

SECTION LAN

LAN SYSTEM

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PRECAUTIONS

PFP:00001

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

NKS0010F

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

NKS0010G

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

CAUTION:

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

CHECK POINTS FOR USING CONSULT-II

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

**Precautions For Trouble Diagnosis
CAN SYSTEM**

NKS0010H

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

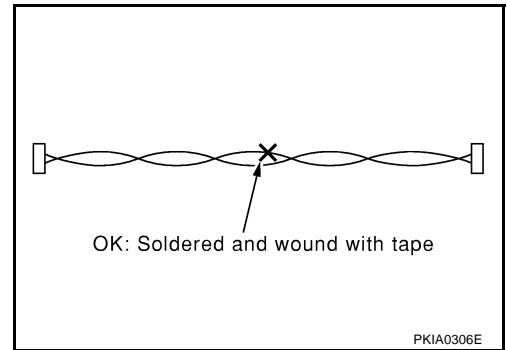
PRECAUTIONS

[CAN]

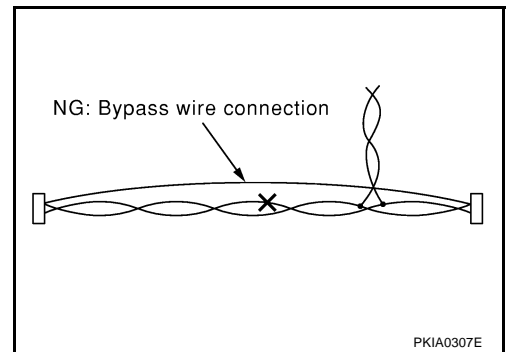
NKS00101

Precautions For Harness Repair CAN SYSTEM

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



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



TROUBLE DIAGNOSES WORK FLOW

PFP:00004

When Displaying CAN Communication System Errors

WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

NKS0010J

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

WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

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

A

B

C

D

E

F

G

H

I

J

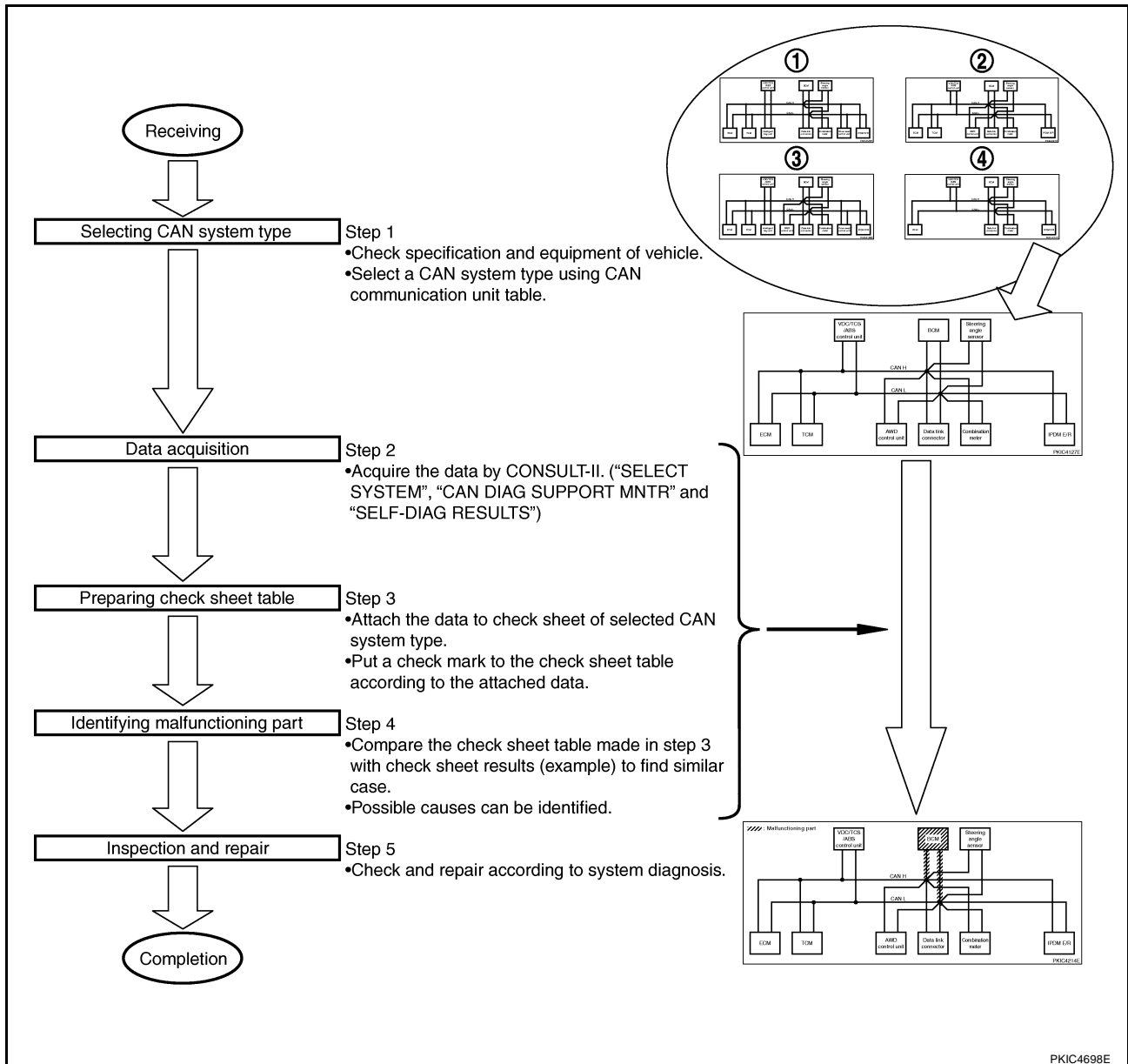
LAN

L

M

TROUBLE DIAGNOSIS FLOW CHART

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



- Step 1: Refer to [LAN-7, "SELECTING CAN SYSTEM TYPE \(HOW TO USE SPECIFICATION TABLE\)"](#) .
- Step 2: Refer to [LAN-8, "ACQUISITION OF DATA BY CONSULT-II"](#) .
- Step 3: Refer to [LAN-9, "HOW TO USE CHECK SHEET TABLE"](#) .
- Step 4: Refer to [LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- Step 5: Refer to [LAN-126, "TROUBLE DIAGNOSIS FOR SYSTEM"](#) .

TROUBLE DIAGNOSES WORK FLOW

[CAN]

NKS0010K

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.

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

LAN

(Example) Sedan/AWD/VQ35DE/AT/VDC/Without Intelligent Key system/Without automatic drive positioner

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

Body type	Sedan					
Axle	2WD			AWD		
Engine	VQ35DE					
Transmission	M/T		A/T			
Brake control	VDC					
Intelligent Key system				x		x
Automatic drive positioner		x		x		x
CAN system type	1	2	3	4	5	6
CAN system trouble diagnosis	XX-XX	XX-XX	XX-XX	XX-XX	XX-XX	XX-XX

x: Applicable

Check basic specification of the vehicle.

Select "x" if it is model with Intelligent Key system.
Select "x" if it is model with automatic drive positioner system.

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

In the case of this example:
It corresponds to type 5.

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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.

Copy "SELECT SYSTEM" screen of CONSULT-II.

SELECT SYSTEM	
ENGINE	
A/T	
ABS	
AIR BAG	
ALL MODE AWD/4WD	
IPDM E/R	
BACK	LIGHT COPY

Check sheet table

SELECT SYSTEM screen	Initial diagnosis	Repair diagnosis	CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS		
			ECM	TCM	VDC/TCS/ABS	METER/M&A	BCM/SEC	STRG	IPDM E/R	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
ENGINE	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indicator	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indicator	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-

Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

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

SELF-DIAG RESULTS	
DTC RESULTS	
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	
ERASE	PRINT
MODE BACK	LIGHT COPY

Attach copy of ENGINE SELF-DIAG RESULTS

Attach copy of A/T SELF-DIAG RESULTS

Attach copy of ABS SELF-DIAG RESULTS

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

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

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

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TROUBLE DIAGNOSES WORK FLOW

[CAN]

HOW TO USE CHECK SHEET TABLE

Use when the initial conditions are reproduced												Use when the initial conditions are not reproduced	
Check sheet table													
SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
			ECM	TCM	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	STRG	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

① ② ③ ④ ⑤

Unit that performs CAN communication diagnosis

PKIC4841E

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

NOTE:

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

- When the initial conditions are reproduced, refer to [LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- When the initial conditions are not reproduced, refer to [LAN-13, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#) .

TROUBLE DIAGNOSES WORK FLOW

[CAN]

Example of Filling in Check Sheet When Initial Conditions Are Reproduced

CAN DIAG SUPPORT MNTR

ENGINE		
	PRSNT	PAST
TRANSMIT DIAG	OK	OK
VDC/TCS/ABS	OK	OK
METER/M&A	OK	OK
BCM/SEC	UNKWN	0
ICC	-	-
HVAC	-	-
TCM	OK	OK
EPS	-	-
IPDM E/R	OK	OK
PRINT		
MODE	BACK	Scroll Down

CAN DIAG SUPPORT MNTR

ENGINE		
	PRSNT	PAST
METER/M&A	OK	OK
BCM/SEC	UNKWN	0
ICC	-	-
HVAC	-	-
TCM	OK	OK
EPS	-	-
IPDM E/R	OK	OK
e4WD	-	-
PRINT		
MODE	BACK	Scroll Up

Check sheet table

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

SELECT SYSTEM

ENGINE		
A/T		
ABS		
AIR BAG		
ALL MODE AWD/4WD		
IPDM E/R		
BACK	LIGHT	COPY

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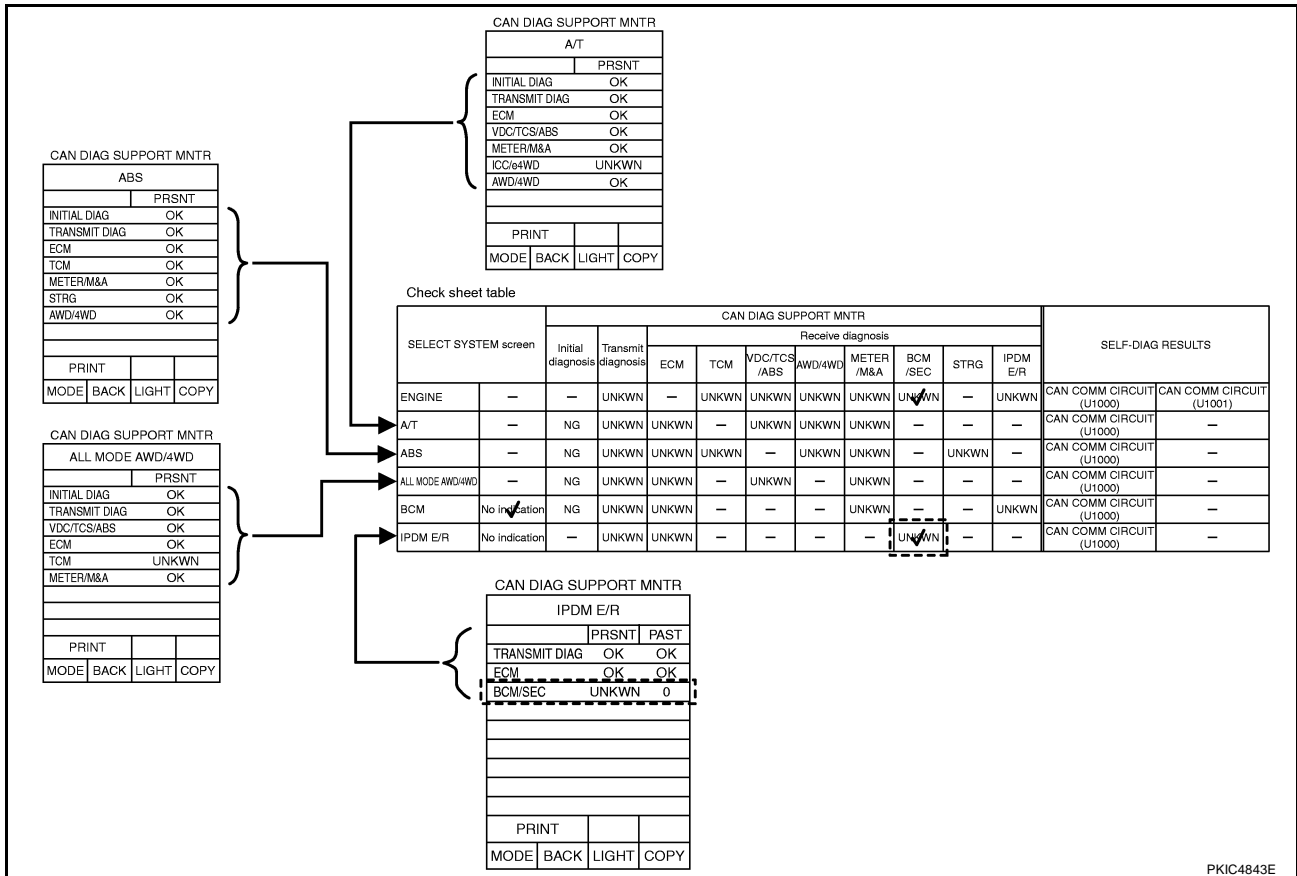
1. Put a check mark to "No indication" if some of unit names listed on the column of diagnosis system selection screen of a check sheet table are not displayed on "SELECT SYSTEM" screen attached to the check sheet.

NOTE:
Put a check mark to "No indication" of BCM because BCM is not displayed on "SELECT SYSTEM" screen.
2. Confirm the unit name that "UNKWN" is displayed from the copy of "CAN DIAG SUPPORT MNTR" screen of "ENGINE" attached to the check sheet, and then put a check mark to the check sheet table.

NOTE:
In "CAN DIAG SUPPORT MNTR" screen, "UNKWN" is displayed on "BCM/SEC". Put a check mark to it.

TROUBLE DIAGNOSES WORK FLOW

[CAN]



3. Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "A/T", "ABS", "ALL MODE AWD/4WD" and "IPDM E/R" as well as "ENGINE". And then, put a check mark to the check sheet table.

NOTE:

- For "A/T", "UNKWN" is displayed on "ICC/e4WD". But, do not put a check mark to their columns of reception diagnosis of the check sheet table because "UNKWN" is not listed.
- For "ABS", "UNKWN" is not displayed. Do not put a check to it.
- For "ALL MODE AWD/4WD", "UNKWN" is displayed on "TCM". But, do not put a check mark to their columns of reception diagnosis of the check sheet table because "UNKWN" is not listed.
- For "IPDM E/R", "UNKWN" is displayed on "BCM/SEC". Put a check mark to it.

TROUBLE DIAGNOSES WORK FLOW

[CAN]

The arranged results of CAN diagnosis support monitor

Check sheet table

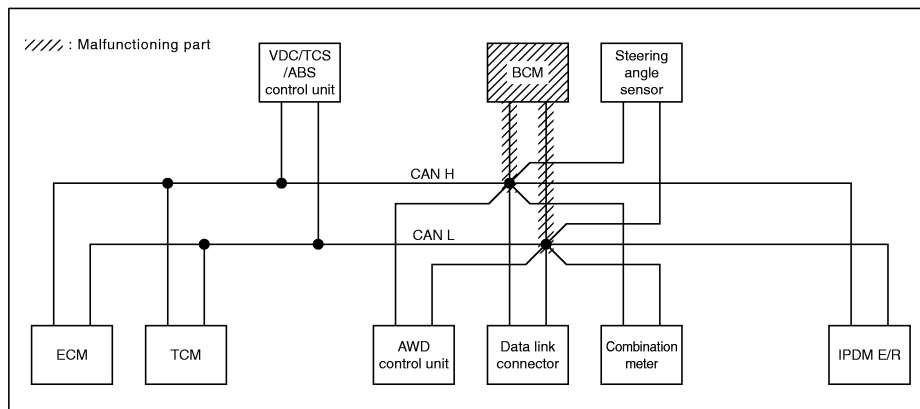
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R		
				ECM	TCM	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	STRG			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM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

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

Case 9
Check BCM circuit.

Check sheet results (example)

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



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NOTE:

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

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

Start CAN system trouble diagnosis if this procedure can be confirmed. Refer to [LAN-27, "CAN Communication Unit"](#).

TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

Check sheet table

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

NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.

SYSTEM ABS

SELF-DIAG RESULTS

DTC RESULTS TIME

NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED

SYSTEM ALL MODE AWD/4WD

SELF-DIAG RESULTS

DTC RESULTS TIME

NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.

SYSTEM BCM

SELF-DIAG RESULTS

DTC RESULTS TIME

NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.

SYSTEM IPDM E/R

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT [U1000] PAST

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

NOTE:

- For "ENGINE", "CAN COMM CIRCUIT [U1001]" is displayed. Put a check mark to it.
- For "A/T", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "ABS", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "ALL MODE AWD/4WD", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "BCM", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "IPDM E/R", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.

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

LAN

TROUBLE DIAGNOSES WORK FLOW

[CAN]

The arranged results of self-diagnosis

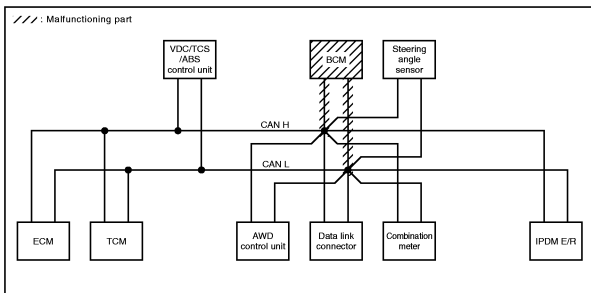
Check sheet table

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS		
			Receive diagnosis											
			ECM	TCM	VDC/TCS /ABS	AWD/4WD	METER /MA	BCM /SEC	STRG	IPDM E/R				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT [U1000]	-
ALLMOB/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT [U1000]	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	-	UNKWN	-	-	CAN COMM CIRCUIT [U1000]	-

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

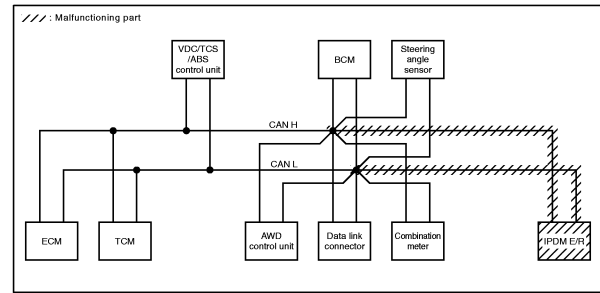
Case 9
Check BCM circuit.

