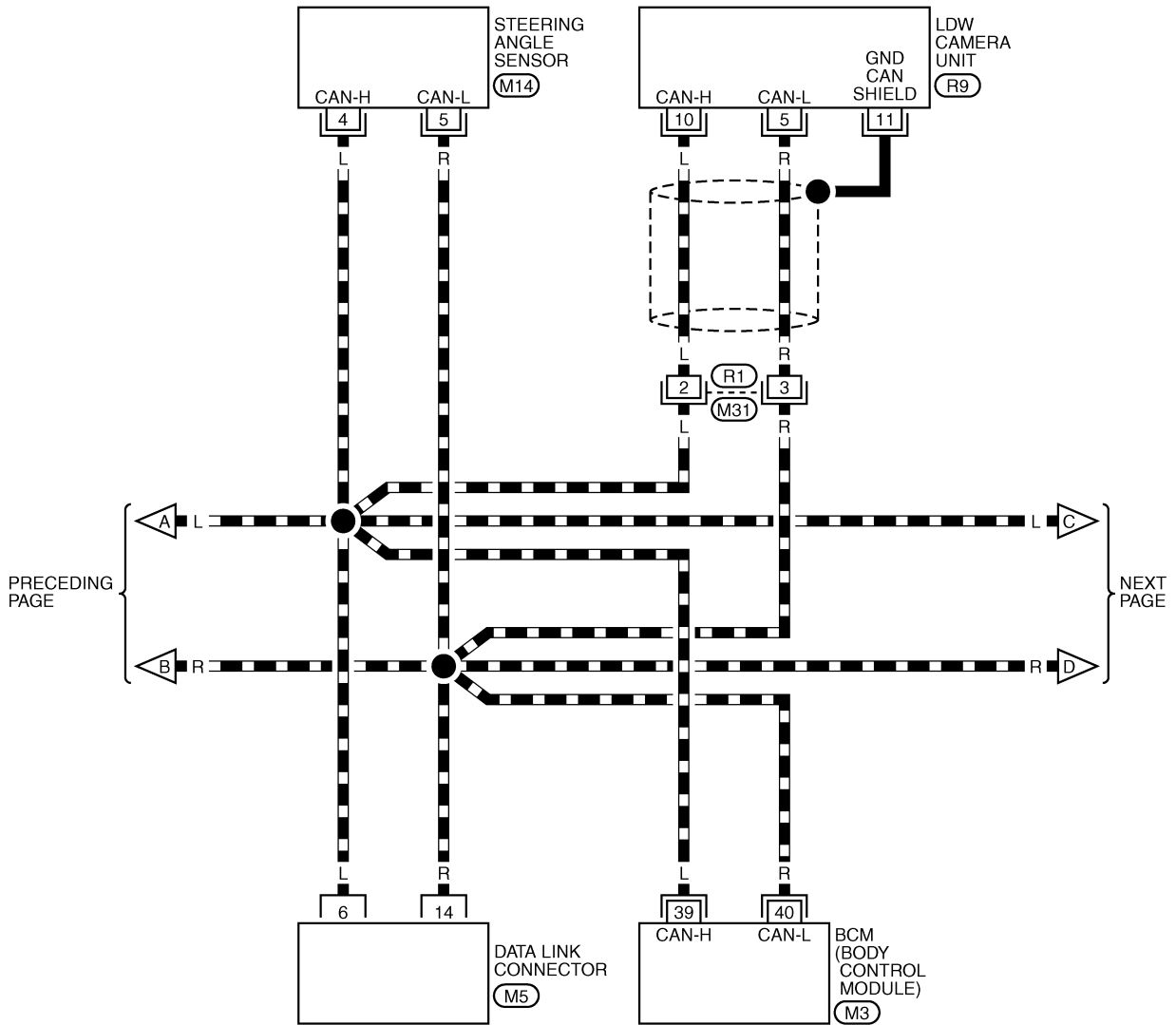
(M90) -ELECTRICAL UNITS

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

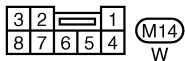
TKWM2352E

LAN-CAN-05

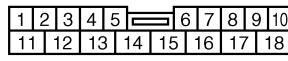
▬ : DATA LINE



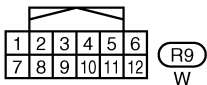
(M5)
W



(M14)
W



(M31)
W



(R9)
W

REFER TO THE FOLLOWING.
(M3) -ELECTRICAL UNITS

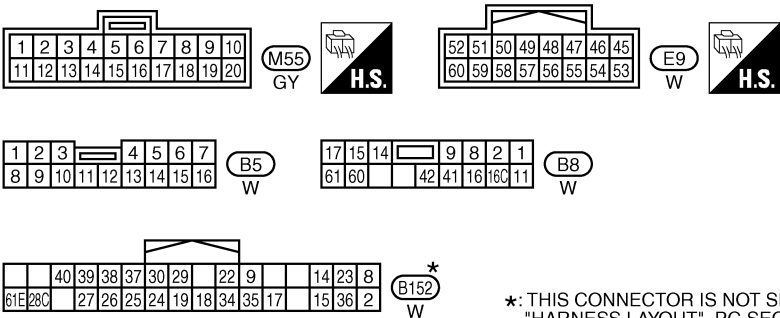
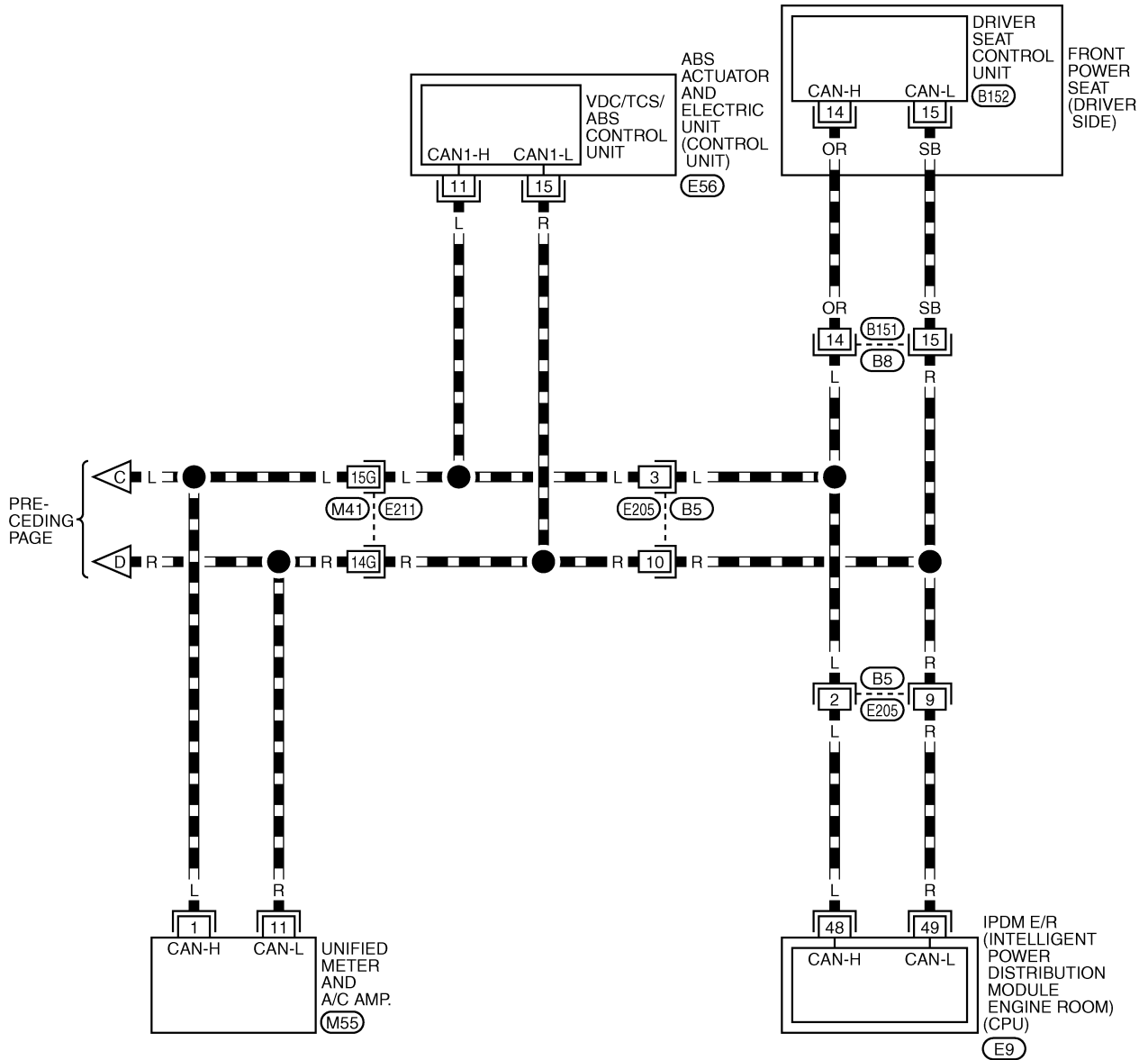
TKWM2353E

CAN SYSTEM (TYPE 2)

[CAN]

LAN-CAN-06

DATA LINE



REFER TO THE FOLLOWING.

- (E211) -SUPER MULTIPLE JUNCTION (SMJ)
- (E56) -ELECTRICAL UNITS

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

TKWM2354E

CAN SYSTEM (TYPE 2)

[CAN]

AKS00CF1

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

PKIB4356E

CAN SYSTEM (TYPE 2)

[CAN]

Display unit Translation Sheet: Rewrite the following names, and put a check mark on the check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CANCOMM	Initial diagnosis	CAN5	METER/M&A
CAN1	Transmit diagnosis	CAN6	—
CAN2	BCM/SEC	CAN7	IPDM E/R
CAN3	ECM	CAN8	—
CAN4	—	CAN9	—

Attach copy of
display unit
CAN DIAG MONITOR check sheet

PKIB5984E

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CAN SYSTEM (TYPE 2)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
LDW
SELF-DIAG RESULTS

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

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
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
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
LDW
CAN DIAG SUPPORT
MNTR

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

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIB4357E

CAN SYSTEM (TYPE 2)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

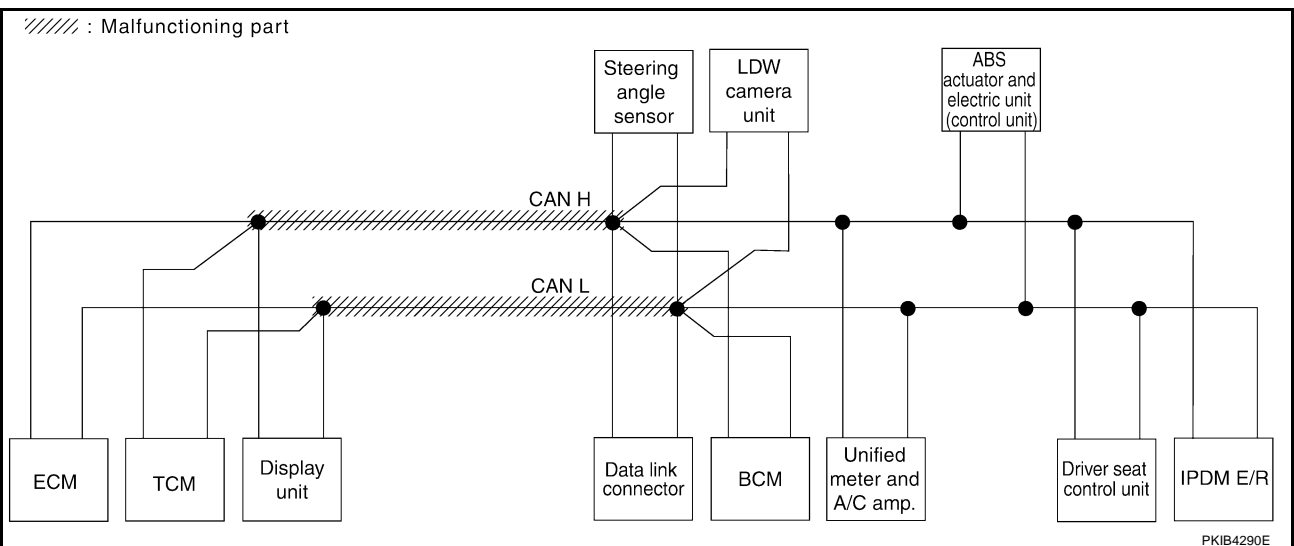
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to [LAN-110, "Inspection Between TCM and Data Link Connector Circuit"](#).

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

PKIB4423E



PKIB4290E

CAN SYSTEM (TYPE 2)

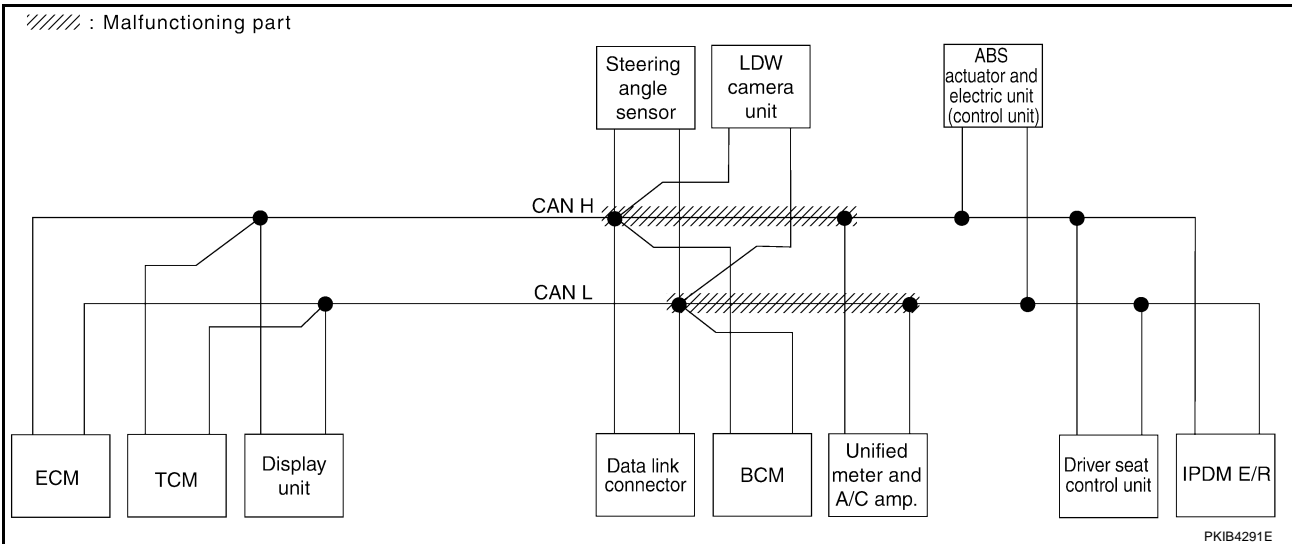
[CAN]

Case 2

Check harness between data link connector and unified meter and A/C amp. Refer to [LAN-111, "Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit"](#) .

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

PKIB4424E



PKIB4291E

CAN SYSTEM (TYPE 2)

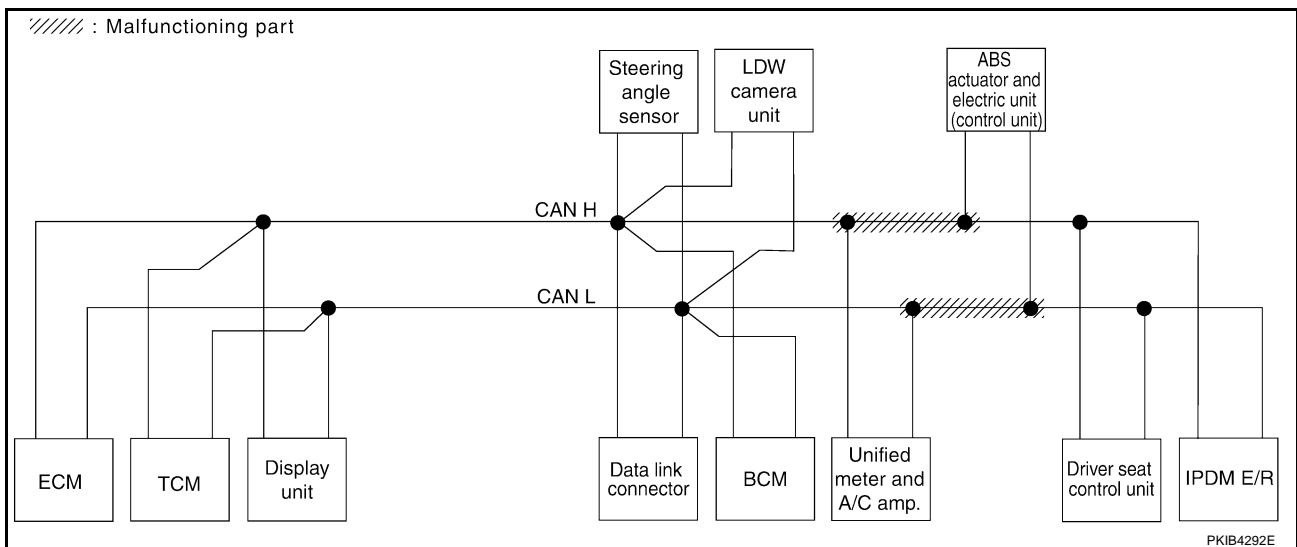
[CAN]

Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to [LAN-111, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

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

SKIB7295E



PKIB4292E

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CAN SYSTEM (TYPE 2)

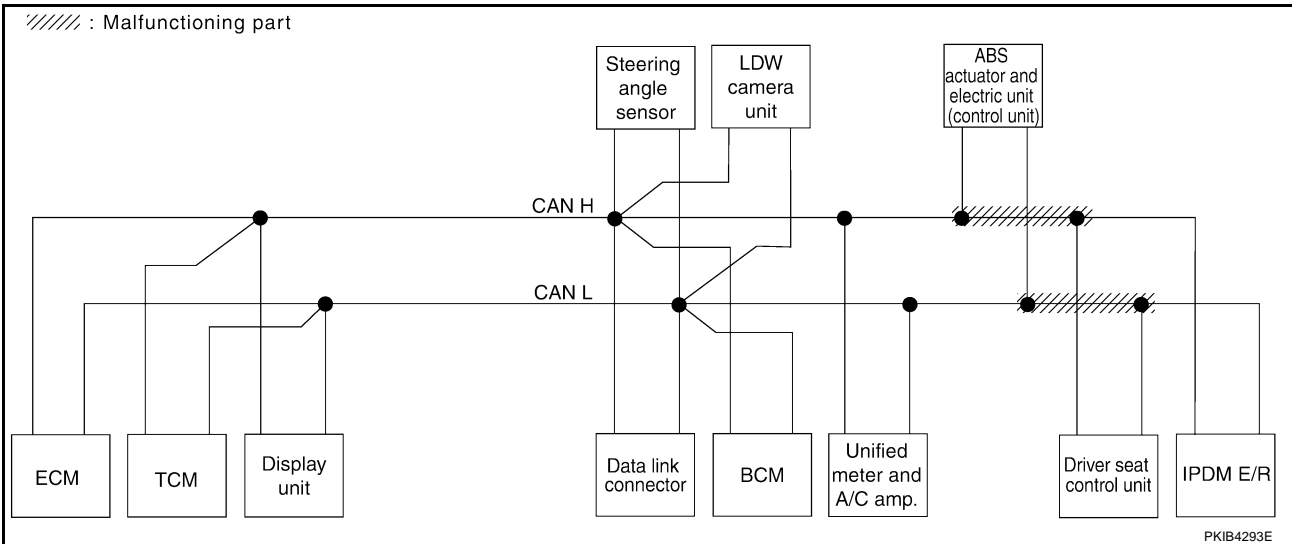
[CAN]

Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to [LAN-112, "Inspection Between ABS Actuator and Electric Unit \(Control Unit\) and Driver Seat Control Unit Circuit"](#).

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

PKIB4426E



PKIB4293E

CAN SYSTEM (TYPE 2)

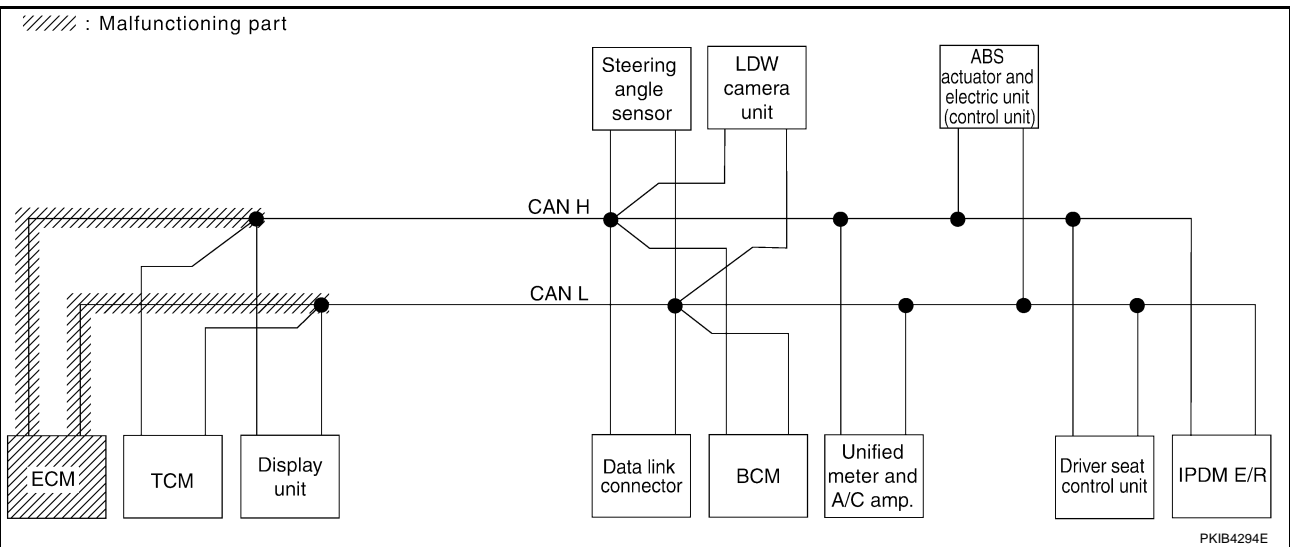
[CAN]

Case 5

Check ECM circuit. Refer to [LAN-113, "ECM Circuit Inspection"](#) .

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

PKIB4427E



PKIB4294E

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CAN SYSTEM (TYPE 2)

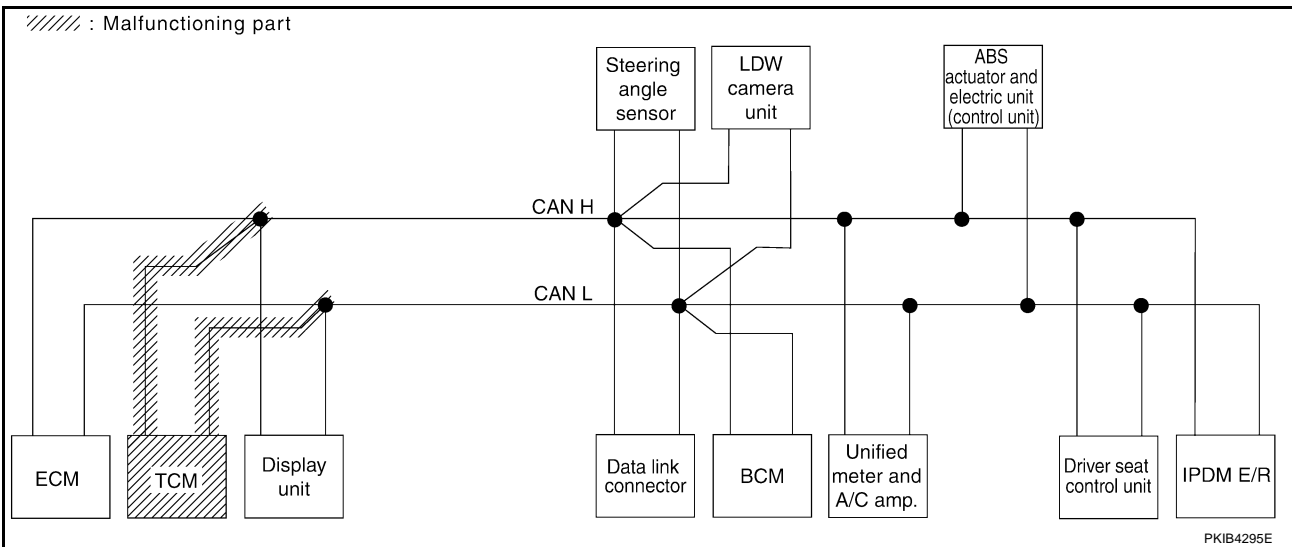
[CAN]

Case 6

Check TCM circuit. Refer to [LAN-113, "TCM Circuit Inspection"](#) .

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

PKIB4428E



PKIB4295E

CAN SYSTEM (TYPE 2)

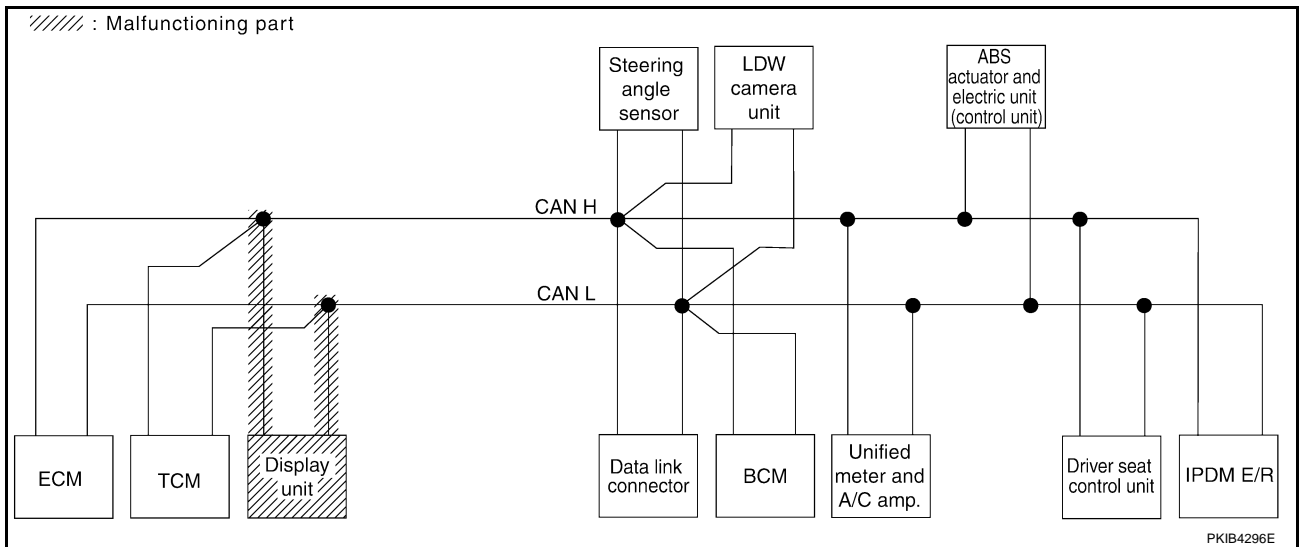
[CAN]

Case 7

Check display unit circuit. Refer to [LAN-114, "Display Unit Circuit Inspection"](#) .

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

PKIB4429E



PKIB4296E

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CAN SYSTEM (TYPE 2)

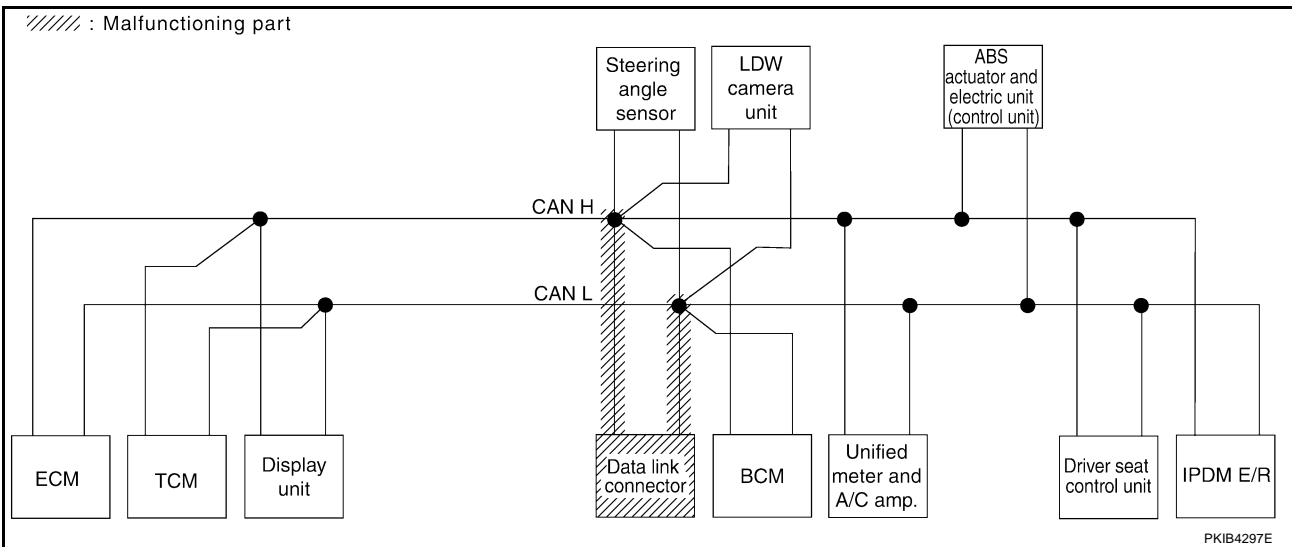
[CAN]

Case 8

Check data link connector circuit. Refer to [LAN-114, "Data Link Connector Circuit Inspection"](#) .

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

PKIB4430E



PKIB4297E

CAN SYSTEM (TYPE 2)

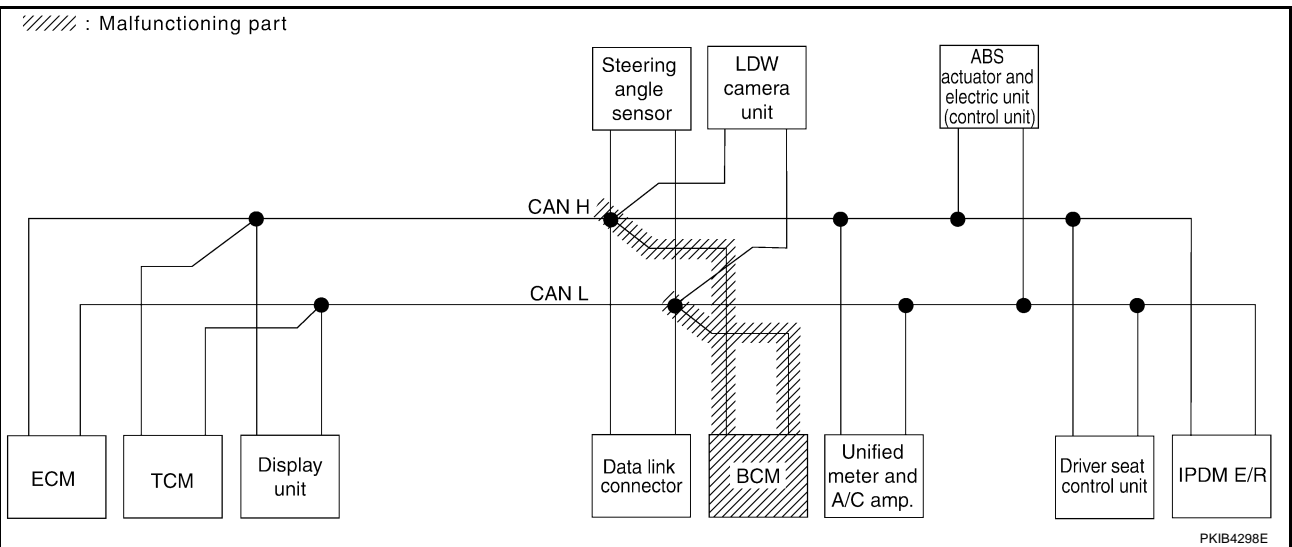
[CAN]

Case 9

Check BCM circuit. Refer to [LAN-115, "BCM Circuit Inspection"](#) .

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

PKIB4431E



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CAN SYSTEM (TYPE 2)

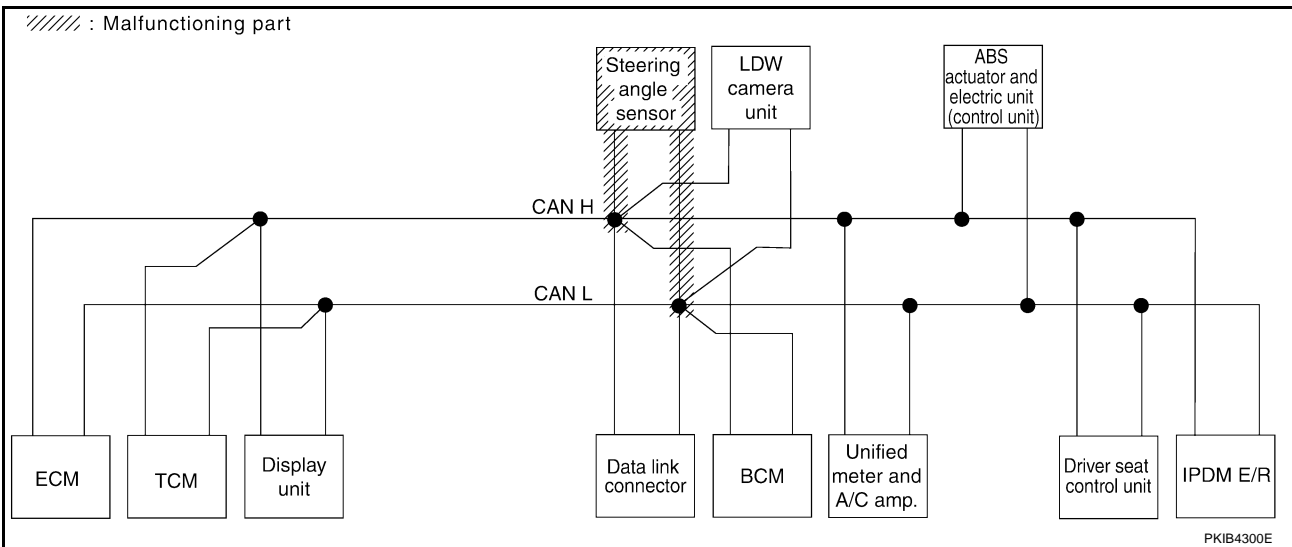
[CAN]

Case 10

Check steering angle sensor circuit. Refer to [LAN-115, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIB4432E



PKIB4300E

CAN SYSTEM (TYPE 2)

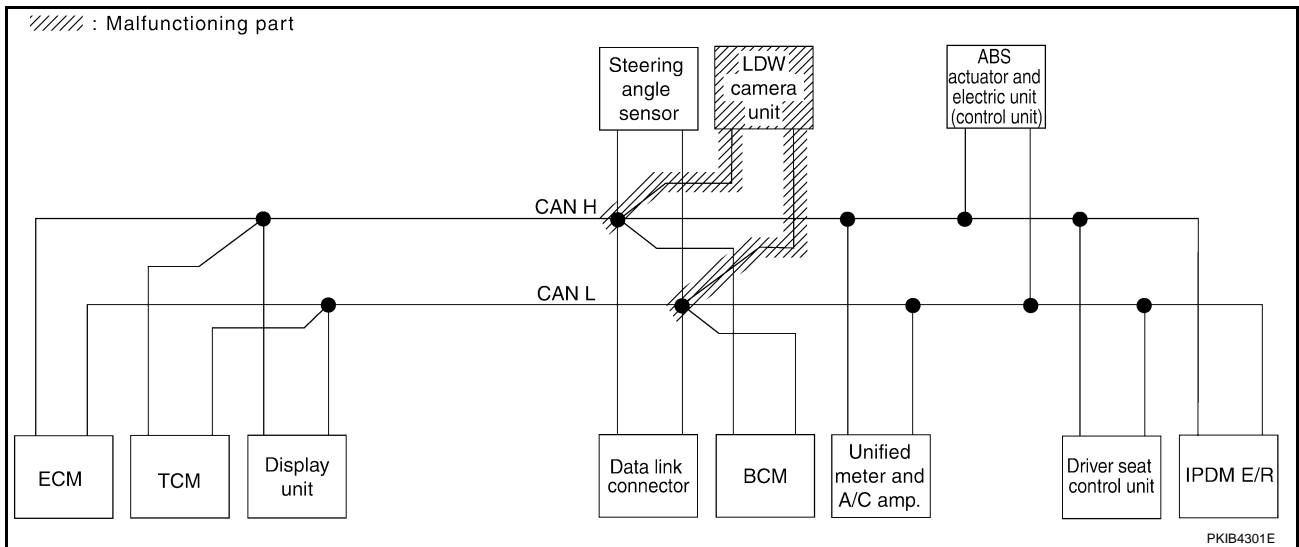
[CAN]

Case 11

Check LDW camera unit circuit. Refer to [LAN-116, "LDW Camera Unit Circuit Inspection"](#) .

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

PKIB4433E



PKIB4301E

CAN SYSTEM (TYPE 2)

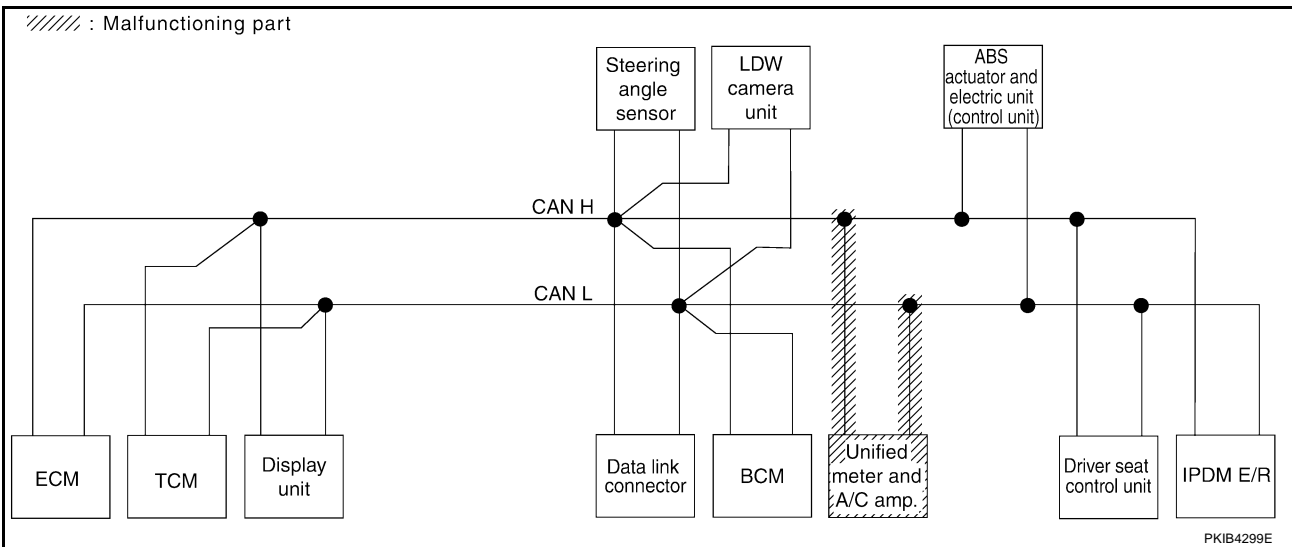
[CAN]

Case 12

Check unified meter and A/C amp. circuit. Refer to [LAN-117, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

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

PKIB4434E



PKIB4299E

CAN SYSTEM (TYPE 2)

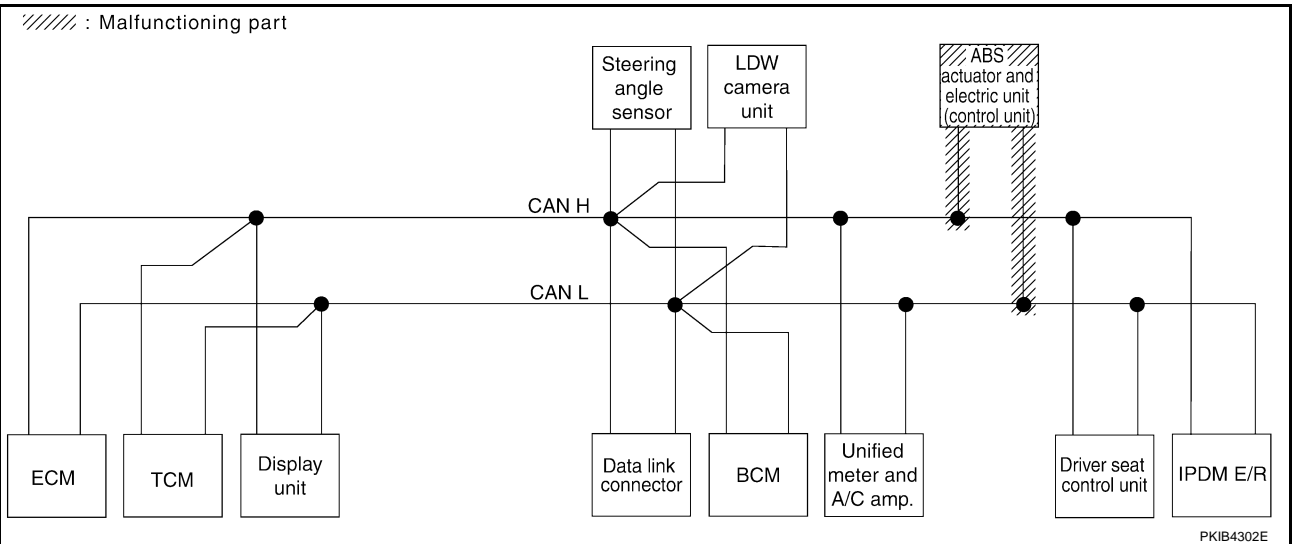
[CAN]

Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-117, "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	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	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)	—
Display unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	✓	✓	✓	✓	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4435E



PKIB4302E

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CAN SYSTEM (TYPE 2)

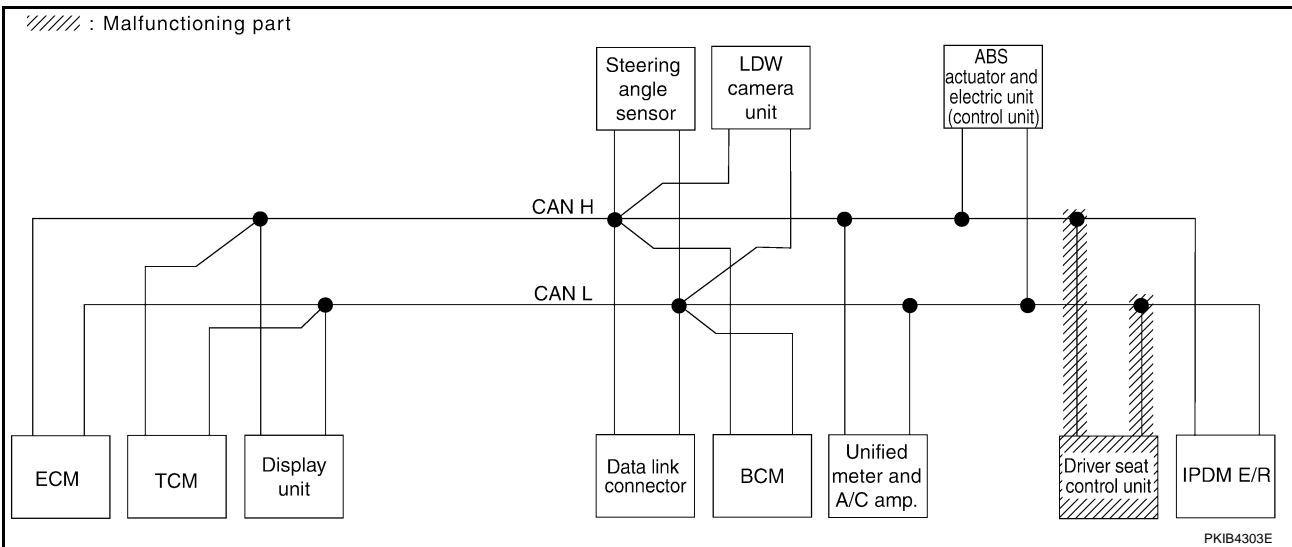
[CAN]

Case 14

Check driver seat control unit circuit. Refer to [LAN-118, "Driver Seat Control Unit Circuit Inspection"](#) .

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

PKIB4436E



PKIB4303E

CAN SYSTEM (TYPE 2)

[CAN]

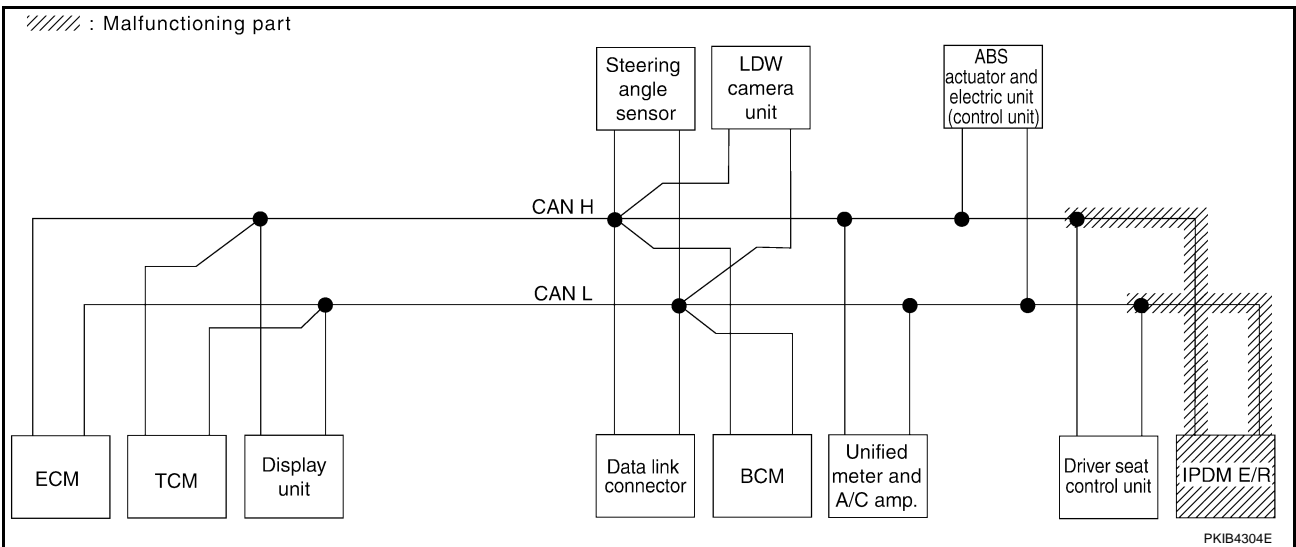
Case 15

Check IPDM E/R circuit. Refer to [LAN-118, "IPDM E/R Circuit Inspection"](#) .

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

PKIB4437E



PKIB4304E

CAN SYSTEM (TYPE 2)

[CAN]

Case 16

Check CAN communication circuit. Refer to [LAN-119, "CAN Communication Circuit Inspection"](#) .

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

PKIB4438E

CAN SYSTEM (TYPE 2)

[CAN]

Case 17

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-125, "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	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	UNKWN	—	✓	—	UNKWN	—	UNKWN	UNKWN	UNKWN	✓	✓
A/T	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	✓	—	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	✓	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4439E

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Case 18

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-125, "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	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
Display unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4440E

Inspection Between TCM and Data Link Connector Circuit

AKS00CF2

1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

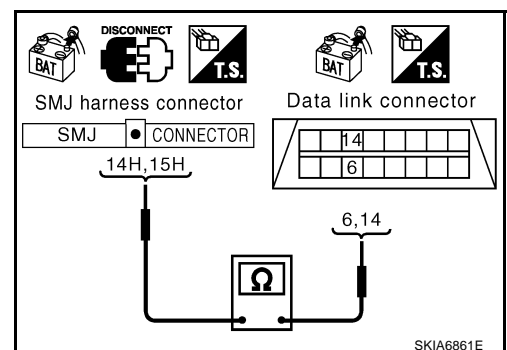
14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .

NG >> Repair harness.



Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

AKS00CF3

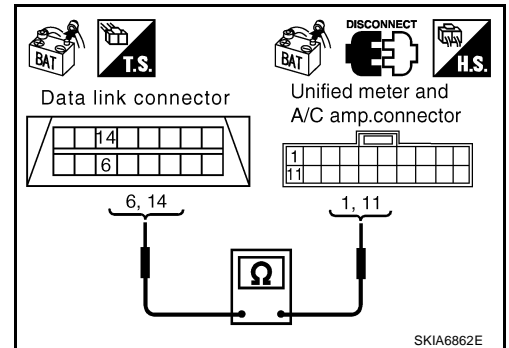
1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.
14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

AKS00CF4

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 M41
 - Harness connector E211

OK or NG

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

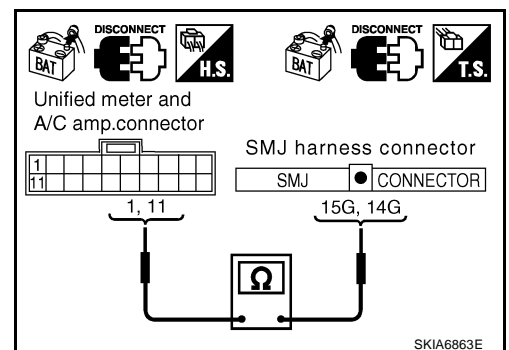
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.
11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



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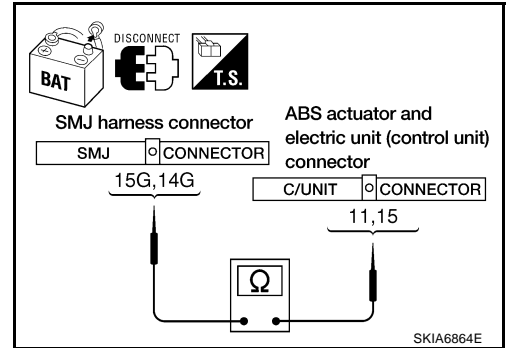
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.
14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



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

AKS00CF5

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 E205
 - Harness connector B5

OK or NG

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

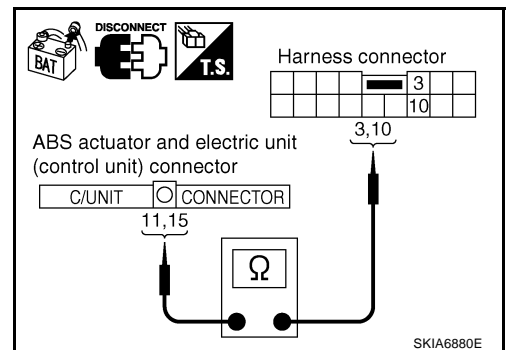
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and harness connector E205 terminals 3 (L), 10 (R).

11 (L) - 3 (L) : Continuity should exist.
15 (R) - 10 (R) : Continuity should exist.

OK or NG

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



3. CHECK HARNESS FOR OPEN CIRCUIT

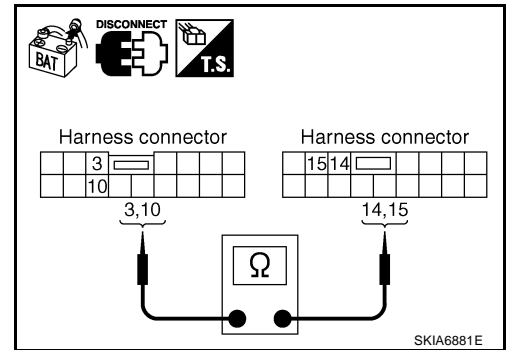
1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L), 10 (R) and harness connector B8 terminals 14 (L), 15 (R).

3 (L) - 14 (L) : Continuity should exist.

10 (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

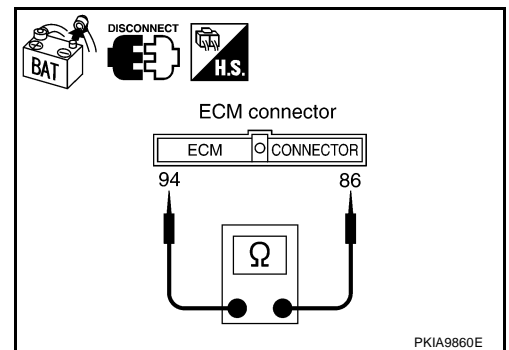
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and harness connector M82.



TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

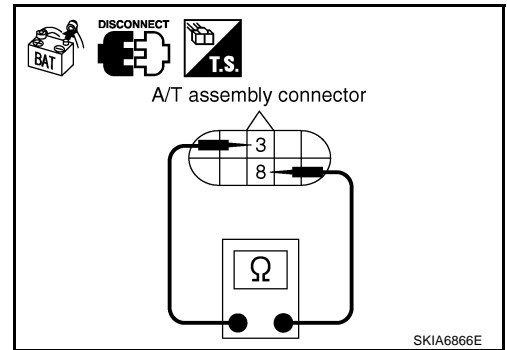
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



SKIA6866E

Display 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 unit for damage, bend and loose connection (unit side and harness side).

OK or NG

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

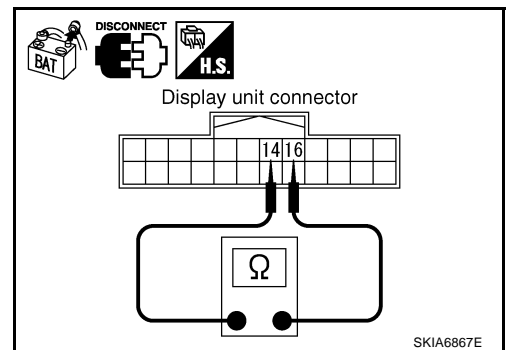
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display unit connector.
2. Check resistance between display unit harness connector M62 terminals 14 (L) and 16 (R).

14 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit and harness connector M82.



SKIA6867E

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

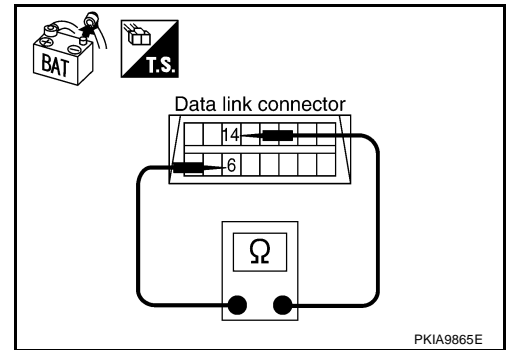
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Repair harness between data link connector and BCM.



BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

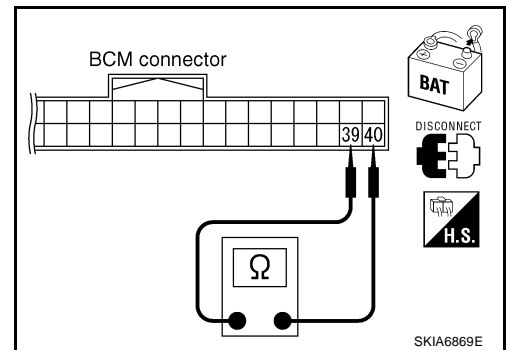
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#) .
- NG >> Repair harness between BCM and data link connector.



Steering Angle Sensor Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

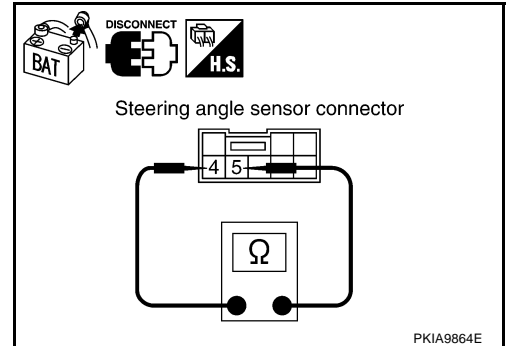
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



LDW Camera 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 (unit side and harness side).
 - LDW camera unit connector
 - Harness connector R1
 - Harness connector M31

OK or NG

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

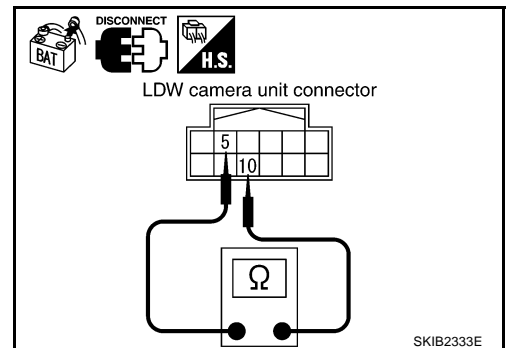
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check resistance between LDW camera unit harness connector R9 terminals 10 (L) and 5 (R).

10 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace LDW camera unit.
 NG >> GO TO 3.



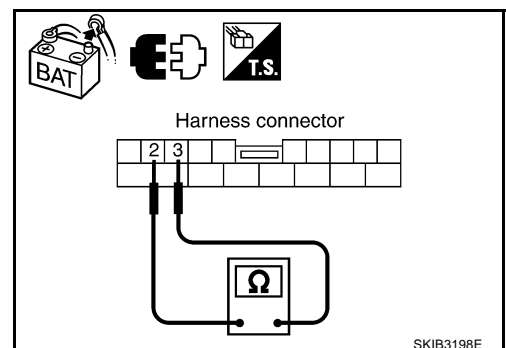
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector R1.
2. Check resistance between harness connector M31 terminals 2 (L) and 3 (R).

2 (L) - 3 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
 NG >> Replace harness between LDW camera unit and harness connector R1.



Unified Meter and A/C Amp. Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

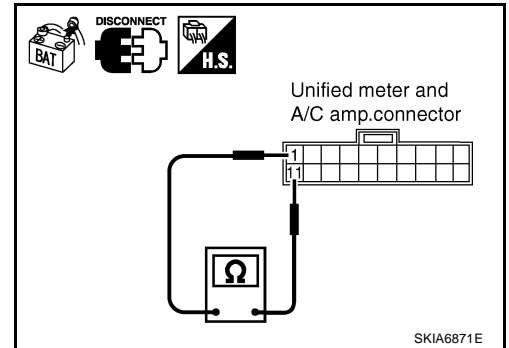
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



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.

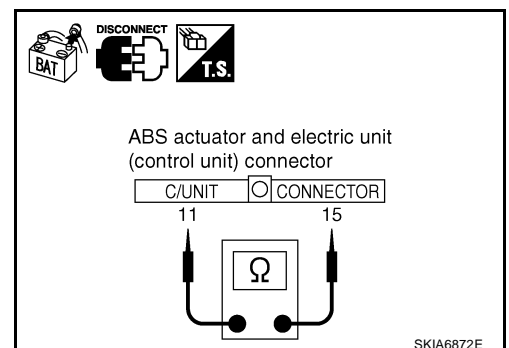
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

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 E205.



Driver Seat Control Unit Circuit Inspection

AKS00CFG

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 B151
 - Harness connector B8

OK or NG

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

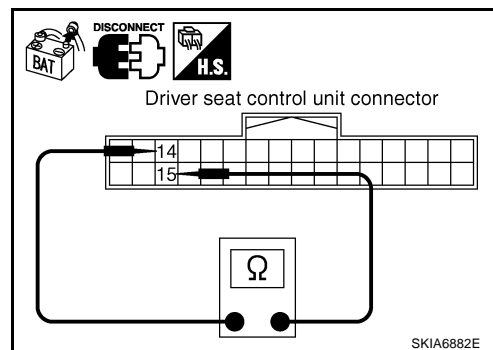
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit and harness connector B5.



AKS00CFH

IPDM E/R Circuit Inspection**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

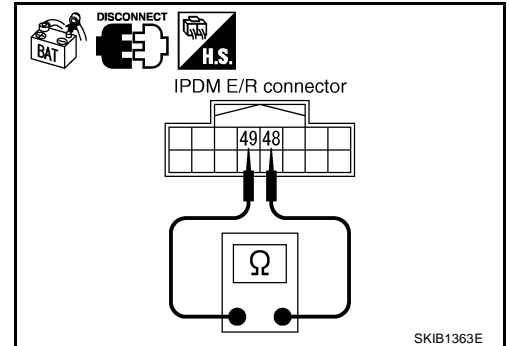
1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R and harness connector B8.



AKS00CFI

CAN Communication Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

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2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display unit connector
 - BCM connector
 - Steering angle sensor connector
 - Harness connector M31
 - Unified meter and A/C amp. connector
 - Harness connector M41
2. Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

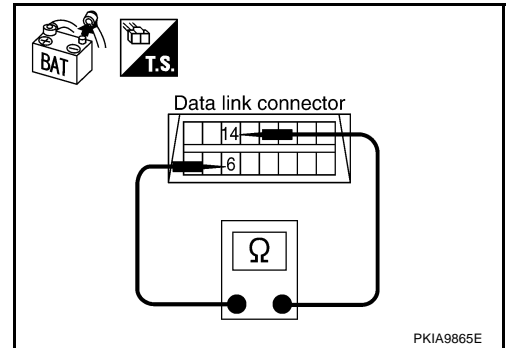
6 (L) - 14 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and harness connector M31
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

6 (L) - Ground : Continuity should not exist.

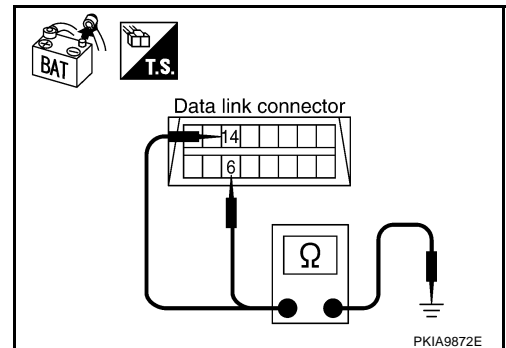
14 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and harness connector M31
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



4. CHECK HARNESS FOR SHORT CIRCUIT

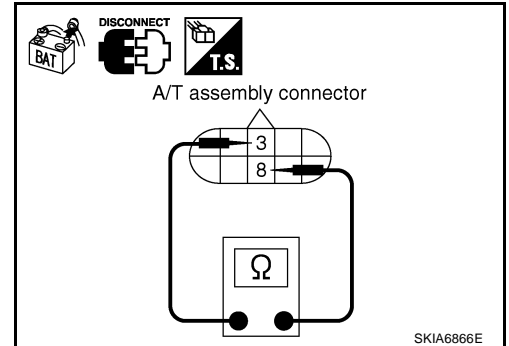
1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 5.

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



5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

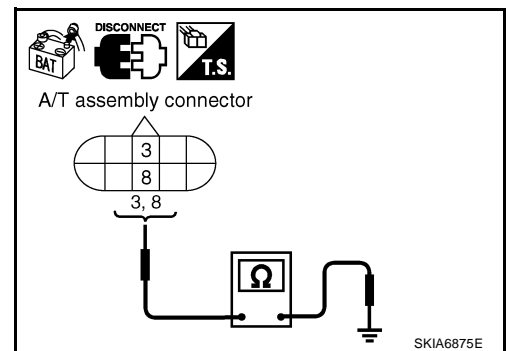
3 (L) - Ground : Continuity should not exist.

8 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 6.

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



6. CHECK HARNESS FOR SHORT CIRCUIT

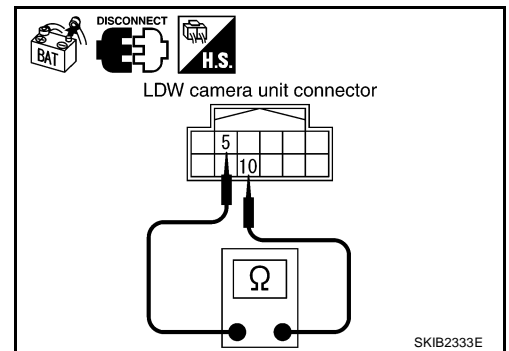
1. Disconnect LDW camera unit connector.
2. Check continuity between LDW camera unit harness connector R9 terminals 10 (L) and 5 (R).

10 (L) - 5 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 7.

NG >> Replace harness between LDW camera unit and harness connector R1.



7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between LDW camera unit harness connector R9 terminals 10 (L), 5 (R) and ground.

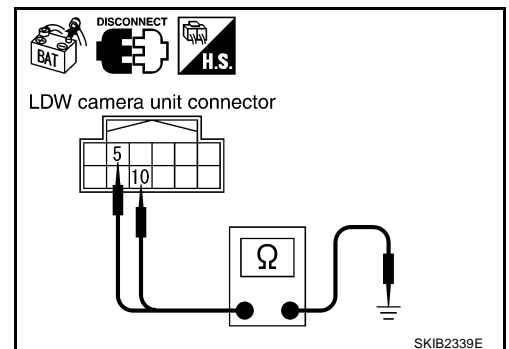
10 (L) - Ground : Continuity should not exist.

5 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 8.

NG >> Replace harness between LDW and harness connector R1.



8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

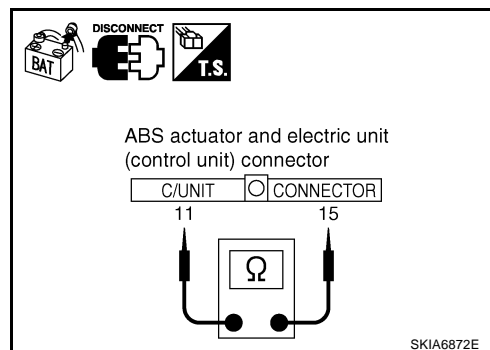
11 (L) - 15 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 9.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

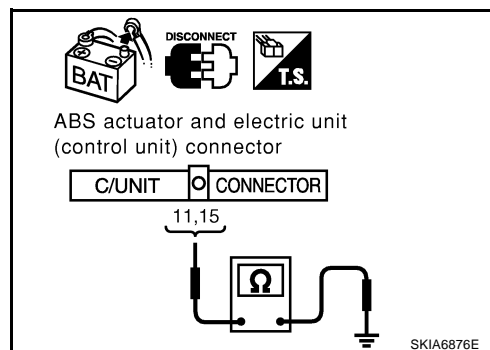
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

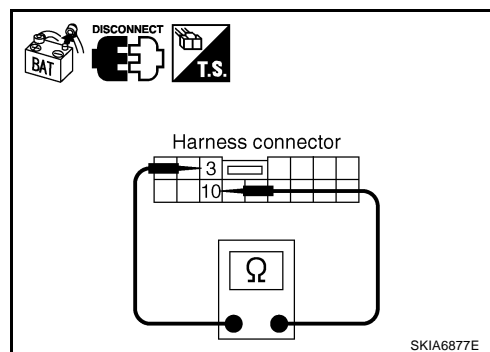
3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 11.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



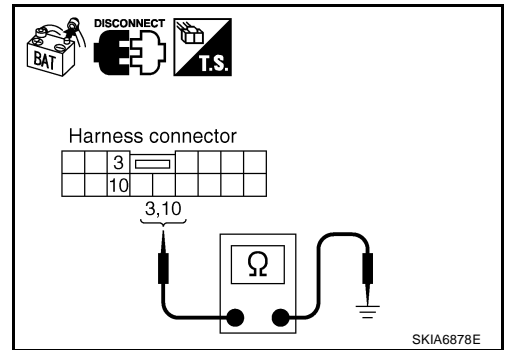
11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

- 3 (L) - Ground : Continuity should not exist.**
- 10 (R) - Ground : Continuity should not exist.**

OK or NG

- OK >> GO TO 12.
- NG >> Check the following harnesses. If any harness is damaged, repair the harness.
 - Harness between harness connector B5 and harness connector B8
 - Harness between harness connector B5 and harness connector B5



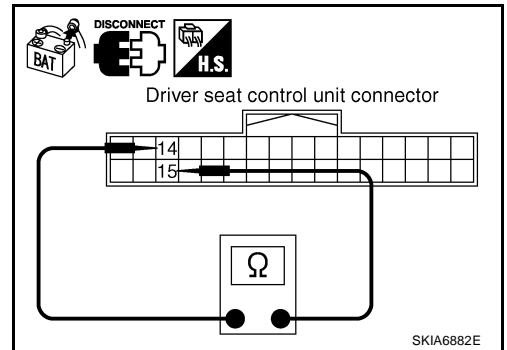
12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

- 14 (OR) - 15 (SB) : Continuity should not exist.**

OK or NG

- OK >> GO TO 13.
- NG >> Repair harness between driver seat control unit and harness connector B151.



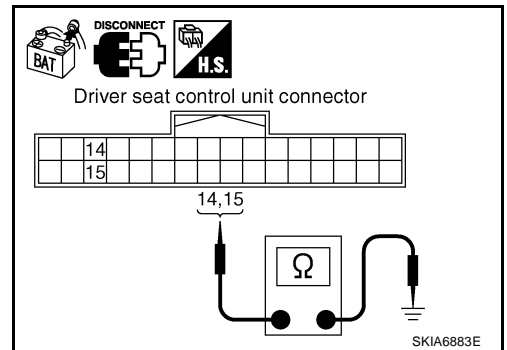
13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector B152 terminals 14 (OR), 15 (SB) and ground.

- 14 (OR) - Ground : Continuity should not exist.**
- 15 (SB) - Ground : Continuity should not exist.**

OK or NG

- OK >> GO TO 14.
- NG >> Repair harness between driver seat control unit and harness connector B151.



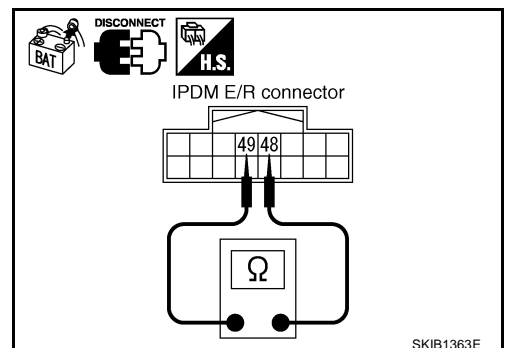
14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

- 48 (L) - 49 (R) : Continuity should not exist.**

OK or NG

- OK >> GO TO 15.
- NG >> Repair harness between IPDM E/R and harness connector E205.



15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

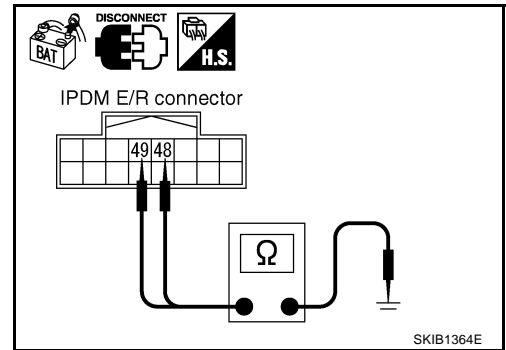
48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 16.

NG >> Repair harness between IPDM E/R and harness connector E205.



16. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω

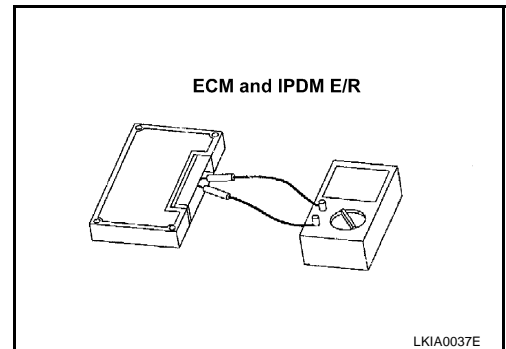
3. Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

OK or NG

OK >> GO TO 17.

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



17. CHECK SYMPTOM

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

OK or NG

OK >> GO TO 18.

NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

18. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

IPDM E/R Ignition Relay Circuit Inspection

AKS00CFJ

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-12, "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START" "](#) .

LAN

CAN SYSTEM (TYPE 3)

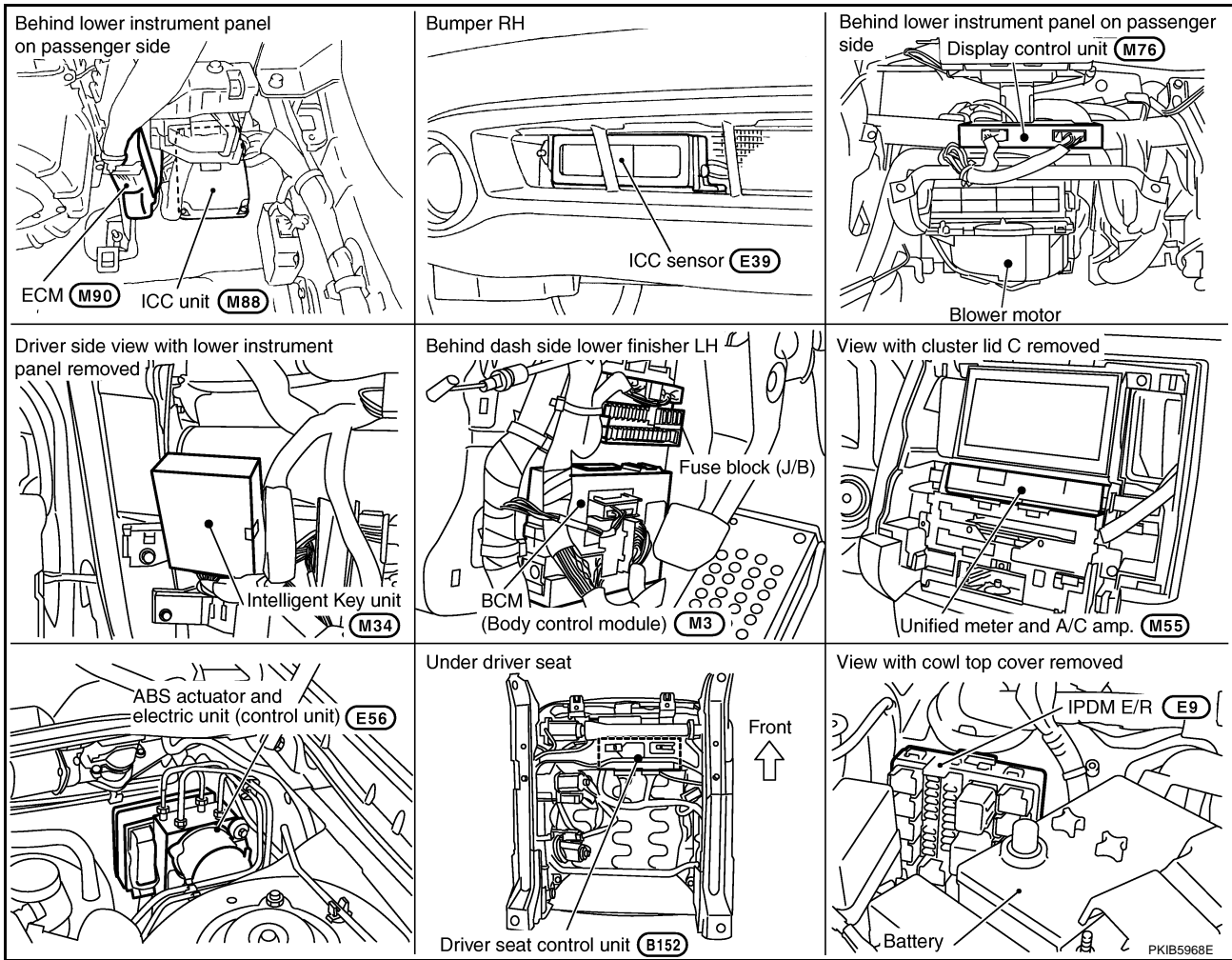
[CAN]

PFP:23710

AKS00CEA

CAN SYSTEM (TYPE 3)

Component Parts and Harness Connector Location

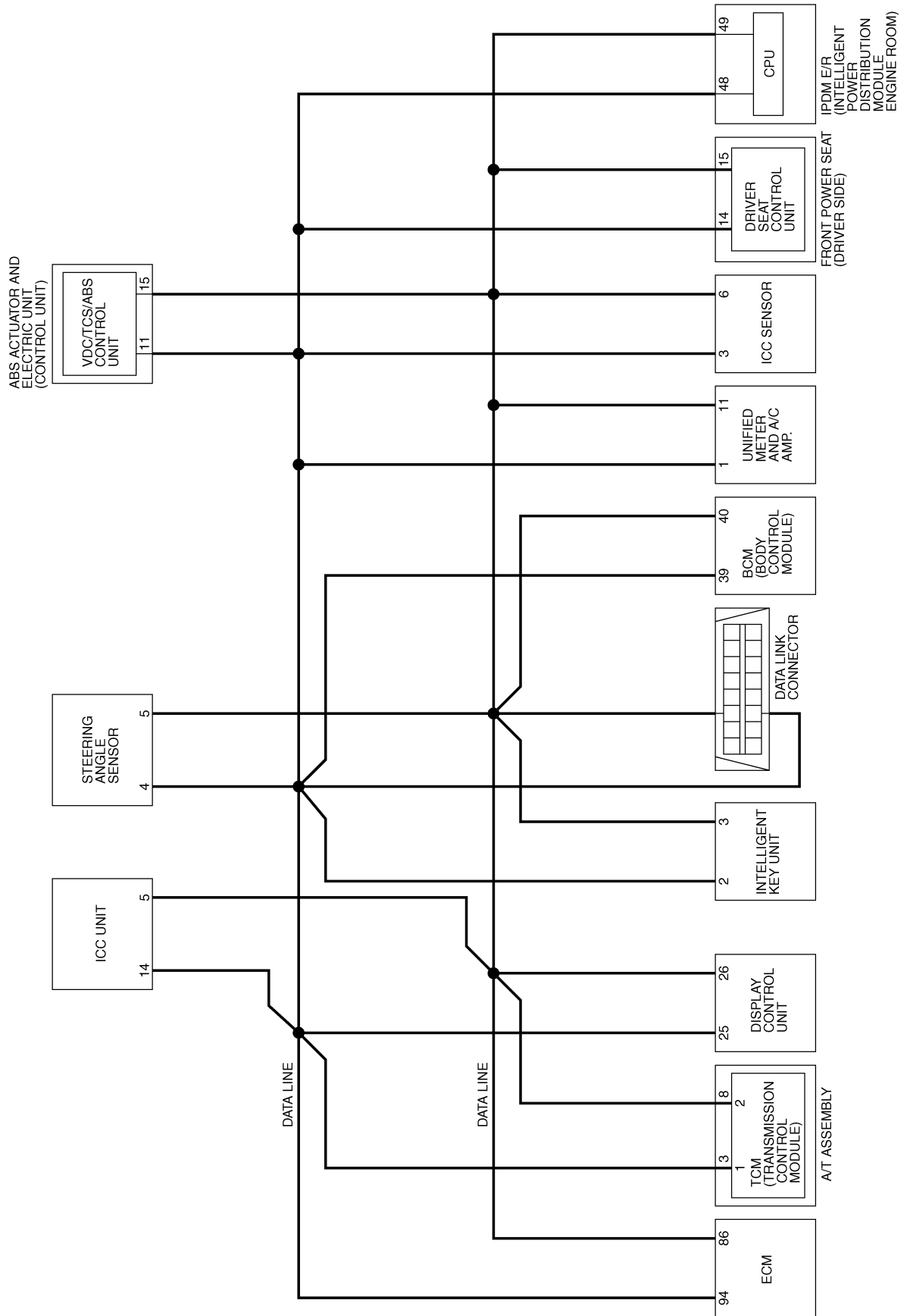


CAN SYSTEM (TYPE 3)

[CAN]

Schematic

AKS00CEB



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TKWM2355E

CAN SYSTEM (TYPE 3)

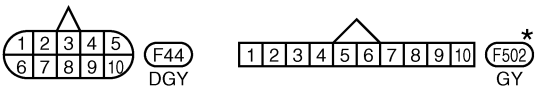
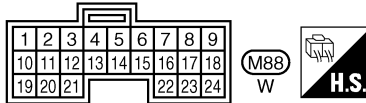
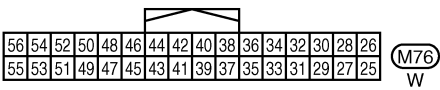
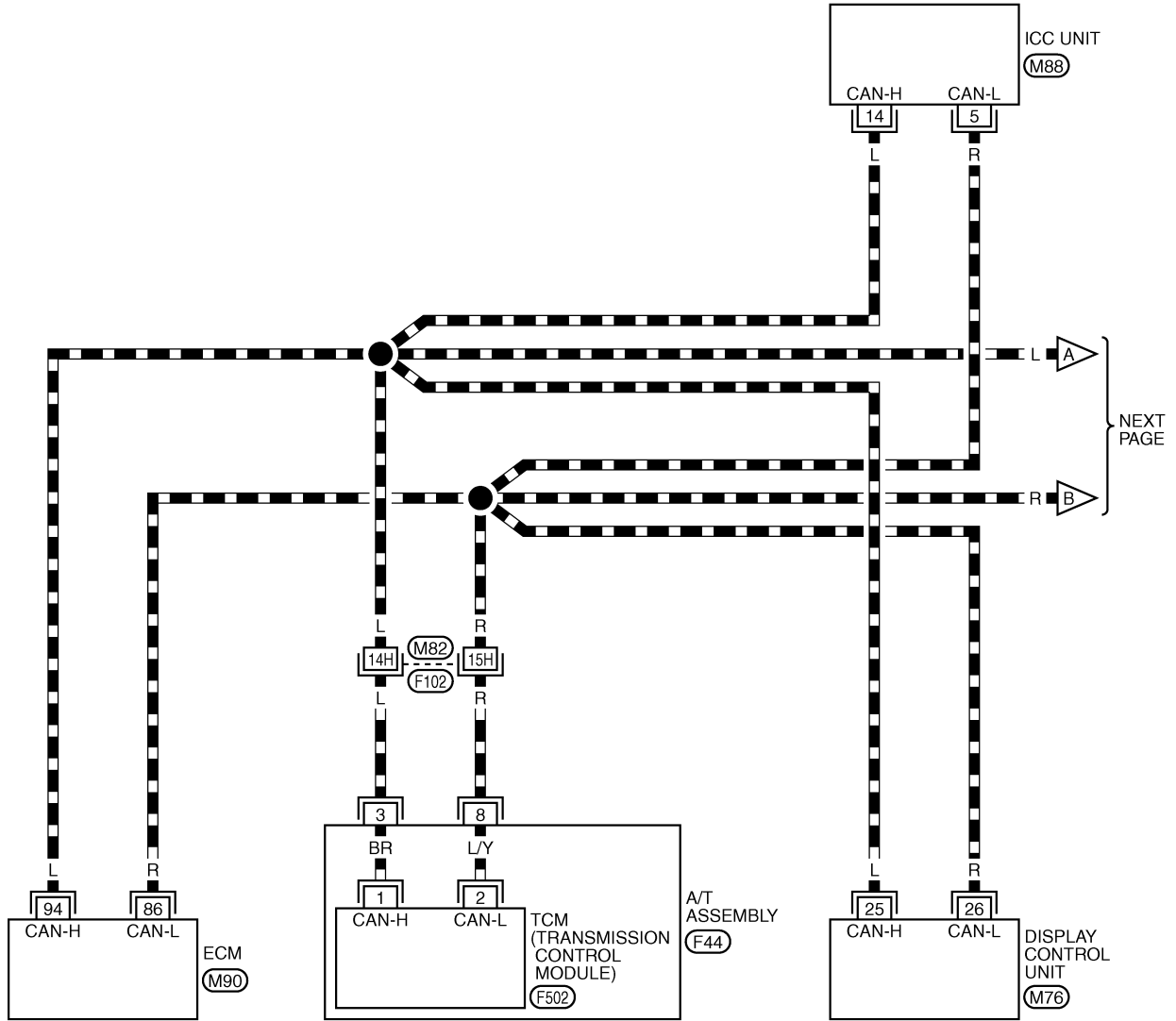
[CAN]

AKS00CEC

Wiring Diagram - CAN -

LAN-CAN-07

▬ : DATA LINE



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

REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M90) -ELECTRICAL UNITS

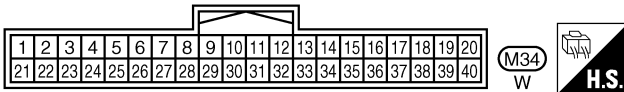
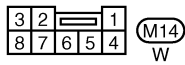
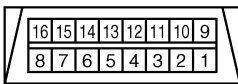
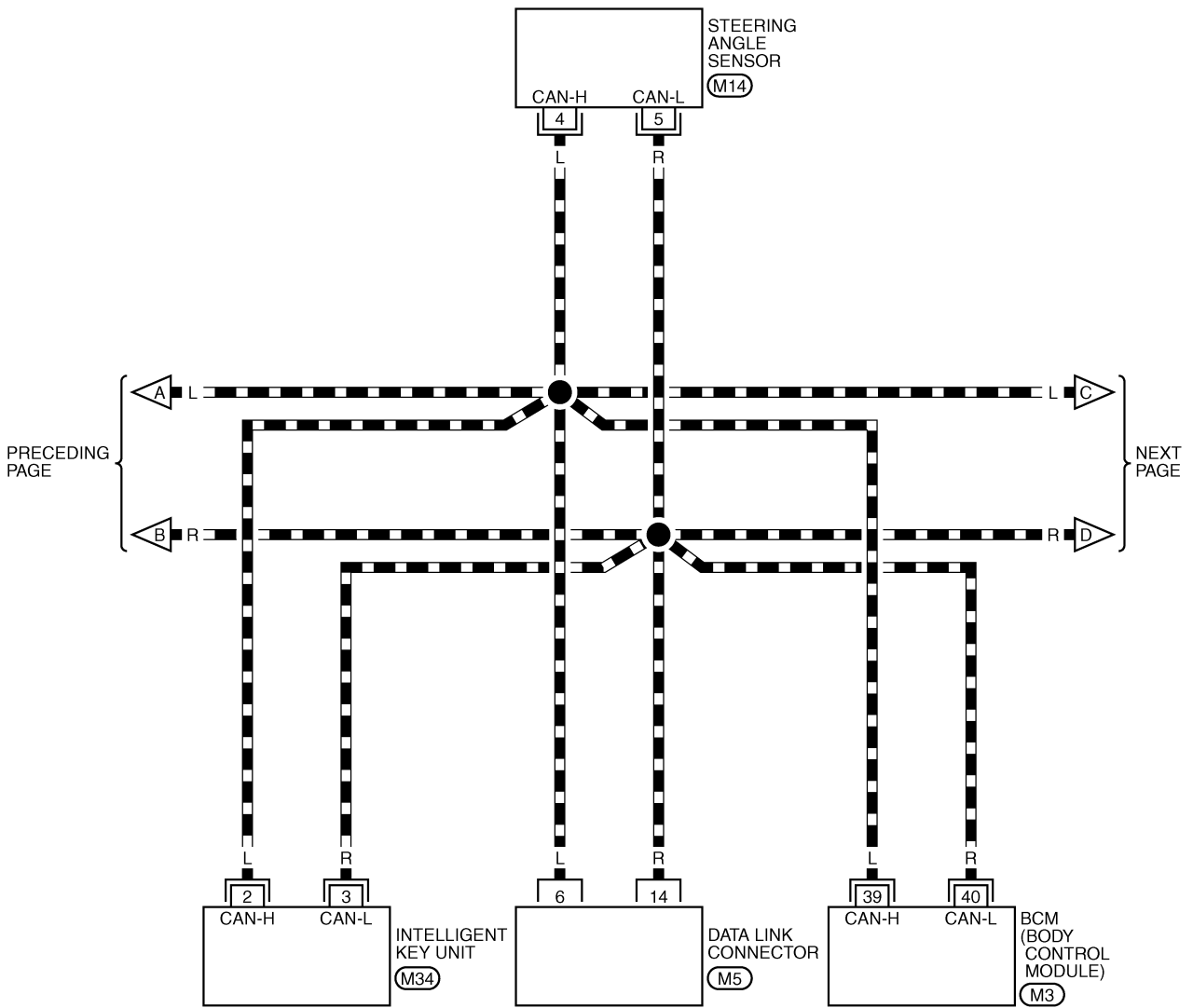
TKWM2356E

CAN SYSTEM (TYPE 3)

[CAN]

LAN-CAN-08

▬ : DATA LINE

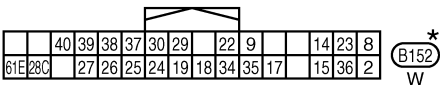
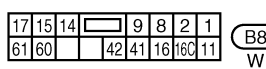
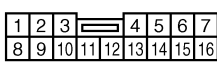
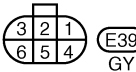
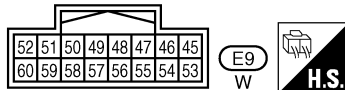
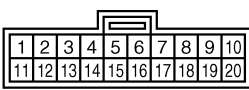
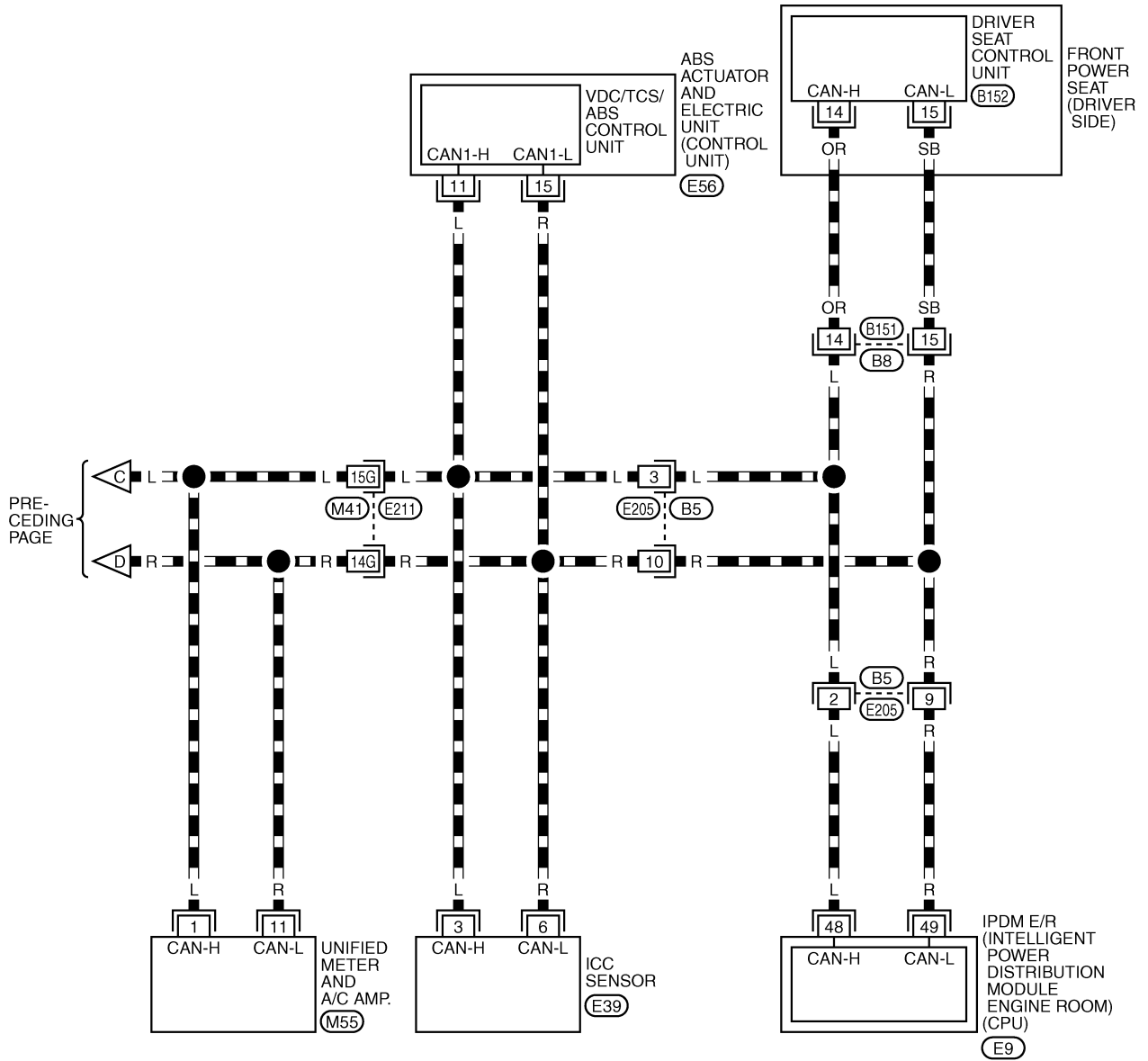


REFER TO THE FOLLOWING.
 (M3) -ELECTRICAL UNITS

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LAN-CAN-09

DATA LINE



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

REFER TO THE FOLLOWING.