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS		
			Receive diagnosis											
			ECM	TCM	VDC/TCS /ABS	AWD/4WD	METER /MA	BCM /SEC	STRG	IPDM E/R				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT [U1000]	-
ALLMOB/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT [U1000]	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT [U1000]	-



Case 11
Check IPDM E/R circuit.

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS		
			Receive diagnosis											
			ECM	TCM	VDC/TCS /ABS	AWD/4WD	METER /MA	BCM /SEC	STRG	IPDM E/R				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT [U1000]	CAN COMM CIRCUIT [U1000]
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT [U1000]	-
ALLMOB/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT [U1000]	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT [U1000]	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT [U1000]	-



PKIC4846E

NOTE:

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

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

NKS0010L

CAN Diagnostic Support Monitor

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ECM

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

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

Display Results (Present)

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

Display Results (Past)

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

LAN

TROUBLE DIAGNOSES WORK FLOW

[CAN]

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TCM

(Example)

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

SKIB2335E

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

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 SYS-TEM” 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 combination meter.	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.

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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TROUBLE DIAGNOSES WORK FLOW

[CAN]

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR VDC/TCS/ABS CONTROL UNIT

AWD models

(Example)

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

SKIB2336E

“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	Make sure of normal reception from combination meter.	OK/UNKWN
	STRG	Make sure of normal reception from steering angle sensor.	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.

2WD models

(Example)

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

PKIB8720E

“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	Make sure of normal reception from combination meter.	OK/UNKWN
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN
	ICC	ICC is not diagnosed.	UNKWN

Display Results (Present)

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

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	UNKWN		
METER/M&A	OK		
PRINT			
MODE	BACK	LIGHT	COPY

PKIA8948E

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

(Example)

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

SKIB1625E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
BCM	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN
	I-KEY	Make sure of normal reception from Intelligent Key unit.	OK/UNKWN

Display Results (Present)

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

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CAN COMMUNICATION

PFP:23710

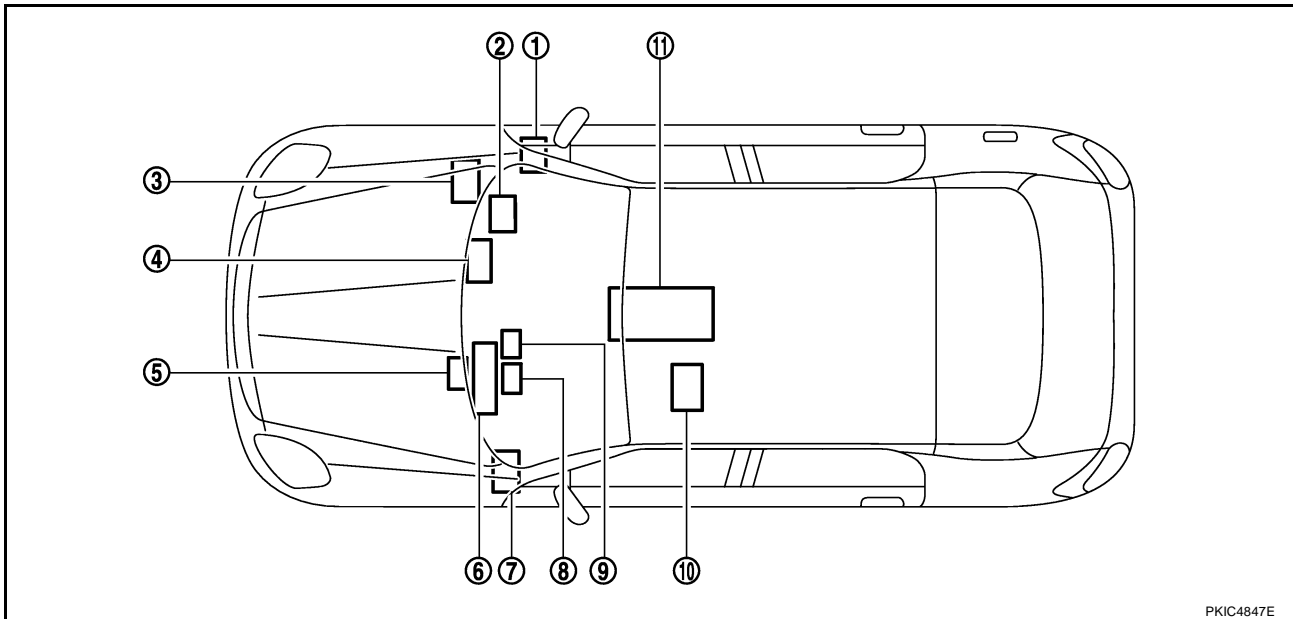
System Description

NKS0010M

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

Component Parts and Harness Connector Location

NKS0027A



PKIC4847E

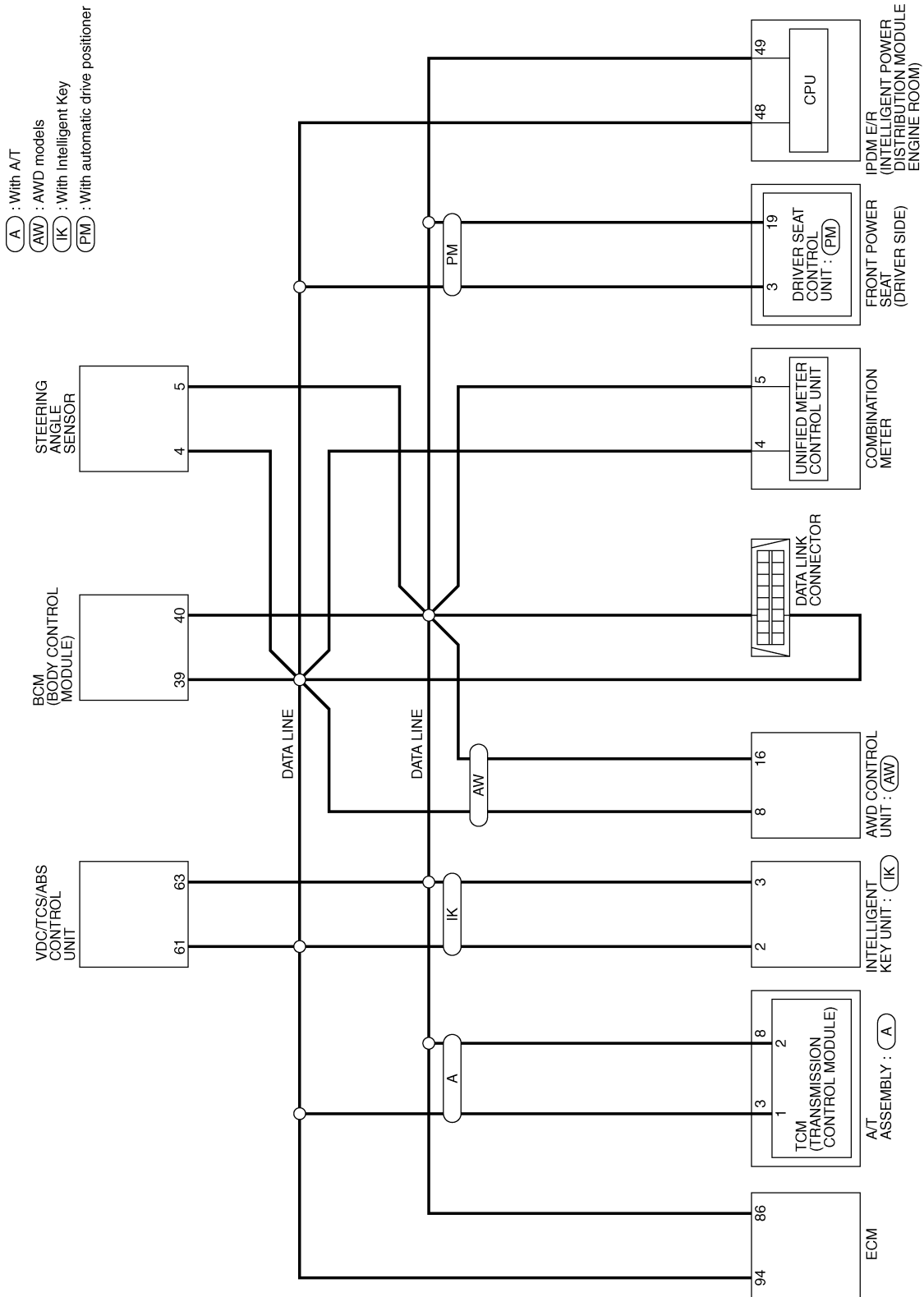
- | | | |
|---|---|---------------------------|
| 1. VDC/TCS/ABS control unit M93 | 2. Intelligent Key unit M75 (with Intelligent Key system) | 3. IPDM E/R E9 |
| 4. ECM F108 | 5. AWD control unit M10 (AWD models) | 6. Combination meter M19 |
| 7. BCM M1 | 8. Steering angle sensor M22 | 9. Data link connector M8 |
| 10. Driver seat control unit B324 (with automatic drive positioner) | 11. A/T assembly F42 (with A/T) | |

CAN COMMUNICATION

[CAN]

Schematic

NKS0027B



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TKWM3407E

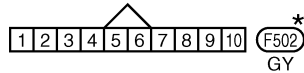
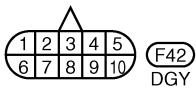
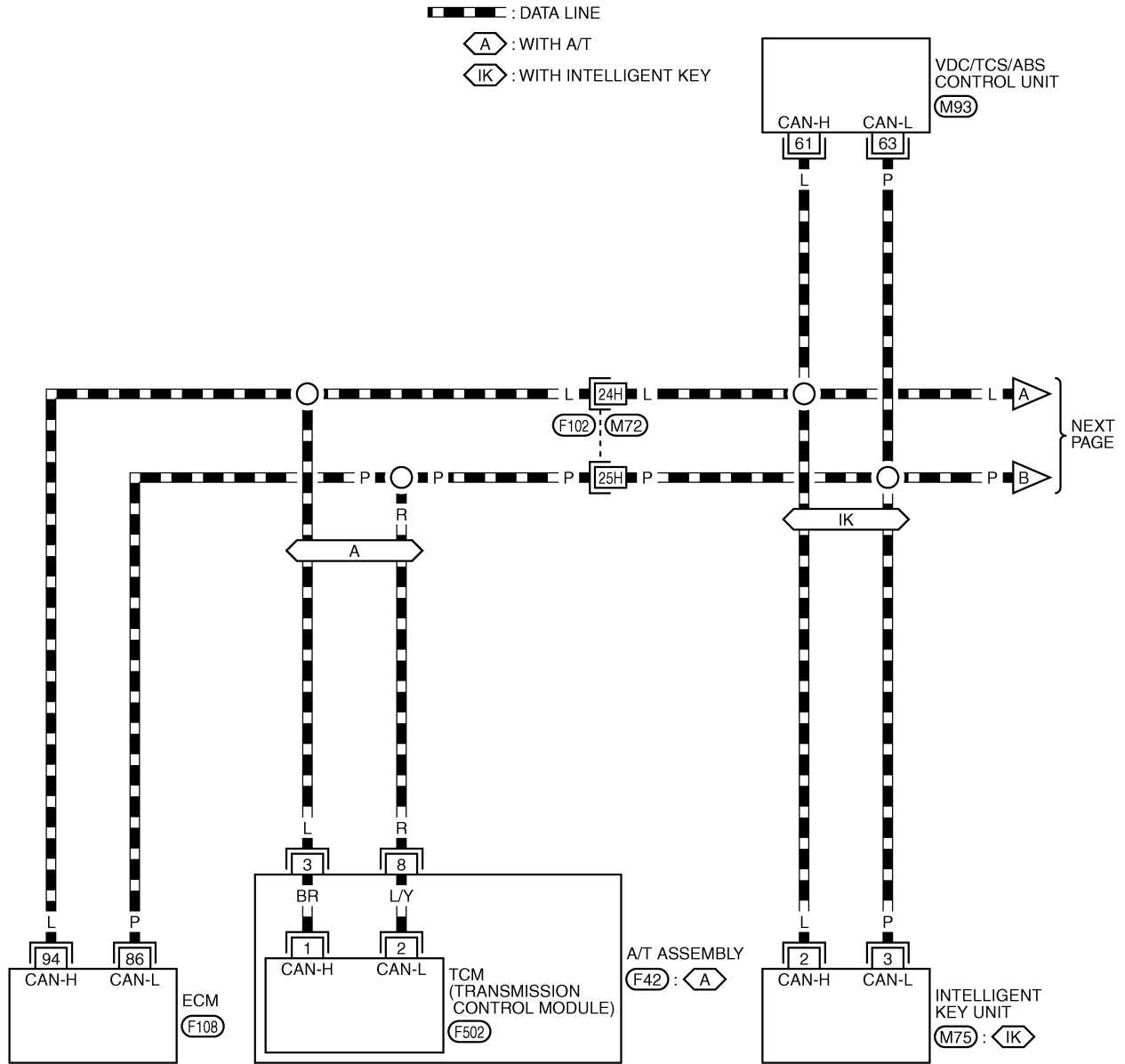
CAN COMMUNICATION

[CAN]

NKS0027C

Wiring Diagram — CAN —

LAN-CAN-01



REFER TO THE FOLLOWING.

F102 -SUPER MULTIPLE JUNCTION (SMJ)

M75, M93, F108 -ELECTRICAL UNITS

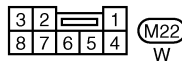
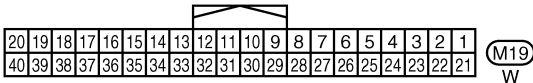
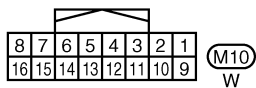
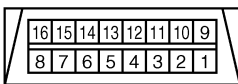
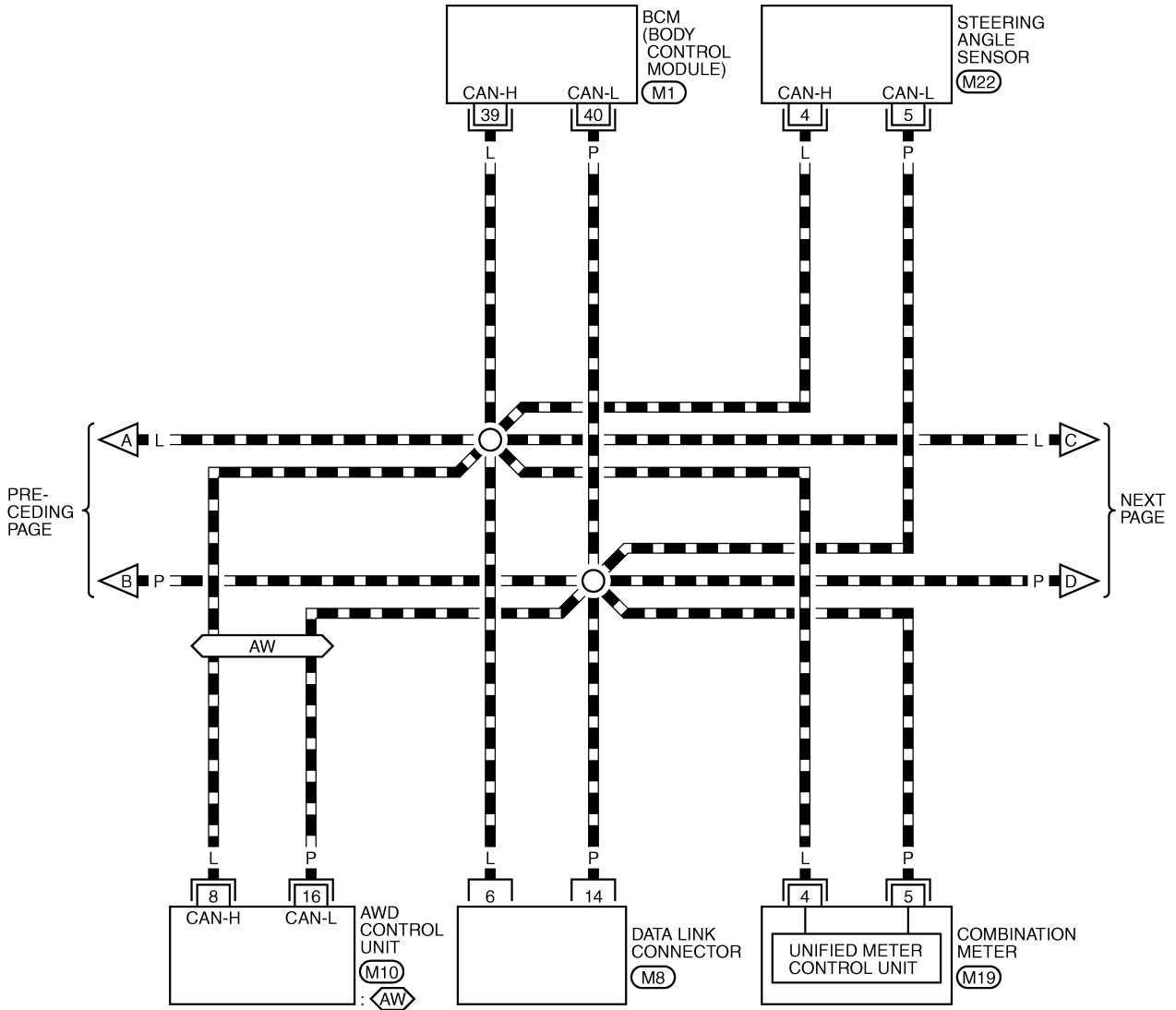
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWM3408E

LAN-CAN-02

▬ : DATA LINE

AW : AWD MODELS



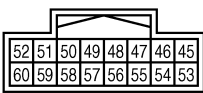
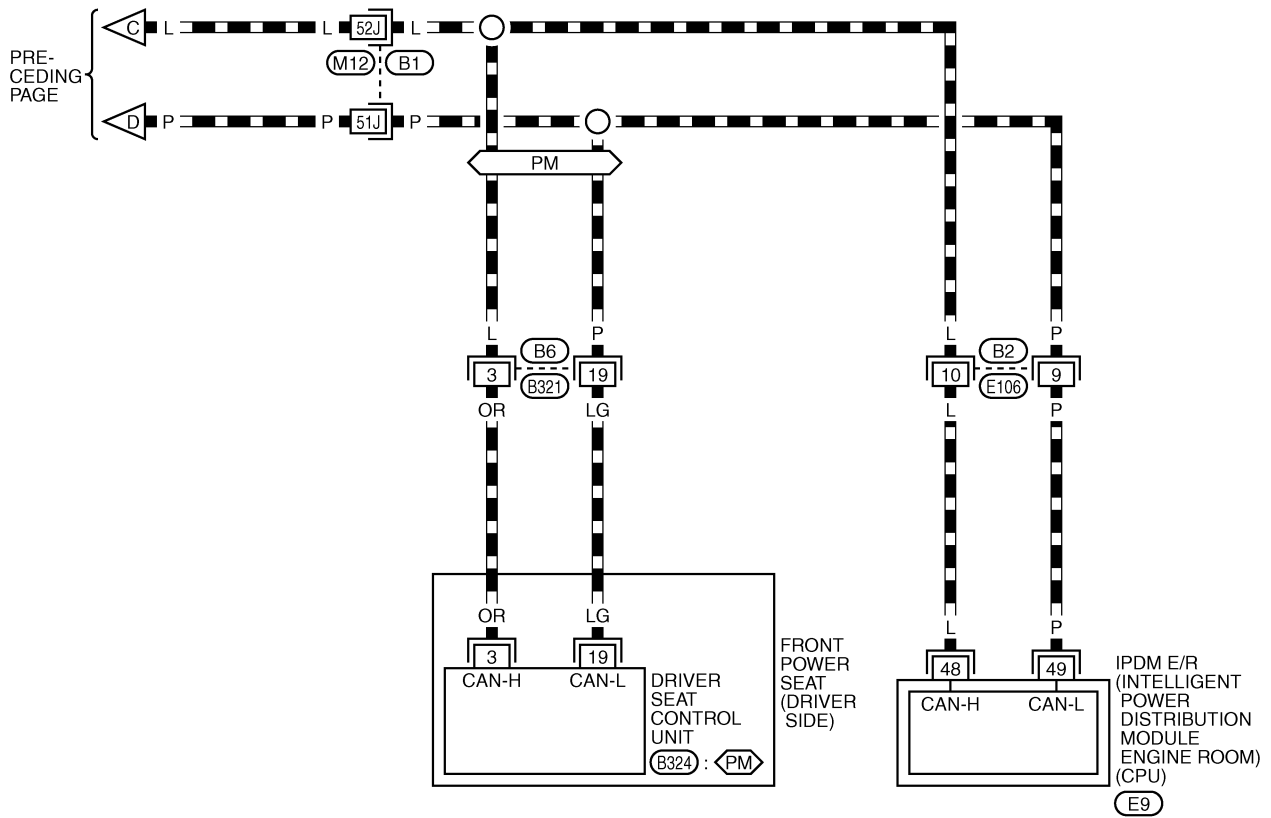
REFER TO THE FOLLOWING.

M1 -ELECTRICAL UNITS

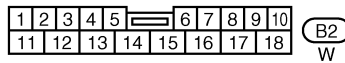
LAN-CAN-03

▬ : DATA LINE

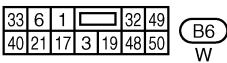
◻(PM) : WITH AUTOMATIC DRIVE POSITIONER



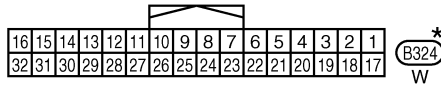
E9
W



B2
W



B6
W



B324
W

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

REFER TO THE FOLLOWING.

◻(B1) -SUPER MULTIPLE JUNCTION (SMJ)

CAN COMMUNICATION

[CAN]

NKS0010N

CAN Communication Unit

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

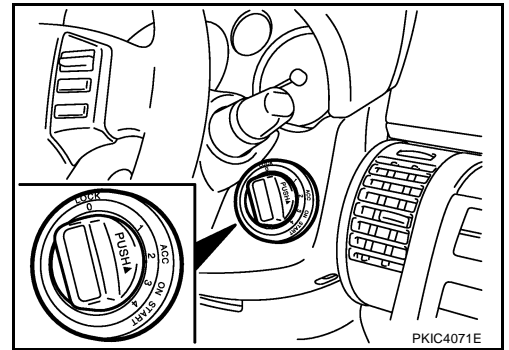
Body type	Sedan					
Axle	2WD			AWD		
Engine	VQ35DE					
Transmission	M/T			A/T		
Brake control	VDC					
Intelligent Key system				×		×
Automatic drive positioner		×		×		×
CAN system type	1	2	3	4	5	6
CAN system trouble diagnosis	LAN-36	LAN-48	LAN-62	LAN-76	LAN-93	LAN-108

×: Applicable

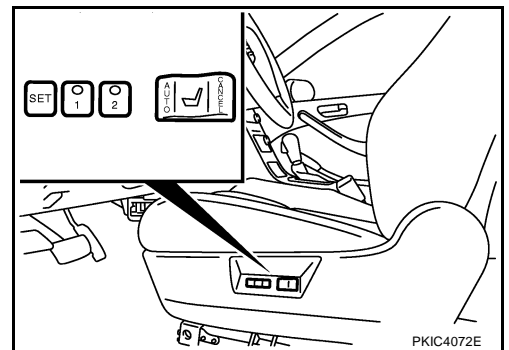
NOTE:

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

- Models with Intelligent Key system



- Models with automatic drive positioner



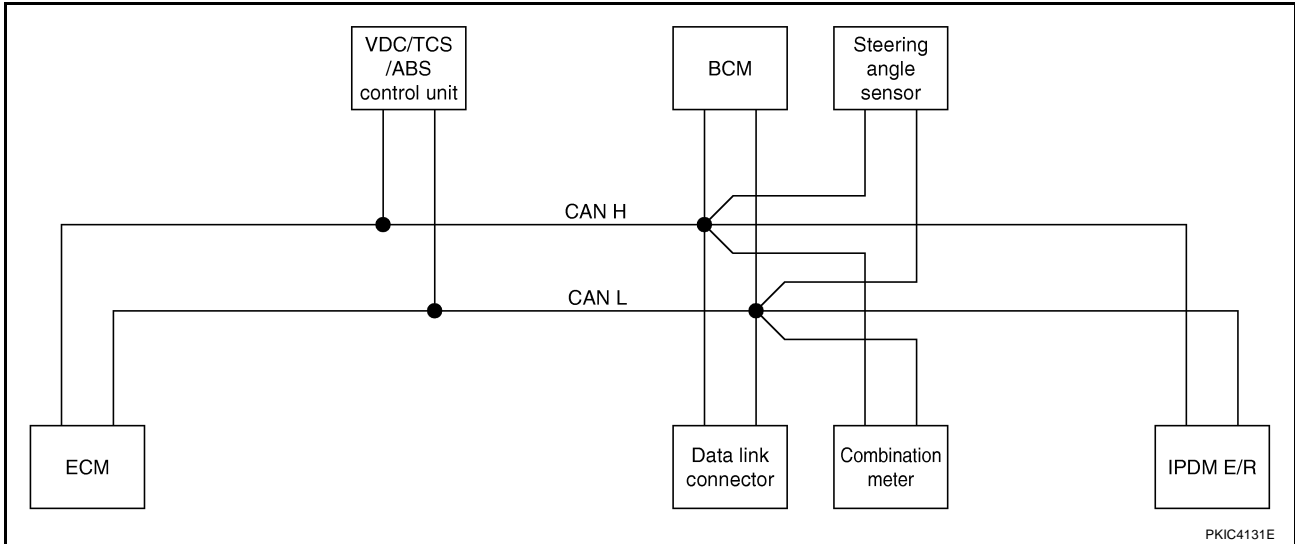
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CAN COMMUNICATION

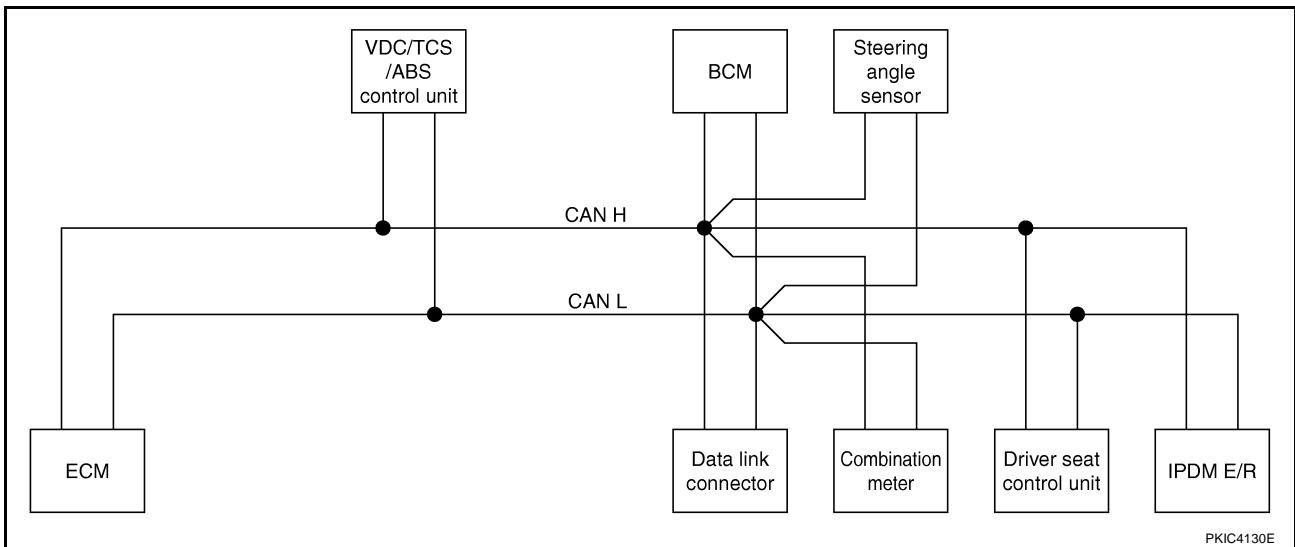
[CAN]

TYPE 1/TYPE 2 System Diagram

- Type 1



- Type 2



Input/output Signal Chart

T: Transmit R: Receive

Signals	ECM	VDC/TCS/ABS control unit	Combination meter	BCM	Steering angle sensor	Driver seat control unit*	IPDM E/R
A/C compressor request signal	T						R
Accelerator pedal position signal	T	R					
ASCD CRUISE lamp signal	T		R				
ASCD SET lamp signal	T		R				
Cooling fan motor operation signal	T						R

CAN COMMUNICATION

[CAN]

Signals	ECM	VDC/TCS/ABS control unit	Combination meter	BCM	Steering angle sensor	Driver seat control unit*	IPDM E/R
Engine coolant temperature signal	T		R				
Engine speed signal	T	R	R				
Malfunction indicator lamp signal	T		R				
Vehicle speed signal		T	R				
	R		T	R		R	
Fuel level sensor signal	R		T				
Seat belt buckle switch signal			T	R			
A/C switch signal	R			T			
Blower fan motor switch signal	R			T			
Buzzer output signal			R	T			
Door switch signal			R	T		R	R
Front fog lights request signal				T			R
Front wiper request signal				T			R
High beam request signal			R	T			R
High beam status signal	R						T
Horn chirp signal				T			R
Key fob door unlock signal				T		R	
Key switch signal				T		R	
Low beam request signal				T			R
Low beam status signal	R						T
Position lights request signal			R	T			R
Rear window defogger switch signal				T			R
Rear window defogger control signal	R						T
Sleep request 1 signal			R	T			
Sleep request 2 signal				T			R
Theft warning horn request signal				T			R
Tire pressure signal			R	T			
Turn indicator signal			R	T			
Wake up request 1 signal				T			R
Wake up request 2 signal				T			R
Steering angle sensor signal		R			T		
Front wiper stop position signal				R			T
Hood switch signal				R			T
Oil pressure switch signal			R				T

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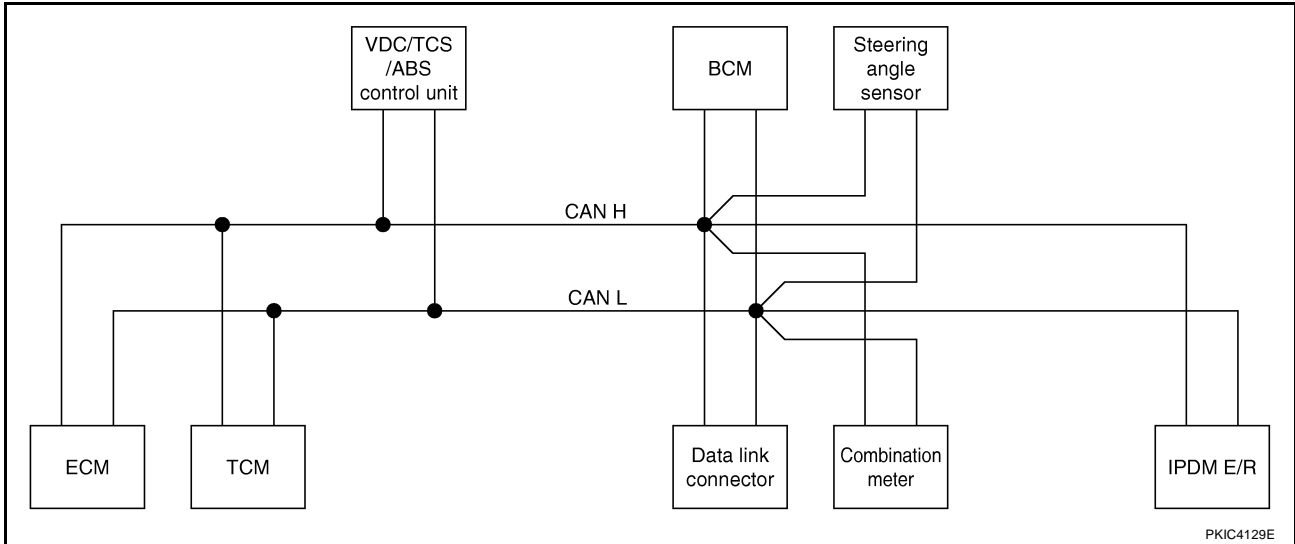
*: with automatic drive positioner models only

CAN COMMUNICATION

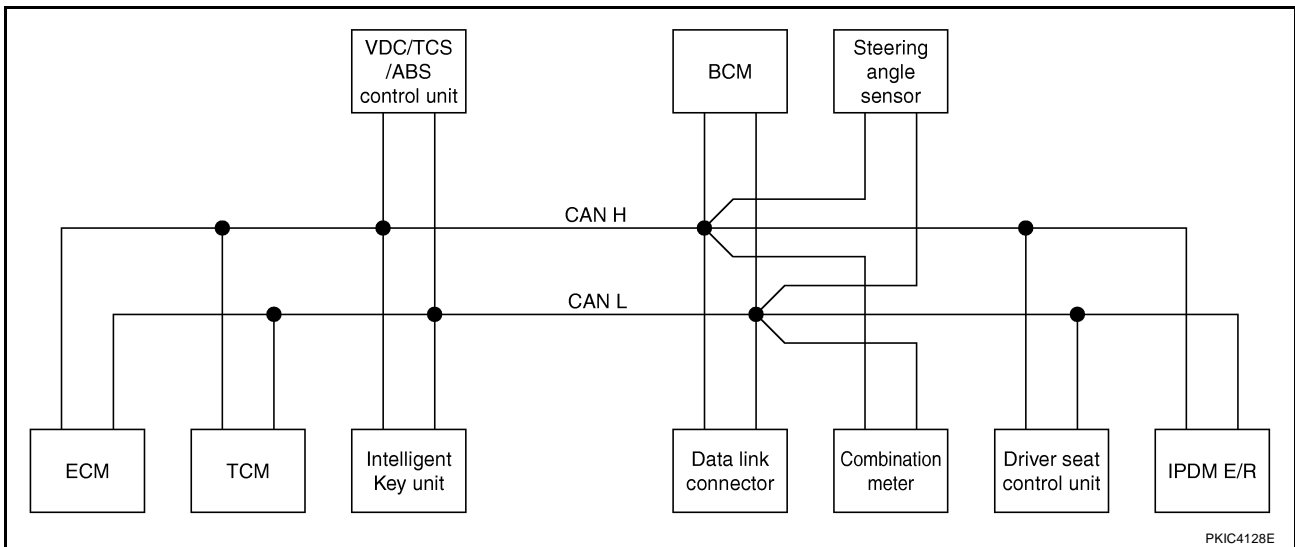
[CAN]

TYPE 3/TYPE 4 System Diagram

- Type 3



- Type 4



Input/output Signal Chart

T: Transmit R: Receive

Signals	ECM	TCM	Intelligent Key unit ^{*1}	VDC/TCS/ABS control unit	Combination meter	BCM	Steering angle sensor	Driver seat control unit ^{*2}	IPDM E/R
A/C compressor request signal	T								R
Accelerator pedal position signal	T	R		R					
ASCD CRUISE lamp signal	T				R				
ASCD OD cancel request signal	T	R							
ASCD operation signal	T	R							
ASCD SET lamp signal	T				R				