(E211) -SUPER MULTIPLE JUNCTION (SMJ)

(E56) -ELECTRICAL UNITS

CAN SYSTEM (TYPE 3)

[CAN]

AKS00CED

Check Sheet

NOTE:

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

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LAN
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M

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

PKIB4353E

CAN SYSTEM (TYPE 3)

[CAN]

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the 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/SEC	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

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

PKIB4177E

CAN SYSTEM (TYPE 3)

[CAN]

A
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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
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

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

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

PKIB4354E

CAN SYSTEM (TYPE 3)

[CAN]

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
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

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

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIB4355E

CAN SYSTEM (TYPE 3)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

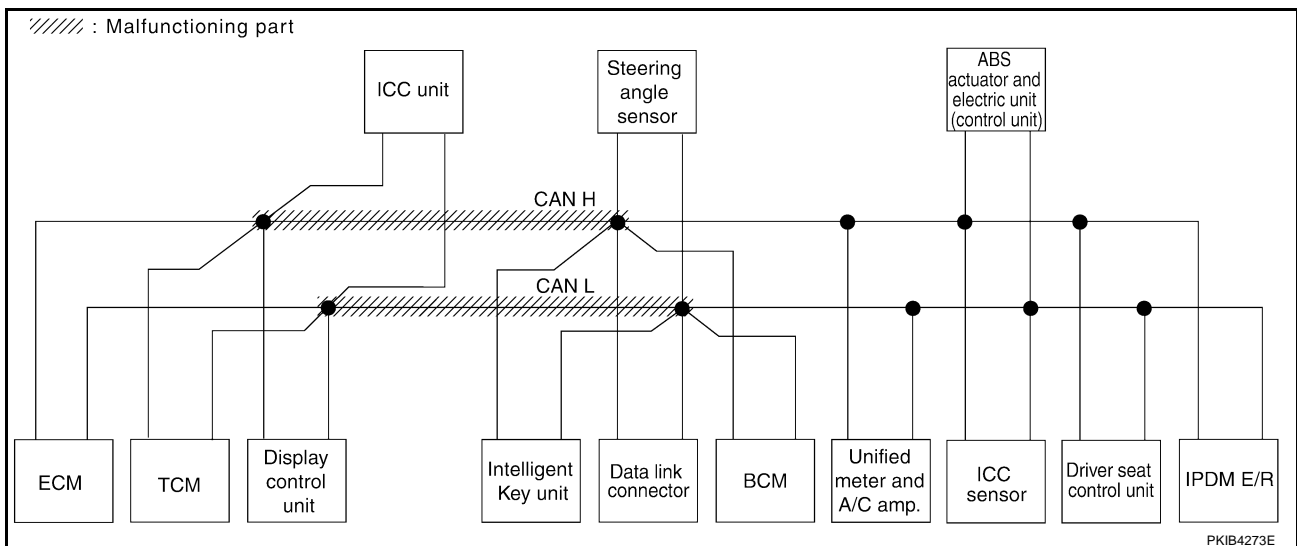
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to [LAN-154, "Inspection Between TCM and Data Link Connector Circuit"](#).

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

PKIB4402E



PKIB4273E

CAN SYSTEM (TYPE 3)

[CAN]

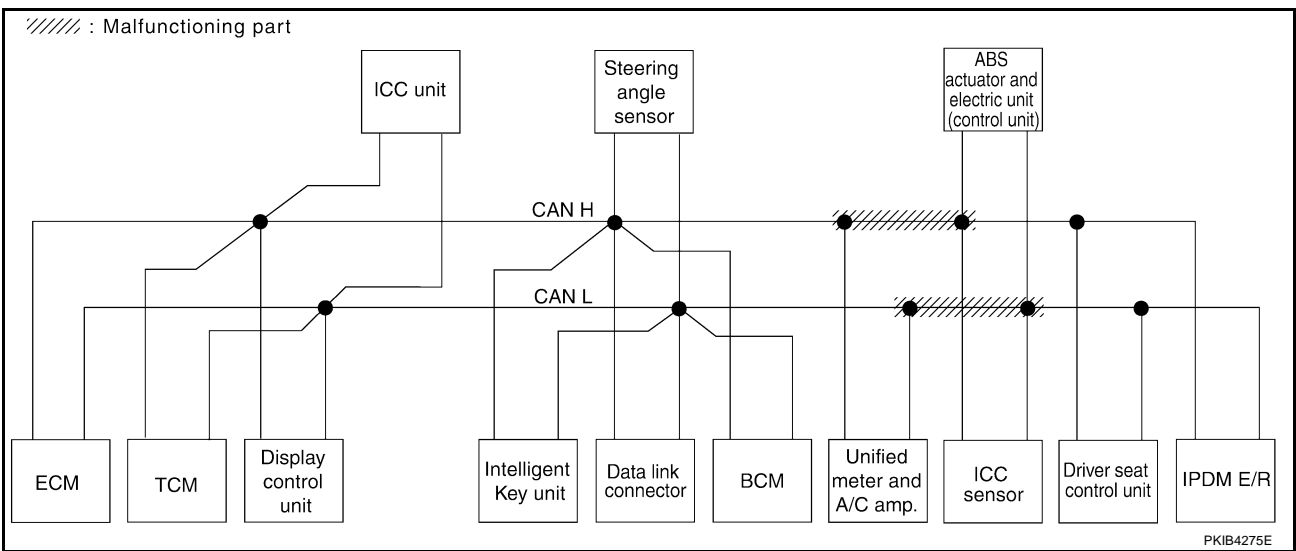
Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to [LAN-155, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

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

PKIB4404E



PKIB4275E

LAN

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CAN SYSTEM (TYPE 3)

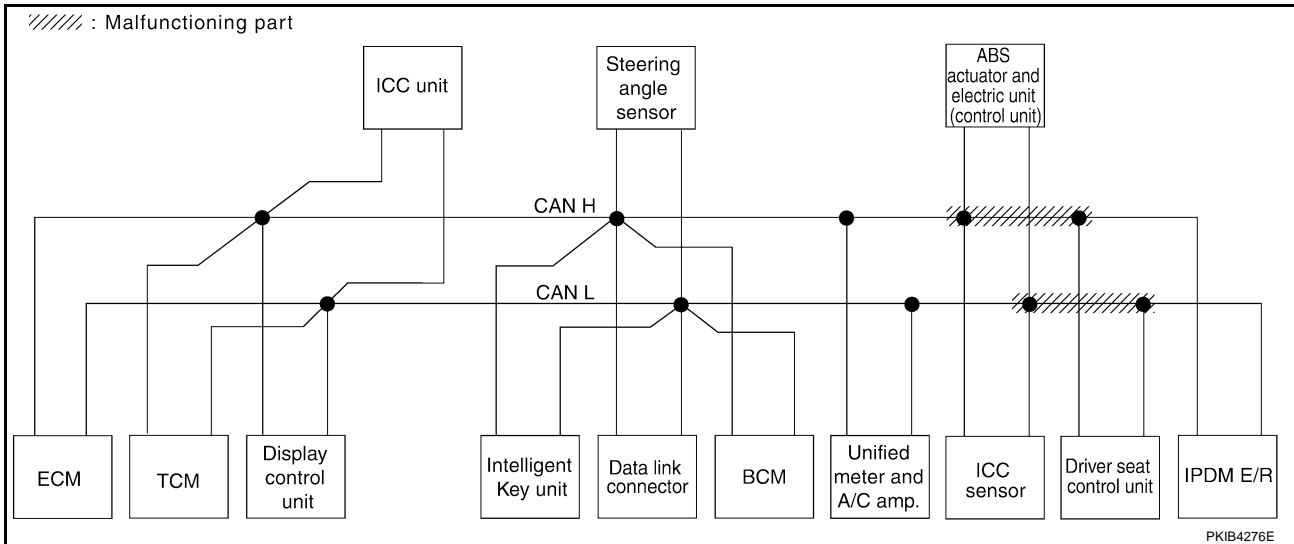
[CAN]

Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to [LAN-156, "Inspection Between ABS Actuator and Electric Unit \(Control Unit\) and Driver Seat Control Unit Circuit"](#) .

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

PKIB4405E



PKIB4276E

CAN SYSTEM (TYPE 3)

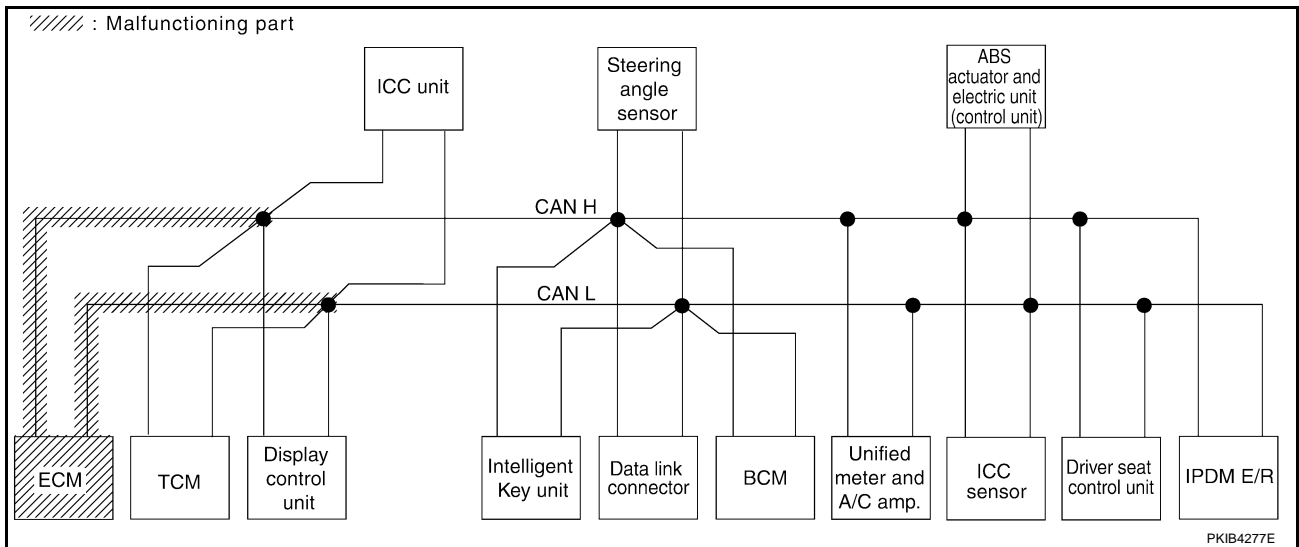
[CAN]

Case 5

Check ECM circuit. Refer to [LAN-157, "ECM Circuit Inspection"](#) .

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

PKIB4406E



PKIB4277E

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CAN SYSTEM (TYPE 3)

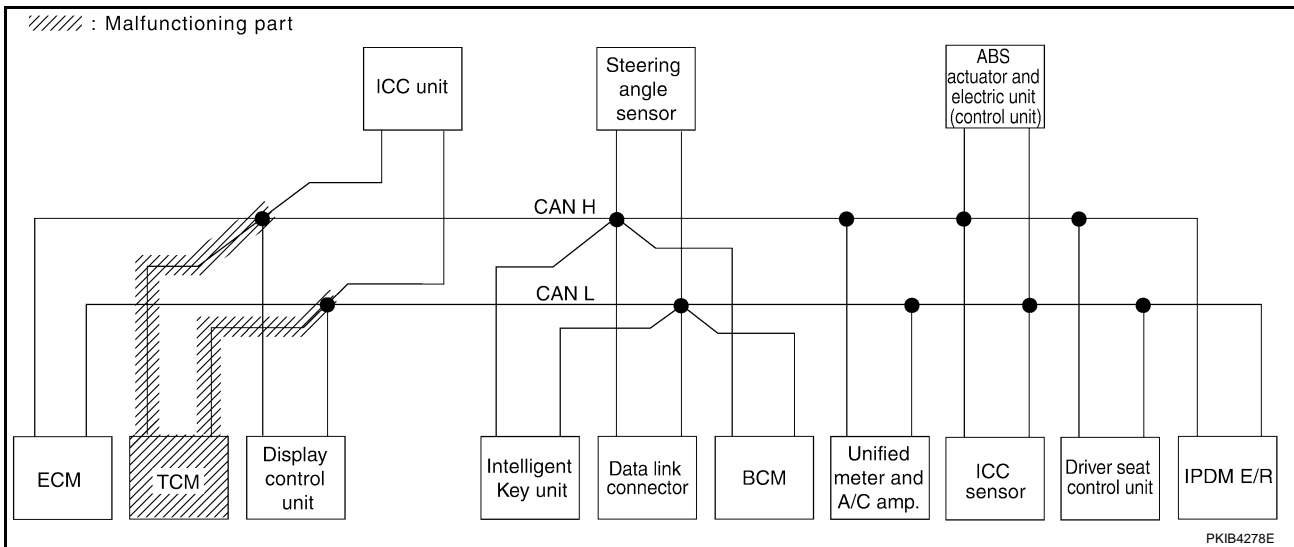
[CAN]

Case 6

Check TCM circuit. Refer to [LAN-157, "TCM Circuit Inspection"](#) .

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

PKIB4407E



PKIB4278E

CAN SYSTEM (TYPE 3)

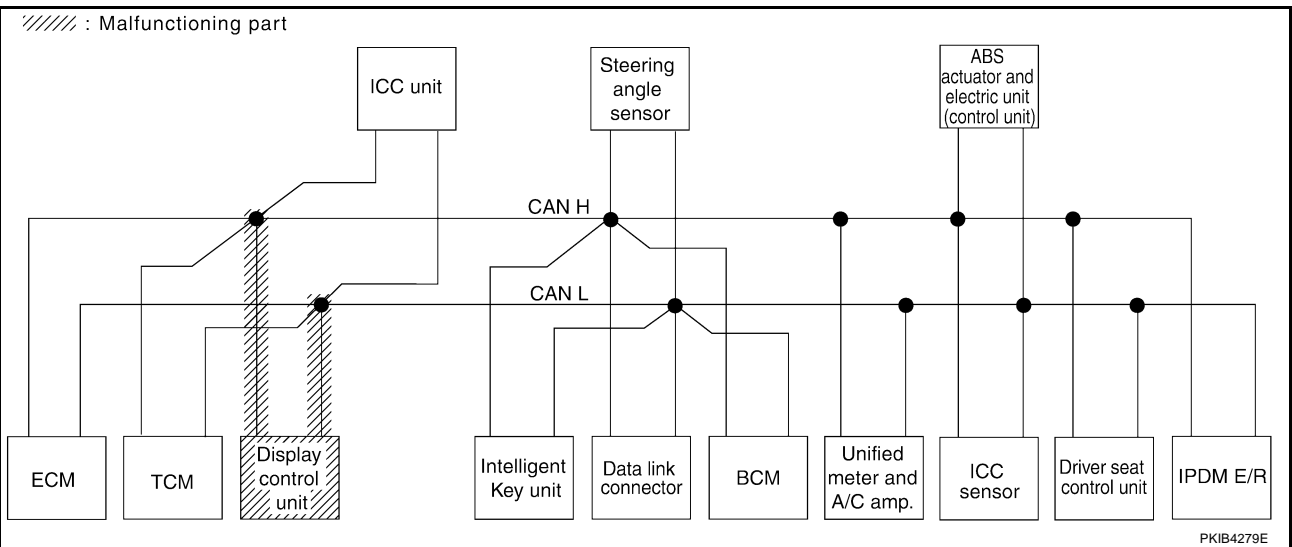
[CAN]

Case 7

Check display control unit circuit. Refer to [LAN-158, "Display Control Unit Circuit Inspection"](#).

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

PKIB4408E



LAN

CAN SYSTEM (TYPE 3)

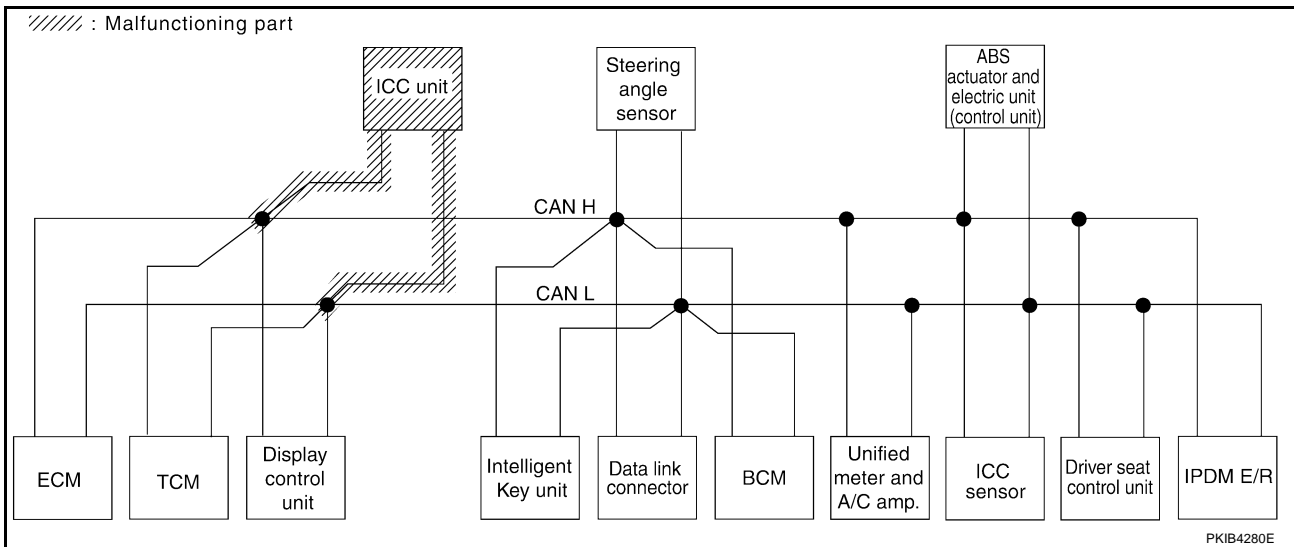
[CAN]

Case 8

Check ICC unit circuit. Refer to [LAN-158, "ICC Unit Circuit Inspection"](#) .

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

PKIB4410E



PKIB4280E

CAN SYSTEM (TYPE 3)

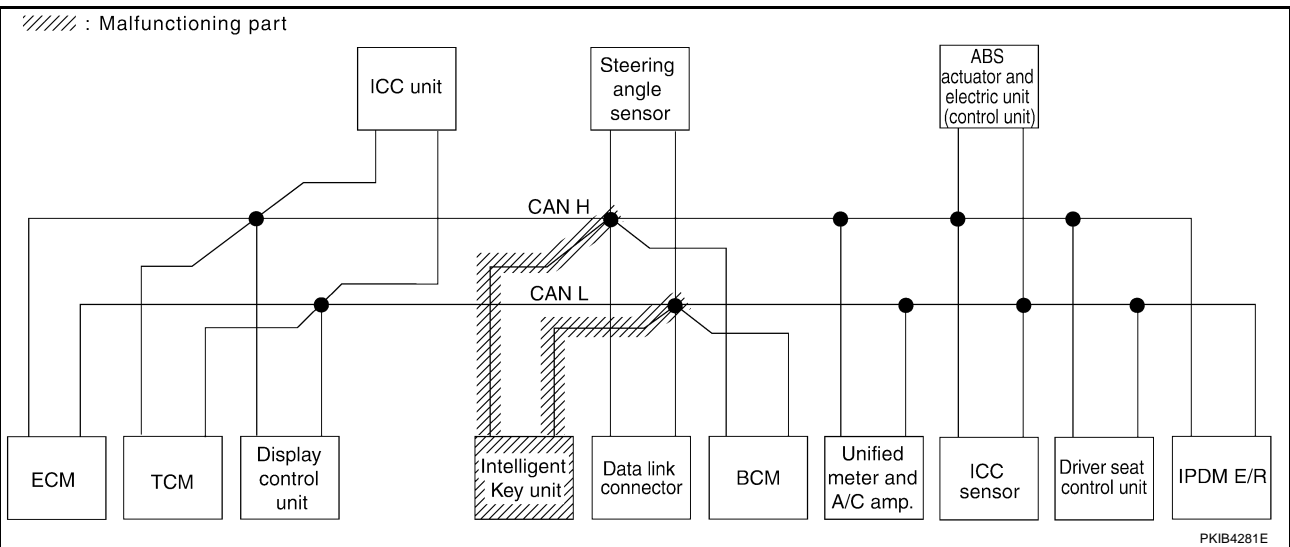
[CAN]

Case 9

Check Intelligent Key unit circuit. Refer to [LAN-159, "Intelligent Key Unit Circuit Inspection"](#).

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

PKIB4411E



PKIB4281E

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CAN SYSTEM (TYPE 3)

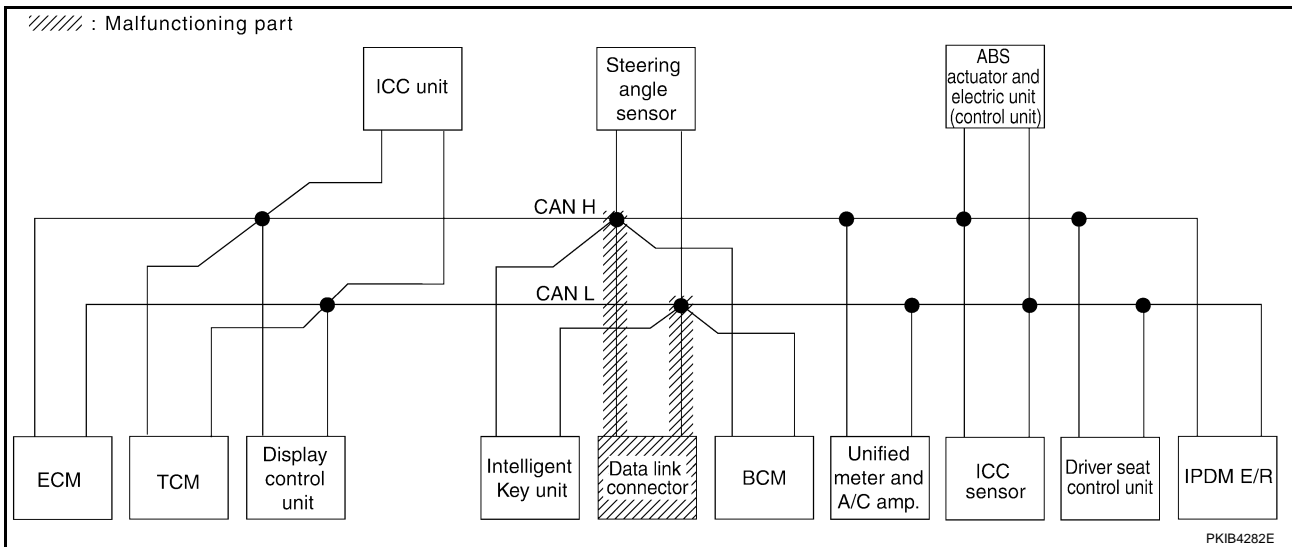
[CAN]

Case 10

Check data link connector circuit. Refer to [LAN-159, "Data Link Connector Circuit Inspection"](#) .

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

PKIB4412E



PKIB4282E

CAN SYSTEM (TYPE 3)

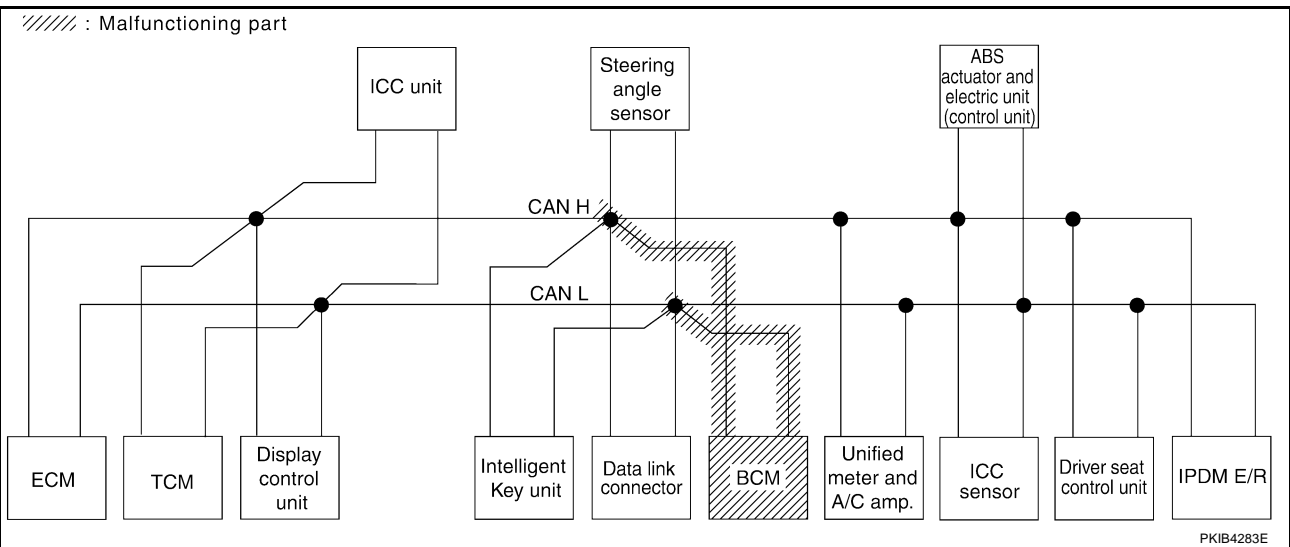
[CAN]

Case 11

Check BCM circuit. Refer to [LAN-160, "BCM Circuit Inspection"](#).

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

PKIB4413E



PKIB4283E

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CAN SYSTEM (TYPE 3)

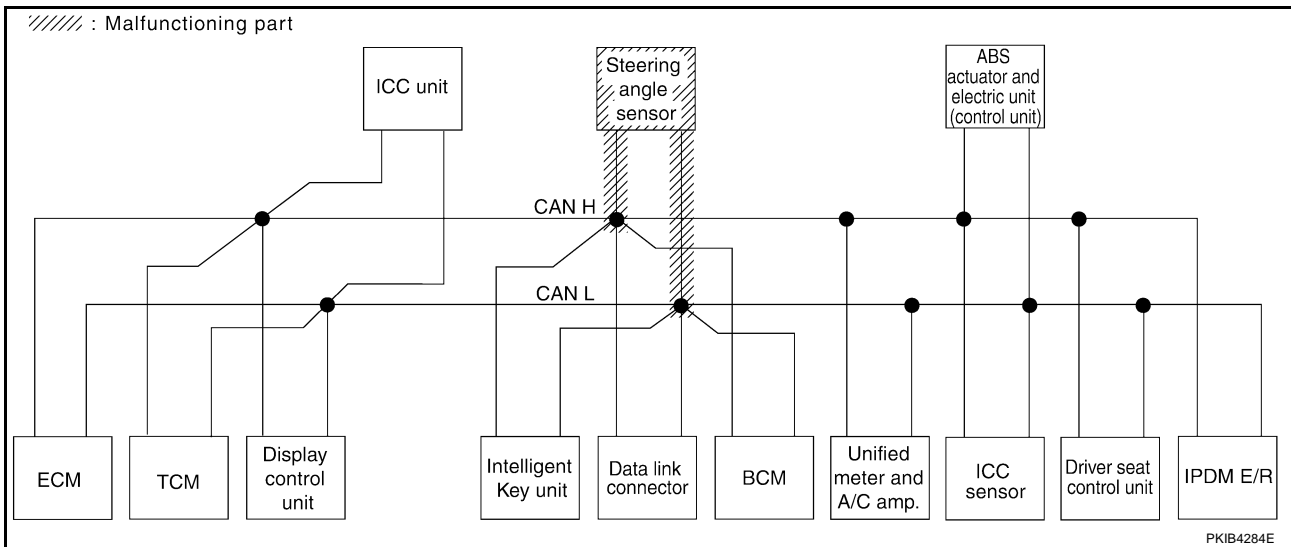
[CAN]

Case 12

Check steering angle sensor circuit. Refer to [LAN-160, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIB4414E



PKIB4284E

CAN SYSTEM (TYPE 3)

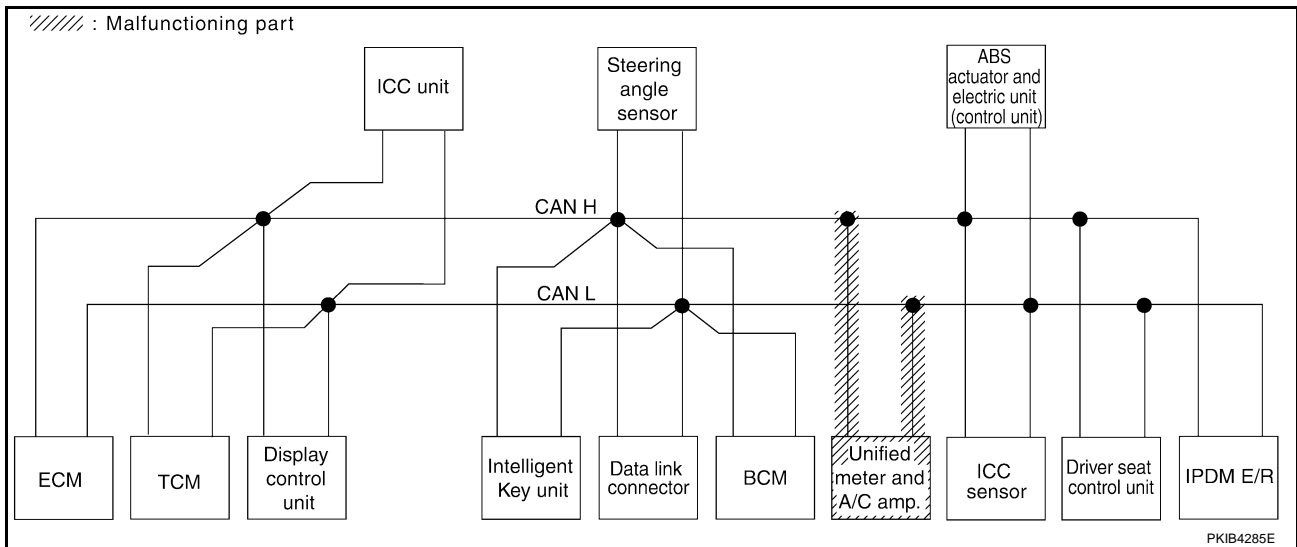
[CAN]

Case 13

Check unified meter and A/C amp. circuit. Refer to [LAN-161, "Unified Meter and A/C Amp. Circuit Inspection"](#).

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

PKIB4415E



PKIB4285E

CAN SYSTEM (TYPE 3)

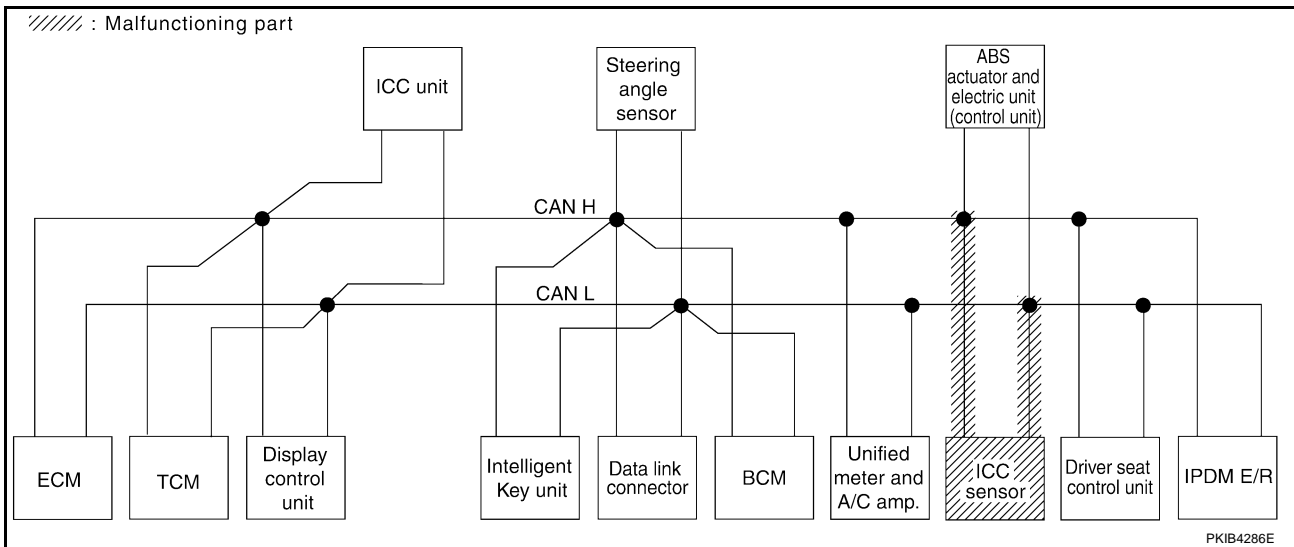
[CAN]

Case 14

Check ICC sensor circuit. Refer to [LAN-161, "ICC Sensor Circuit Inspection"](#) .

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

PKIB4416E



PKIB4286E

CAN SYSTEM (TYPE 3)

[CAN]

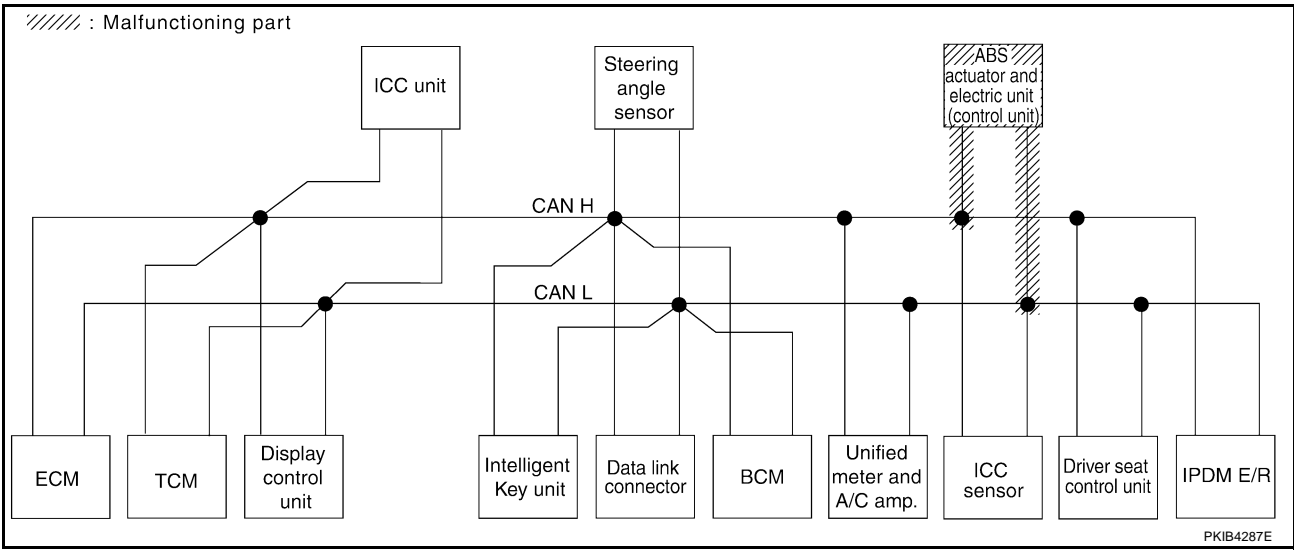
Case 15

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-162, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS						
		Initial diagnosis	Transmit diagnosis	Receive diagnosis																	
				ECM	TCM	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R							
ENGINE	—	NG	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)	—	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	UNKWN	—	—	—
ABS	—	✓	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—

PKIB4417E



CAN SYSTEM (TYPE 3)

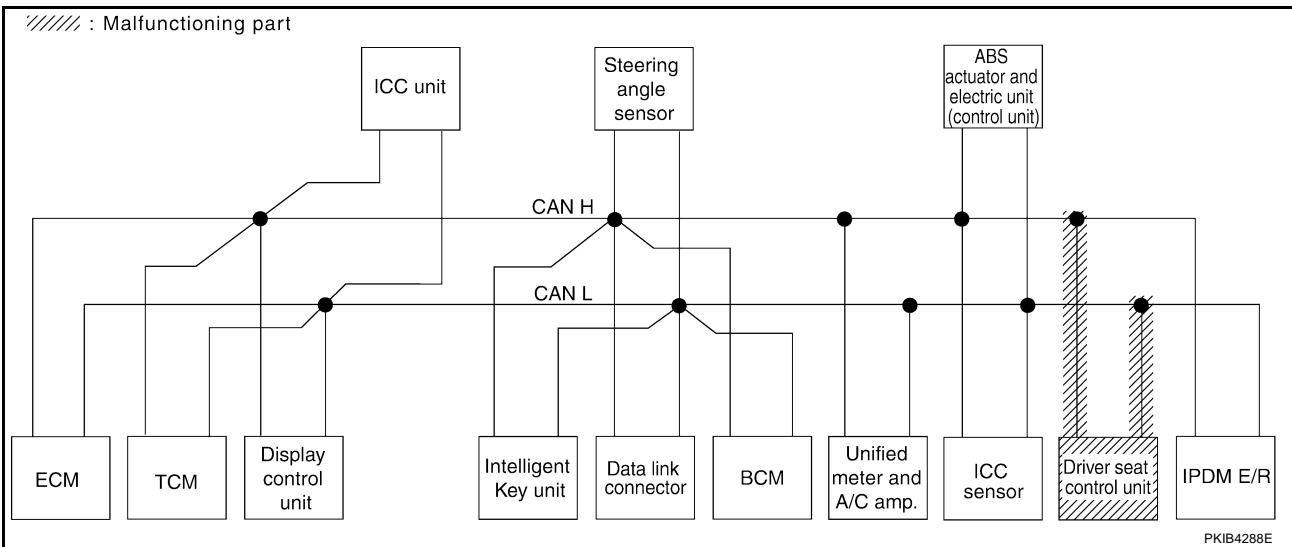
[CAN]

Case 16

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

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

PKIB4418E



PKIB4288E

CAN SYSTEM (TYPE 3)

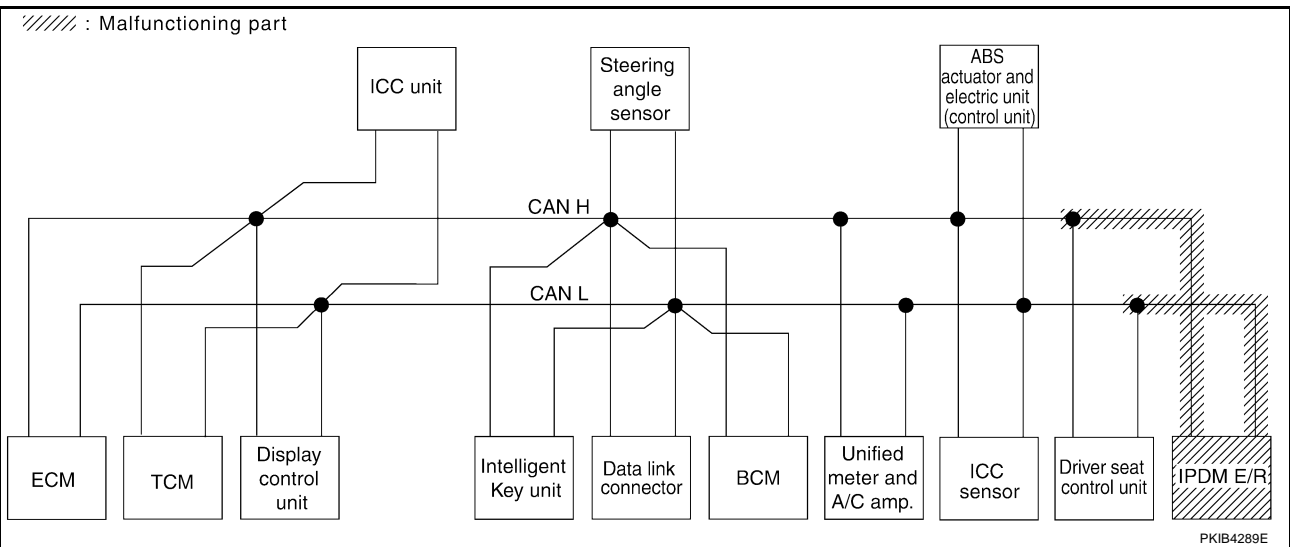
[CAN]

Case 17

Check IPDM E/R circuit. Refer to [LAN-163. "IPDM E/R Circuit Inspection"](#) .

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

PKIB4419E



PKIB4289E

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CAN SYSTEM (TYPE 3)

[CAN]

Case 18

Check CAN communication circuit. Refer to [LAN-164, "CAN Communication Circuit Inspection"](#) .

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

PKIB4420E

CAN SYSTEM (TYPE 3)

[CAN]

Case 19

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-170, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIB4421E

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Case 20

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-170, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIB4422E

Inspection Between TCM and Data Link Connector Circuit

AKS00CEE

1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

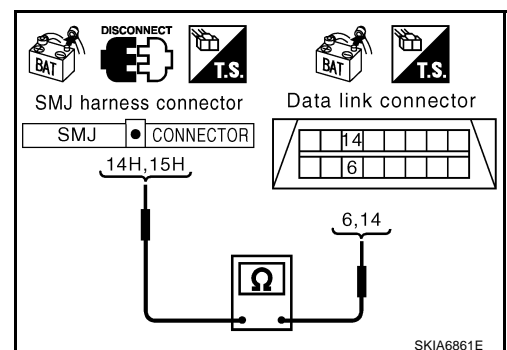
14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .

NG >> Repair harness.



Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

AKS00CEF

1. CHECK HARNESS FOR OPEN CIRCUIT

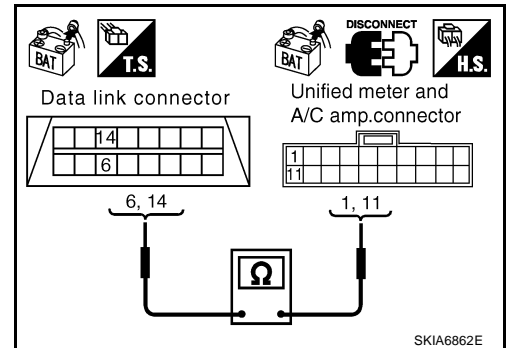
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.

14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

AKS00CEG

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 M41
 - Harness connector E211

OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

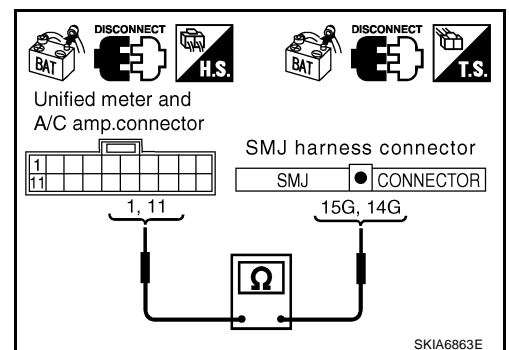
1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.

11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



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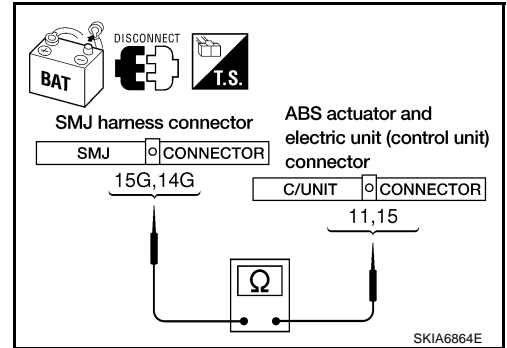
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.
14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



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

AKS00CEH

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 E205
 - Harness connector B5

OK or NG

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

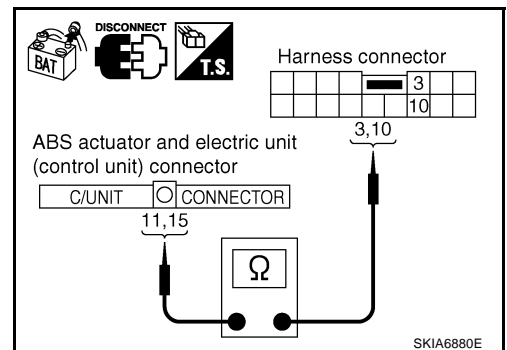
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and harness connector E205 terminals 3 (L), 10 (R).

11 (L) - 3 (L) : Continuity should exist.
15 (R) - 10 (R) : Continuity should exist.

OK or NG

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



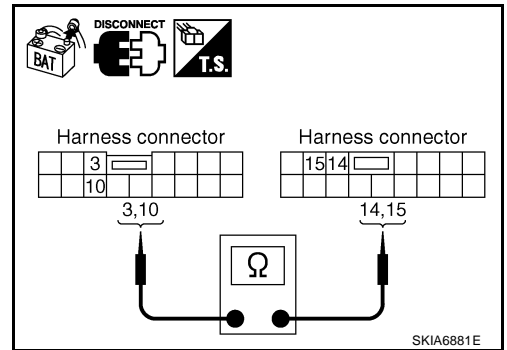
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L), 10 (R) and harness connector B8 terminals 14 (L), 15 (R).

3 (L) - 14 (L) : Continuity should exist.
10 (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
 NG >> Repair harness.



ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

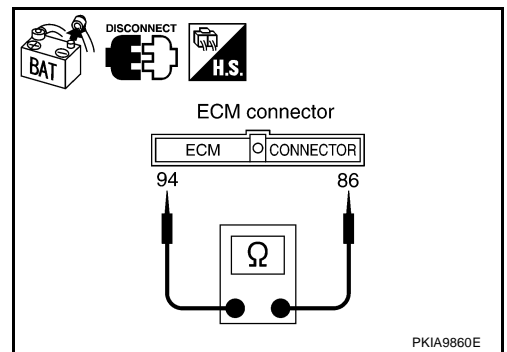
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM and harness connector M82.



TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

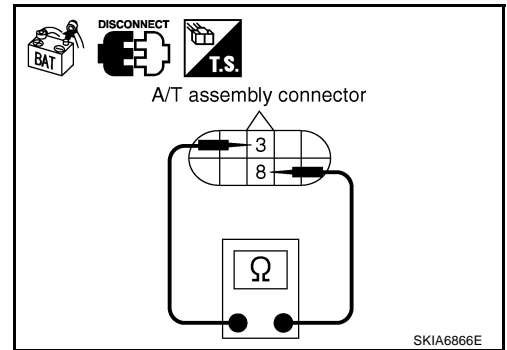
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



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.

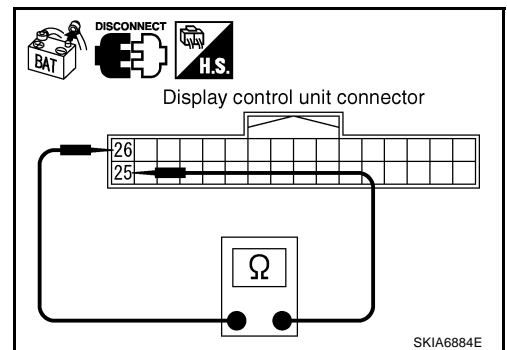
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display control unit connector.
2. Check resistance between display control unit harness connector M76 terminals 25 (L) and 26 (R).

25 (L) - 26 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit and harness connector M82.



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.

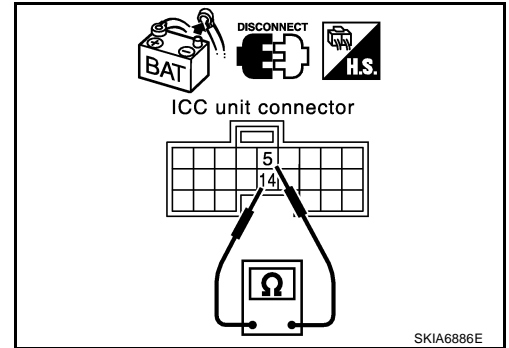
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC unit connector.
2. Check resistance between ICC unit harness connector M88 terminals 14 (L) and 5 (R).

14 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ICC unit.
 NG >> Repair harness between ICC unit and harness connector M82.



AKS00CEN

Intelligent Key Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

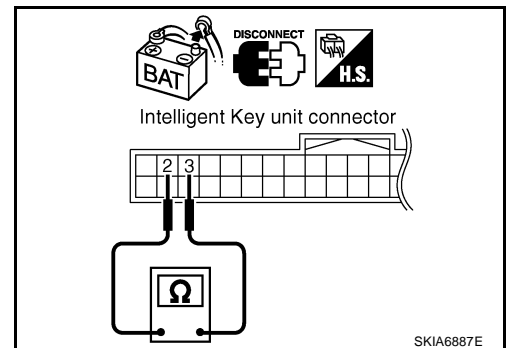
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector M34 terminals 2 (L) and 3 (R).

2 (L) - 3 (R) : Approx. 54 - 66Ω

OK or NG

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



AKS00CEO

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

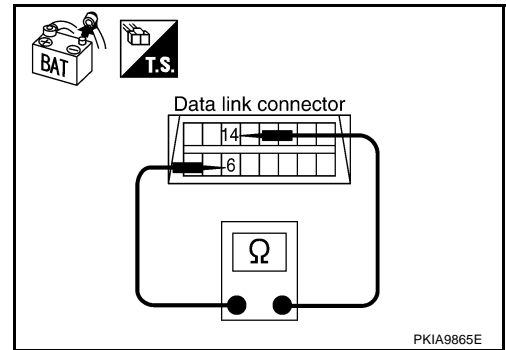
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and BCM.



AKS00CEP

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.

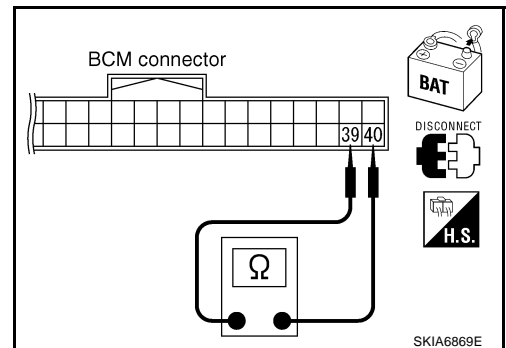
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and data link connector.



AKS00CEQ

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.

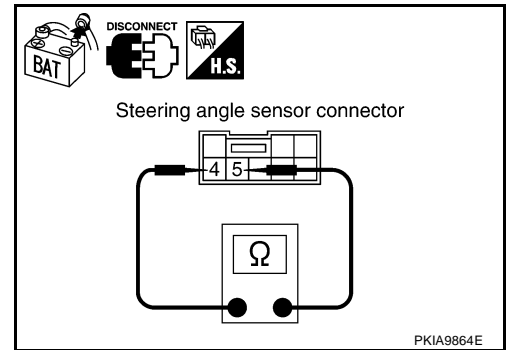
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



Unified Meter and A/C Amp. Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

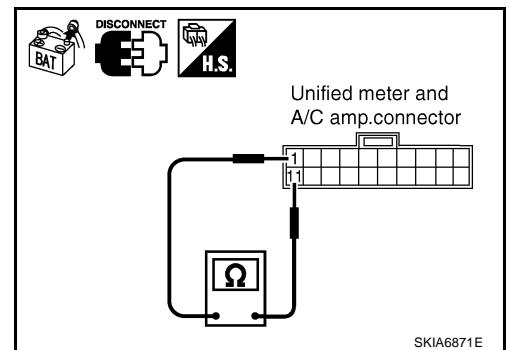
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



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.

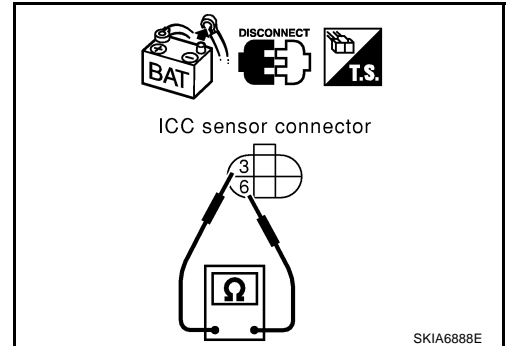
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC sensor connector.
2. Check resistance between ICC sensor harness connector E39 terminals 3 (L) and 6 (R).

3 (L) - 6 (R) : Approx. 54 - 66Ω

OK or NG

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



ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

AKS00CET

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.

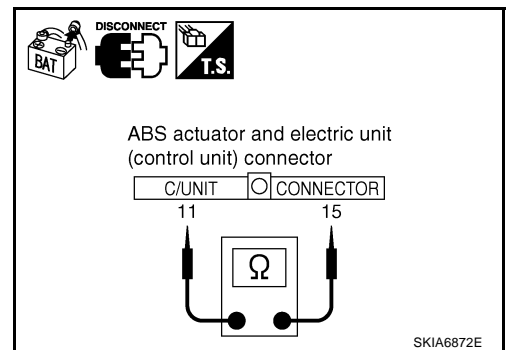
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

OK or NG

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



Driver Seat Control Unit Circuit Inspection

AKS00CEU

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 B151
 - Harness connector B8

OK or NG

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

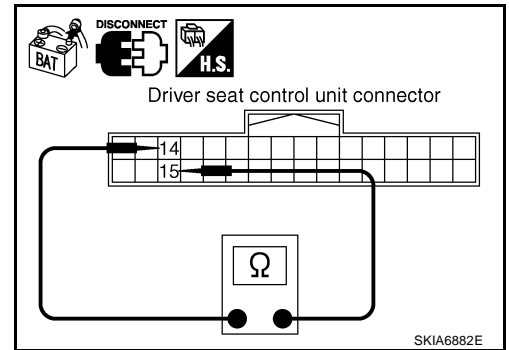
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit and harness connector B5.



AKS00CEV

IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

OK or NG

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

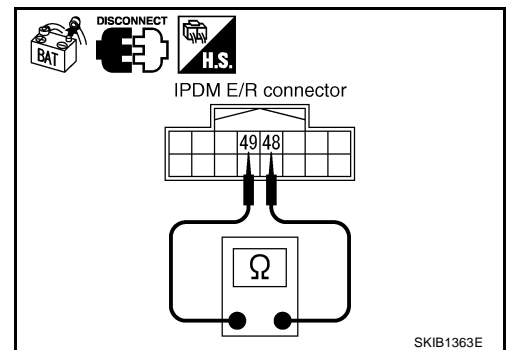
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R and harness connector B8.



LAN

L

M

CAN Communication Circuit Inspection

AKS00CEW

1. CHECK CONNECTOR

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

OK or NG

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

2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display control unit connector
 - ICC unit connector
 - Intelligent Key unit connector
 - BCM connector
 - Steering angle sensor connector
 - Unified meter and A/C amp. connector
 - Harness connector M41
2. Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

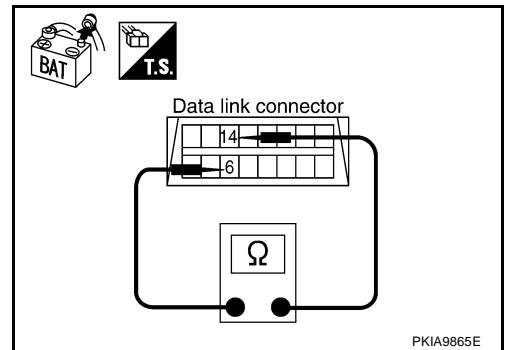
6 (L) - 14 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display control unit
- Harness between data link connector and ICC unit
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

6 (L) - Ground : Continuity should not exist.

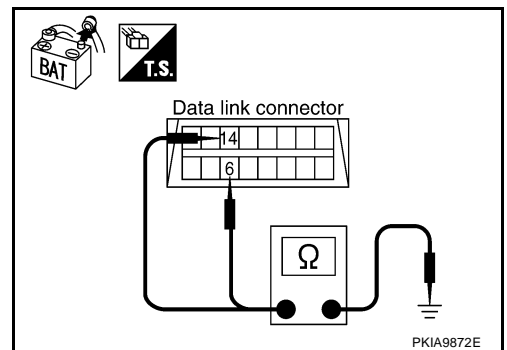
14 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display control unit
- Harness between data link connector and ICC unit
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



4. CHECK HARNESS FOR SHORT CIRCUIT

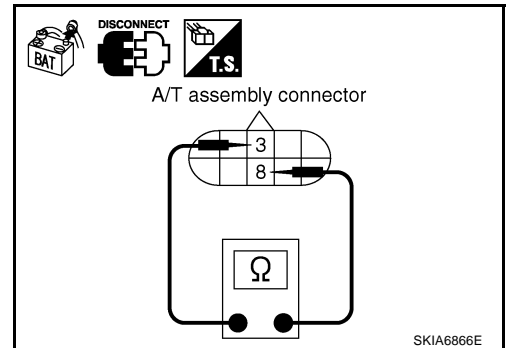
1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 5.

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



5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

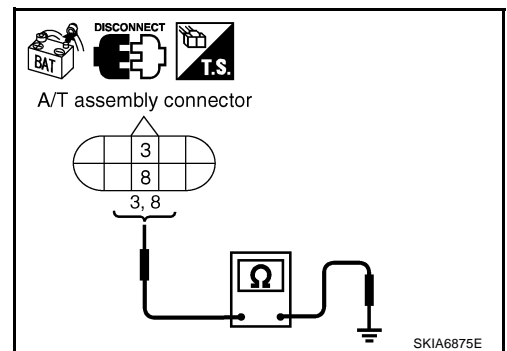
3 (L) - Ground : Continuity should not exist.

8 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 6.

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



6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ICC sensor connector
 - ABS actuator and electric unit (control unit) connector
 - Harness connector E205
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

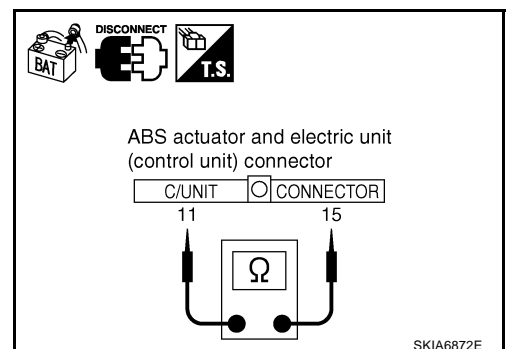
11 (L) - 15 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 7.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and ICC sensor
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

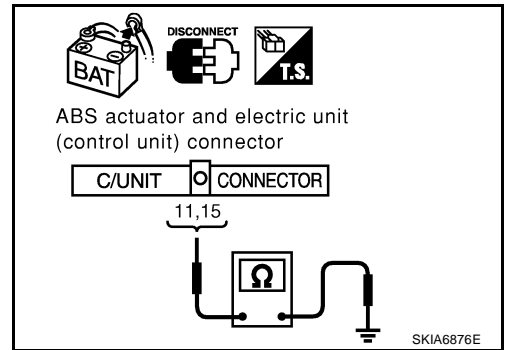
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 8.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and ICC sensor
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

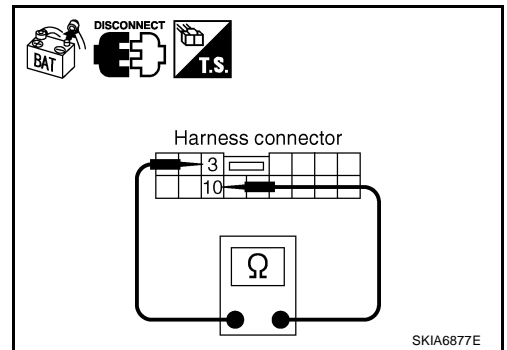
3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 9.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

3 (L) - Ground : Continuity should not exist.

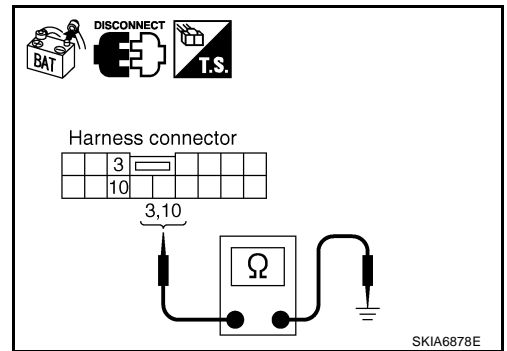
10 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



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10. CHECK HARNESS FOR SHORT CIRCUIT

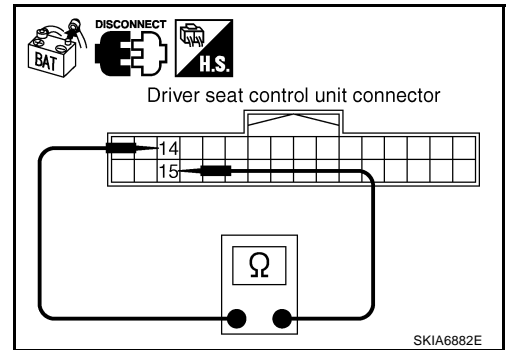
1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Continuity should not exist.

OK or NG

OK >> GO TO 11.

NG >> Repair harness between driver seat control unit and harness connector B151.



11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector B152 terminals 14 (OR), 15 (SB) and ground.

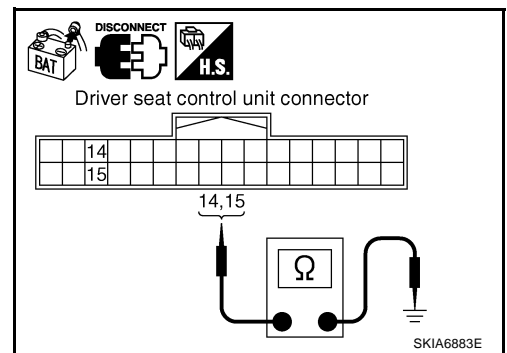
14 (OR) - Ground : Continuity should not exist.

15 (SB) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 12.

NG >> Repair harness between driver seat control unit and harness connector B151.



12. CHECK HARNESS FOR SHORT CIRCUIT

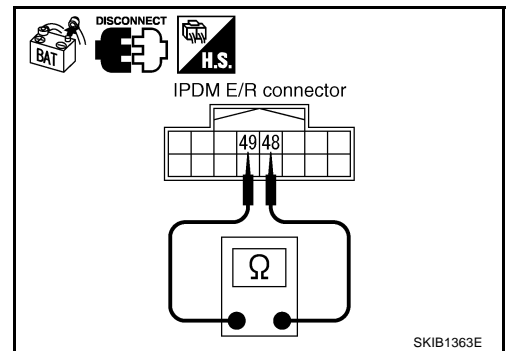
1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 13.

NG >> Repair harness between IPDM E/R and harness connector E205.



13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

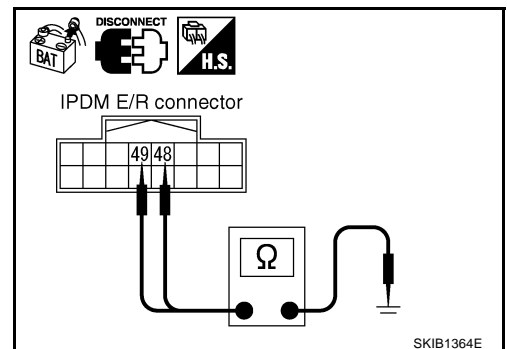
48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 14.

NG >> Repair harness between IPDM E/R and harness connector E205.



14. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.

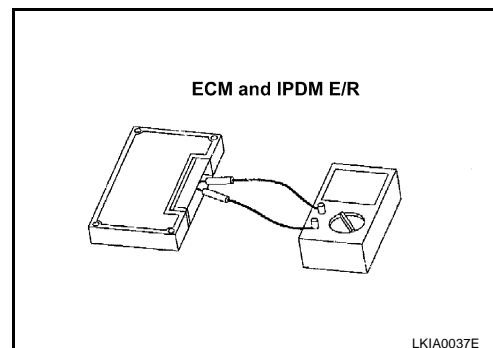
94 - 86 : Approx. 108 - 132Ω

3. Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

OK or NG

- OK >> GO TO 15.
 NG >> Replace ECM and/or IPDM E/R.

**15. 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 16.
 NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

16. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

IPDM E/R Ignition Relay Circuit Inspection

AKS00CEX

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-12, "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START" "](#) .

CAN SYSTEM (TYPE 4)

[CAN]

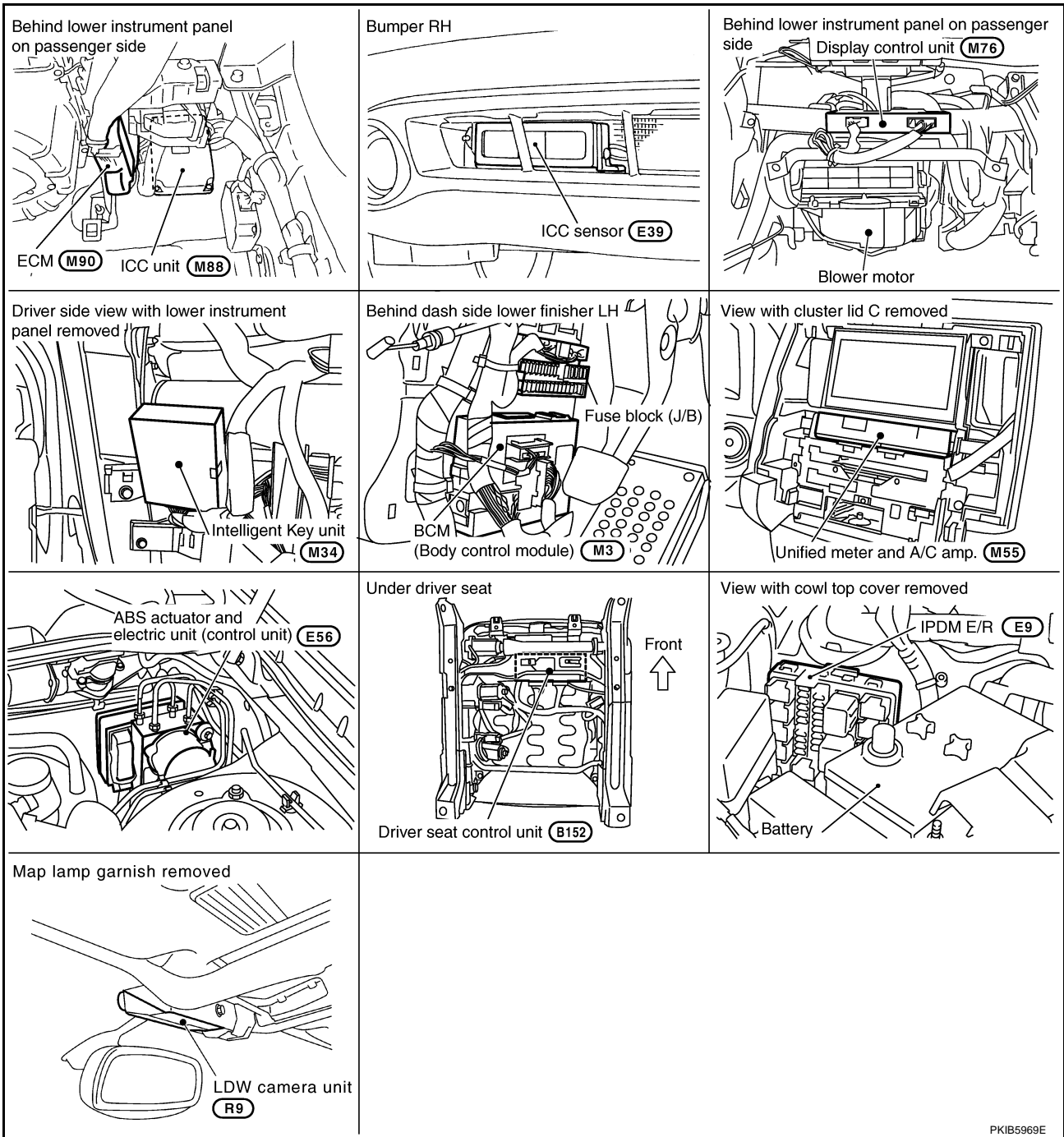
PFP:23710

AKS00CDM

CAN SYSTEM (TYPE 4)

Component Parts and Harness Connector Location

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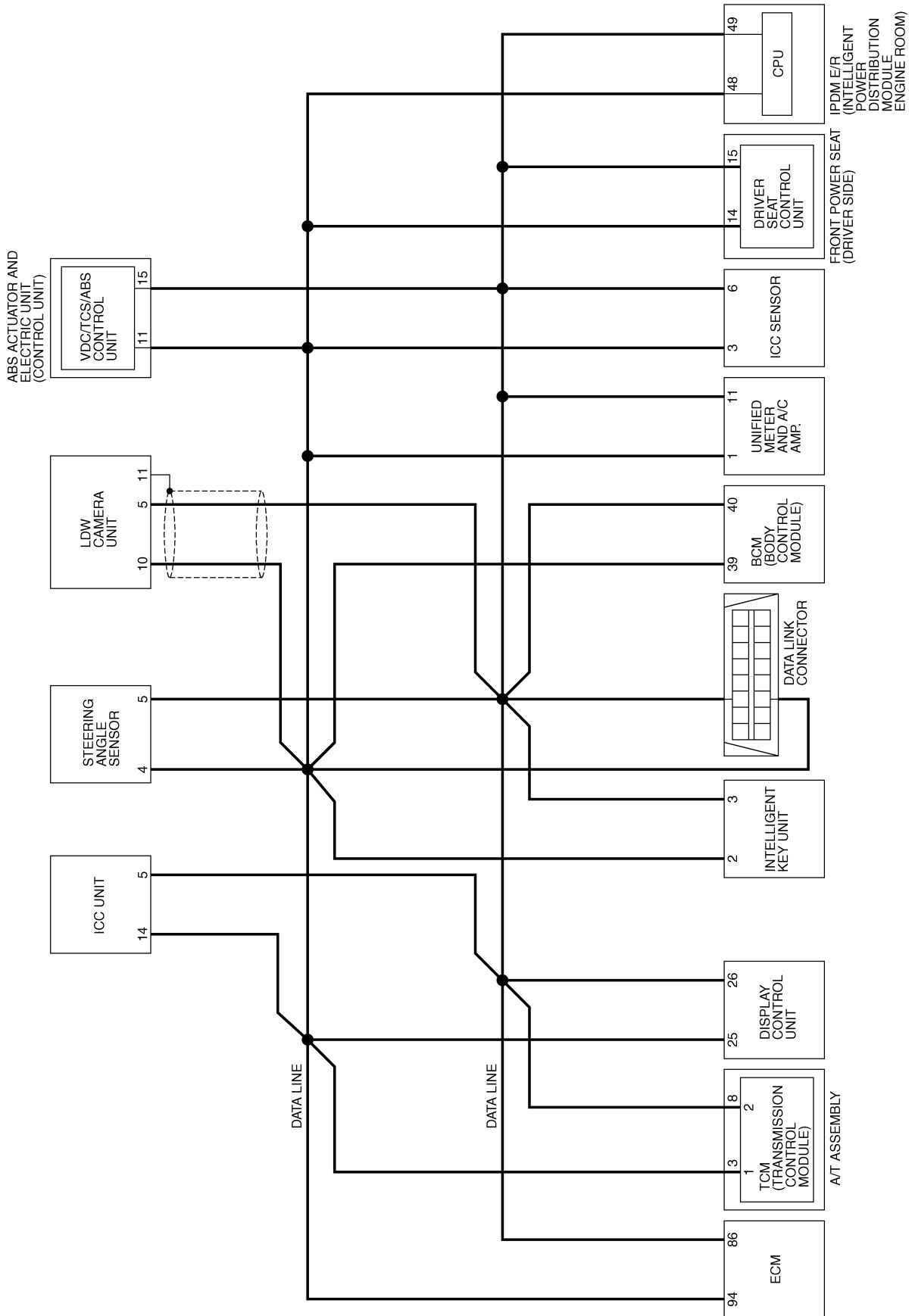
PKIB5969E

CAN SYSTEM (TYPE 4)

[CAN]

AKS00CDN

Schematic



TKWM2359E

CAN SYSTEM (TYPE 4)

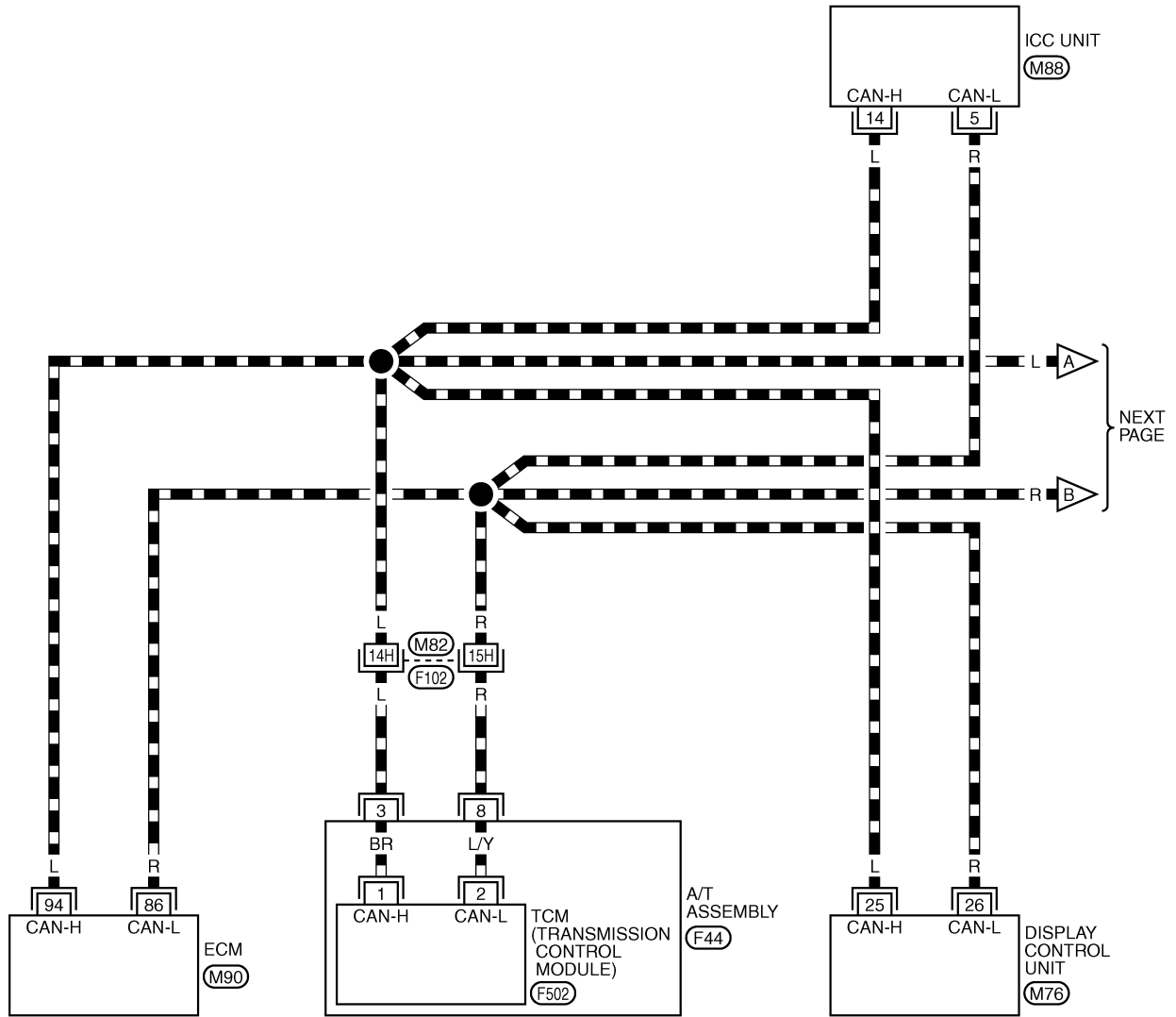
[CAN]

Wiring Diagram - CAN -

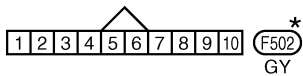
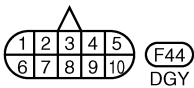
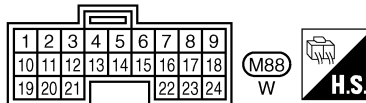
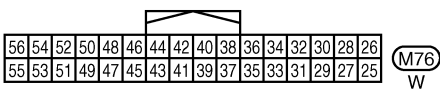
AKS00CDO

LAN-CAN-10

▬ : DATA LINE



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

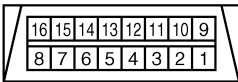
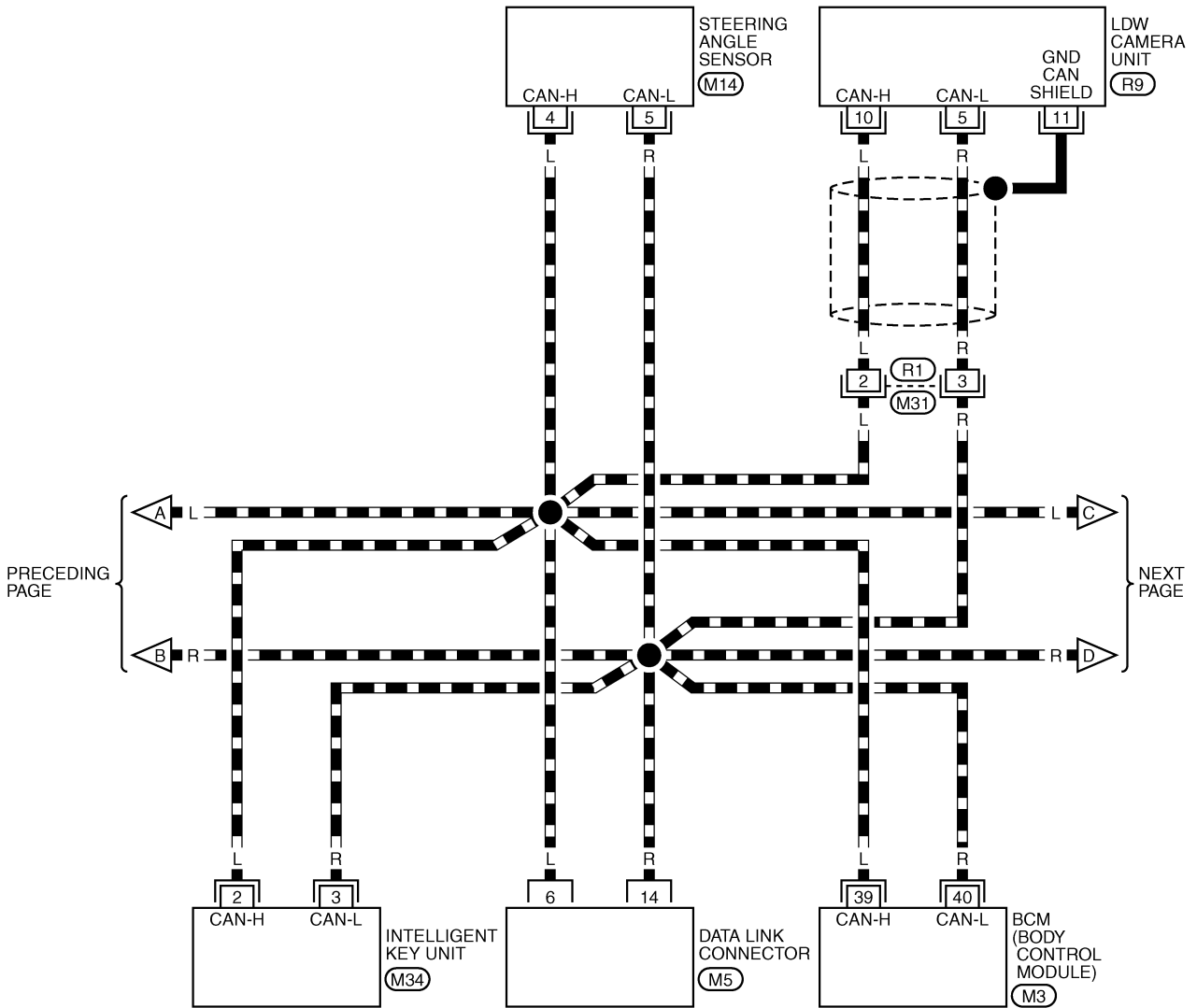
REFER TO THE FOLLOWING.

- F102 -SUPER MULTIPLE JUNCTION (SMJ)
- M90 -ELECTRICAL UNITS

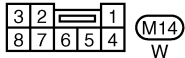
TKWM2360E

LAN-CAN-11

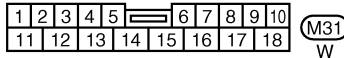
▬ : DATA LINE



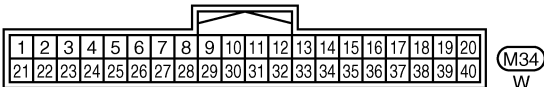
(M5)
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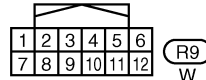
(M14)
W



(M31)
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(M34)
W

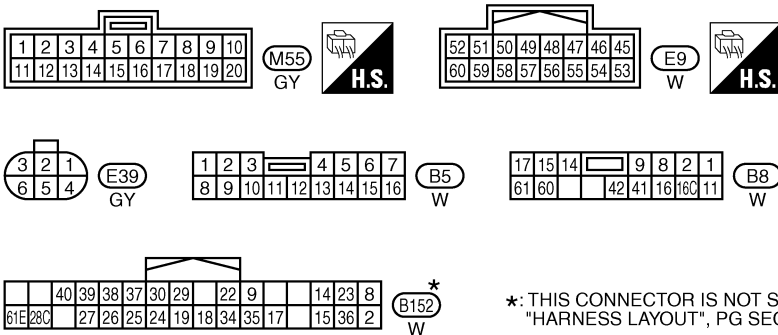
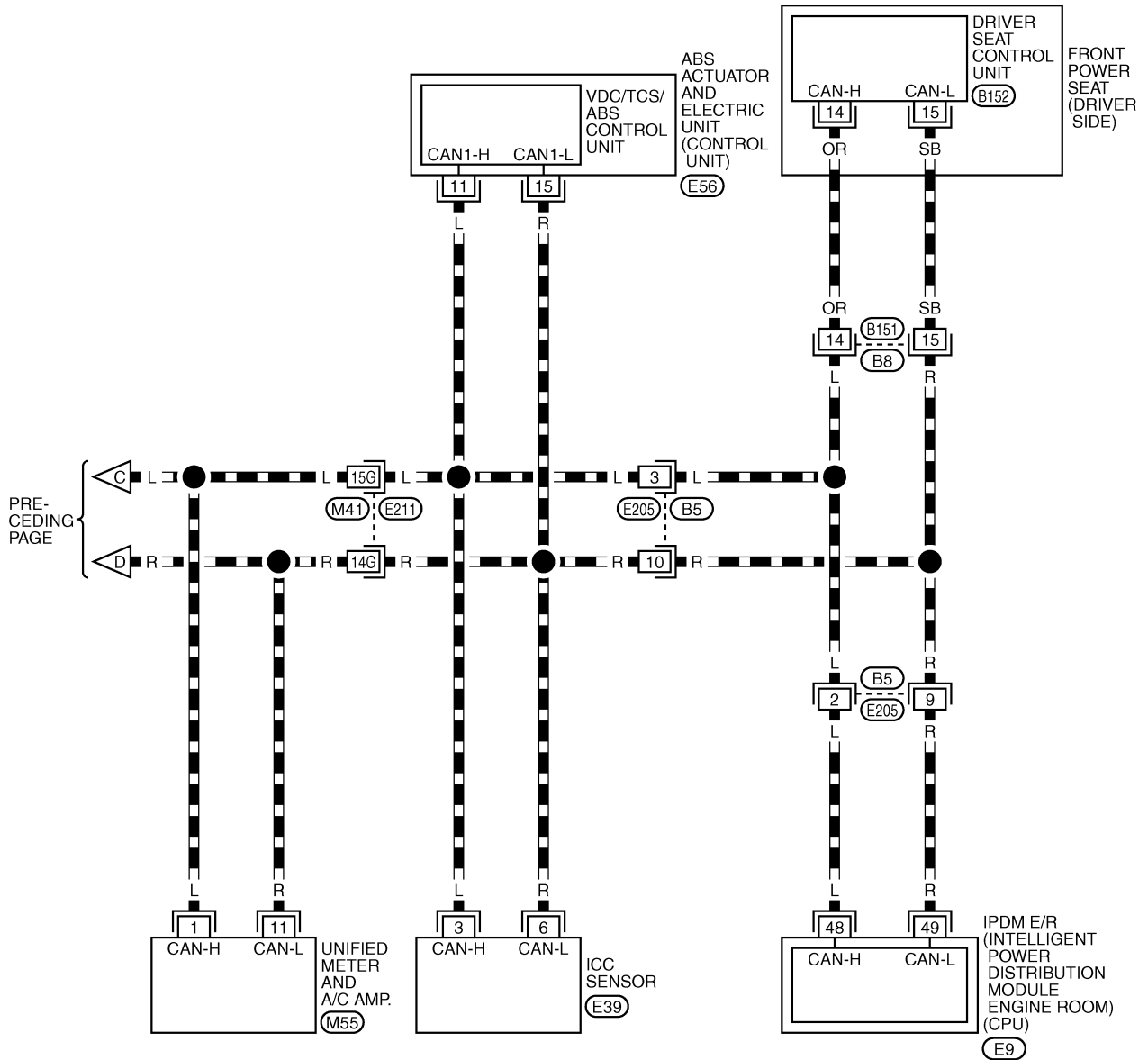


(R9)
W

REFER TO THE FOLLOWING.
(M3) -ELECTRICAL UNITS

LAN-CAN-12

DATA LINE



REFER TO THE FOLLOWING.

- (E21) -SUPER MULTIPLE JUNCTION (SMJ)
- (E56) -ELECTRICAL UNITS

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

TKWM2362E

CAN SYSTEM (TYPE 4)

[CAN]

AKS00CDP

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	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	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

PKIB4350E

CAN SYSTEM (TYPE 4)

[CAN]

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the 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/SEC	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

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

PKIB4177E

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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
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
LDW
SELF-DIAG RESULTS

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

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

PKIB4351E

CAN SYSTEM (TYPE 4)

[CAN]

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Attach copy of
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MNTR

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ICC
CAN DIAG SUPPORT
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INTELLIGENT KEY
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BCM
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METER A/C AMP
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AUTO DRIVE POS.
CAN DIAG SUPPORT
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PKIB4352E

CAN SYSTEM (TYPE 4)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

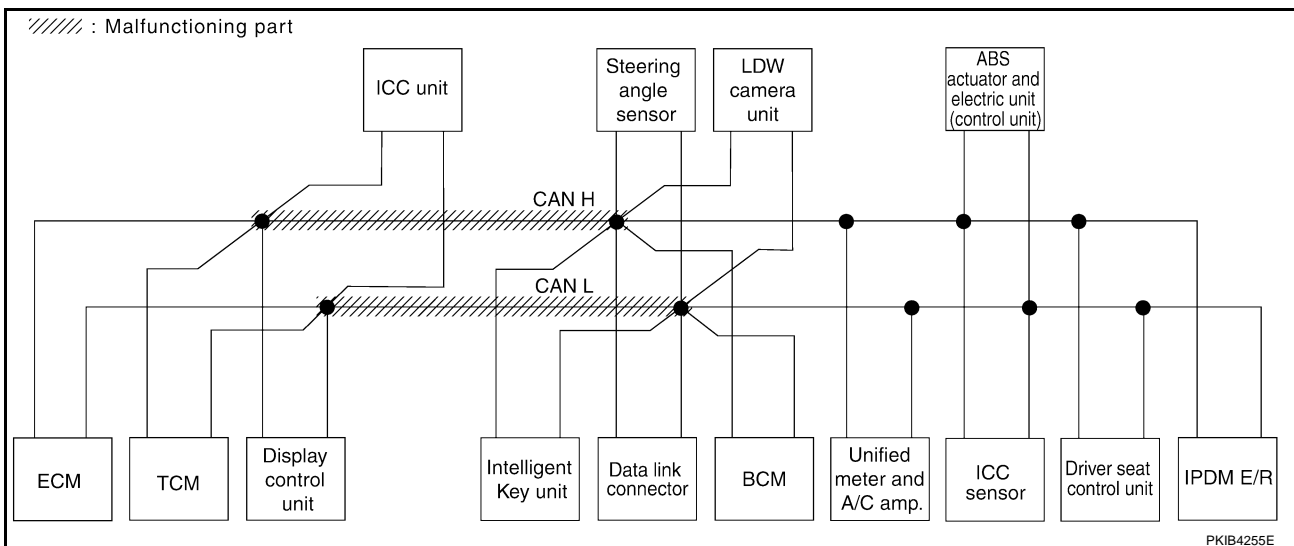
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to [LAN-200, "Inspection Between TCM and Data Link Connector Circuit"](#).

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

PKIB4381E



PKIB4255E

CAN SYSTEM (TYPE 4)

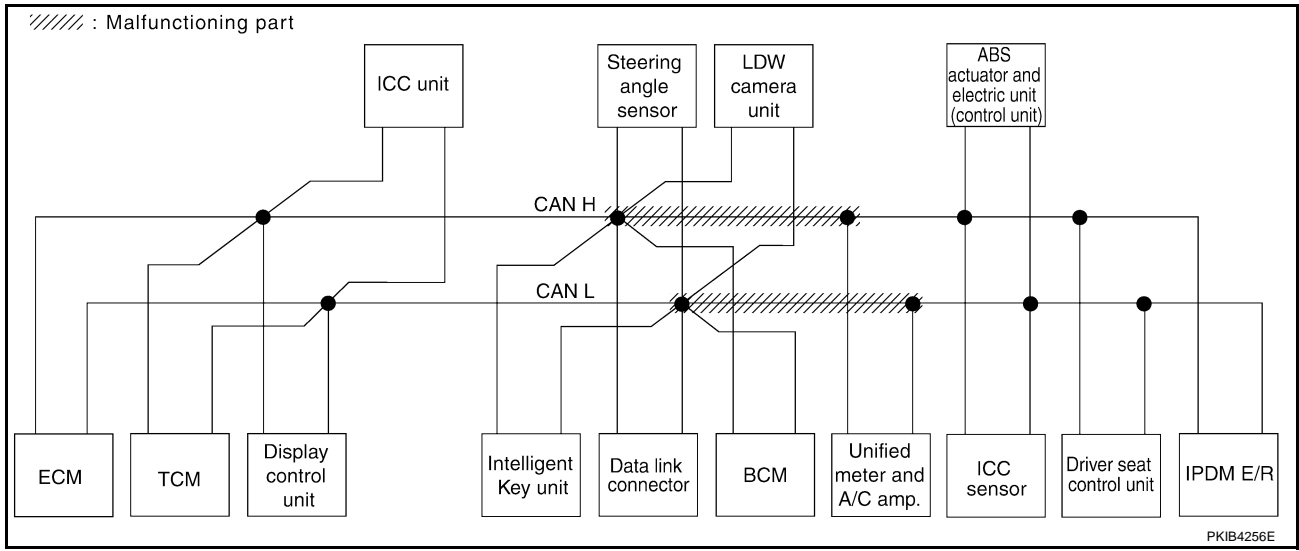
[CAN]

Case 2

Check harness between data link connector and unified meter and A/C amp. Refer to [LAN-201, "Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit"](#).