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Intelligent Key unit*1	VDC/TCS/ABS control unit	Combination meter	BCM	Steering angle sensor	Driver seat control unit*2	IPDM E/R
Battery voltage signal	T	R							
Closed throttle position signal	T	R							
Cooling fan motor operation signal	T								R
Engine coolant temperature signal	T				R				
Engine speed signal	T	R	R	R	R				
Malfunction indicator lamp signal	T				R				
Wide open throttle position signal	T	R							
A/T CHECK indicator lamp signal		T			R				
A/T position indicator signal		T		R	R			R*3	
A/T self-diagnosis signal	R	T							
Manual mode indicator signal		T			R				
Output shaft revolution signal	R	T							
Turbine revolution signal	R	T							
Door lock/unlock/trunk open request signal			T			R			
Hazard and horn request signal			T			R			
Panic alarm request signal			T			R			
Power window open request signal			T			R			
A/T shift schedule change demand signal		R		T					
Vehicle speed signal				T	R				
	R	R	R		T	R		R	
Fuel level sensor signal	R				T				
Manual mode shift down signal		R			T				
Manual mode shift up signal		R			T				
Manual mode signal		R			T				
Not manual mode signal		R			T				
Seat belt buckle switch signal					T	R			
Snow mode switch signal	R				T				
Stop lamp switch signal		R			T				
A/C switch signal	R					T			
Blower fan motor switch signal	R					T			
Buzzer output signal					R	T			
Door lock/unlock status signal			R			T			
Door switch signal			R		R	T		R	R
Front fog lights request signal						T			R
Front wiper request signal						T			R
High beam request signal					R	T			R
High beam status signal	R								T
Horn chirp signal						T			R

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Intelligent Key unit*1	VDC/TCS/ABS control unit	Combination meter	BCM	Steering angle sensor	Driver seat control unit*2	IPDM E/R
Key fob door unlock signal						T		R	
Key switch signal						T		R	
Low beam request signal						T			R
Low beam status signal	R								T
Position lights request signal					R	T			R
Rear window defogger switch signal						T			R
Rear window defogger control signal	R								T
Sleep request 1 signal					R	T			
Sleep request 2 signal						T			R
Theft warning horn request signal						T			R
Tire pressure signal					R	T			
Turn indicator signal					R	T			
Wake up request 1 signal						T			R
Wake up request 2 signal						T			R
Steering angle sensor signal				R			T		
Front wiper stop position signal						R			T
Hood switch signal						R			T
Oil pressure switch signal					R				T

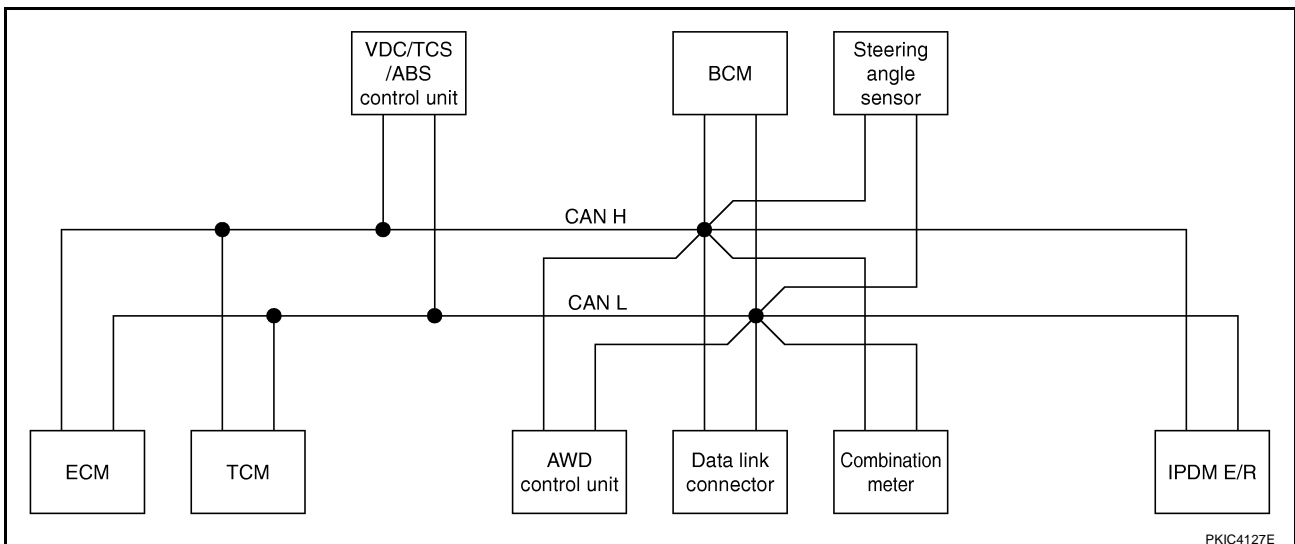
*1: with Intelligent Key system models only

*2: with automatic drive positioner models only

*3: P range and R range only

TYPE 5/TYPE 6 System Diagram

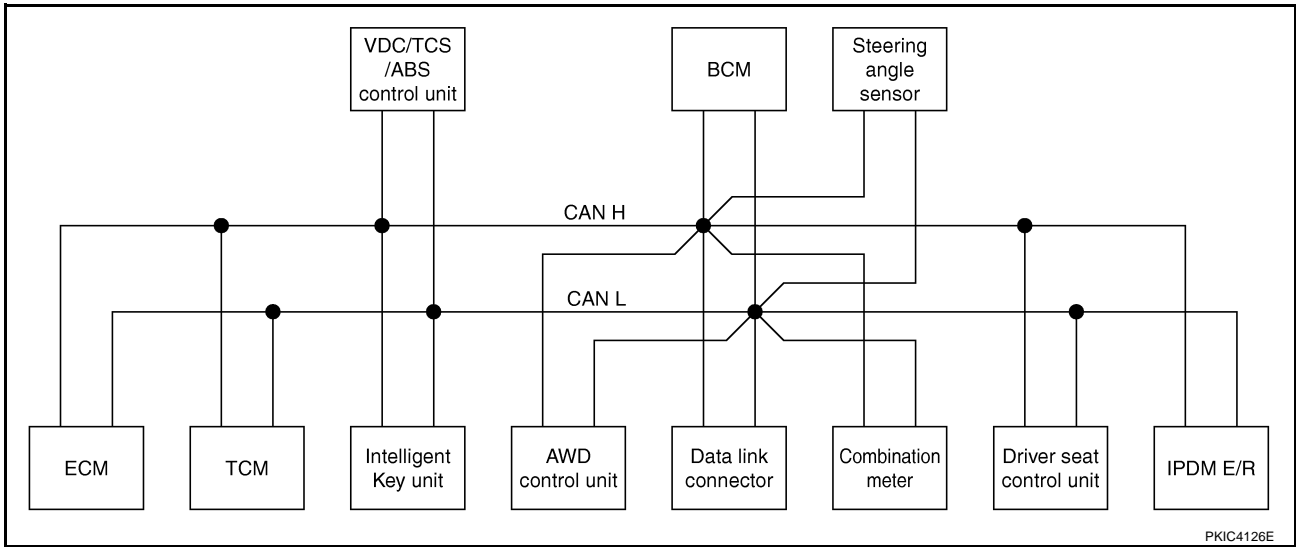
- Type 5



CAN COMMUNICATION

[CAN]

● Type 6



Input/output Signal Chart

T: Transmit R: Receive

Signals	ECM	TCM	Intelligent Key unit ^{*1}	VDC/TCS/ABS control unit	AWD control unit	Combination meter	BCM	Steering angle sensor	Driver seat control unit ^{*2}	IPDM E/R
A/C compressor request signal	T									R
Accelerator pedal position signal	T	R		R	R					
ASCD CRUISE lamp signal	T					R				
ASCD OD cancel request signal	T	R								
ASCD operation signal	T	R								
ASCD SET lamp signal	T					R				
Battery voltage signal	T	R								
Closed throttle position signal	T	R								
Cooling fan motor operation signal	T									R
Engine coolant temperature signal	T					R				
Engine speed signal	T	R	R	R	R	R				
Malfunction indicator lamp signal	T					R				
Wide open throttle position signal	T	R								
A/T CHECK indicator lamp signal		T				R				
A/T position indicator signal		T		R		R			R ^{*3}	
A/T self-diagnosis signal	R	T								
Manual mode indicator signal		T				R				
Output shaft revolution signal	R	T								
Turbine revolution signal	R	T								
Door lock/unlock/trunk open request signal			T				R			
Hazard and horn request signal			T				R			
Panic alarm request signal			T				R			

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Intelligent Key unit*1	VDC/TCS/ABS control unit	AWD control unit	Combination meter	BCM	Steering angle sensor	Driver seat control unit*2	IPDM E/R
Power window open request signal			T				R			
A/T shift schedule change demand signal		R		T						
Vehicle speed signal				T	R	R				
	R	R	R			T	R		R	
AWD warning lamp signal					T	R				
Fuel level sensor signal	R					T				
Manual mode shift down signal		R				T				
Manual mode shift up signal		R				T				
Manual mode signal		R				T				
Not manual mode signal		R				T				
Parking brake switch signal					R	T				
Seat belt buckle switch signal						T	R			
SNOW mode switch signal	R				R	T				
Stop lamp switch signal		R				T				
				T	R					
A/C switch signal	R						T			
Blower fan motor switch signal	R						T			
Buzzer output signal						R	T			
Door lock/unlock status signal			R				T			
Door switch signal			R			R	T		R	R
Front fog lights request signal							T			R
Front wiper request signal							T			R
High beam request signal						R	T			R
High beam status signal	R									T
Horn chirp signal							T			R
Key fob door unlock signal							T		R	
Key switch signal							T		R	
Low beam request signal							T			R
Low beam status signal	R									T
Position lights request signal						R	T			R
Rear window defogger control signal	R									T
Rear window defogger switch signal							T			R
Sleep request 1 signal						R	T			
Sleep request 2 signal							T			R
Theft warning horn request signal							T			R
Tire pressure signal						R	T			
Turn indicator signal						R	T			
Wake up request 1 signal							T			R

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Intelligent Key unit*1	VDC/TCS/ABS control unit	AWD control unit	Combination meter	BCM	Steering angle sensor	Driver seat control unit*2	IPDM E/R
Wake up request 2 signal							T			R
Steering angle sensor signal				R				T		
Front wiper stop position signal							R			T
Hood switch signal							R			T
Oil pressure switch signal						R				T

*1: with Intelligent Key system models only

*2: with automatic drive positioner models only

*3: P range and R range only

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CAN SYSTEM (TYPE 1)

PFP:23710

Component Parts and Harness Connector Location

NKS0010P

Refer to [LAN-22, "Component Parts and Harness Connector Location"](#) .

Schematic

NKS0010Q

Refer to [LAN-23, "Schematic"](#) .

Wiring Diagram — CAN —

NKS0010R

Refer to [LAN-24, "Wiring Diagram — CAN —"](#) .

CAN SYSTEM (TYPE 1)

[CAN]

NKS0010S

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	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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

PKIC4161E

CAN SYSTEM (TYPE 1)

[CAN]

Attach copy of
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SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC4162E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

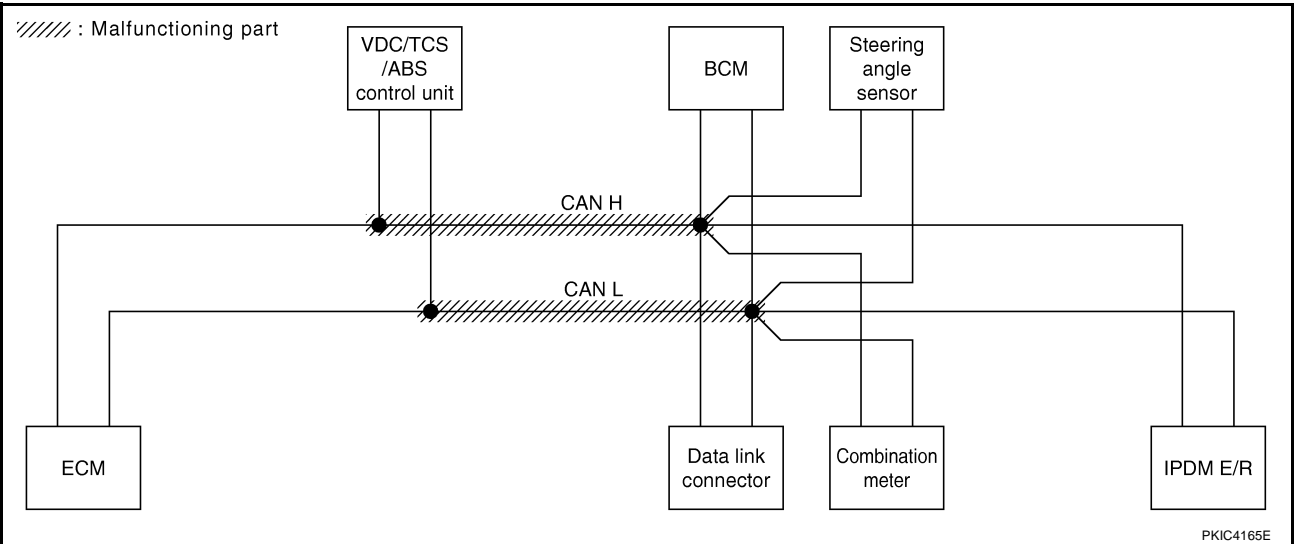
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between VDC/TCS/ABS control unit and data link connector. Refer to [LAN-127, "Inspection Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UN ✓ KN	UN ✓ KN	-	UN ✓ KN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	UNKWN	-	UN ✓ KN	-	UN ✓ KN	-	CAN COMM CIRCUIT (U1000)	-
BCM	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)	-

PKIC4274E



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CAN SYSTEM (TYPE 1)

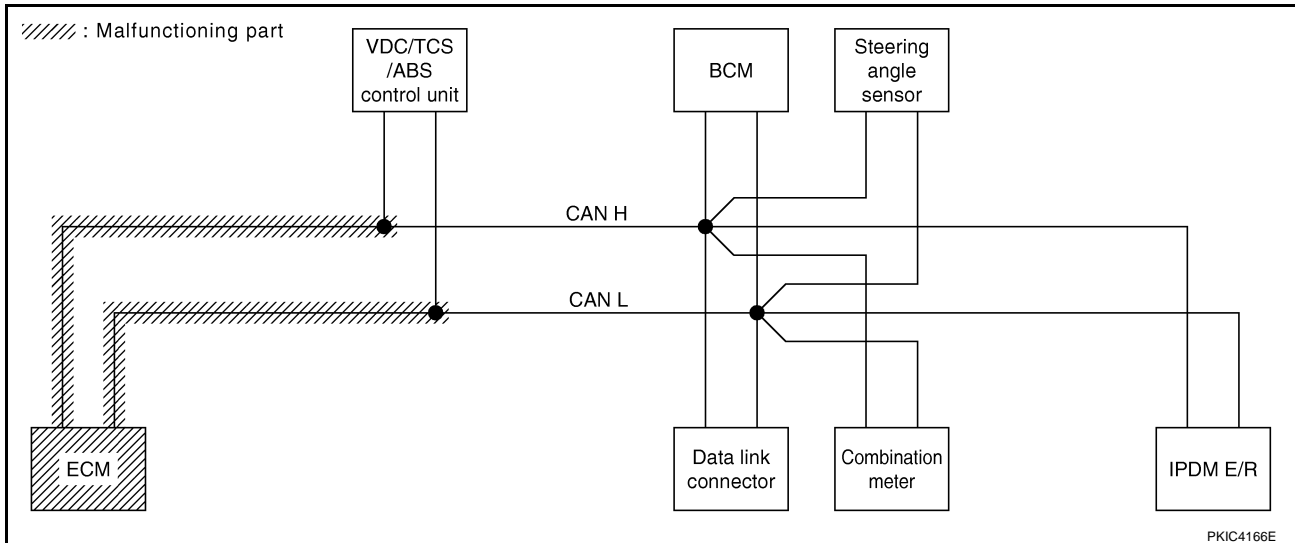
[CAN]

Case 2

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKW [✓] N	—	UNKW [✓] N	UNKW [✓] N	UNKW [✓] N	—	UNKW [✓] N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	—	NG	UNKW [✓] N	UNKW [✓] N	—	UNKW [✓] N	—	UNKW [✓] N	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKW [✓] N	UNKW [✓] N	—	UNKW [✓] N	—	—	UNKW [✓] N	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW [✓] N	UNKW [✓] N	—	—	UNKW [✓] N	—	—	CAN COMM CIRCUIT (U1000)	—

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PKIC4166E

CAN SYSTEM (TYPE 1)

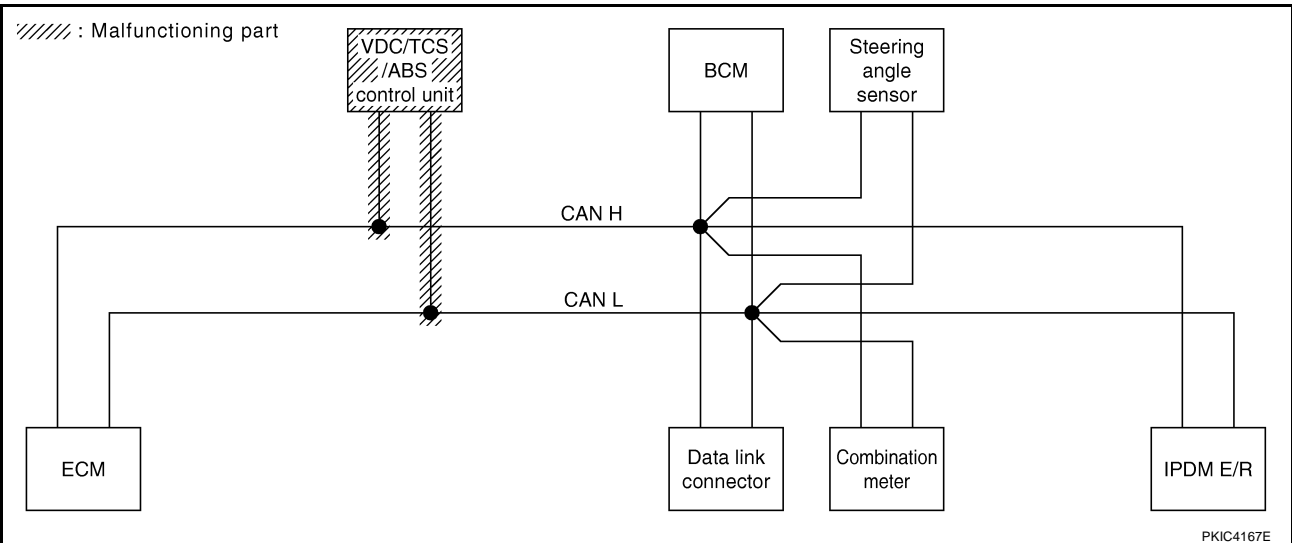
[CAN]

Case 3

Check VDC/TCS/ABS control unit circuit. Refer to [LAN-130, "VDC/TCS/ABS Control Unit Circuit Inspection"](#) .

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

PKIC4276E



LAN

CAN SYSTEM (TYPE 1)

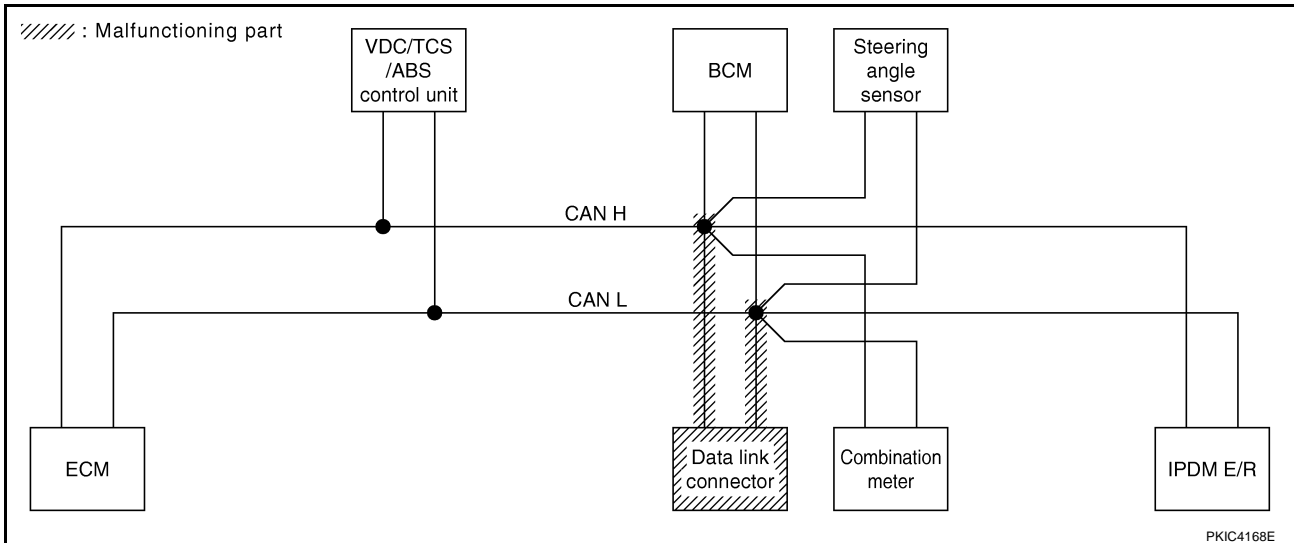
[CAN]

Case 4

Check data link connector circuit. Refer to [LAN-131, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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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PKIC4168E

CAN SYSTEM (TYPE 1)

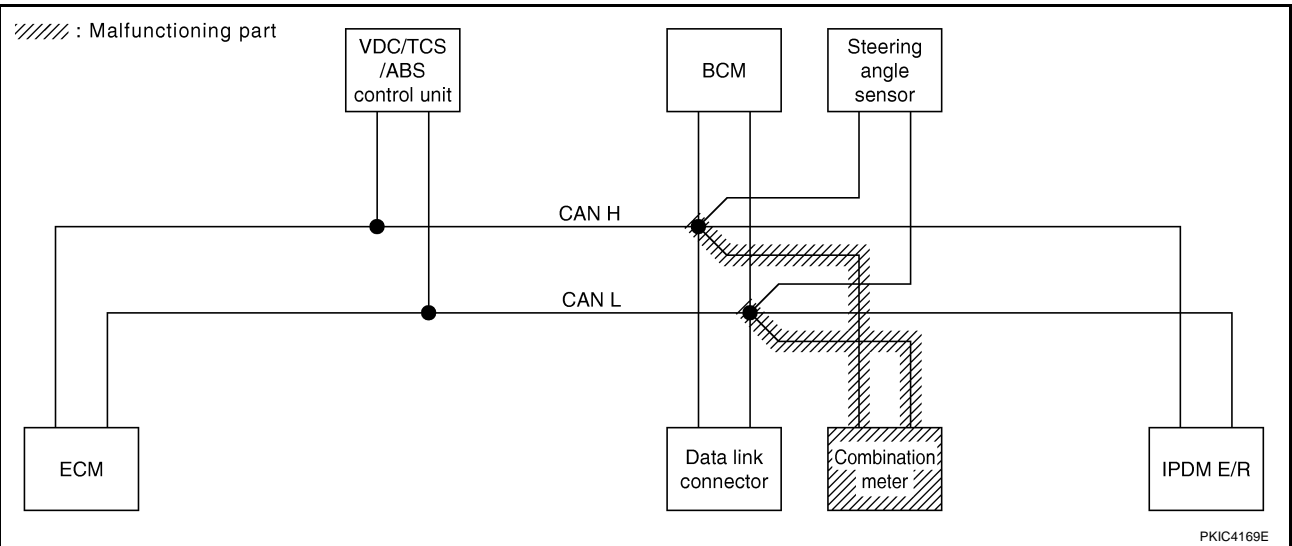
[CAN]

Case 5

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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)

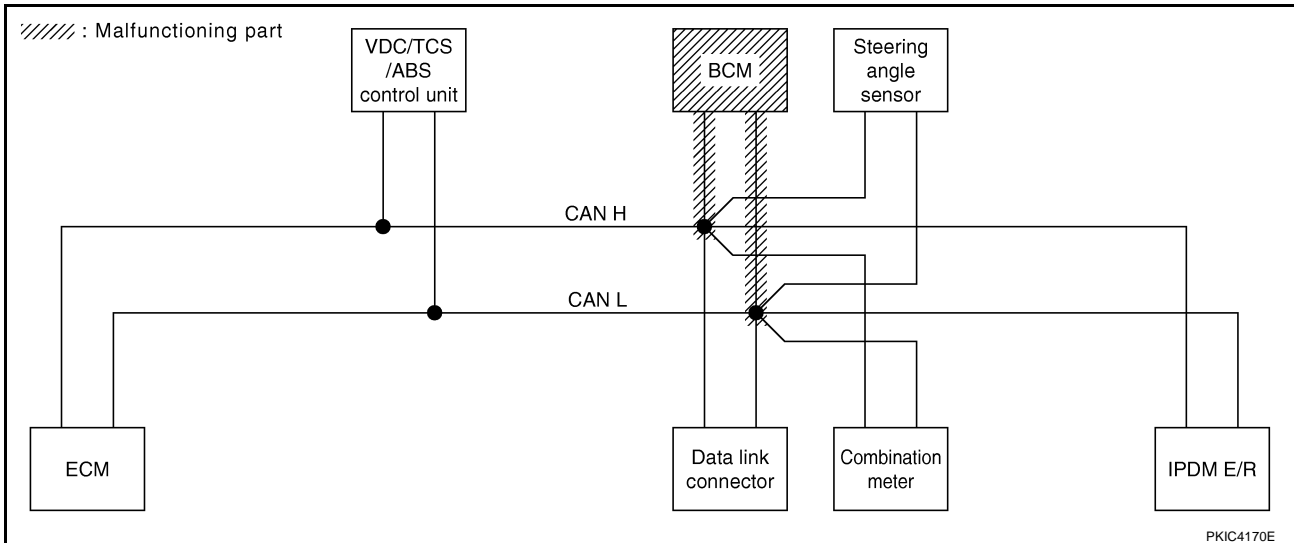
[CAN]

Case 6

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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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PKIC4170E

CAN SYSTEM (TYPE 1)

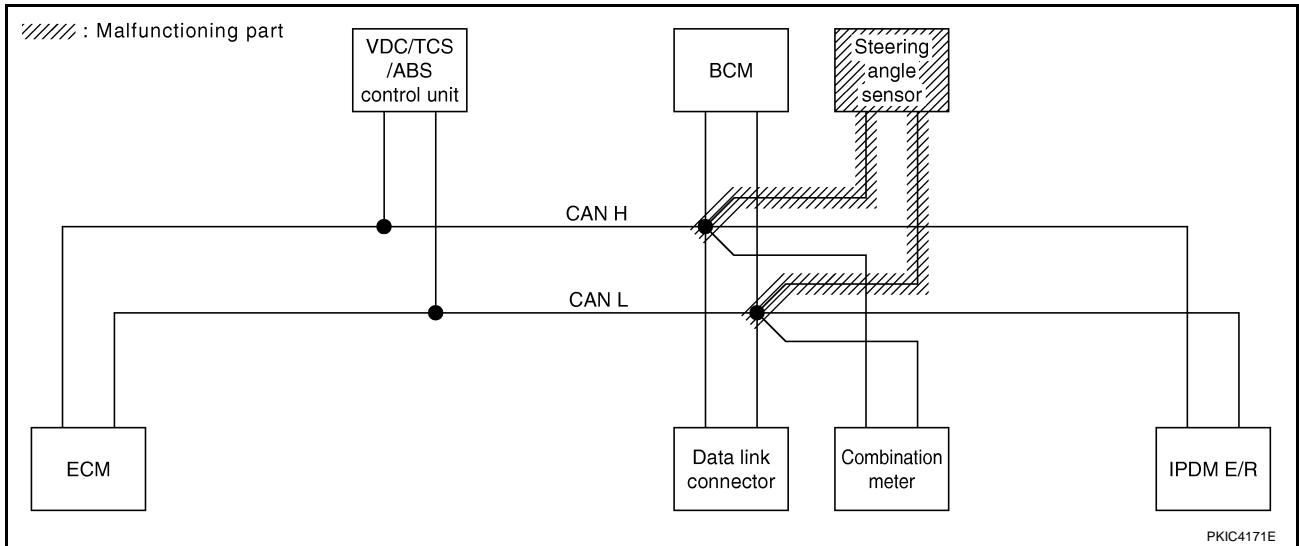
[CAN]

Case 7

Check steering angle sensor circuit. Refer to [LAN-132. "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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)

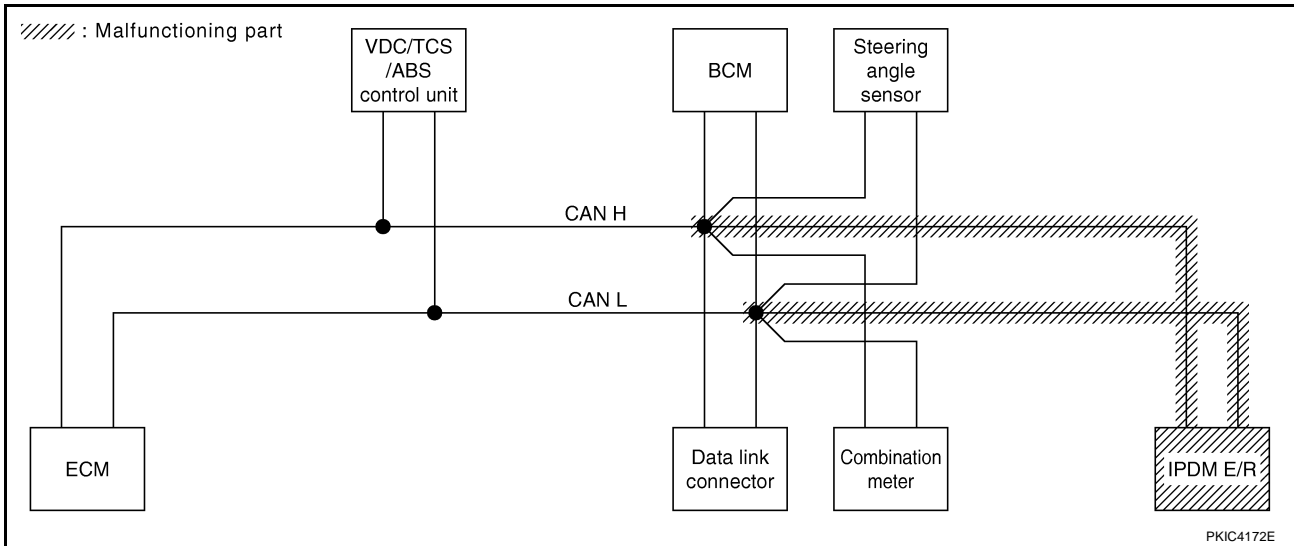
[CAN]

Case 8

Check IPDM E/R circuit. Refer to [LAN-133, "IPDM E/R Circuit Inspection"](#) .

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

PKIC4281E



Case 9

Check CAN communication circuit. Refer to [LAN-134, "CAN Communication Circuit Inspection"](#) .

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

PKIC4282E

CAN SYSTEM (TYPE 1)

[CAN]

Case 10

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-135, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC4283E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-135, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC4284E

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LAN

CAN SYSTEM (TYPE 2)

PFP:23710

Component Parts and Harness Connector Location

NKS00116

Refer to [LAN-22, "Component Parts and Harness Connector Location"](#) .

Schematic

NKS00117

Refer to [LAN-23, "Schematic"](#) .

Wiring Diagram — CAN —

NKS00118

Refer to [LAN-24, "Wiring Diagram — CAN —"](#) .

CAN SYSTEM (TYPE 2)

[CAN]

NKS00119

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

PKIC4163E

CAN SYSTEM (TYPE 2)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

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ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC4164E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

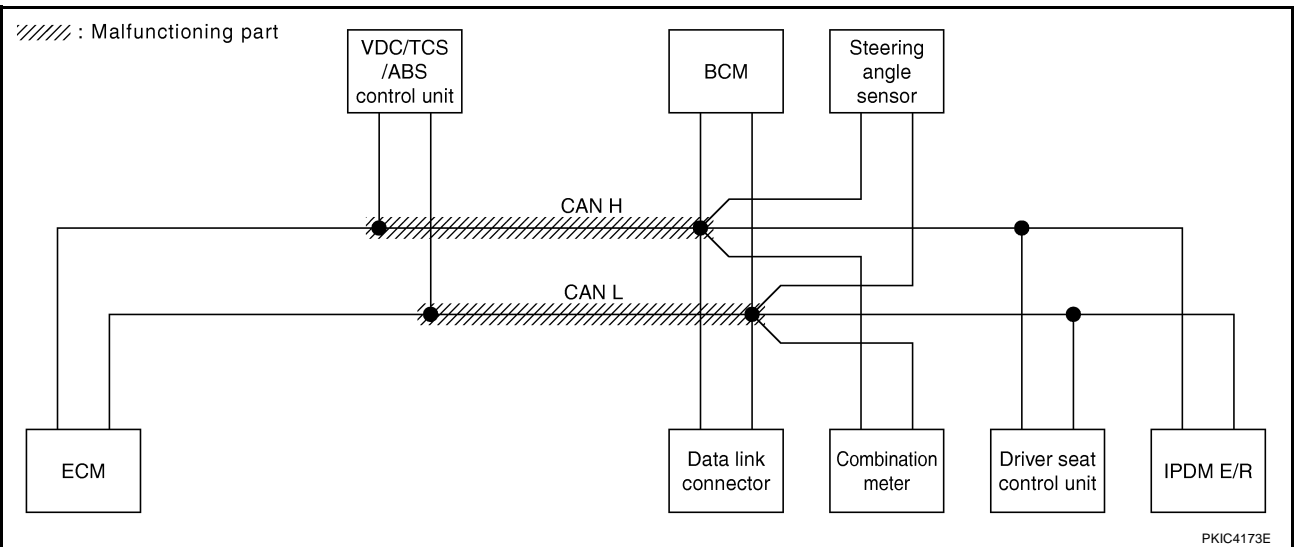
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between VDC/TCS/ABS control unit and data link connector. Refer to [LAN-127, "Inspection Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit"](#).

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

PKIC4285E



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CAN SYSTEM (TYPE 2)

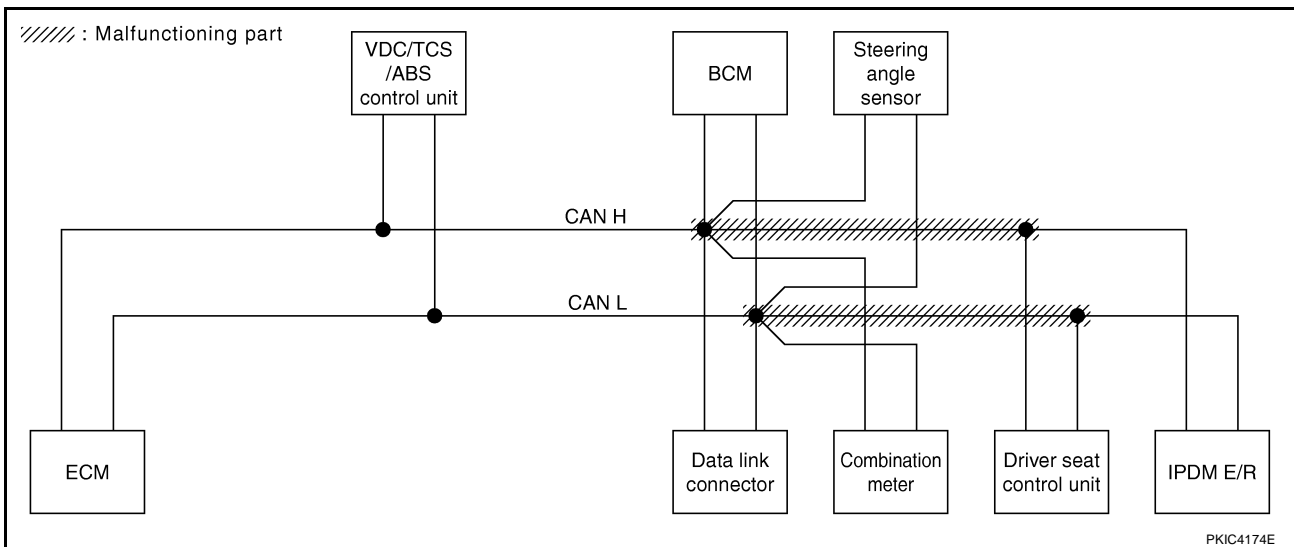
[CAN]

Case 2

Check harness between data link connector and driver seat control unit. Refer to [LAN-127, "Inspection Between Data Link Connector and Driver Seat Control Unit Circuit"](#) .