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

PKIB4382E



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CAN SYSTEM (TYPE 4)

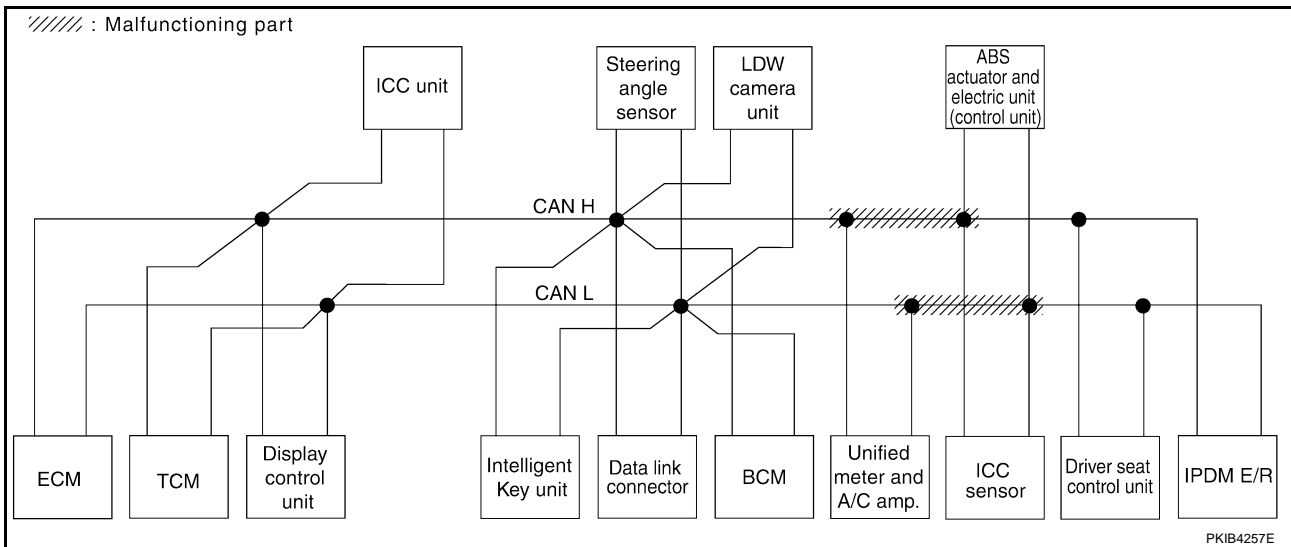
[CAN]

Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to LAN-201, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit" .

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

PKIB4383E



PKIB4257E

CAN SYSTEM (TYPE 4)

[CAN]

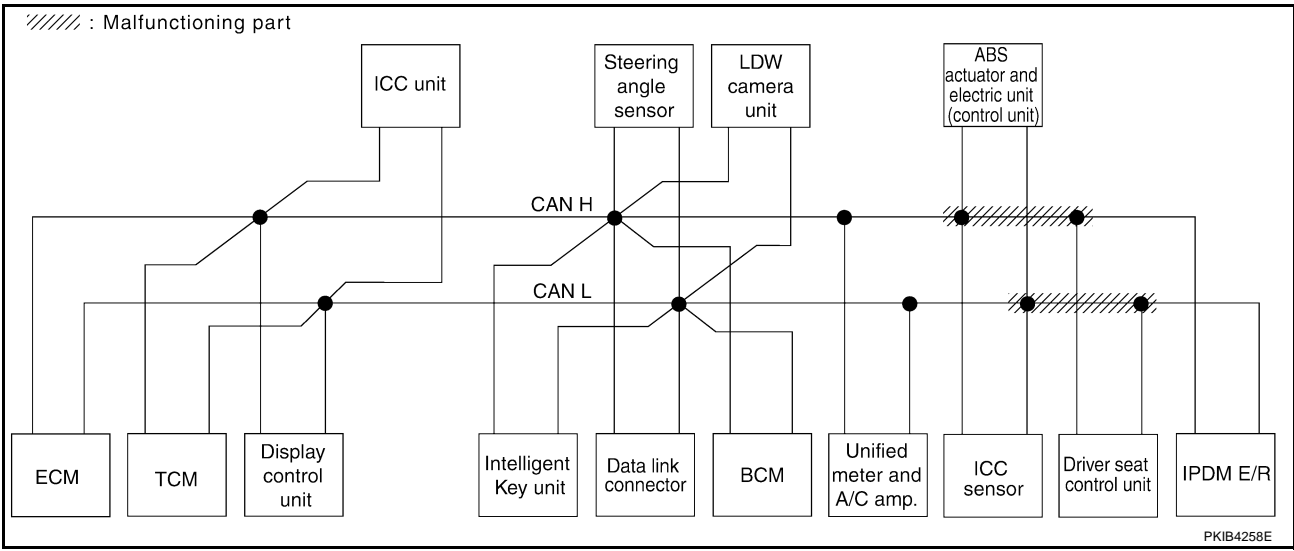
Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to [LAN-202, "Inspection Between ABS Actuator and Electric Unit \(Control Unit\) and Driver Seat Control Unit Circuit"](#) .

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

PKIB4384E



PKIB4258E

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CAN SYSTEM (TYPE 4)

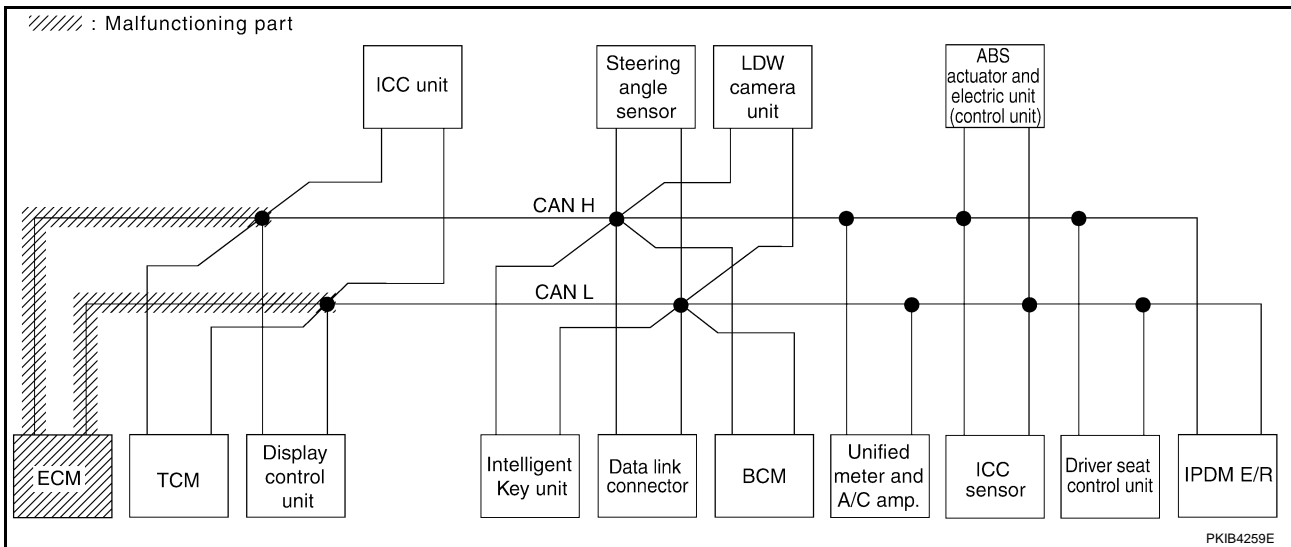
[CAN]

Case 5

Check ECM circuit. Refer to [LAN-203, "ECM Circuit Inspection"](#) .

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

PKIB4385E



PKIB4259E

CAN SYSTEM (TYPE 4)

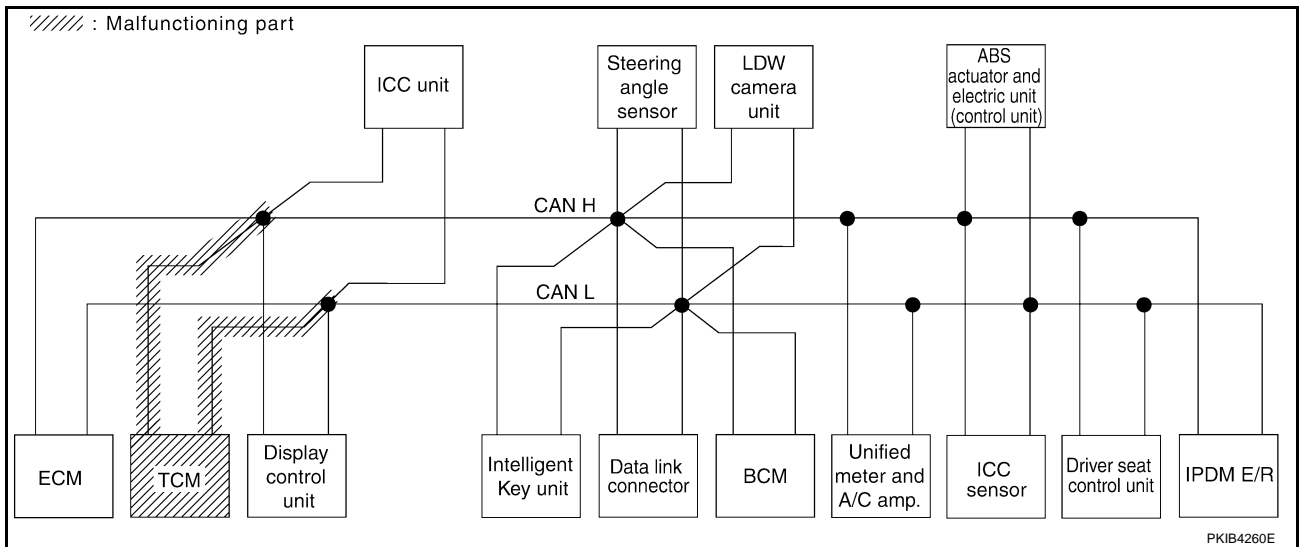
[CAN]

Case 6

Check TCM circuit. Refer to [LAN-203, "TCM Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 4)

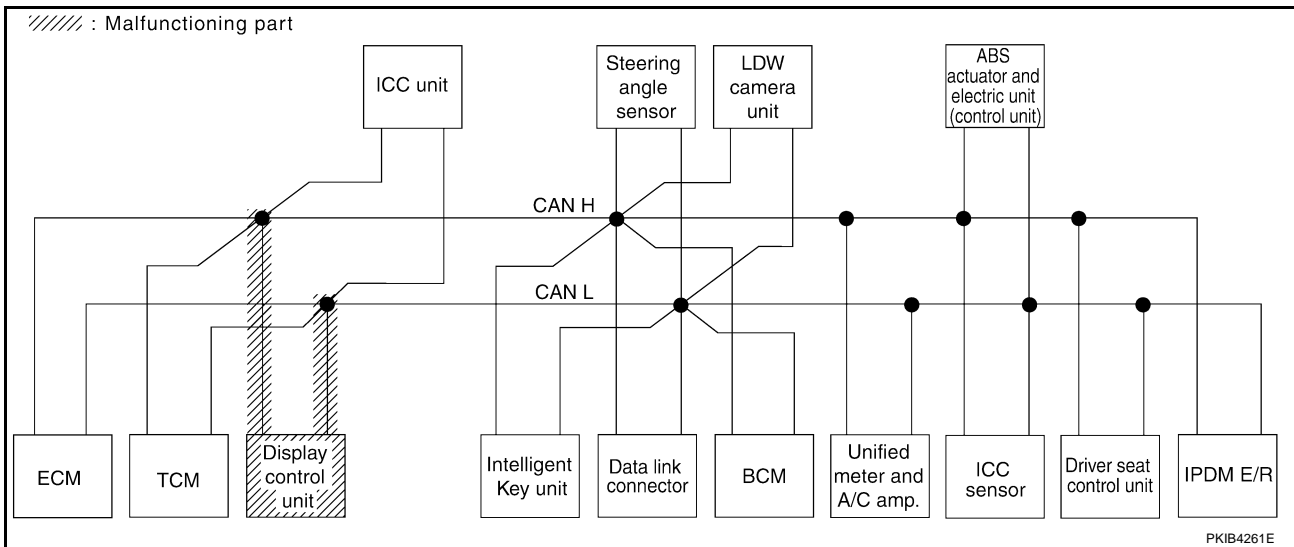
[CAN]

Case 7

Check display control unit circuit. Refer to [LAN-204, "Display Control Unit Circuit Inspection"](#).

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

PKIB4387E



PKIB4261E

CAN SYSTEM (TYPE 4)

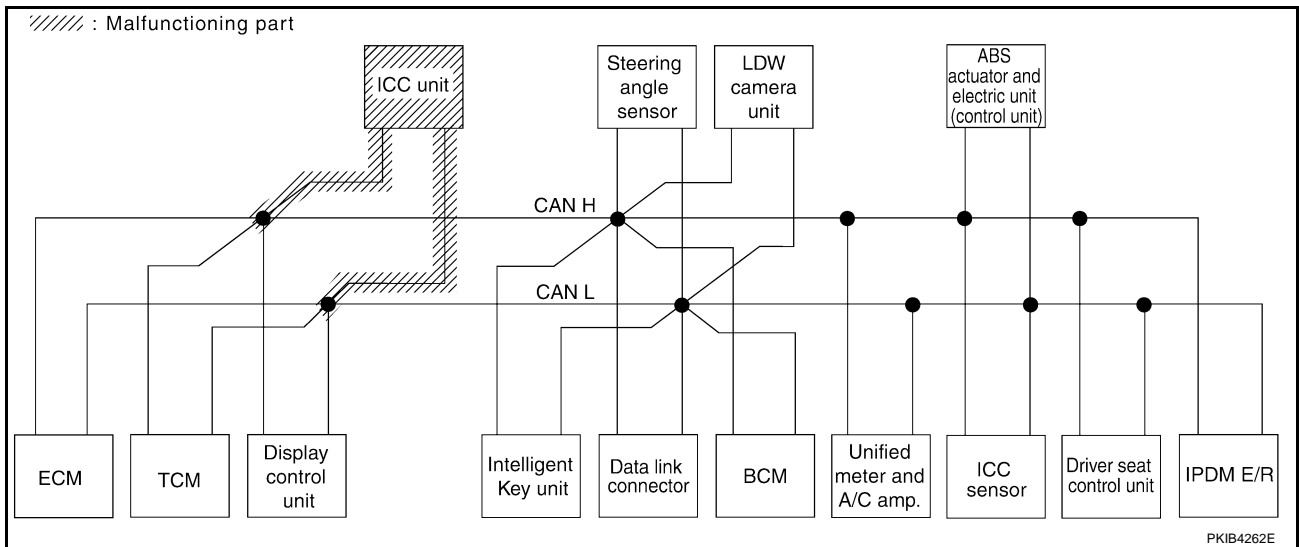
[CAN]

Case 8

Check ICC unit circuit. Refer to [LAN-204, "ICC Unit Circuit Inspection"](#).

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

PKIB4388E



PKIB4262E

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CAN SYSTEM (TYPE 4)

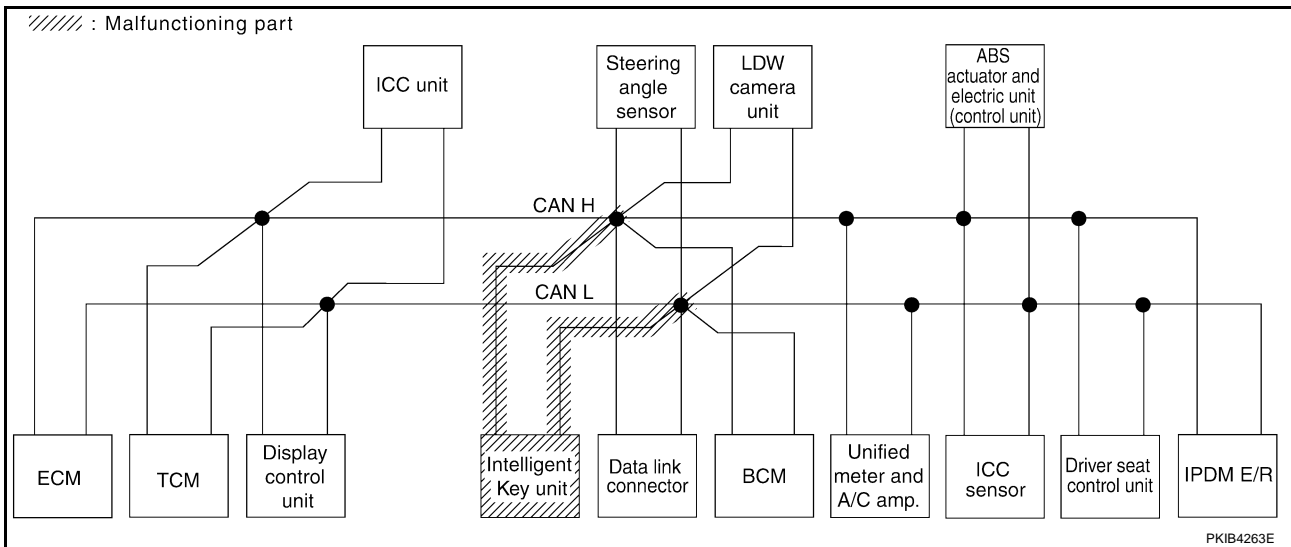
[CAN]

Case 9

Check Intelligent Key unit circuit. Refer to [LAN-205, "Intelligent Key Unit Circuit Inspection"](#).

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

PKIB4389E



PKIB4263E

CAN SYSTEM (TYPE 4)

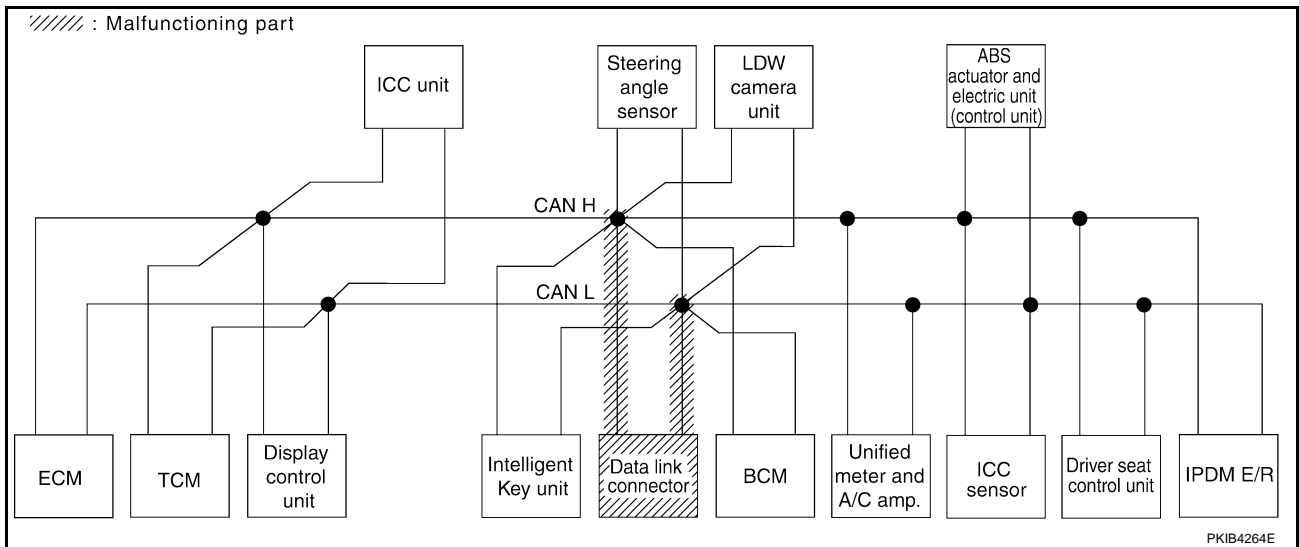
[CAN]

Case 10

Check data link connector circuit. Refer to [LAN-205, "Data Link Connector Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 4)

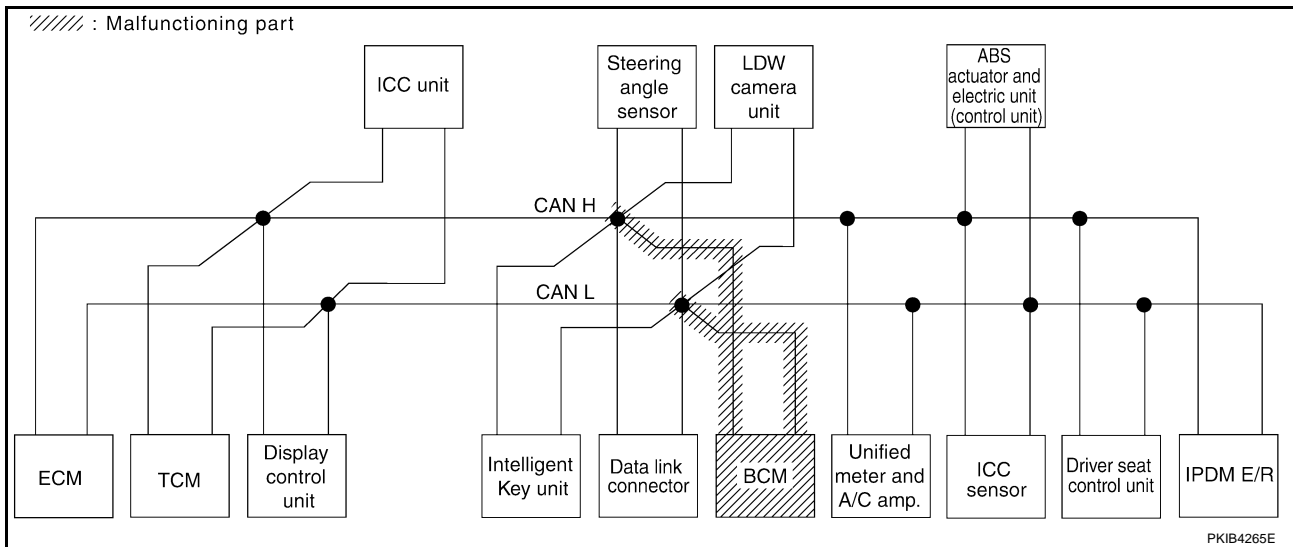
[CAN]

Case 11

Check BCM circuit. Refer to [LAN-206, "BCM Circuit Inspection"](#) .

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

PKIB4391E



PKIB4265E

CAN SYSTEM (TYPE 4)

[CAN]

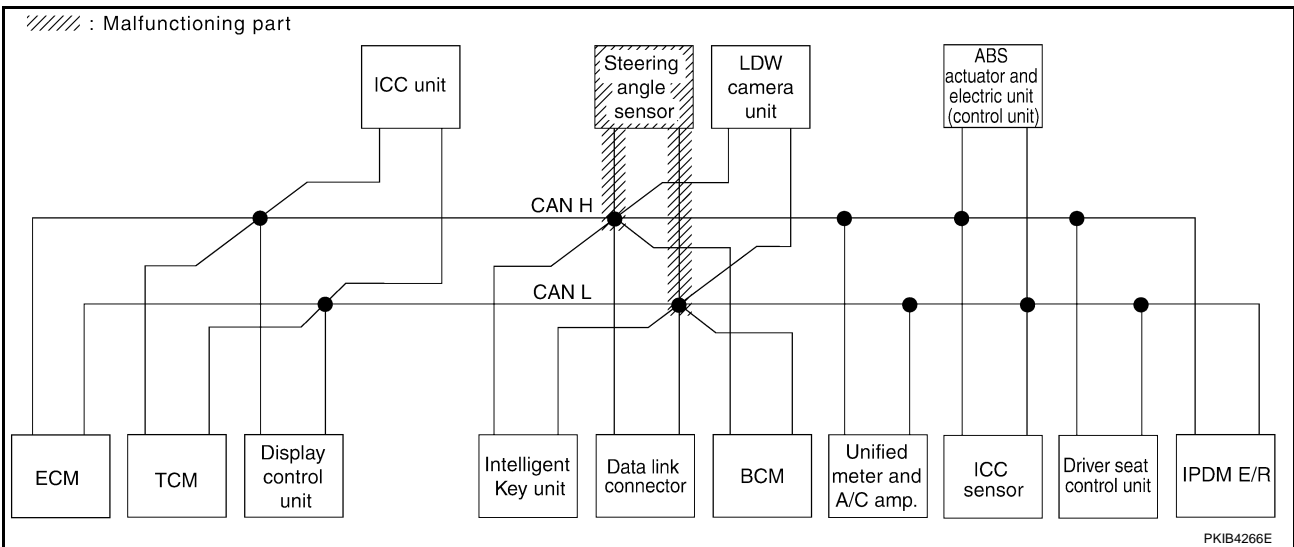
Case 12

Check steering angle sensor circuit. Refer to [LAN-206, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIB4392E



PKIB4266E

CAN SYSTEM (TYPE 4)

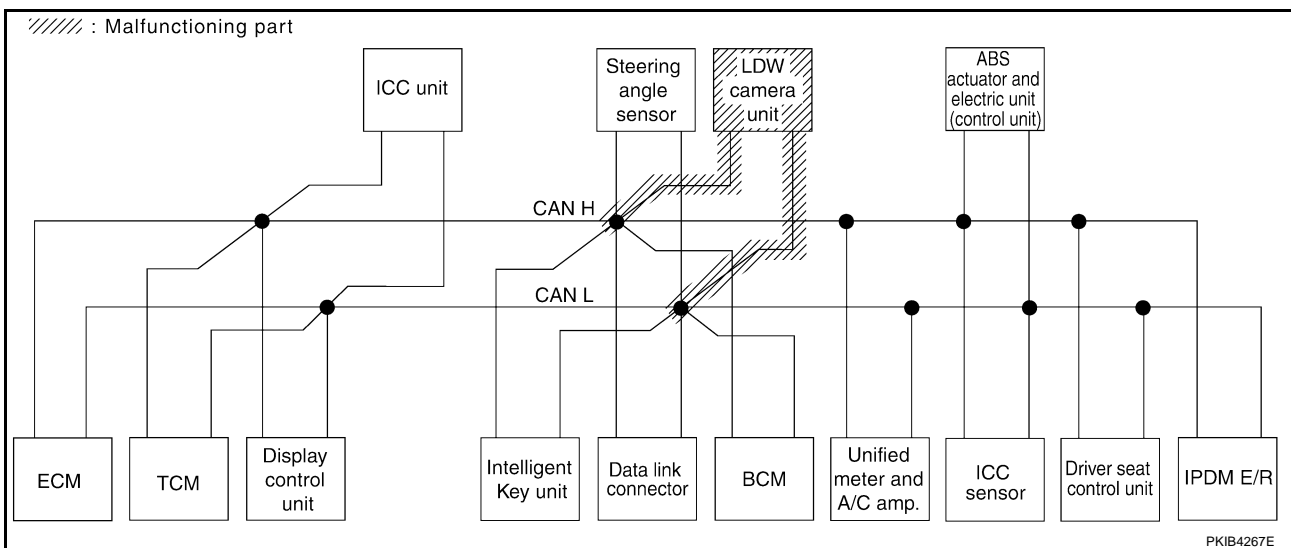
[CAN]

Case 13

Check LDW camera unit circuit. Refer to [LAN-207, "LDW Camera Unit Circuit Inspection"](#) .

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

PKIB4393E



PKIB4267E

CAN SYSTEM (TYPE 4)

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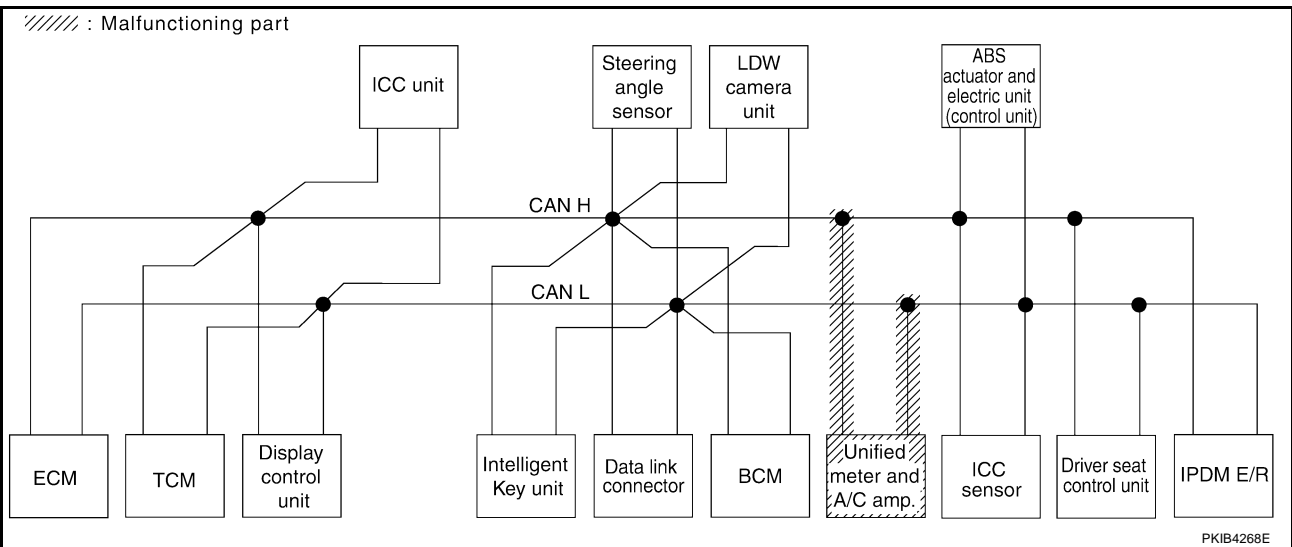
Case 14

Check unified meter and A/C amp. circuit. Refer to [LAN-208, "Unified Meter and A/C Amp. Circuit Inspection"](#).

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

PKIB4394E



PKIB4268E

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CAN SYSTEM (TYPE 4)

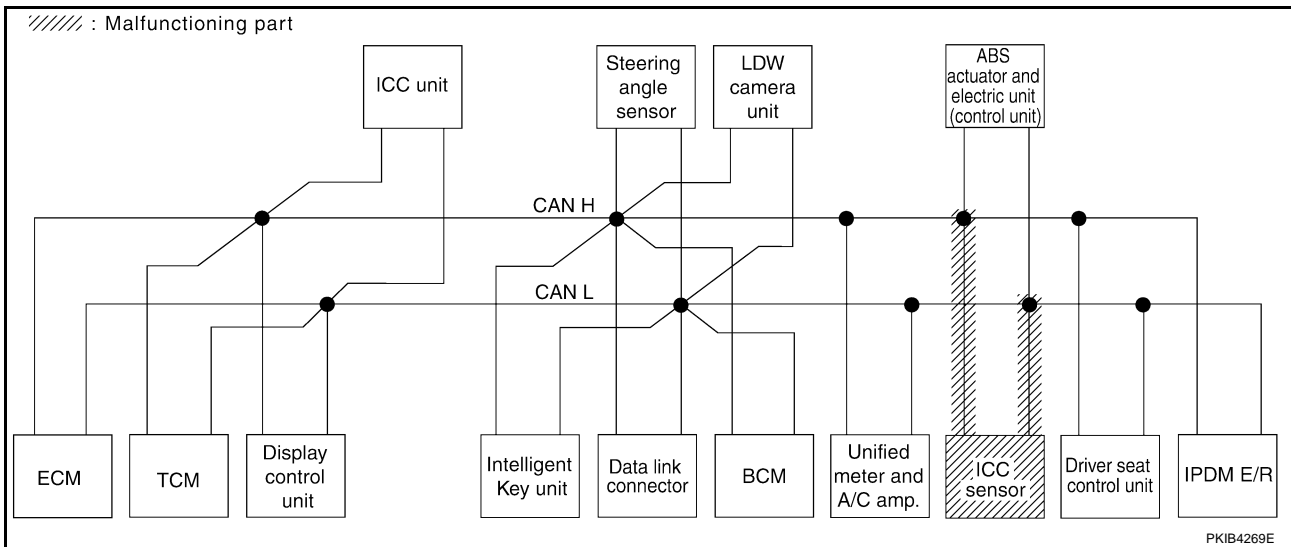
[CAN]

Case 15

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

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

PKIB4395E



PKIB4269E

CAN SYSTEM (TYPE 4)

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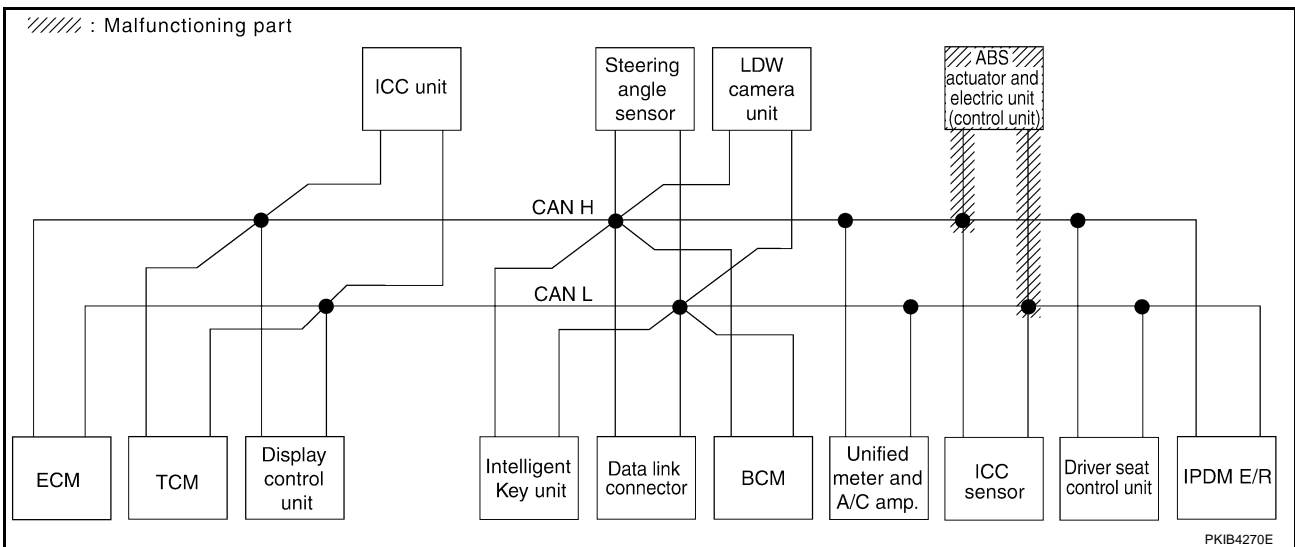
Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-209, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS				
	Initial diagnosis	Transmit diagnosis	Receive diagnosis																
			ECM	TCM	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R						
ENGINE	—	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	✓	✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
ABS	—	✓	✓	✓	✓	—	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—

PKIB4396E



CAN SYSTEM (TYPE 4)

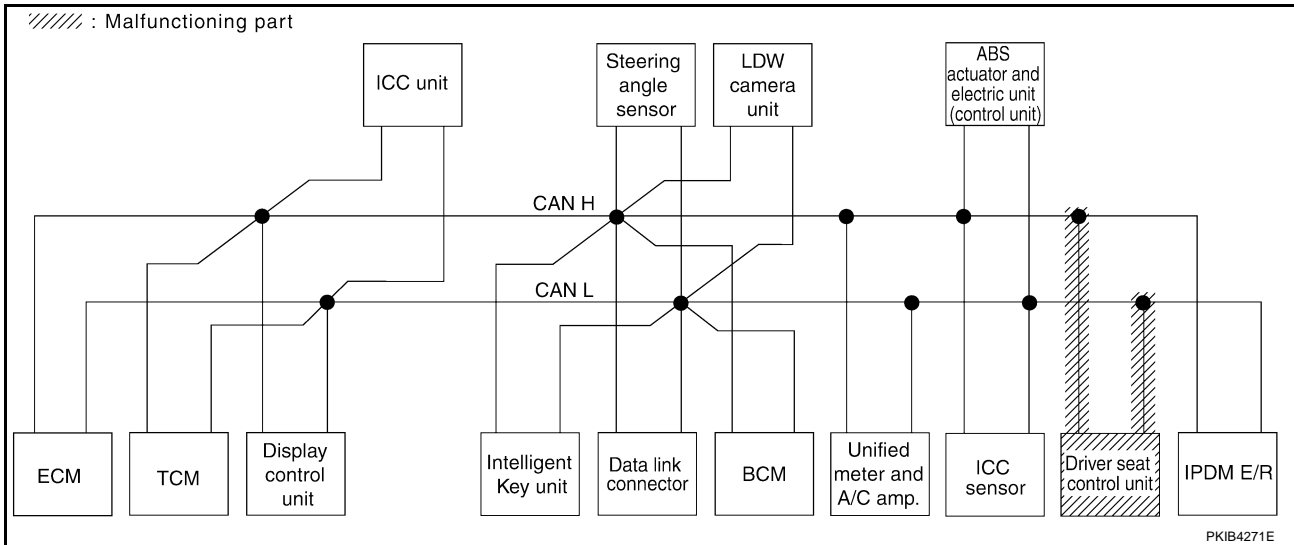
[CAN]

Case 17

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

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

PKIB4397E



PKIB4271E

CAN SYSTEM (TYPE 4)

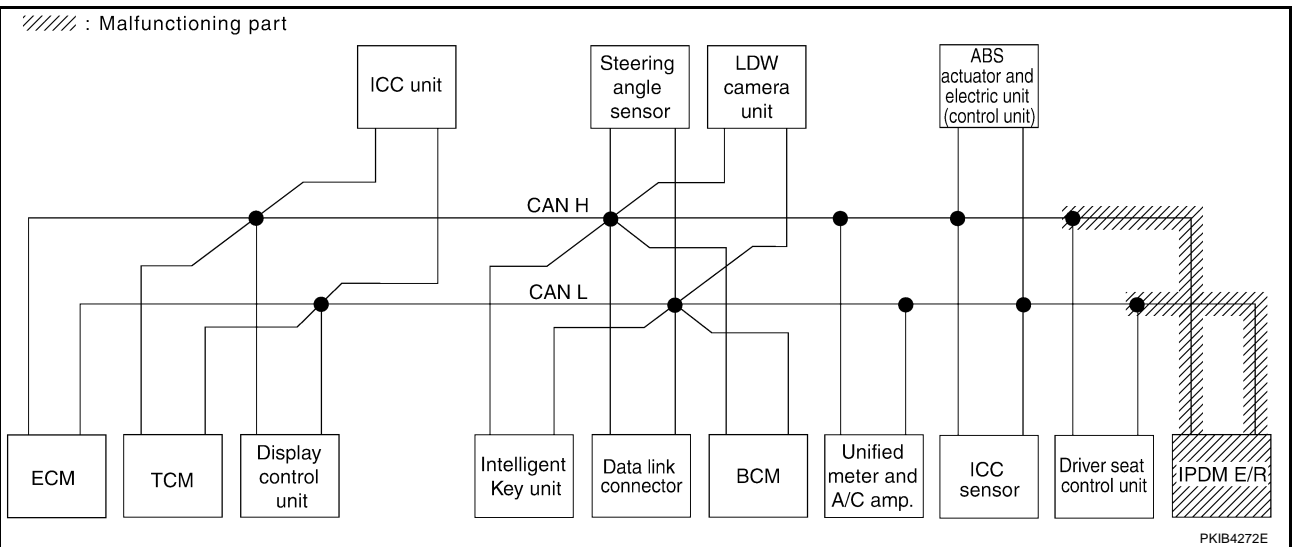
[CAN]

Case 18

Check IPDM E/R circuit. Refer to [LAN-210, "IPDM E/R Circuit Inspection"](#) .

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

PKIB4398E



PKIB4272E

CAN SYSTEM (TYPE 4)

[CAN]

Case 19

Check CAN communication circuit. Refer to [LAN-211, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	✓	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	✓	✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	✓	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	✓	—
INTELLIGENT KEY	N indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	✓	—
BCM	N indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	✓	—
LDW	N indication	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	—	✓	—
METER A/C AMP	N indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	✓	—
ABS	—	✓	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	✓	—
AUTO DRIVE POS.	N indication	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	—	✓	—
IPDM E/R	N indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	—	✓	—

PKIB4399E

CAN SYSTEM (TYPE 4)

[CAN]

Case 20

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-218, "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	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—

PKIB4400E

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Case 21

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-218, "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	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R
ENGINE	—	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4401E

Inspection Between TCM and Data Link Connector Circuit

AKS00CDQ

1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

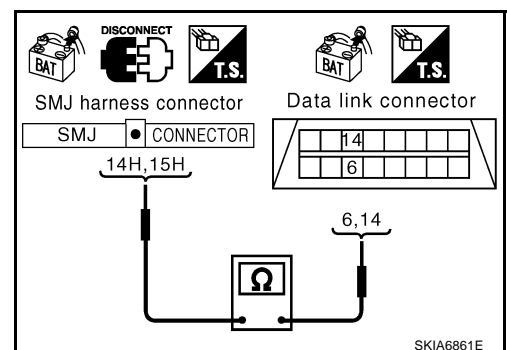
14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .

NG >> Repair harness.



SKIA6861E

Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

AKS00CDR

1. CHECK HARNESS FOR OPEN CIRCUIT

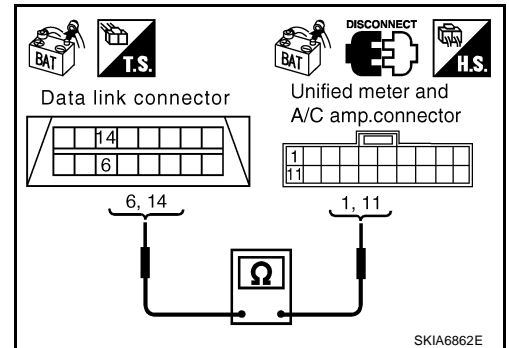
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.

14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

AKS00CDS

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 M41
 - Harness connector E211

OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

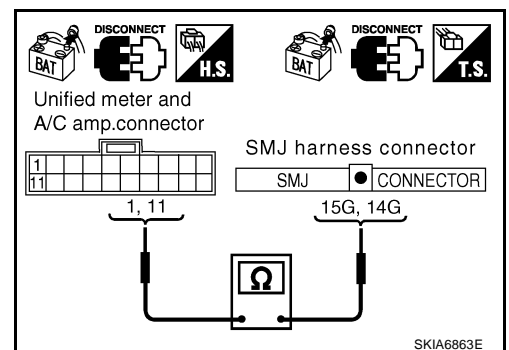
1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.

11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



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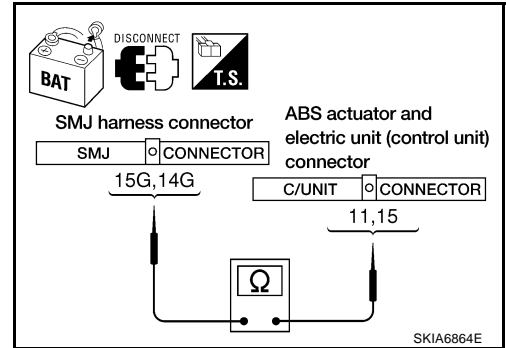
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.
14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



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

AKS00CDT

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 E205
 - Harness connector B5

OK or NG

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

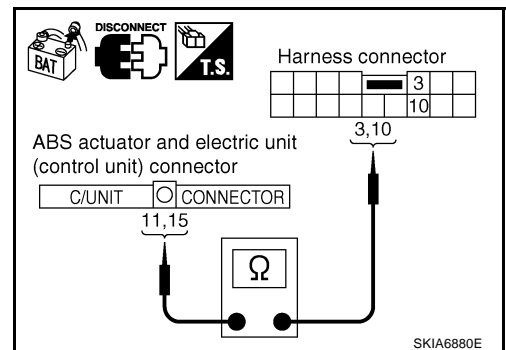
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and harness connector E205 terminals 3 (L), 10 (R).

11 (L) - 3 (L) : Continuity should exist.
15 (R) - 10 (R) : Continuity should exist.

OK or NG

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



3. CHECK HARNESS FOR OPEN CIRCUIT

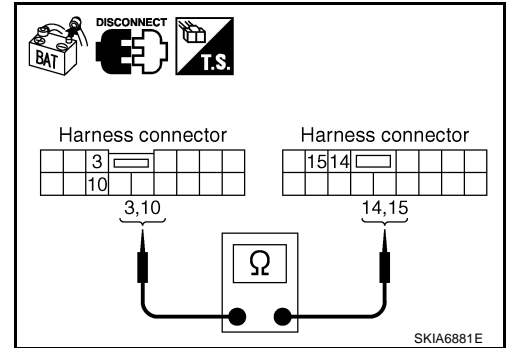
1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L), 10 (R) and harness connector B8 terminals 14 (L), 15 (R).

3 (L) - 14 (L) : Continuity should exist.

10 (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



AKS00CDU

ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

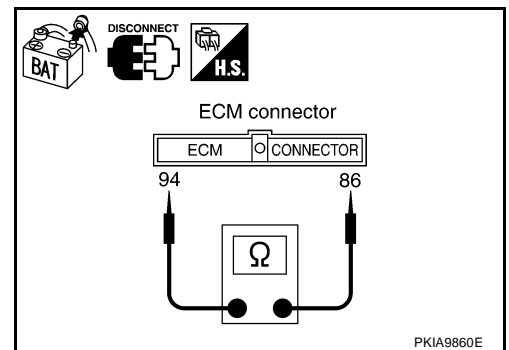
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and harness connector M82.



AKS00CDV

TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

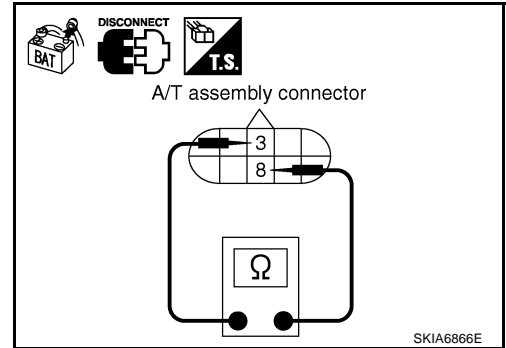
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



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.

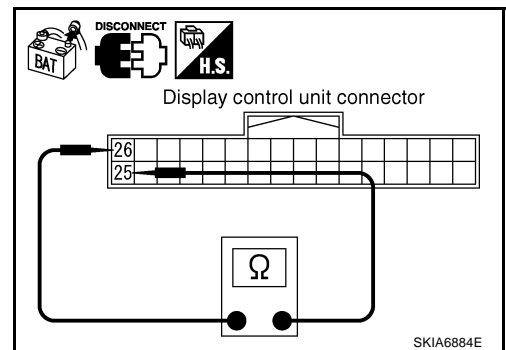
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display control unit connector.
2. Check resistance between display control unit harness connector M76 terminals 25 (L) and 26 (R).

25 (L) - 26 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit and harness connector M82.



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.

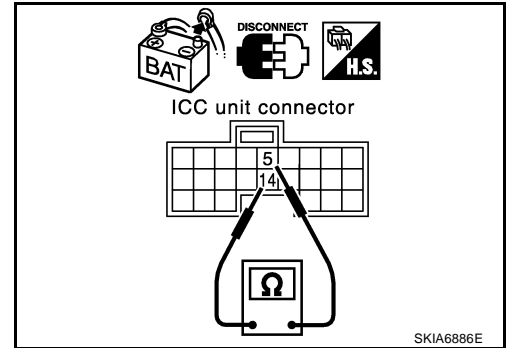
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC unit connector.
2. Check resistance between ICC unit harness connector M88 terminals 14 (L) and 5 (R).

14 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ICC unit.
 NG >> Repair harness between ICC unit and harness connector M82.



AKS00CDY

Intelligent Key Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

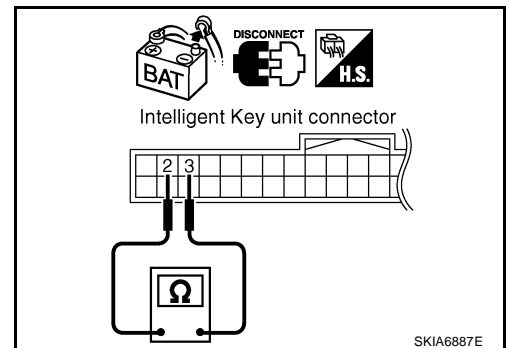
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector M34 terminals 2 (L) and 3 (R).

2 (L) - 3 (R) : Approx. 54 - 66Ω

OK or NG

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



AKS00CDZ

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

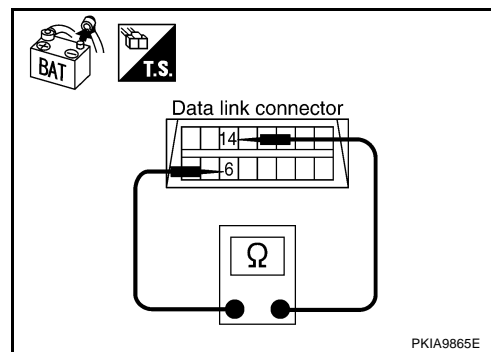
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness between data link connector and BCM.



AKS00CE0

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.

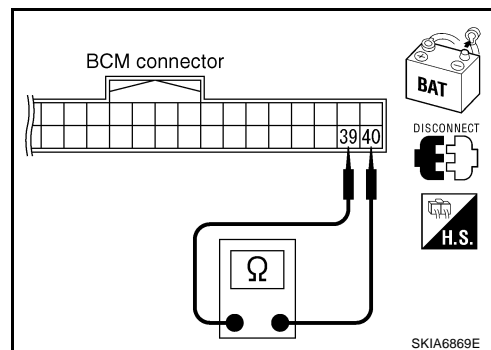
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and data link connector.



AKS00CE1

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.

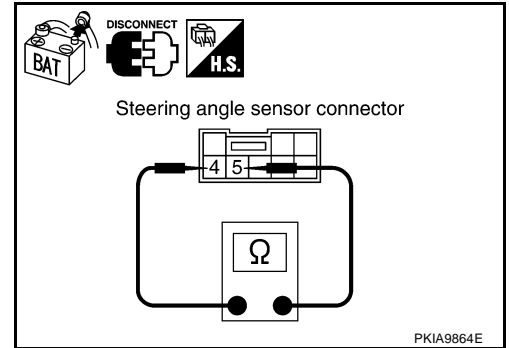
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



LDW Camera 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 (unit side and harness side).
 - LDW camera unit connector
 - Harness connector R1
 - Harness connector M31

OK or NG

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

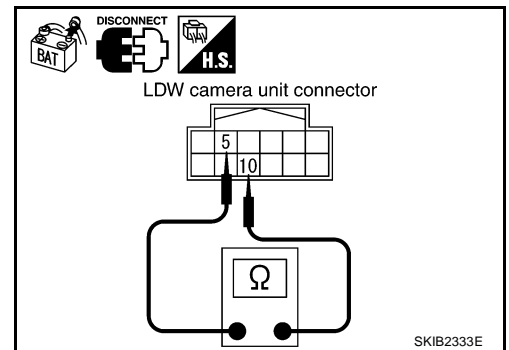
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check resistance between LDW camera unit harness connector R9 terminals 10 (L) and 5 (R).

10 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace LDW camera unit.
 NG >> GO TO 3.



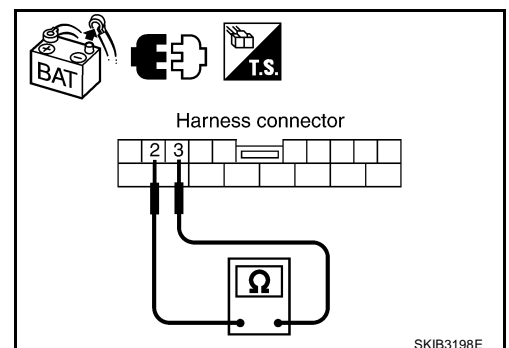
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector R1.
2. Check resistance between harness connector M31 terminals 2 (L) and 3 (R).

2 (L) - 3 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
 NG >> Replace harness between LDW camera unit and harness connector R1.



Unified Meter and A/C Amp. Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

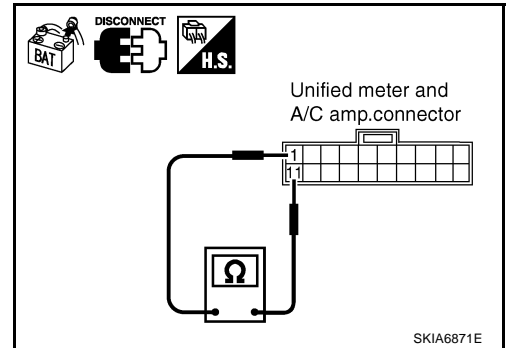
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



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.

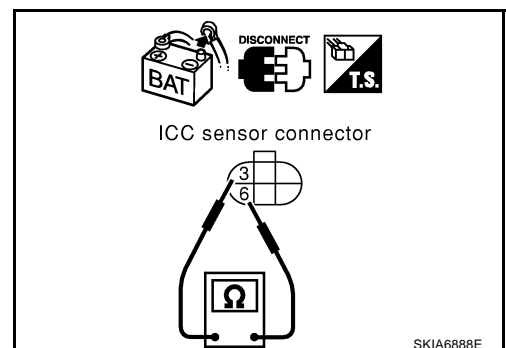
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC sensor connector.
2. Check resistance between ICC sensor harness connector E39 terminals 3 (L) and 6 (R).

3 (L) - 6 (R) : Approx. 54 - 66Ω

OK or NG

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



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.

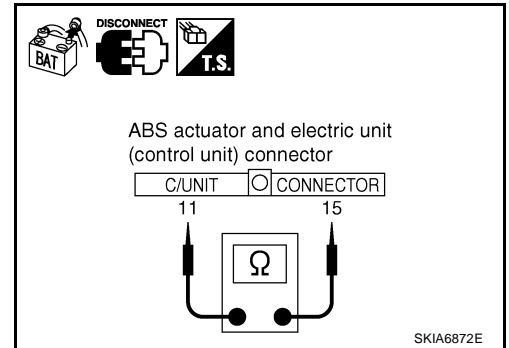
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

OK or NG

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

**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 B151
 - Harness connector B8

OK or NG

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

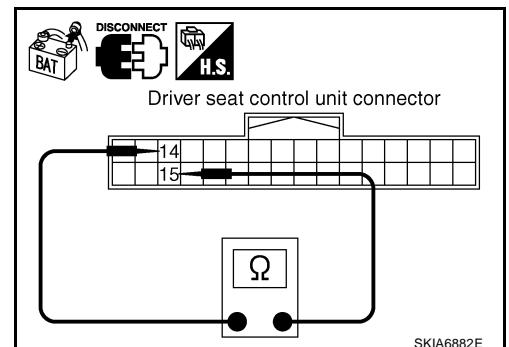
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit and harness connector B5.



IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

OK or NG

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

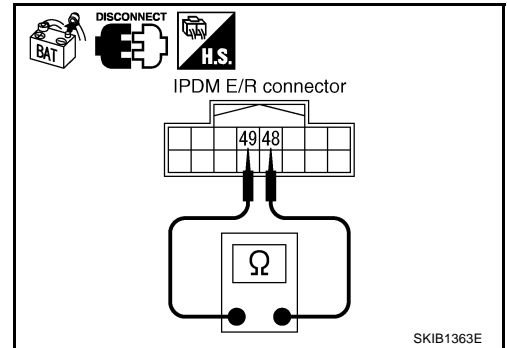
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R and harness connector B8.



CAN Communication Circuit Inspection**1. CHECK CONNECTOR**

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

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2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display control unit connector
 - ICC unit connector
 - Intelligent Key unit connector
 - BCM connector
 - Steering angle sensor connector
 - Harness connector M31
 - Unified meter and A/C amp. connector
 - Harness connector M41
2. Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

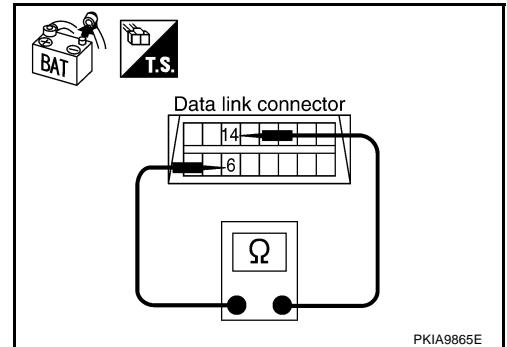
6 (L) - 14 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display control unit
- Harness between data link connector and ICC unit
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and harness connector M31
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

6 (L) - Ground : Continuity should not exist.

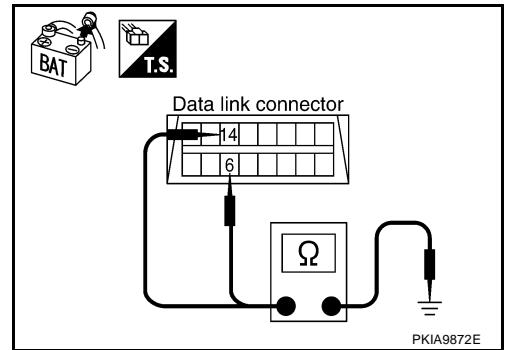
14 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display control unit
- Harness between data link connector and ICC unit
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and harness connector M31
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



4. CHECK HARNESS FOR SHORT CIRCUIT

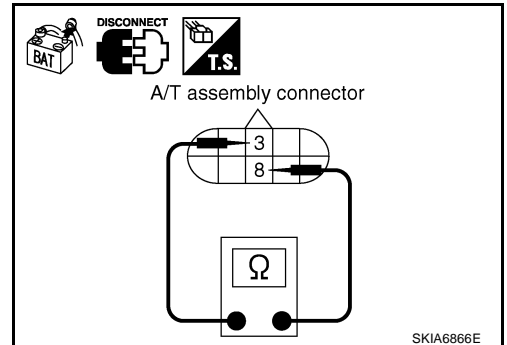
1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 5.

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



5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

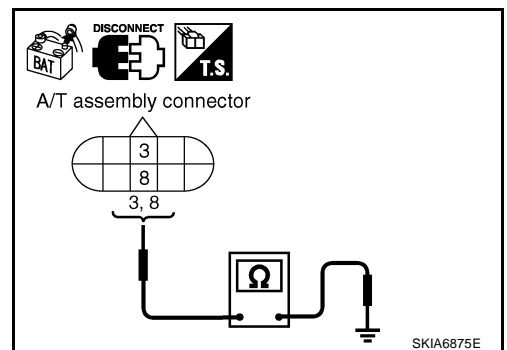
3 (L) - Ground : Continuity should not exist.

8 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 6.

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



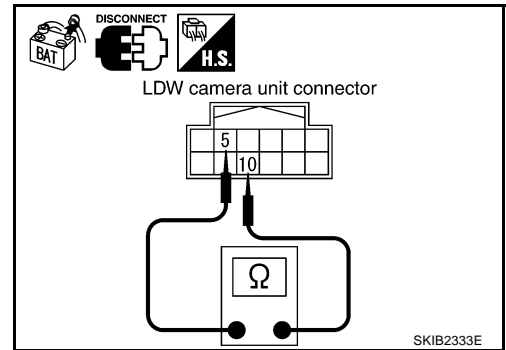
6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check continuity between LDW camera unit harness connector R9 terminals 10 (L) and 5 (R).

10 (L) - 5 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 7.
 NG >> Replace harness between LDW camera unit and harness connector R1.



7. CHECK HARNESS FOR SHORT CIRCUIT

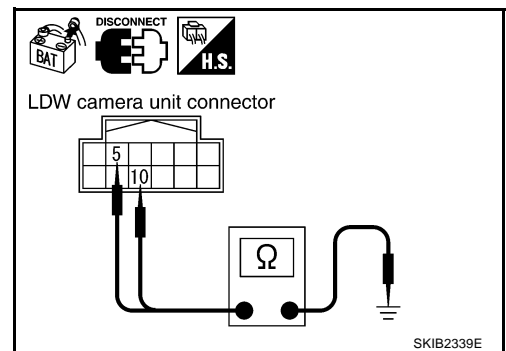
Check continuity between LDW camera unit harness connector R9 terminals 10 (L), 5 (R) and ground.

10 (L) - Ground : Continuity should not exist.

5 (R) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 8.
 NG >> Replace harness between LDW and harness connector R1.



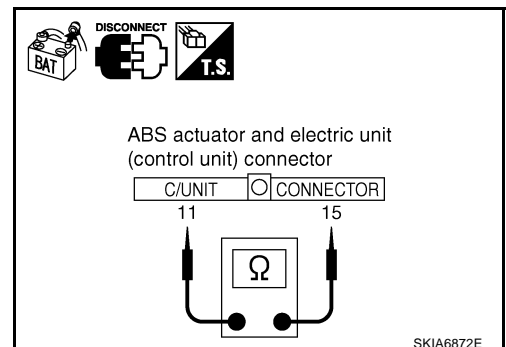
8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ICC sensor connector
 - ABS actuator and electric unit (control unit) connector
 - Harness connector E205
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 9.
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ABS actuator and electric unit (control unit) and harness connector E211
 - Harness between ABS actuator and electric unit (control unit) and ICC sensor
 - Harness between ABS actuator and electric unit (control unit) and harness connector E205



9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

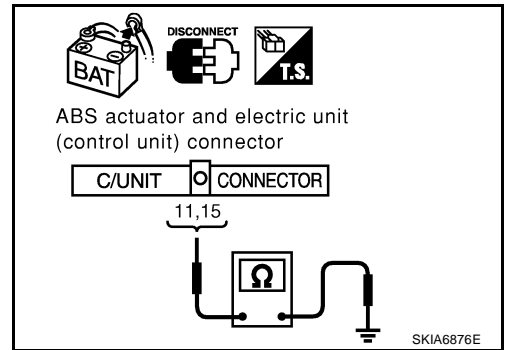
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and ICC sensor
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

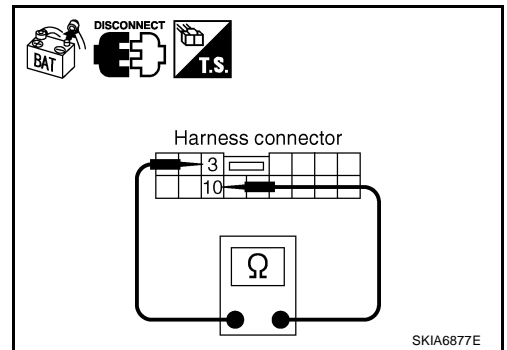
3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 11.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

3 (L) - Ground : Continuity should not exist.

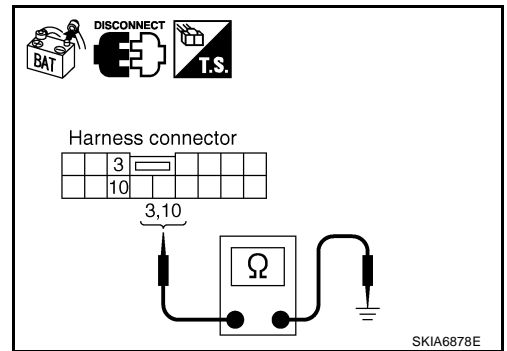
10 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 12.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



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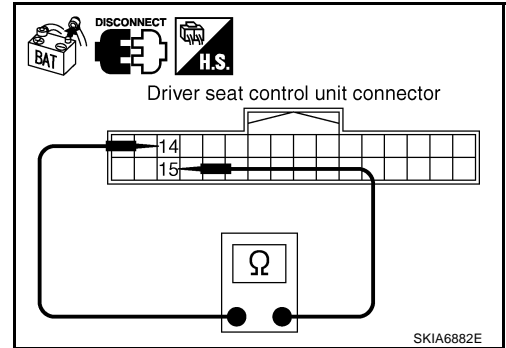
12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Continuity should not exist.

OK or NG

- OK >> GO TO 13.
 NG >> Repair harness between driver seat control unit and harness connector B151.



13. CHECK HARNESS FOR SHORT CIRCUIT

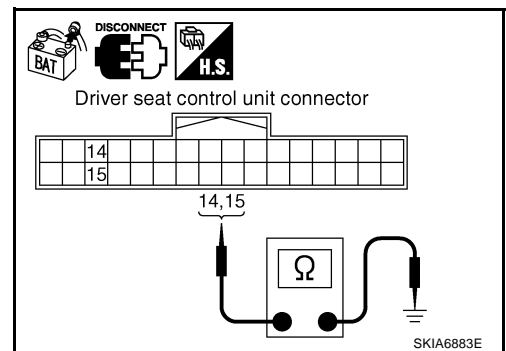
Check continuity between driver seat control unit harness connector B152 terminals 14 (OR), 15 (SB) and ground.

14 (OR) - Ground : Continuity should not exist.

15 (SB) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 14.
 NG >> Repair harness between driver seat control unit and harness connector B151.



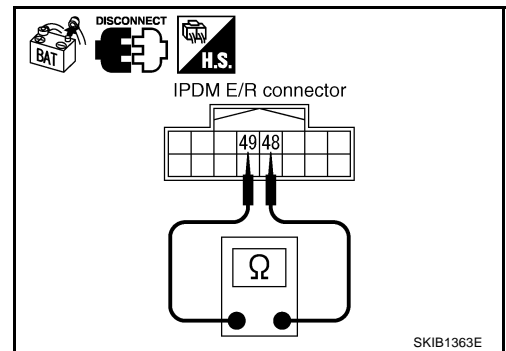
14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 15.
 NG >> Repair harness between IPDM E/R and harness connector E205.



15. CHECK HARNESS FOR SHORT CIRCUIT

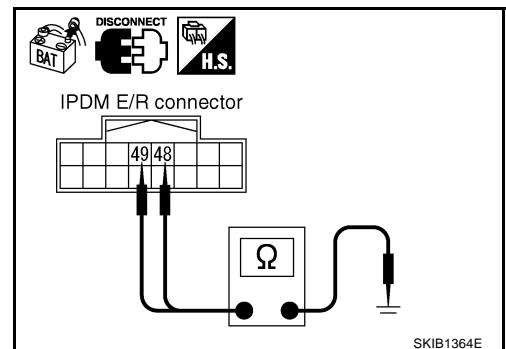
Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 16.
 NG >> Repair harness between IPDM E/R and harness connector E205.



16. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.

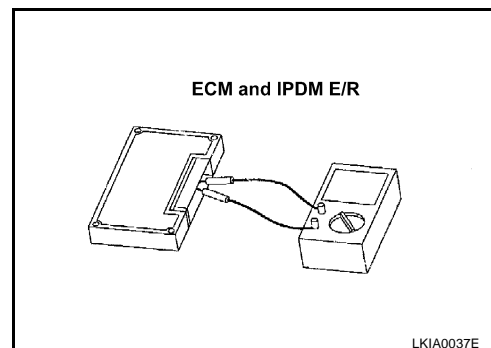
94 - 86 : Approx. 108 - 132Ω

3. Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

OK or NG

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



17. CHECK SYMPTOM

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

OK or NG

- OK >> GO TO 18.
 NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

18. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

IPDM E/R Ignition Relay Circuit Inspection

AKS00CE9

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-12, "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START" "](#) .

CAN SYSTEM (TYPE 5)

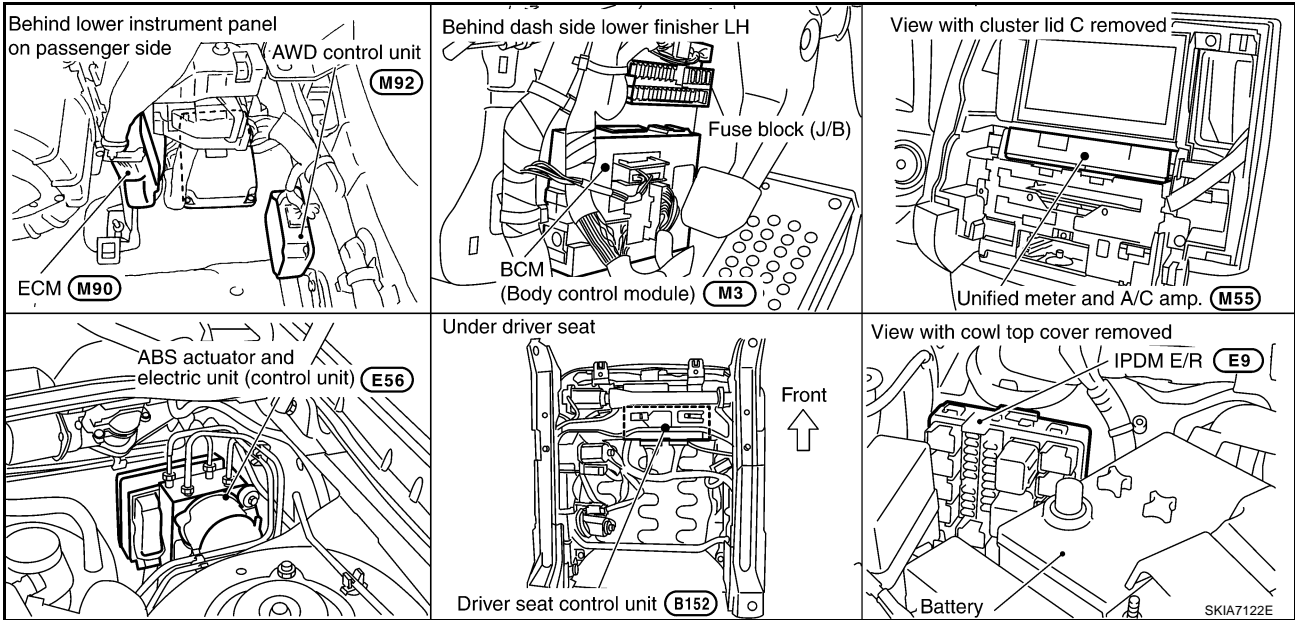
[CAN]

PFP:23710

AKS00CD1

CAN SYSTEM (TYPE 5)

Component Parts and Harness Connector Location



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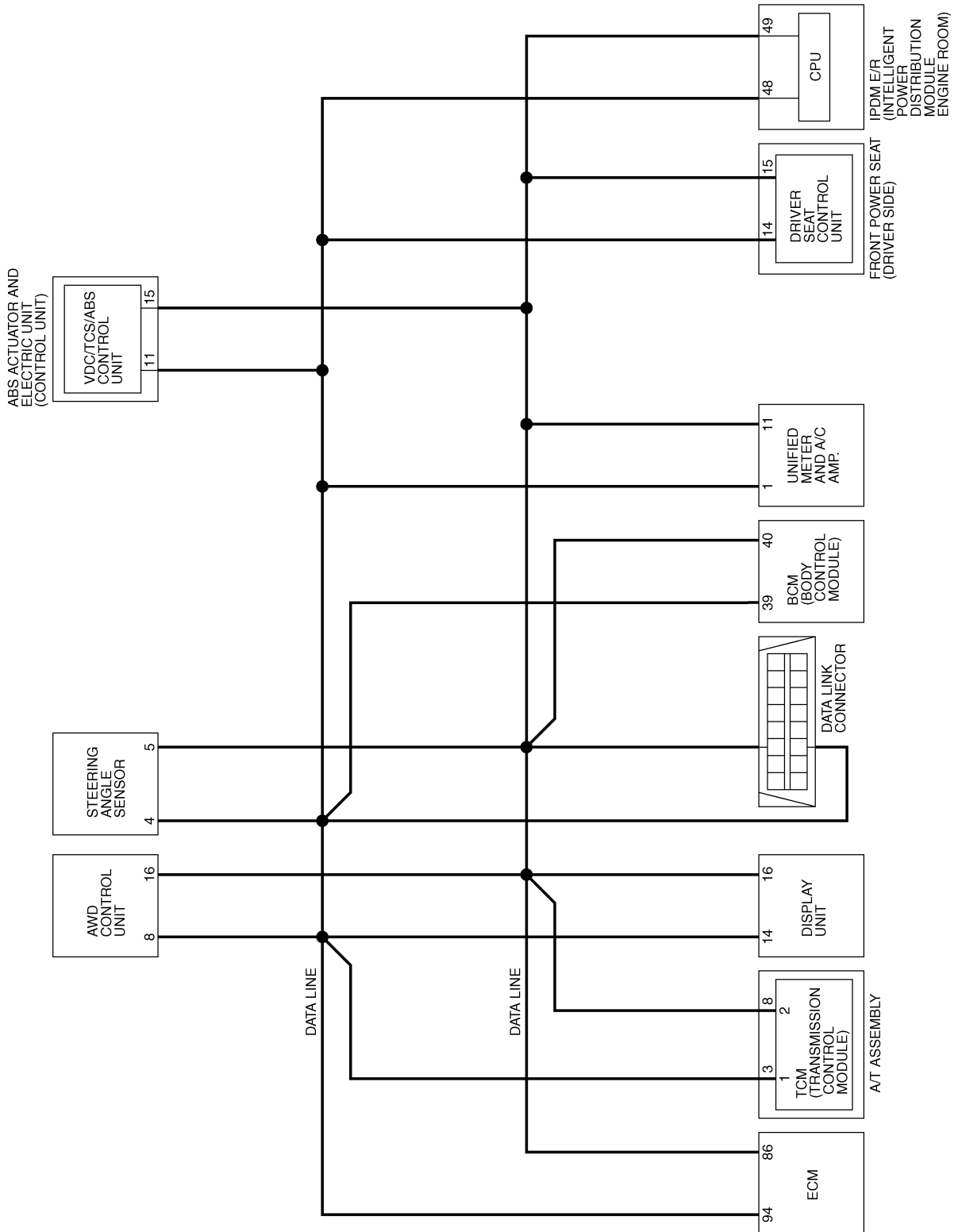
LAN

CAN SYSTEM (TYPE 5)

[CAN]

Schematic

AKS00CD2



TKWM2363E

CAN SYSTEM (TYPE 5)

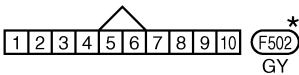
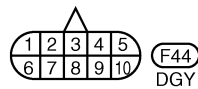
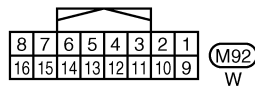
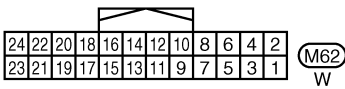
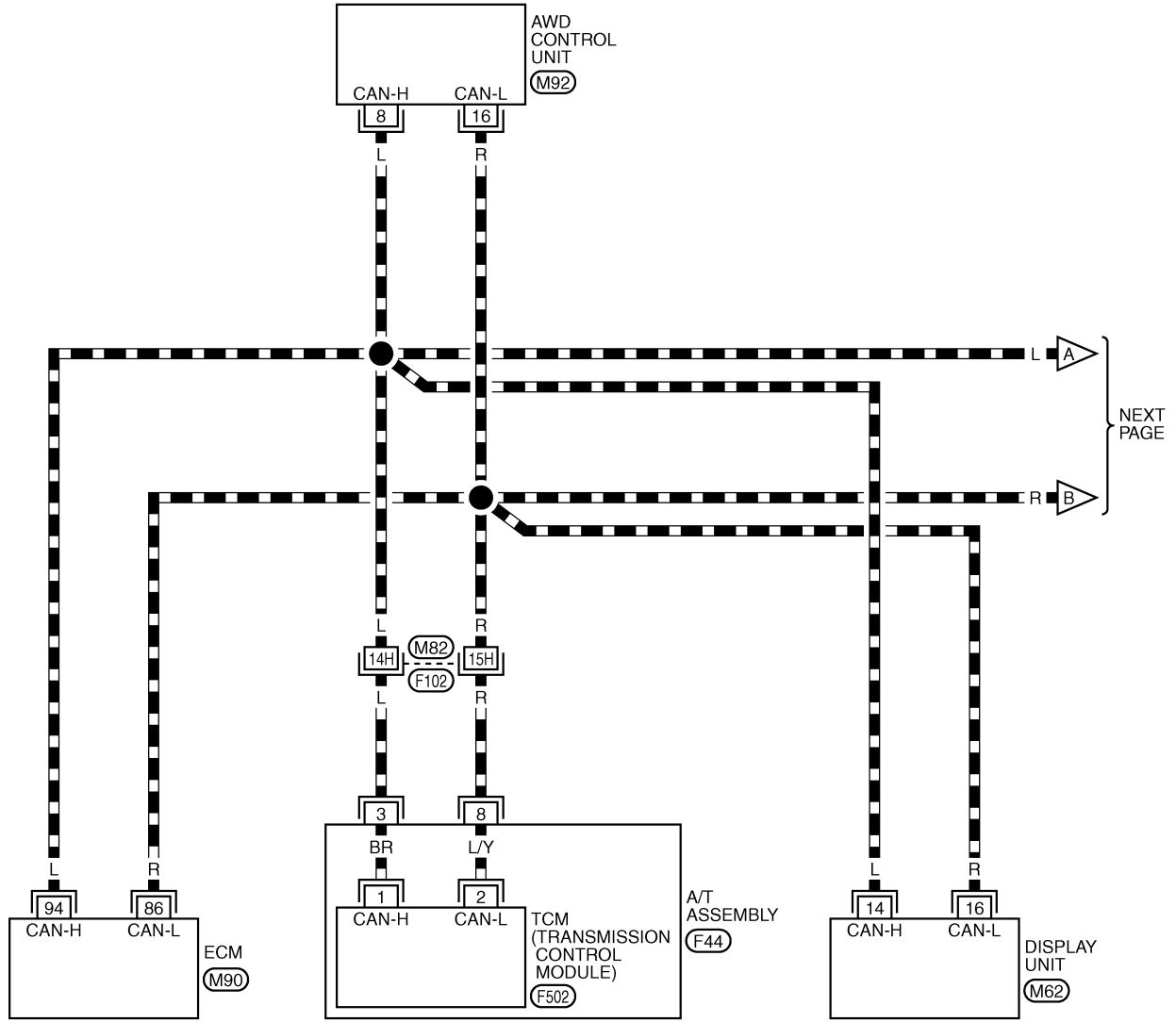
[CAN]

Wiring Diagram - CAN -

AKS00CD3

LAN-CAN-13

▬ : DATA LINE



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

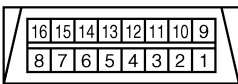
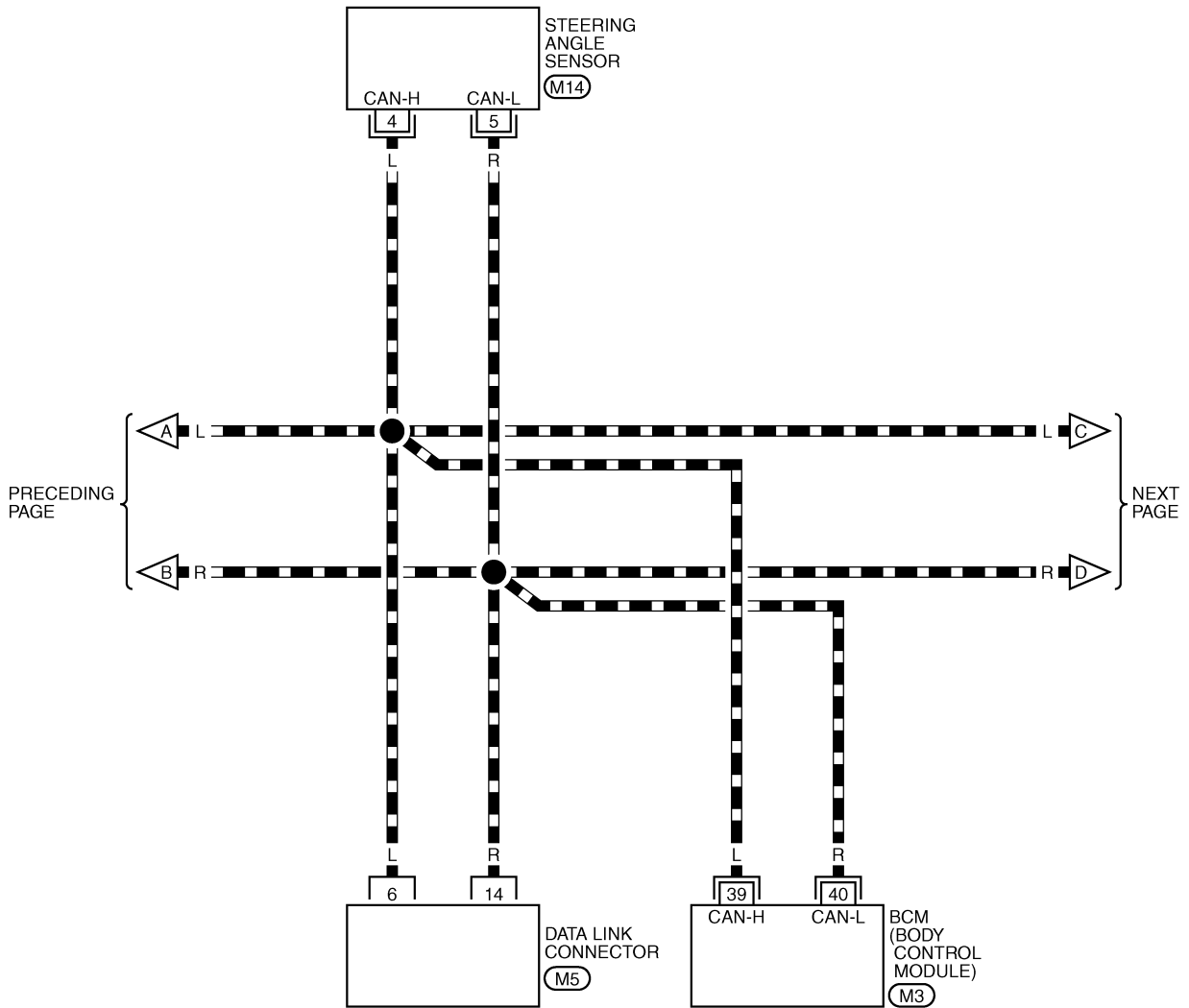
(M90) -ELECTRICAL UNITS

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

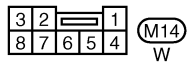
TKWM2364E

LAN-CAN-14

▬ : DATA LINE



(M5)
W



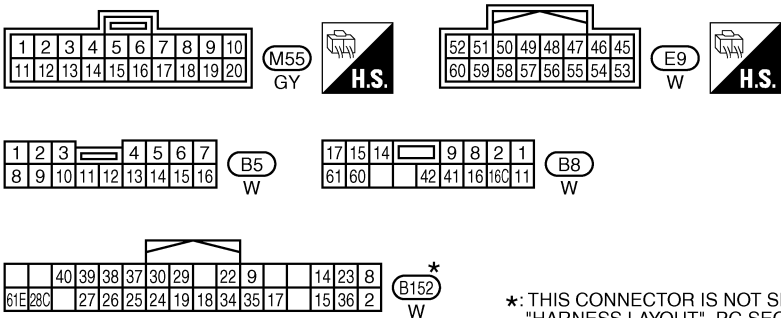
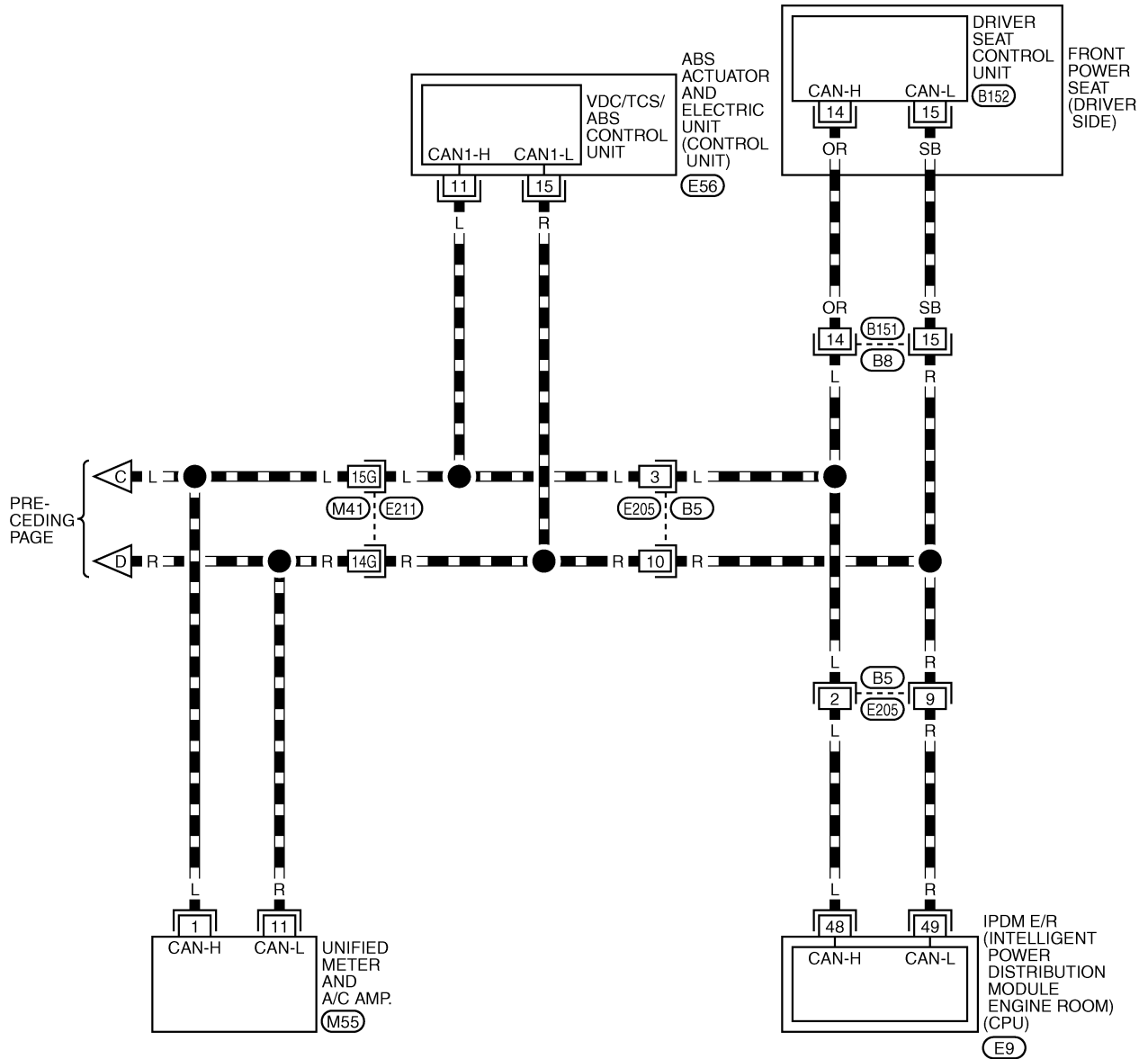
(M14)
W

REFER TO THE FOLLOWING.
(M3) -ELECTRICAL UNITS

TKWM2365E

LAN-CAN-15

▬ : DATA LINE



REFER TO THE FOLLOWING.

- (E21) -SUPER MULTIPLE JUNCTION (SMJ)
- (E56) -ELECTRICAL UNITS

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

TKWM2366E

CAN SYSTEM (TYPE 5)

[CAN]

AKS00CD4

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

PKIB4348E

CAN SYSTEM (TYPE 5)

[CAN]

Display unit Translation Sheet: Rewrite the following names, and put a check mark on the check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CANCOMM	Initial diagnosis	CAN5	METER/M&A
CAN1	Transmit diagnosis	CAN6	—
CAN2	BCM/SEC	CAN7	IPDM E/R
CAN3	ECM	CAN8	—
CAN4	—	CAN9	—

Attach copy of
display unit
CAN DIAG MONITOR check sheet

PKIB5984E

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CAN SYSTEM (TYPE 5)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

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

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
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
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

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

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIB4349E

CAN SYSTEM (TYPE 5)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

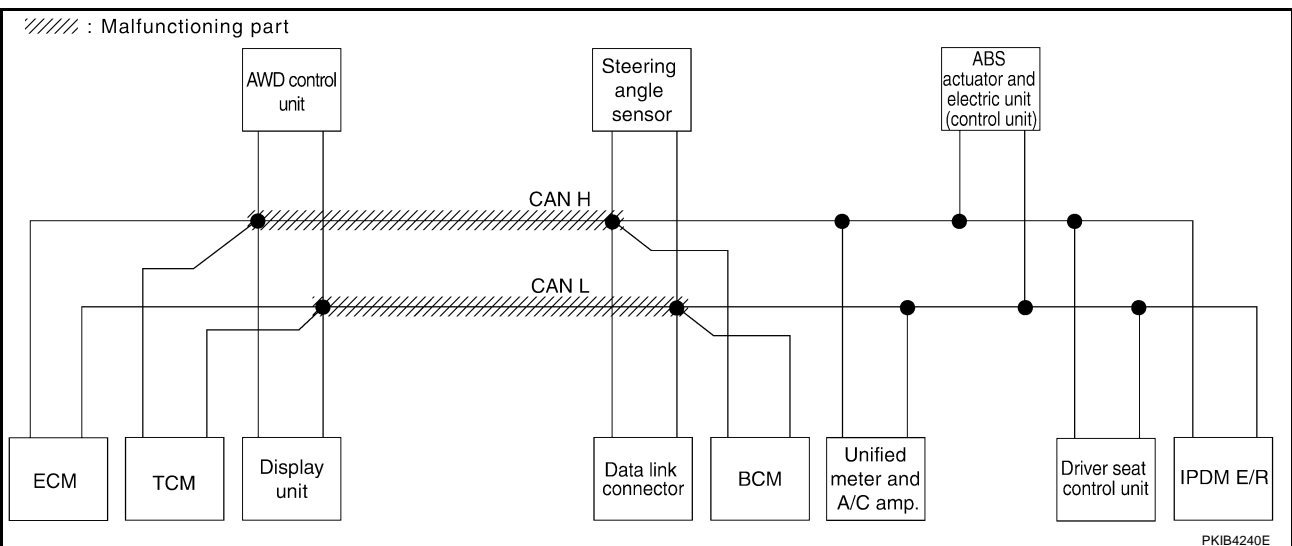
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to [LAN-244, "Inspection Between TCM and Data Link Connector Circuit"](#).