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

PKIC4286E



PKIC4174E

CAN SYSTEM (TYPE 2)

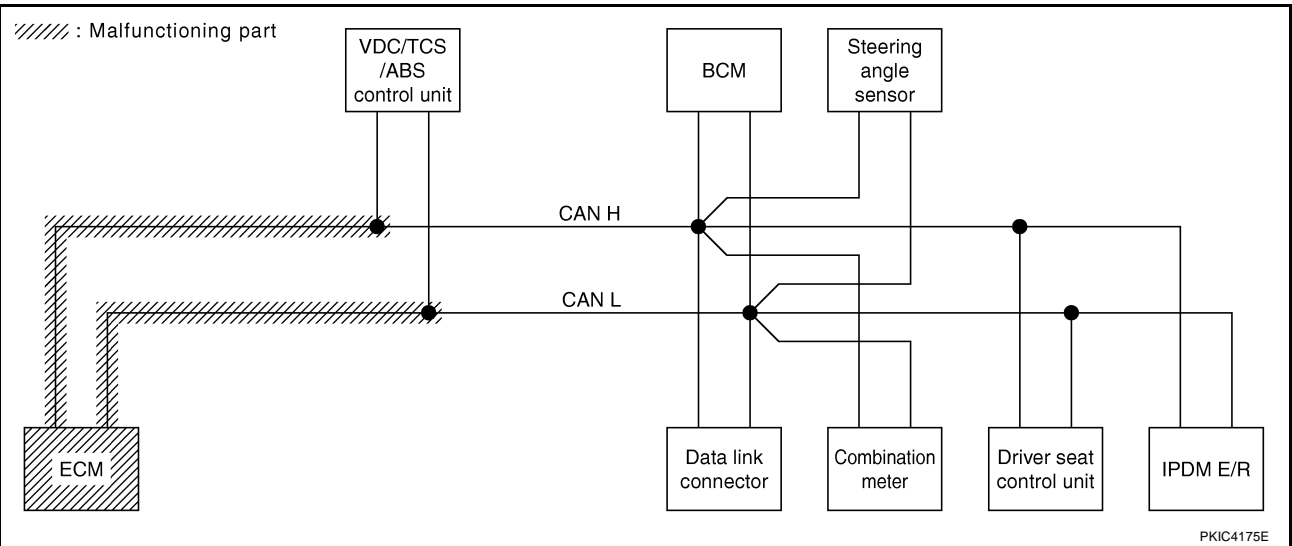
[CAN]

Case 3

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

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

PKIC4287E



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CAN SYSTEM (TYPE 2)

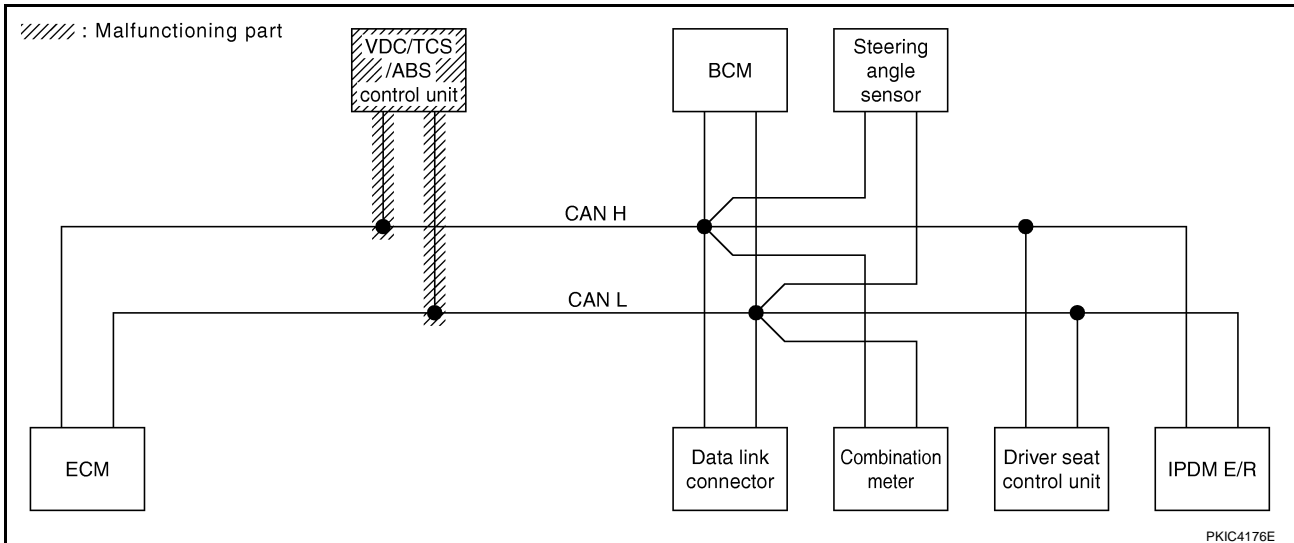
[CAN]

Case 4

Check VDC/TCS/ABS control unit circuit. Refer to [LAN-130, "VDC/TCS/ABS Control Unit Circuit Inspection"](#) .

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

PKIC4288E



PKIC4176E

CAN SYSTEM (TYPE 2)

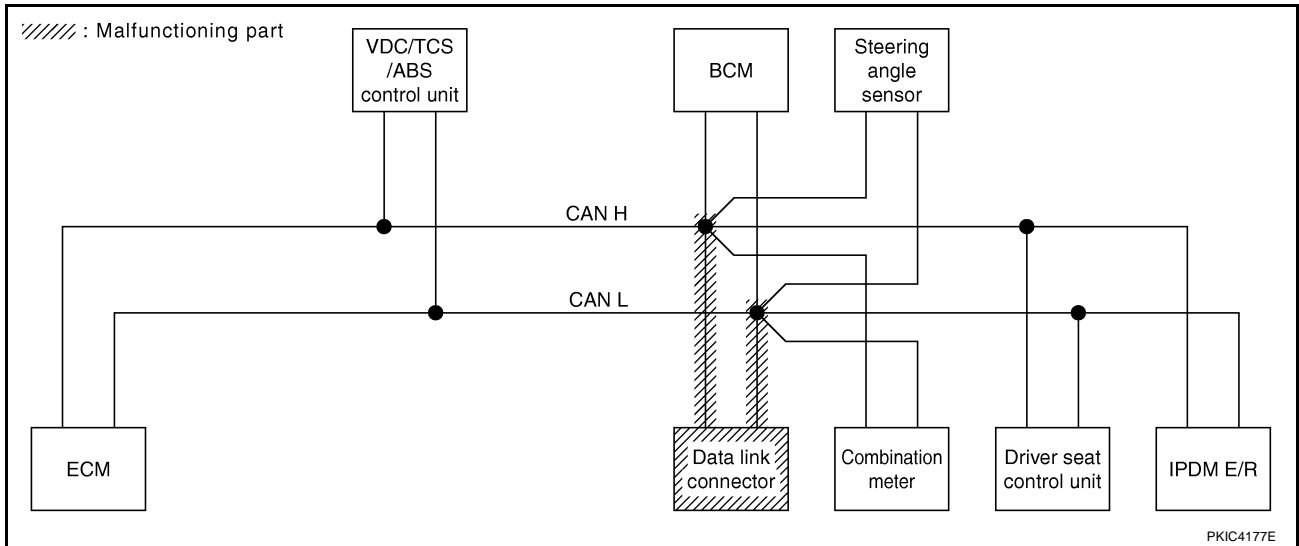
[CAN]

Case 5

Check data link connector circuit. Refer to [LAN-131, "Data Link Connector Circuit Inspection"](#) .

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

PKIC4289E



PKIC4177E

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CAN SYSTEM (TYPE 2)

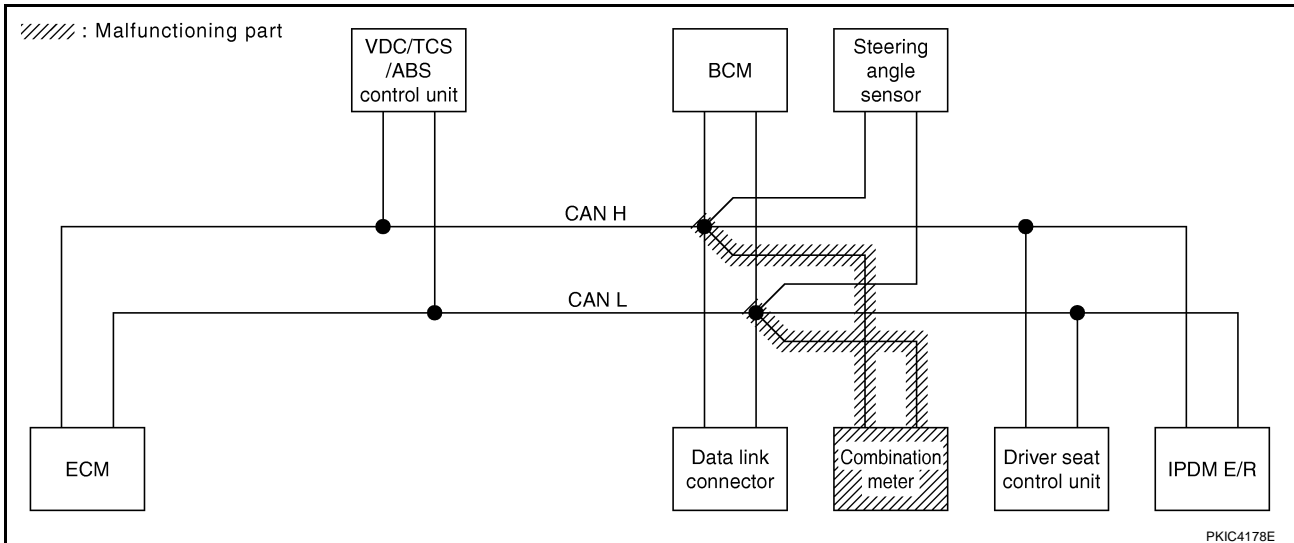
[CAN]

Case 6

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

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

PKIC4290E



PKIC4178E

CAN SYSTEM (TYPE 2)

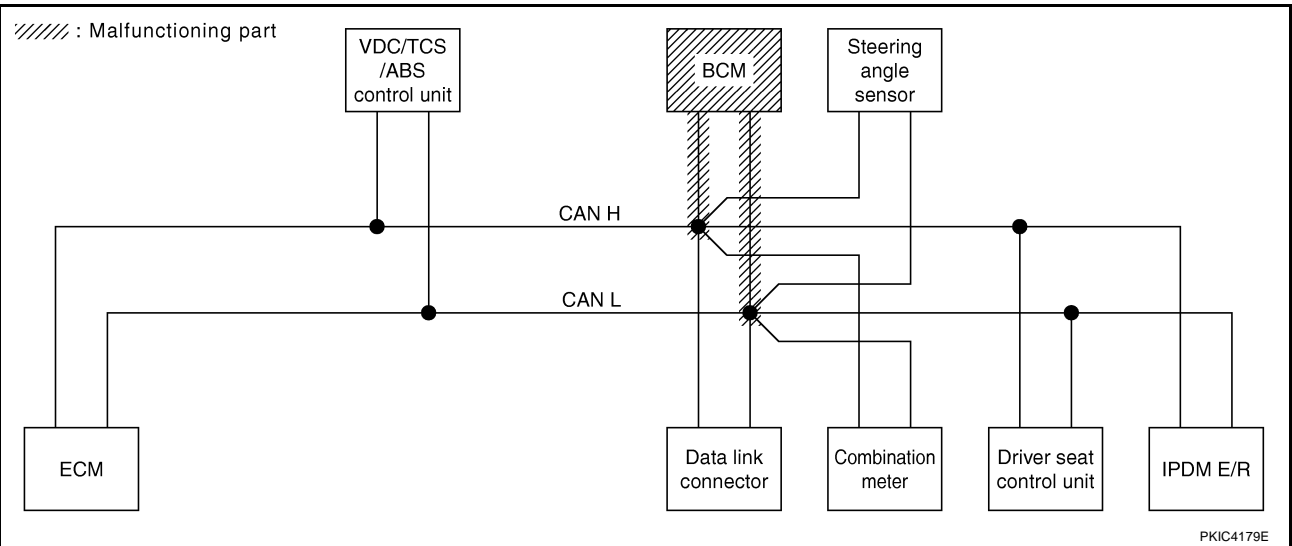
[CAN]

Case 7

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

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

PKIC4291E



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CAN SYSTEM (TYPE 2)

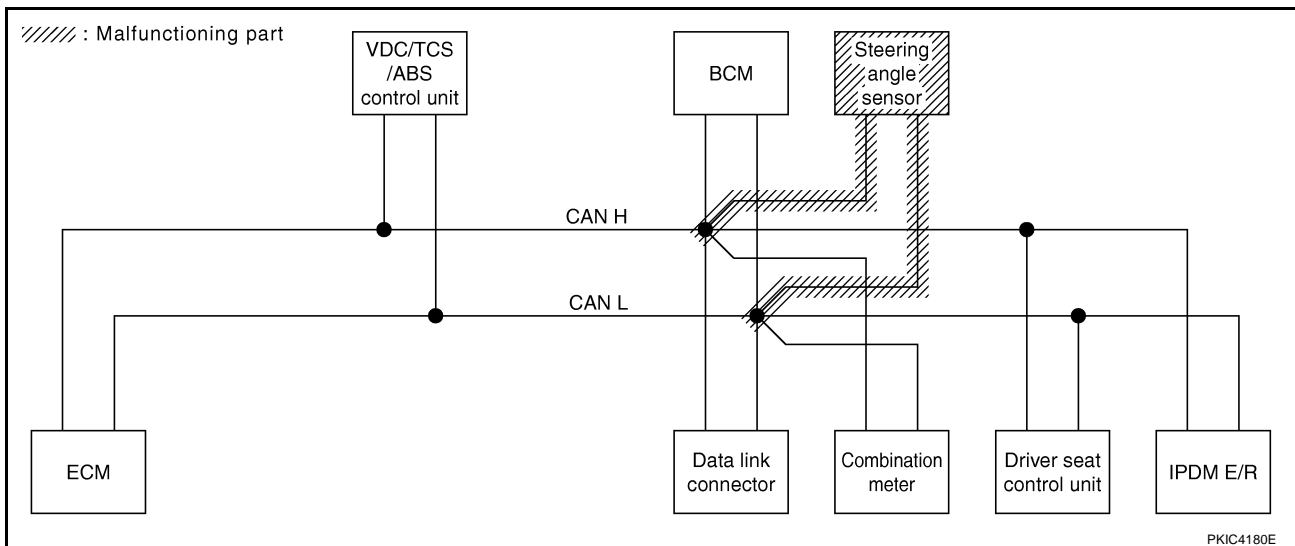
[CAN]

Case 8

Check steering angle sensor circuit. Refer to [LAN-132, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC4292E



PKIC4180E

CAN SYSTEM (TYPE 2)

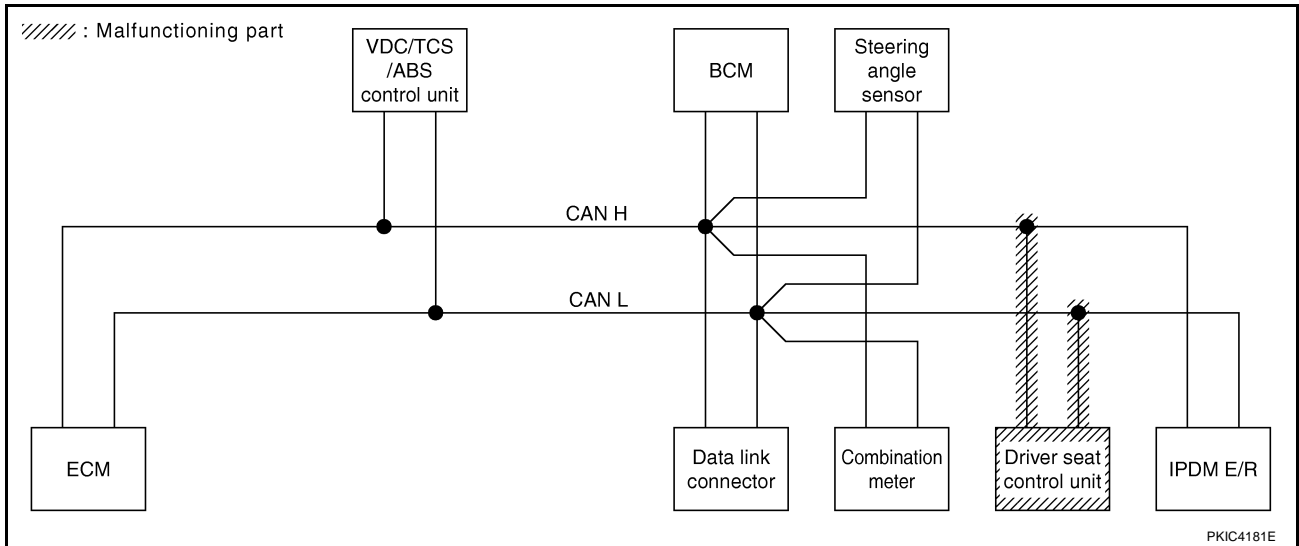
[CAN]

Case 9

Check driver seat control unit circuit. Refer to [LAN-133, "Driver Seat Control Unit Circuit Inspection"](#) .

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

PKIC4293E



PKIC4181E

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CAN SYSTEM (TYPE 2)

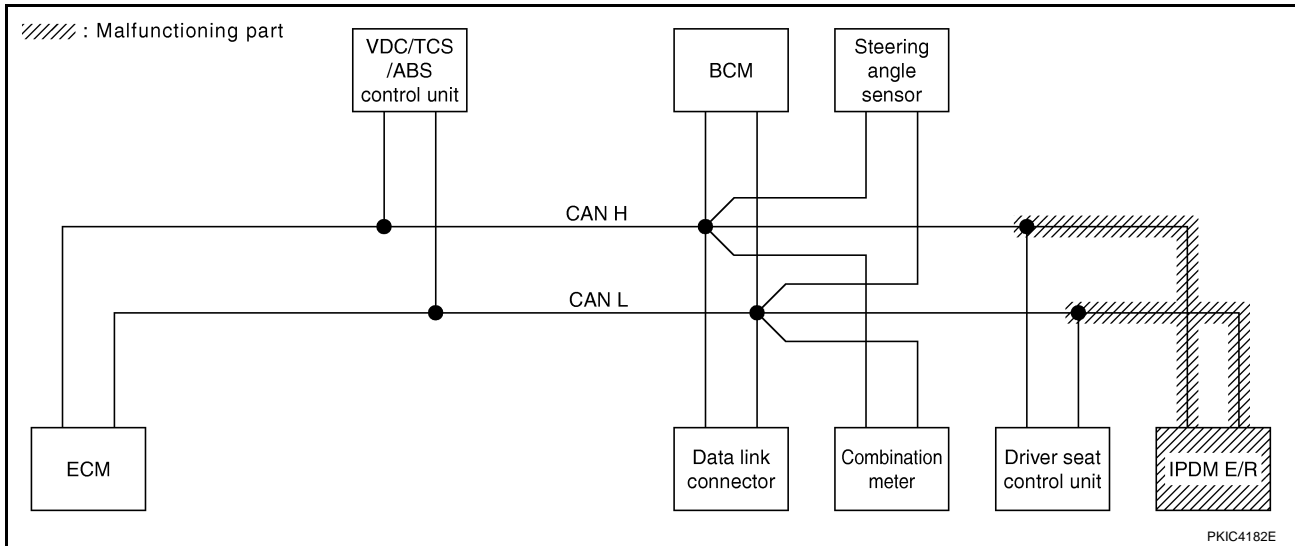
[CAN]

Case 10

Check IPDM E/R circuit. Refer to [LAN-133, "IPDM E/R Circuit Inspection"](#) .

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

PKIC4294E



Case 11

Check CAN communication circuit. Refer to [LAN-134, "CAN Communication Circuit Inspection"](#) .

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

PKIC4295E

CAN SYSTEM (TYPE 2)

[CAN]

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-135, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC4296E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-135, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC4297E

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CAN SYSTEM (TYPE 3)

PFP:23710

Component Parts and Harness Connector Location

NKS0011Q

Refer to [LAN-22, "Component Parts and Harness Connector Location"](#) .

Schematic

NKS0011R

Refer to [LAN-23, "Schematic"](#) .

Wiring Diagram — CAN —

NKS0011S

Refer to [LAN-24, "Wiring Diagram — CAN —"](#) .

CAN SYSTEM (TYPE 3)

[CAN]

NKS0011T

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									IPDM E/R
				ECM	TCM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG				
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	
BCM	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
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Attach copy of
SELECT SYSTEM

PKIC4153E

CAN SYSTEM (TYPE 3)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

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ABS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

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IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC4154E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

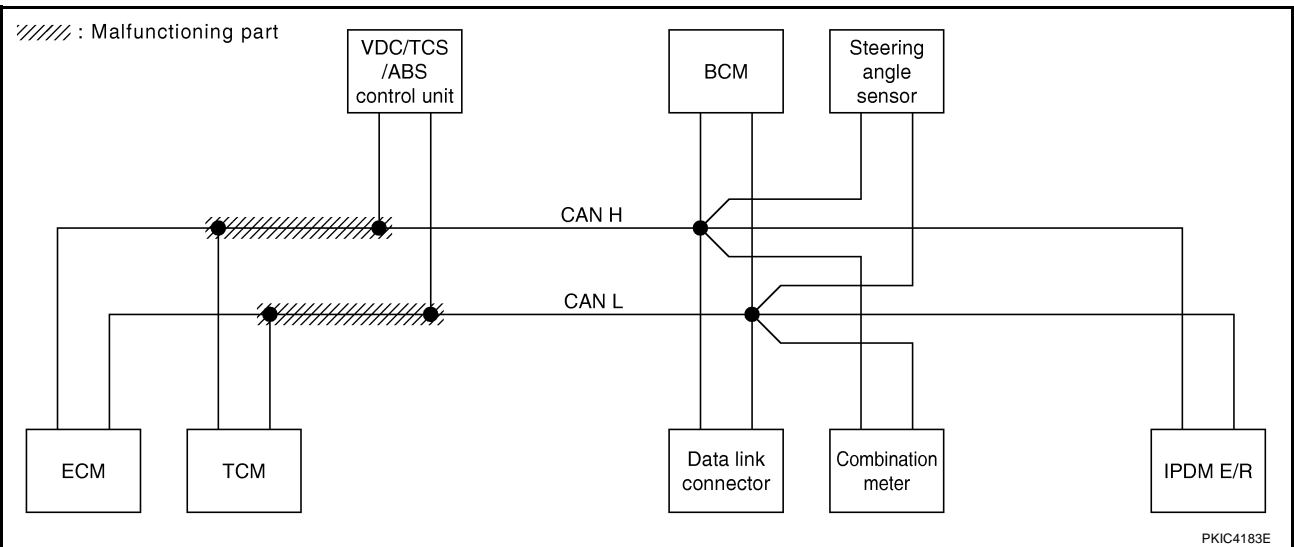
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and VDC/TCS/ABS control unit. Refer to [LAN-126, "Inspection Between TCM and VDC/TCS/ABS Control Unit Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UN ✓ WN	UN ✓ WN	UN ✓ WN	-	UN ✓ WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UN ✓ WN	UN ✓ WN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UN ✓ WN	UN ✓ WN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UN ✓ WN	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UN ✓ WN	-	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC4298E



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CAN SYSTEM (TYPE 3)

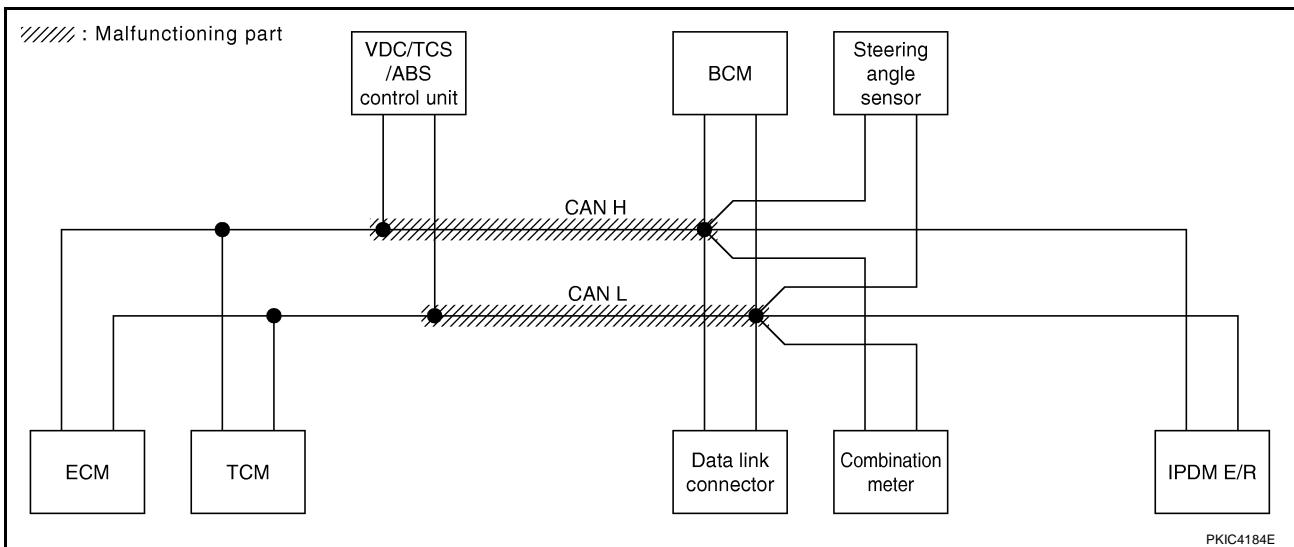
[CAN]

Case 2

Check harness between VDC/TCS/ABS control unit and data link connector. Refer to [LAN-127, "Inspection Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit"](#) .

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

PKIC4299E



PKIC4184E

CAN SYSTEM (TYPE 3)

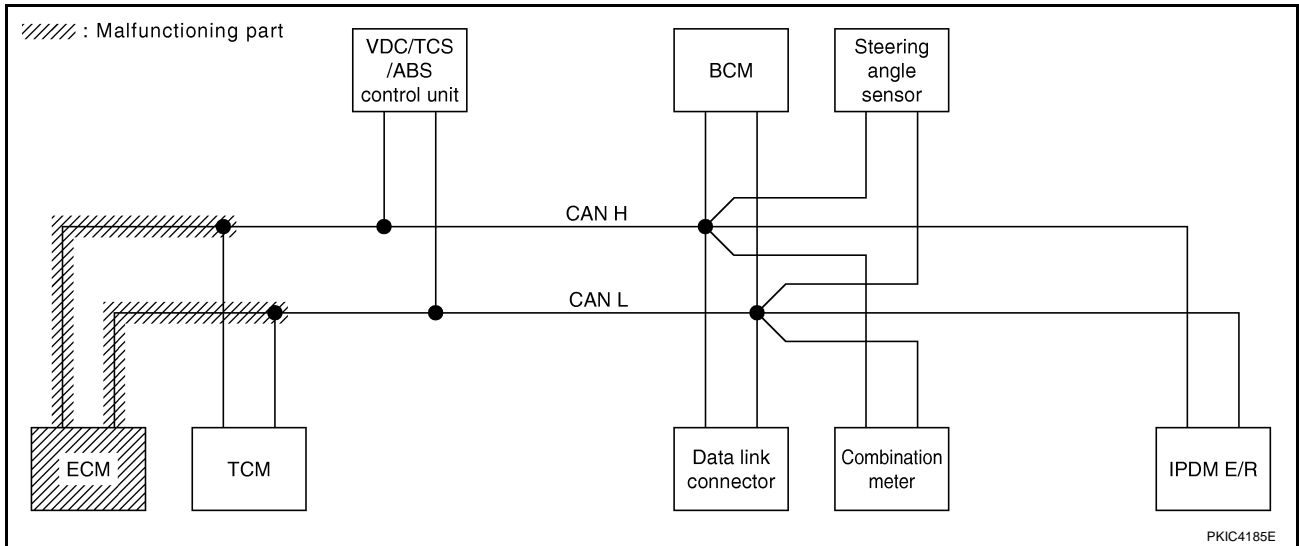
[CAN]

Case 3

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R			
ENGINE	—	—	UNKW N	—	UNKW N	UNKW N	UNKW N	UNKW N	UNKW N	—	UNKW N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW N	UNKW N	—	UNKW N	UNKW N	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW N	UNKW N	UNKW N	—	UNKW N	—	UNKW N	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKW N	UNKW N	—	—	UNKW N	—	—	—	UNKW N	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW N	UNKW N	—	—	—	UNKW N	—	—	—	CAN COMM CIRCUIT (U1000)	—

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CAN SYSTEM (TYPE 3)

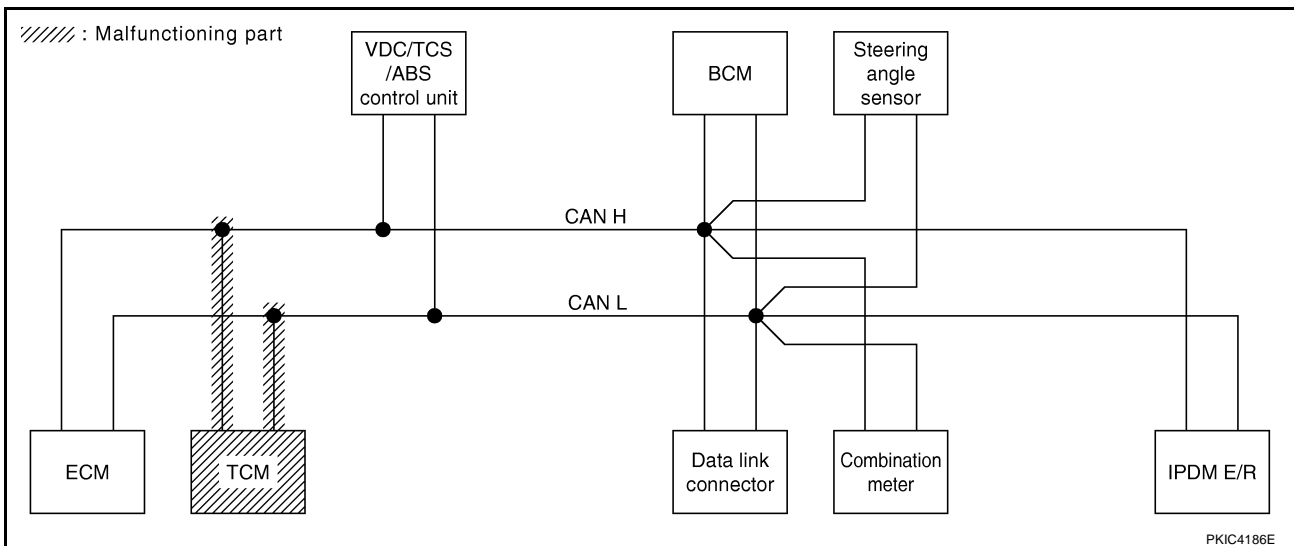
[CAN]

Case 4

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKW	—	UNKW	UNKW	UNKW	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	UNKW	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKW	UNKW	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—

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PKIC4186E

CAN SYSTEM (TYPE 3)

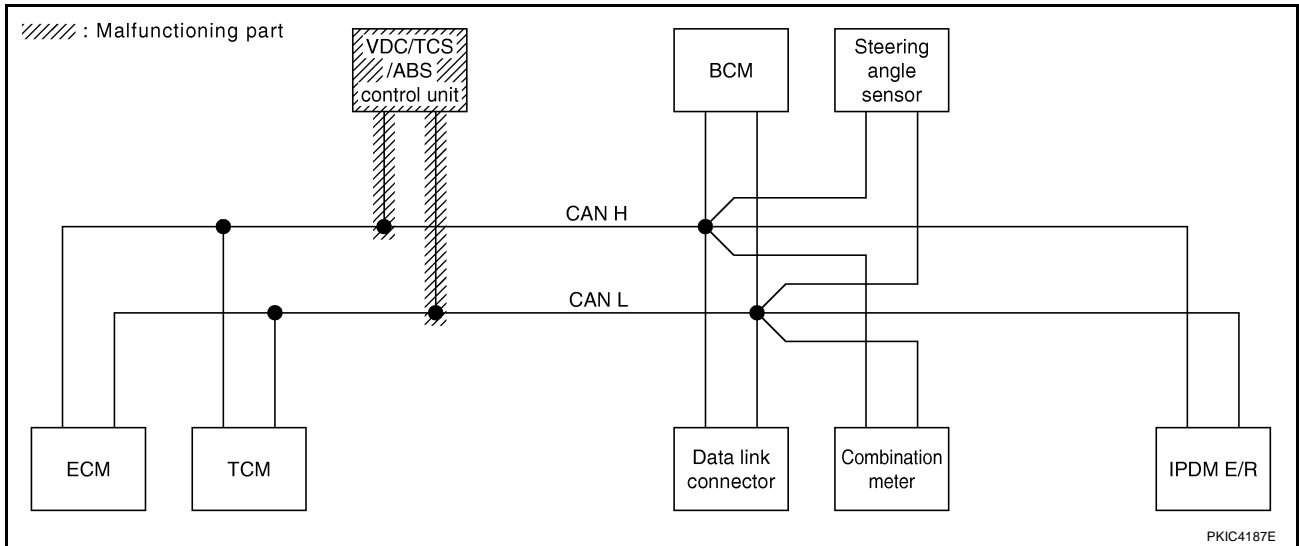
[CAN]

Case 5

Check VDC/TCS/ABS control unit circuit. Refer to [LAN-130, "VDC/TCS/ABS Control Unit Circuit Inspection"](#) .

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

PKIC4302E



PKIC4187E

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CAN SYSTEM (TYPE 3)

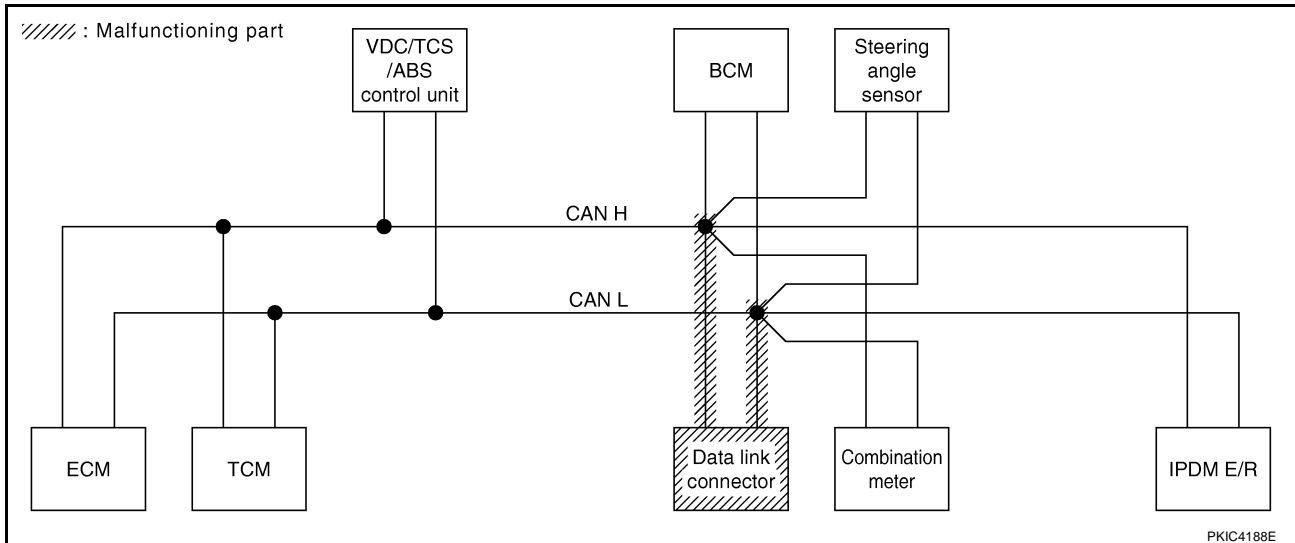
[CAN]

Case 6

Check data link connector circuit. Refer to [LAN-131, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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 3)