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

PKIB5928E



PKIB4240E

CAN SYSTEM (TYPE 5)

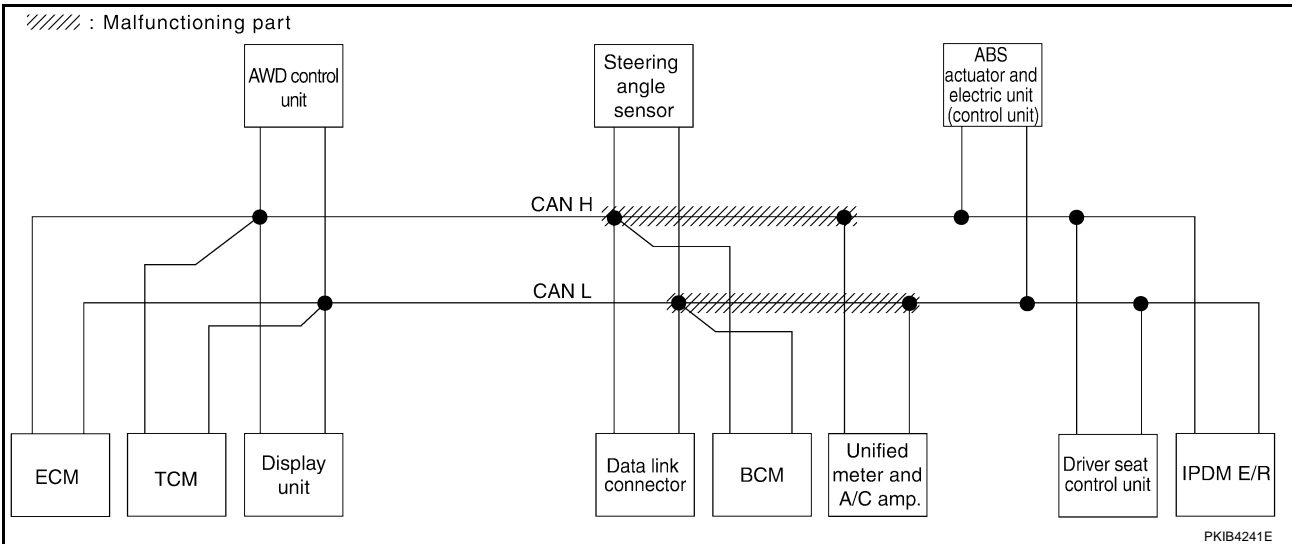
[CAN]

Case 2

Check harness between data link connector and unified meter and A/C amp. Refer to [LAN-245, "Inspection Between Data Link Connector and Unified Meter and A/C Amp. 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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R							
ENGINE	—	NG	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) ✓	—
Display unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication ✓	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIB5929E



PKIB4241E

CAN SYSTEM (TYPE 5)

[CAN]

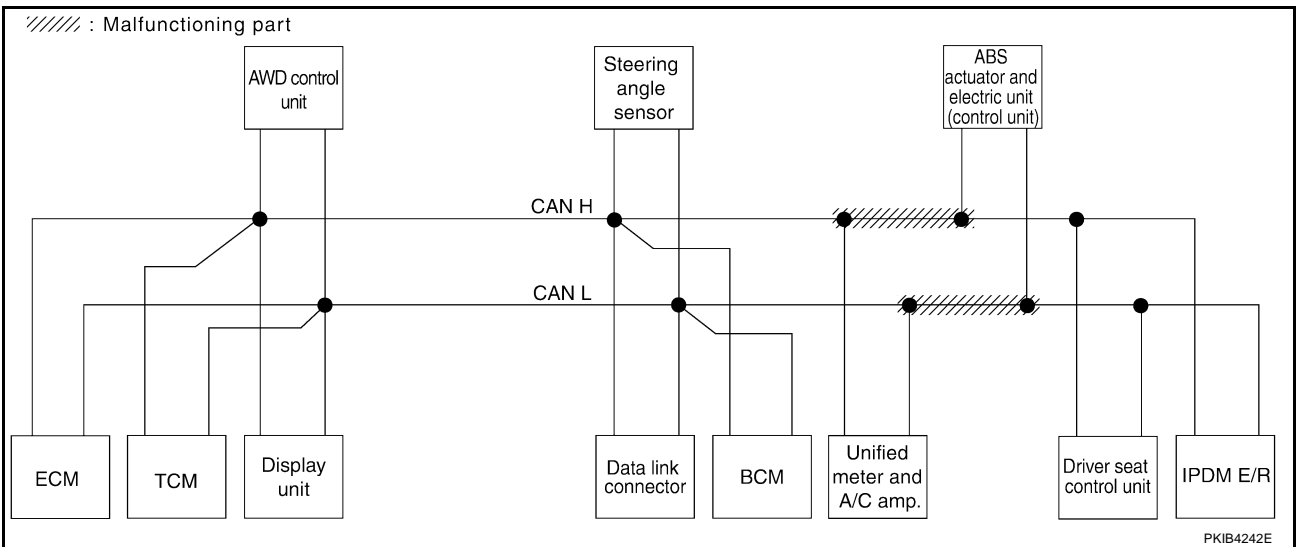
Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to [LAN-245, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

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

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CAN SYSTEM (TYPE 5)

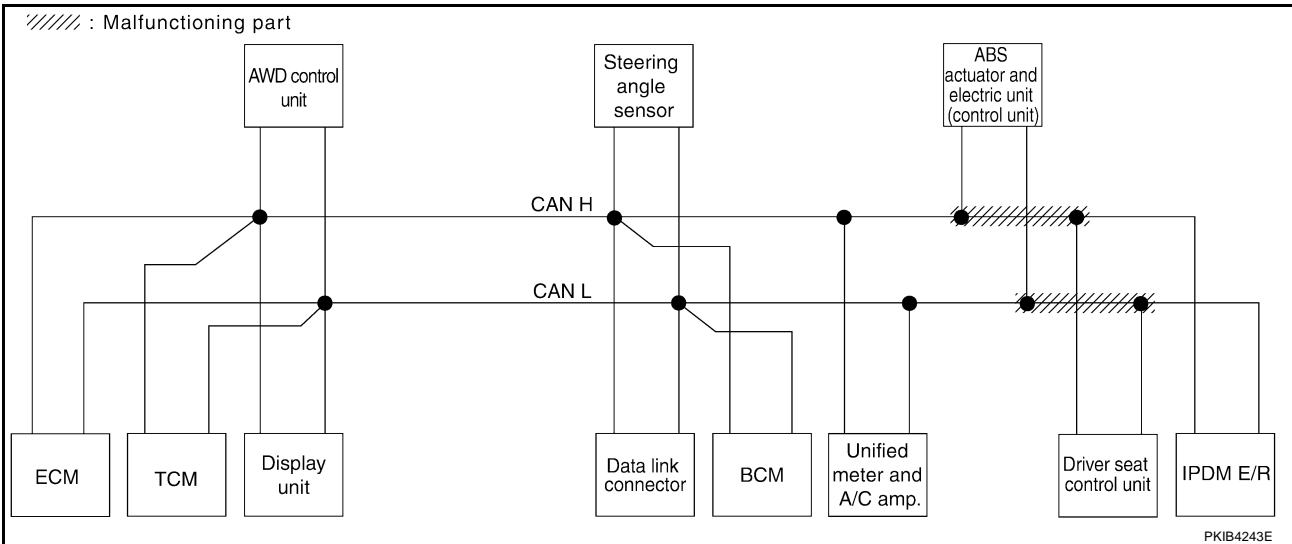
[CAN]

Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to [LAN-246, "Inspection Between ABS Actuator and Electric Unit \(Control Unit\) and Driver Seat Control Unit Circuit"](#) .

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

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CAN SYSTEM (TYPE 5)

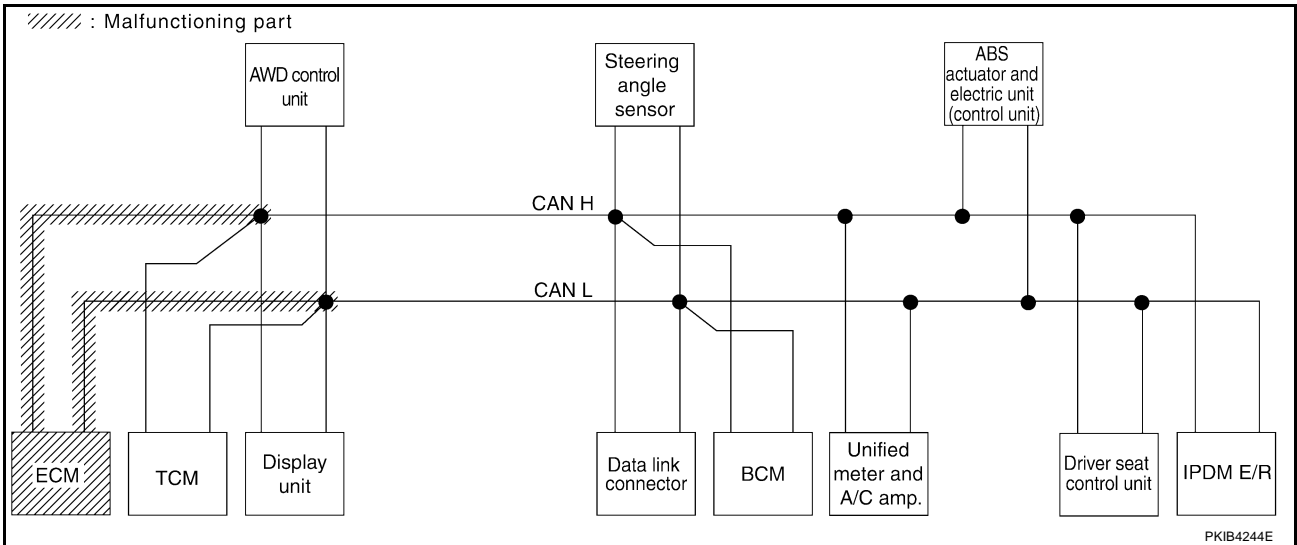
[CAN]

Case 5

Check ECM circuit. Refer to [LAN-247, "ECM Circuit Inspection"](#).

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

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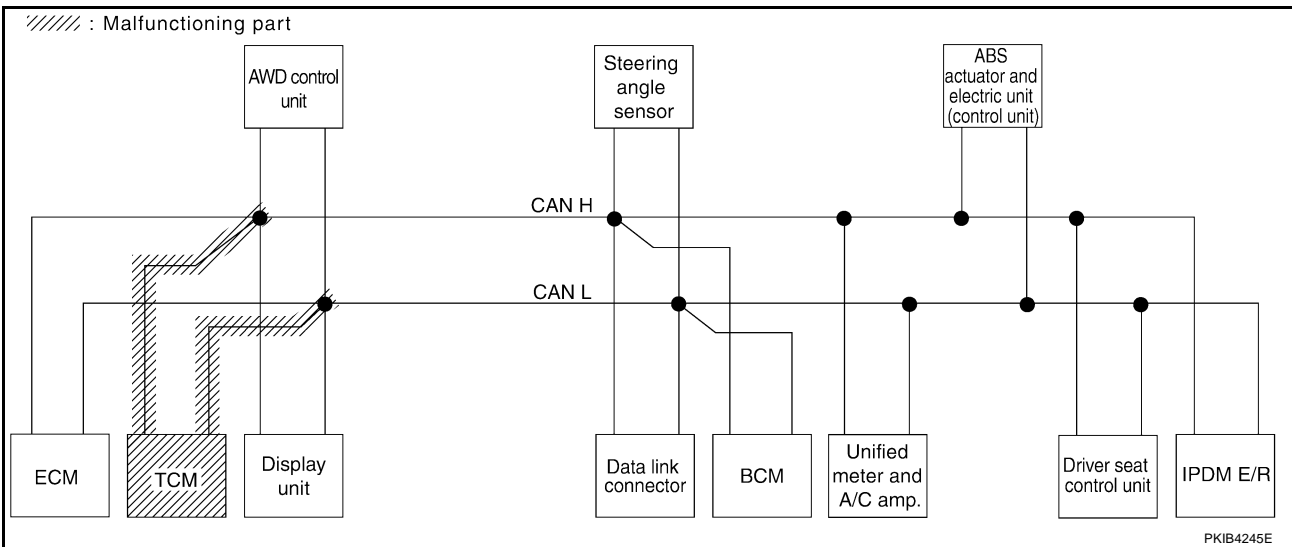
[CAN]

Case 6

Check TCM circuit. Refer to [LAN-247, "TCM Circuit Inspection"](#) .

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

PKIB5933E



PKIB4245E

CAN SYSTEM (TYPE 5)

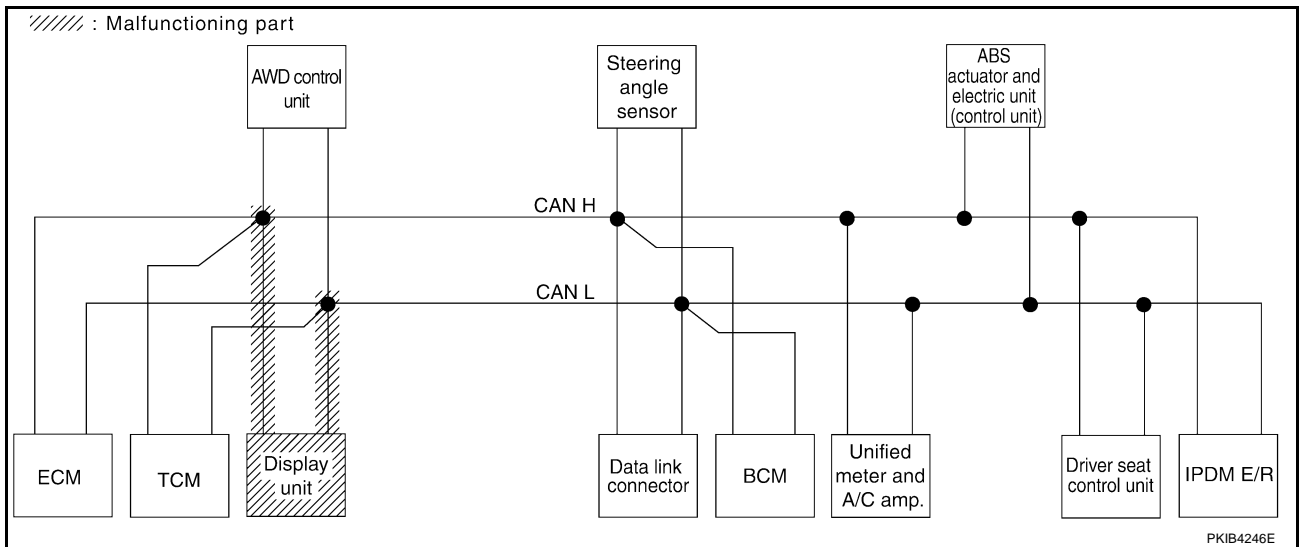
[CAN]

Case 7

Check display unit circuit. Refer to [LAN-248, "Display Unit Circuit Inspection"](#) .

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

PKIB5934E



PKIB4246E

CAN SYSTEM (TYPE 5)

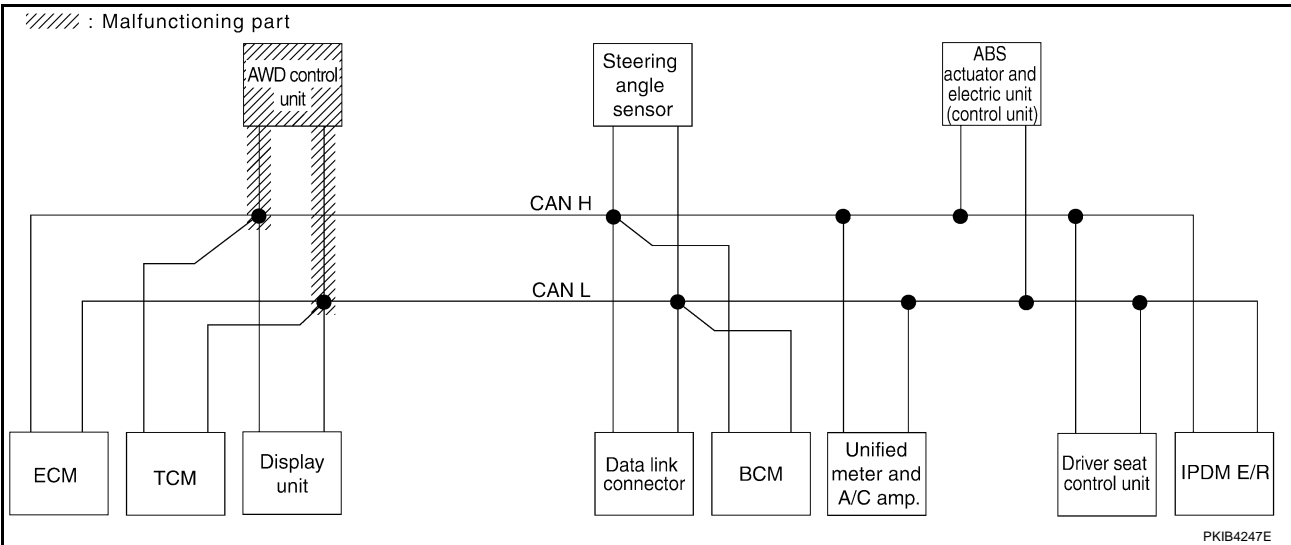
[CAN]

Case 8

Check AWD control unit circuit. Refer to [LAN-248. "AWD Control Unit Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 5)

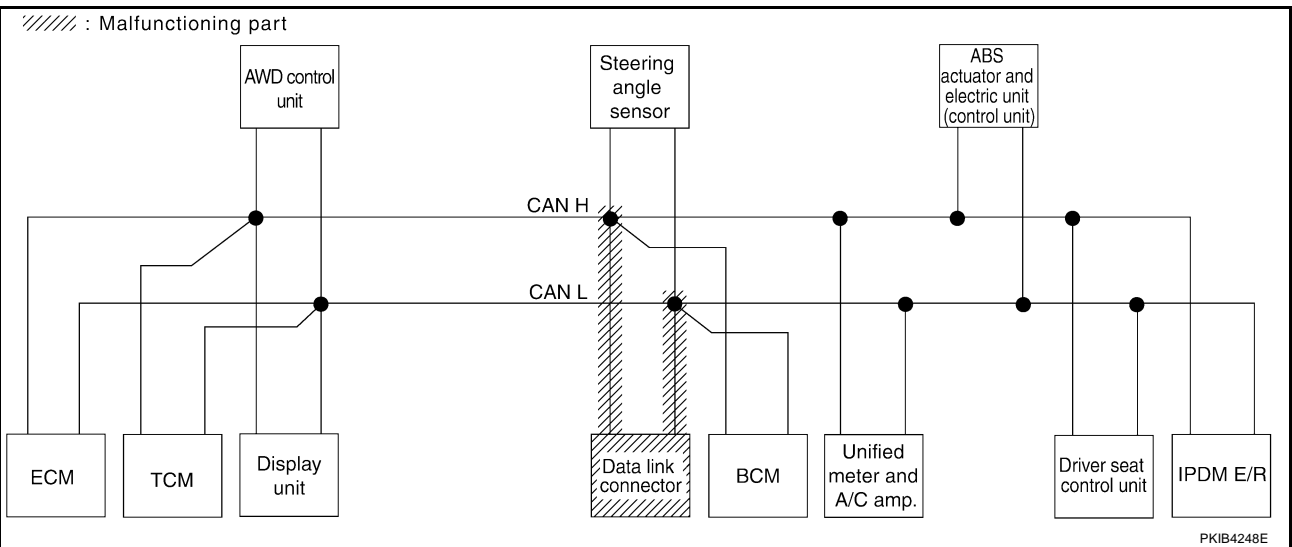
[CAN]

Case 9

Check data link connector circuit. Refer to [LAN-249, "Data Link Connector Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 5)

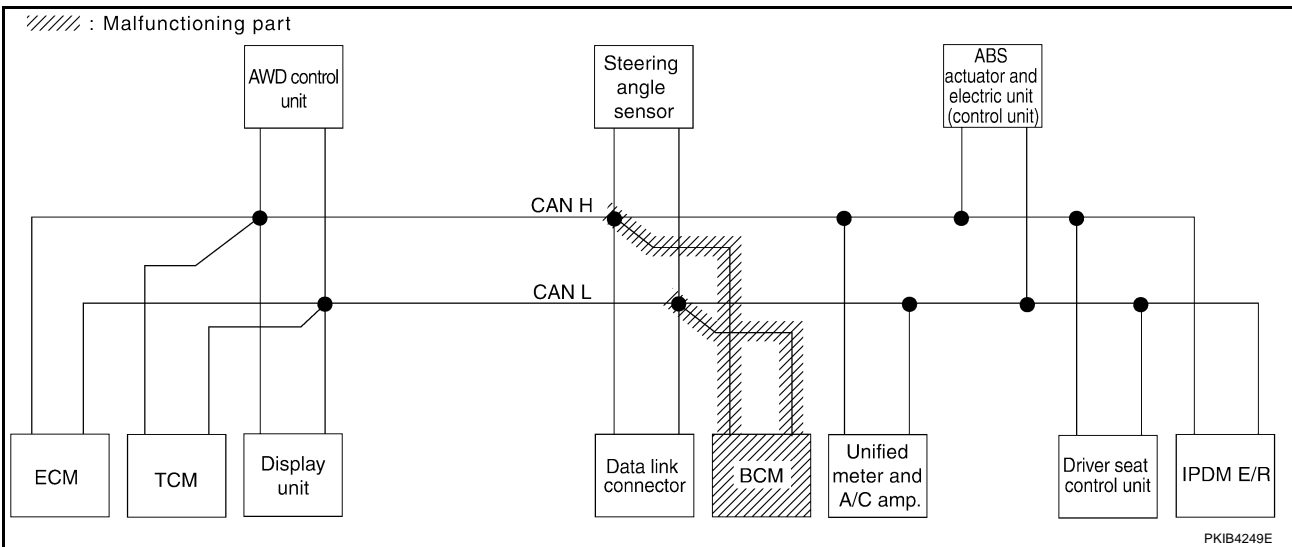
[CAN]

Case 10

Check BCM circuit. Refer to [LAN-249, "BCM Circuit Inspection"](#) .

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

PKIB5937E



PKIB4249E

CAN SYSTEM (TYPE 5)

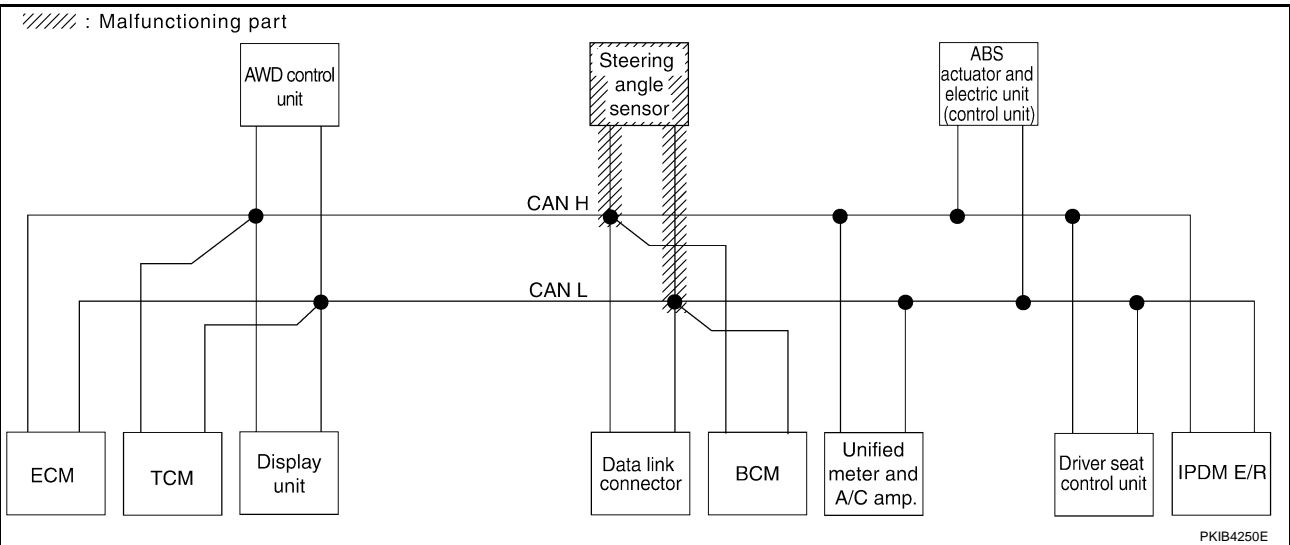
[CAN]

Case 11

Check steering angle sensor circuit. Refer to [LAN-250, "Steering Angle Sensor Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 5)

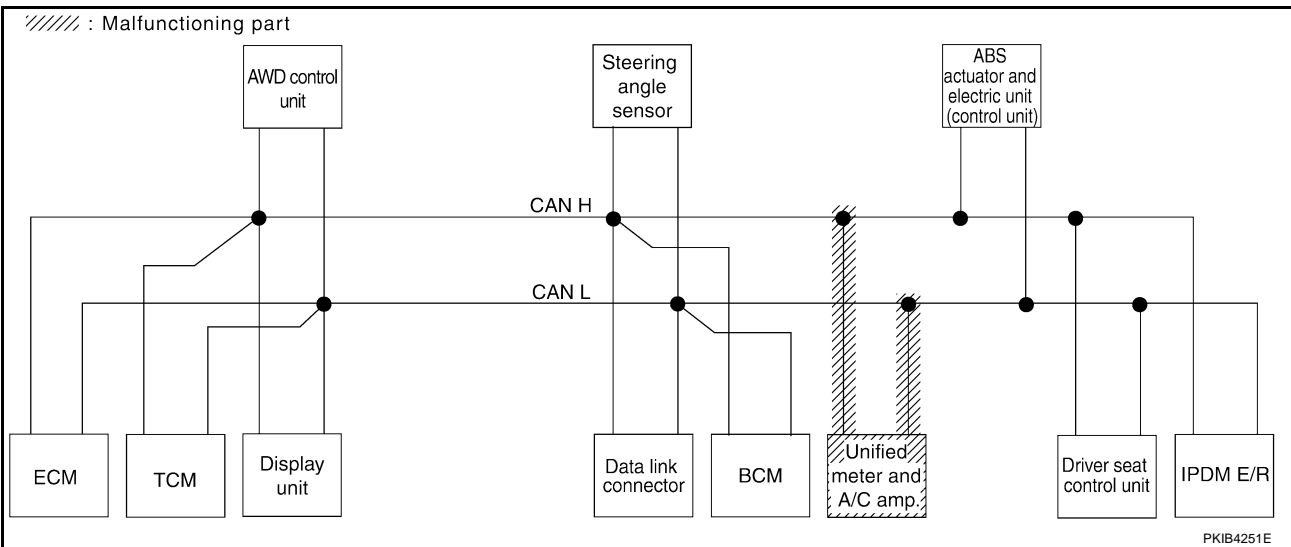
[CAN]

Case 12

Check unified meter and A/C amp. circuit. Refer to [LAN-250, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

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

PKIB5939E



PKIB4251E

CAN SYSTEM (TYPE 5)

[CAN]

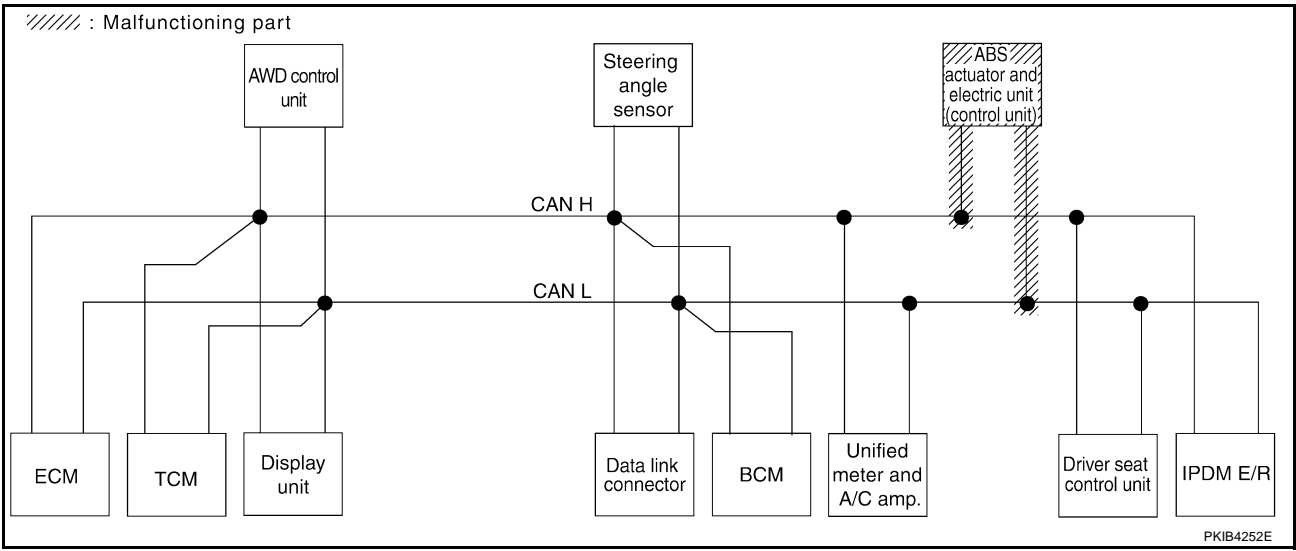
Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-251, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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

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PKIB4252E

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CAN SYSTEM (TYPE 5)

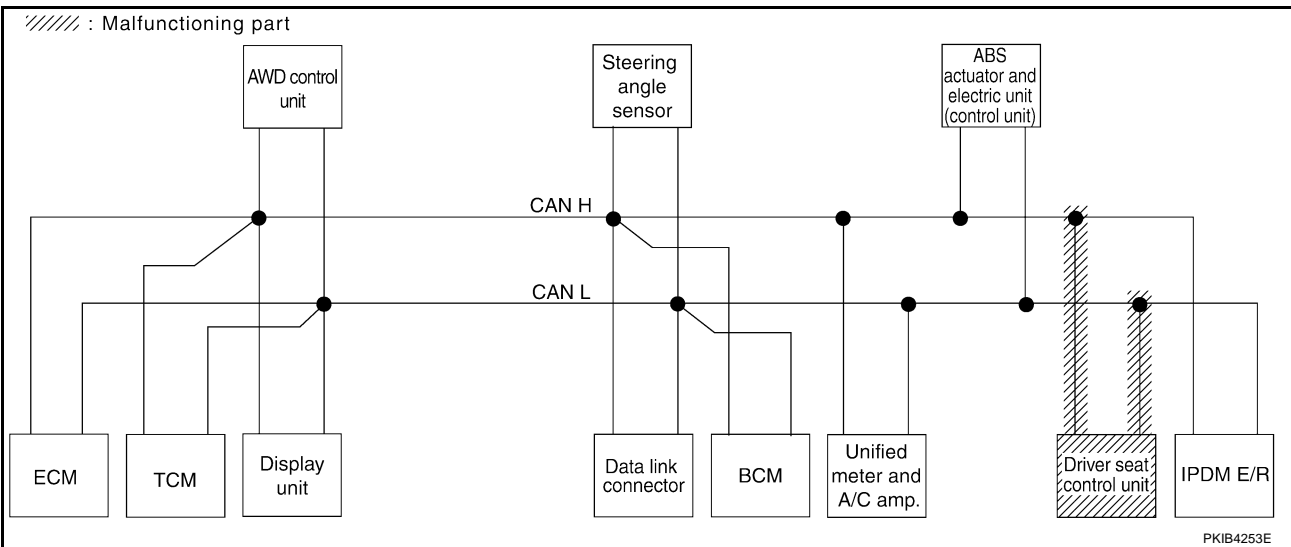
[CAN]

Case 14

Check driver seat control unit circuit. Refer to [LAN-251, "Driver Seat Control Unit Circuit Inspection"](#).

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

PKIB5941E



PKIB4253E

CAN SYSTEM (TYPE 5)

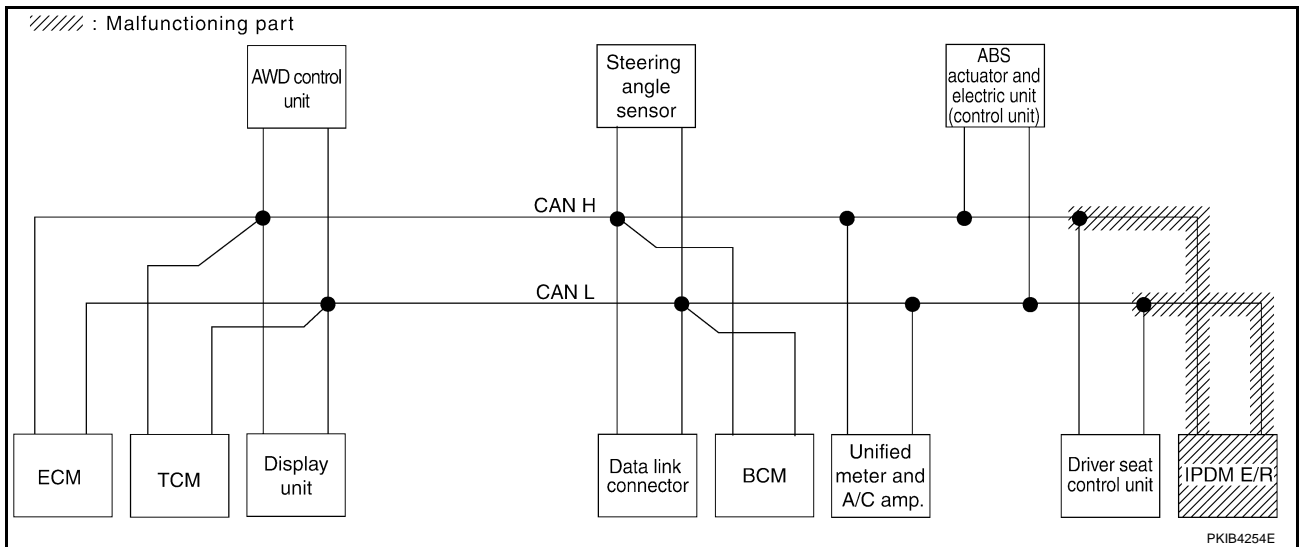
[CAN]

Case 15

Check IPDM E/R circuit. Refer to [LAN-252. "IPDM E/R Circuit Inspection"](#) .

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

PKIB5942E



PKIB4254E

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CAN SYSTEM (TYPE 5)

[CAN]

Case 17

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-259, "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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	UNKWN	—	✓	—	—	UNKWN	—	UNKWN	✓	UNKWN	✓	CAN COMM CIRCUIT (U1000)	✓	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	—
Display unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	✓	—	—	CAN COMM CIRCUIT (U1000)	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	UNKWN	—	—	✓	—	—	CAN COMM CIRCUIT (U1000)	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	✓	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	—

PKIB5944E

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Case 18

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-259, "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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—	
Display unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—	
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB5945E

Inspection Between TCM and Data Link Connector Circuit

AKS00CD5

1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

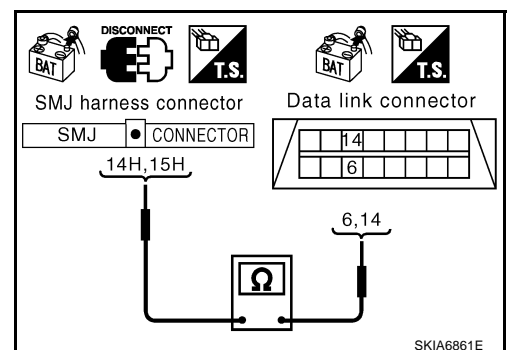
14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .

NG >> Repair harness.



Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

AKS00CD6

1. CHECK HARNESS FOR OPEN CIRCUIT

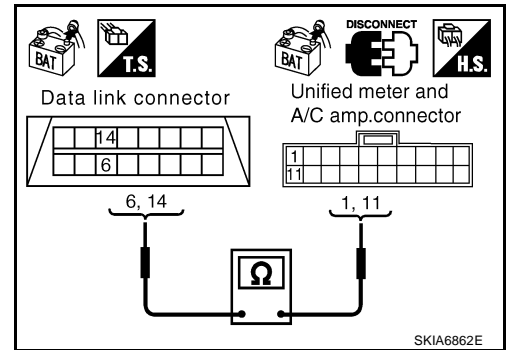
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.

14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

AKS00CD7

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 M41
 - Harness connector E211

OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

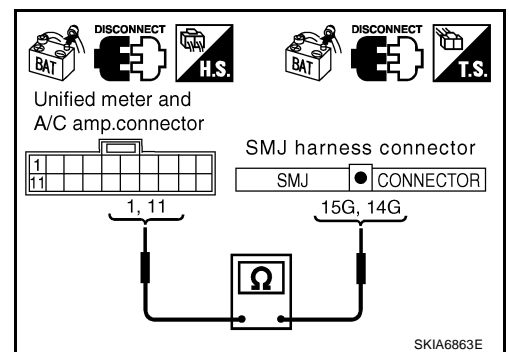
1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.

11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



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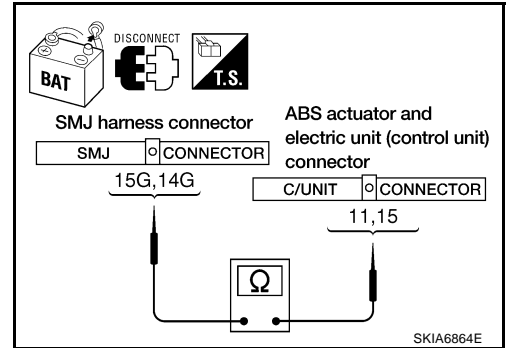
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.
14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



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

AKS00CD8

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 E205
 - Harness connector B5

OK or NG

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

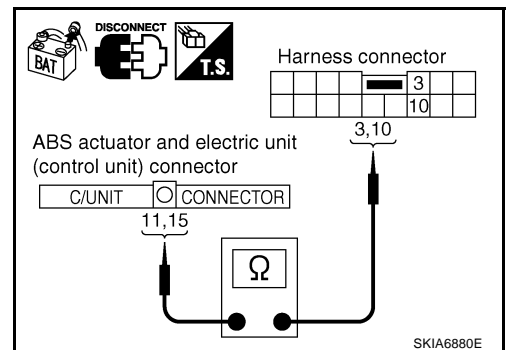
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and harness connector E205 terminals 3 (L), 10 (R).

11 (L) - 3 (L) : Continuity should exist.
15 (R) - 10 (R) : Continuity should exist.

OK or NG

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



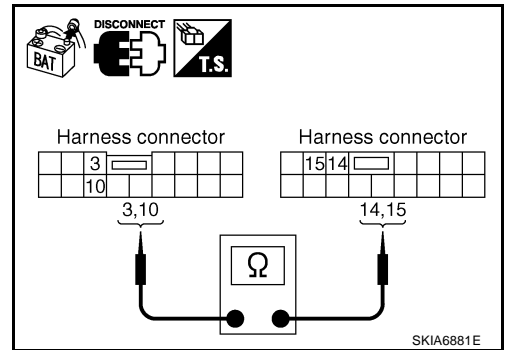
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L), 10 (R) and harness connector B8 terminals 14 (L), 15 (R).

3 (L) - 14 (L) : Continuity should exist.
10 (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



AKS00CD9

ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

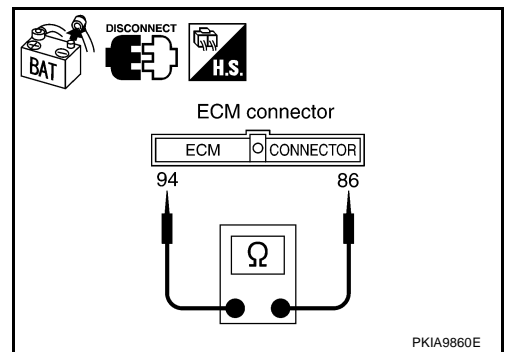
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and harness connector M82.



AKS00CDA

TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

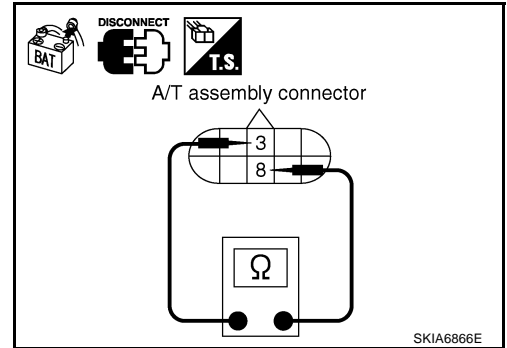
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



Display 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 unit for damage, bend and loose connection (unit side and harness side).

OK or NG

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

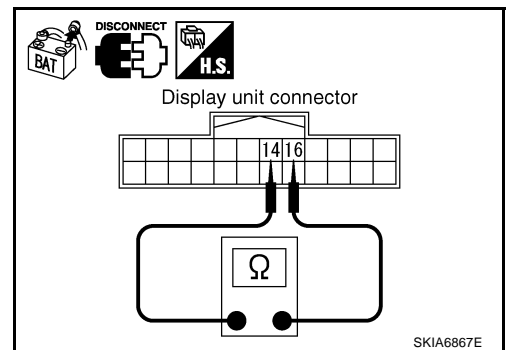
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display unit connector.
2. Check resistance between display unit harness connector M62 terminals 14 (L) and 16 (R).

14 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit and harness connector M82.



AWD 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 AWD control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

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

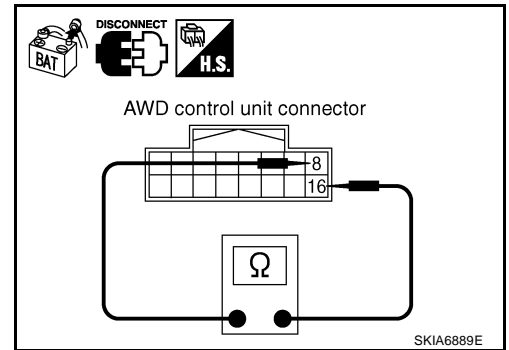
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector M92 terminals 8 (L) and 16 (R).

8 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace AWD control unit.
 NG >> Repair harness between AWD control unit and harness connector M82.



AKS00CDD

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

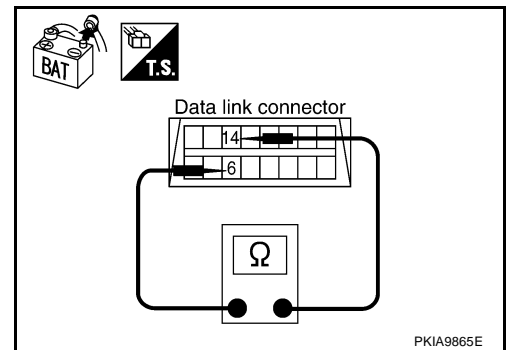
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
 NG >> Repair harness between data link connector and BCM.



AKS00CDE

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.

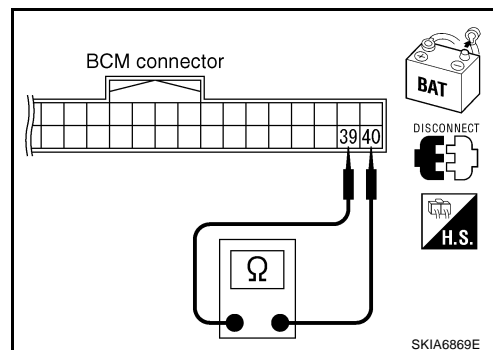
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and data link connector.



Steering Angle Sensor Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

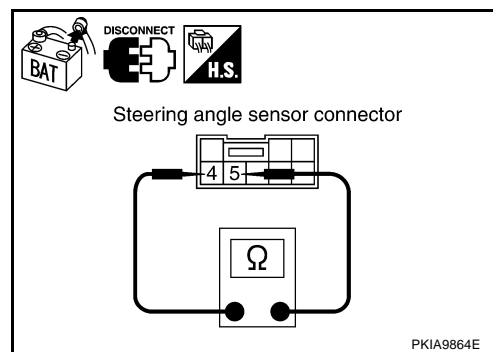
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



Unified Meter and A/C Amp. Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

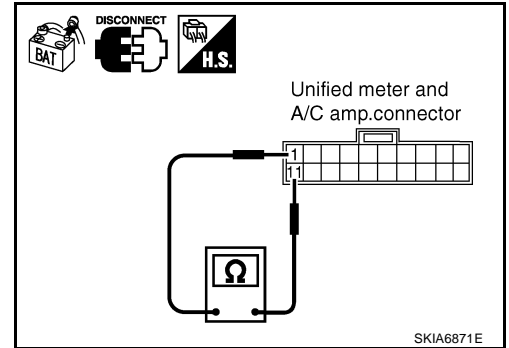
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

AKS00CDH

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.

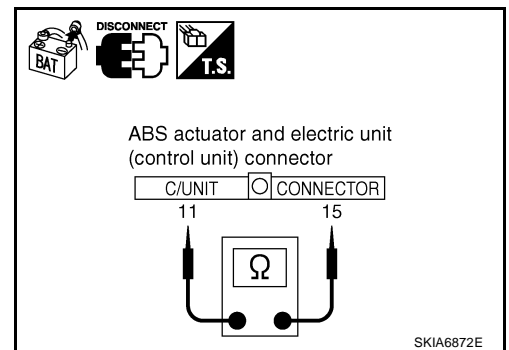
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

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 E205.



Driver Seat Control Unit Circuit Inspection

AKS00CDI

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 B151
 - Harness connector B8

OK or NG

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

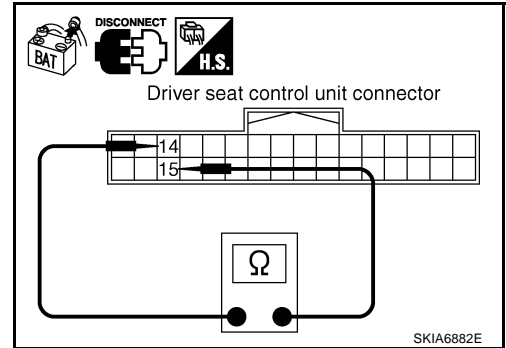
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit and harness connector B5.



IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

OK or NG

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

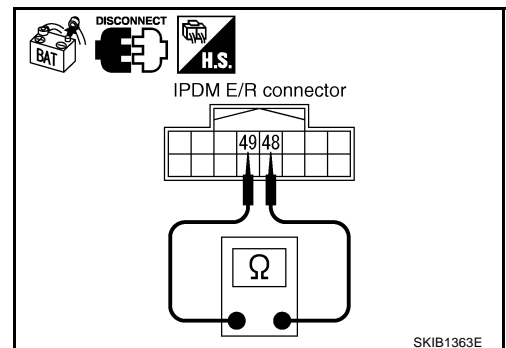
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R and harness connector B8.



CAN Communication Circuit Inspection**1. CHECK CONNECTOR**

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

OK or NG

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

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2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display unit connector
 - AWD control unit connector
 - BCM connector
 - Steering angle sensor connector
 - Unified meter and A/C amp. connector
 - Harness connector M41
2. Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

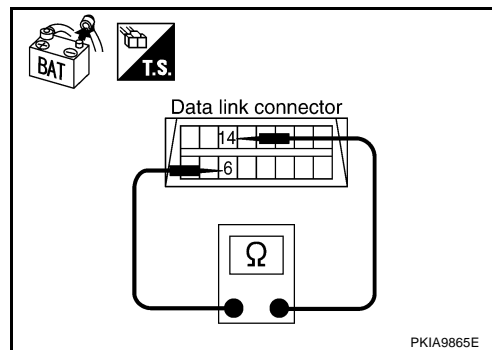
6 (L) - 14 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

6 (L) - Ground : Continuity should not exist.

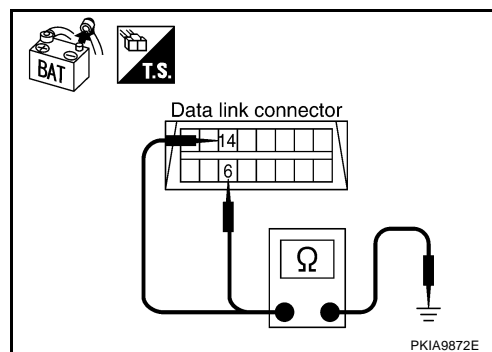
14 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



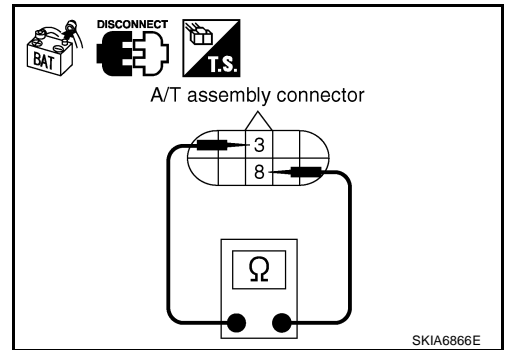
4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Continuity should not exist.

OK or NG

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



5. CHECK HARNESS FOR SHORT CIRCUIT

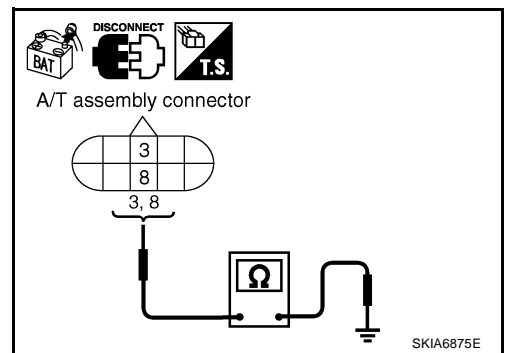
Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

3 (L) - Ground : Continuity should not exist.

8 (R) - Ground : Continuity should not exist.

OK or NG

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



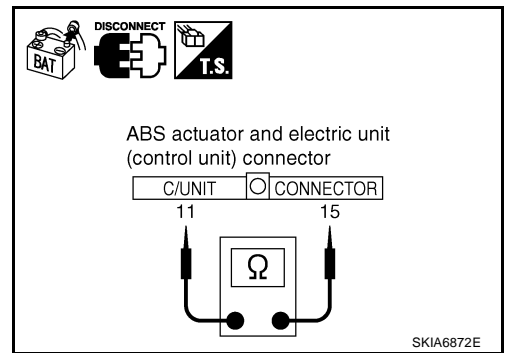
6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 7.
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ABS actuator and electric unit (control unit) and harness connector E211
 - Harness between ABS actuator and electric unit (control unit) and harness connector E205



7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

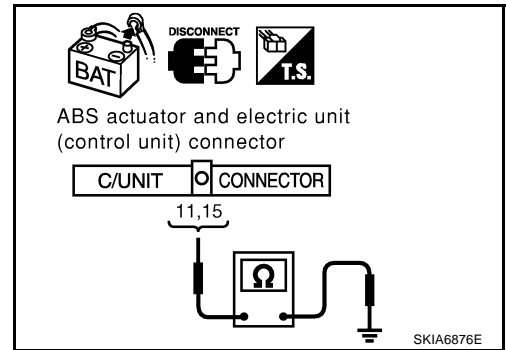
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 8.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

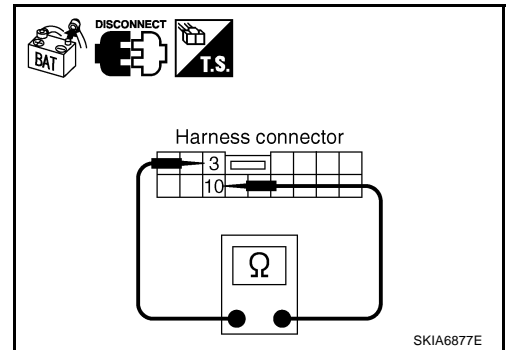
3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 9.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

3 (L) - Ground : Continuity should not exist.

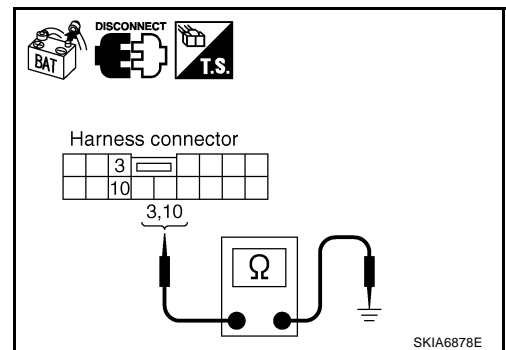
10 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



10. CHECK HARNESS FOR SHORT CIRCUIT

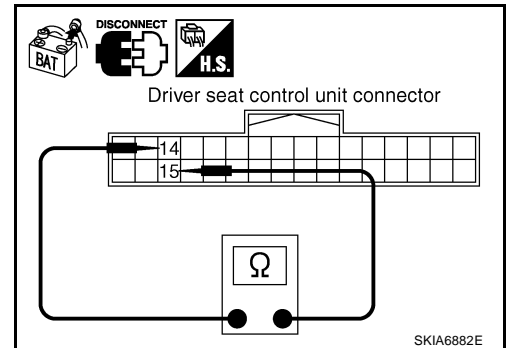
1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Continuity should not exist.

OK or NG

OK >> GO TO 11.

NG >> Repair harness between driver seat control unit and harness connector B151.



11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector B152 terminals 14 (OR), 15 (SB) and ground.

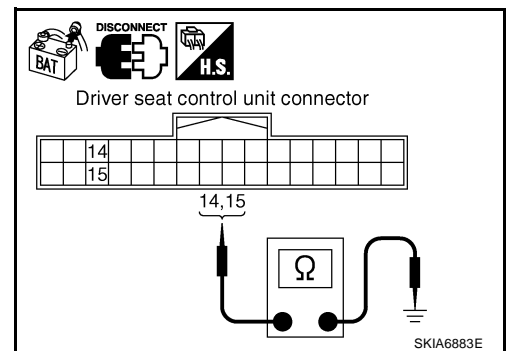
14 (OR) - Ground : Continuity should not exist.

15 (SB) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 12.

NG >> Repair harness between driver seat control unit and harness connector B151.



12. CHECK HARNESS FOR SHORT CIRCUIT

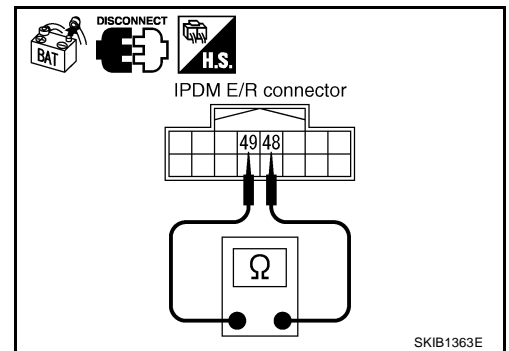
1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 13.

NG >> Repair harness between IPDM E/R and harness connector E205.



13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

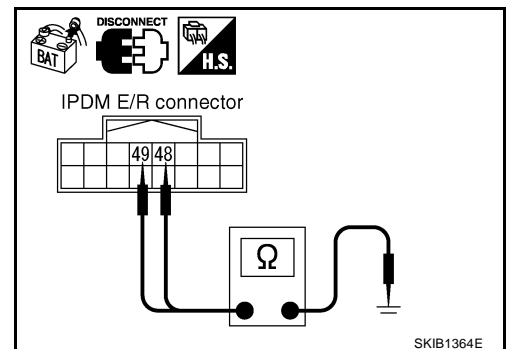
48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 14.

NG >> Repair harness between IPDM E/R and harness connector E205.

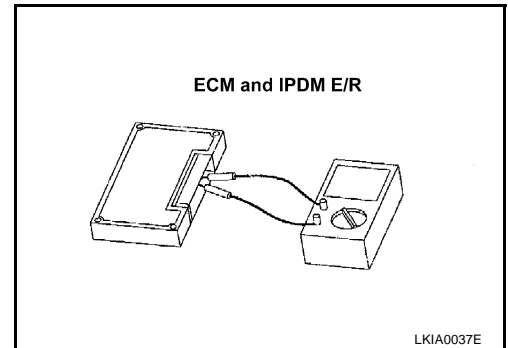


14. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
3. Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

OK or NG

- OK >> GO TO 15.
NG >> Replace ECM and/or IPDM E/R.



15. 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 16.
NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

16. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

IPDM E/R Ignition Relay Circuit Inspection

AKS00CDL

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-12, "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START" "](#) .

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CAN SYSTEM (TYPE 6)

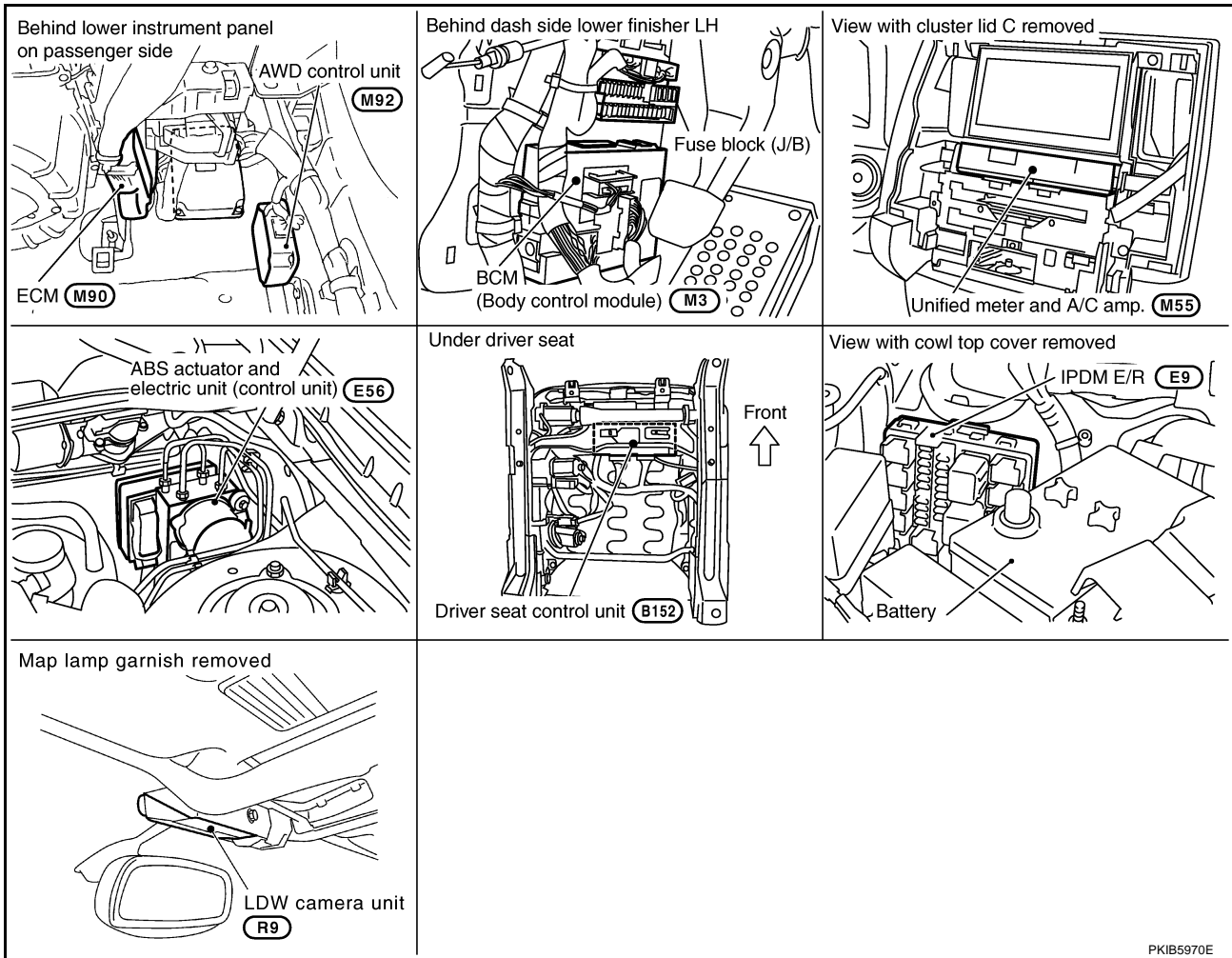
[CAN]

PFP:23710

AKS00CCF

CAN SYSTEM (TYPE 6)

Component Parts and Harness Connector Location



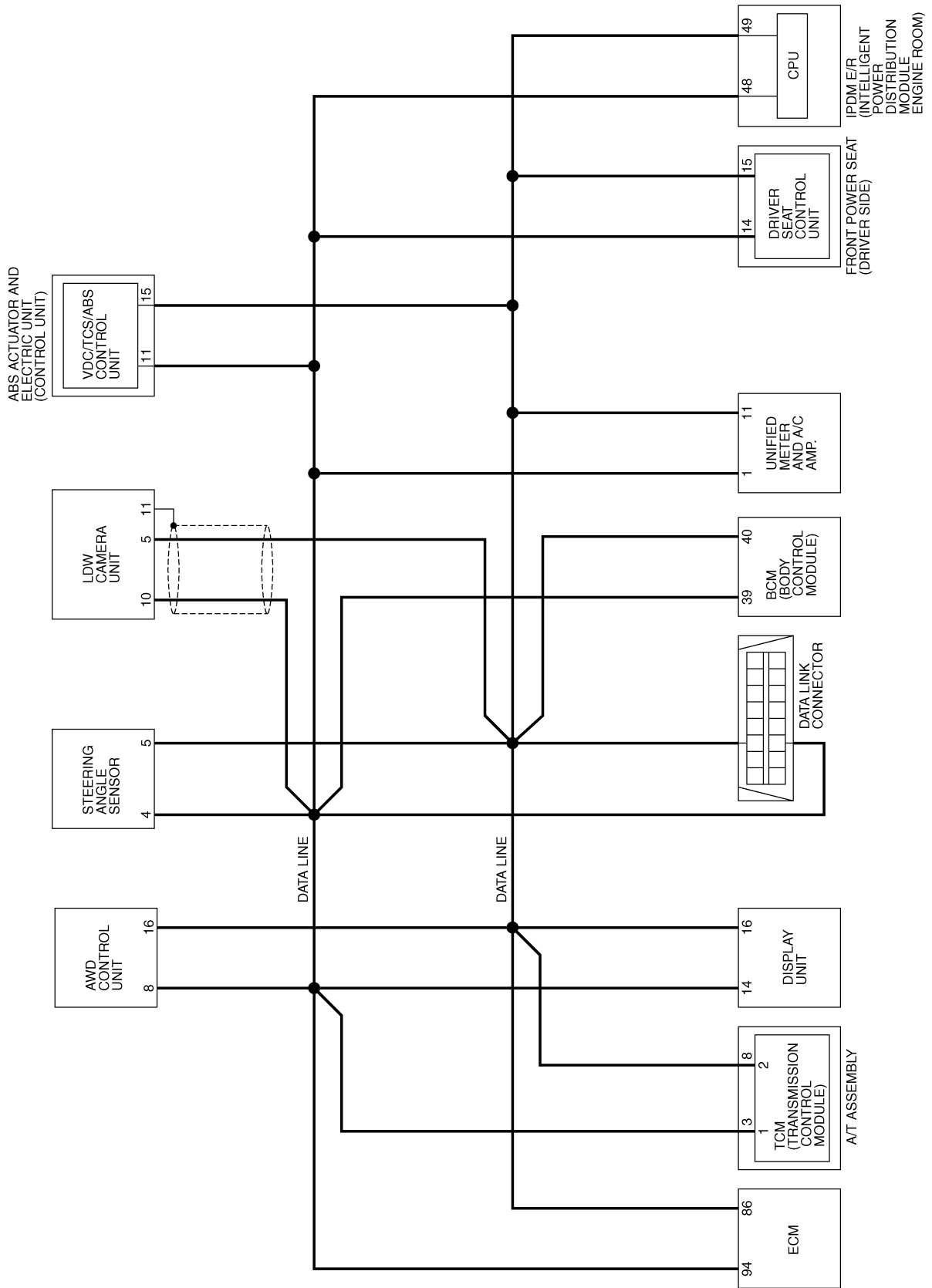
PKIB5970E

CAN SYSTEM (TYPE 6)

[CAN]

Schematic

AKS00CCG



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CAN SYSTEM (TYPE 6)

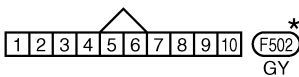
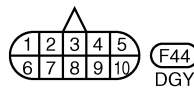
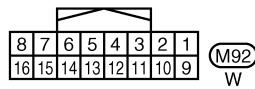
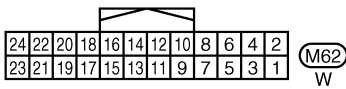
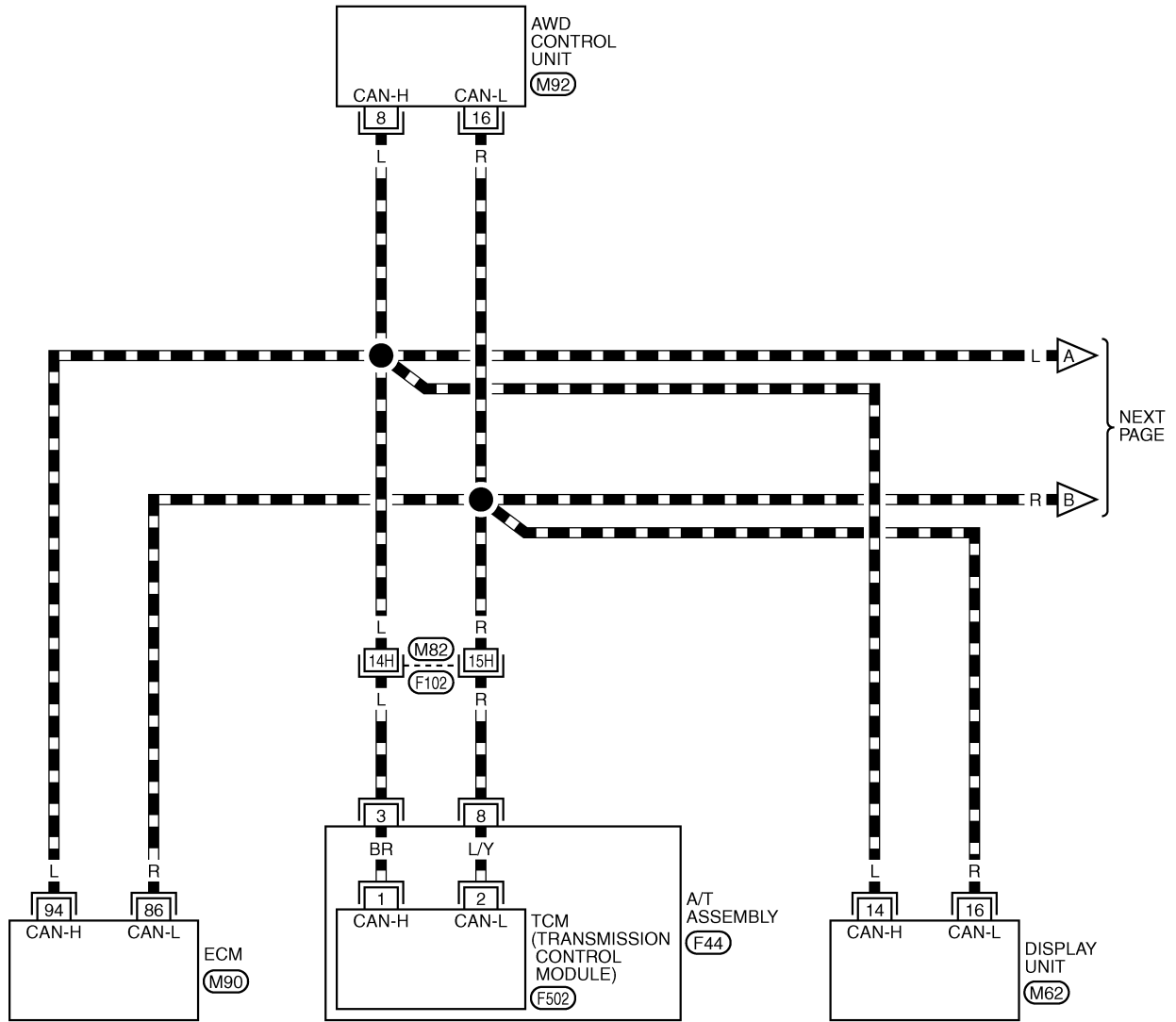
[CAN]

Wiring Diagram - CAN -

AKS00CCH

LAN-CAN-16

▬ : DATA LINE



REFER TO THE FOLLOWING.

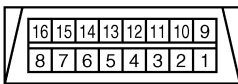
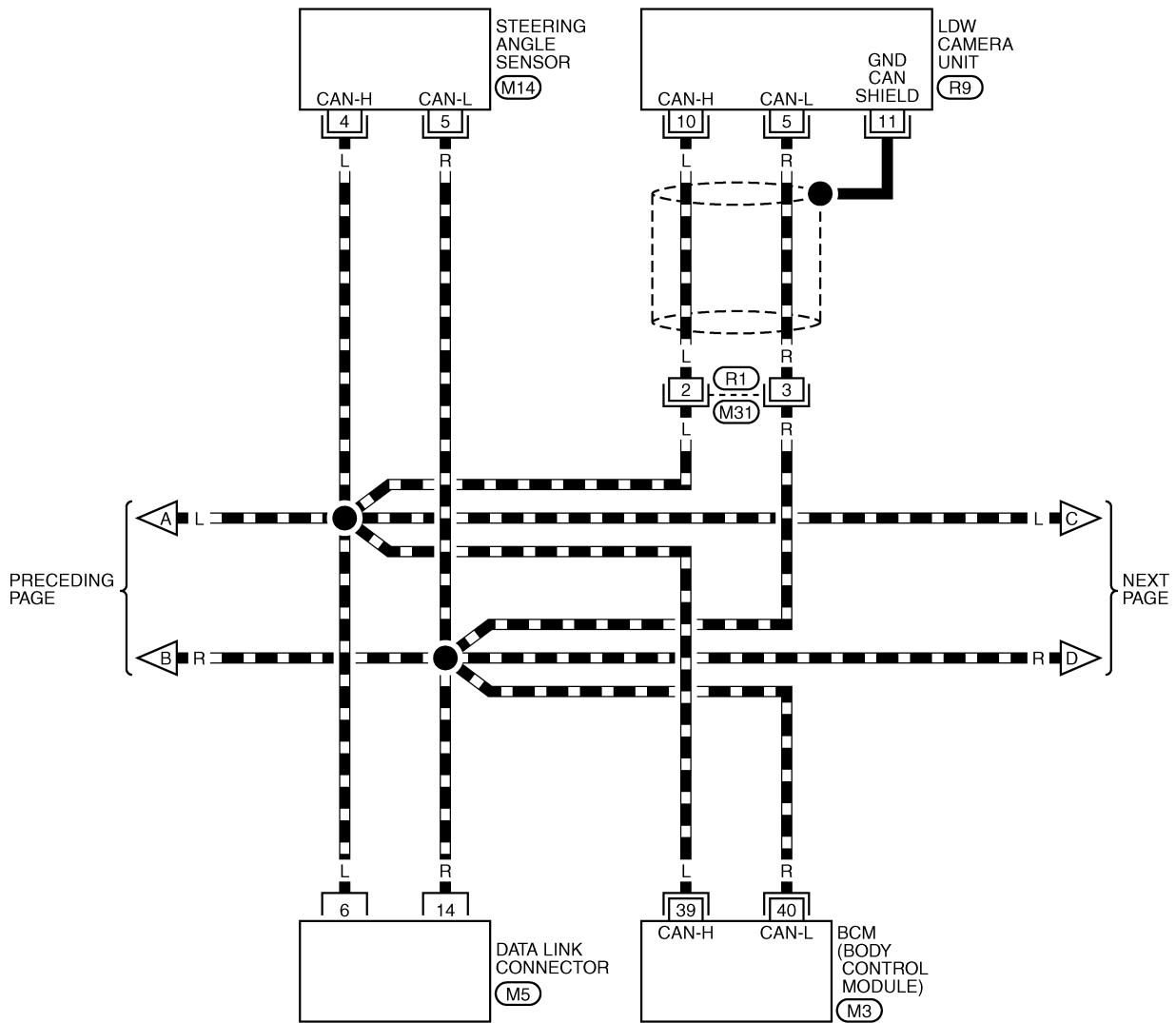
(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M90) -ELECTRICAL UNITS

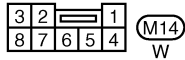
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWM2368E

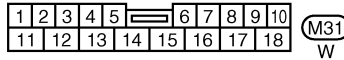
▬ : DATA LINE



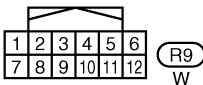
(M5)
W



(M14)
W



(M31)
W



(R9)
W

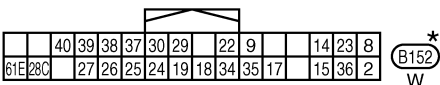
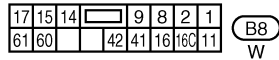
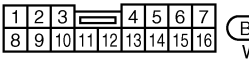
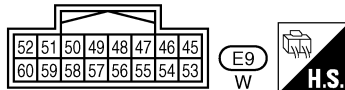
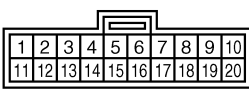
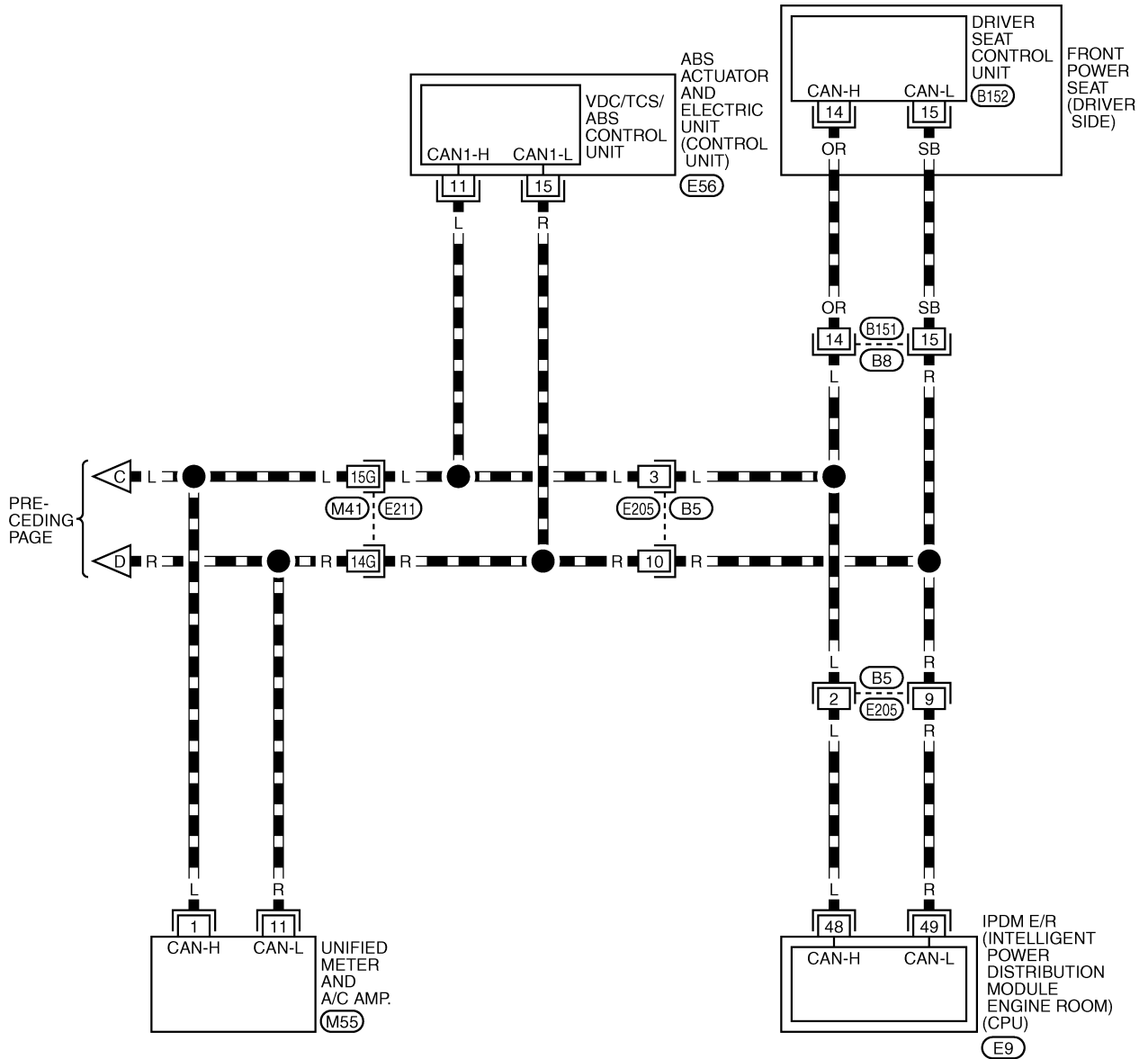
REFER TO THE FOLLOWING.
(M3) -ELECTRICAL UNITS

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LAN-CAN-18

DATA LINE



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

REFER TO THE FOLLOWING.

(E211) -SUPER MULTIPLE JUNCTION (SMJ)

(E56) -ELECTRICAL UNITS

CAN SYSTEM (TYPE 6)

[CAN]

AKS00CCI

Check Sheet

NOTE:

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

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

PKIB4344E

CAN SYSTEM (TYPE 6)

[CAN]

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

Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CANCOMM	Initial diagnosis	CAN5	METER/M&A
CAN1	Transmit diagnosis	CAN6	—
CAN2	BCM/SEC	CAN7	IPDM E/R
CAN3	ECM	CAN8	—
CAN4	—	CAN9	—

Attach copy of
display unit
CAN DIAG MONITOR check sheet

PKIB5984E

CAN SYSTEM (TYPE 6)

[CAN]

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Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
LDW
SELF-DIAG RESULTS

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

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

PKIB4345E

CAN SYSTEM (TYPE 6)

[CAN]

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
A/T
CAN DIAG SUPPORT
MNTR

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

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
LDW
CAN DIAG SUPPORT
MNTR

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

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIB4346E

CAN SYSTEM (TYPE 6)

[CAN]

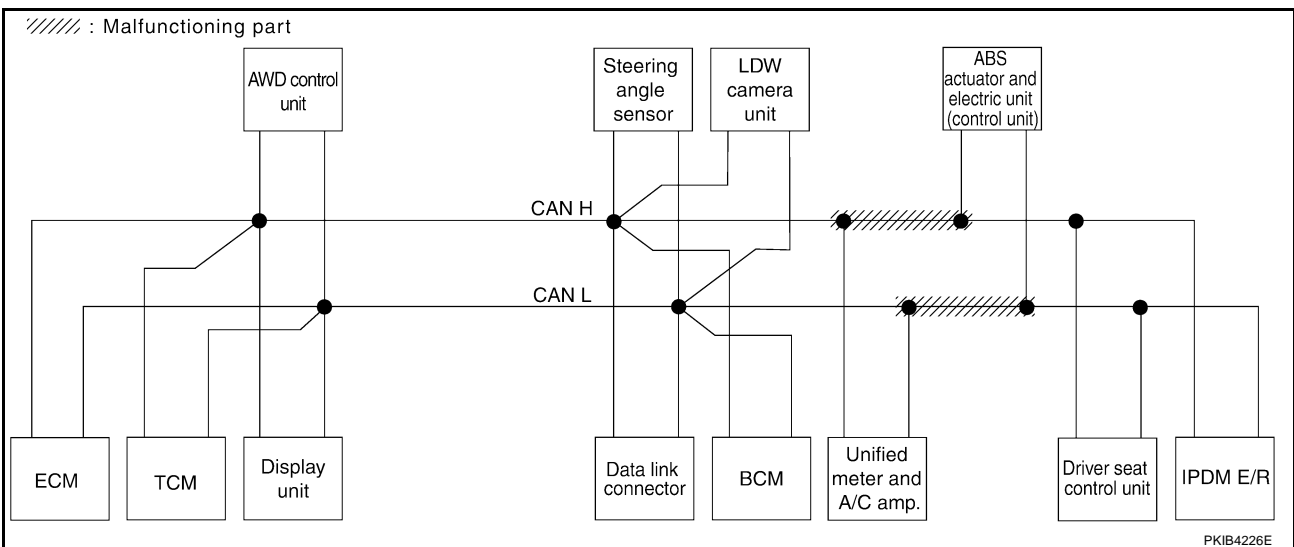
Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to [LAN-288, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

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

SKIB7297E



PKIB4226E

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CAN SYSTEM (TYPE 6)

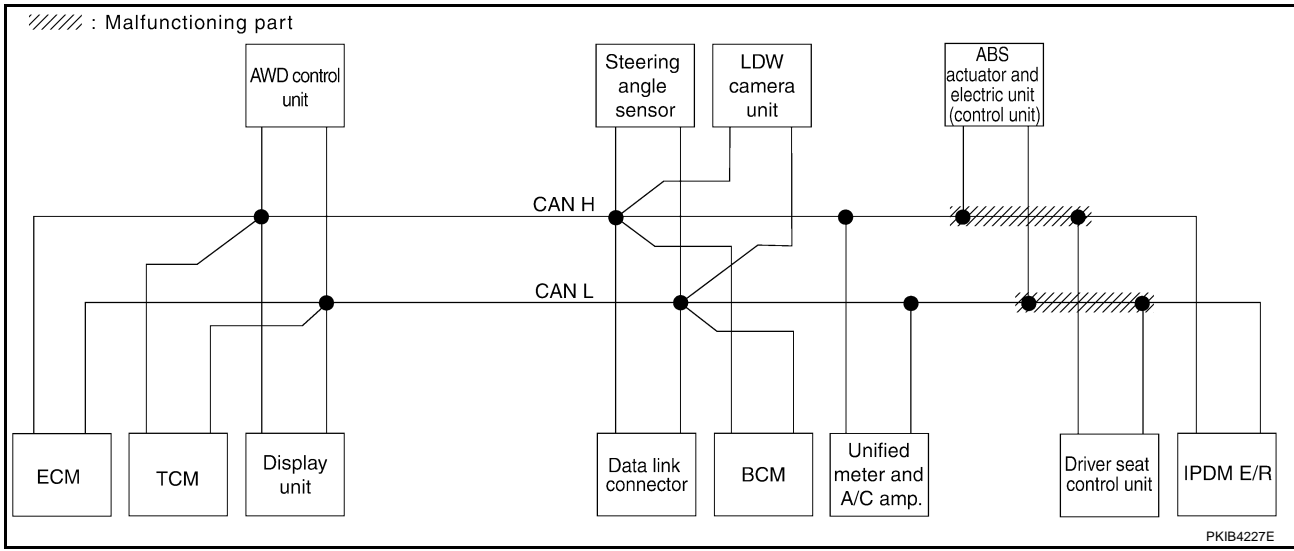
[CAN]

Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to [LAN-289, "Inspection Between ABS Actuator and Electric Unit \(Control Unit\) and Driver Seat Control Unit Circuit"](#) .

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

PKIB5949E



PKIB4227E

CAN SYSTEM (TYPE 6)

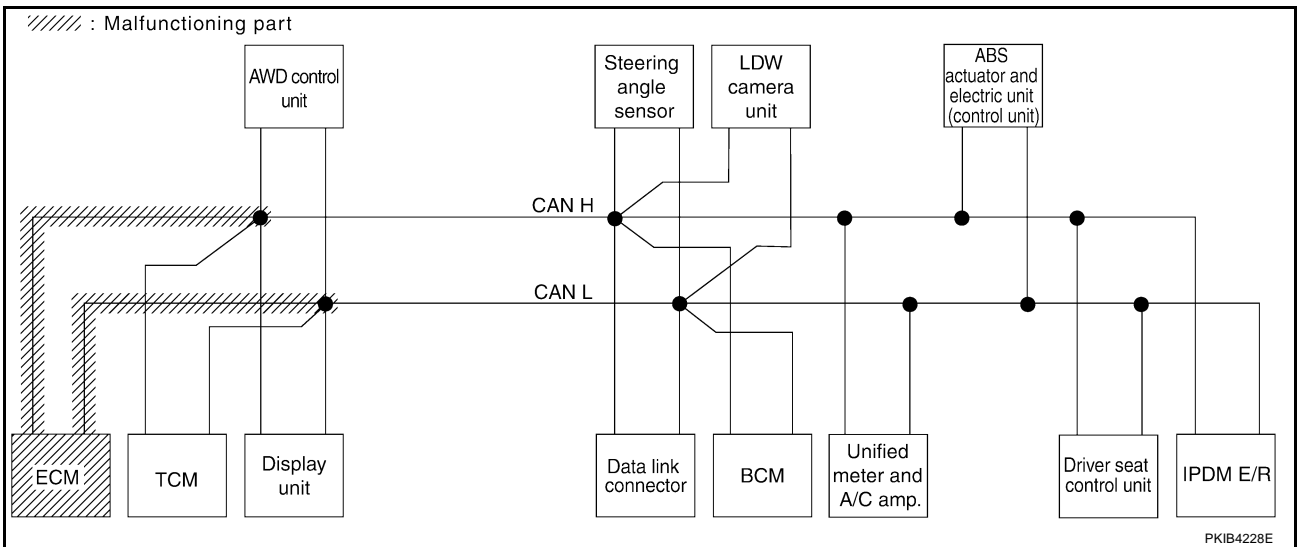
[CAN]

Case 5

Check ECM circuit. Refer to [LAN-290, "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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	UNKWN ✓	—	UNKWN ✓	—	—	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	UNKWN ✓	UNKWN ✓	UNKWN ✓	✓	✓
A/T	—	NG	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	—	✓	—
Display unit	—	NG	UNKWN	UNKWN ✓	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	UNKWN	UNKWN	—	—	—	✓	—
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	—	—	—	UNKWN	—	UNKWN	—	—	✓	—
LDW	No indication	—	—	UNKWN ✓	UNKWN	—	—	UNKWN	—	—	UNKWN	—	—	—	✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN ✓	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	✓	—
ABS	—	NG	UNKWN	UNKWN ✓	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	—	✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	—	✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	—	—	UNKWN	—	—	—	—	—	—	✓	—

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CAN SYSTEM (TYPE 6)

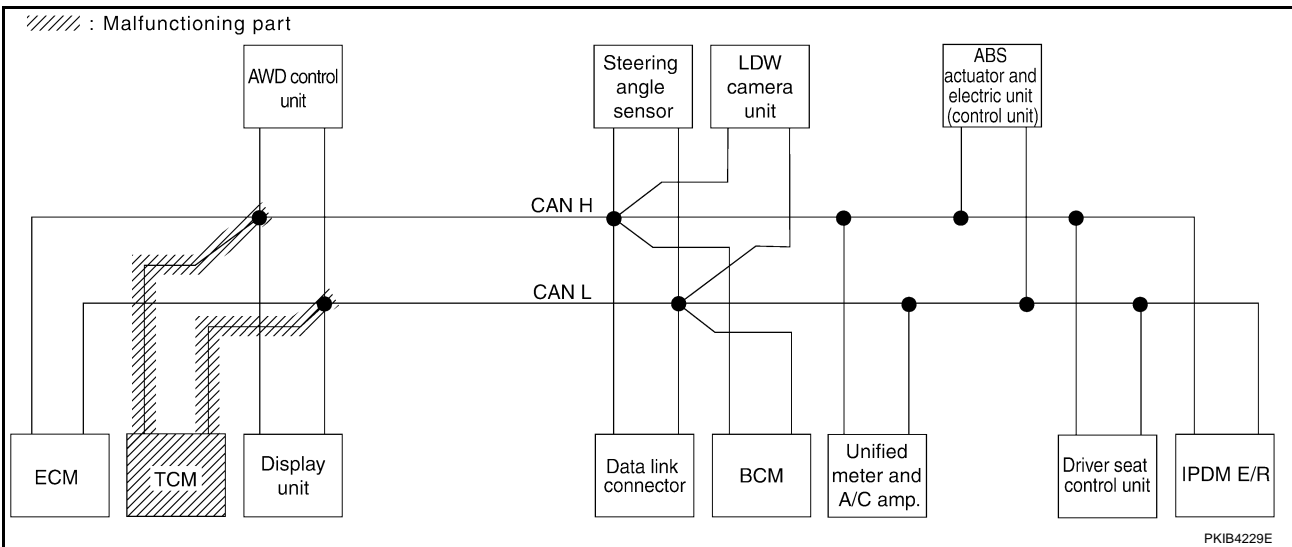
[CAN]

Case 6

Check TCM circuit. Refer to [LAN-290, "TCM Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 6)

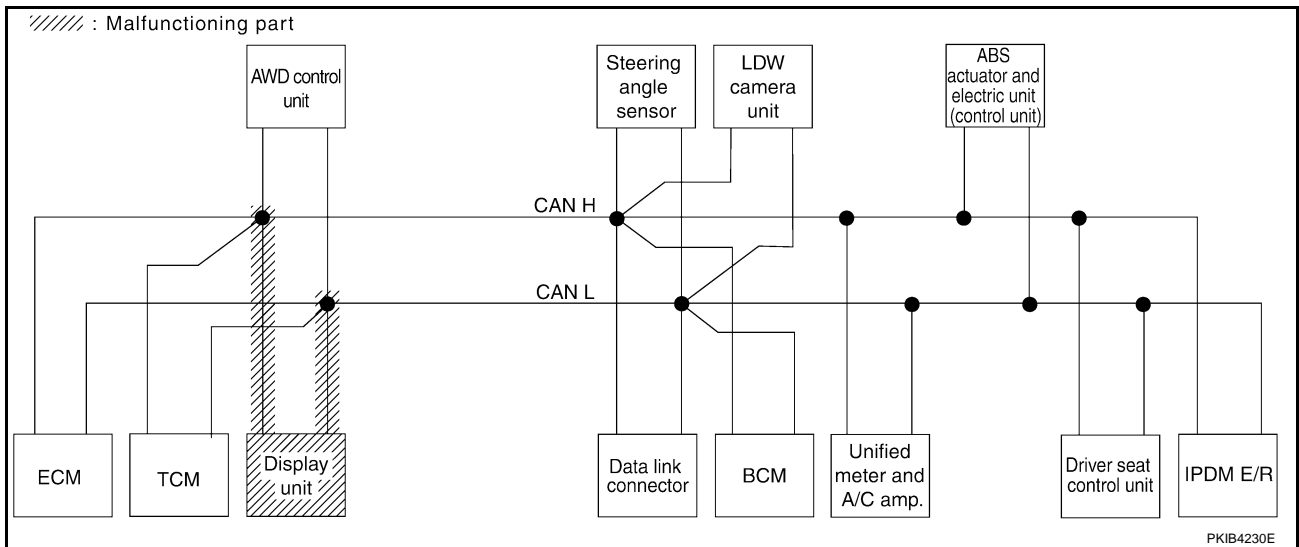
[CAN]

Case 7

Check display unit circuit. Refer to [LAN-291, "Display Unit Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 6)

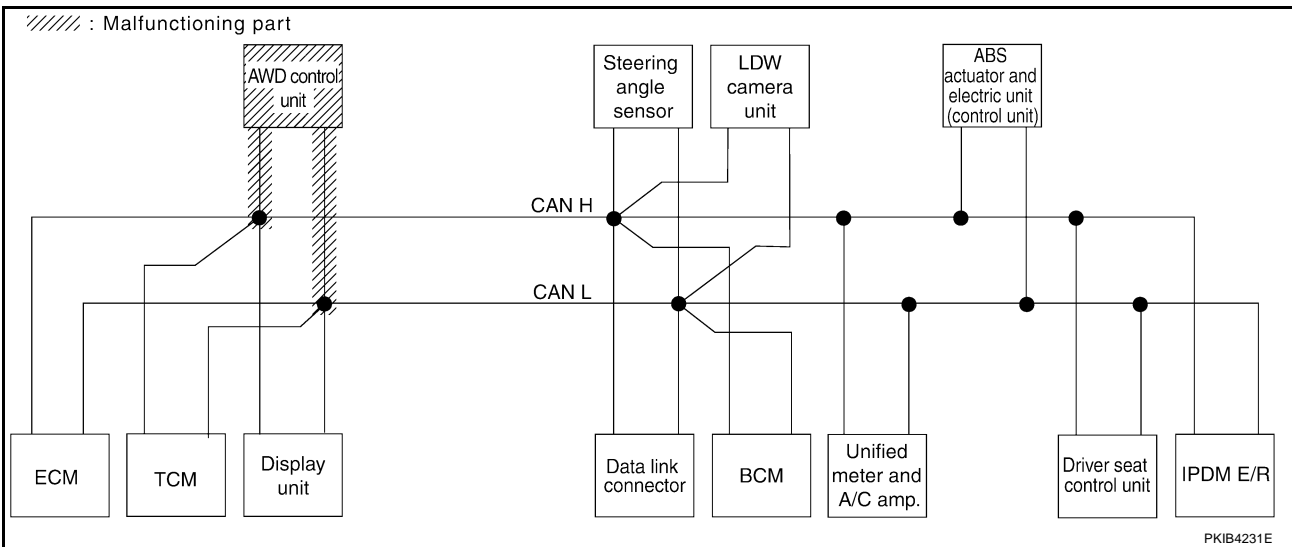
[CAN]

Case 8

Check AWD control unit circuit. Refer to [LAN-291, "AWD Control Unit Circuit Inspection"](#) .

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

PKIB5953E



PKIB4231E

CAN SYSTEM (TYPE 6)

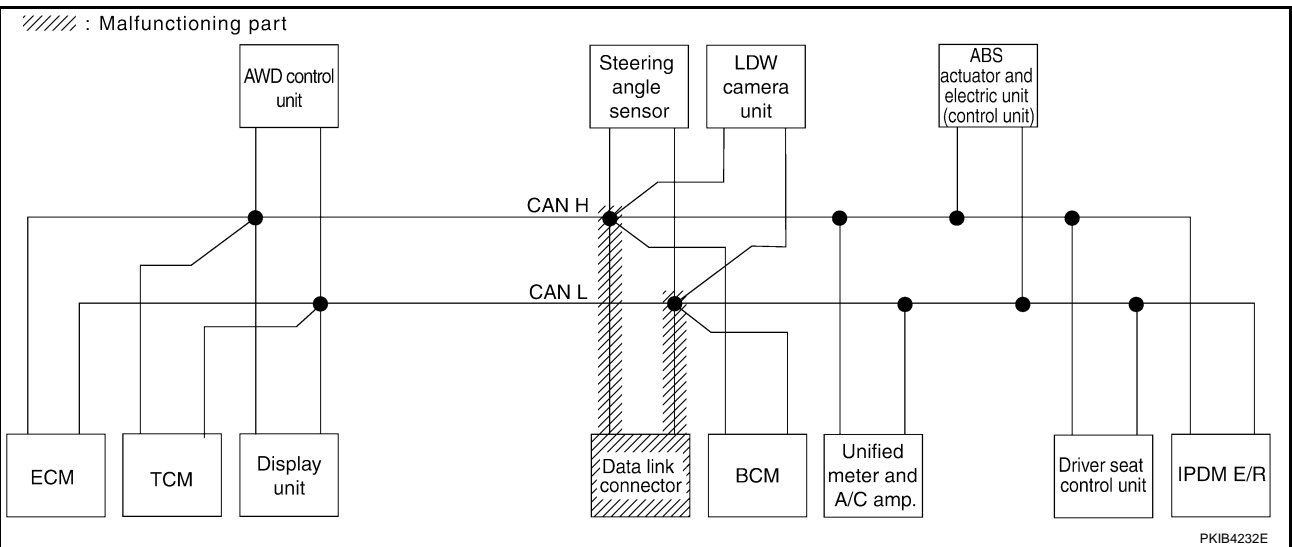
[CAN]

Case 9

Check data link connector circuit. Refer to [LAN-292, "Data Link Connector 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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	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)	—		
Display unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—		
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
LDW	No indication ✓	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—		
AUTO DRIVE POS.	No indication ✓	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—		
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		

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CAN SYSTEM (TYPE 6)

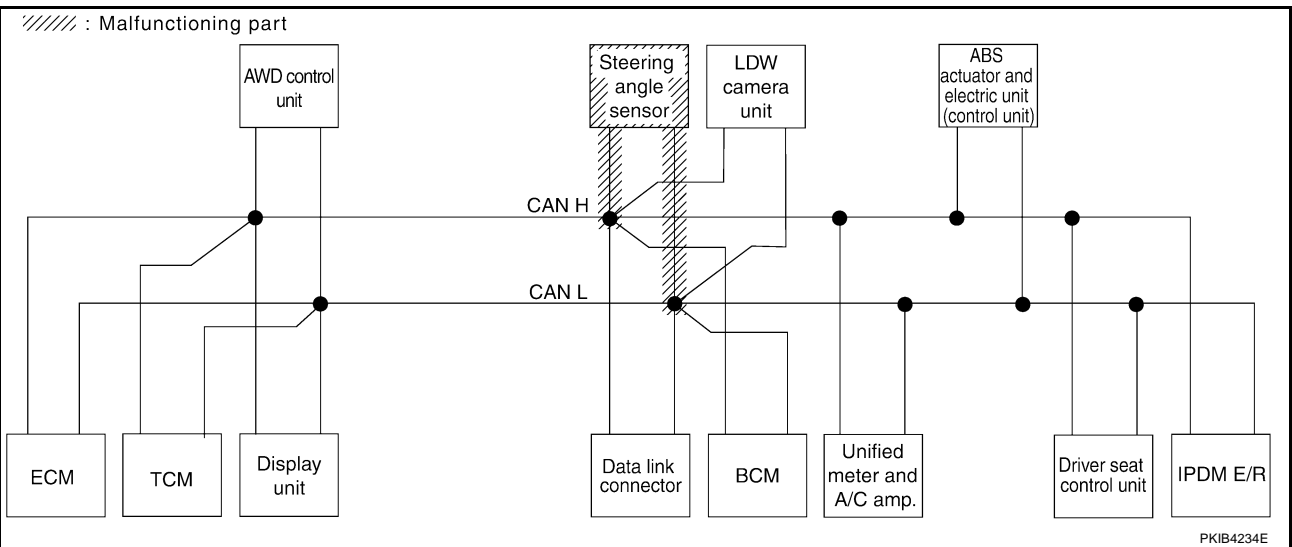
[CAN]

Case 11

Check steering angle sensor circuit. Refer to [LAN-293, "Steering Angle Sensor Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 6)

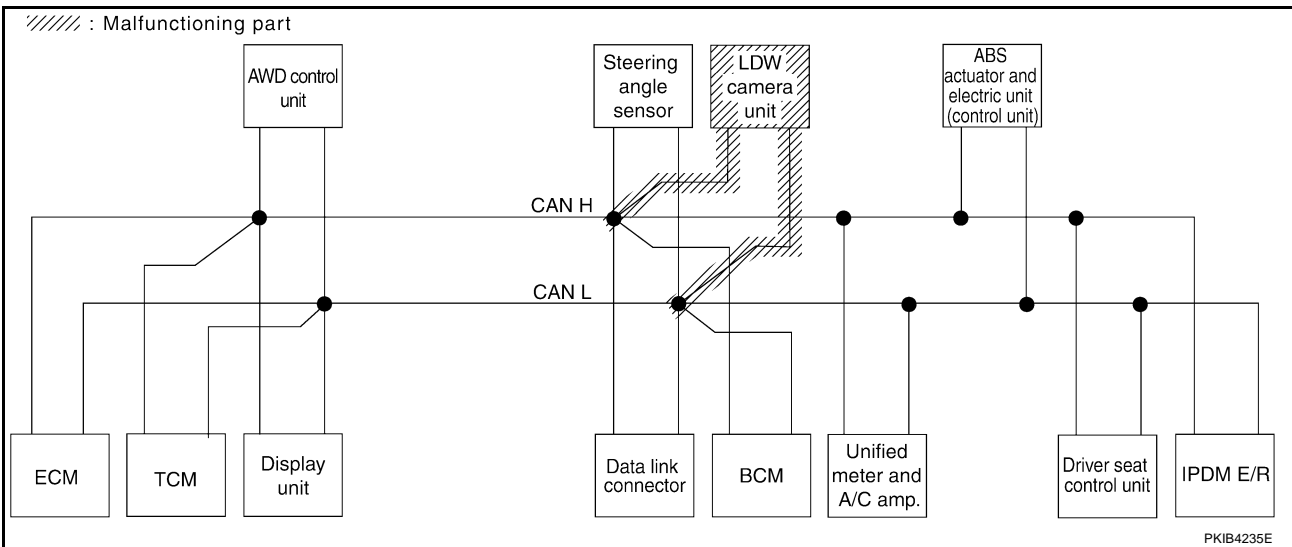
[CAN]

Case 12

Check LDW camera unit circuit. Refer to [LAN-293, "LDW Camera Unit Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 6)

[CAN]

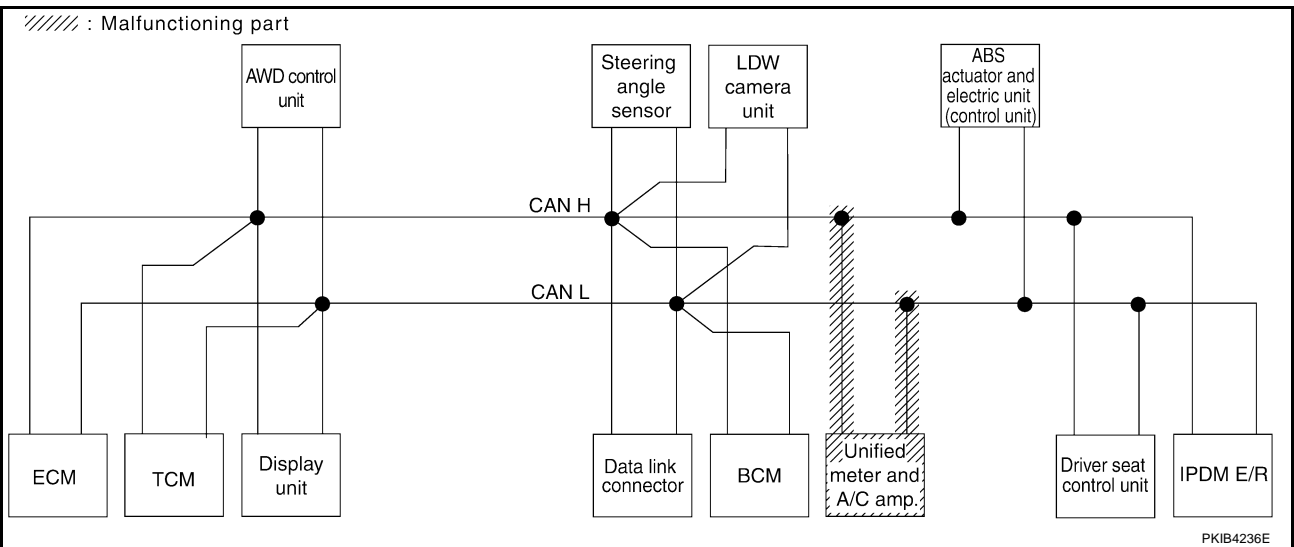
Case 13

Check unified meter and A/C amp. circuit. Refer to [LAN-294, "Unified Meter and A/C Amp. Circuit Inspection"](#).

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

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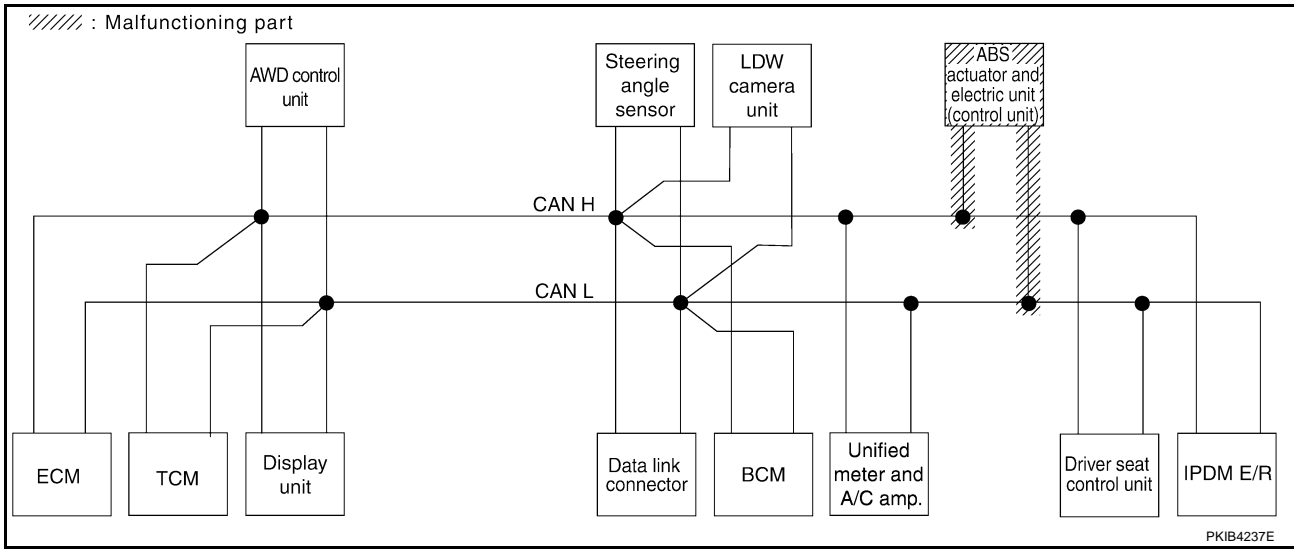
LAN

Case 14

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-295, "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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	✓	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—	—
Display unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—	—
ABS	—	✓	✓	✓	✓	—	✓	—	✓	—	—	—	CAN COMM CIRCUIT (U1000)	✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	—

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CAN SYSTEM (TYPE 6)

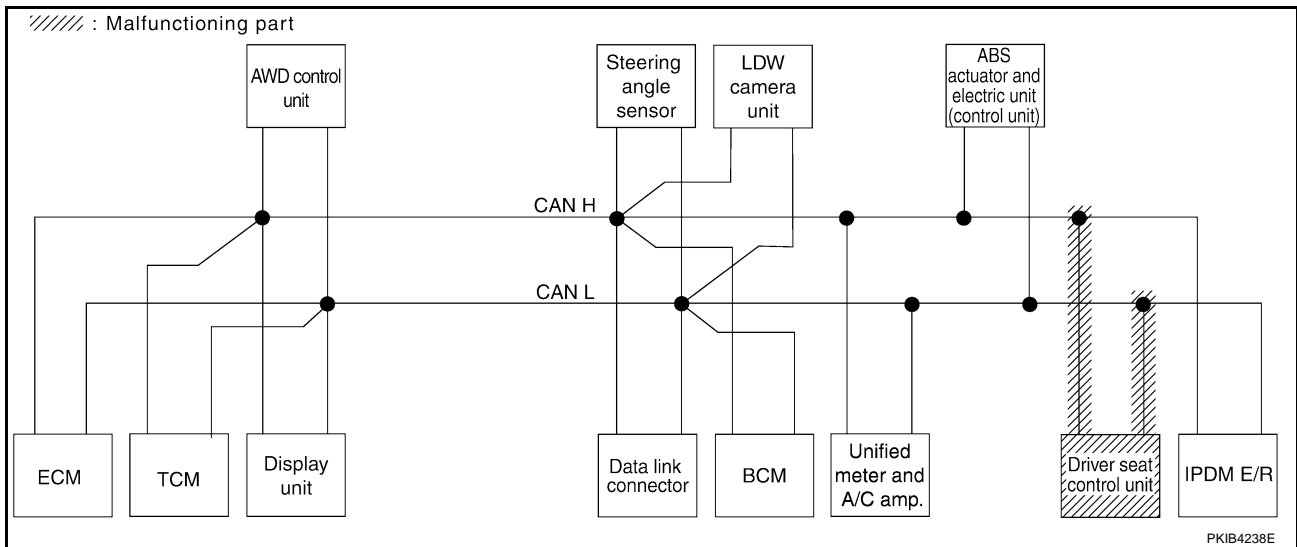
[CAN]

Case 15

Check driver seat control unit circuit. Refer to [LAN-295, "Driver Seat Control Unit Circuit Inspection"](#).

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

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CAN SYSTEM (TYPE 6)

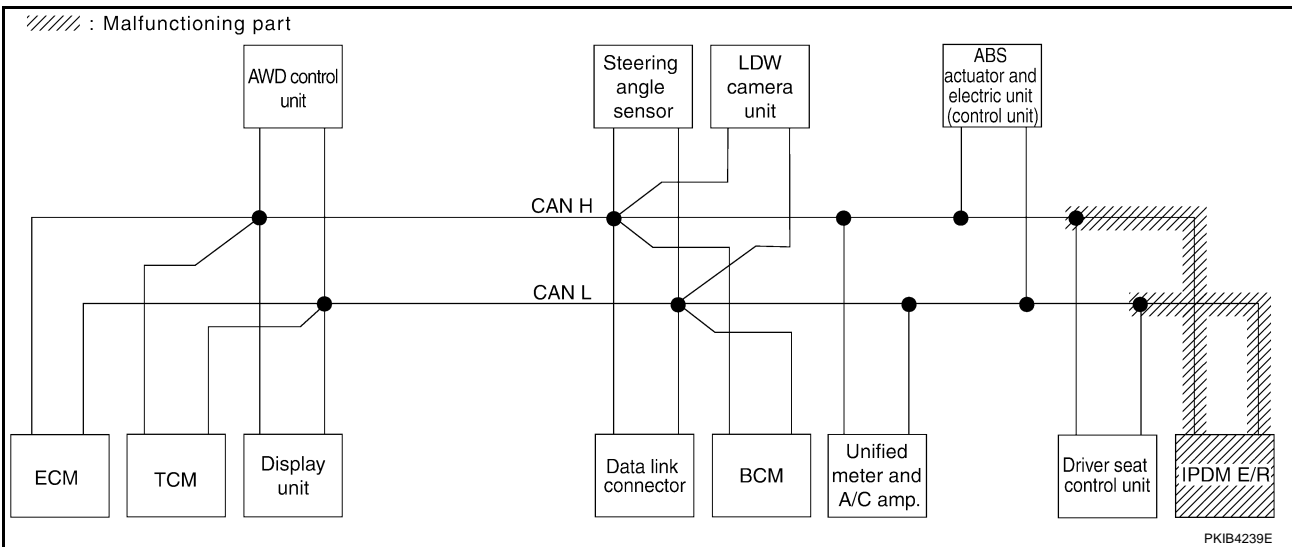
[CAN]

Case 16

Check IPDM E/R circuit. Refer to [LAN-296, "IPDM E/R Circuit Inspection"](#) .

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

PKIB5961E



PKIB4239E

CAN SYSTEM (TYPE 6)

[CAN]

Case 17

Check CAN communication circuit. Refer to [LAN-297, "CAN Communication Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 6)

[CAN]

Case 18

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-303. "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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	UNKWN	—	✓	—	—	UNKWN	—	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	✓	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	—
Display unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	—
LDW	No indication	—	—	UNKWN	✓	—	—	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)	—	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	✓	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	—

PKIB5963E

Case 19

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-303, "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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB5964E

Inspection Between TCM and Data Link Connector Circuit

AKS00CCJ

1. CHECK HARNESS FOR OPEN CIRCUIT

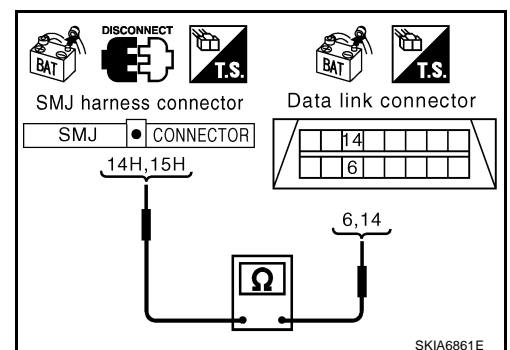
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Repair harness.



Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

AKS00CCK

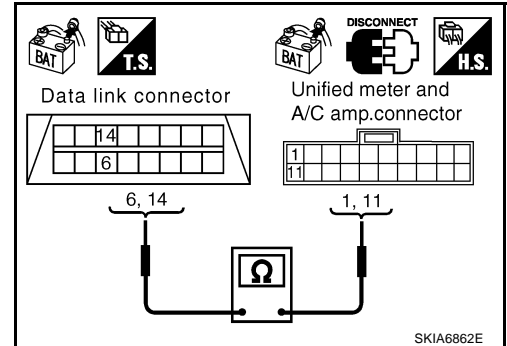
1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.
14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



SKIA6862E

Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

AKS00CCL

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 M41
 - Harness connector E211

OK or NG

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

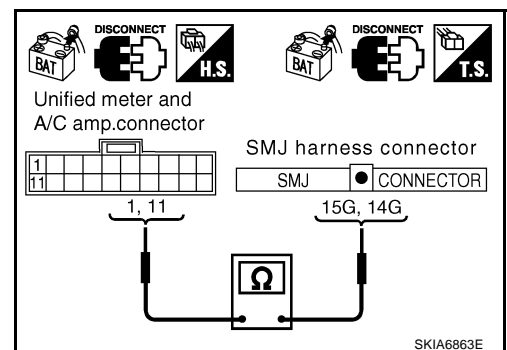
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.
11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



SKIA6863E

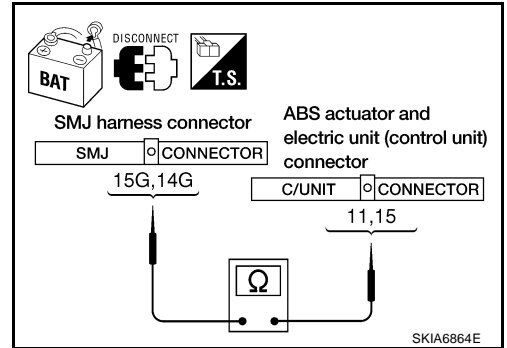
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.
14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
 NG >> Repair harness.



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

AKS00CCM

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 E205
 - Harness connector B5

OK or NG

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

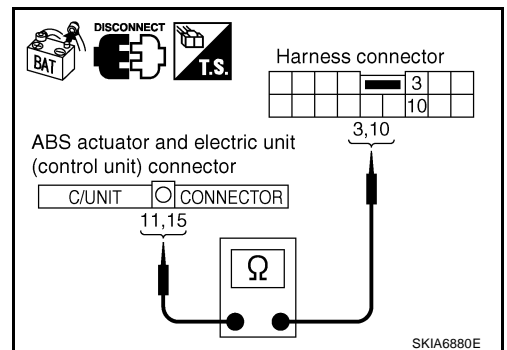
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and harness connector E205 terminals 3 (L), 10 (R).

11 (L) - 3 (L) : Continuity should exist.
15 (R) - 10 (R) : Continuity should exist.

OK or NG

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



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3. CHECK HARNESS FOR OPEN CIRCUIT

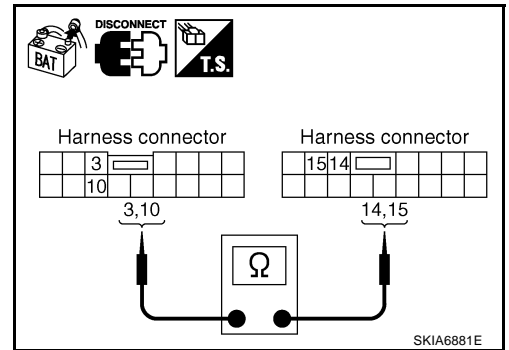
1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L), 10 (R) and harness connector B8 terminals 14 (L), 15 (R).

3 (L) - 14 (L) : Continuity should exist.

10 (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

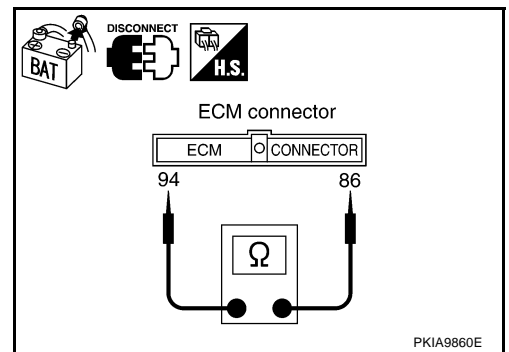
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and harness connector M82.



TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

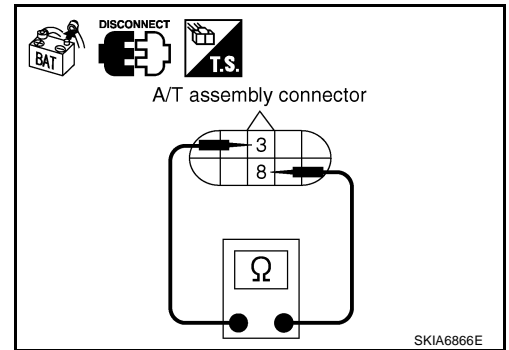
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



AKS00CCP

Display 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 unit for damage, bend and loose connection (unit side and harness side).

OK or NG

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

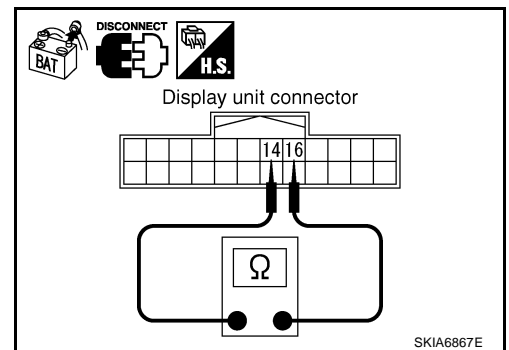
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display unit connector.
2. Check resistance between display unit harness connector M62 terminals 14 (L) and 16 (R).

14 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit and harness connector M82.



AKS00CCQ

AWD 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 AWD control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

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

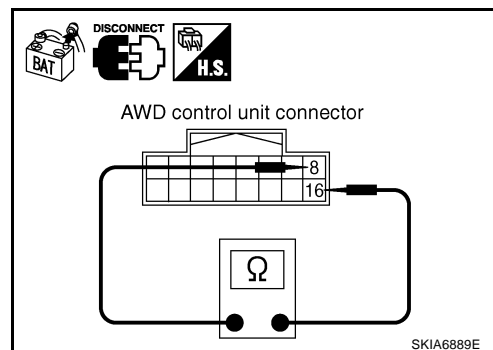
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector M92 terminals 8 (L) and 16 (R).

8 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace AWD control unit.
 NG >> Repair harness between AWD control unit and harness connector M82.



Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

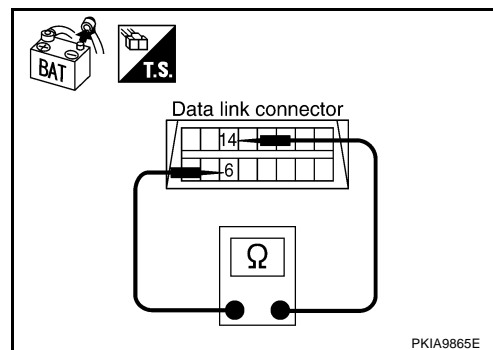
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
 NG >> Repair harness between data link connector and BCM.



BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

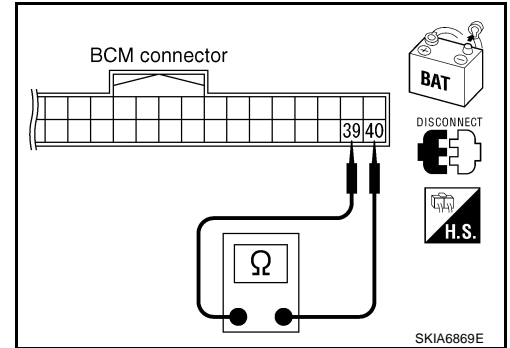
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and data link connector.



AKS00CCT

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.

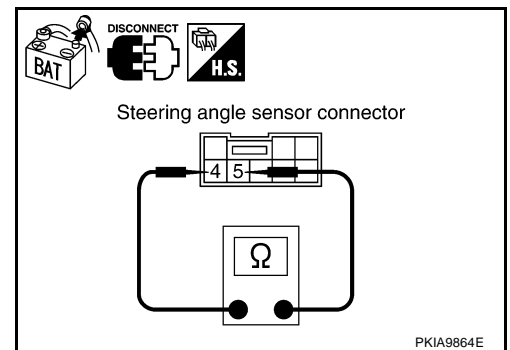
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



AKS00CCU

LDW Camera 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 (unit side and harness side).
 - LDW camera unit connector
 - Harness connector R1
 - Harness connector M31

OK or NG

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

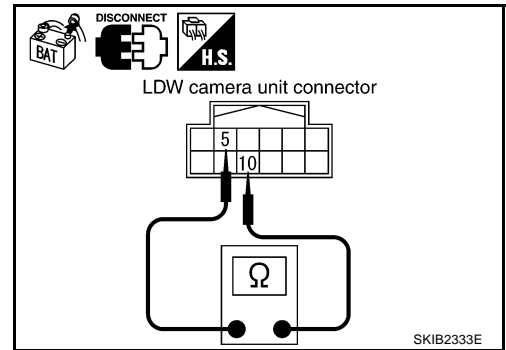
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check resistance between LDW camera unit harness connector R9 terminals 10 (L) and 5 (R).

10 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace LDW camera unit.
NG >> GO TO 3.



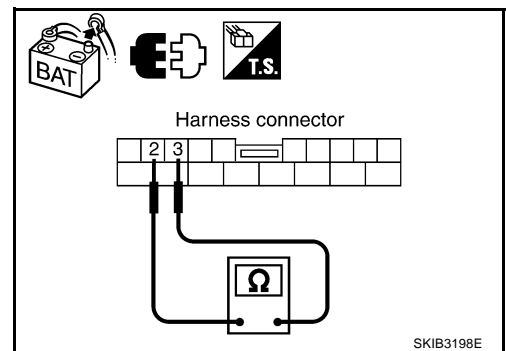
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector R1.
2. Check resistance between harness connector M31 terminals 2 (L) and 3 (R).

2 (L) - 3 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
NG >> Replace harness between LDW camera unit and harness connector R1.



Unified Meter and A/C Amp. Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

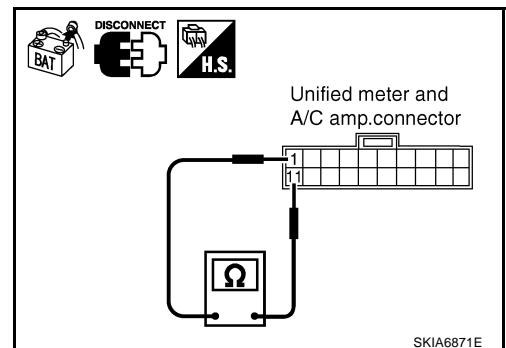
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



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.

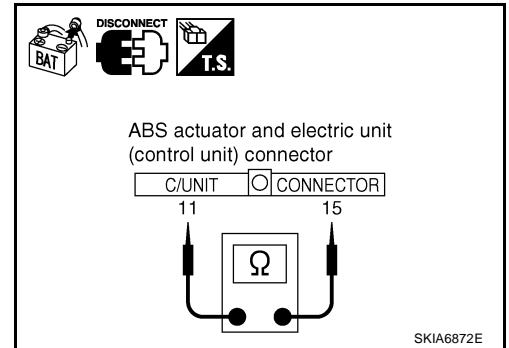
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

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 E205.



AKS00CCX

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 B151
 - Harness connector B8

OK or NG

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

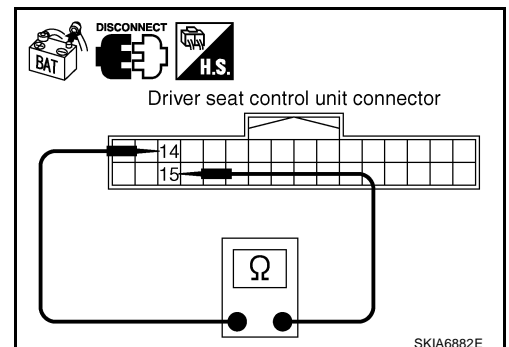
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit and harness connector B5.



IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

OK or NG

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

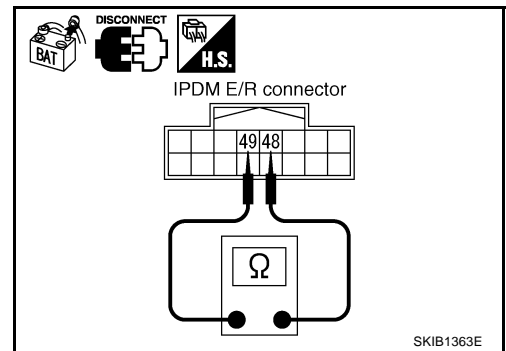
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R and harness connector B8.



CAN Communication Circuit Inspection**1. CHECK CONNECTOR**

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

OK or NG

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

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2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display unit connector
 - AWD control unit connector
 - BCM connector
 - Steering angle sensor connector
 - Harness connector M31
 - Unified meter and A/C amp. connector
 - Harness connector M41
2. Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

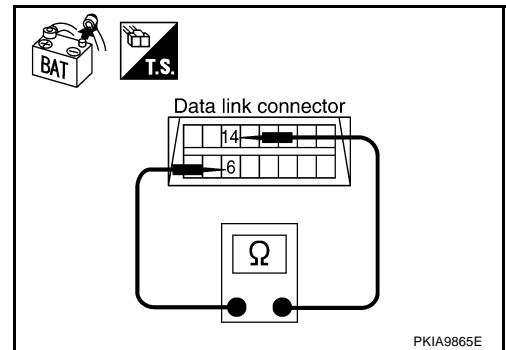
6 (L) - 14 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and harness connector M31
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

6 (L) - Ground : Continuity should not exist.

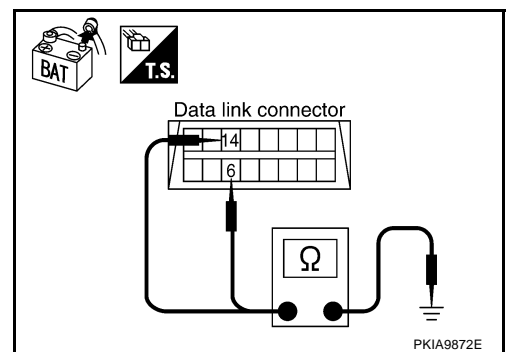
14 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and harness connector M31
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



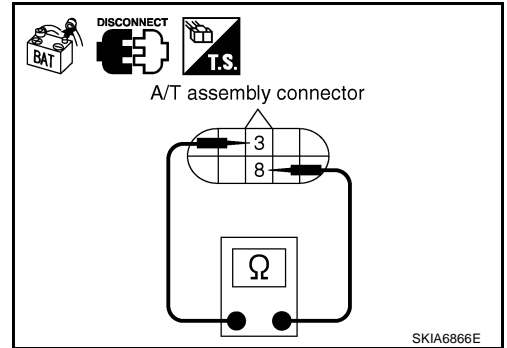
4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Continuity should not exist.

OK or NG

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



5. CHECK HARNESS FOR SHORT CIRCUIT

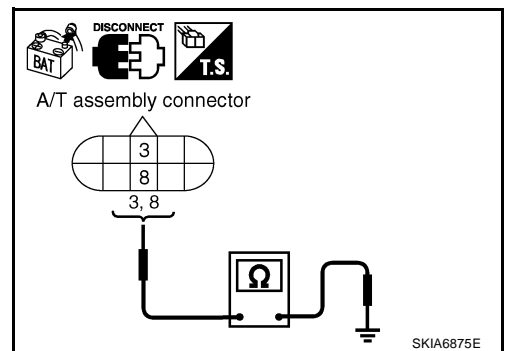
Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

3 (L) - Ground : Continuity should not exist.

8 (R) - Ground : Continuity should not exist.

OK or NG

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



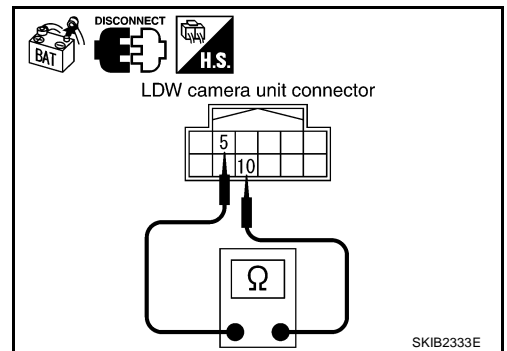
6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check continuity between LDW camera unit harness connector R9 terminals 10 (L) and 5 (R).

10 (L) - 5 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 7.
 NG >> Replace harness between LDW camera unit and harness connector R1.



7. CHECK HARNESS FOR SHORT CIRCUIT

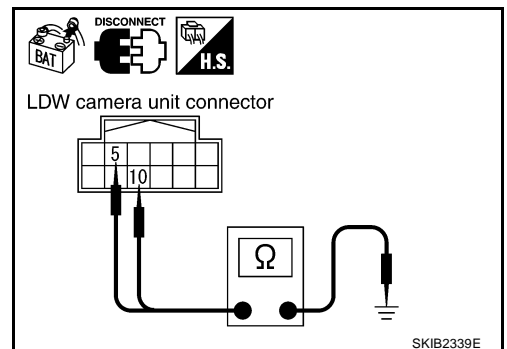
Check continuity between LDW camera unit harness connector R9 terminals 10 (L), 5 (R) and ground.

10 (L) - Ground : Continuity should not exist.

5 (R) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 8.
 NG >> Replace harness between LDW and harness connector R1.



8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

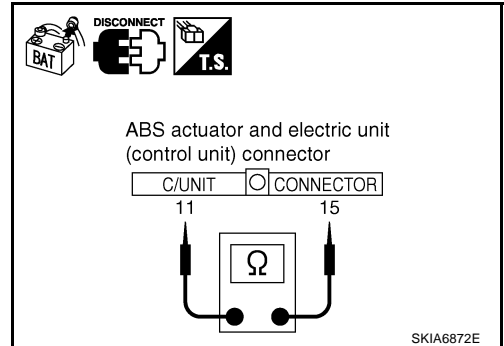
11 (L) - 15 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 9.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

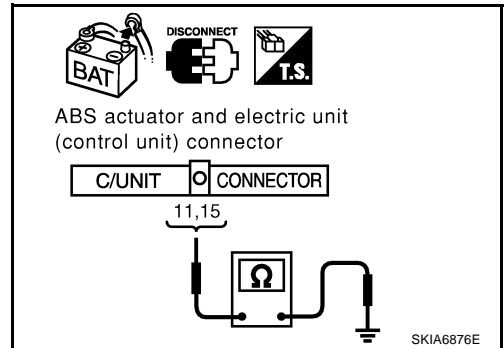
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

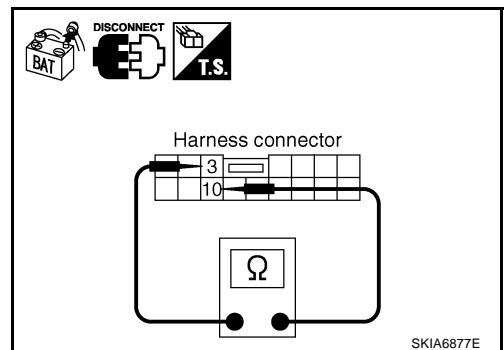
3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 11.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

3 (L) - Ground : Continuity should not exist.

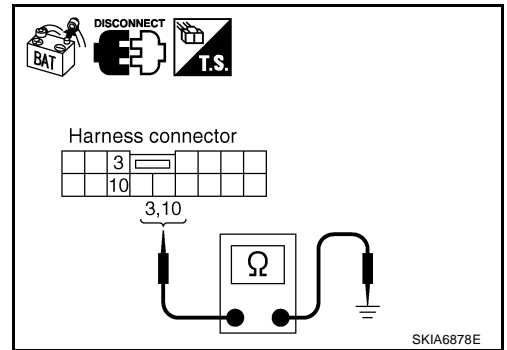
10 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 12.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



12. CHECK HARNESS FOR SHORT CIRCUIT

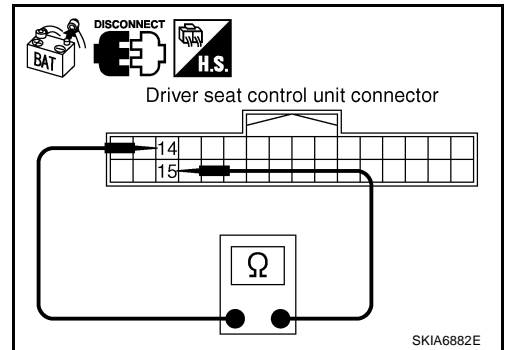
1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Continuity should not exist.

OK or NG

OK >> GO TO 13.

NG >> Repair harness between driver seat control unit and harness connector B151.



13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector B152 terminals 14 (OR), 15 (SB) and ground.

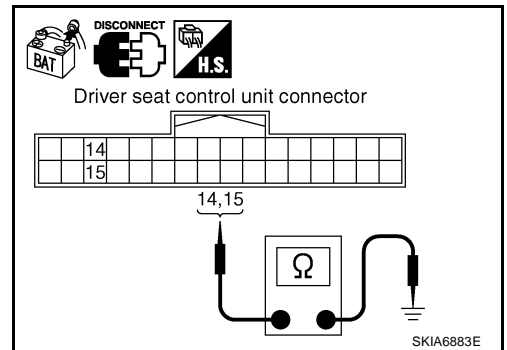
14 (OR) - Ground : Continuity should not exist.

15 (SB) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 14.

NG >> Repair harness between driver seat control unit and harness connector B151.



14. CHECK HARNESS FOR SHORT CIRCUIT

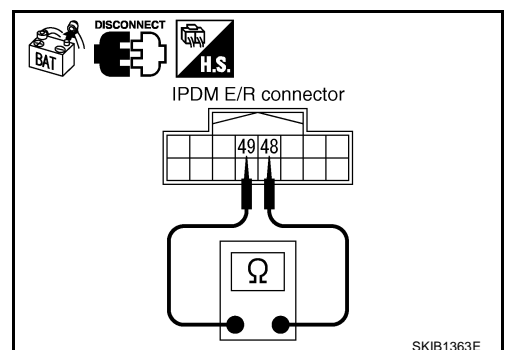
1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 15.

NG >> Repair harness between IPDM E/R and harness connector E205.



15. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

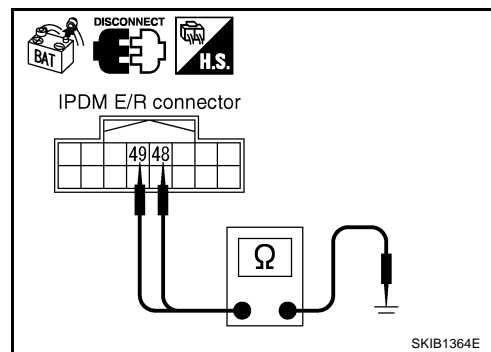
48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 16.

NG >> Repair harness between IPDM E/R and harness connector E205.



16. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω

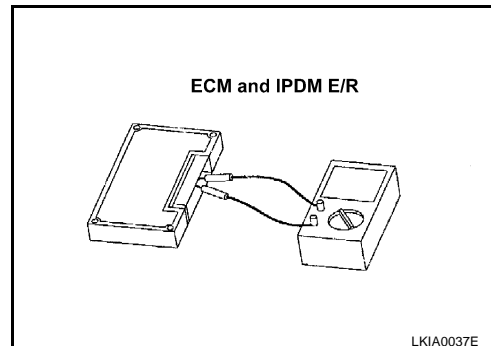
3. Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

OK or NG

OK >> GO TO 17.

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



17. CHECK SYMPTOM

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

OK or NG

OK >> GO TO 18.

NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

18. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

Not reproduced>>Replace removed unit.

IPDM E/R Ignition Relay Circuit Inspection

AKS00C00

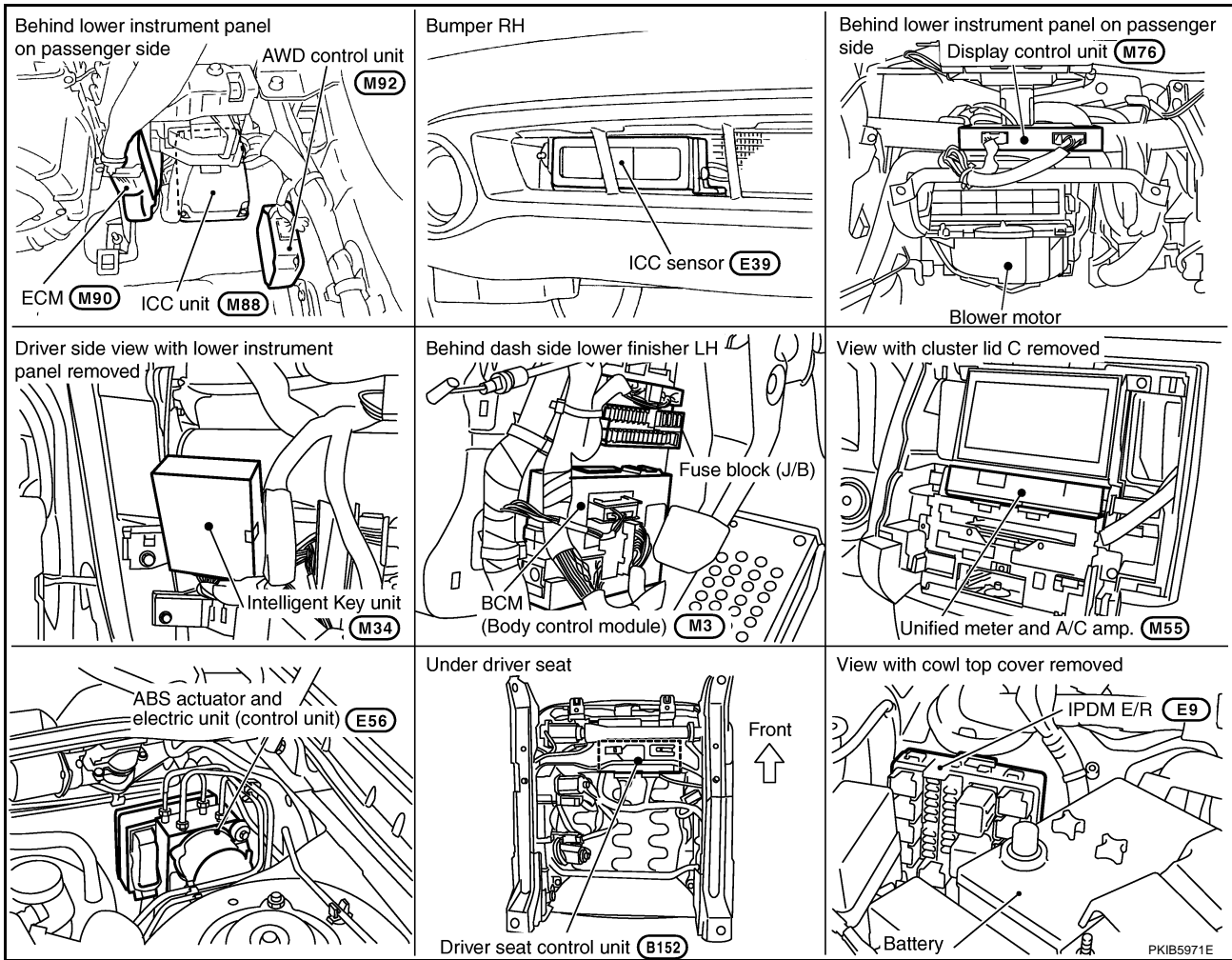
Check the following. If no malfunction is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-28, "IPDM E/R Power/Ground Circuit Inspection"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START" .](#)

LAN

CAN SYSTEM (TYPE 7)

Component Parts and Harness Connector Location



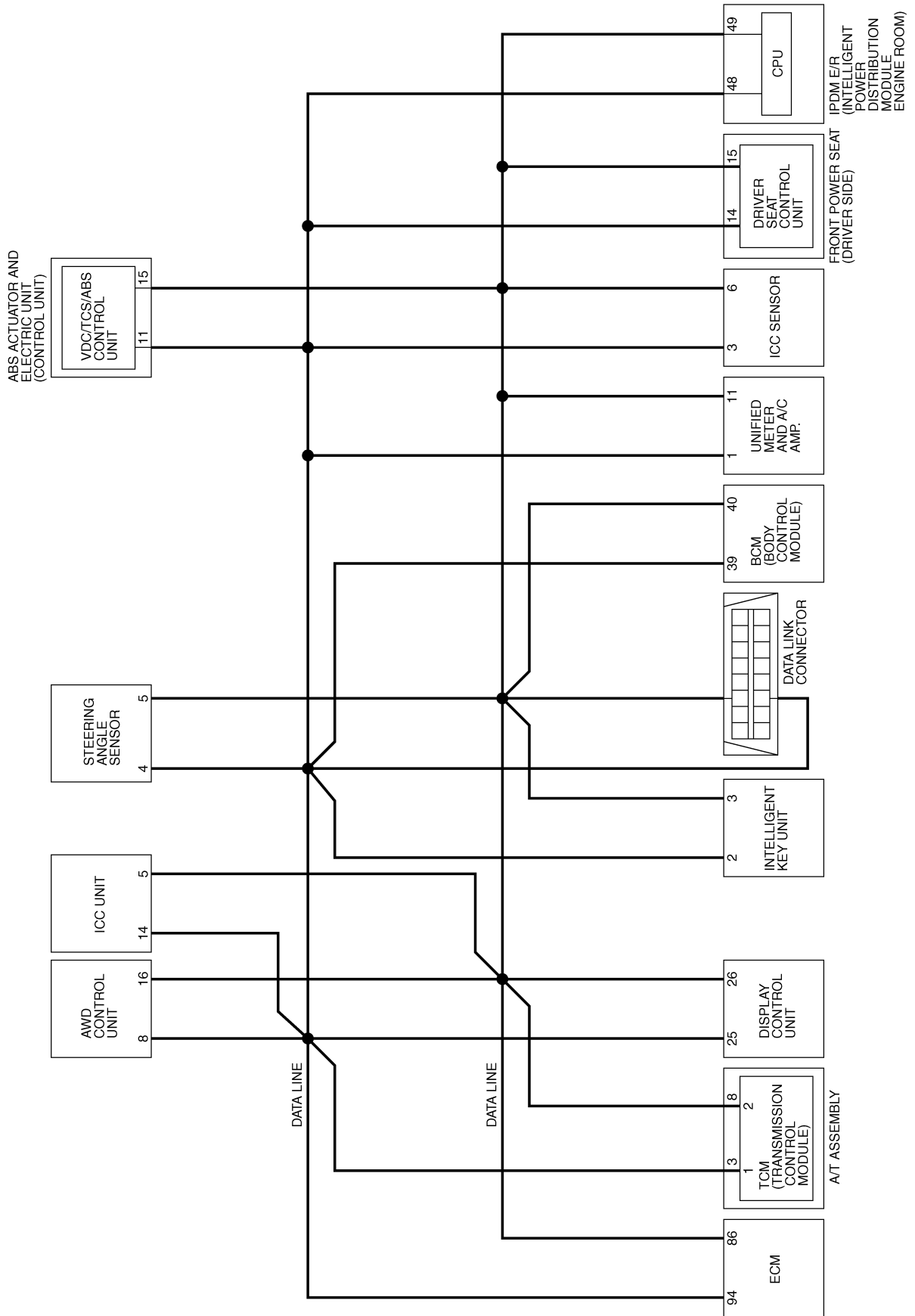
PKIB5971E

CAN SYSTEM (TYPE 7)

[CAN]

Schematic

AKS00C/BR



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TKWM2371E

CAN SYSTEM (TYPE 7)

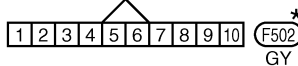
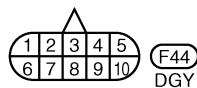
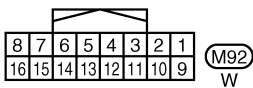
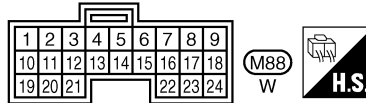
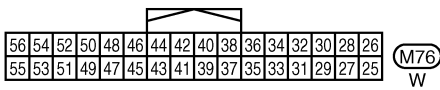
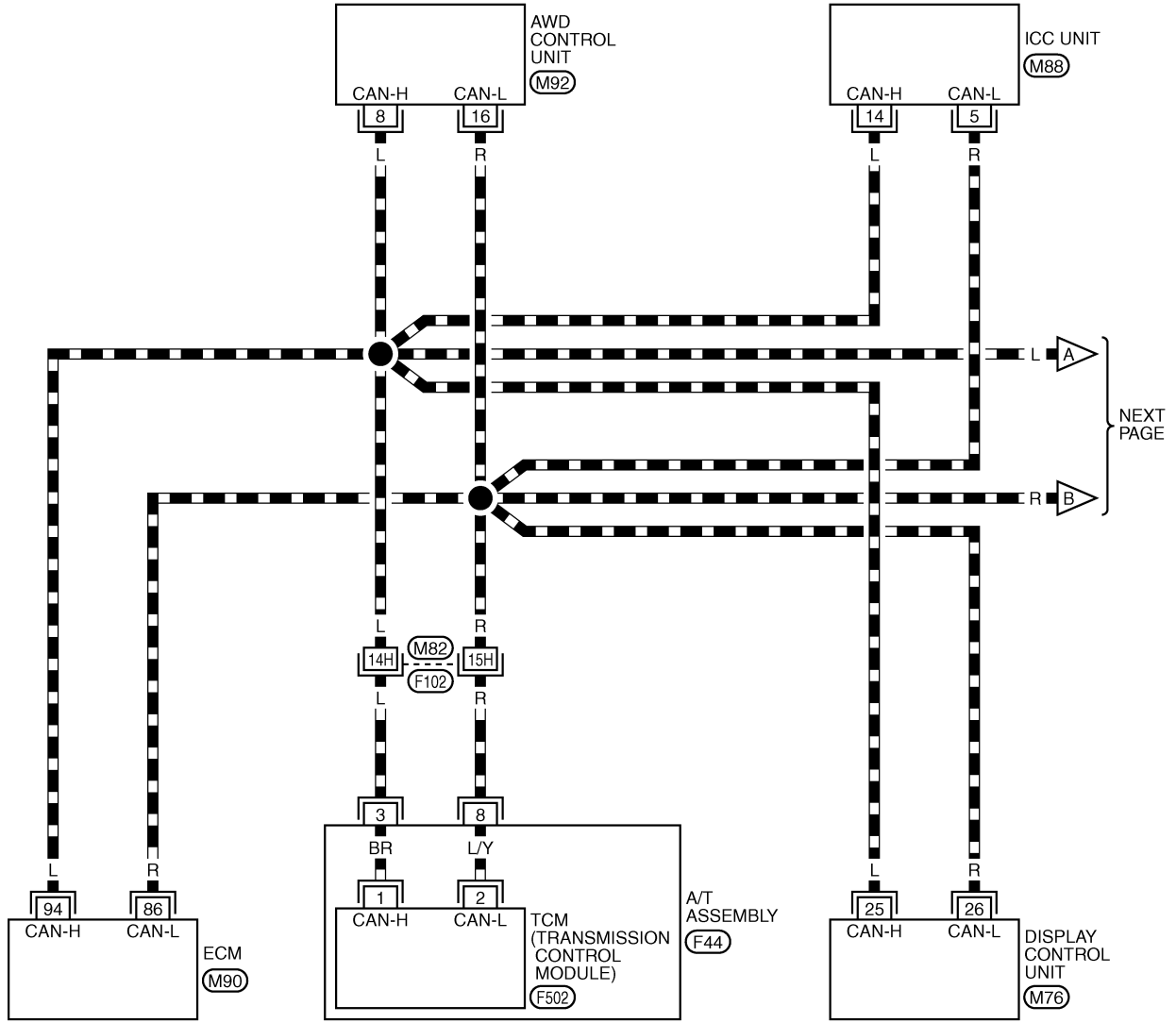
[CAN]

Wiring Diagram - CAN -

AKS00CBS

LAN-CAN-19

▬ : DATA LINE



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

REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M90) -ELECTRICAL UNITS

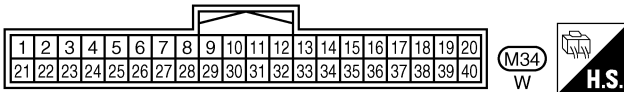
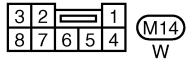
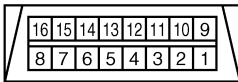
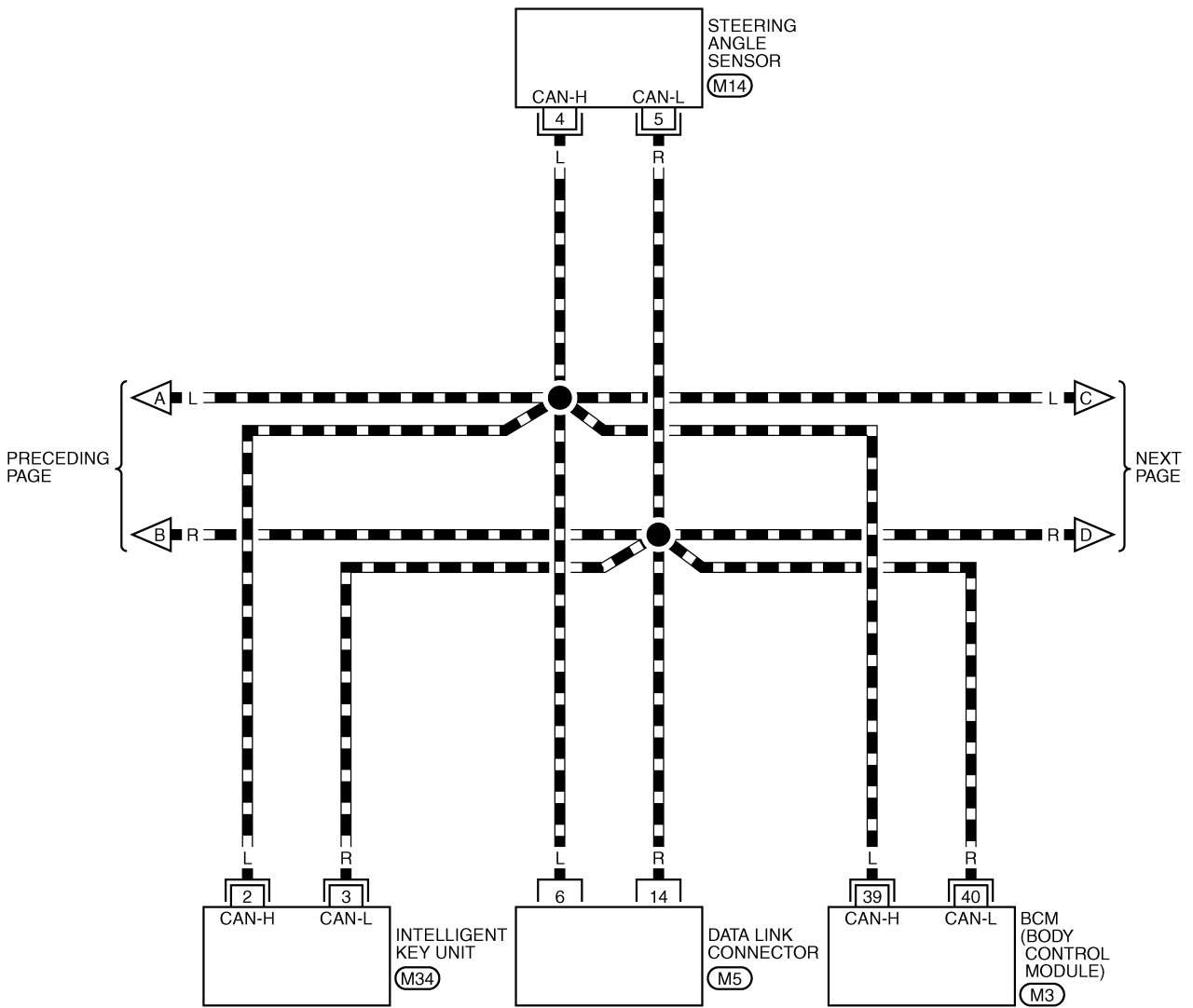
TKWM2372E

CAN SYSTEM (TYPE 7)

[CAN]

LAN-CAN-20

▬ : DATA LINE

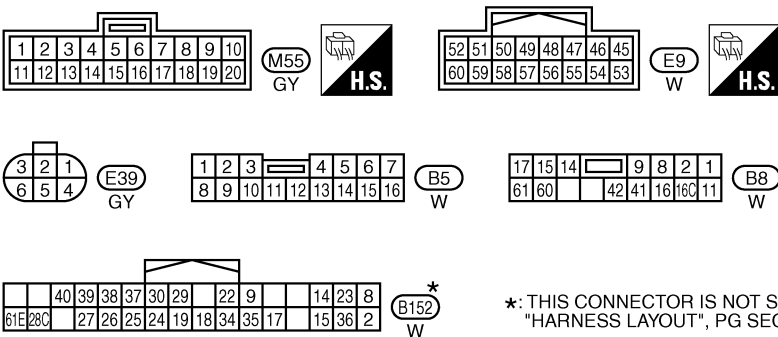
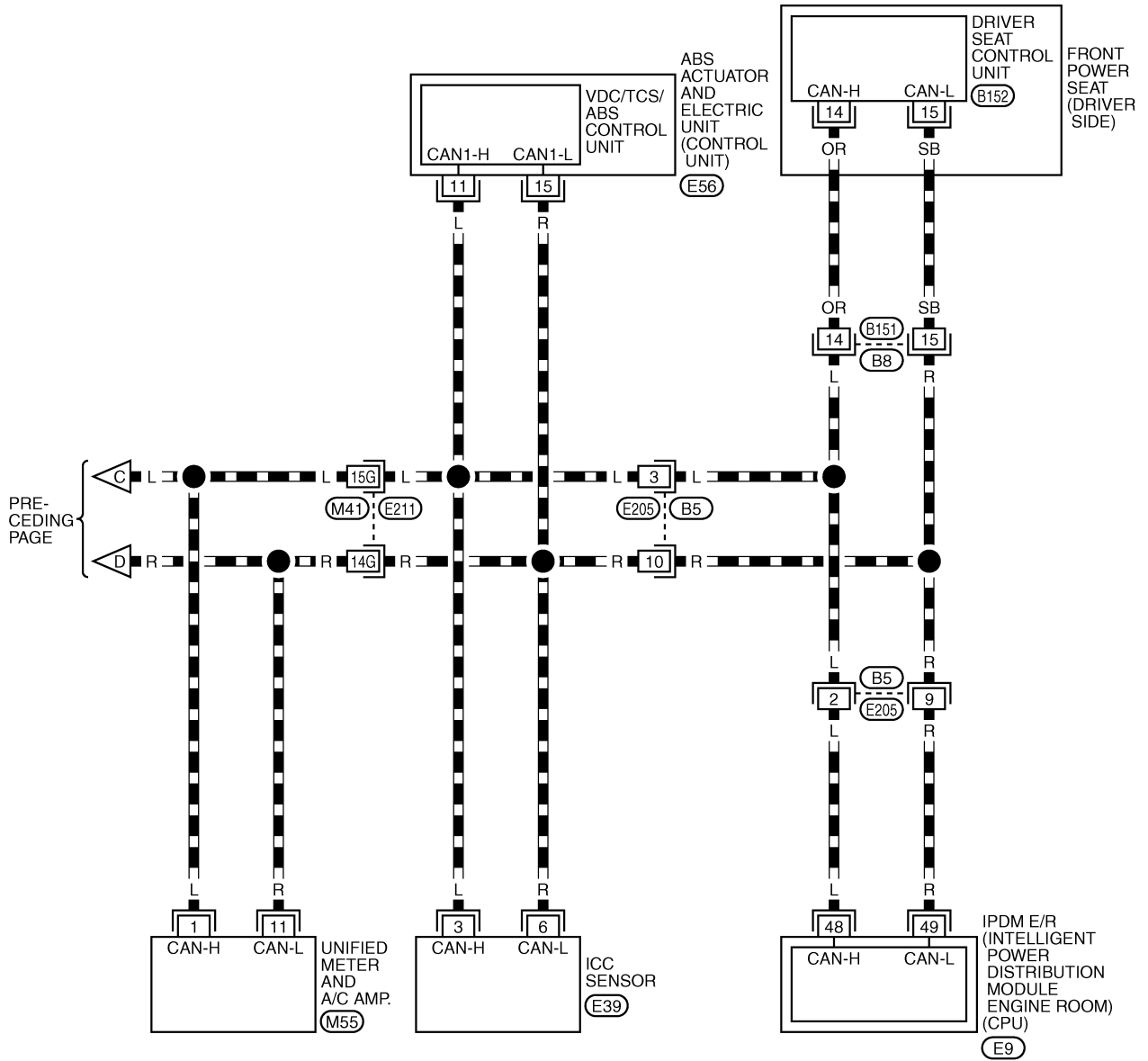


REFER TO THE FOLLOWING.
 (M3) -ELECTRICAL UNITS

TKWM2373E

LAN-CAN-21

DATA LINE



REFER TO THE FOLLOWING.

(E21) -SUPER MULTIPLE JUNCTION (SMJ)

(E56) -ELECTRICAL UNITS

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

TKWM2374E

CAN SYSTEM (TYPE 7)

[CAN]

AKS00CBT

Check Sheet

NOTE:

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

A
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LAN
L
M

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	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

PKIB4341E

CAN SYSTEM (TYPE 7)

[CAN]

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the 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/SEC	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

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

PKIB4177E

CAN SYSTEM (TYPE 7)

[CAN]

A
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Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS

Attach copy of
ICC
SELF-DIAG RESULTS

Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

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

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

PKIB4342E

CAN SYSTEM (TYPE 7)

[CAN]

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
A/T
CAN DIAG SUPPORT
MNTR

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

Attach copy of
ICC
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

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

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIB4343E

CAN SYSTEM (TYPE 7)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

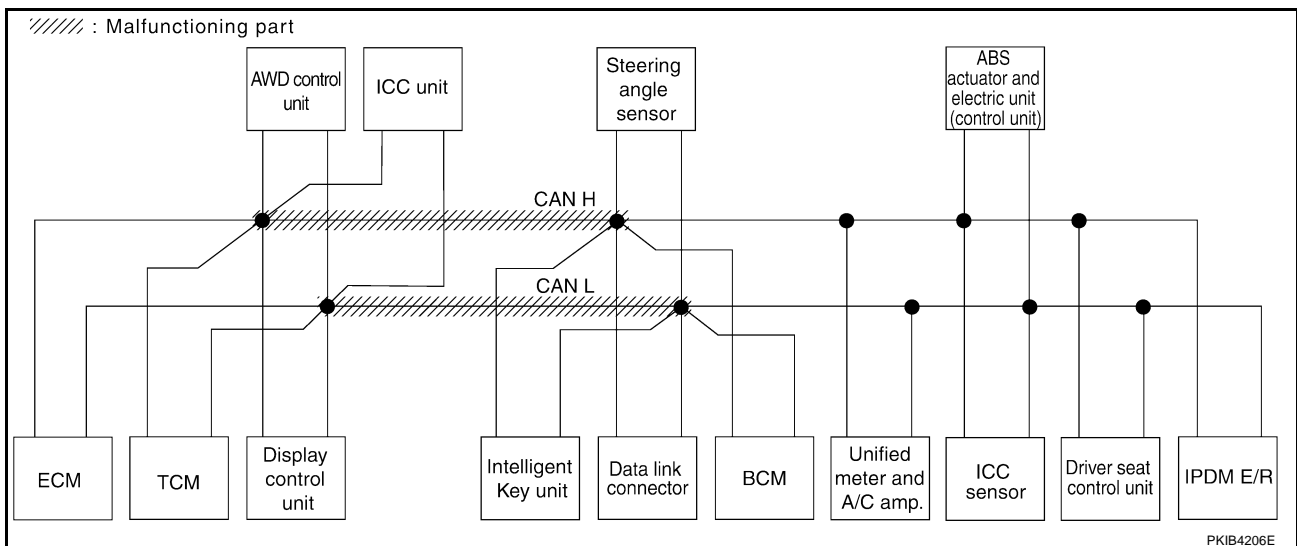
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to [LAN-333, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4360E



PKIB4206E

CAN SYSTEM (TYPE 7)

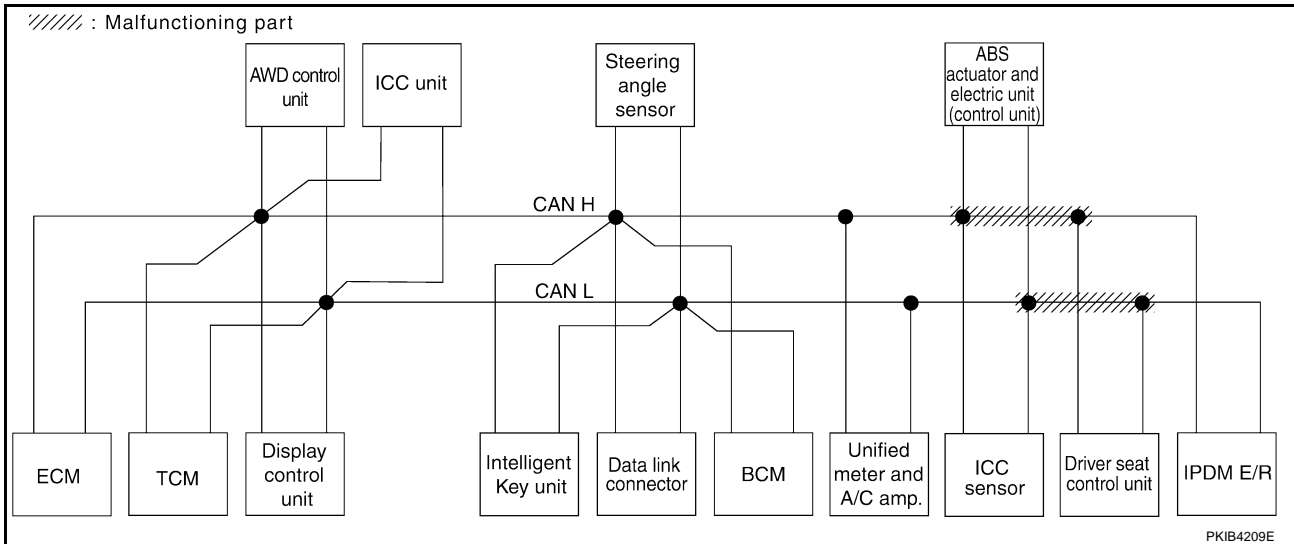
[CAN]

Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to [LAN-335, "Inspection Between ABS Actuator and Electric Unit \(Control Unit\) and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4363E



CAN SYSTEM (TYPE 7)

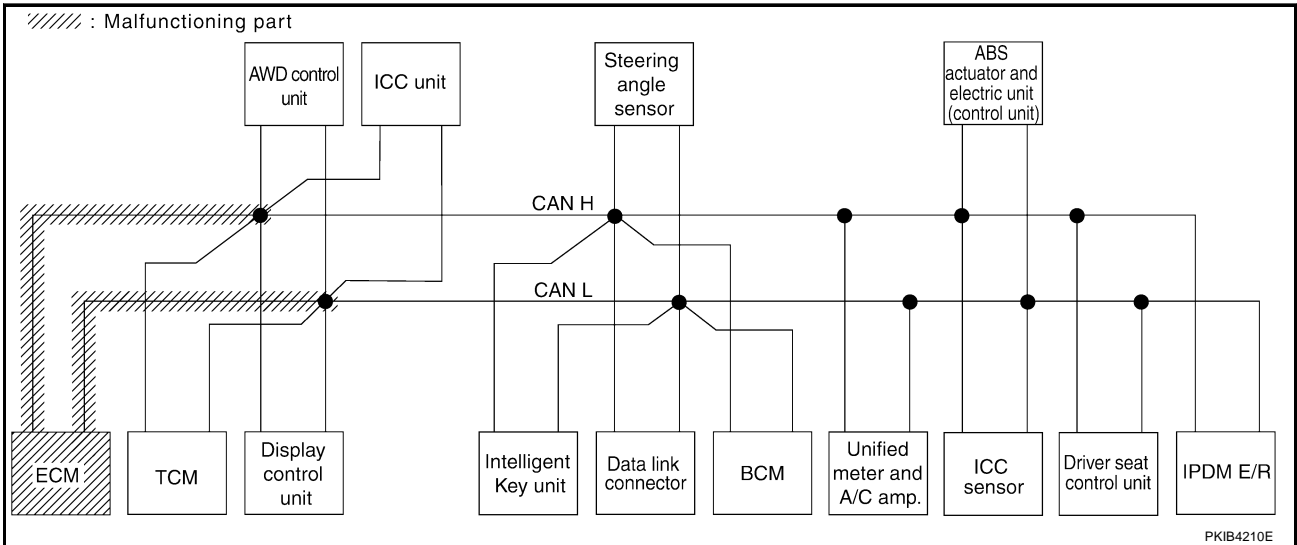
[CAN]

Case 5

Check ECM circuit. Refer to [LAN-336, "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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR					VDC/TCS /ABS	IPDM E/R
ENGINE	—	NG	✓	—	✓	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓
A/T	—	NG	UNKWN	✓	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—	✓	—
Display control unit	—	NG	UNKWN	✓	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	✓	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	✓	—
ICC	—	NG	UNKWN	✓	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	—	✓	—
INTELLIGENT KEY	No indication	—	UNKWN	✓	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	✓	—
BCM	No indication	NG	UNKWN	✓	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—	✓	—
METER A/C AMP	No indication	—	UNKWN	✓	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	✓	—
ABS	—	NG	UNKWN	✓	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	✓	—
IPDM E/R	No indication	—	UNKWN	✓	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	✓	—

PKIB4364E



PKIB4210E

CAN SYSTEM (TYPE 7)

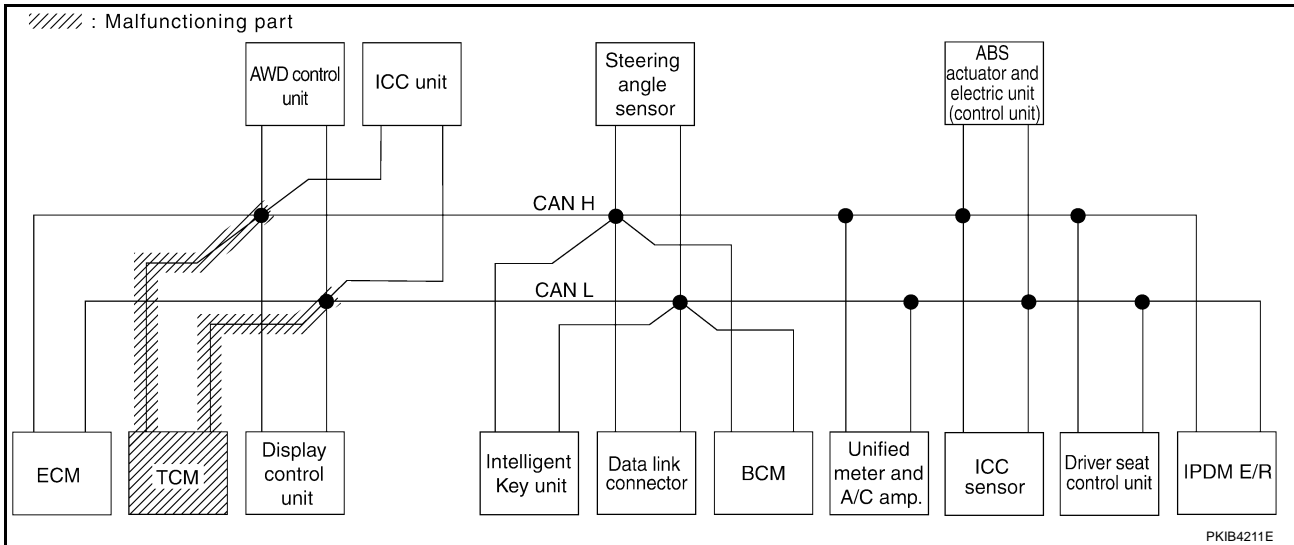
[CAN]

Case 6

Check TCM circuit. Refer to [LAN-336, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN ✓	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN ✓	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4365E



PKIB4211E

CAN SYSTEM (TYPE 7)

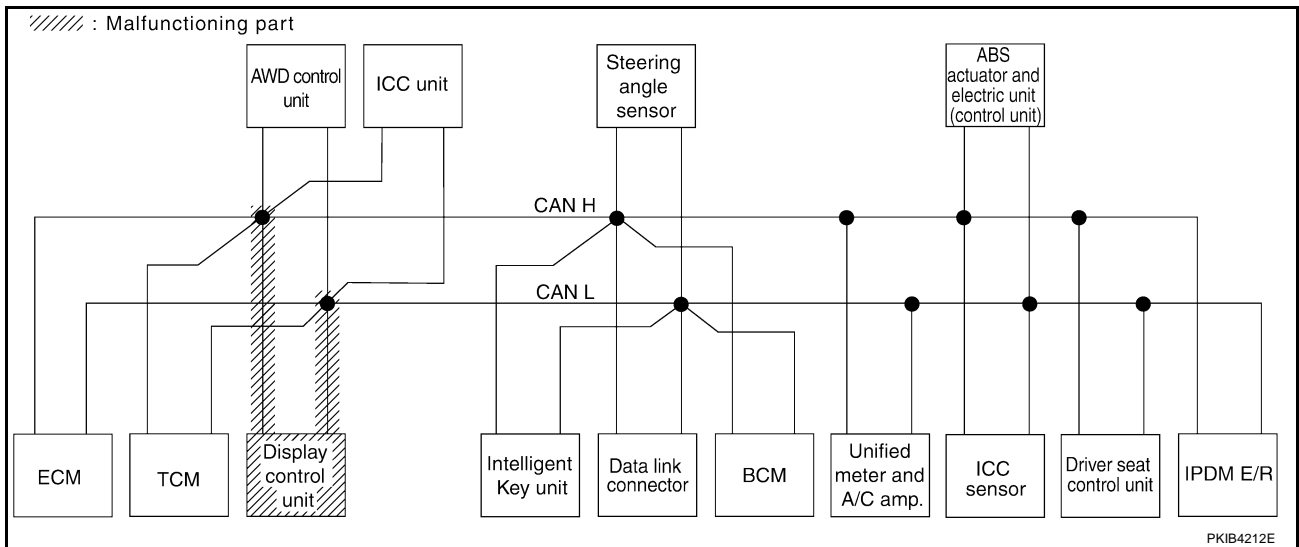
[CAN]

Case 7

Check display control unit circuit. Refer to [LAN-337, "Display Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis											CAN COMM CIRCUIT (U1000)			CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS				
ENGINE	—	NG	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)	—	
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB4366E



PKIB4212E

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LAN

CAN SYSTEM (TYPE 7)

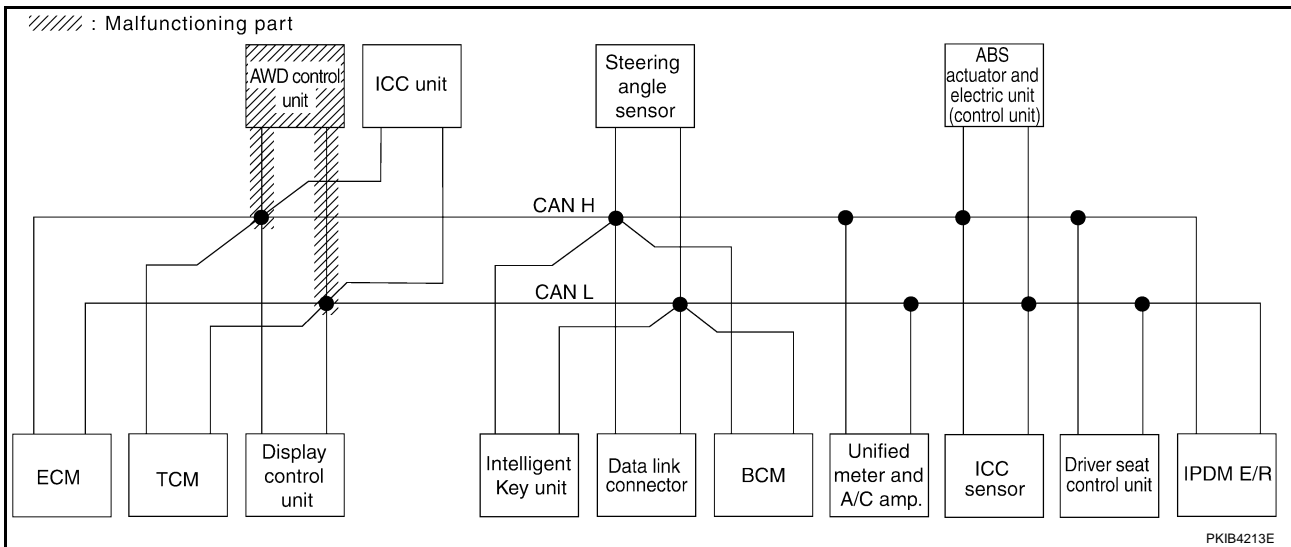
[CAN]

Case 8

Check AWD control unit circuit. Refer to [LAN-337, "AWD Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	✓	—	—	—	—	—	—	—	—	—	—	—	—	✓	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	✓	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	✓	—	—	—	UNKWN	—	—	—	—	✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4367E



PKIB4213E

CAN SYSTEM (TYPE 7)

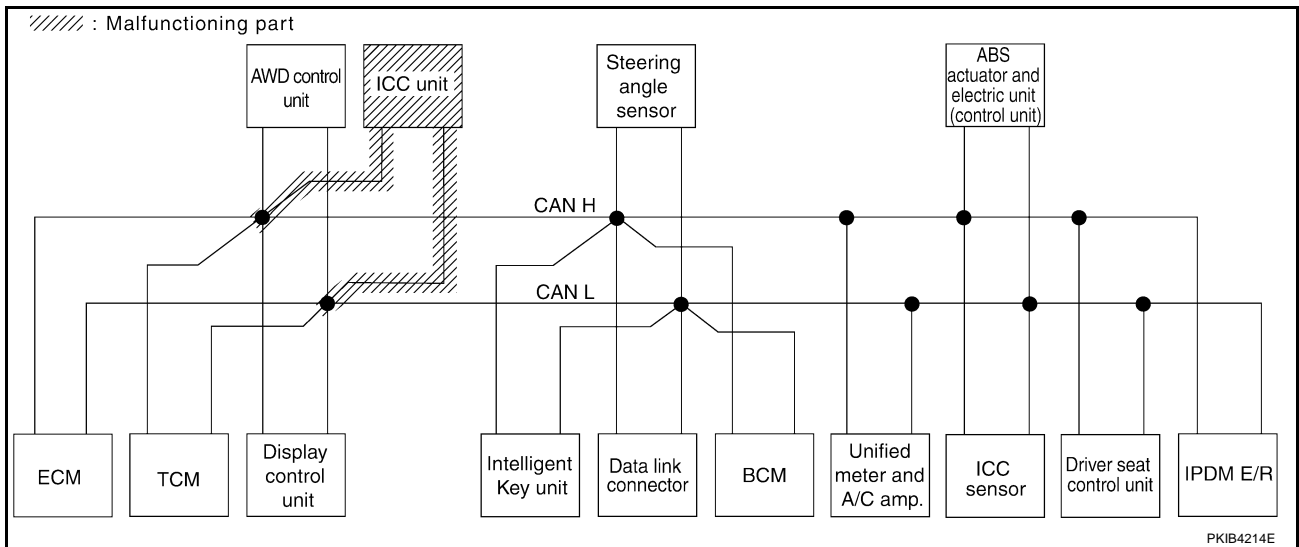
[CAN]

Case 9

Check ICC unit circuit. Refer to [LAN-338, "ICC Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R
ENGINE	—	NG	UNKW	—	UNKW	—	—	UNKW	—	UNKW	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKW	UNKW	—	—	—	—	—	UNKW	—	UNKW	—	UNKW	—	—	—
ALL MODE AWD/4WD	—	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKW	UNKW	UNKW	—	—	—	—	UNKW	—	—	UNKW	UNKW	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKW	UNKW	—	—	—	—	—	—	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	—	—	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	UNKW	—	—	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKW	—	UNKW	—	—	—	—	UNKW	—	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	—	—	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4368E



PKIB4214E

CAN SYSTEM (TYPE 7)

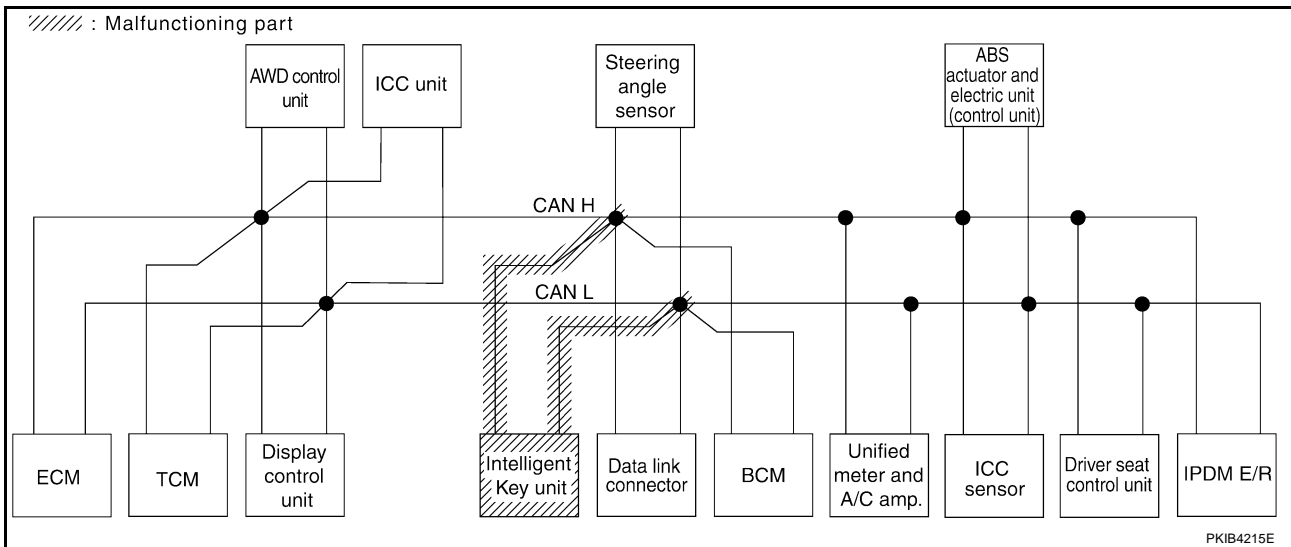
[CAN]

Case 10

Check Intelligent Key unit circuit. Refer to [LAN-338, "Intelligent Key Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN ✓	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4369E



PKIB4215E

CAN SYSTEM (TYPE 7)

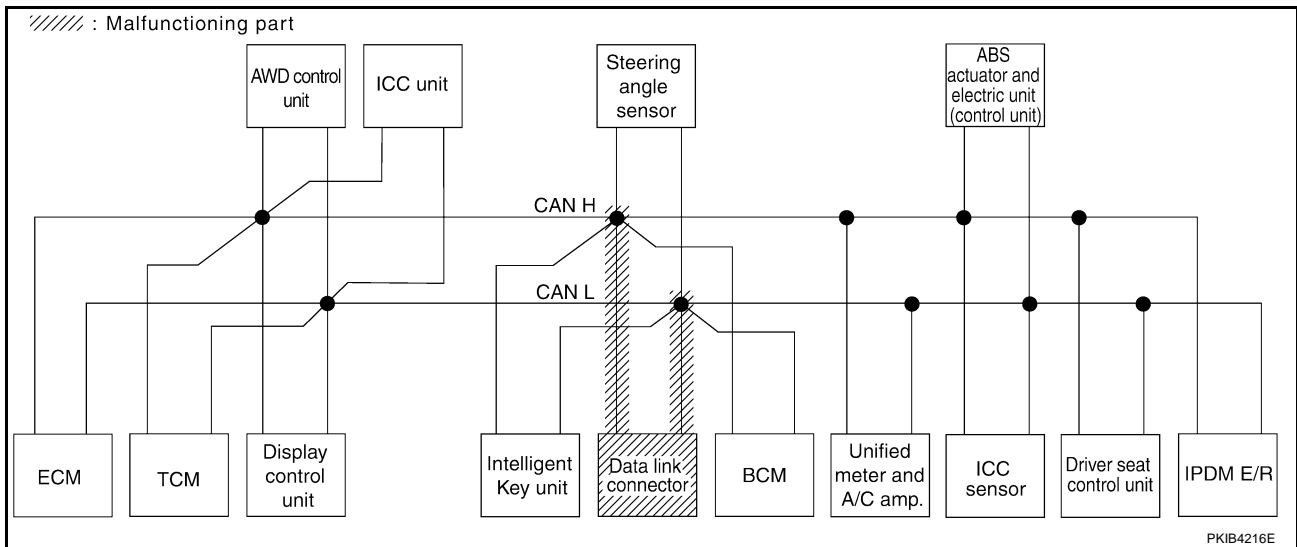
[CAN]

Case 11

Check data link connector circuit. Refer to [LAN-339, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	NG indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	NG indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	NG indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	NG indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	NG indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4370E



PKIB4216E

CAN SYSTEM (TYPE 7)

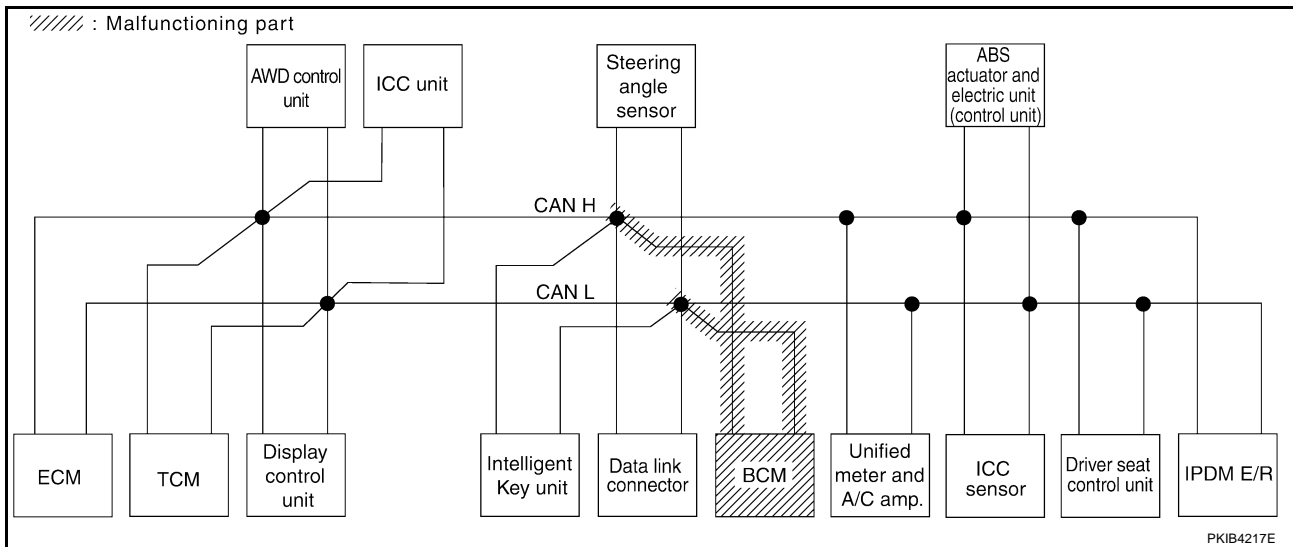
[CAN]

Case 12

Check BCM circuit. Refer to [LAN-339, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4371E



PKIB4217E

CAN SYSTEM (TYPE 7)

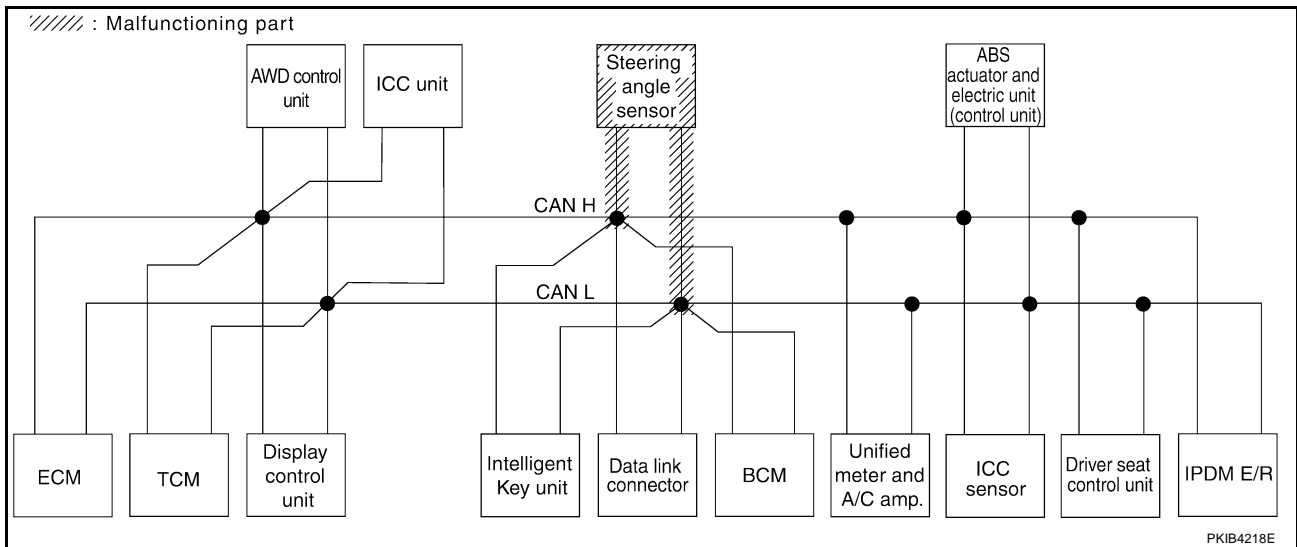
[CAN]

Case 13

Check steering angle sensor circuit. Refer to [LAN-340, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4372E



PKIB4218E

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CAN SYSTEM (TYPE 7)

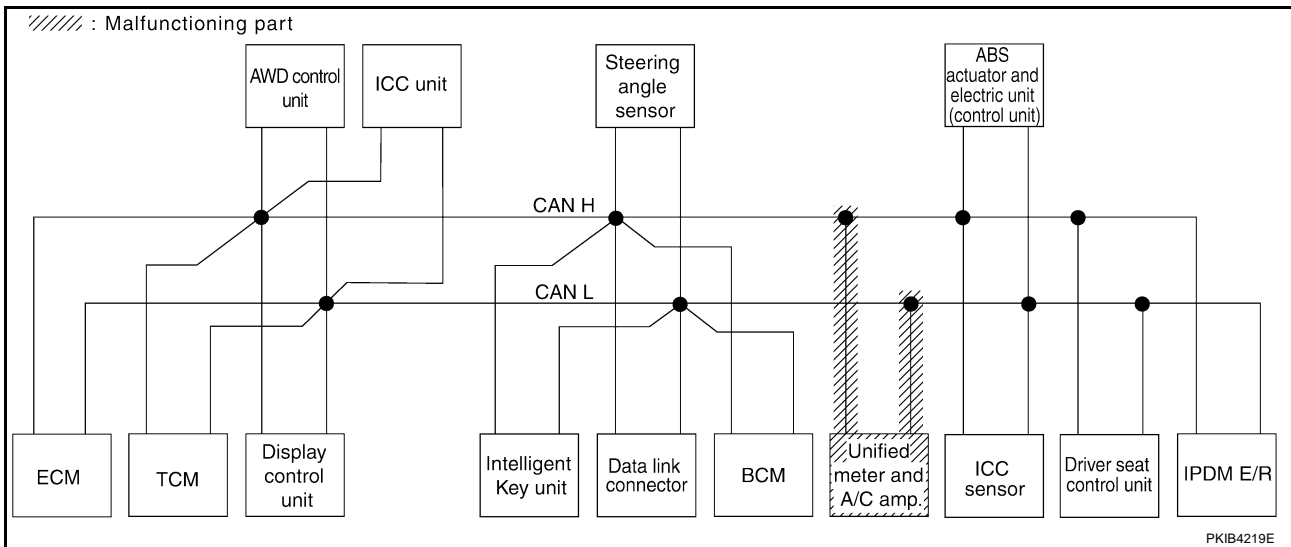
[CAN]

Case 14

Check unified meter and A/C amp. circuit. Refer to [LAN-340, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis															
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4373E



PKIB4219E

CAN SYSTEM (TYPE 7)

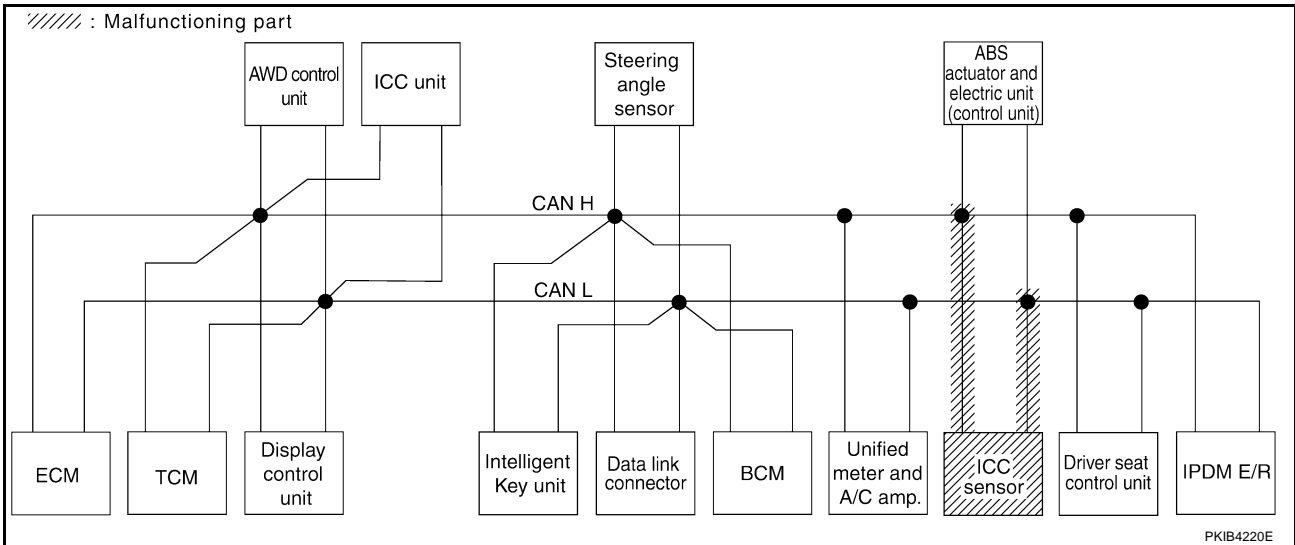
[CAN]

Case 15

Check ICC sensor circuit. Refer to [LAN-341, "ICC Sensor Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	✓	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4374E



PKIB4220E

CAN SYSTEM (TYPE 7)

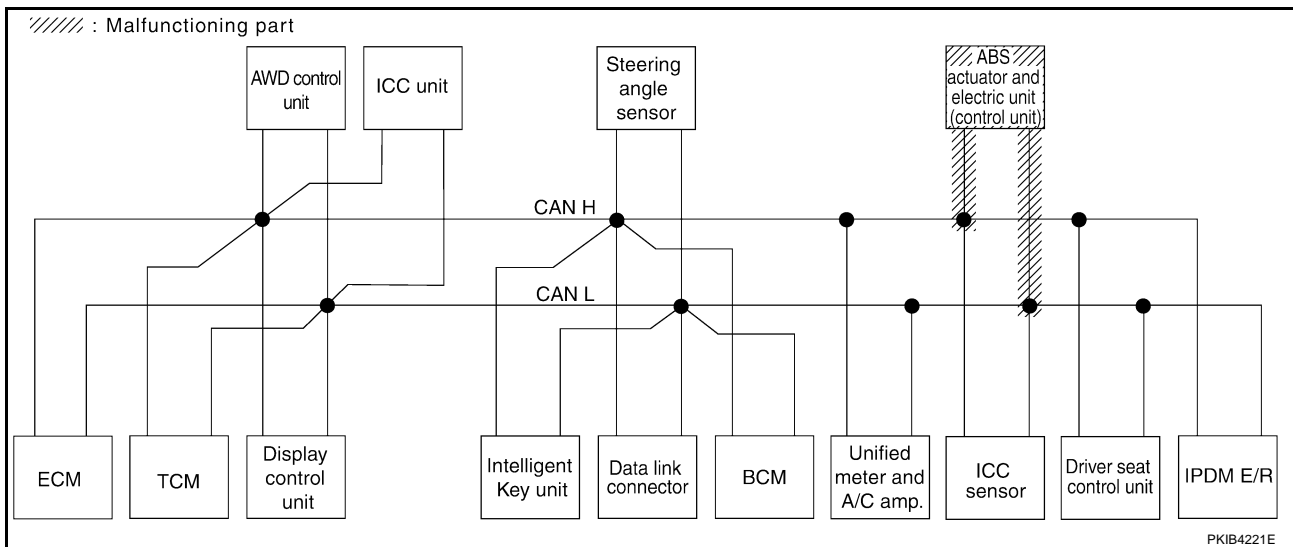
[CAN]

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-341, "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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	✓	✓	✓	✓	—	✓	—	—	—	✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4375E



CAN SYSTEM (TYPE 7)

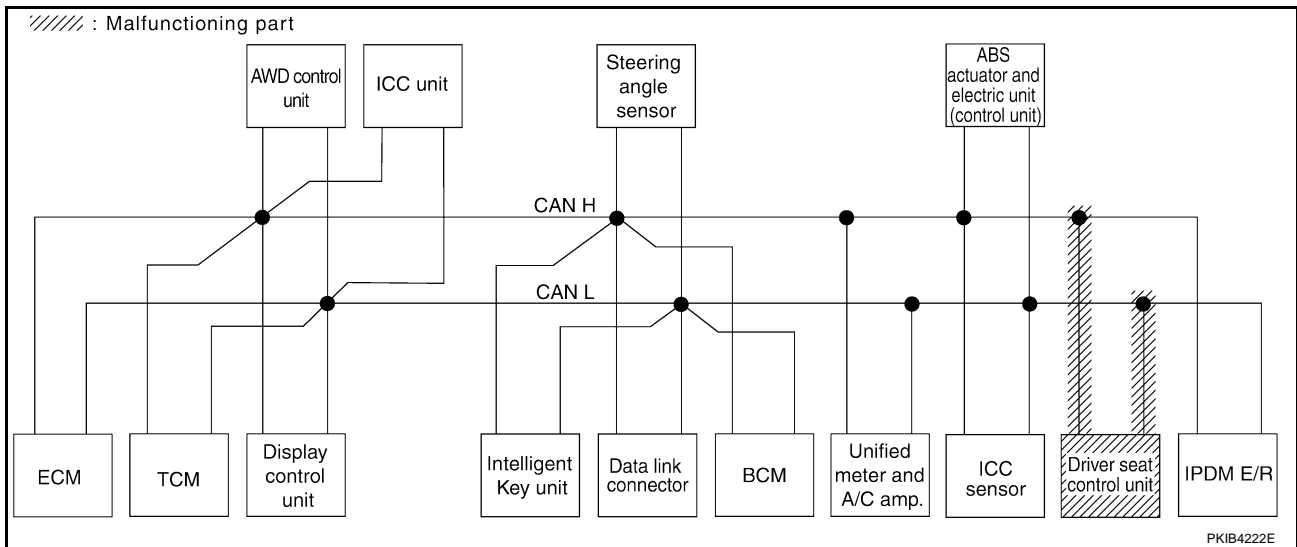
[CAN]

Case 17

Check driver seat control unit circuit. Refer to [LAN-342, "Driver Seat Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4376E



PKIB4222E

CAN SYSTEM (TYPE 7)

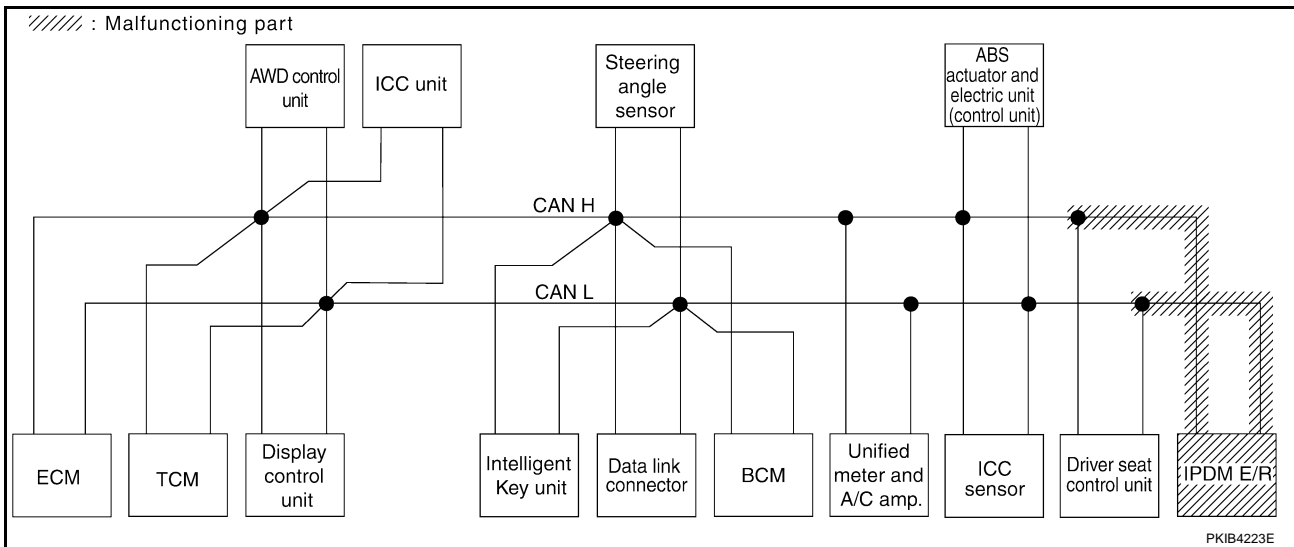
[CAN]

Case 18

Check IPDM E/R circuit. Refer to [LAN-343, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	✓	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4377E



PKIB4223E

CAN SYSTEM (TYPE 7)

[CAN]

Case 19

Check CAN communication circuit. Refer to [LAN-344, "CAN Communication 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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS					IPDM E/R
ENGINE	—	NG	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) ✓	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	—	—	—	—	—	UNKWN ✓	—	UNKWN ✓	—	—	—	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN ✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ICC	—	NG	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	—	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓	—
INTELLIGENT KEY	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
METER A/C AMP	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	—	—	—	UNKWN ✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication ✓	NG	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIB4378E

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CAN SYSTEM (TYPE 7)

[CAN]

Case 20

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-350, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	UNKWN	—	✓	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	✓	✓	
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
ICC	—	NG	UNKWN	UNKWN	✓	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	✓	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	NG	UNKWN	—	✓	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB4379E

Case 21

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-350, "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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4380E

Inspection Between TCM and Data Link Connector Circuit

AKS00CBU

1. CHECK HARNESS FOR OPEN CIRCUIT

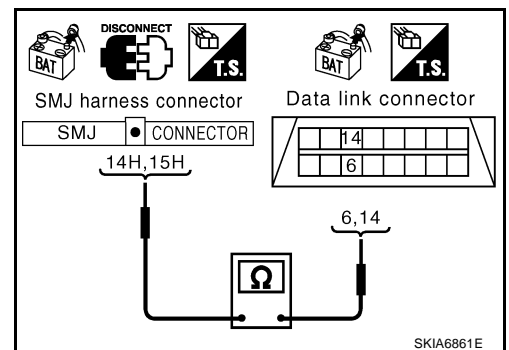
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Repair harness.



Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

AKS00CBV

1. CHECK HARNESS FOR OPEN CIRCUIT

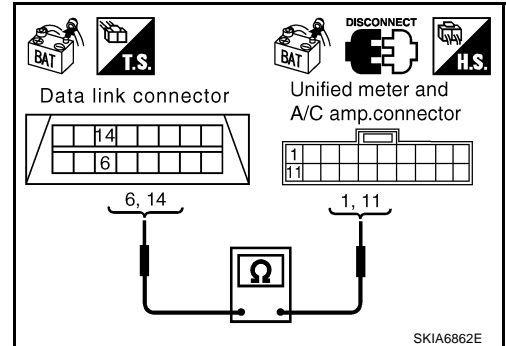
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.

14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



SKIA6862E

Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

AKS00CBW

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 M41
 - Harness connector E211

OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

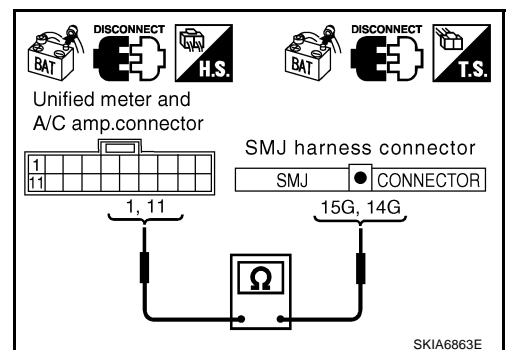
1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.

11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



SKIA6863E

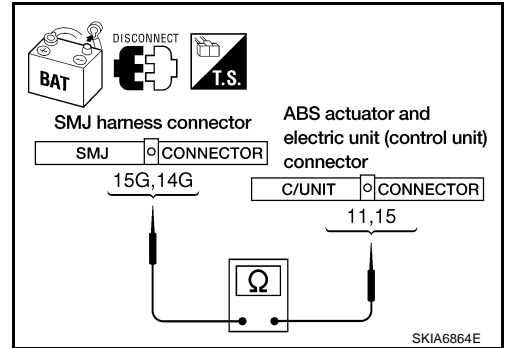
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.
14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
 NG >> Repair harness.



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

AKS00CBX

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 E205
 - Harness connector B5

OK or NG

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

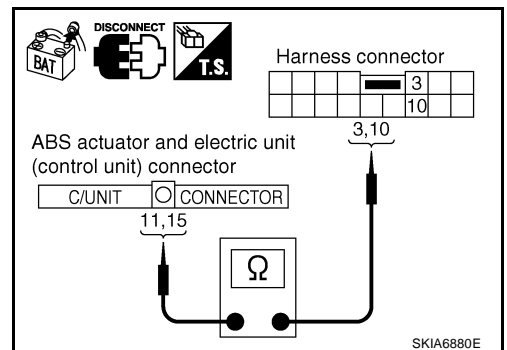
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and harness connector E205 terminals 3 (L), 10 (R).

11 (L) - 3 (L) : Continuity should exist.
15 (R) - 10 (R) : Continuity should exist.

OK or NG

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



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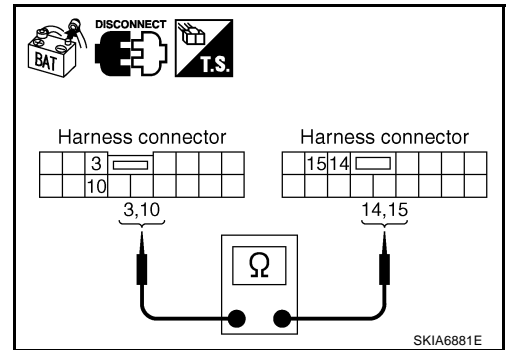
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L), 10 (R) and harness connector B8 terminals 14 (L), 15 (R).

3 (L) - 14 (L) : Continuity should exist.
10 (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

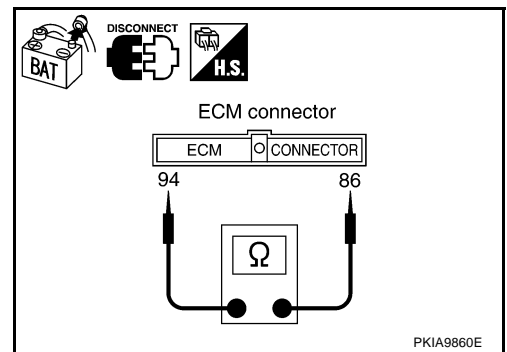
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and harness connector M82.



TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

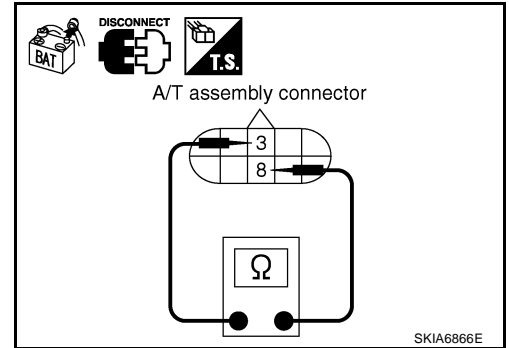
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



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.

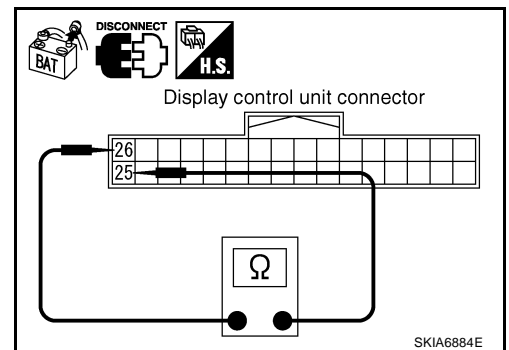
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display control unit connector.
2. Check resistance between display control unit harness connector M76 terminals 25 (L) and 26 (R).

25 (L) - 26 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit and harness connector M82.



AWD 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 AWD control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

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

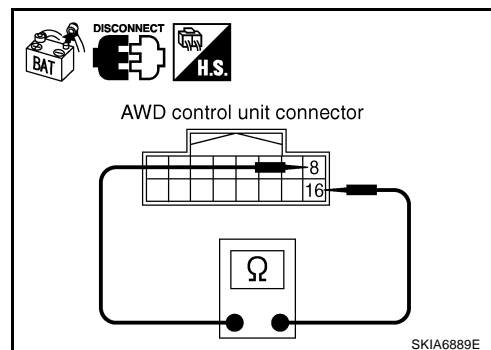
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector M92 terminals 8 (L) and 16 (R).

8 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace AWD control unit.
 NG >> Repair harness between AWD control unit and harness connector M82.



AKS00CC2

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.

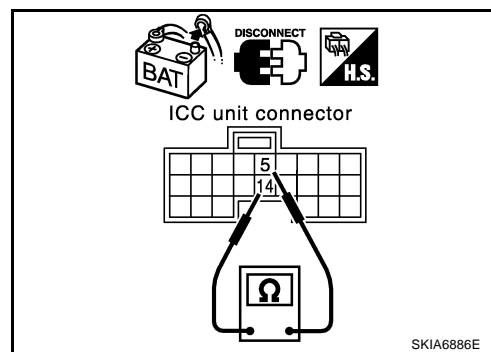
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC unit connector.
2. Check resistance between ICC unit harness connector M88 terminals 14 (L) and 5 (R).

14 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ICC unit.
 NG >> Repair harness between ICC unit and harness connector M82.



AKS00CC3

Intelligent Key Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

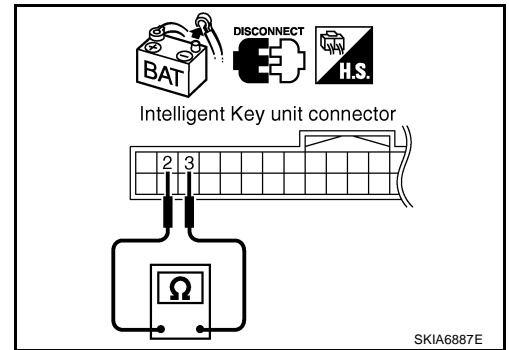
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector M34 terminals 2 (L) and 3 (R).

2 (L) - 3 (R) : Approx. 54 - 66Ω

OK or NG

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



Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

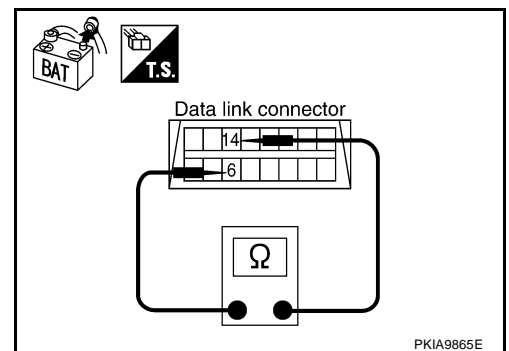
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
 NG >> Repair harness between data link connector and BCM.



BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

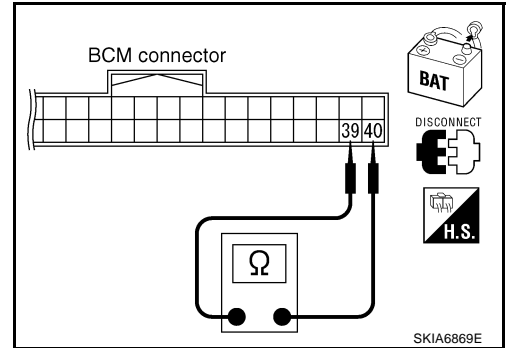
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and data link connector.



Steering Angle Sensor Circuit Inspection

AKS00CC6

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.

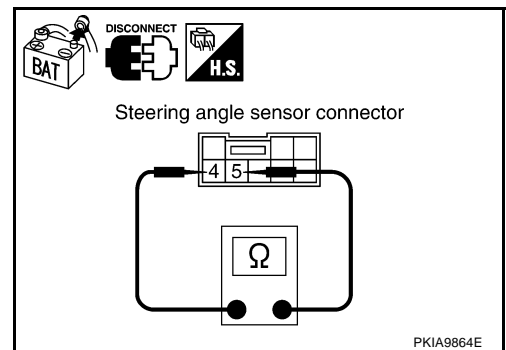
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



Unified Meter and A/C Amp. Circuit Inspection

AKS00CC8

1. CHECK CONNECTOR

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

OK or NG

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

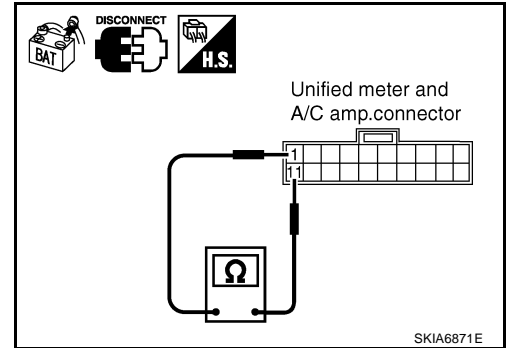
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



AKS00CC9

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.

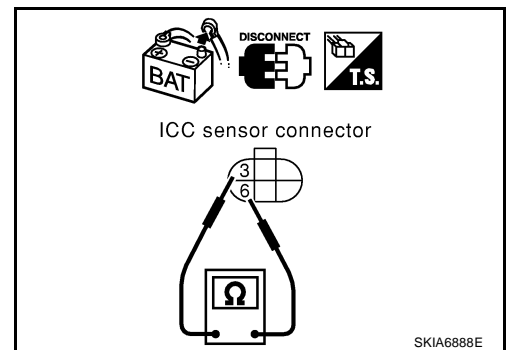
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC sensor connector.
2. Check resistance between ICC sensor harness connector E39 terminals 3 (L) and 6 (R).

3 (L) - 6 (R) : Approx. 54 - 66Ω

OK or NG

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



AKS00CCA

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.

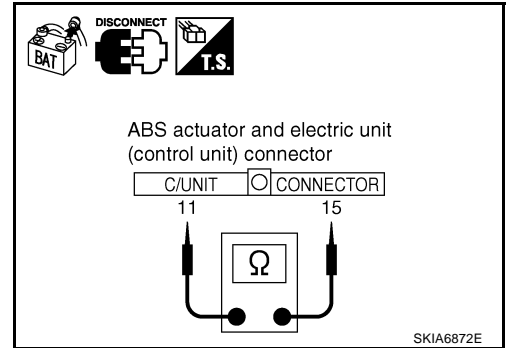
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

OK or NG

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



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 B151
 - Harness connector B8

OK or NG

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

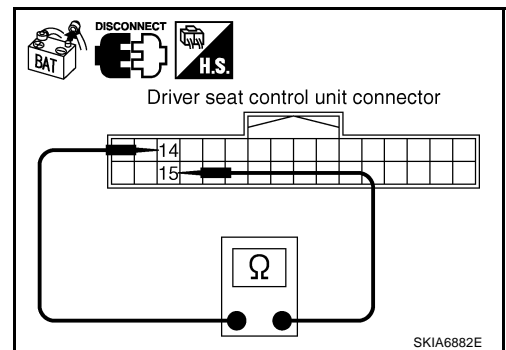
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit and harness connector B5.



IPDM E/R Circuit Inspection**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

OK or NG

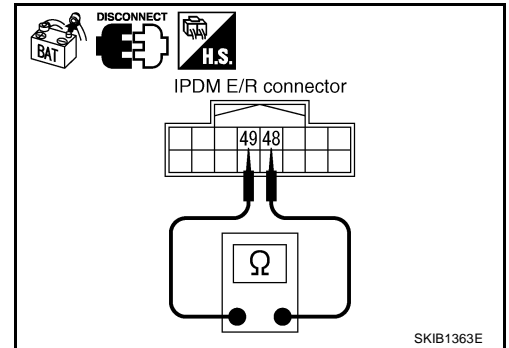
- OK >> GO TO 2.
 NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R)**: Approx. 108 - 132Ω****OK or NG**

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R and harness connector B8.

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CAN Communication Circuit Inspection

AKS00CCD

1. CHECK CONNECTOR

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

OK or NG

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

2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display control unit connector
 - AWD control unit connector
 - ICC unit connector
 - Intelligent Key unit connector
 - BCM connector
 - Steering angle sensor connector
 - Unified meter and A/C amp. connector
 - Harness connector M41
2. Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

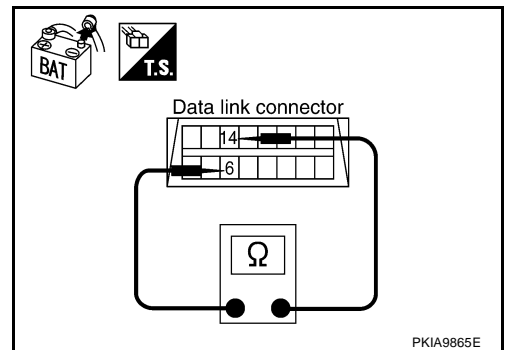
6 (L) - 14 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display control unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and ICC unit
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



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3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

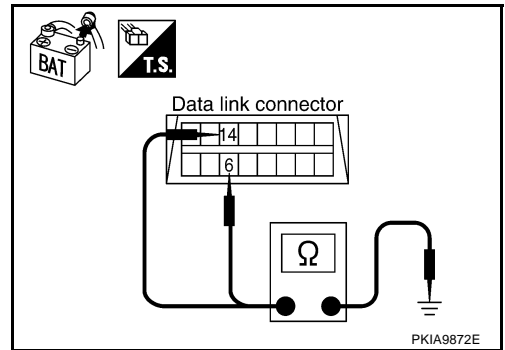
- 6 (L) - Ground : Continuity should not exist.**
14 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display control unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and ICC unit
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



4. CHECK HARNESS FOR SHORT CIRCUIT

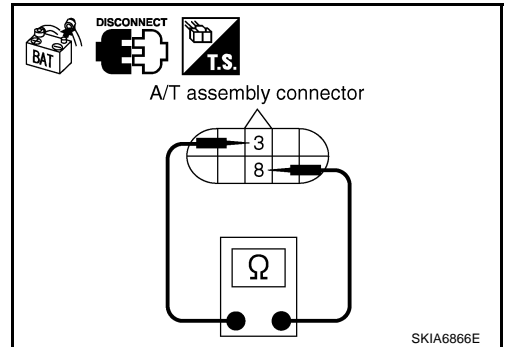
1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

- 3 (L) - 8 (R) : Continuity should not exist.**

OK or NG

OK >> GO TO 5.

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



5. CHECK HARNESS FOR SHORT CIRCUIT

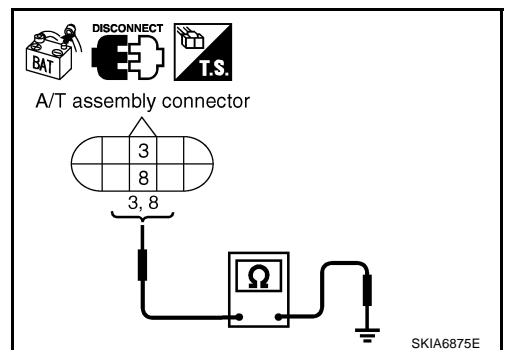
Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

- 3 (L) - Ground : Continuity should not exist.**
8 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 6.

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



6. CHECK HARNESS FOR SHORT CIRCUIT

- Disconnect following connectors.
 - ICC sensor connector
 - ABS actuator and electric unit (control unit) connector
 - Harness connector E205
- Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

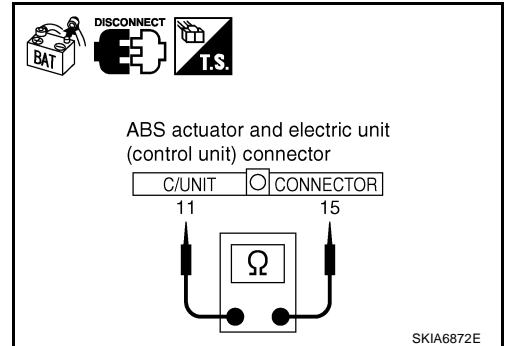
11 (L) - 15 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 7.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and ICC sensor
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

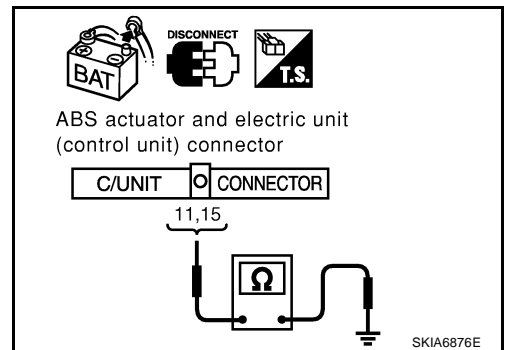
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 8.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and ICC sensor
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



8. CHECK HARNESS FOR SHORT CIRCUIT

- Disconnect harness connector B8.
- Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

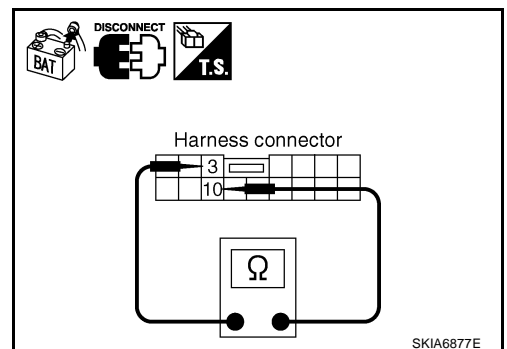
3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 9.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

3 (L) - Ground : Continuity should not exist.

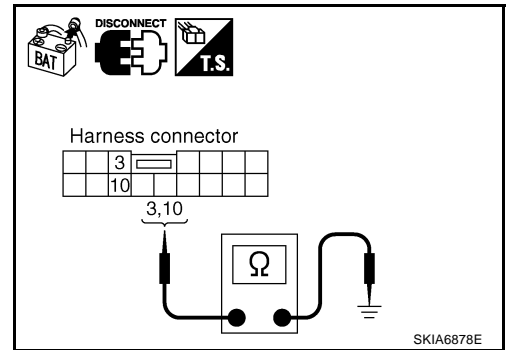
10 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



10. CHECK HARNESS FOR SHORT CIRCUIT

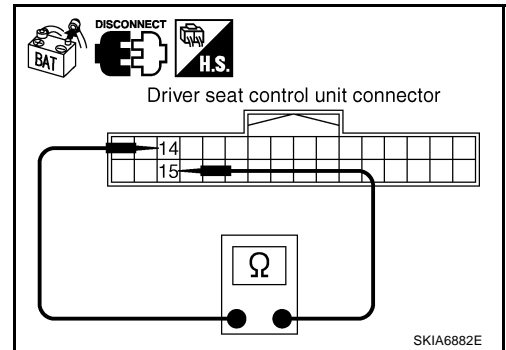
1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Continuity should not exist.

OK or NG

OK >> GO TO 11.

NG >> Repair harness between driver seat control unit and harness connector B151.



11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between driver seat control unit harness connector B152 terminals 14 (OR), 15 (SB) and ground.

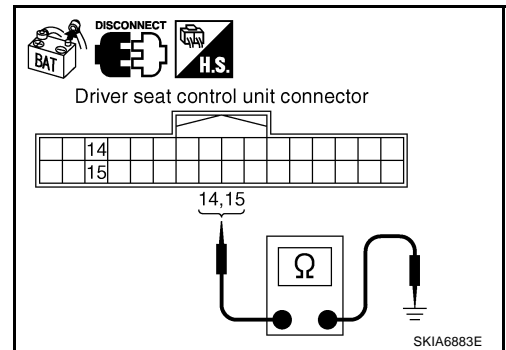
14 (OR) - Ground : Continuity should not exist.

15 (SB) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 12.

NG >> Repair harness between driver seat control unit and harness connector B151.



12. CHECK HARNESS FOR SHORT CIRCUIT

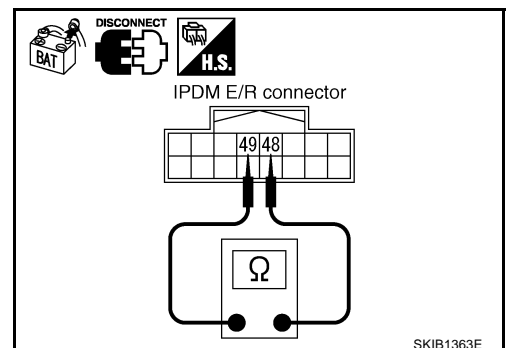
1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 13.

NG >> Repair harness between IPDM E/R and harness connector E205.



13. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

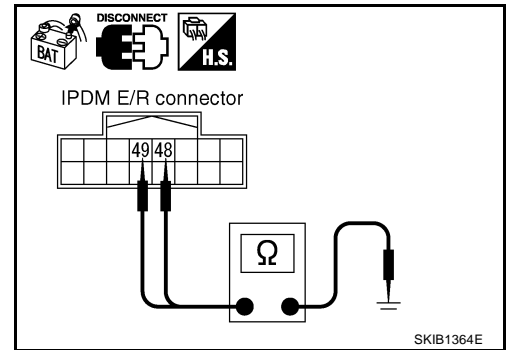
48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 14.

NG >> Repair harness between IPDM E/R and harness connector E205.



14. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω

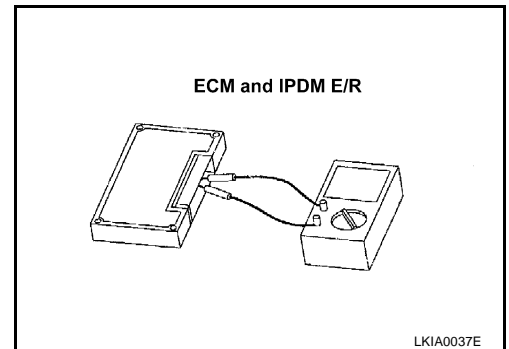
3. Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

OK or NG

OK >> GO TO 15.

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



15. 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 16.

NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

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16. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

Not reproduced>>Replace removed unit.

IPDM E/R Ignition Relay Circuit Inspection

AKS00CCE

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-12, "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START" .](#)

CAN SYSTEM (TYPE 8)

[CAN]

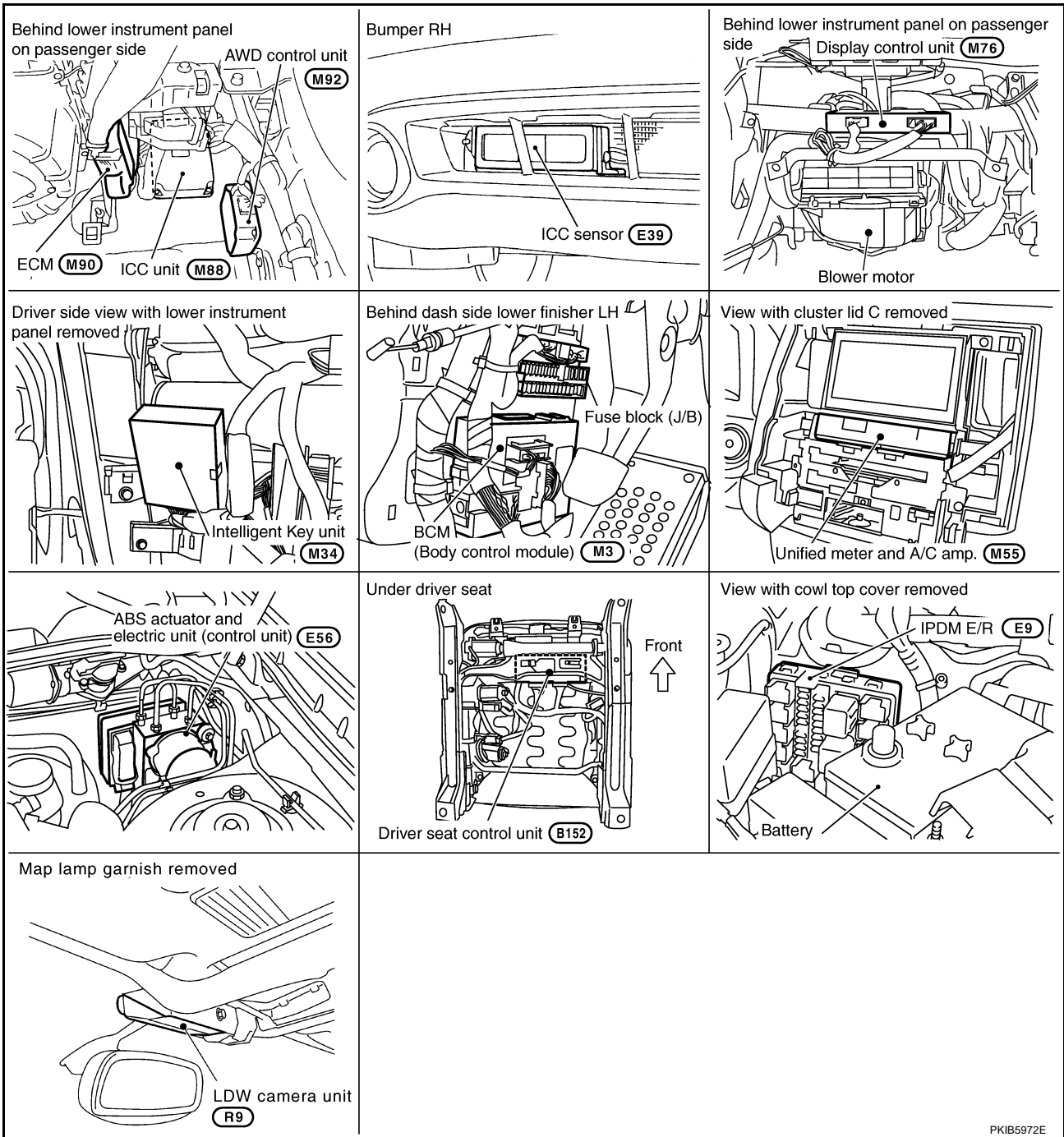
PFP:23710

AKS00CAU

CAN SYSTEM (TYPE 8)

Component Parts and Harness Connector Location

A
B
C
D
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I
J
LAN
L
M

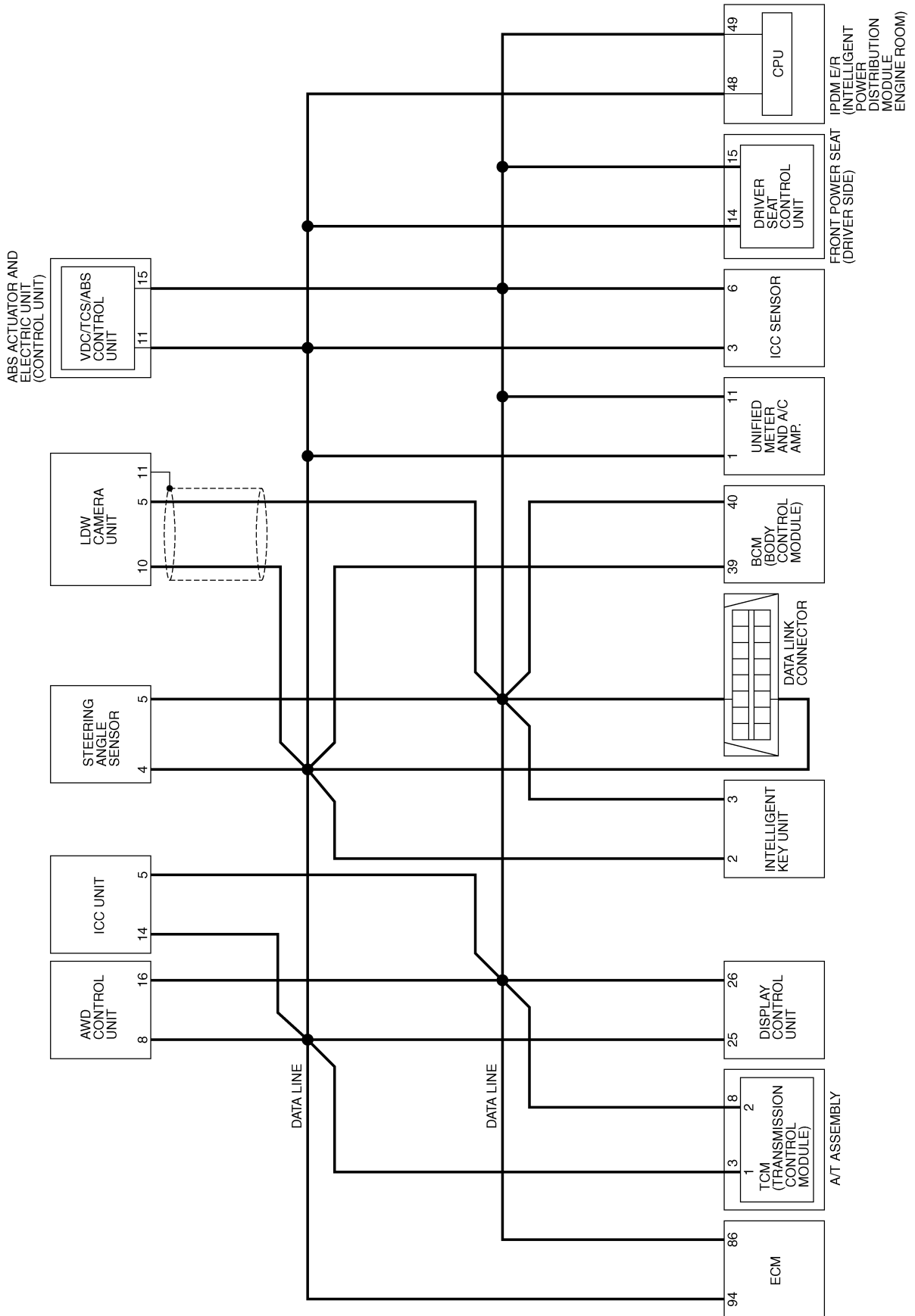


CAN SYSTEM (TYPE 8)

[CAN]

AKS00CAV

Schematic



TKWM2375E

CAN SYSTEM (TYPE 8)

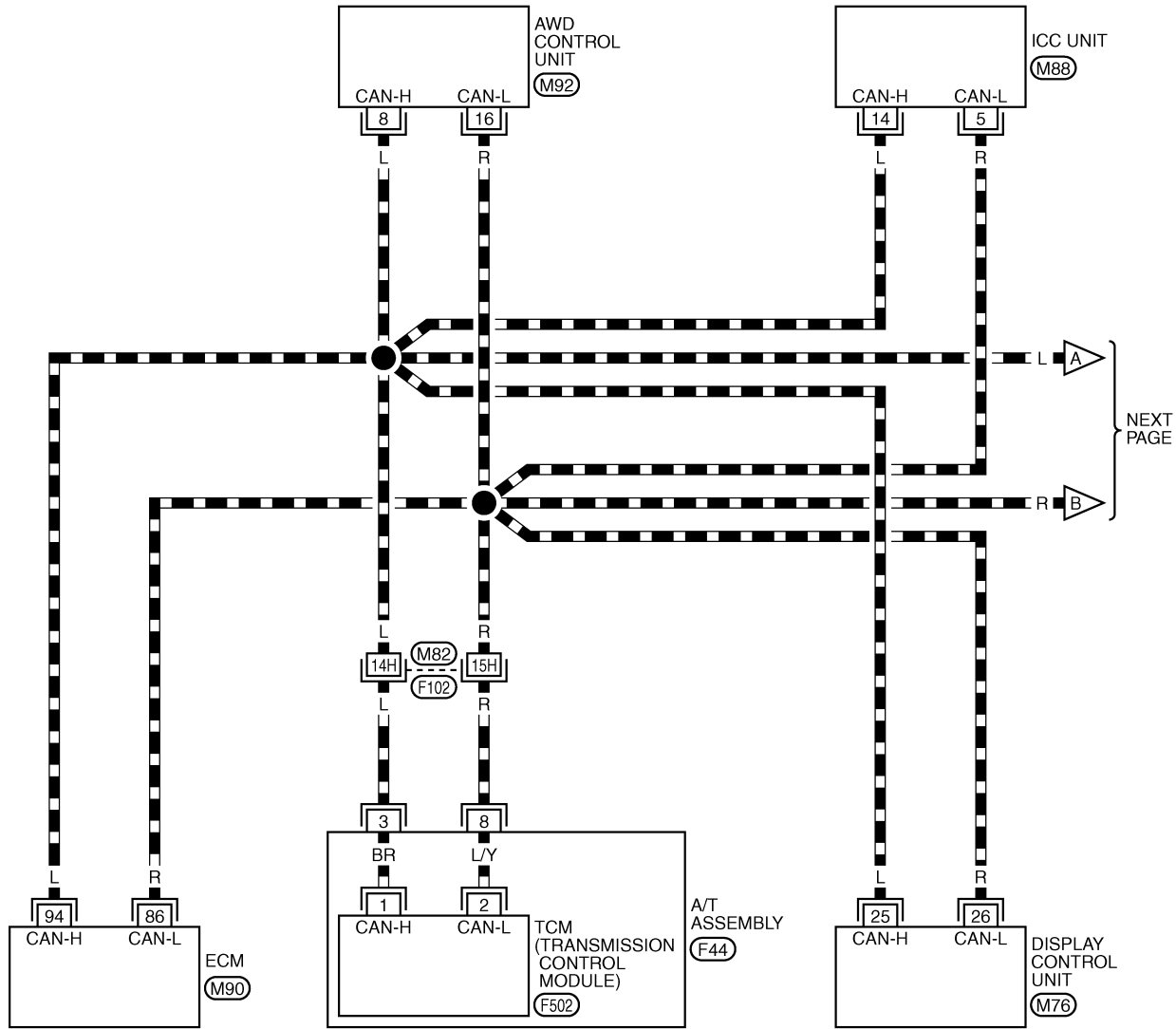
[CAN]

Wiring Diagram - CAN -

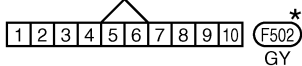
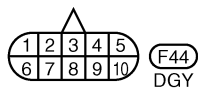
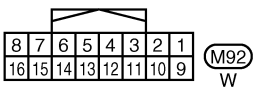
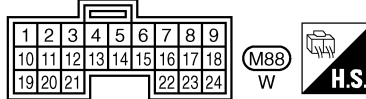
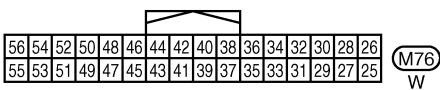
AKS00CAW

LAN-CAN-22

▬ : DATA LINE



A
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M



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

REFER TO THE FOLLOWING.

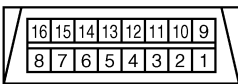
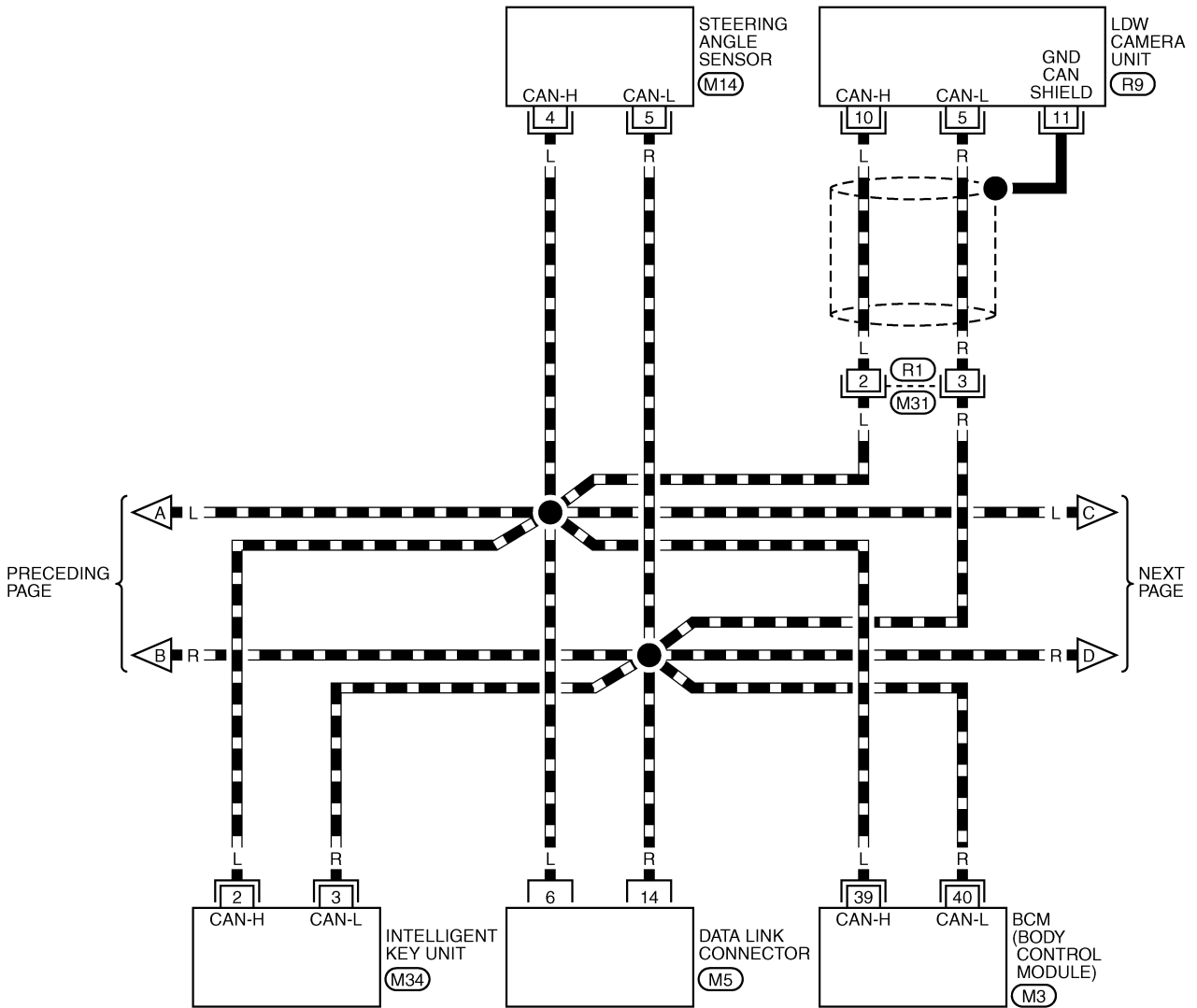
(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M90) -ELECTRICAL UNITS

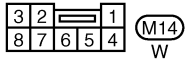
TKWM2376E

LAN-CAN-23

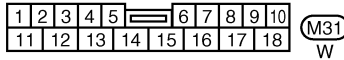
▬ : DATA LINE



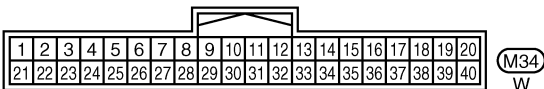
(M5)
W



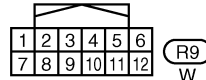
(M14)
W



(M31)
W



(M34)
W

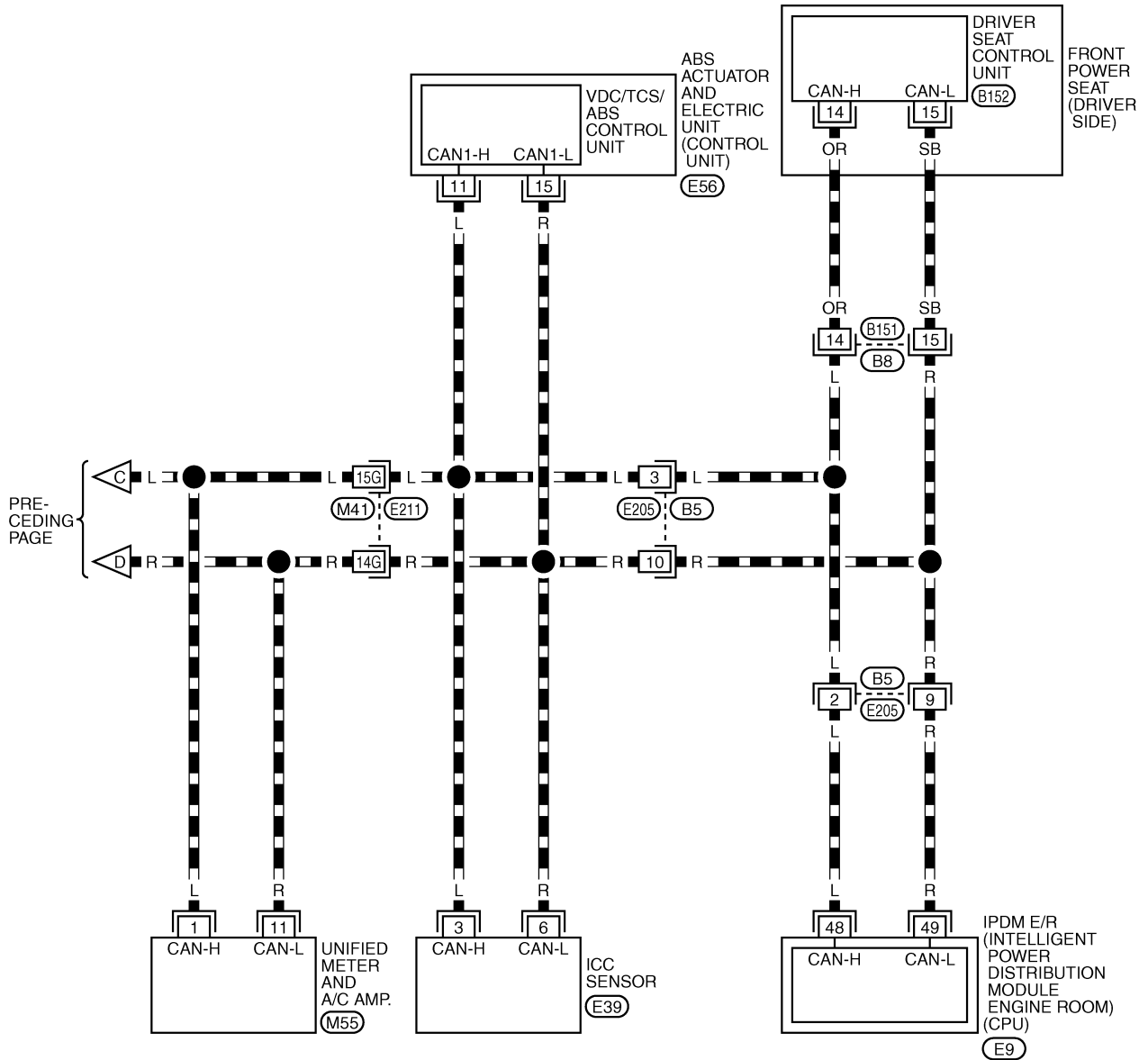


(R9)
W

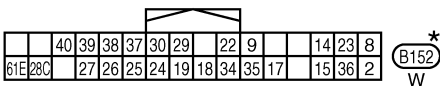
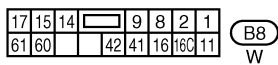
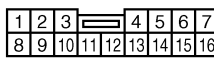
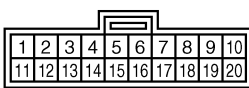
REFER TO THE FOLLOWING.
(M3) -ELECTRICAL UNITS

LAN-CAN-24

DATA LINE



A
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C
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I
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L
M



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

REFER TO THE FOLLOWING.

(E211) -SUPER MULTIPLE JUNCTION (SMJ)

(E56) -ELECTRICAL UNITS

CAN SYSTEM (TYPE 8)

[CAN]

AKS00CAX

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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	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

PKIB4171E

CAN SYSTEM (TYPE 8)

[CAN]

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the 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/SEC	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	—
CAN CIRC 4	—	CAN CIRC 9	—

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

PKIB4177E

A

B

C

D

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F

G

H

I

J

LAN

L

M

CAN SYSTEM (TYPE 8)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS

Attach copy of
ICC
SELF-DIAG RESULTS

Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
LDW
SELF-DIAG RESULTS

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

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

PKIB4172E

CAN SYSTEM (TYPE 8)

[CAN]

A
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J
LAN
L
M

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
A/T
CAN DIAG SUPPORT
MNTR

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

Attach copy of
ICC
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
LDW
CAN DIAG SUPPORT
MNTR

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

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIB4173E

CAN SYSTEM (TYPE 8)

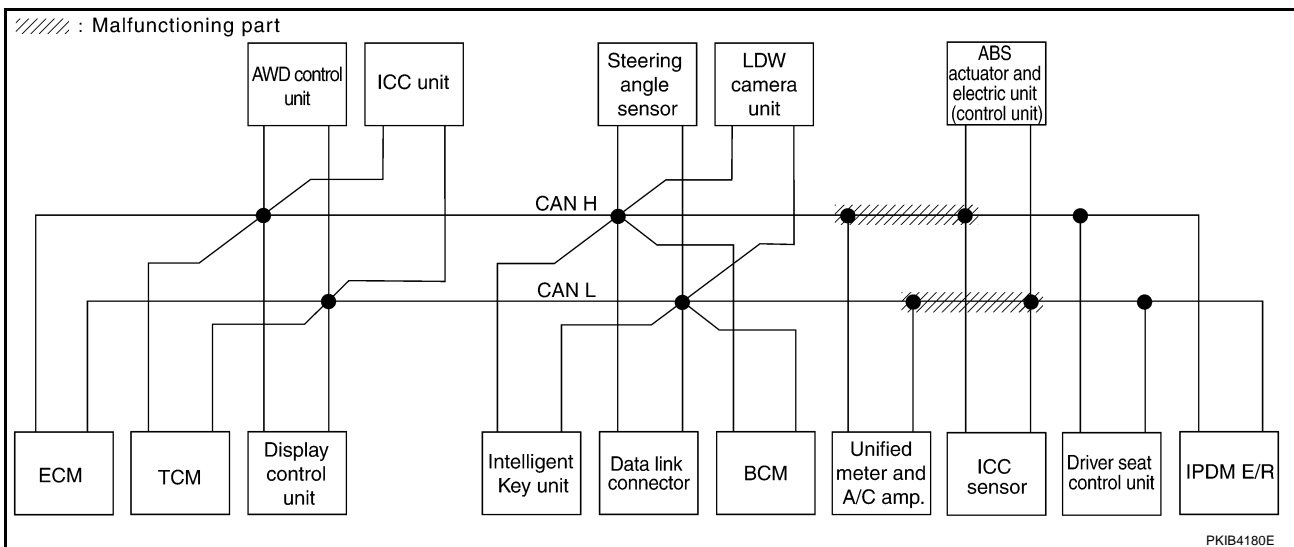
[CAN]

Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to [LAN-382, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR													SELF-DIAG RESULTS							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis																		
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R					
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	—	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—

PKIB4321E



PKIB4180E

CAN SYSTEM (TYPE 8)

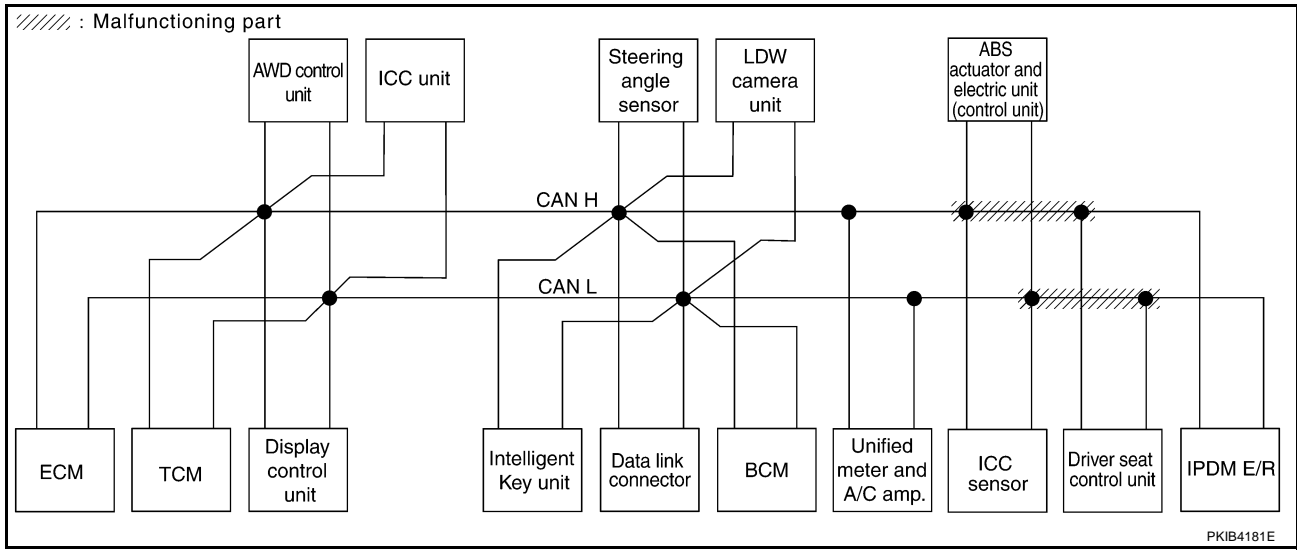
[CAN]

Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to [LAN-383, "Inspection Between ABS Actuator and Electric Unit \(Control Unit\) and Driver Seat Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	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)	—	
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	✓ indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	✓ indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIB4322E



PKIB4181E

CAN SYSTEM (TYPE 8)

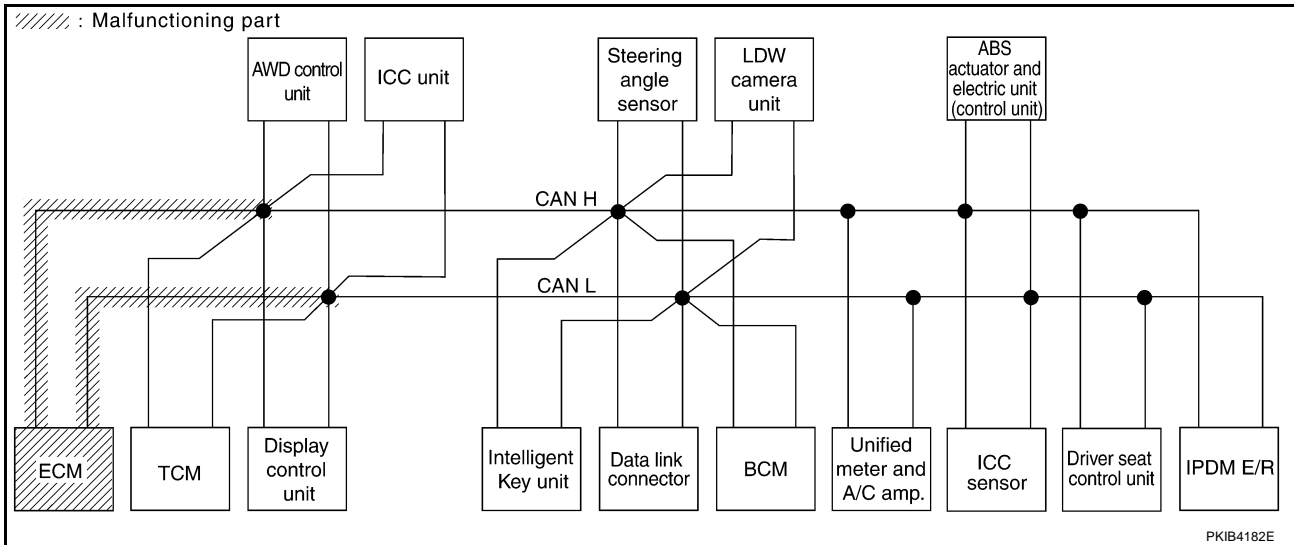
[CAN]

Case 5

Check ECM circuit. Refer to [LAN-384, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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) ✓	—
Display control unit	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ICC	—	NG	UNKWN	UNKWN ✓	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN ✓	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
LDW	No indication	—	—	UNKWN ✓	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN ✓	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN ✓	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIB4323E



PKIB4182E

CAN SYSTEM (TYPE 8)

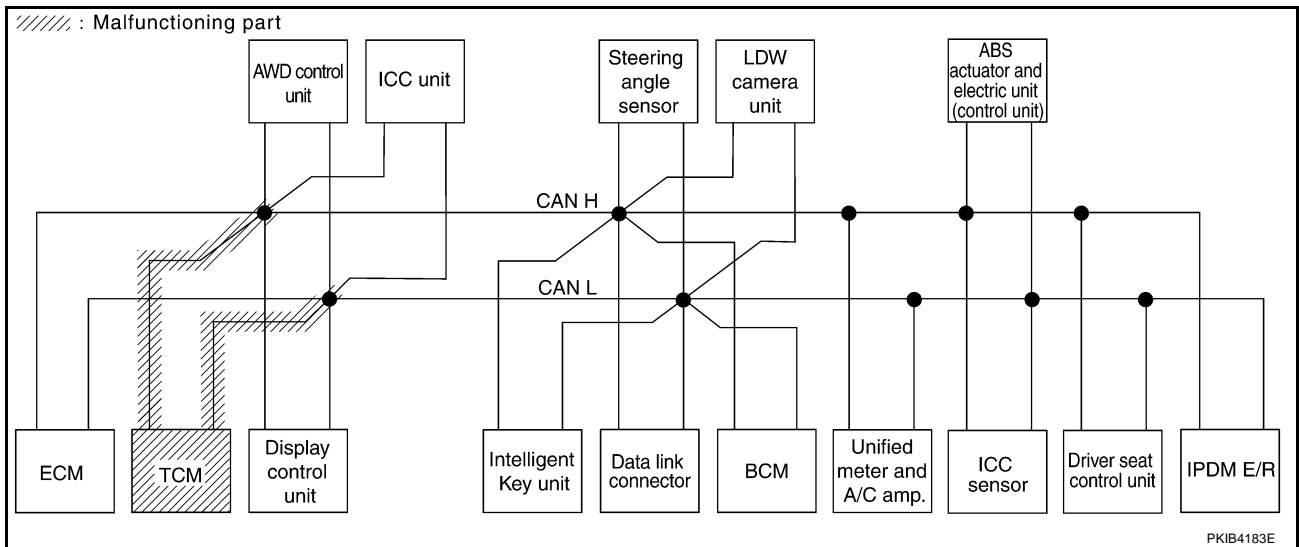
[CAN]

Case 6

Check TCM circuit. Refer to [LAN-384, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	UNKWN	—	UN KN WN ✓	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
A/T	—	NG	UNKWN	UN KN WN ✓	—	—	UN KN WN ✓	UN KN WN ✓	—	—	—	UN KN WN ✓	—	UN KN WN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UN KN WN ✓	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UN KN WN ✓	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UN KN WN ✓	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	UN KN WN ✓	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UN KN WN ✓	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4324E



PKIB4183E

CAN SYSTEM (TYPE 8)

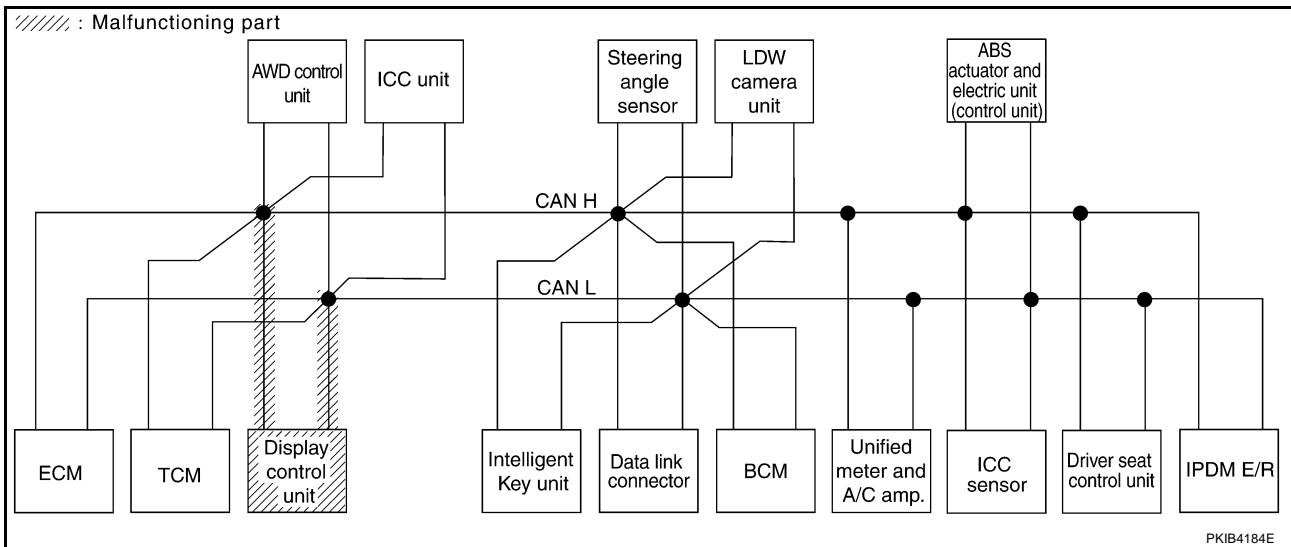
[CAN]

Case 7

Check display control unit circuit. Refer to [LAN-385, "Display Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—		
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	—		
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	—	—	—	—	UNKWN ✓	—	UNKWN ✓	—	—	UNKWN ✓	—	—		
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—		
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	—		
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—		
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—		
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—		
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—		
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—		
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—		
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—		

PKIB4325E



PKIB4184E

CAN SYSTEM (TYPE 8)

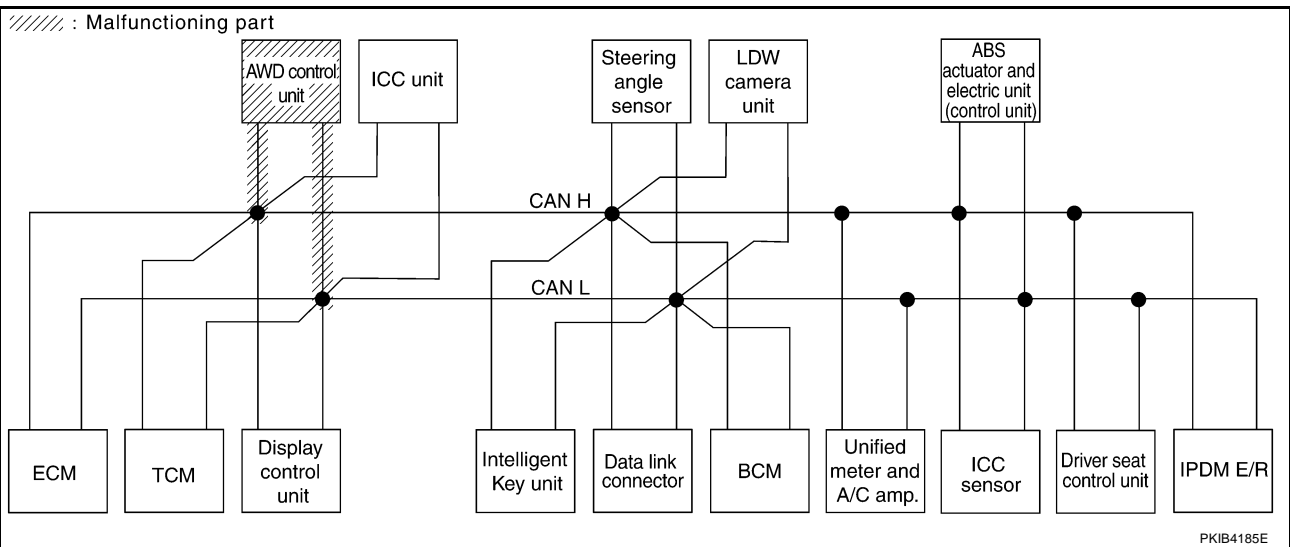
[CAN]

Case 8

Check AWD control unit circuit. Refer to [LAN-385, "AWD Control Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4326E



PKIB4185E

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CAN SYSTEM (TYPE 8)

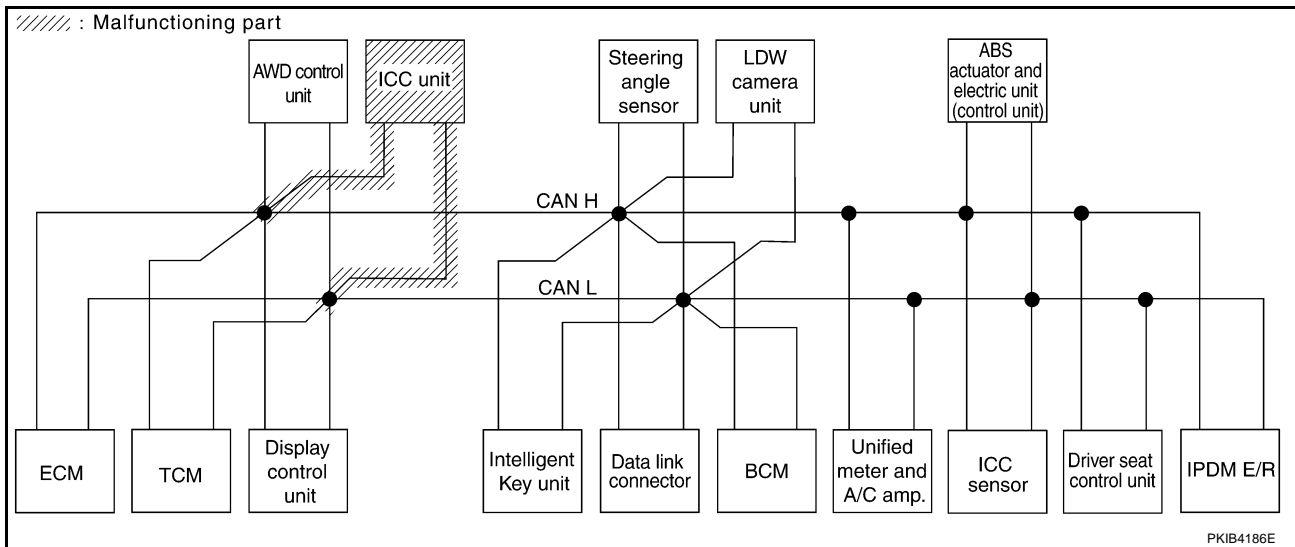
[CAN]

Case 9

Check ICC unit circuit. Refer to [LAN-386, "ICC Unit Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4327E



PKIB4186E

CAN SYSTEM (TYPE 8)

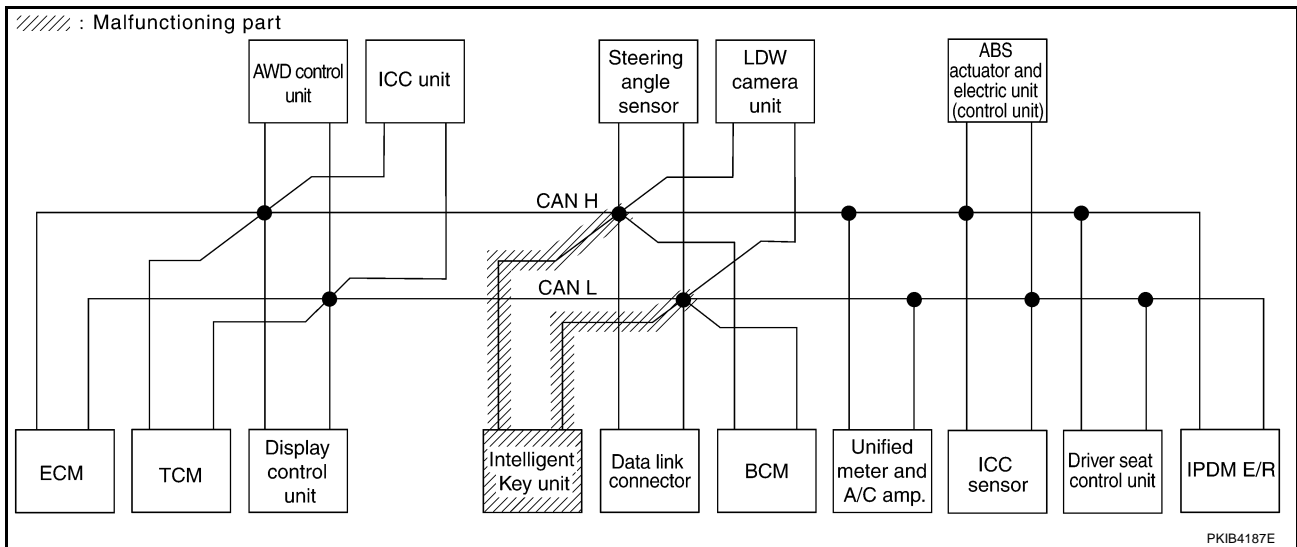
[CAN]

Case 10

Check Intelligent Key unit circuit. Refer to [LAN-386, "Intelligent Key Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	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)	—		
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—		
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
INTELLIGENT KEY	✓ indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	✓		
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	✓		
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—		
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		

PKIB4328E



PKIB4187E

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CAN SYSTEM (TYPE 8)

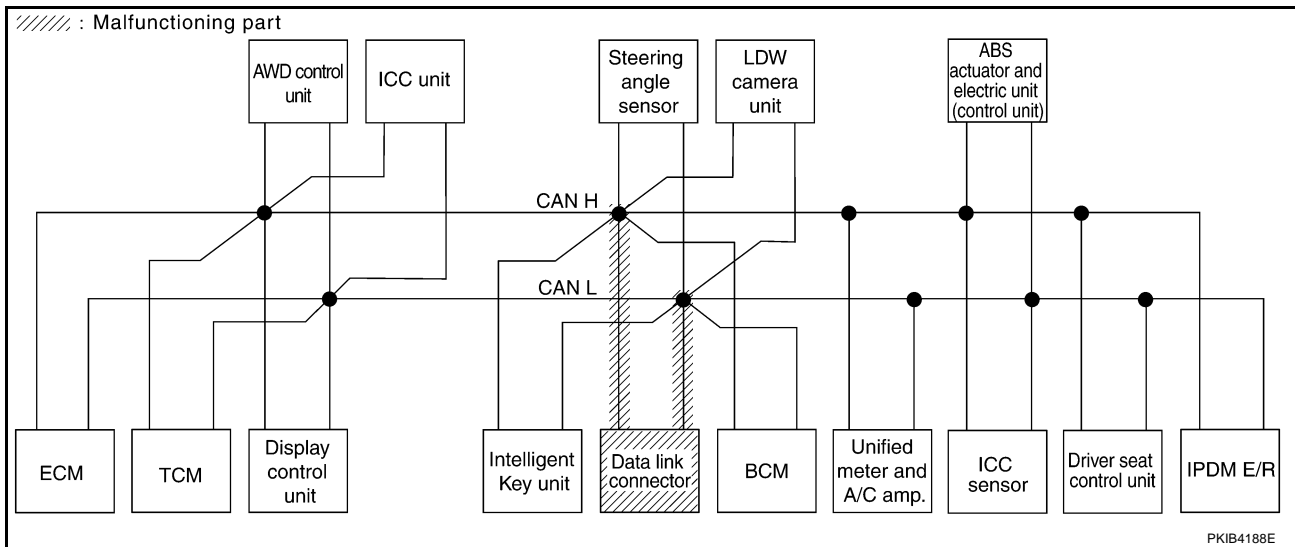
[CAN]

Case 11

Check data link connector circuit. Refer to [LAN-387, "Data Link Connector 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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	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)	—		
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—		
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
INTELLIGENT KEY		—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—		
BCM		NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
LDW		—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
METER A/C AMP		—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		
AUTO DRIVE POS.		NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—		
IPDM E/R		—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		

PKIB4329E



PKIB4188E

CAN SYSTEM (TYPE 8)

[CAN]

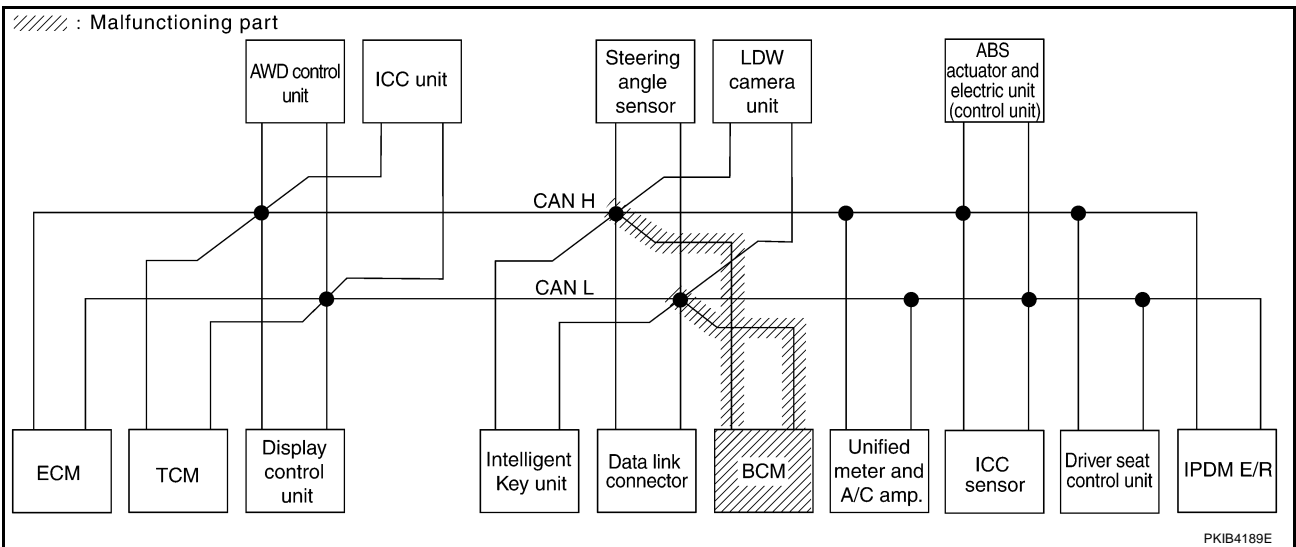
Case 12

Check BCM circuit. Refer to [LAN-387, "BCM Circuit Inspection"](#).

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SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4330E



PKIB4189E

CAN SYSTEM (TYPE 8)

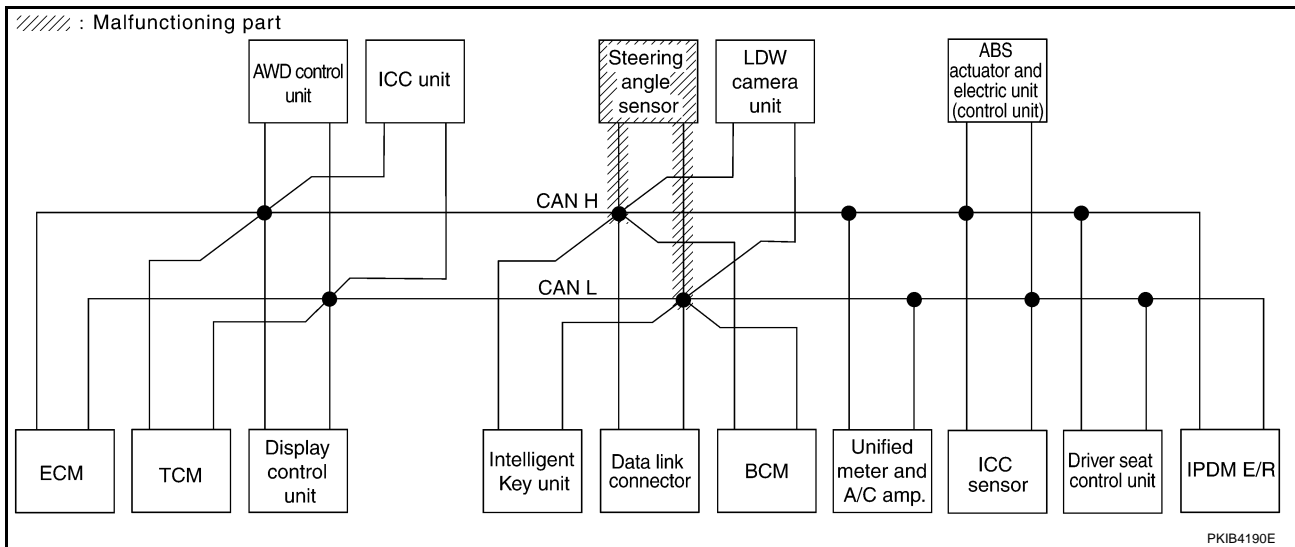
[CAN]

Case 13

Check steering angle sensor circuit. Refer to [LAN-388, "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4331E



PKIB4190E

CAN SYSTEM (TYPE 8)

[CAN]

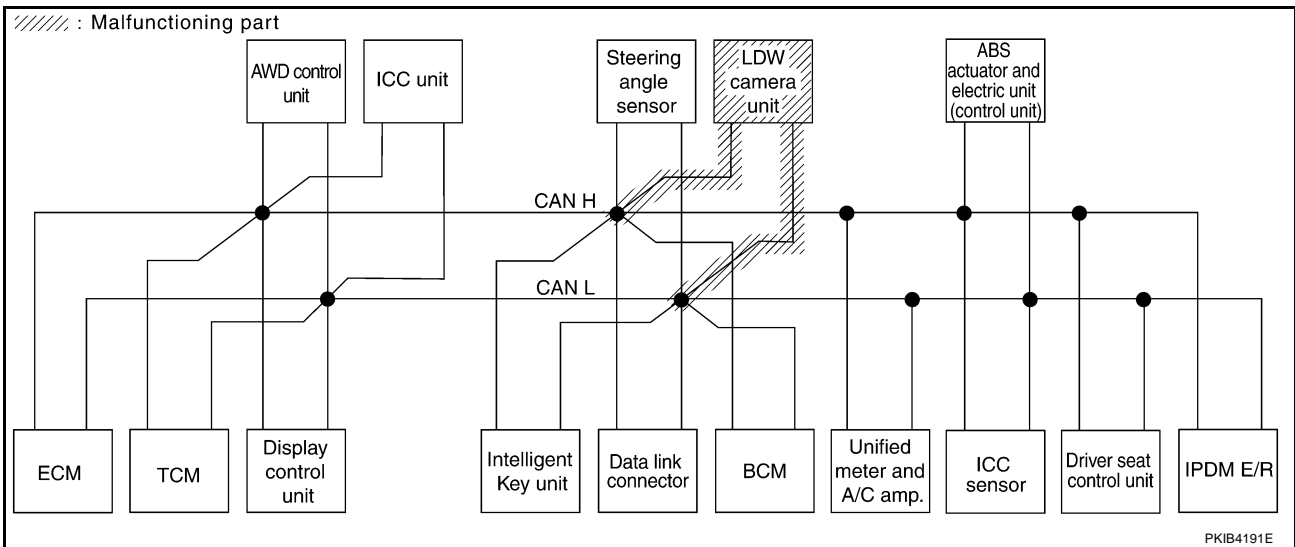
Case 14

Check LDW camera unit circuit. Refer to [LAN-388, "LDW Camera Unit Circuit Inspection"](#) .

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SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4332E



PKIB4191E

CAN SYSTEM (TYPE 8)

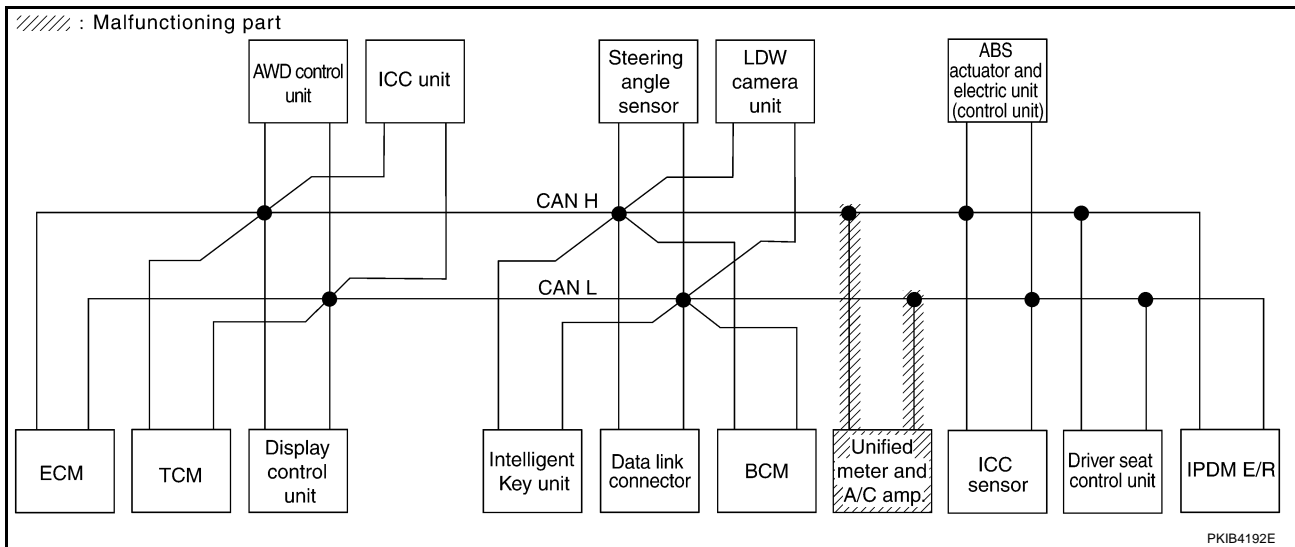
[CAN]

Case 15

Check unified meter and A/C amp. circuit. Refer to [LAN-389, "Unified Meter and A/C Amp. Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	✓	✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	✓	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	✓	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	UNKWN	—	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	✓	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	✓	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	UNKWN	—	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	UNKWN	✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	UNKWN	—	—

PKIB4333E



PKIB4192E

CAN SYSTEM (TYPE 8)

[CAN]

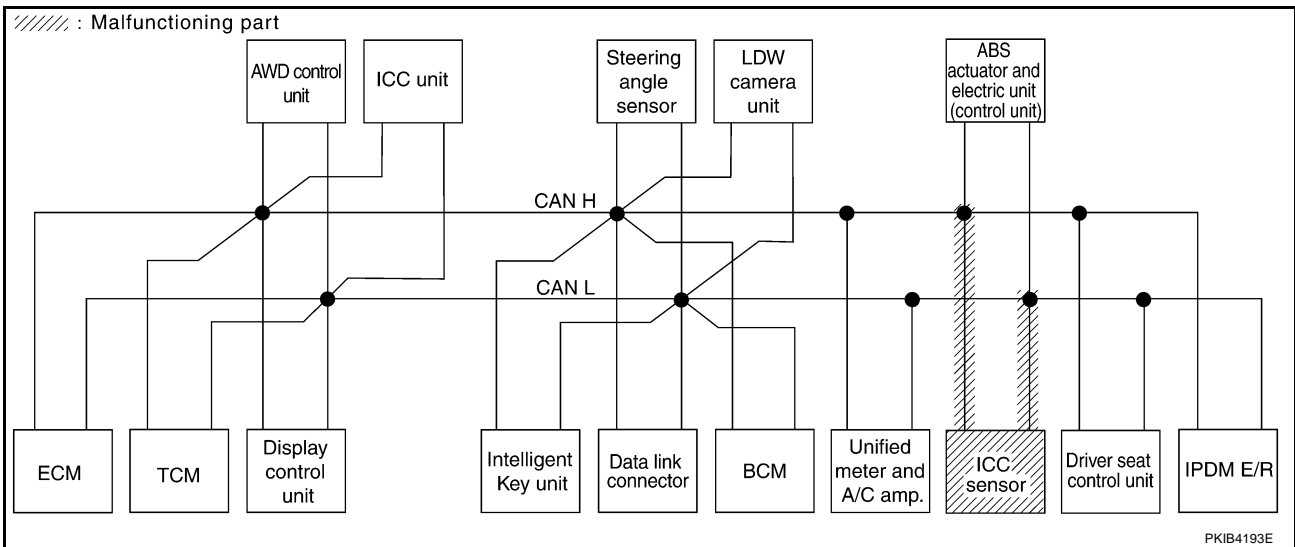
Case 16

Check ICC sensor circuit. Refer to [LAN-390, "ICC Sensor Circuit Inspection"](#) .

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SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	✓	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4334E



PKIB4193E

CAN SYSTEM (TYPE 8)

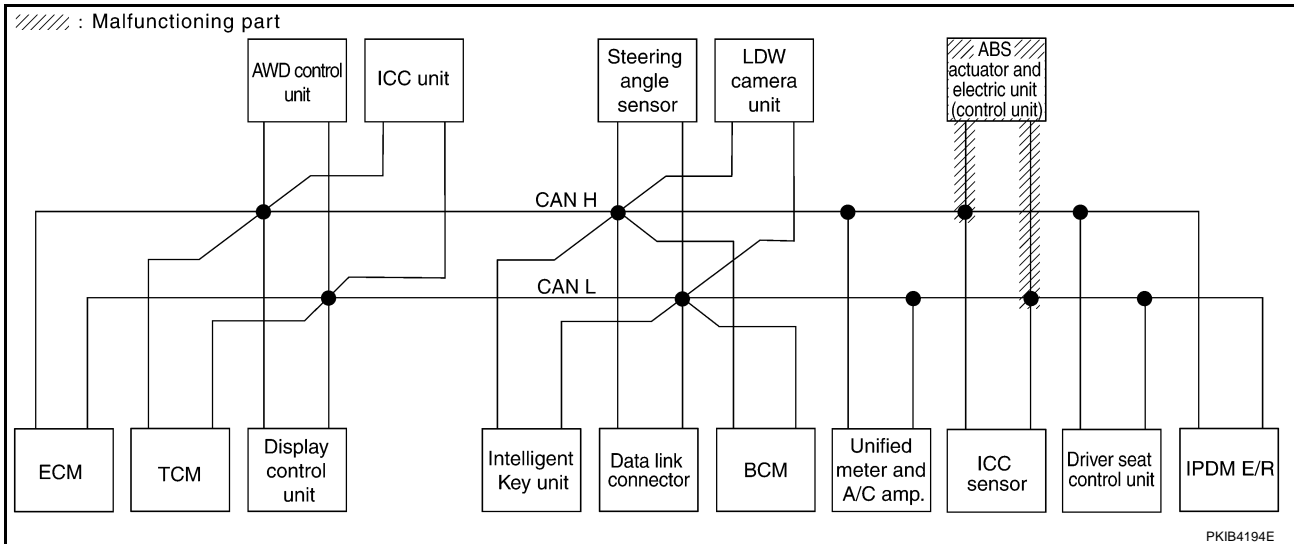
[CAN]

Case 17

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-390, "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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS			IPDM E/R	
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	✓	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4335E



CAN SYSTEM (TYPE 8)

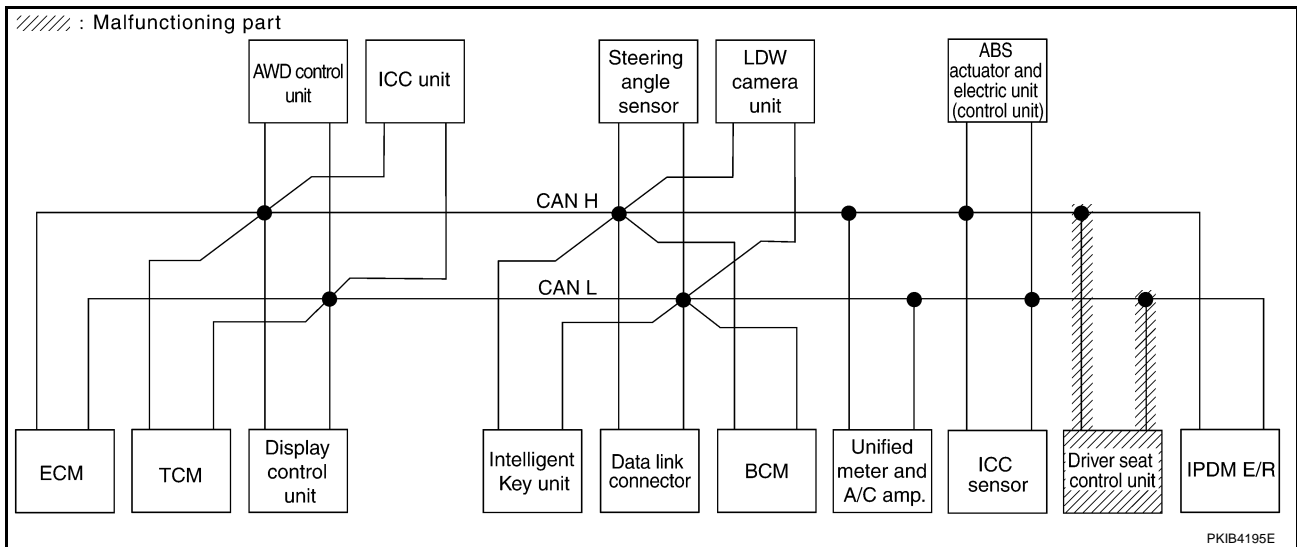
[CAN]

Case 18

Check driver seat control unit circuit. Refer to [LAN-391, "Driver Seat Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis													
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4336E



PKIB4195E

CAN SYSTEM (TYPE 8)

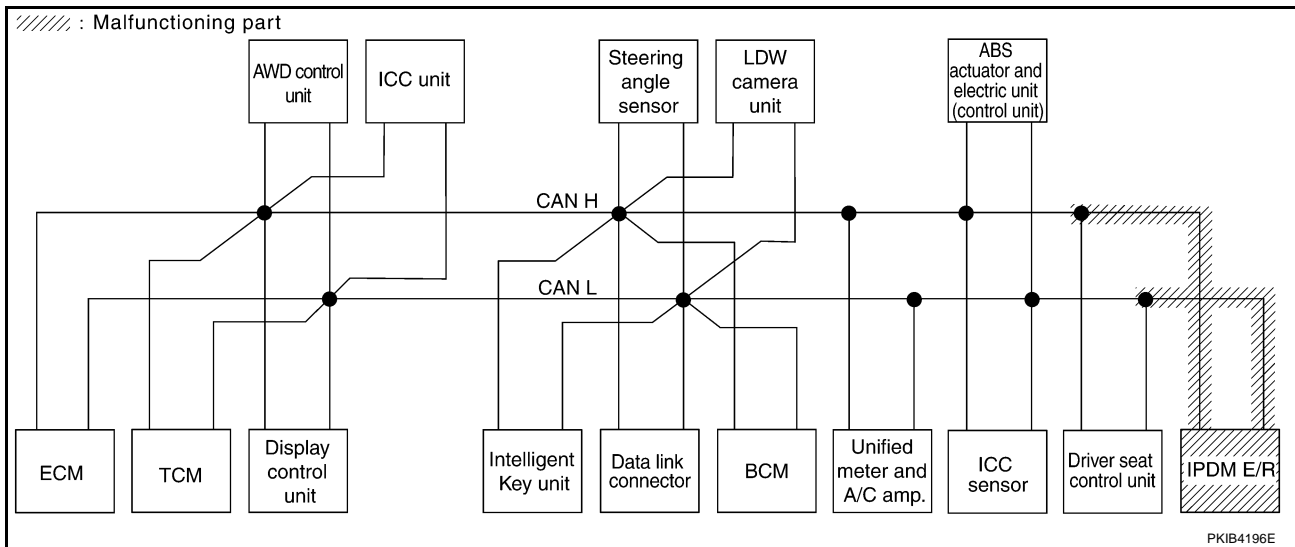
[CAN]

Case 19

Check IPDM E/R circuit. Refer to [LAN-391, "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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS				
ENGINE	—	NG	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)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	✓	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4337E



PKIB4196E

CAN SYSTEM (TYPE 8)

[CAN]

Case 20

Check CAN communication circuit. Refer to [LAN-392, "CAN Communication 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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	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) ✓	—	
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	—	—	—	—	—	UNKWN ✓	—	UNKWN ✓	—	—	UNKWN ✓	—	—	
ALL MODE AWD/4WD	—	NG	UNKWN ✓	—	—	—	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—	
ICC	—	NG	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	—	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—	
INTELLIGENT KEY	↓ indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—	
BCM	↓ indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—	
LDW	↓ indication	—	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—	
METER A/C AMP	↓ indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—	
ABS	—	✓	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	—	—	—	UNKWN ✓	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—	
AUTO DRIVE POS.	↓ indication	NG	UNKWN	—	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—	
IPDM E/R	↓ indication	—	UNKWN	UNKWN	—	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—	

PKIB4338E

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LAN

CAN SYSTEM (TYPE 8)

[CAN]

Case 21

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-399, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR														SELF-DIAG RESULTS			
		Initial diagnosis	Transmit diagnosis	Receive diagnosis														CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
				ECM	TCM	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	NG	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)	—		
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—		
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—		
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—		
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—		
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		

PKIB4339E

Case 22

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-399, "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	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ICC	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	No indication	—	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIB4340E

Inspection Between TCM and Data Link Connector Circuit

AKS00CAY

1. CHECK HARNESS FOR OPEN CIRCUIT

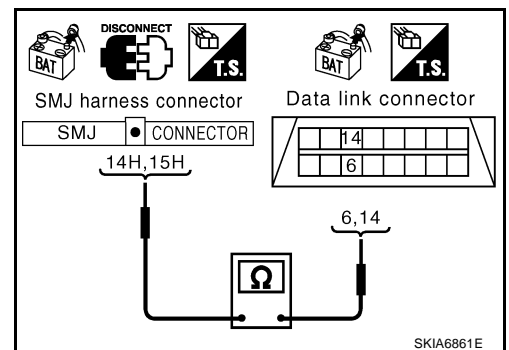
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Repair harness.



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Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

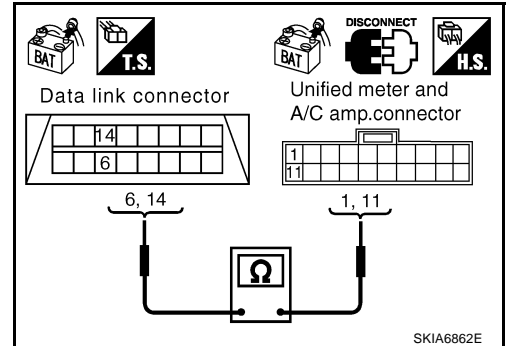
1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.
14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



SKIA6862E

Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
 - Harness connector M41
 - Harness connector E211

OK or NG

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

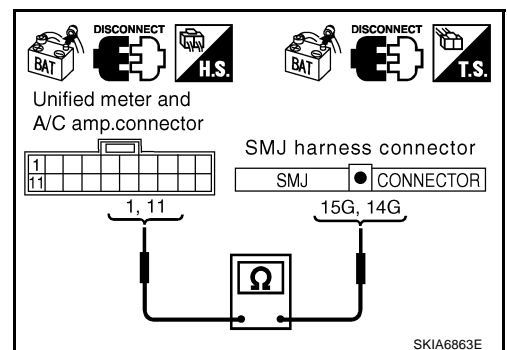
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.
11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



SKIA6863E

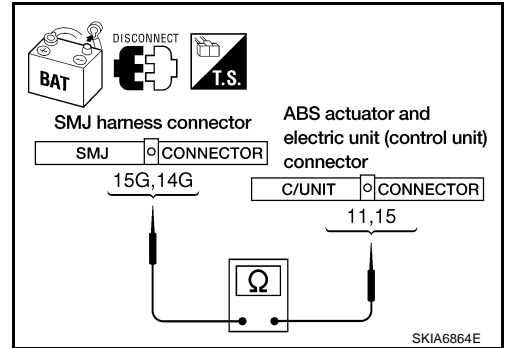
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.
14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
 NG >> Repair harness.



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

AKS00CB0

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 E205
 - Harness connector B5

OK or NG

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

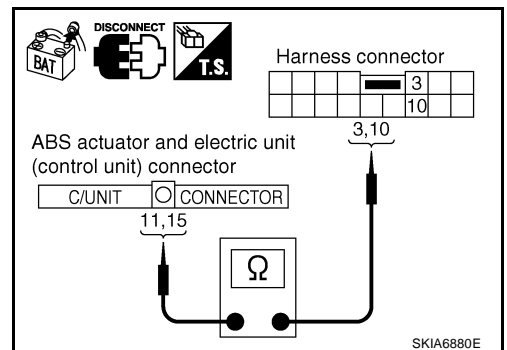
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and harness connector E205 terminals 3 (L), 10 (R).

11 (L) - 3 (L) : Continuity should exist.
15 (R) - 10 (R) : Continuity should exist.

OK or NG

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



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3. CHECK HARNESS FOR OPEN CIRCUIT

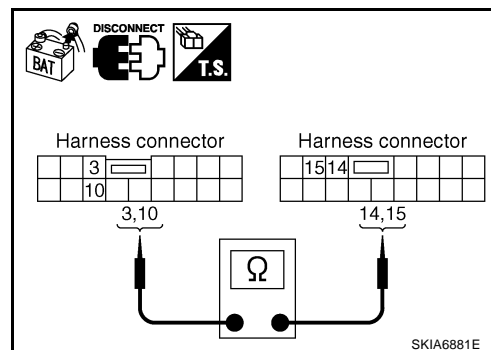
1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L), 10 (R) and harness connector B8 terminals 14 (L), 15 (R).

3 (L) - 14 (L) : Continuity should exist.

10 (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

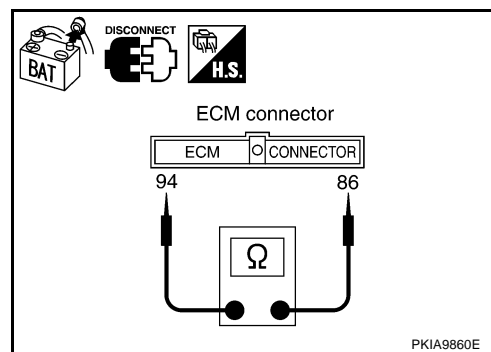
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and harness connector M82.



TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

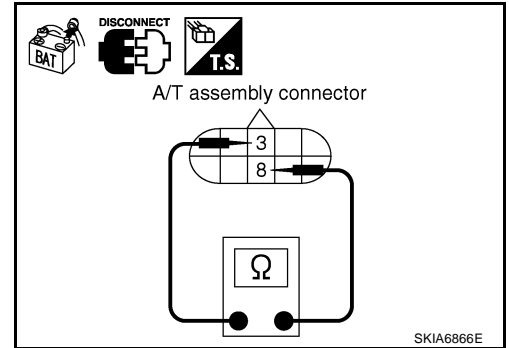
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



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.

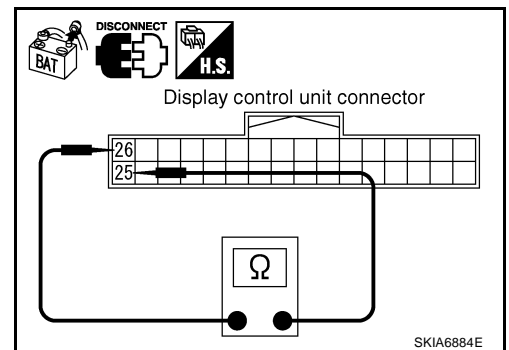
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display control unit connector.
2. Check resistance between display control unit harness connector M76 terminals 25 (L) and 26 (R).

25 (L) - 26 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit and harness connector M82.



AWD 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 AWD control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

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

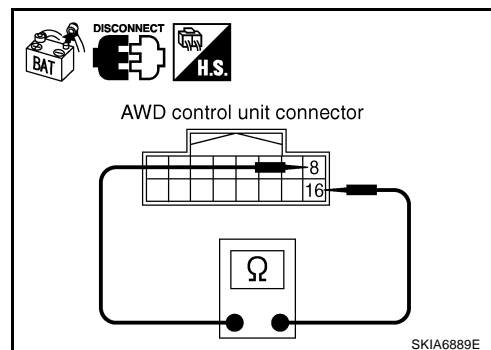
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector M92 terminals 8 (L) and 16 (R).

8 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace AWD control unit.
 NG >> Repair harness between AWD control unit and harness connector M82.



AKS00CB5

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.

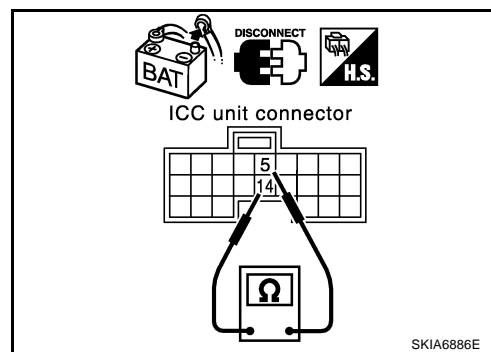
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC unit connector.
2. Check resistance between ICC unit harness connector M88 terminals 14 (L) and 5 (R).

14 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ICC unit.
 NG >> Repair harness between ICC unit and harness connector M82.



AKS00CB6

Intelligent Key Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

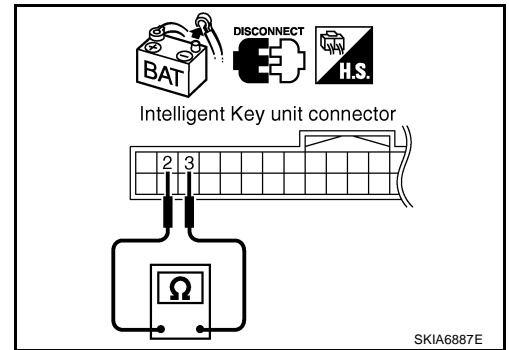
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check resistance between Intelligent Key unit harness connector M34 terminals 2 (L) and 3 (R).

2 (L) - 3 (R) : Approx. 54 - 66Ω

OK or NG

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



Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

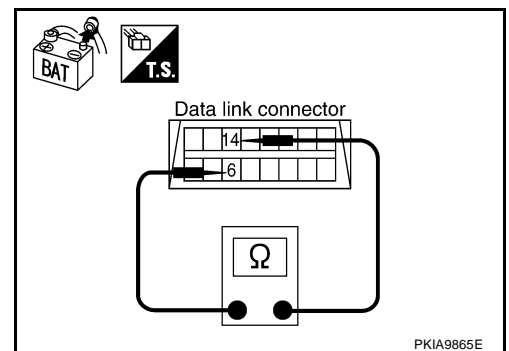
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
 NG >> Repair harness between data link connector and BCM.



BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

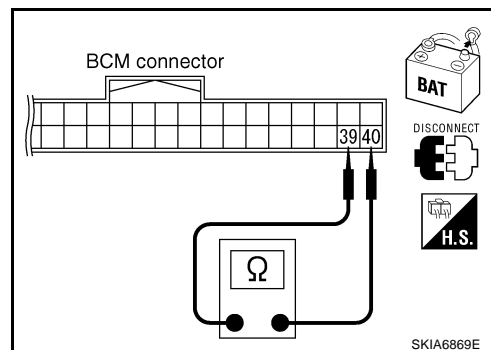
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and data link connector.



Steering Angle Sensor Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

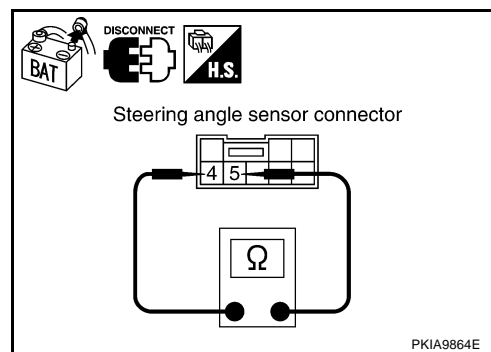
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



LDW Camera 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 (unit side and harness side).
 - LDW camera unit connector
 - Harness connector R1
 - Harness connector M31

OK or NG

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

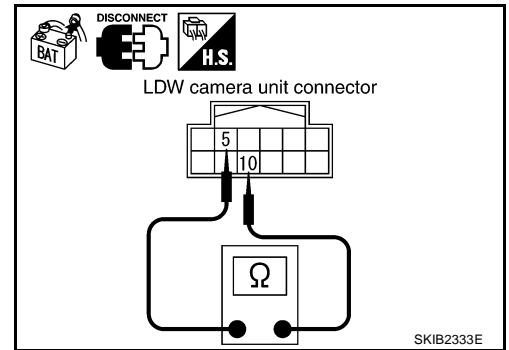
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check resistance between LDW camera unit harness connector R9 terminals 10 (L) and 5 (R).

10 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace LDW camera unit.
NG >> GO TO 3.



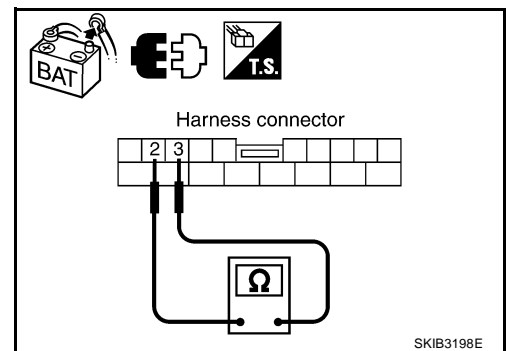
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector R1.
2. Check resistance between harness connector M31 terminals 2 (L) and 3 (R).

2 (L) - 3 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
NG >> Replace harness between LDW camera unit and harness connector R1.



Unified Meter and A/C Amp. Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

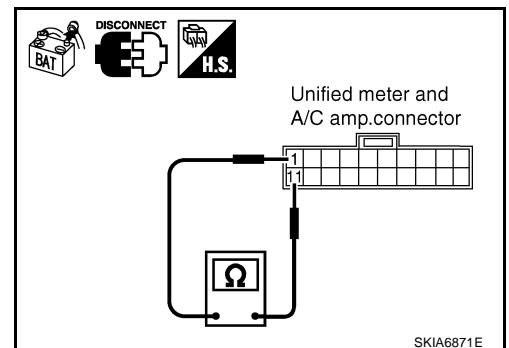
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



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.

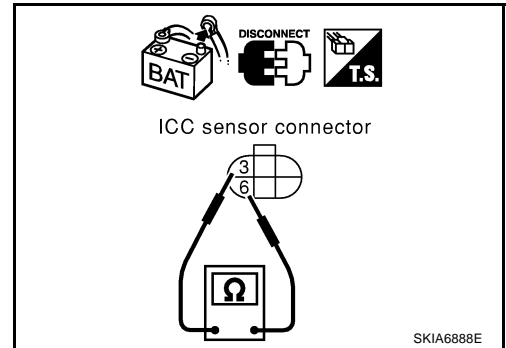
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ICC sensor connector.
2. Check resistance between ICC sensor harness connector E39 terminals 3 (L) and 6 (R).

3 (L) - 6 (R) : Approx. 54 - 66Ω

OK or NG

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



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.

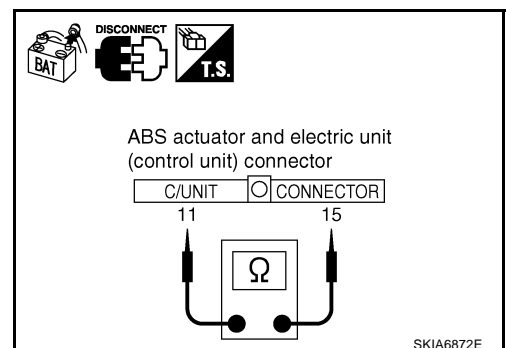
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

OK or NG

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



Driver Seat Control Unit Circuit Inspection

AKS00C8D

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 B151
 - Harness connector B8

OK or NG

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

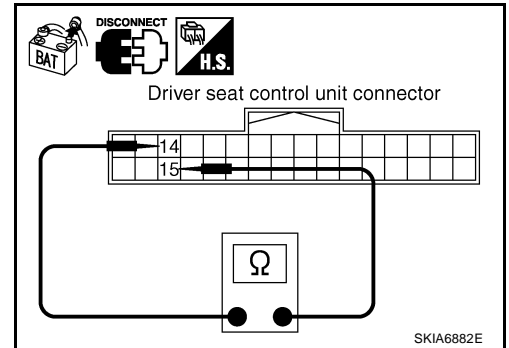
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check resistance between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit and harness connector B5.



AKS00C8E

IPDM E/R Circuit Inspection**1. CHECK CONNECTOR**

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

OK or NG

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

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2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

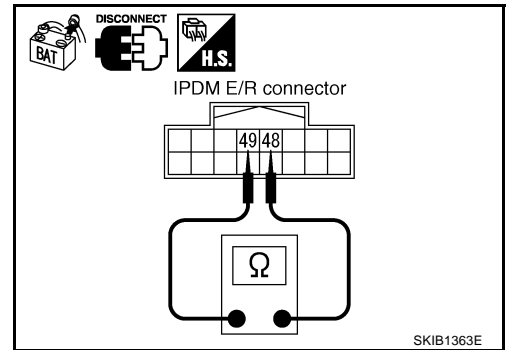
48 (L) - 49 (R)

: Approx. 108 - 132Ω

OK or NG

OK >> Replace IPDM E/R.

NG >> Repair harness between IPDM E/R and harness connector B8.



CAN Communication Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display control unit connector
 - AWD control unit connector
 - ICC unit connector
 - Intelligent Key unit connector
 - BCM connector
 - Steering angle sensor connector
 - Harness connector M31
 - Unified meter and A/C amp. connector
 - Harness connector M41
2. Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

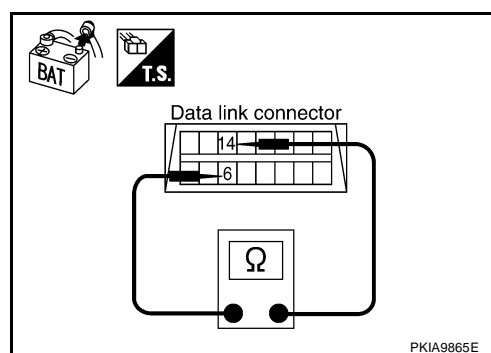
6 (L) - 14 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display control unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and ICC unit
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and harness connector M31
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

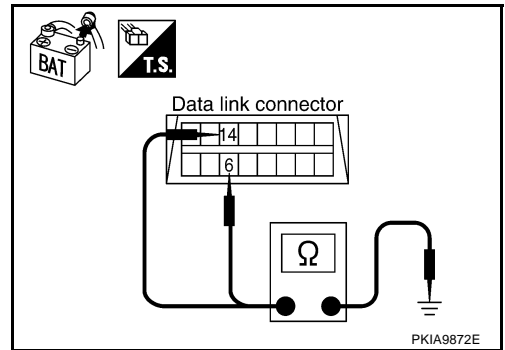
- 6 (L) - Ground : Continuity should not exist.**
- 14 (R) - Ground : Continuity should not exist.**

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display control unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and ICC unit
- Harness between data link connector and Intelligent Key unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and harness connector M31
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



4. CHECK HARNESS FOR SHORT CIRCUIT

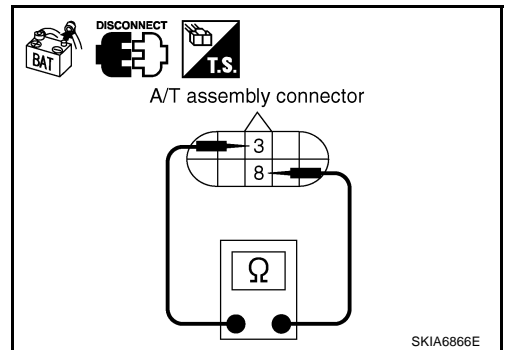
1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

- 3 (L) - 8 (R) : Continuity should not exist.**

OK or NG

OK >> GO TO 5.

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



5. CHECK HARNESS FOR SHORT CIRCUIT

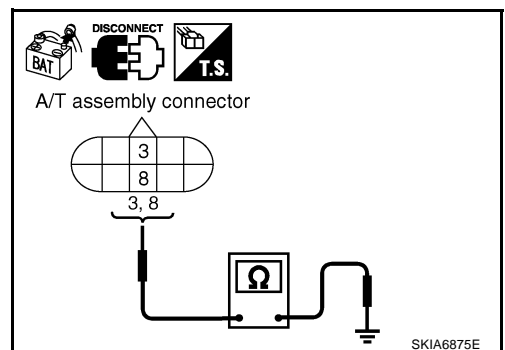
Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

- 3 (L) - Ground : Continuity should not exist.**
- 8 (R) - Ground : Continuity should not exist.**

OK or NG

OK >> GO TO 6.

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



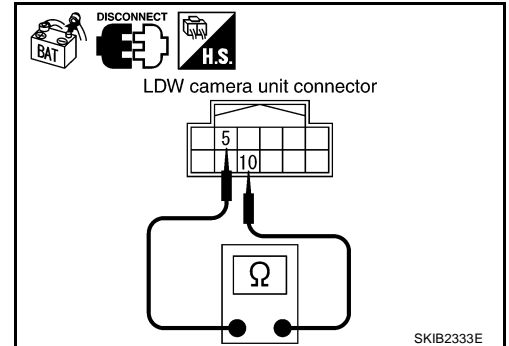
6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect LDW camera unit connector.
2. Check continuity between LDW camera unit harness connector R9 terminals 10 (L) and 5 (R).

10 (L) - 5 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 7.
 NG >> Replace harness between LDW camera unit and harness connector R1.



7. CHECK HARNESS FOR SHORT CIRCUIT

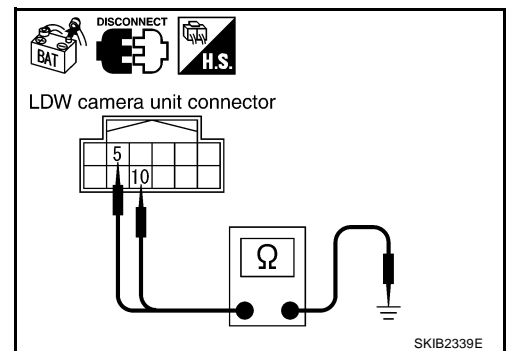
Check continuity between LDW camera unit harness connector R9 terminals 10 (L), 5 (R) and ground.

10 (L) - Ground : Continuity should not exist.

5 (R) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 8.
 NG >> Replace harness between LDW and harness connector R1.



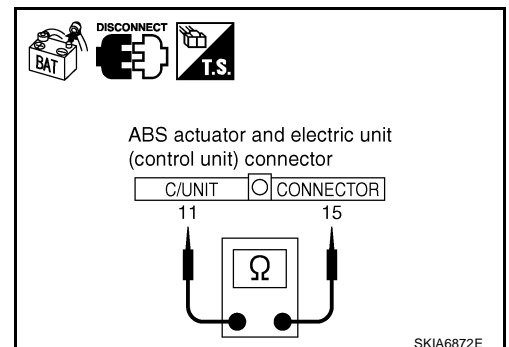
8. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ICC sensor connector
 - ABS actuator and electric unit (control unit) connector
 - Harness connector E205
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 9.
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ABS actuator and electric unit (control unit) and harness connector E211
 - Harness between ABS actuator and electric unit (control unit) and ICC sensor
 - Harness between ABS actuator and electric unit (control unit) and harness connector E205



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9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

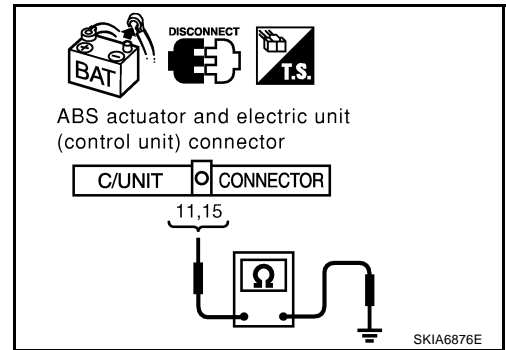
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and ICC sensor
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect harness connector B8.
2. Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

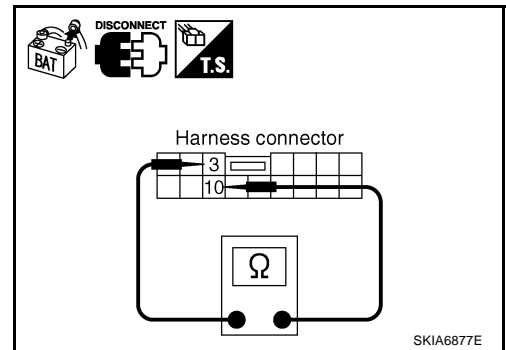
3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 11.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

3 (L) - Ground : Continuity should not exist.

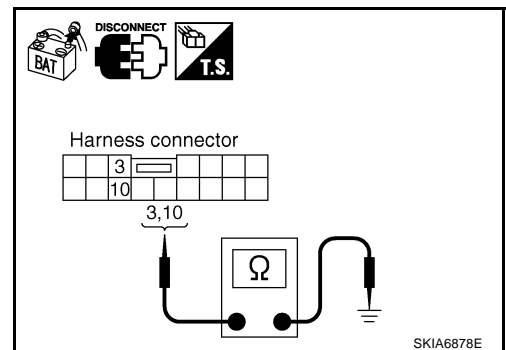
10 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 12.

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

- Harness between harness connector B5 and harness connector B8
- Harness between harness connector B5 and harness connector B5



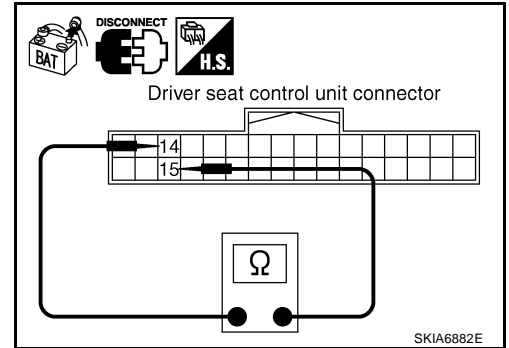
12. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector B152 terminals 14 (OR) and 15 (SB).

14 (OR) - 15 (SB) : Continuity should not exist.

OK or NG

- OK >> GO TO 13.
 NG >> Repair harness between driver seat control unit and harness connector B151.



13. CHECK HARNESS FOR SHORT CIRCUIT

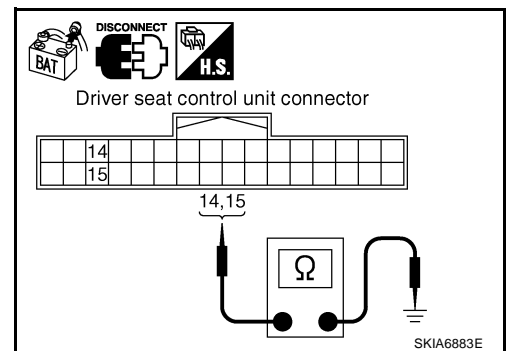
Check continuity between driver seat control unit harness connector B152 terminals 14 (OR), 15 (SB) and ground.

14 (OR) - Ground : Continuity should not exist.

15 (SB) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 14.
 NG >> Repair harness between driver seat control unit and harness connector B151.



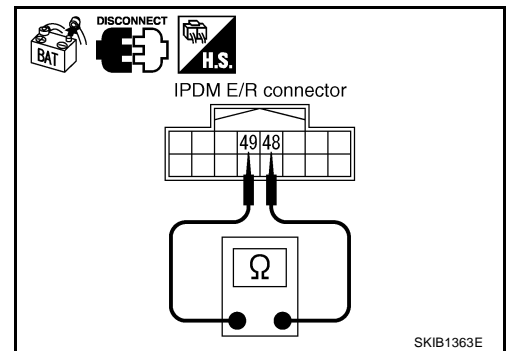
14. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 15.
 NG >> Repair harness between IPDM E/R and harness connector E205.



15. CHECK HARNESS FOR SHORT CIRCUIT

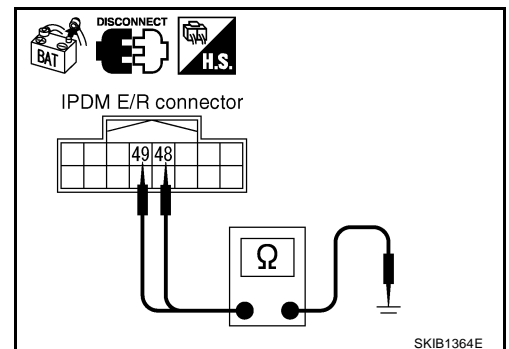
Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 16.
 NG >> Repair harness between IPDM E/R and harness connector E205.



16. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω

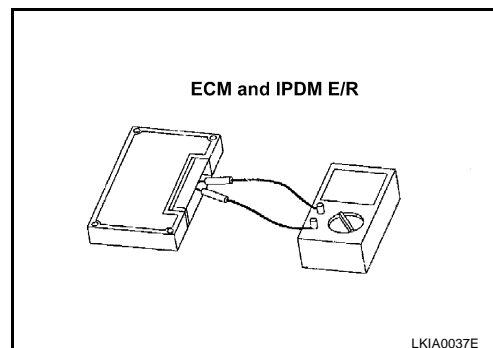
3. Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

OK or NG

OK >> GO TO 17.

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



17. CHECK SYMPTOM

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

OK or NG

OK >> GO TO 18.

NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

18. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

Not reproduced>>Replace removed unit.

IPDM E/R Ignition Relay Circuit Inspection

AKS00CBG

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-12. "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START" "](#) .

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CAN SYSTEM (TYPE 9)

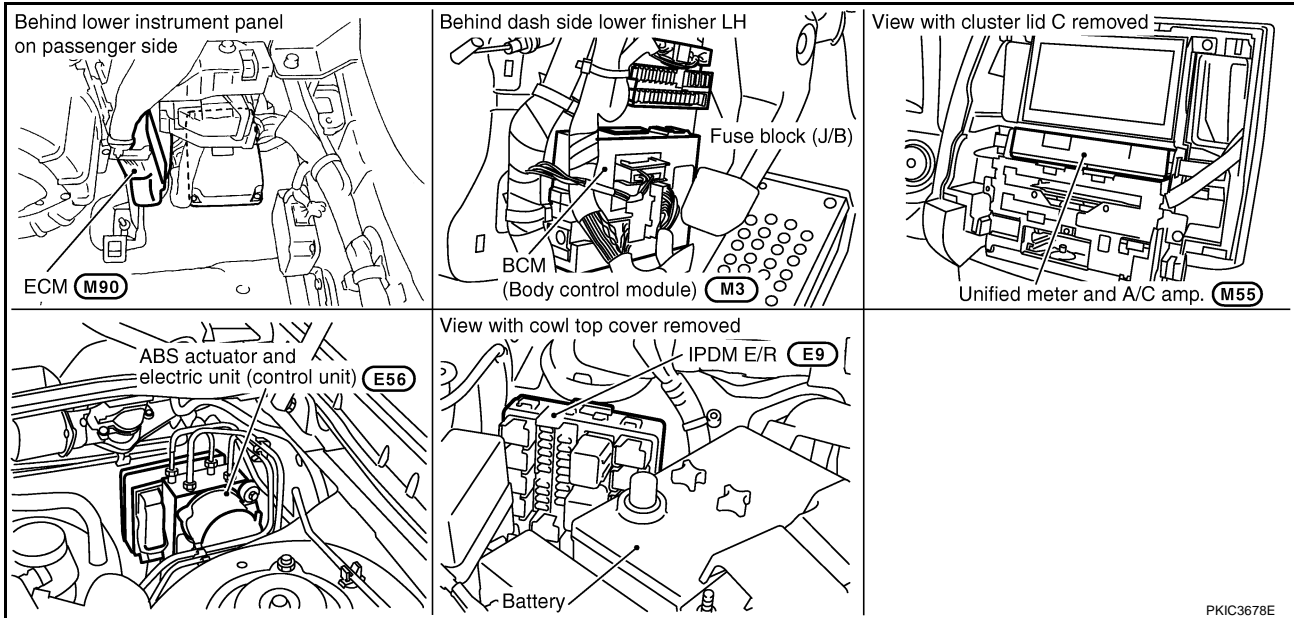
[CAN]

PFP:23710

AKS00FDC

CAN SYSTEM (TYPE 9)

Component Parts and Harness Connector Location

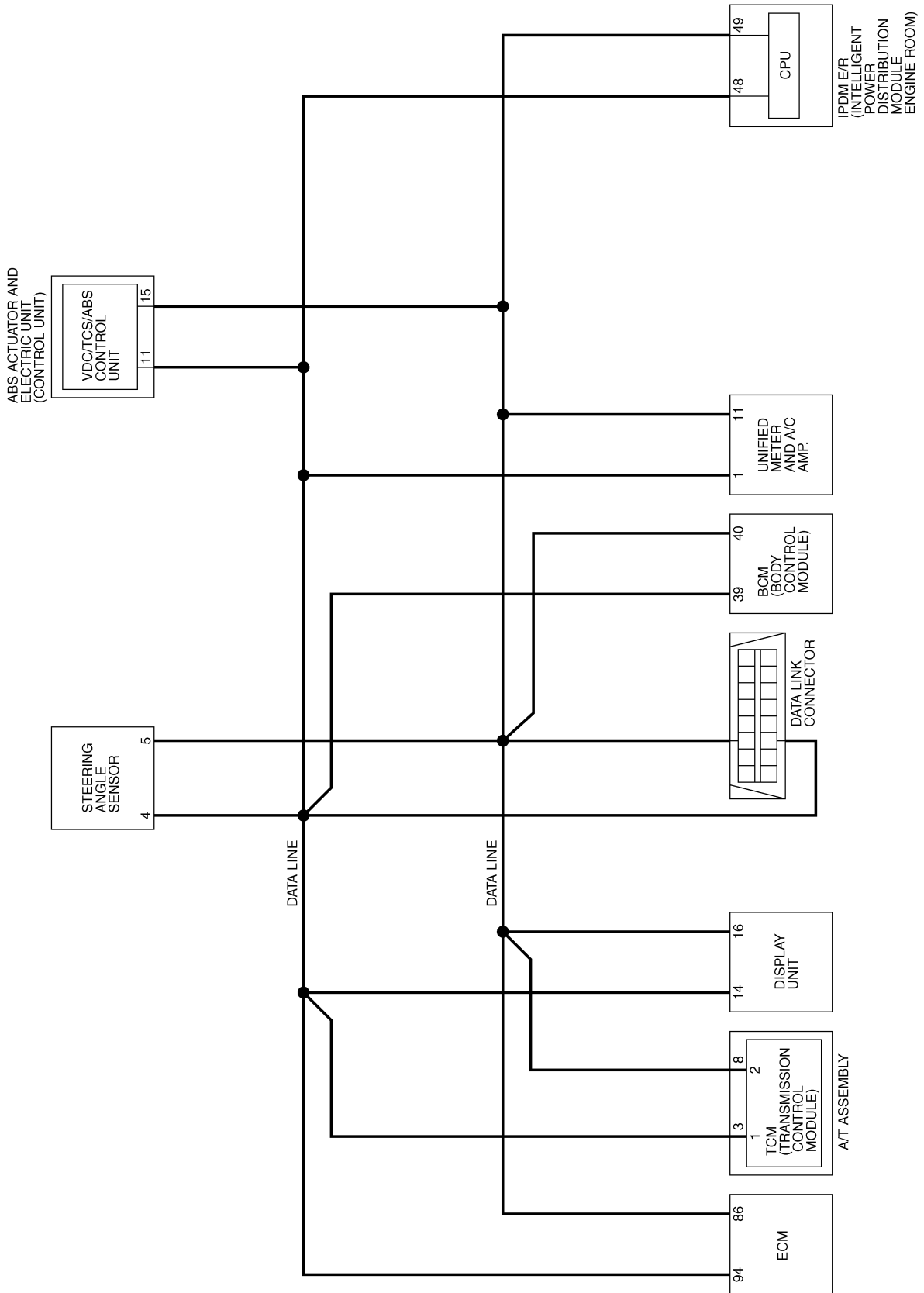


CAN SYSTEM (TYPE 9)

[CAN]

Schematic

AKS00FDD



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CAN SYSTEM (TYPE 9)

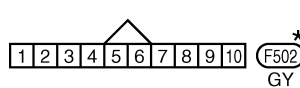
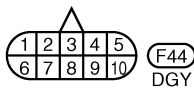
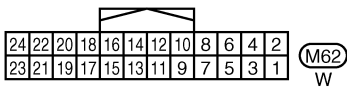
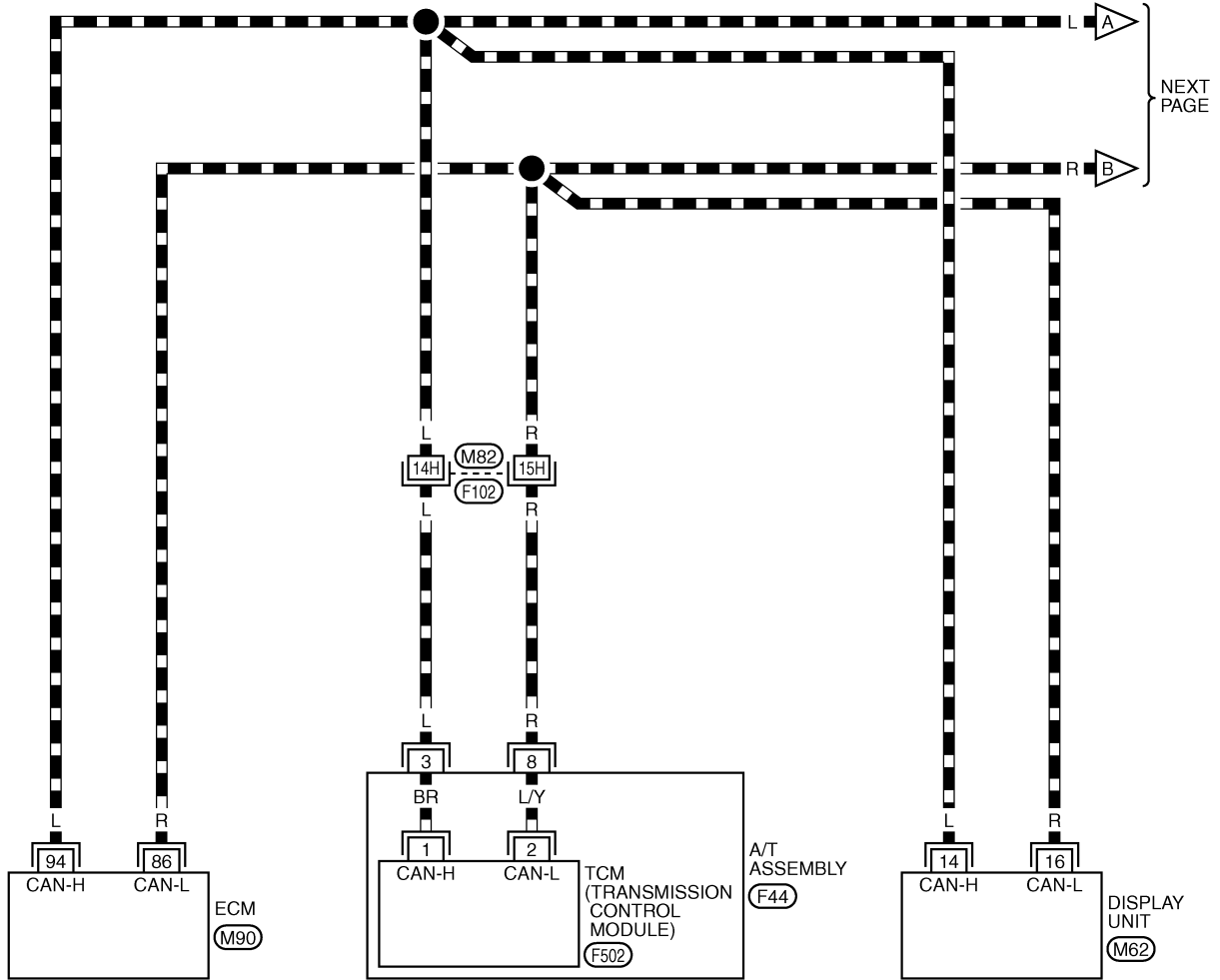
[CAN]

Wiring Diagram - CAN -

AKS00FDE

LAN-CAN-25

▬ : DATA LINE



REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M90) -ELECTRICAL UNITS

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

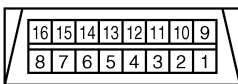
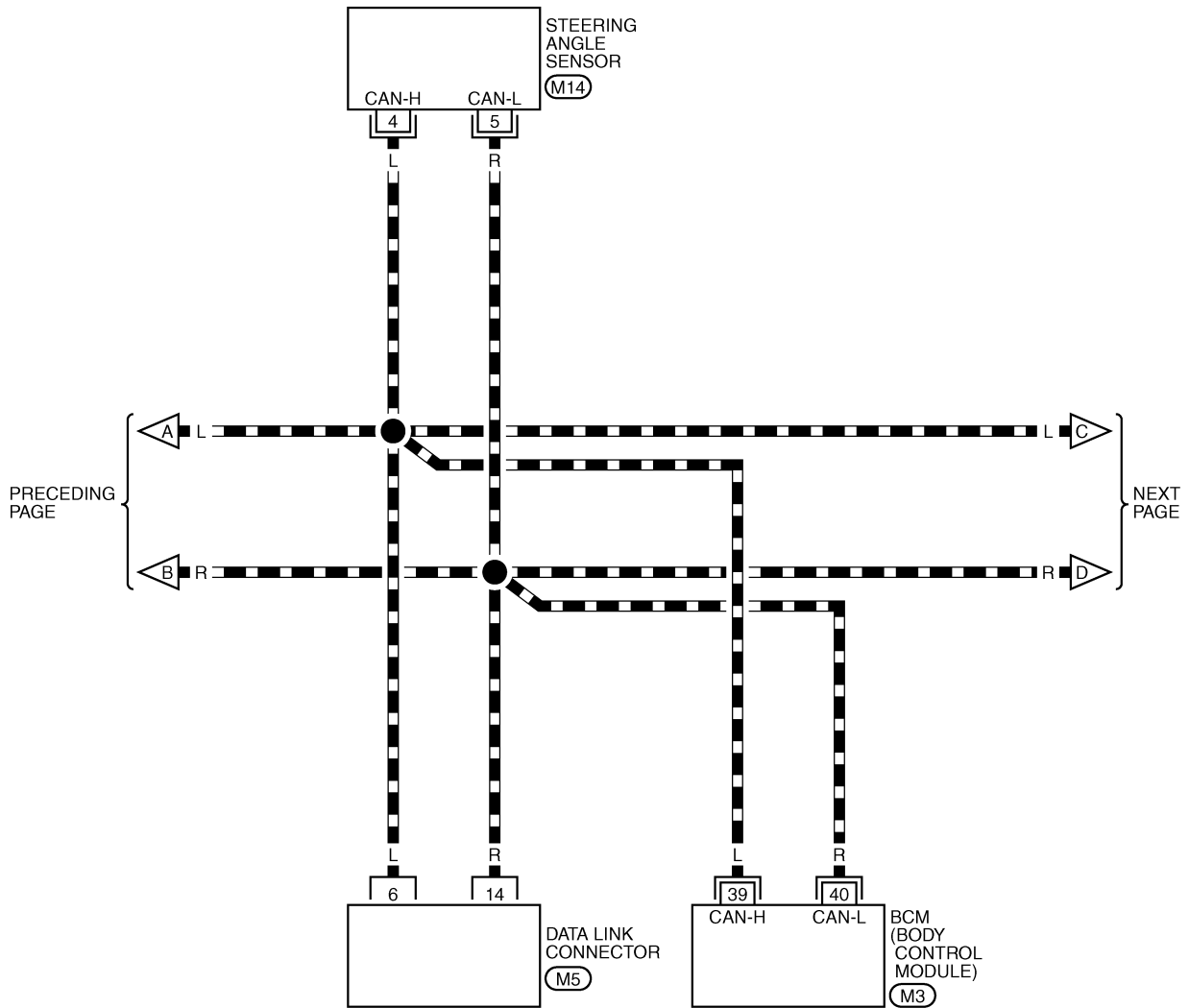
TKWB2712E

CAN SYSTEM (TYPE 9)

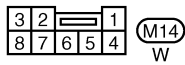
[CAN]

LAN-CAN-26

▬ : DATA LINE



(M5)
W



(M14)
W

REFER TO THE FOLLOWING.
(M3) -ELECTRICAL UNITS

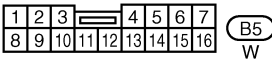
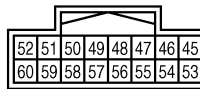
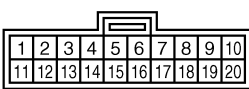
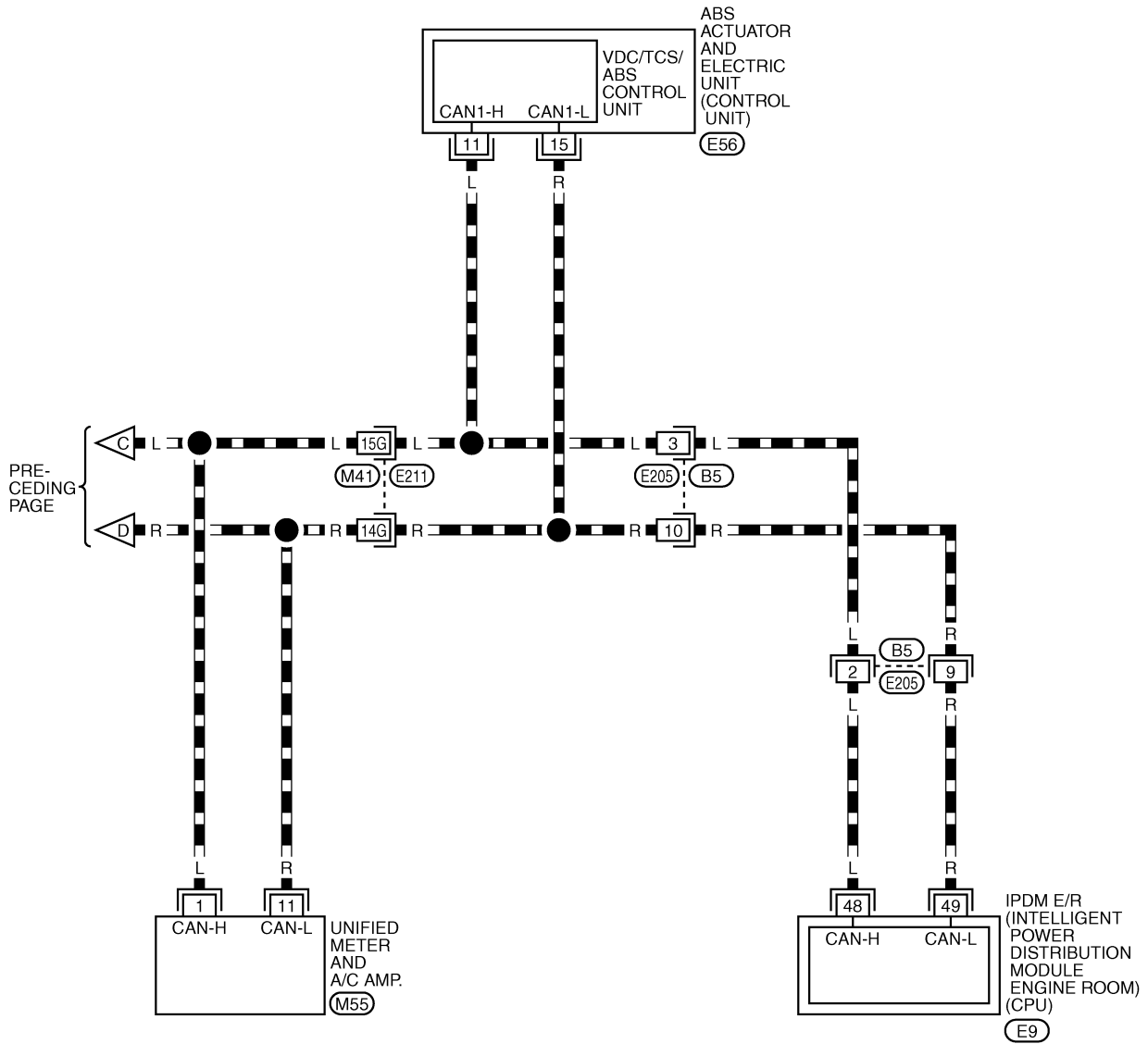
TKWB2713E

CAN SYSTEM (TYPE 9)

[CAN]

LAN-CAN-27

▬ : DATA LINE



REFER TO THE FOLLOWING.

(E211) -SUPER MULTIPLE JUNCTION (SMJ)

(E56) -ELECTRICAL UNITS

TKWB2714E

CAN SYSTEM (TYPE 9)

[CAN]

AKS00FDF

Check Sheet

NOTE:

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

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

Symptoms :

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Display unit Translation Sheet: Rewrite the following names, and put a check mark on the check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CANCOMM	Initial diagnosis	CAN5	METER/M&A
CAN1	Transmit diagnosis	CAN6	—
CAN2	BCM/SEC	CAN7	IPDM E/R
CAN3	ECM	CAN8	—
CAN4	—	CAN9	—

Attach copy of
display unit
CAN DIAG MONITOR check sheet

PKIC3682E

CAN SYSTEM (TYPE 9)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

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

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

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC3680E

CAN SYSTEM (TYPE 9)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

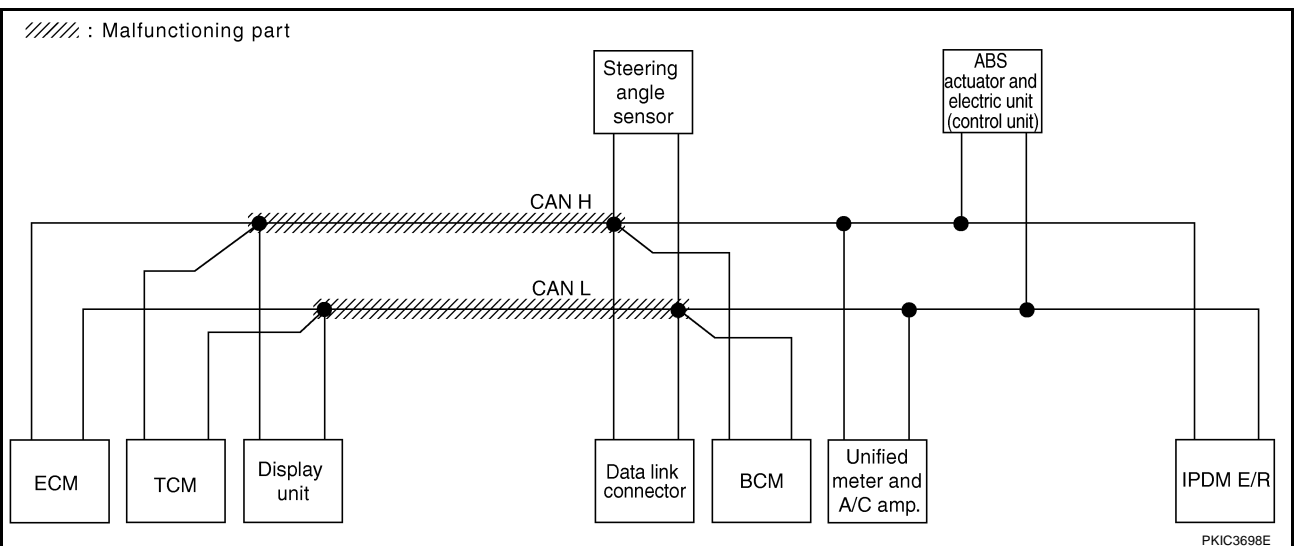
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to [LAN-421, "Inspection Between TCM and Data Link Connector Circuit"](#).

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

PKIC3683E



PKIC3698E

CAN SYSTEM (TYPE 9)

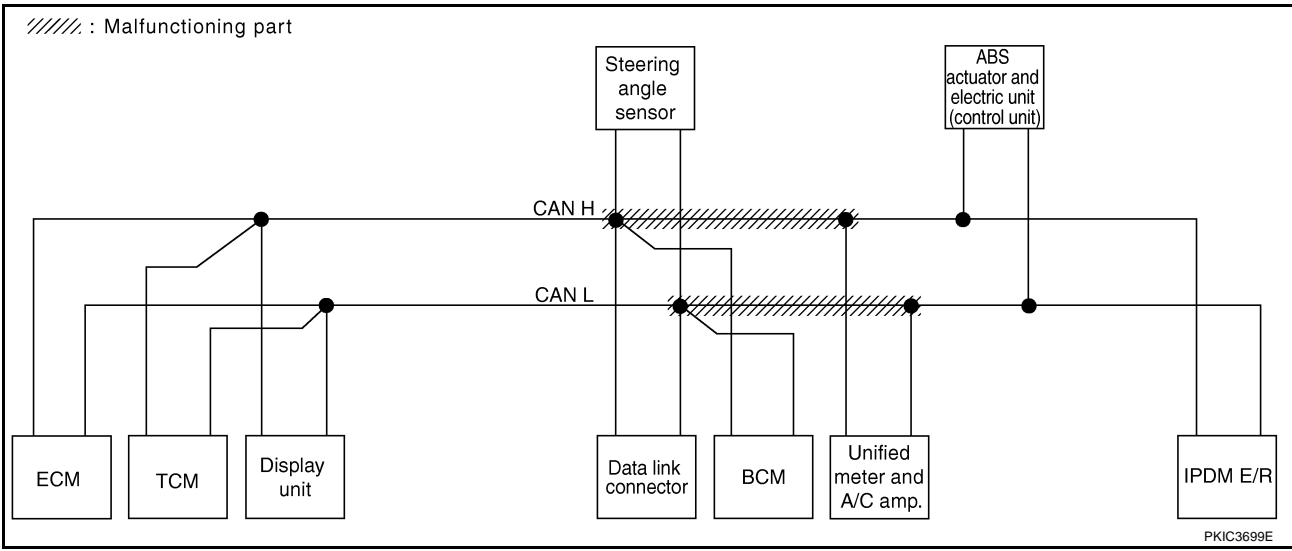
[CAN]

Case 2

Check harness between data link connector and unified meter and A/C amp. Refer to [LAN-422. "Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit"](#) .

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

PKIC3684E



PKIC3699E

CAN SYSTEM (TYPE 9)

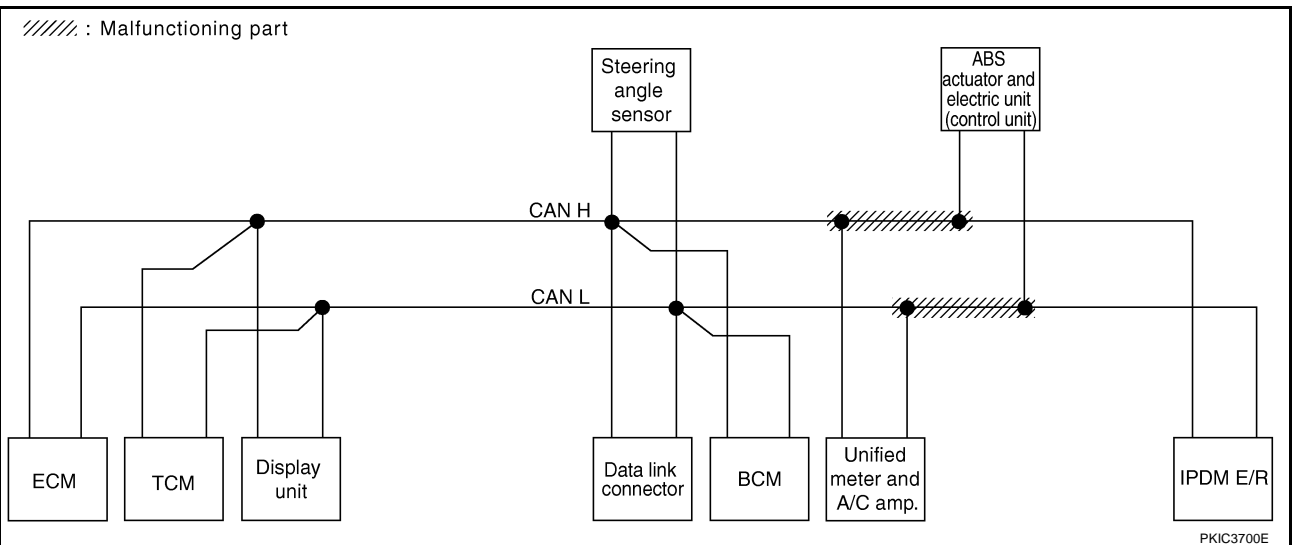
[CAN]

Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to LAN-422, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit" .

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

PKIC3685E



PKIC3700E

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CAN SYSTEM (TYPE 9)

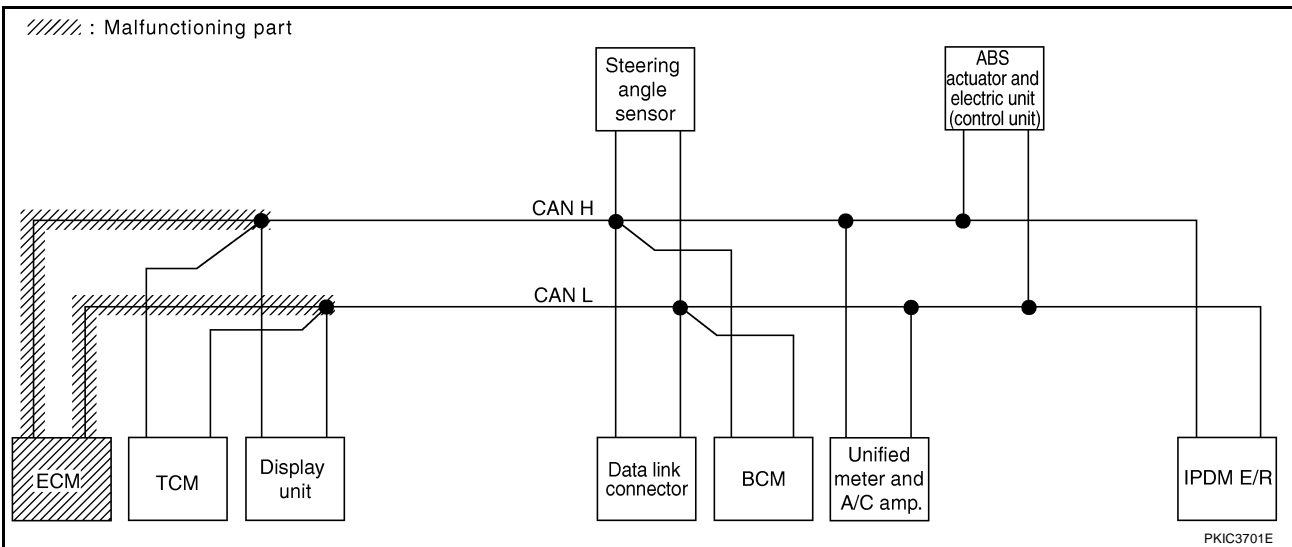
[CAN]

Case 4

Check ECM circuit. Refer to [LAN-423, "ECM Circuit Inspection"](#) .

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

PKIC3686E



PKIC3701E

CAN SYSTEM (TYPE 9)

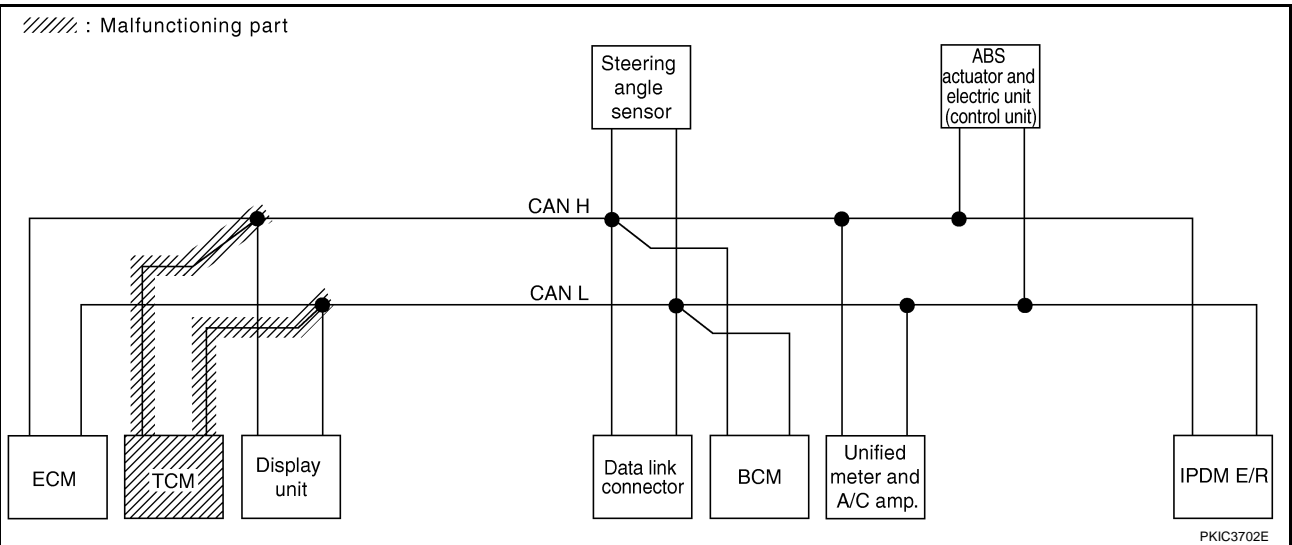
[CAN]

Case 5

Check TCM circuit. Refer to [LAN-423, "TCM Circuit Inspection"](#) .

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

PKIC3687E



PKIC3702E

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CAN SYSTEM (TYPE 9)

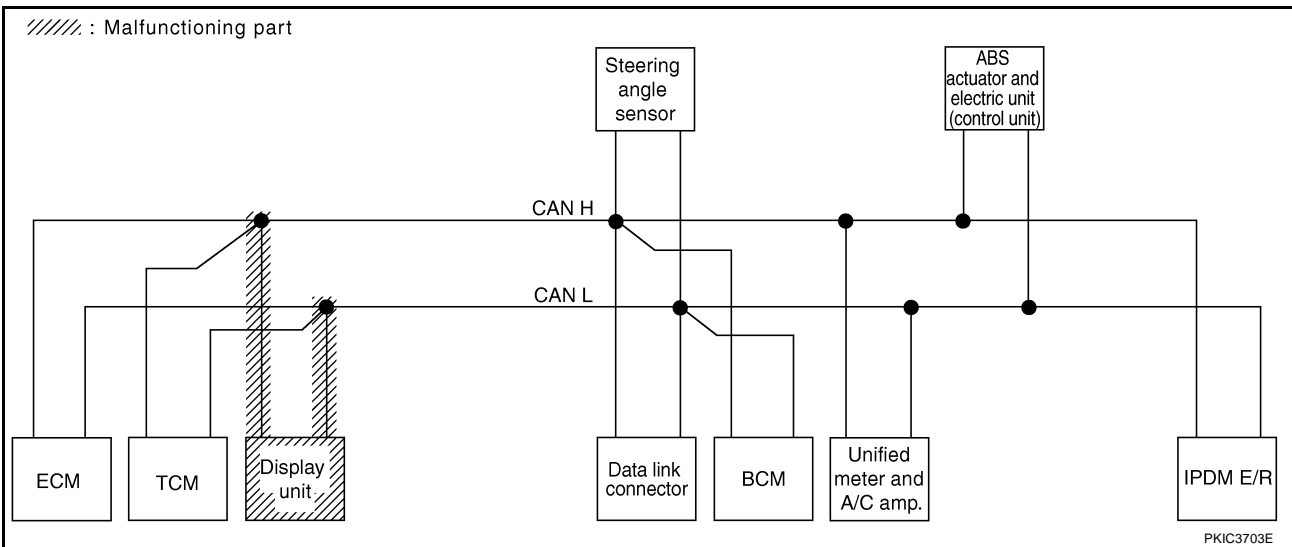
[CAN]

Case 6

Check display unit circuit. Refer to [LAN-424, "Display Unit Circuit Inspection"](#) .

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

PKIC3688E



PKIC3703E

CAN SYSTEM (TYPE 9)

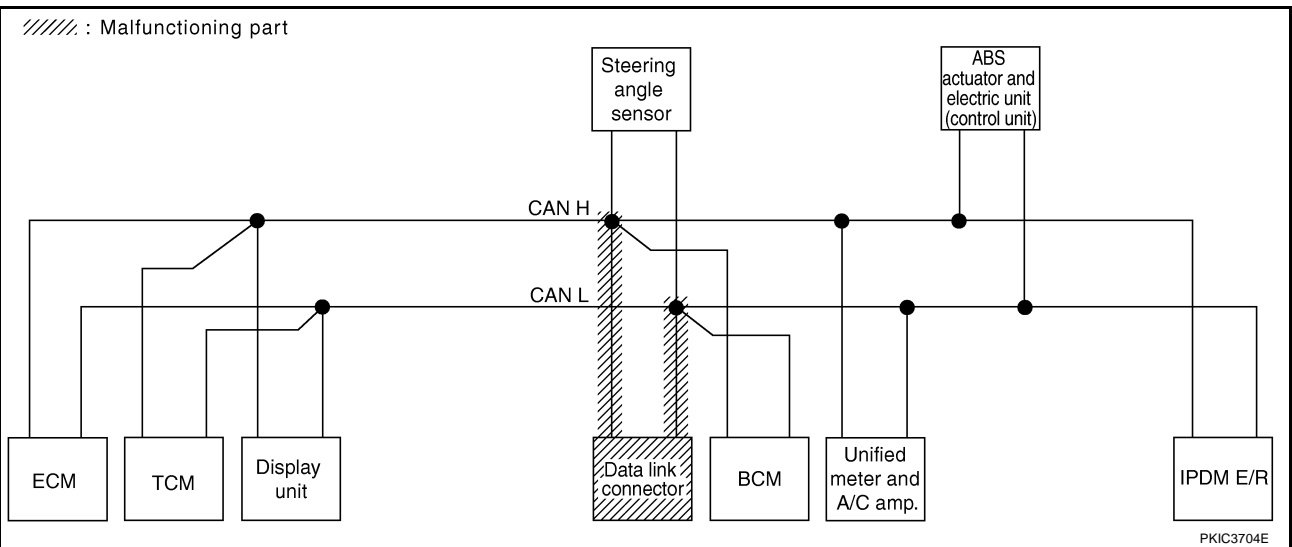
[CAN]

Case 7

Check data link connector circuit. Refer to [LAN-424, "Data Link Connector Circuit Inspection"](#) .

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

PKIC3689E



PKIC3704E

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CAN SYSTEM (TYPE 9)

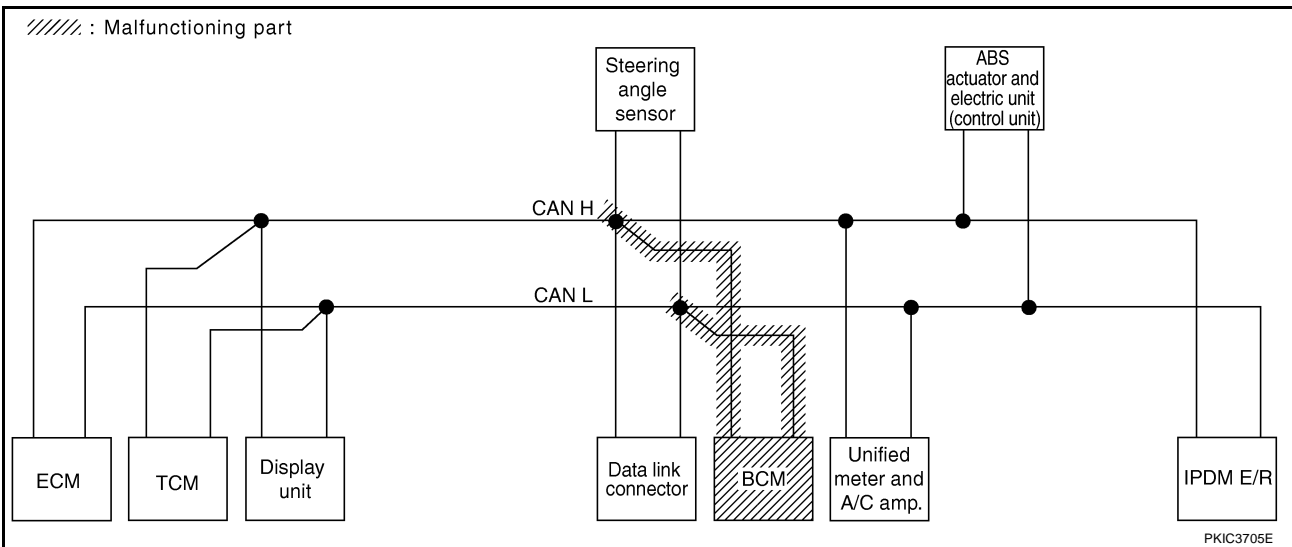
[CAN]

Case 8

Check BCM circuit. Refer to [LAN-425, "BCM Circuit Inspection"](#) .

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

PKIC3690E



PKIC3705E

CAN SYSTEM (TYPE 9)

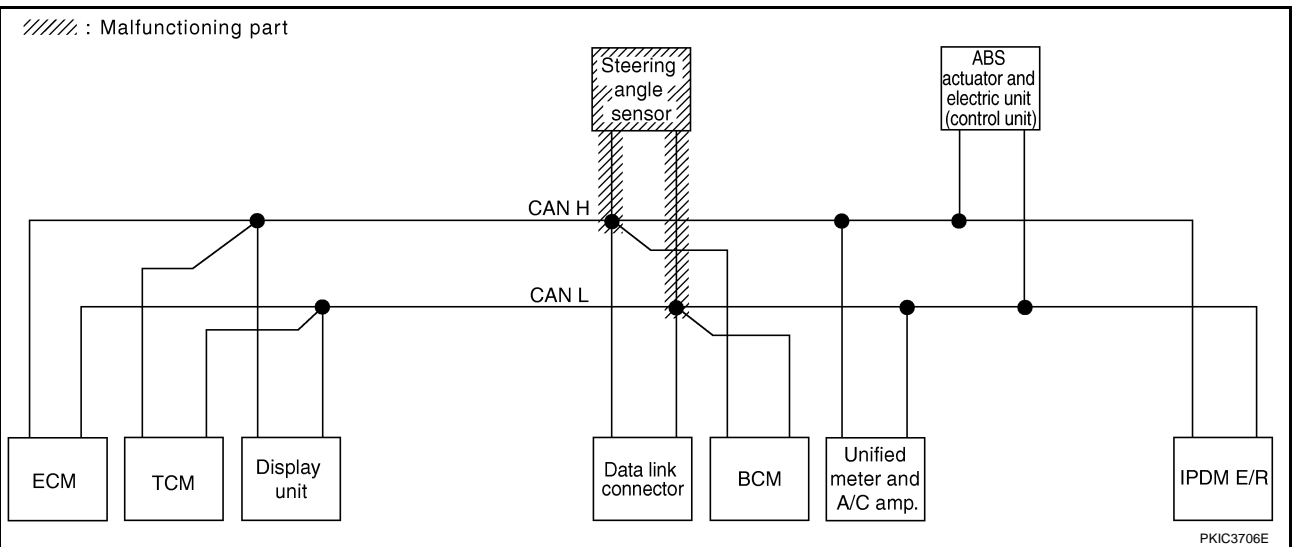
[CAN]

Case 9

Check steering angle sensor circuit. Refer to [LAN-425, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC3691E



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CAN SYSTEM (TYPE 9)

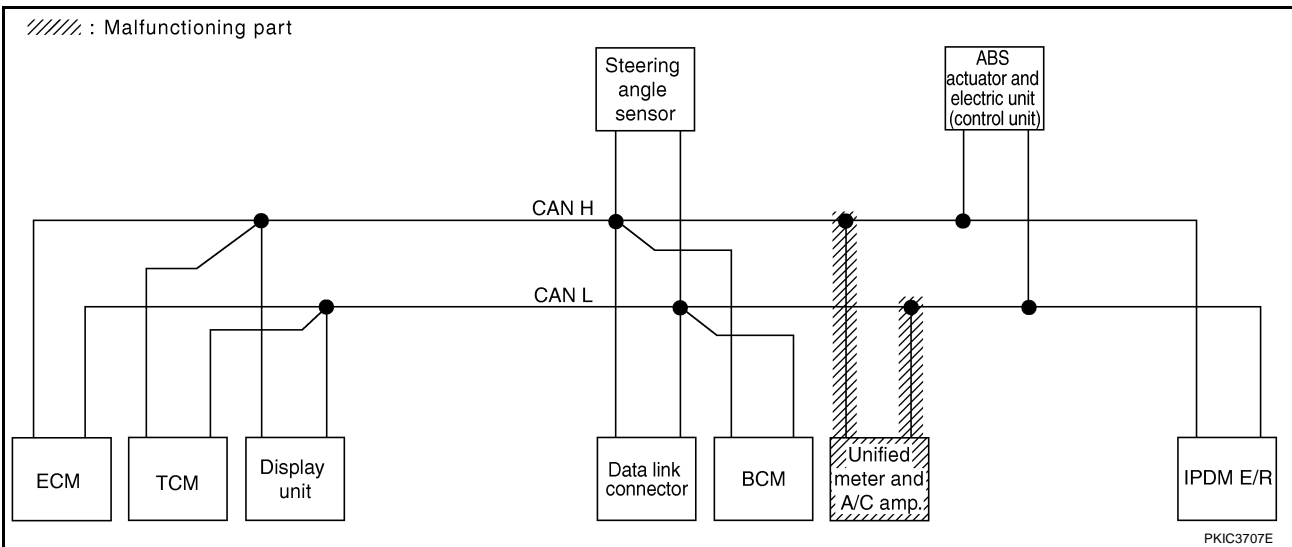
[CAN]

Case 10

Check unified meter and A/C amp. circuit. Refer to [LAN-426, "Unified Meter and A/C Amp. Circuit Inspection"](#) .

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

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PKIC3707E

CAN SYSTEM (TYPE 9)

[CAN]

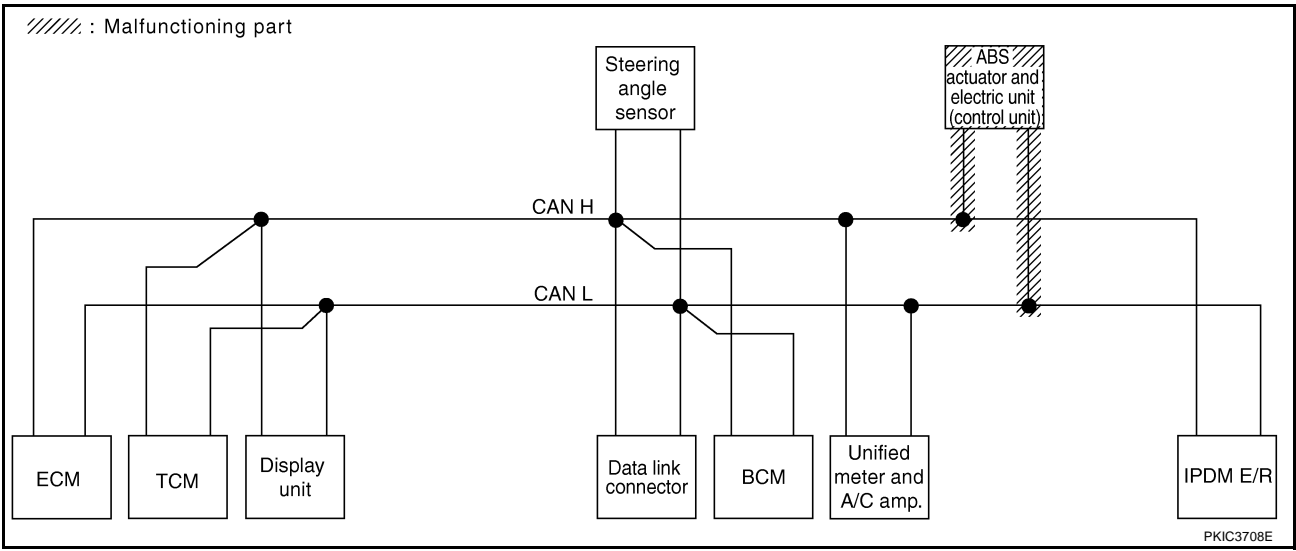
Case 11

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-426, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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

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PKIC3708E

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CAN SYSTEM (TYPE 9)

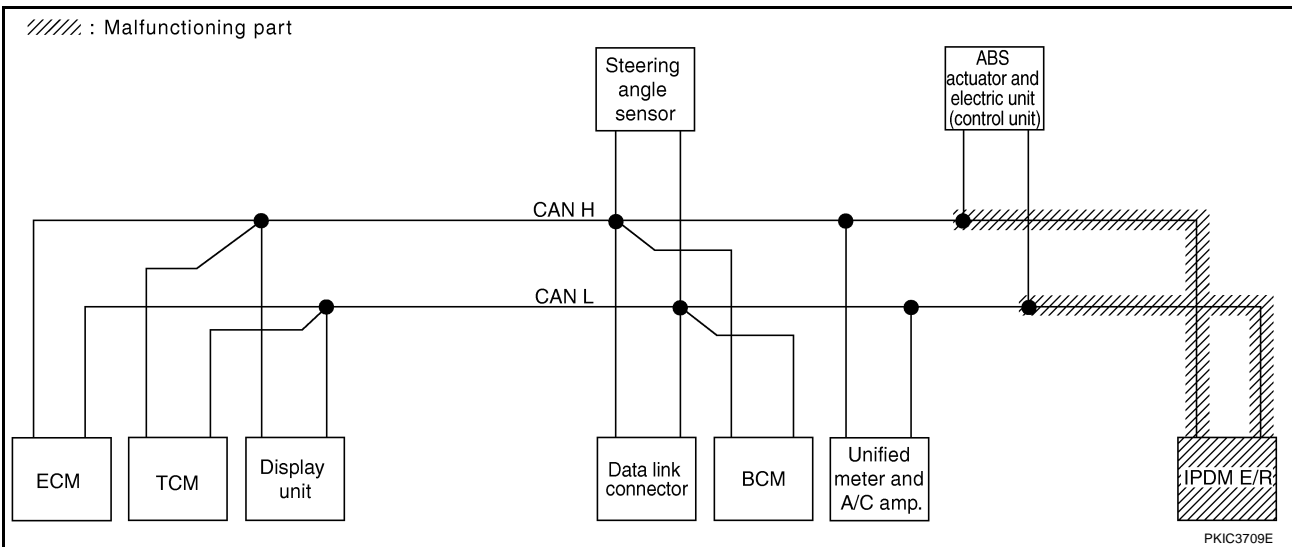
[CAN]

Case 12

Check IPDM E/R circuit. Refer to [LAN-427, "IPDM E/R Circuit Inspection"](#) .

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

PKIC3694E



PKIC3709E

CAN SYSTEM (TYPE 9)

[CAN]

Case 13

Check CAN communication circuit. Refer to [LAN-428, "CAN Communication Circuit Inspection"](#) .

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

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CAN SYSTEM (TYPE 9)

[CAN]

Case 14

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-433, "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	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	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) ✓	—
Display unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	—	—	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC3696E

Case 15

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-433, "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	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	NG	UNKWN	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3697E

Inspection Between TCM and Data Link Connector Circuit

AKS00FDG

1. CHECK HARNESS FOR OPEN CIRCUIT

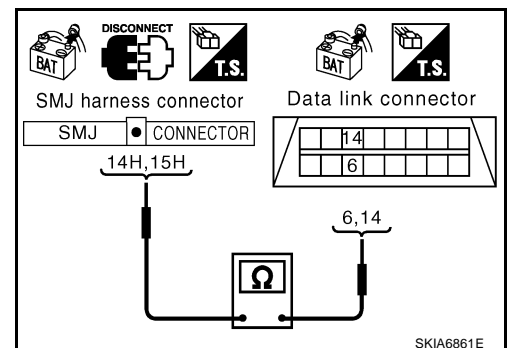
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Repair harness.



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Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

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1. CHECK HARNESS FOR OPEN CIRCUIT

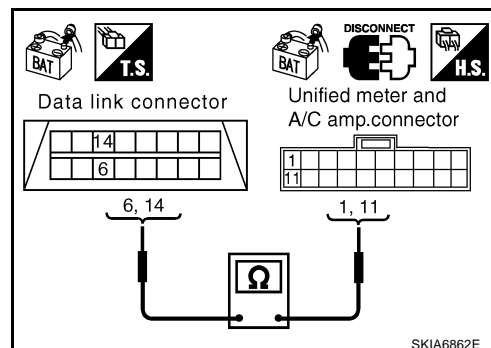
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.

14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

AKS00FDI

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 M41
 - Harness connector E211

OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

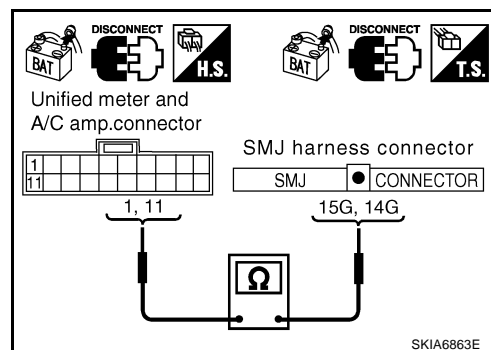
1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.

11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



3. CHECK HARNESS FOR OPEN CIRCUIT

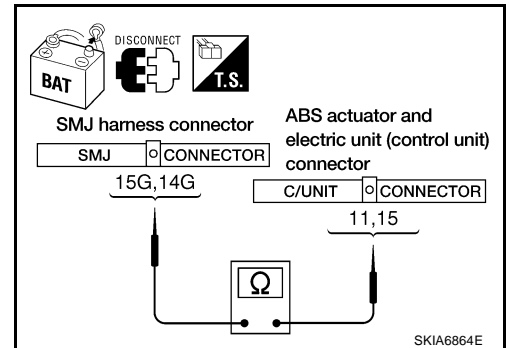
1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.

14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

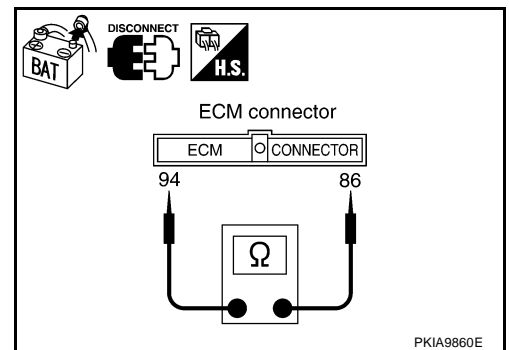
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM and harness connector M82.



TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

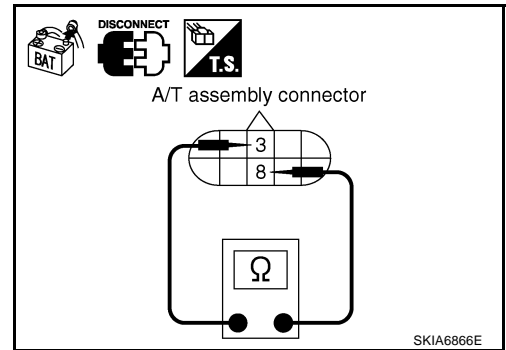
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



Display 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 unit for damage, bend and loose connection (unit side and harness side).

OK or NG

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

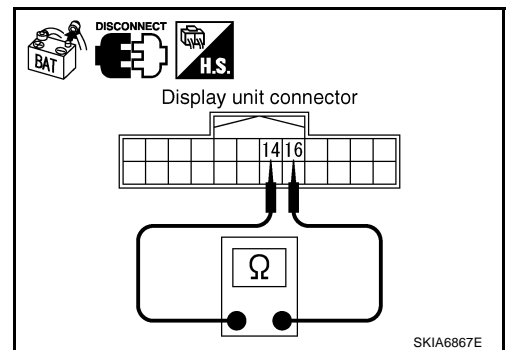
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display unit connector.
2. Check resistance between display unit harness connector M62 terminals 14 (L) and 16 (R).

14 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit and harness connector M82.



Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

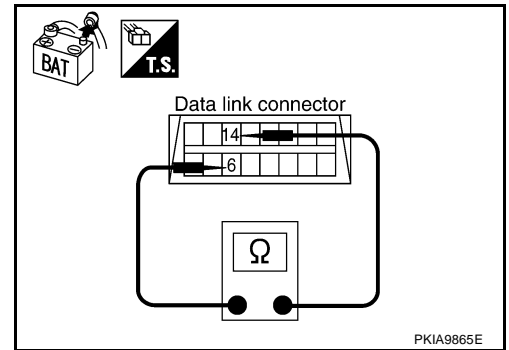
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Repair harness between data link connector and BCM.



AKS00FDN

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.

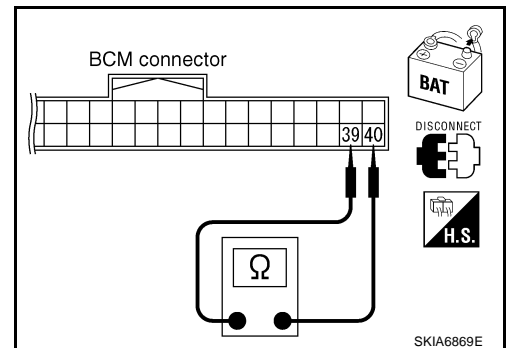
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#) .
- NG >> Repair harness between BCM and data link connector.



AKS00FDO

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.

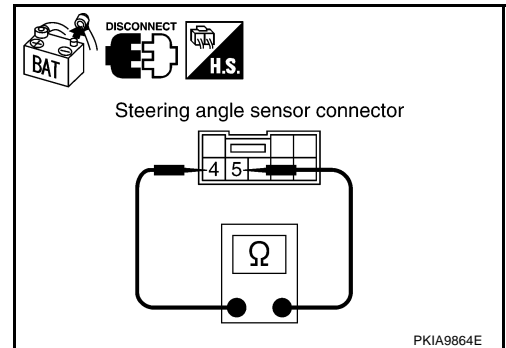
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



Unified Meter and A/C Amp. Circuit Inspection

AKS00FDP

1. CHECK CONNECTOR

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

OK or NG

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

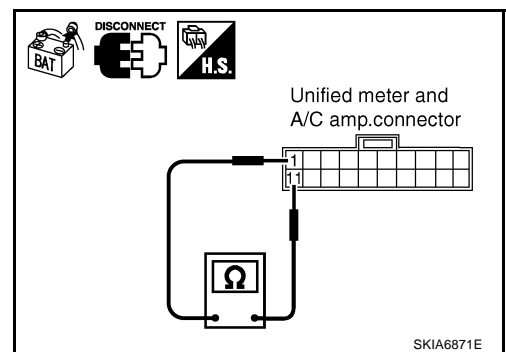
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

AKS00FDQ

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.

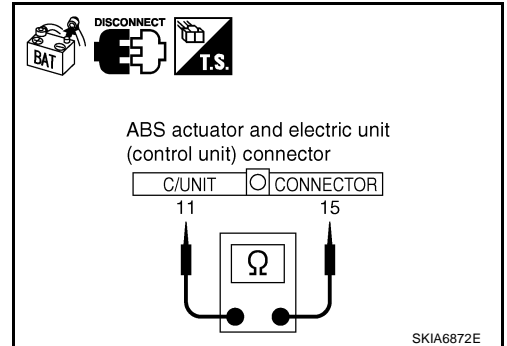
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

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 E205.



AKS00FDR

IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

OK or NG

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

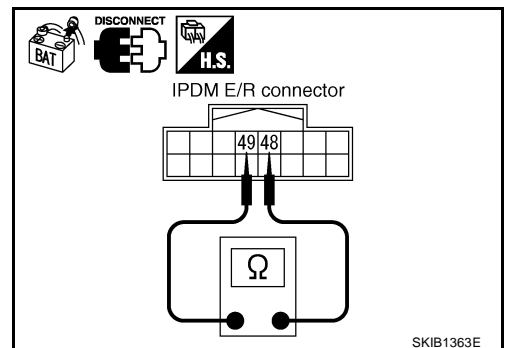
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Approx. 108 - 132Ω

OK or NG

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



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CAN Communication Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

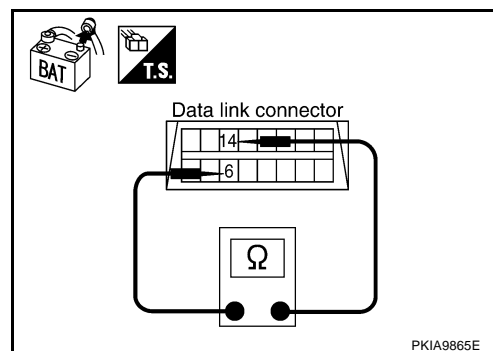
2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display unit connector
 - BCM connector
 - Steering angle sensor connector
 - Unified meter and A/C amp. connector
 - Harness connector M41
2. Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between data link connector and ECM
 - Harness between data link connector and harness connector M82
 - Harness between data link connector and display unit
 - Harness between data link connector and BCM
 - Harness between data link connector and steering angle sensor
 - Harness between data link connector and unified meter and A/C amp.
 - Harness between data link connector and harness connector M41



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

6 (L) - Ground : Continuity should not exist.

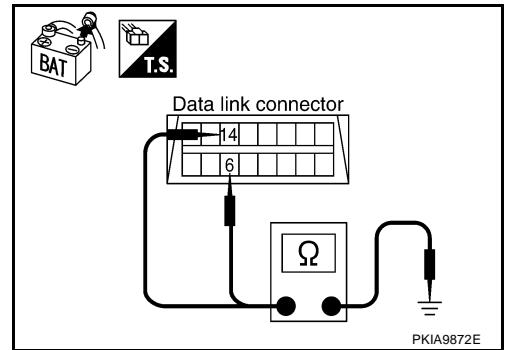
14 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



4. CHECK HARNESS FOR SHORT CIRCUIT

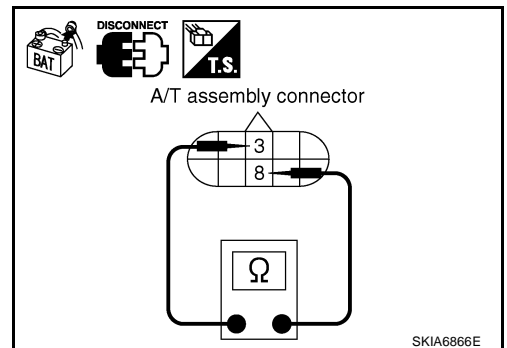
1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 5.

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



5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

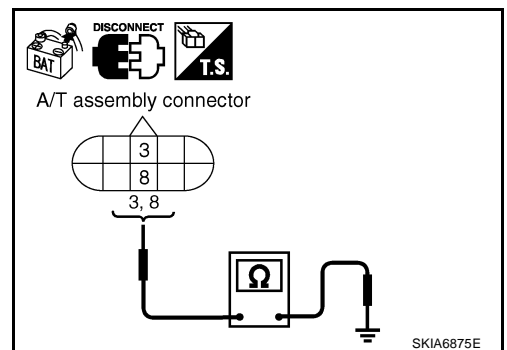
3 (L) - Ground : Continuity should not exist.

8 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 6.

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



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6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

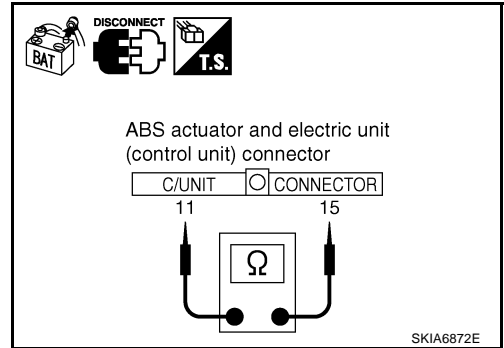
11 (L) - 15 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 7.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

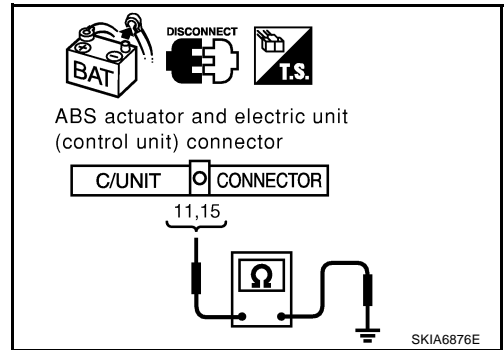
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 8.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



8. CHECK HARNESS FOR SHORT CIRCUIT

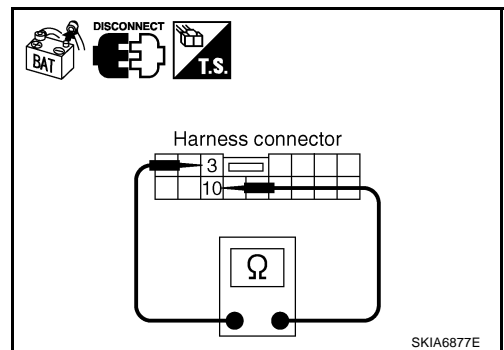
Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 9.

NG >> Repair harness between harness connector B5 and harness connector B5.



9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

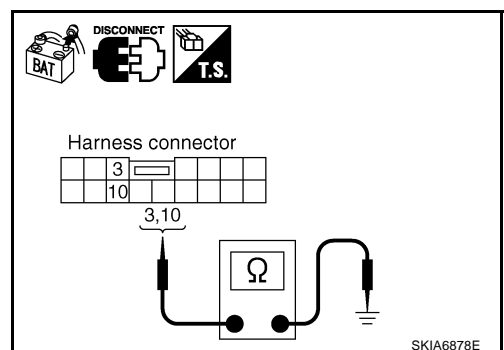
3 (L) - Ground : Continuity should not exist.

10 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

NG >> Repair harness between harness connector B5 and harness connector B5.



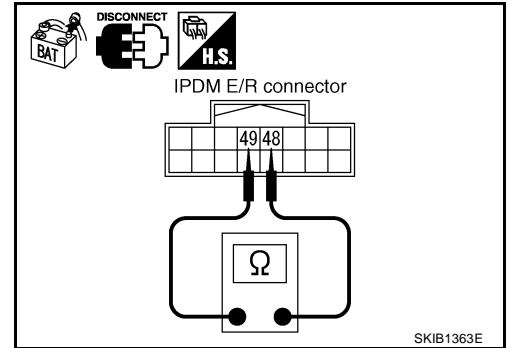
10. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 11.
 NG >> Repair harness between IPDM E/R and harness connector E205.



11. CHECK HARNESS FOR SHORT CIRCUIT

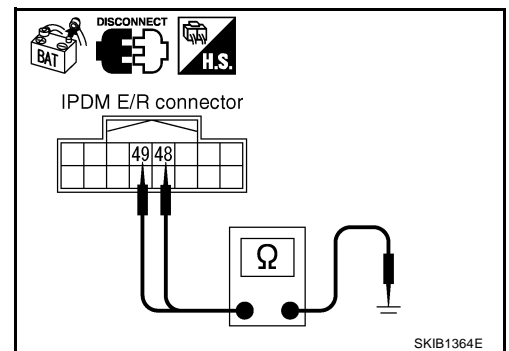
Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

- OK >> GO TO 12.
 NG >> Repair harness between IPDM E/R and harness connector E205.



12. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.

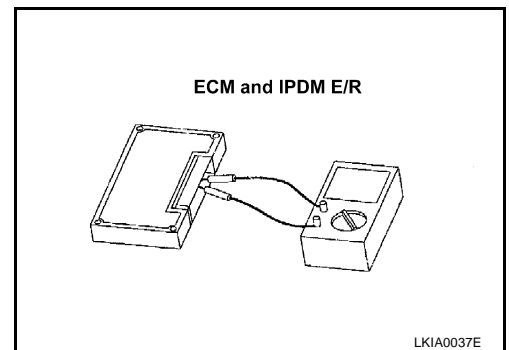
94 - 86 : Approx. 108 - 132Ω

3. Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

OK or NG

- OK >> GO TO 13.
 NG >> Replace ECM and/or IPDM E/R.



13. 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 14.
 NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

14. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

Not reproduced>>Replace removed unit.

IPDM E/R Ignition Relay Circuit Inspection

AKS00FDT

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-12, "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START""](#) .

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CAN SYSTEM (TYPE 10)

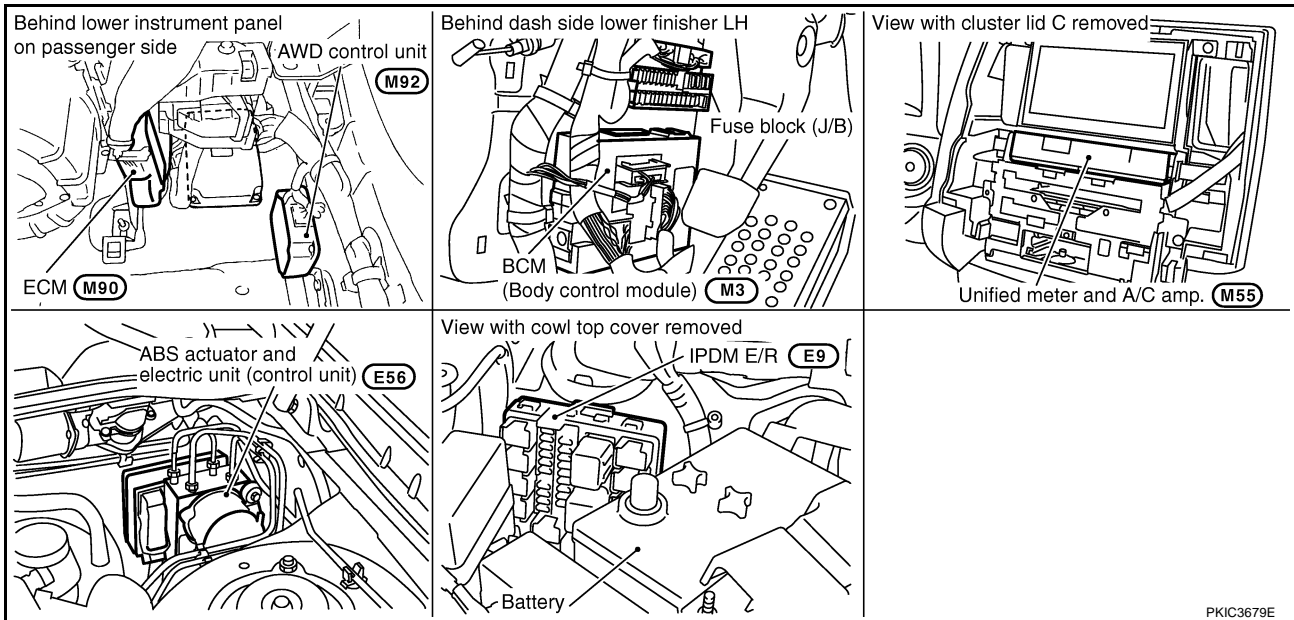
[CAN]

PFP:23710

AKS00FDU

CAN SYSTEM (TYPE 10)

Component Parts and Harness Connector Location

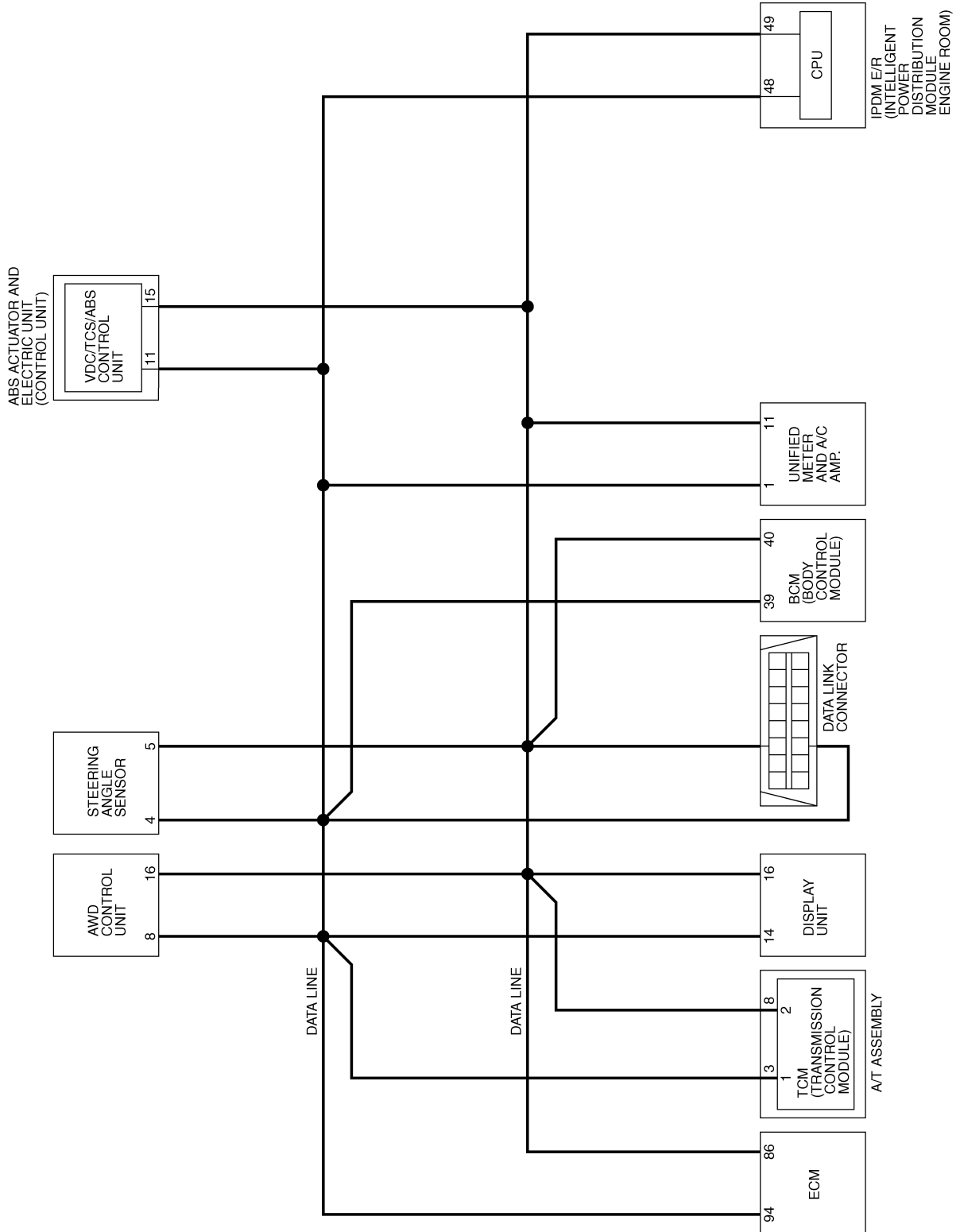


CAN SYSTEM (TYPE 10)

[CAN]

Schematic

AKS00FDV



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TKWB2715E

CAN SYSTEM (TYPE 10)

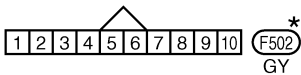
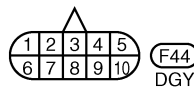
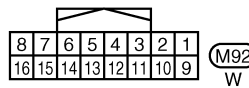
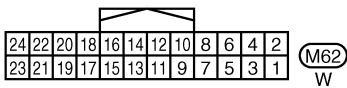
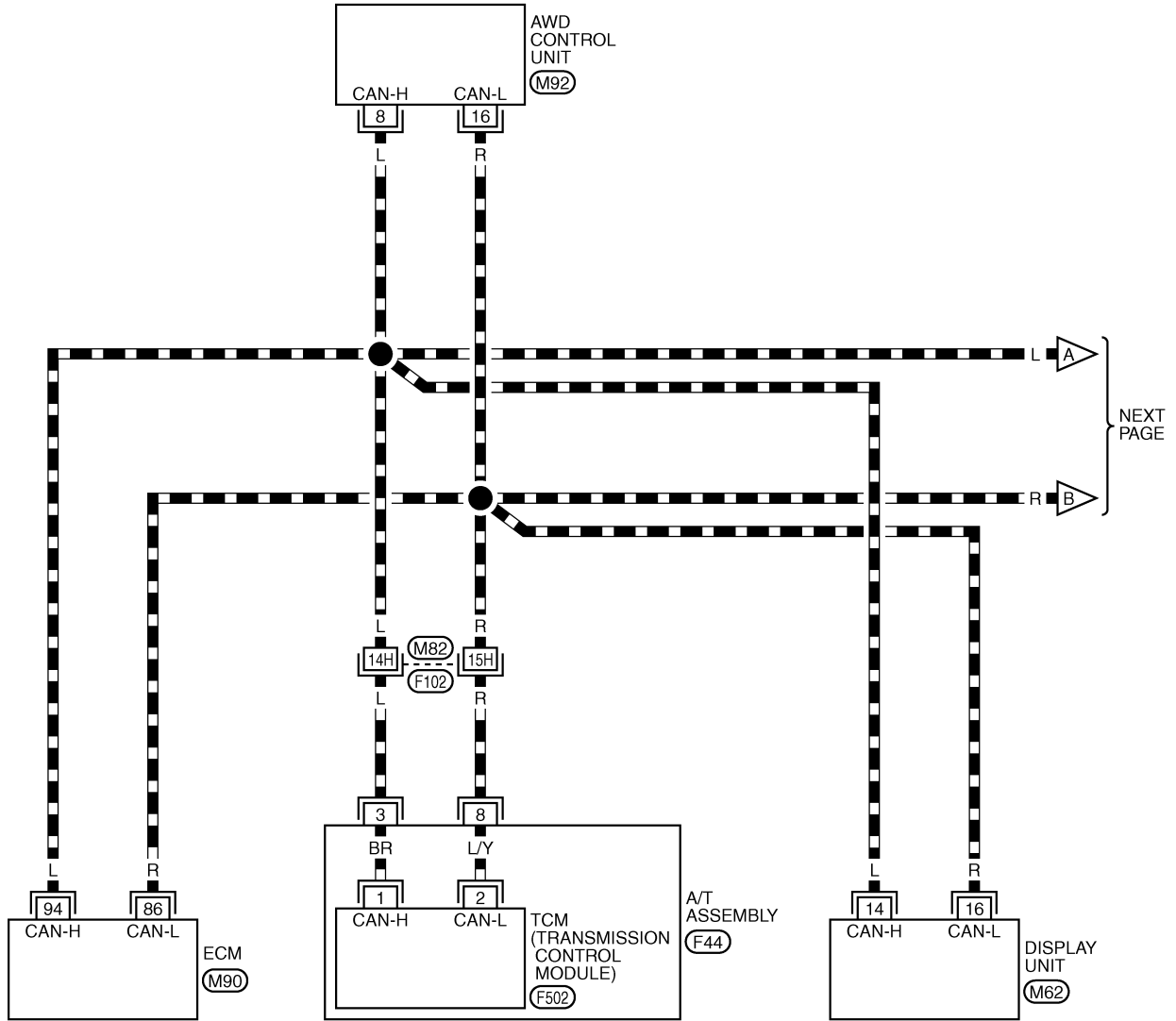
[CAN]

AKS00FDW

Wiring Diagram - CAN -

LAN-CAN-28

▬ : DATA LINE



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

REFER TO THE FOLLOWING.

(F102) -SUPER MULTIPLE JUNCTION (SMJ)

(M90) -ELECTRICAL UNITS

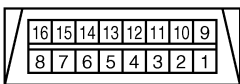
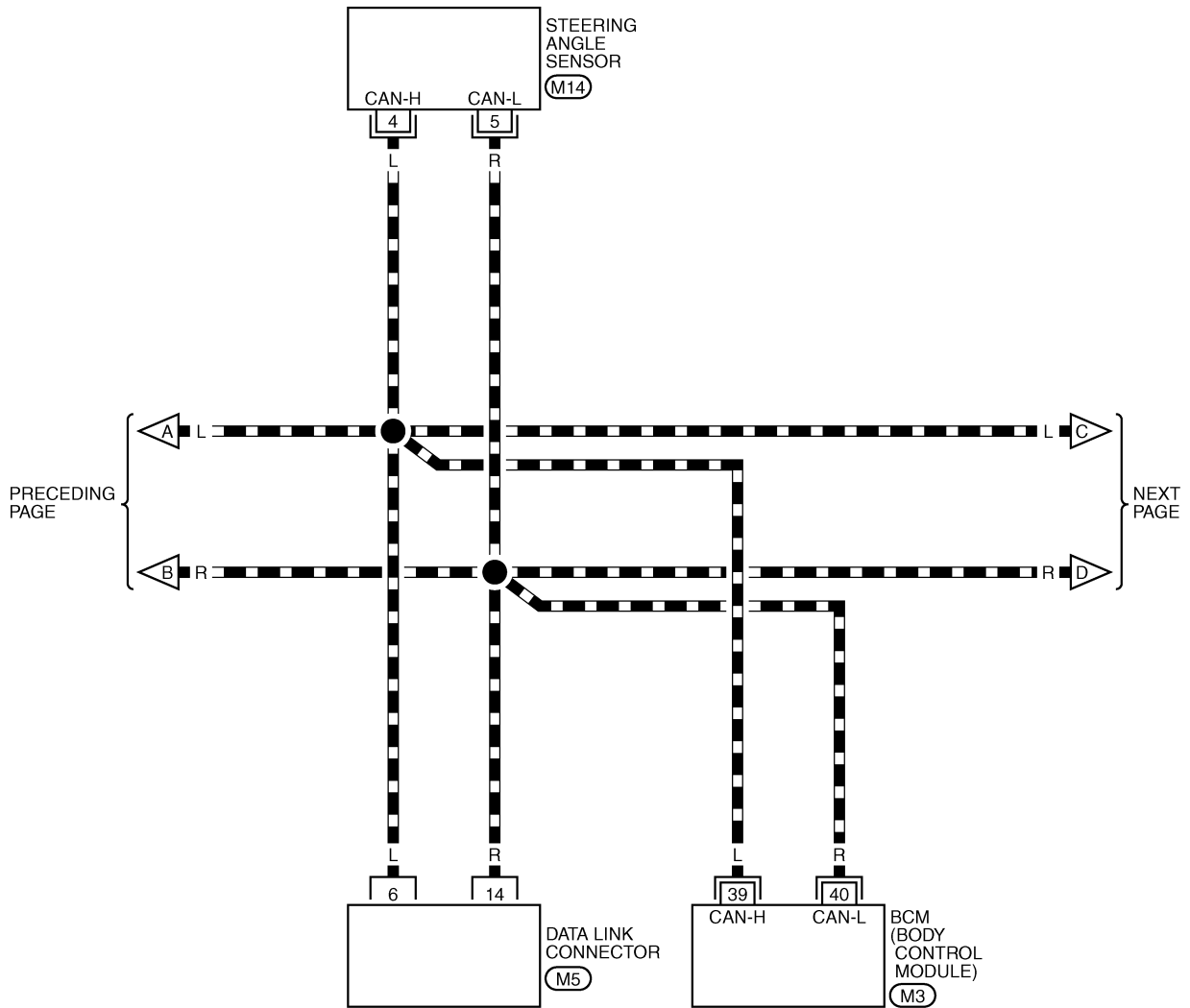
TKWB2716E

CAN SYSTEM (TYPE 10)

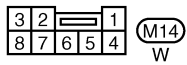
[CAN]

LAN-CAN-29

▬ : DATA LINE



(M5)
W



(M14)
W

REFER TO THE FOLLOWING.
(M3) -ELECTRICAL UNITS

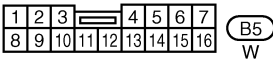
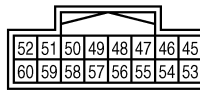
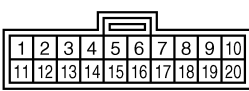
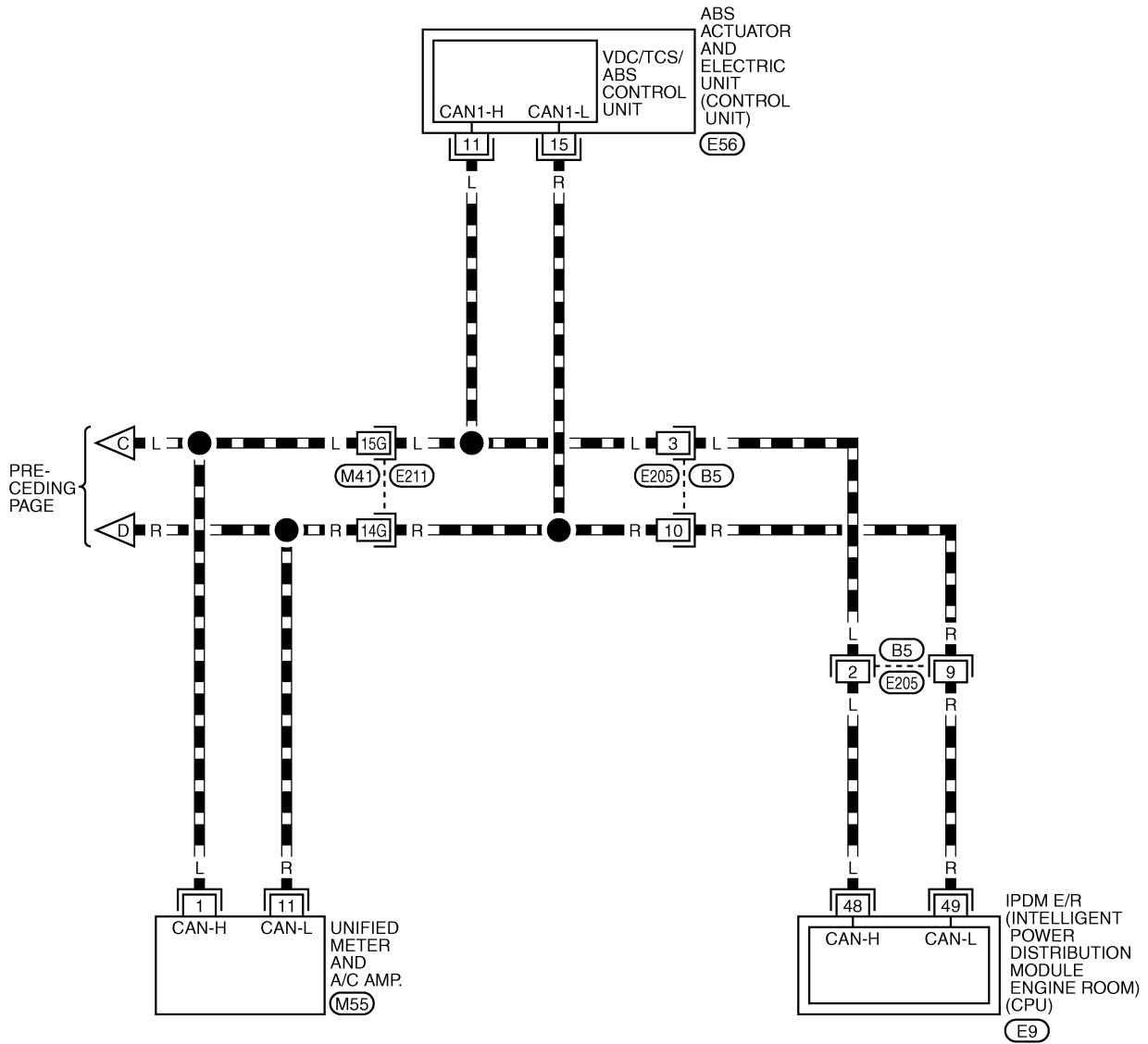
TKWB2717E

CAN SYSTEM (TYPE 10)

[CAN]

LAN-CAN-30

▬ : DATA LINE



REFER TO THE FOLLOWING.

(E21) -SUPER MULTIPLE JUNCTION (SMJ)

(E56) -ELECTRICAL UNITS

TKWB2718E

CAN SYSTEM (TYPE 10)

[CAN]

AKS00FDX

Check Sheet

NOTE:

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

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

LAN

Display unit Translation Sheet: Rewrite the following names, and put a check mark on the check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CANCOMM	Initial diagnosis	CAN5	METER/M&A
CAN1	Transmit diagnosis	CAN6	—
CAN2	BCM/SEC	CAN7	IPDM E/R
CAN3	ECM	CAN8	—
CAN4	—	CAN9	—

Attach copy of
display unit
CAN DIAG MONITOR check sheet

PKIC3710E

CAN SYSTEM (TYPE 10)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
METER A/C AMP
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
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

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

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC3681E

CAN SYSTEM (TYPE 10)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

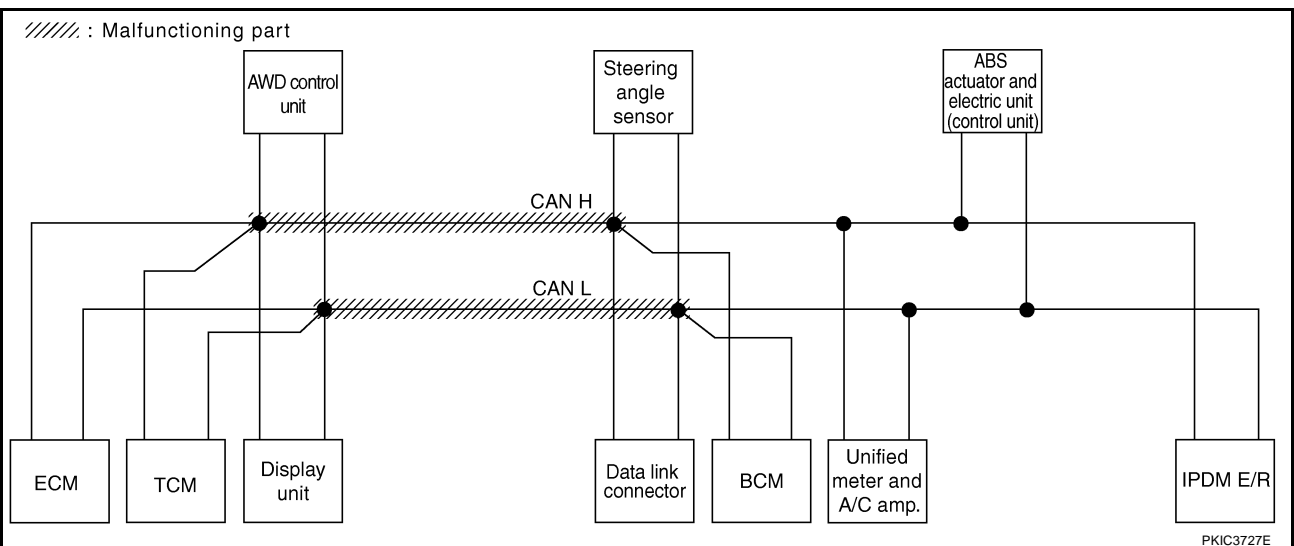
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to [LAN-456, "Inspection Between TCM and Data Link Connector Circuit"](#).

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

PKIC3711E



PKIC3727E

CAN SYSTEM (TYPE 10)

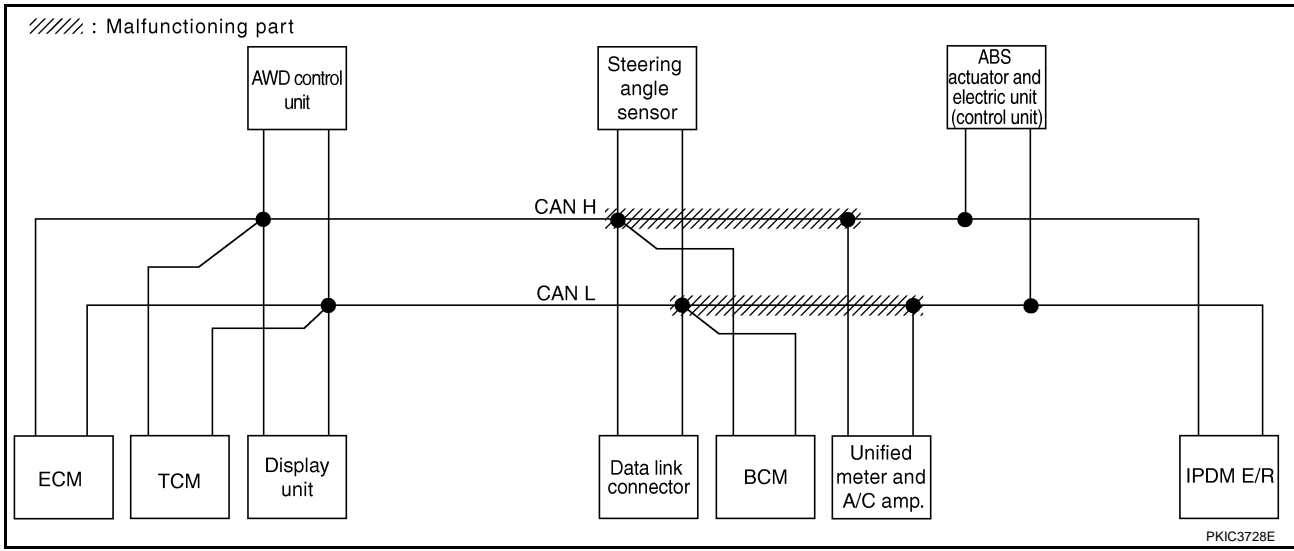
[CAN]

Case 2

Check harness between data link connector and unified meter and A/C amp. Refer to [LAN-457, "Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit"](#) .

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

PKIC3712E



PKIC3728E

CAN SYSTEM (TYPE 10)

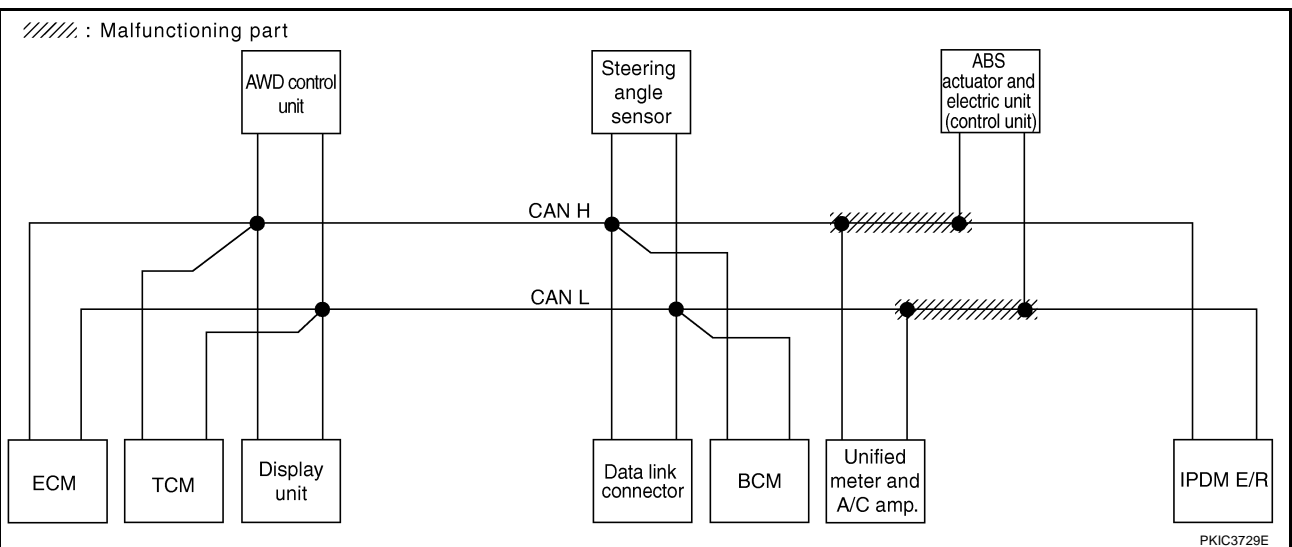
[CAN]

Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to [LAN-457, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#) .

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

PKIC3713E



PKIC3729E

CAN SYSTEM (TYPE 10)

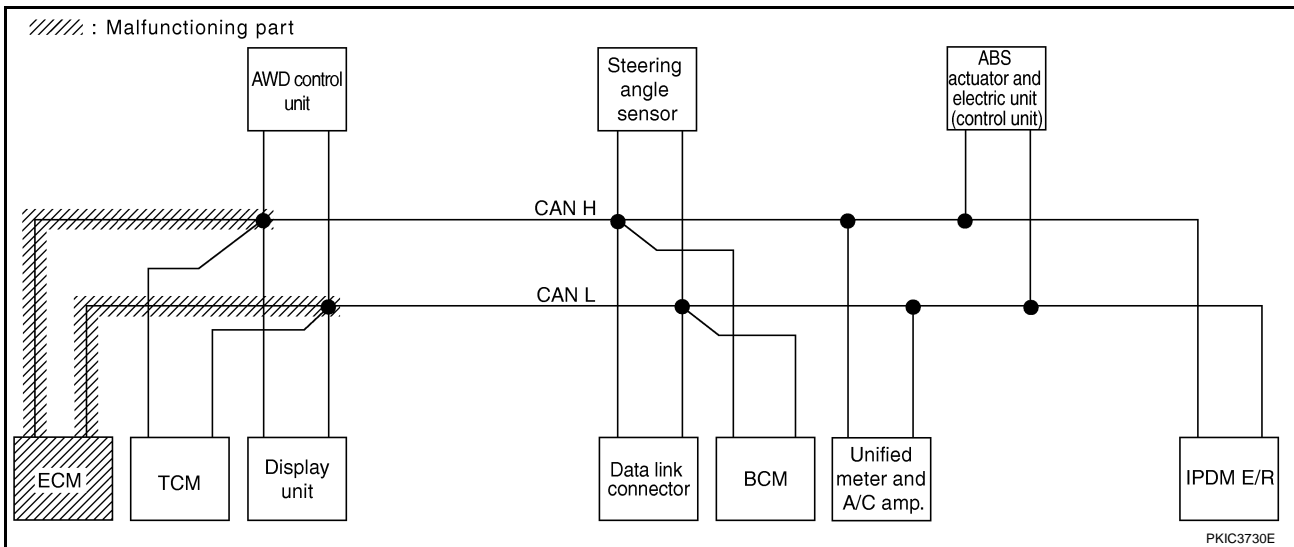
[CAN]

Case 4

Check ECM circuit. Refer to [LAN-458, "ECM Circuit Inspection"](#) .

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

PKIC3714E



PKIC3730E

CAN SYSTEM (TYPE 10)

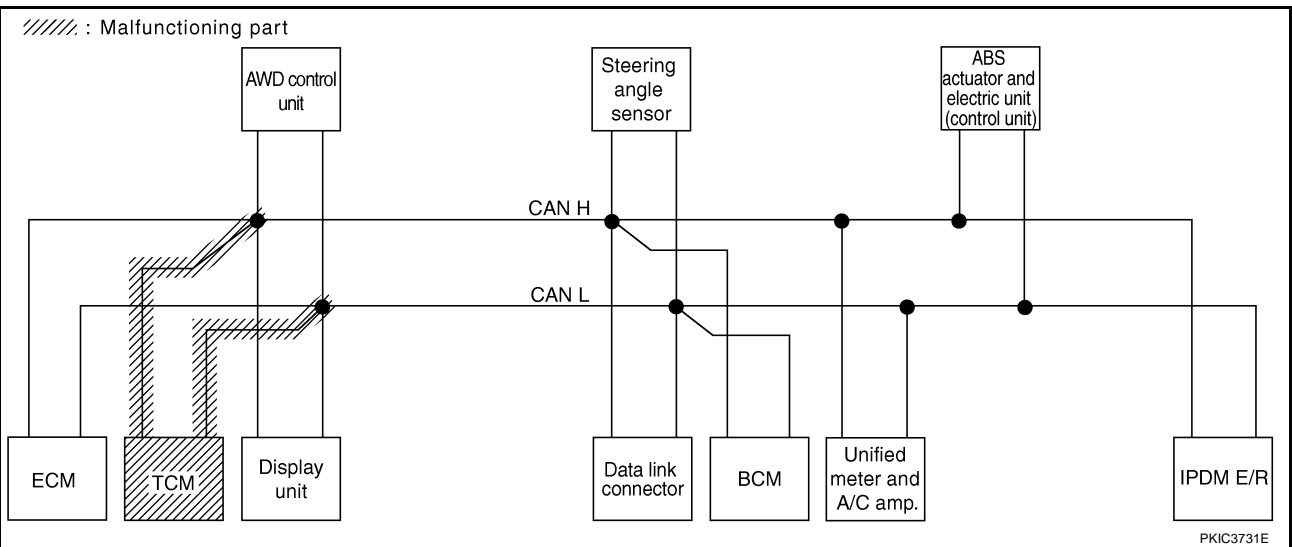
[CAN]

Case 5

Check TCM circuit. Refer to [LAN-458, "TCM Circuit Inspection"](#) .

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

PKIC3715E



PKIC3731E

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CAN SYSTEM (TYPE 10)

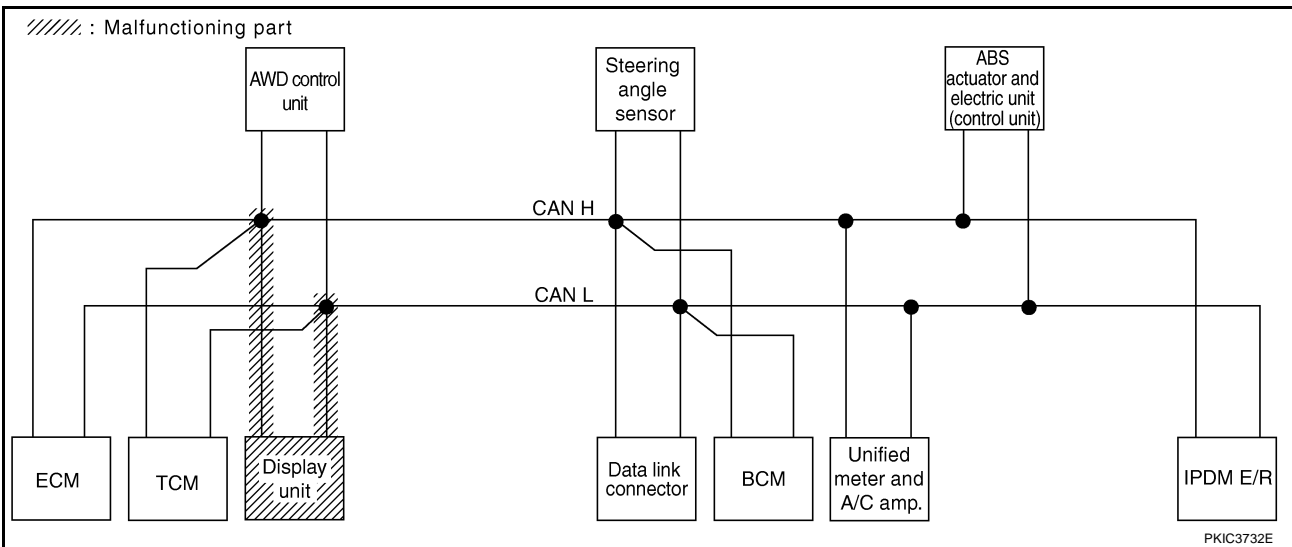
[CAN]

Case 6

Check display unit circuit. Refer to [LAN-459, "Display Unit Circuit Inspection"](#) .

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

PKIC3716E



PKIC3732E

CAN SYSTEM (TYPE 10)

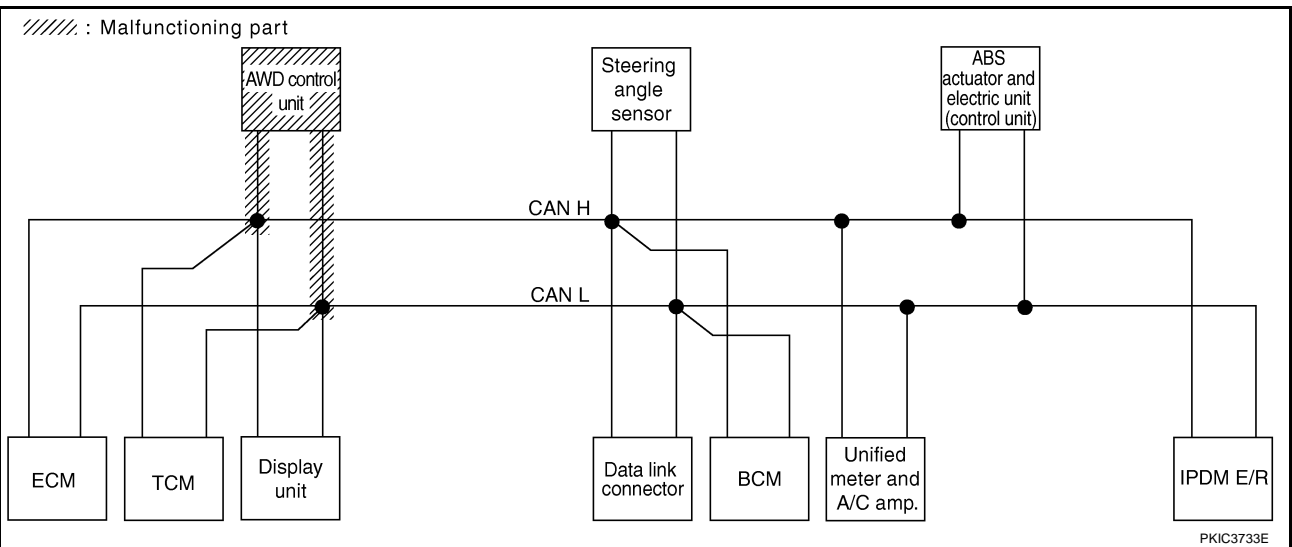
[CAN]

Case 7

Check AWD control unit circuit. Refer to [LAN-459, "AWD Control Unit Circuit Inspection"](#).

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

PKIC3717E



PKIC3733E

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CAN SYSTEM (TYPE 10)

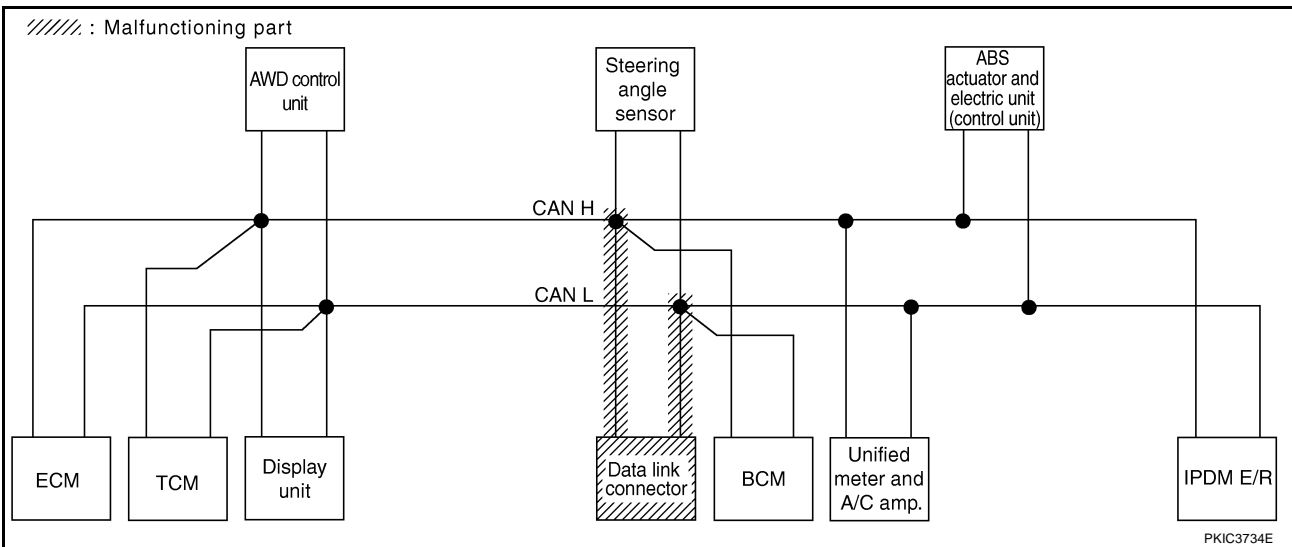
[CAN]

Case 8

Check data link connector circuit. Refer to [LAN-460, "Data Link Connector Circuit Inspection"](#) .

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

PKIC3718E



PKIC3734E

CAN SYSTEM (TYPE 10)

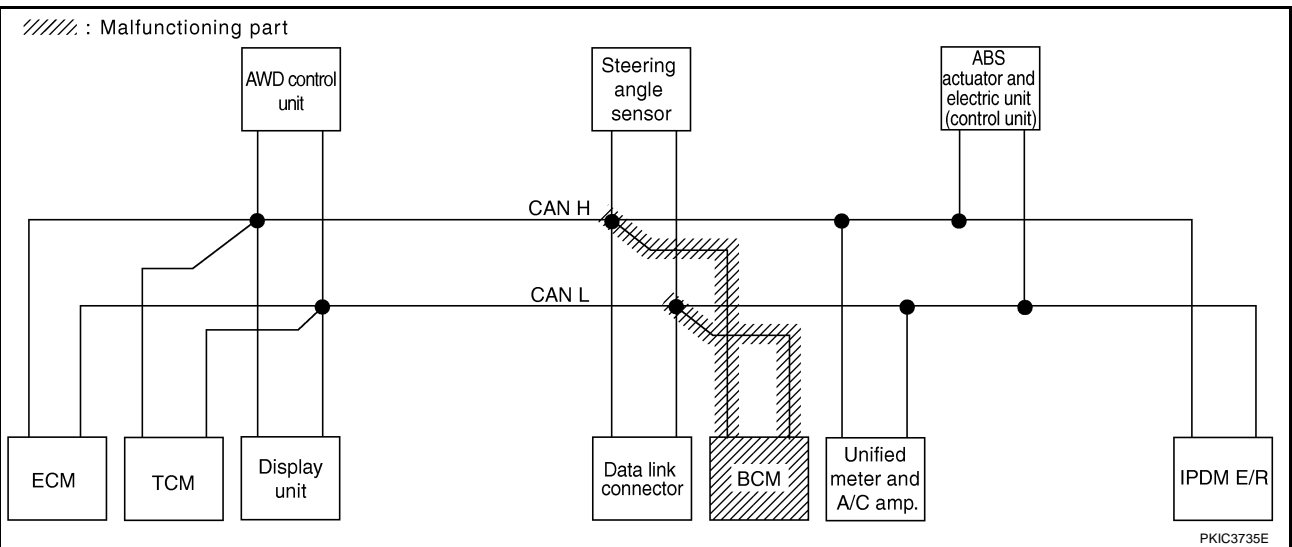
[CAN]

Case 9

Check BCM circuit. Refer to [LAN-460, "BCM Circuit Inspection"](#).

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

PKIC3719E



PKIC3735E

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CAN SYSTEM (TYPE 10)

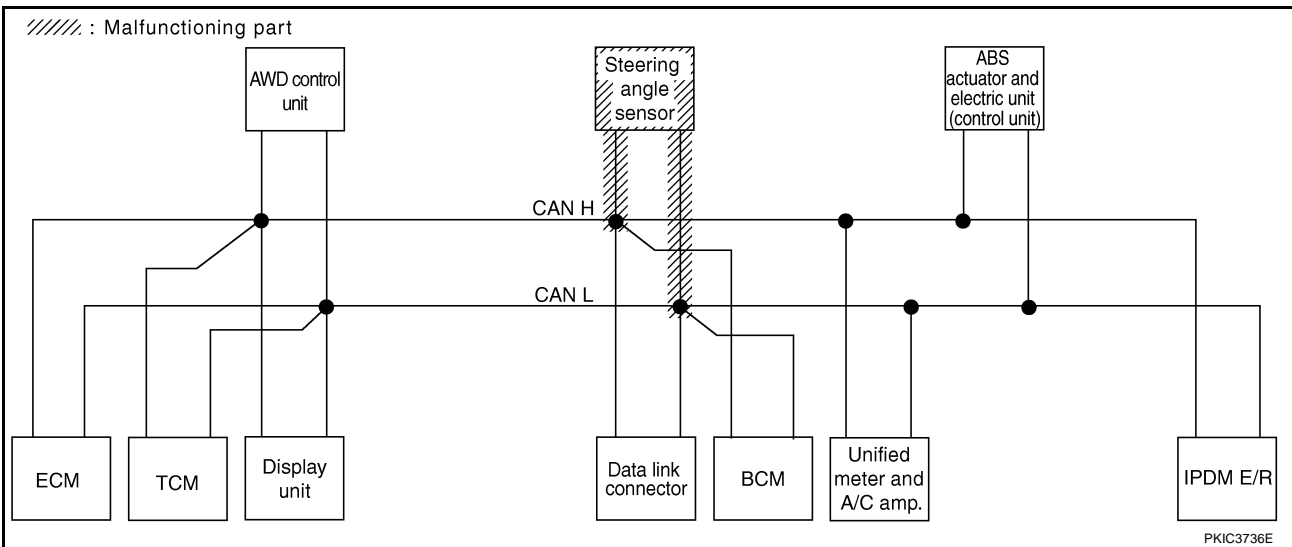
[CAN]

Case 10

Check steering angle sensor circuit. Refer to [LAN-461, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC3720E



PKIC3736E

CAN SYSTEM (TYPE 10)

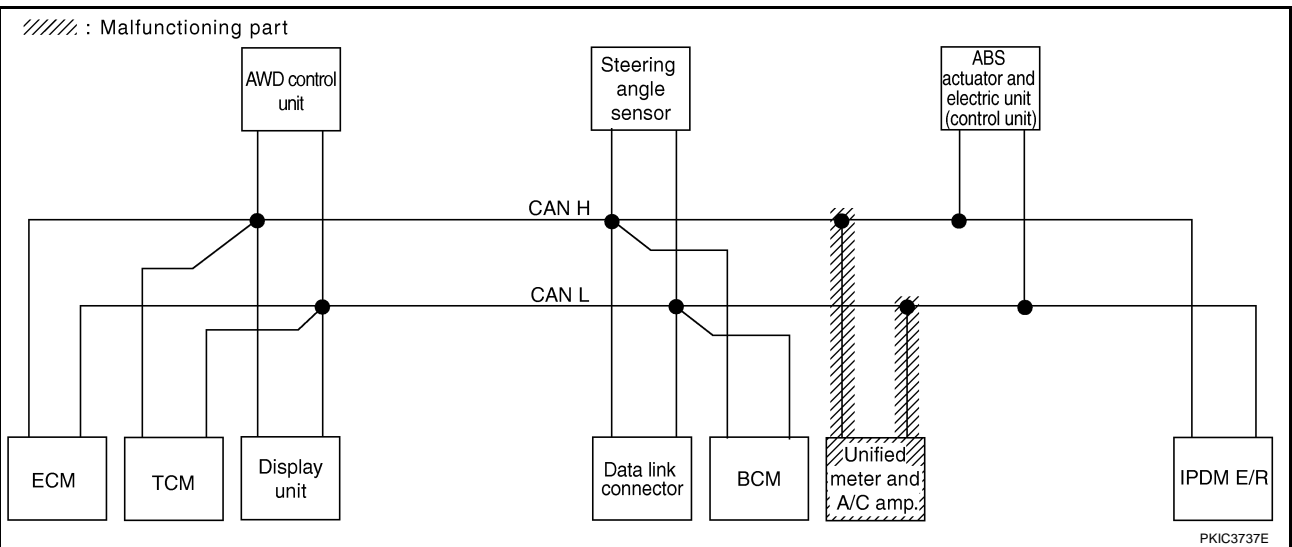
[CAN]

Case 11

Check unified meter and A/C amp. circuit. Refer to [LAN-461, "Unified Meter and A/C Amp. Circuit Inspection"](#).

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

PKIC3721E



PKIC3737E

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LAN

CAN SYSTEM (TYPE 10)

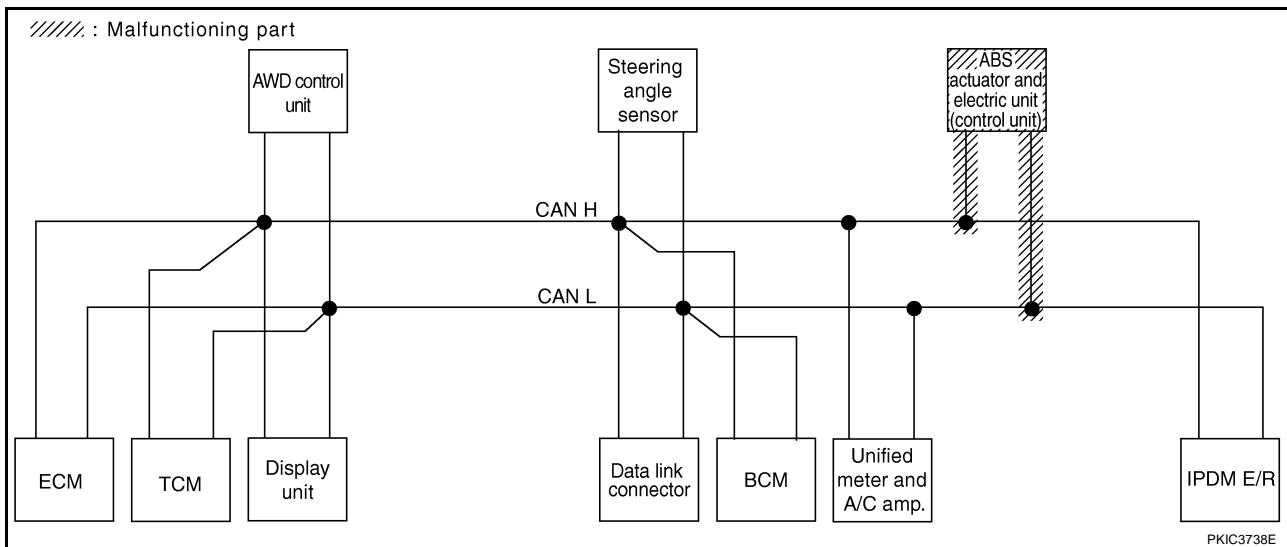
[CAN]

Case 12

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-462. "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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

PKIC3722E



PKIC3738E

CAN SYSTEM (TYPE 10)

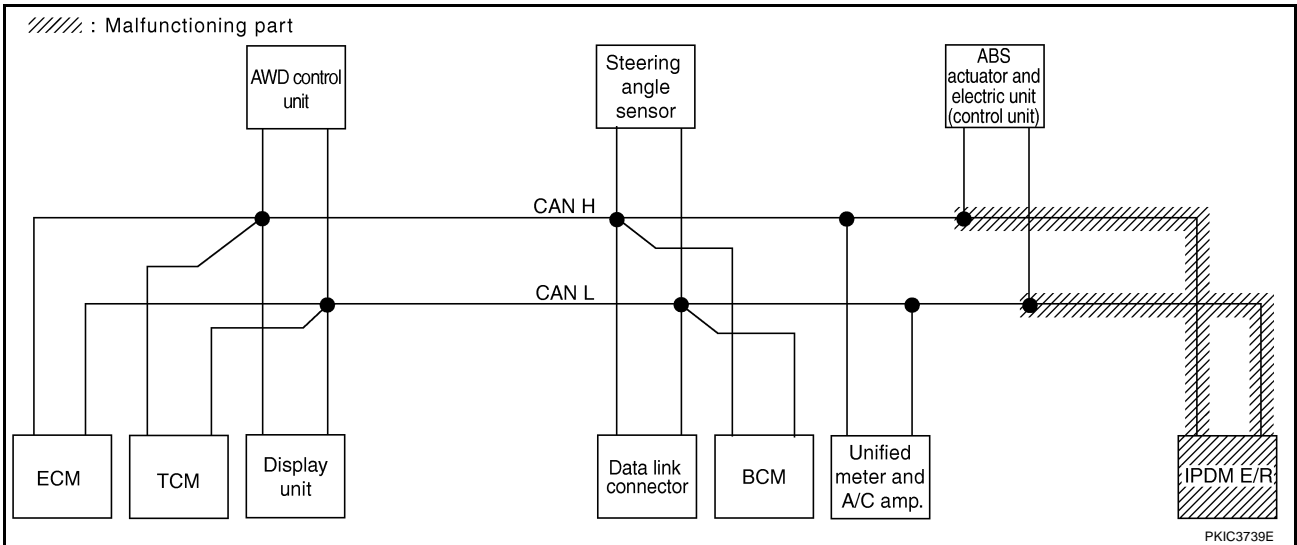
[CAN]

Case 13

Check IPDM E/R circuit. Refer to [LAN-462. "IPDM E/R Circuit Inspection"](#) .

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

PKIC3723E



PKIC3739E

CAN SYSTEM (TYPE 10)

[CAN]

Case 14

Check CAN communication circuit. Refer to [LAN-463. "CAN Communication Circuit Inspection"](#) .

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

PKIC3724E

CAN SYSTEM (TYPE 10)

[CAN]

Case 15

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-469, "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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	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)	—
Display unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3725E

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Case 16

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-469, "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	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	NG	UNKWN	—	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
Display unit	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	—	UNKWN	—	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3726E

Inspection Between TCM and Data Link Connector Circuit

AKS00FDY

1. CHECK HARNESS FOR OPEN CIRCUIT

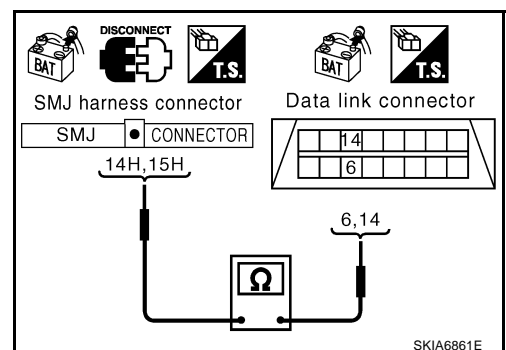
1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and harness connector M82.
4. Check continuity between harness connector M82 terminals 14H (L), 15H (R) and data link connector M5 terminals 6 (L), 14 (R).

14H (L) - 6 (L) : Continuity should exist.

15H (R) - 14 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
- NG >> Repair harness.



Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

AKS00FDZ

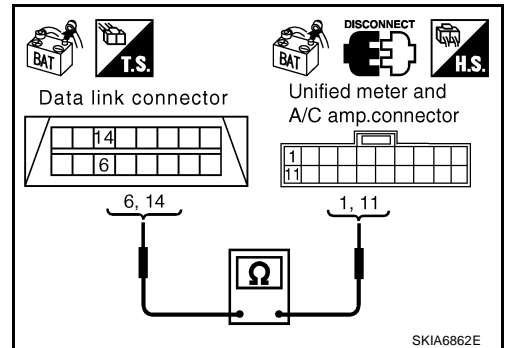
1. CHECK HARNESS FOR OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect ECM connector and unified meter and A/C amp. connector.
4. Check continuity between data link connector M5 terminals 6 (L), 14 (R) and unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R).

6 (L) - 1 (L) : Continuity should exist.
14 (R) - 11 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
- NG >> Repair harness.



Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit

AKS00FE0

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 M41
 - Harness connector E211

OK or NG

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

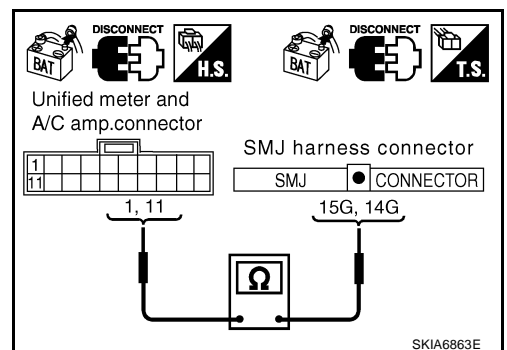
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector and harness connector M41.
2. Check continuity between unified meter and A/C amp. harness connector M55 terminals 1 (L), 11 (R) and harness connector M41 terminals 15G (L), 14G (R).

1 (L) - 15G (L) : Continuity should exist.
11 (R) - 14G (R) : Continuity should exist.

OK or NG

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



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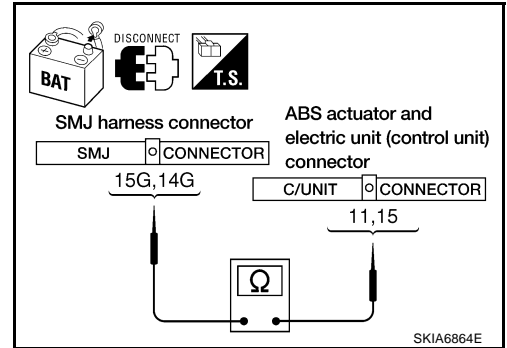
3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E211 terminals 15G (L), 14G (R) and ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R).

15G (L) - 11 (L) : Continuity should exist.
14G (R) - 15 (R) : Continuity should exist.

OK or NG

- OK >> Connect all the connectors and diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#) .
 NG >> Repair harness.



ECM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

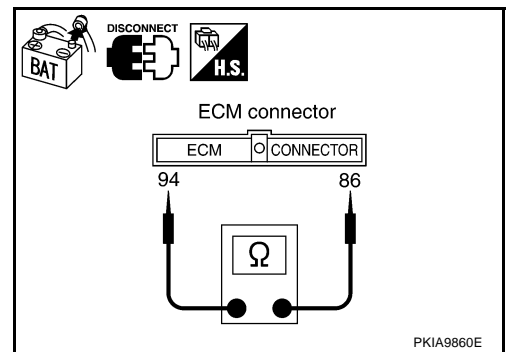
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector M90 terminals 94 (L) and 86 (R).

94 (L) - 86 (R) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM and harness connector M82.



TCM Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - A/T assembly connector
 - Harness connector F102
 - Harness connector M82

OK or NG

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

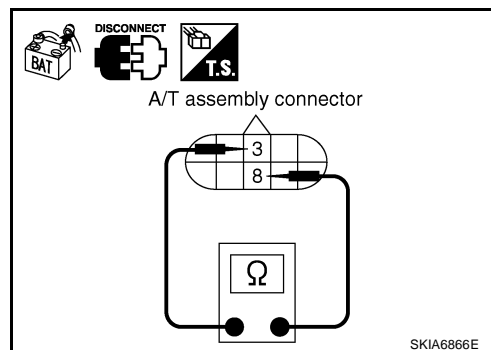
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Approx. 54 - 66Ω

OK or NG

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



AKS00FE3

Display 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 unit for damage, bend and loose connection (unit side and harness side).

OK or NG

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

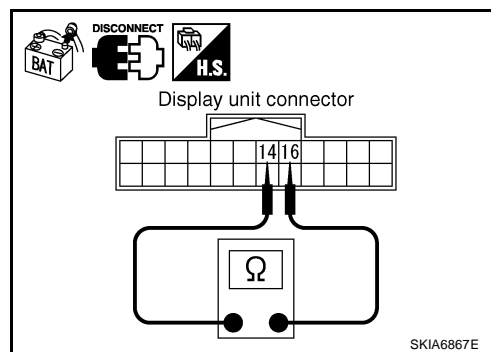
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect display unit connector.
2. Check resistance between display unit harness connector M62 terminals 14 (L) and 16 (R).

14 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit and harness connector M82.



AKS00FE4

AWD 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 AWD control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

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

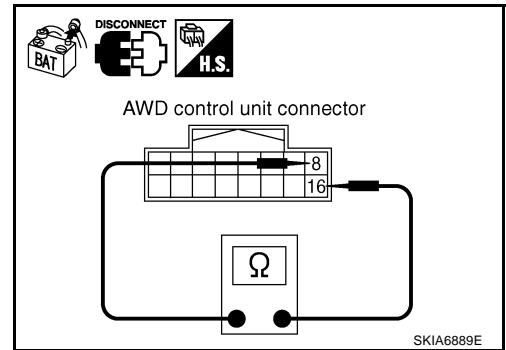
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect AWD control unit connector.
2. Check resistance between AWD control unit harness connector M92 terminals 8 (L) and 16 (R).

8 (L) - 16 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace AWD control unit.
 NG >> Repair harness between AWD control unit and harness connector M82.



AKS00FE5

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

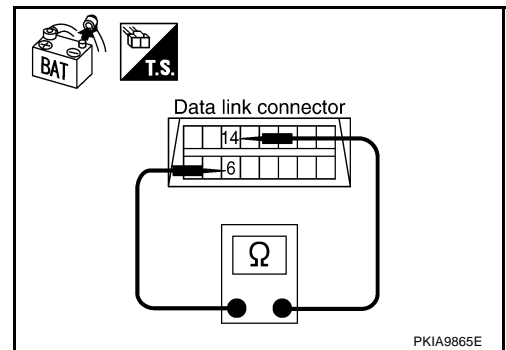
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M5 terminals 6 (L) and 14 (R).

6 (L) - 14 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-7, "TROUBLE DIAGNOSES WORK FLOW"](#).
 NG >> Repair harness between data link connector and BCM.



AKS00FE6

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.

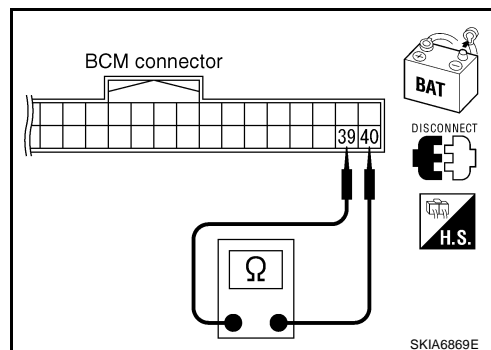
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check resistance between BCM harness connector M3 terminals 39 (L) and 40 (R).

39 (L) - 40 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-16, "Removal and Installation of BCM"](#).
- NG >> Repair harness between BCM and data link connector.



AKS00FE7

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.

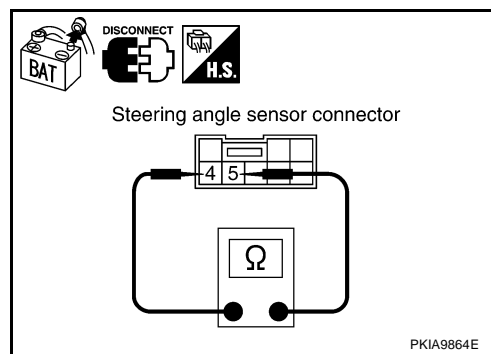
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect steering angle sensor connector.
2. Check resistance between steering angle sensor harness connector M14 terminals 4 (L) and 5 (R).

4 (L) - 5 (R) : Approx. 54 - 66Ω

OK or NG

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



AKS00FE8

Unified Meter and A/C Amp. Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

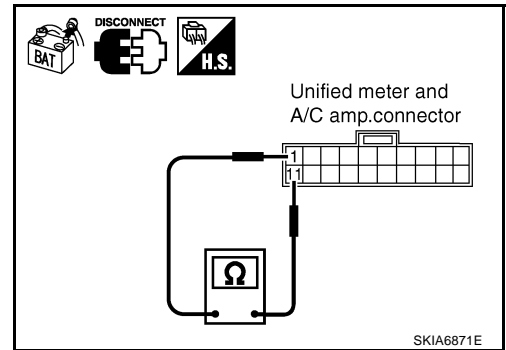
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect unified meter and A/C amp. connector.
2. Check resistance between unified meter and A/C amp. harness connector M55 terminals 1 (L) and 11 (R).

1 (L) - 11 (R) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

AKS00FE9

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.

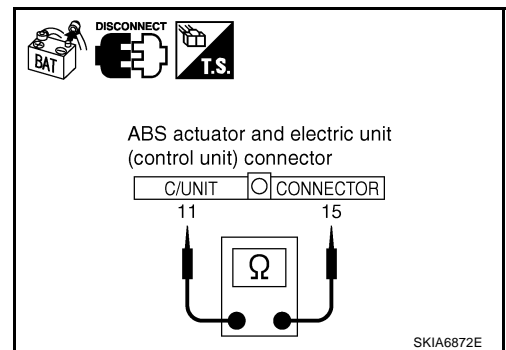
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Approx. 54 - 66Ω

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 E205.



IPDM E/R Circuit Inspection

AKS00FEA

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).
 - IPDM E/R connector
 - Harness connector E205
 - Harness connector B5

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 E9 terminals 48 (L) and 49 (R).

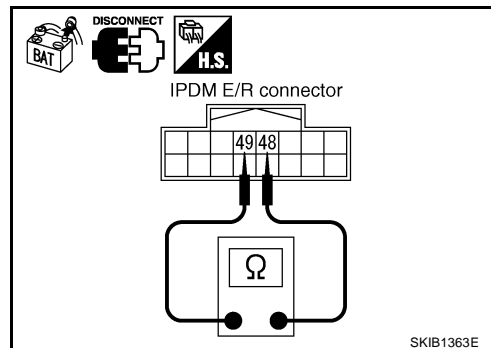
48 (L) - 49 (R)

: Approx. 108 - 132Ω

OK or NG

OK >> Replace IPDM E/R.

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



AKS00FEB

CAN Communication Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

LAN

2. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect following connectors.
 - ECM connector
 - Harness connector M82
 - Display unit connector
 - AWD control unit connector
 - BCM connector
 - Steering angle sensor connector
 - Unified meter and A/C amp. connector
 - Harness connector M41
2. Check continuity between data link connector M5 terminals 6 (L) and 14 (R).

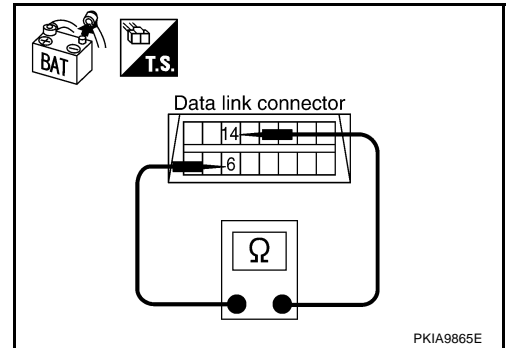
6 (L) - 14 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector M5 terminals 6 (L), 14 (R) and ground.

6 (L) - Ground : Continuity should not exist.

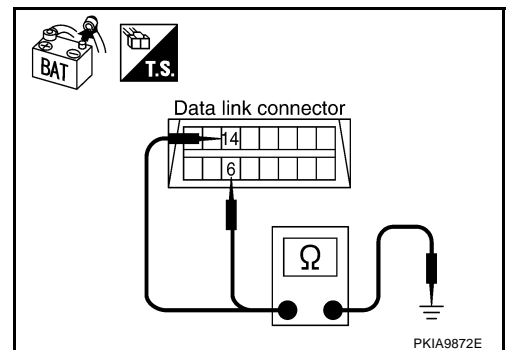
14 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

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

- Harness between data link connector and ECM
- Harness between data link connector and harness connector M82
- Harness between data link connector and display unit
- Harness between data link connector and AWD control unit
- Harness between data link connector and BCM
- Harness between data link connector and steering angle sensor
- Harness between data link connector and unified meter and A/C amp.
- Harness between data link connector and harness connector M41



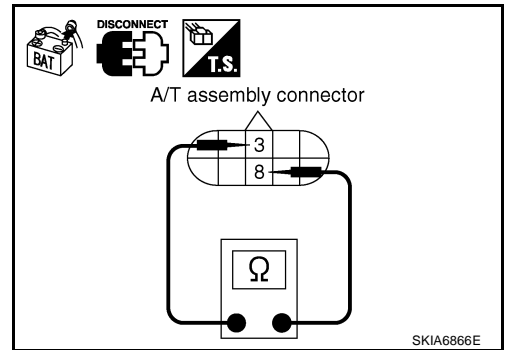
4. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect A/T assembly connector.
2. Check continuity between A/T assembly harness connector F44 terminals 3 (L) and 8 (R).

3 (L) - 8 (R) : Continuity should not exist.

OK or NG

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



5. CHECK HARNESS FOR SHORT CIRCUIT

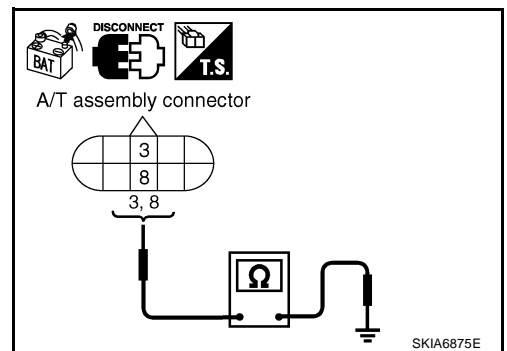
Check continuity between A/T assembly harness connector F44 terminals 3 (L), 8 (R) and ground.

3 (L) - Ground : Continuity should not exist.

8 (R) - Ground : Continuity should not exist.

OK or NG

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



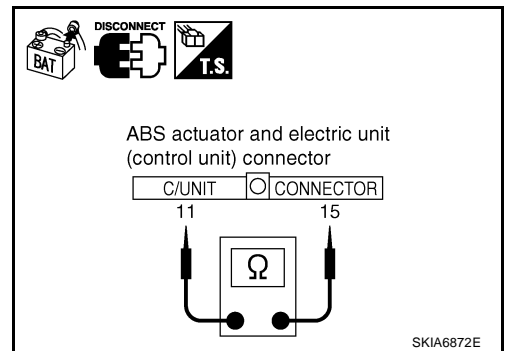
6. CHECK HARNESS FOR SHORT CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
2. Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L) and 15 (R).

11 (L) - 15 (R) : Continuity should not exist.

OK or NG

- OK >> GO TO 7.
 NG >> Check the following harnesses. If any harness is damaged, repair the harness.
- Harness between ABS actuator and electric unit (control unit) and harness connector E211
 - Harness between ABS actuator and electric unit (control unit) and harness connector E205



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7. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between ABS actuator and electric unit (control unit) harness connector E56 terminals 11 (L), 15 (R) and ground.

11 (L) - Ground : Continuity should not exist.

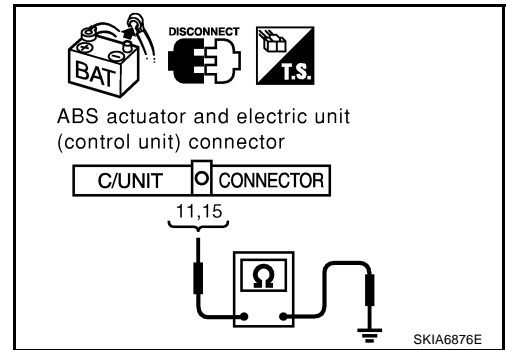
15 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 8.

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

- Harness between ABS actuator and electric unit (control unit) and harness connector E211
- Harness between ABS actuator and electric unit (control unit) and harness connector E205



8. CHECK HARNESS FOR SHORT CIRCUIT

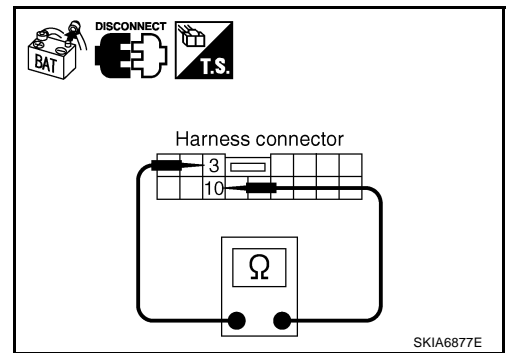
Check continuity between harness connector B5 terminals 3 (L) and 10 (R).

3 (L) - 10 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 9.

NG >> Repair harness between harness connector B5 and harness connector B5.



9. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between harness connector B5 terminals 3 (L), 10 (R) and ground.

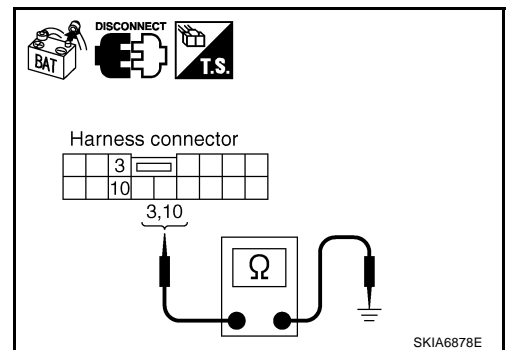
3 (L) - Ground : Continuity should not exist.

10 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 10.

NG >> Repair harness between harness connector B5 and harness connector B5.



10. CHECK HARNESS FOR SHORT CIRCUIT

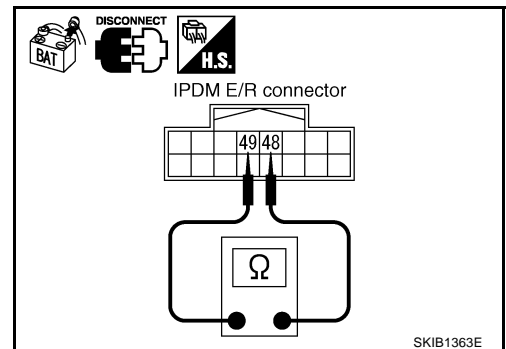
1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector E9 terminals 48 (L) and 49 (R).

48 (L) - 49 (R) : Continuity should not exist.

OK or NG

OK >> GO TO 11.

NG >> Repair harness between IPDM E/R and harness connector E205.



11. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between IPDM E/R harness connector E9 terminals 48 (L), 49 (R) and ground.

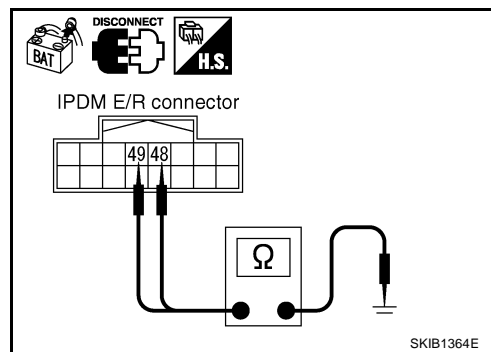
48 (L) - Ground : Continuity should not exist.

49 (R) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 12.

NG >> Repair harness between IPDM E/R and harness connector E205.



12. CHECK ECM AND IPDM E/R INTERNAL CIRCUIT

1. Remove ECM and IPDM E/R from vehicle.
2. Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω

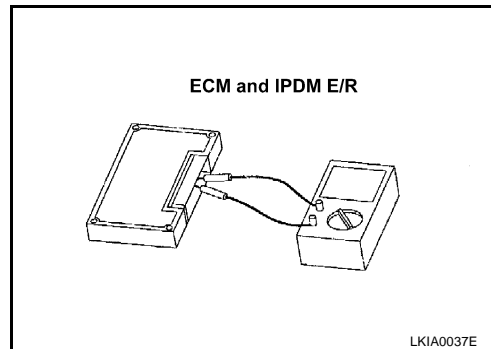
3. Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

OK or NG

OK >> GO TO 13.

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



13. 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 14.

NG >> Refer to [LAN-16, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

14. CHECK UNIT REPRODUCIBILITY

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

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

Check results

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

Not reproduced>>Replace removed unit.

IPDM E/R Ignition Relay Circuit Inspection

AKS00FEC

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-12. "IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START" "](#) .

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