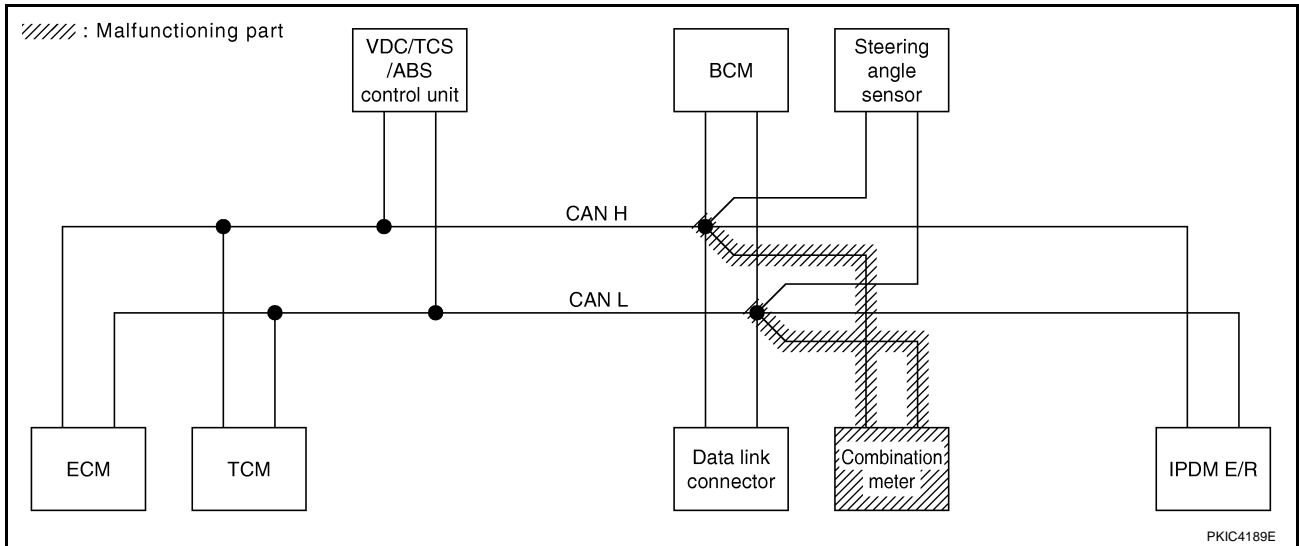
[CAN]

Case 7

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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 3)

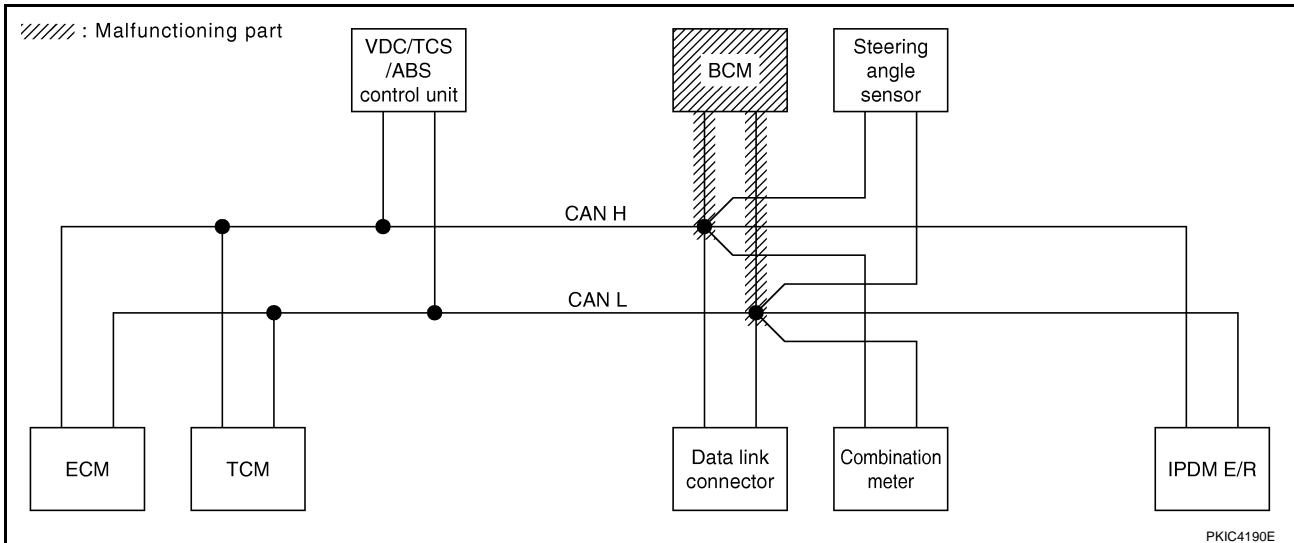
[CAN]

Case 8

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

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

PKIC4305E



CAN SYSTEM (TYPE 3)

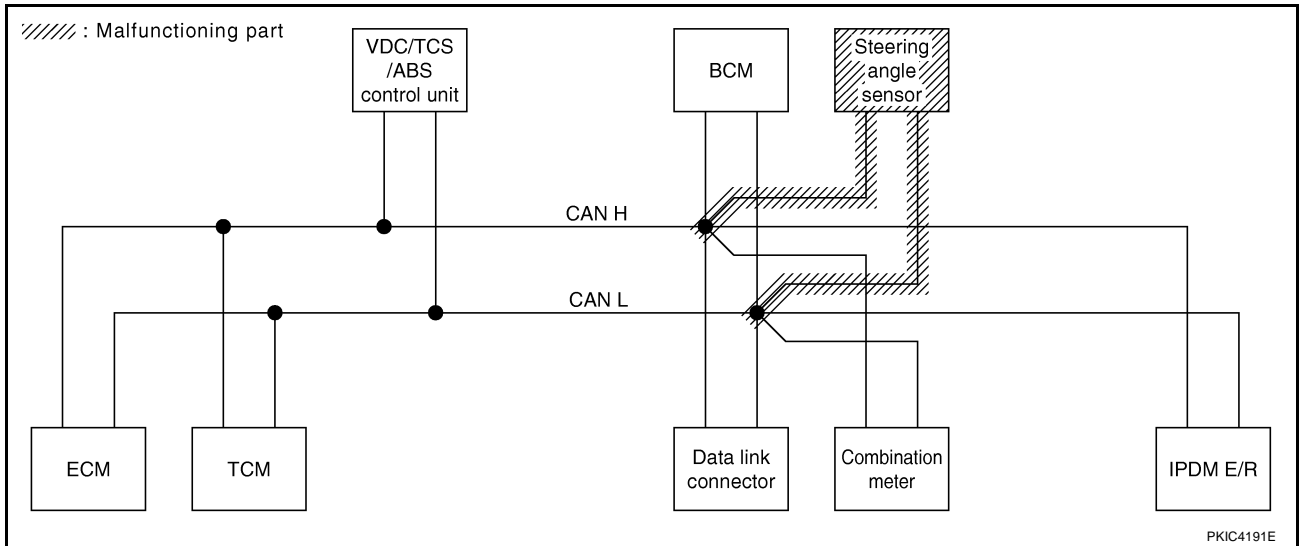
[CAN]

Case 9

Check steering angle sensor circuit. Refer to [LAN-132. "Steering Angle Sensor Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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 3)

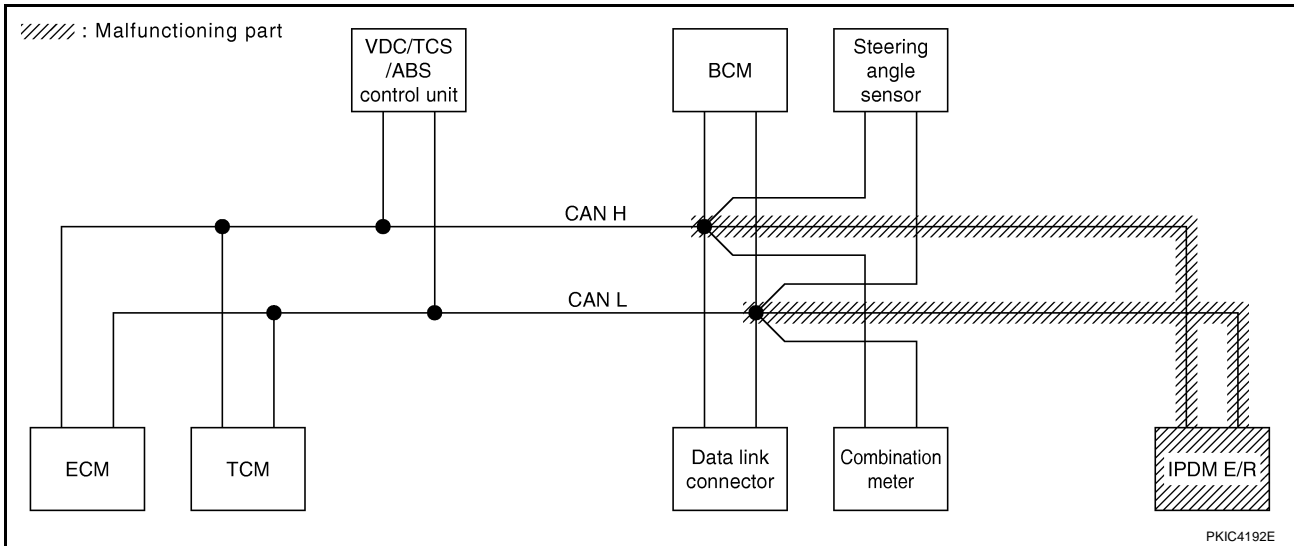
[CAN]

Case 10

Check IPDM E/R circuit. Refer to [LAN-133, "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	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG			
ENGINE	—	—	UNKW	—	UNKW	UNKW	UNKW	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	UNKW	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKW	UNKW	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC4307E



Case 11

Check CAN communication circuit. Refer to [LAN-134, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R		
				ECM	TCM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG			
ENGINE	—	—	UNKW	—	UNKW	UNKW	UNKW	UNKW	—	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKW	UNKW	—	UNKW	UNKW	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	UNKW	—	UNKW	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKW	UNKW	—	—	UNKW	—	—	UNKW	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW	UNKW	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC4308E

CAN SYSTEM (TYPE 3)

[CAN]

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-135, "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	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-

PKIC4309E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-135, "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	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
BCM	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)

PFP:23710

Component Parts and Harness Connector Location

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Refer to [LAN-22, "Component Parts and Harness Connector Location"](#) .

Schematic

NKS00129

Refer to [LAN-23, "Schematic"](#) .

Wiring Diagram — CAN —

NKS0012A

Refer to [LAN-24, "Wiring Diagram — CAN —"](#) .

CAN SYSTEM (TYPE 4)

[CAN]

Attach copy of
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SELF-DIAG RESULTS

Attach copy of
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SELF-DIAG RESULTS

Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
BCM
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
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MNTR

Attach copy of
A/T
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
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ABS
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BCM
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AUTO DRIVE POS.
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IPDM E/R
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PKIC4156E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

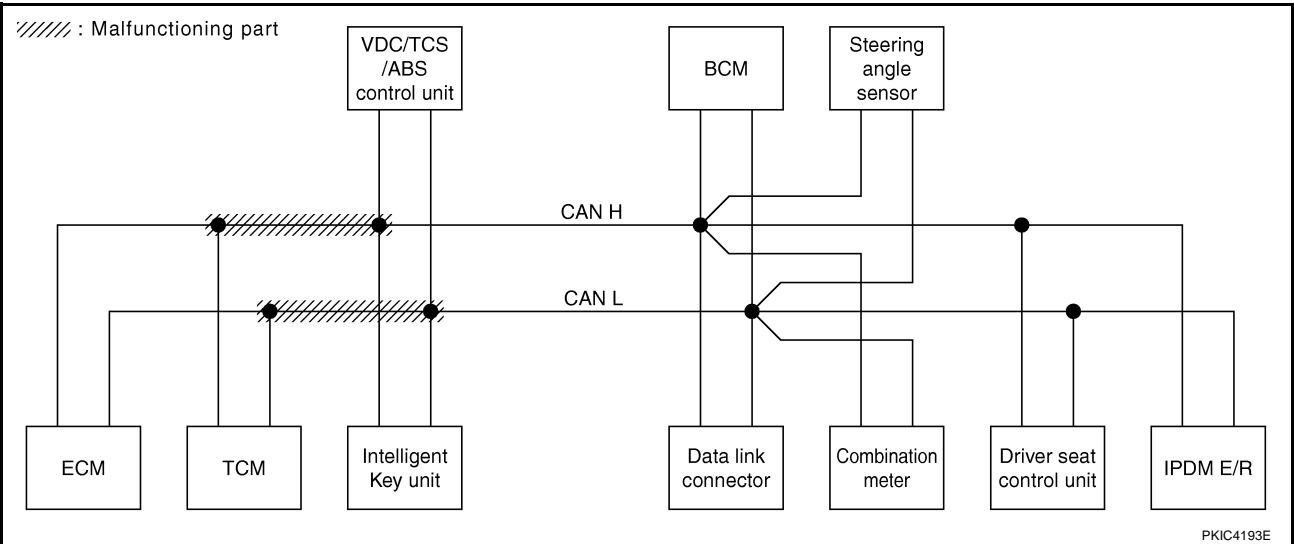
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and VDC/TCS/ABS control unit. Refer to [LAN-126, "Inspection Between TCM and VDC/TCS/ABS Control Unit Circuit"](#).

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

PKIC4311E



CAN SYSTEM (TYPE 4)

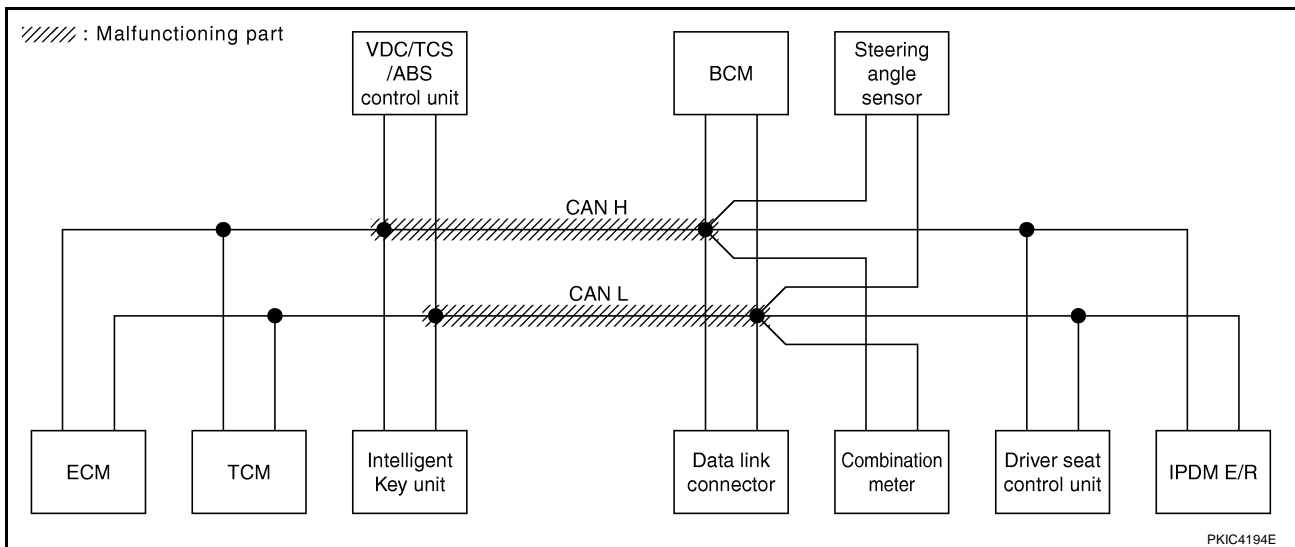
[CAN]

Case 2

Check harness between VDC/TCS/ABS control unit and data link connector. Refer to [LAN-130, "VDC/TCS/ABS Control Unit Circuit Inspection"](#) .

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

PKIC4312E



PKIC4194E

CAN SYSTEM (TYPE 4)

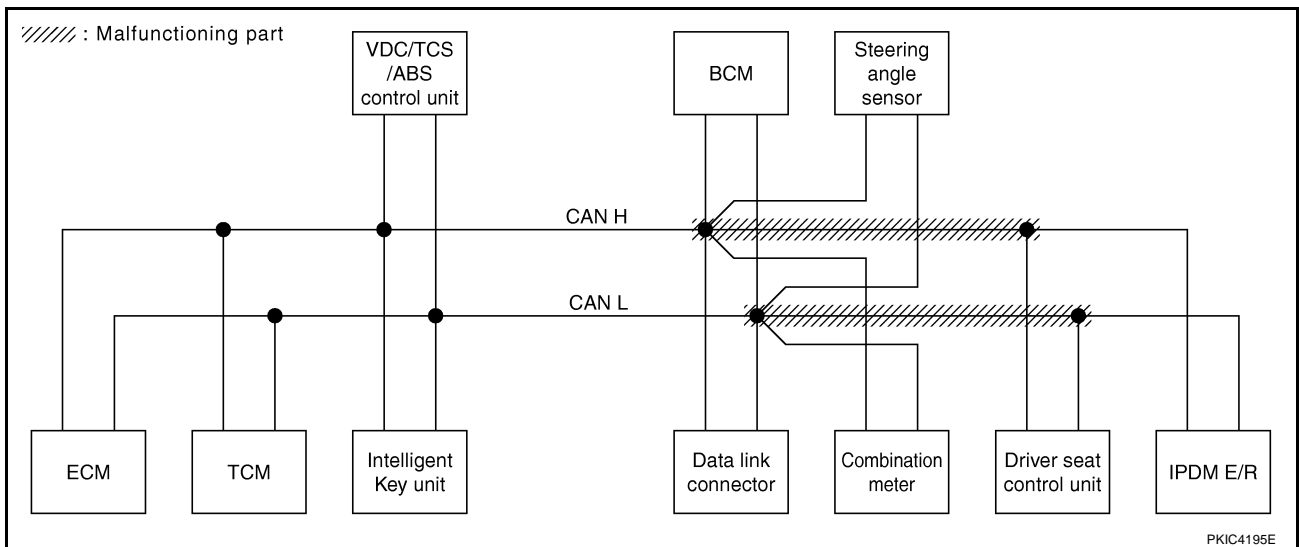
[CAN]

Case 3

Check harness between data link connector and driver seat control unit. Refer to [LAN-127, "Inspection Between Data Link Connector and Driver Seat Control Unit Circuit"](#) .

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

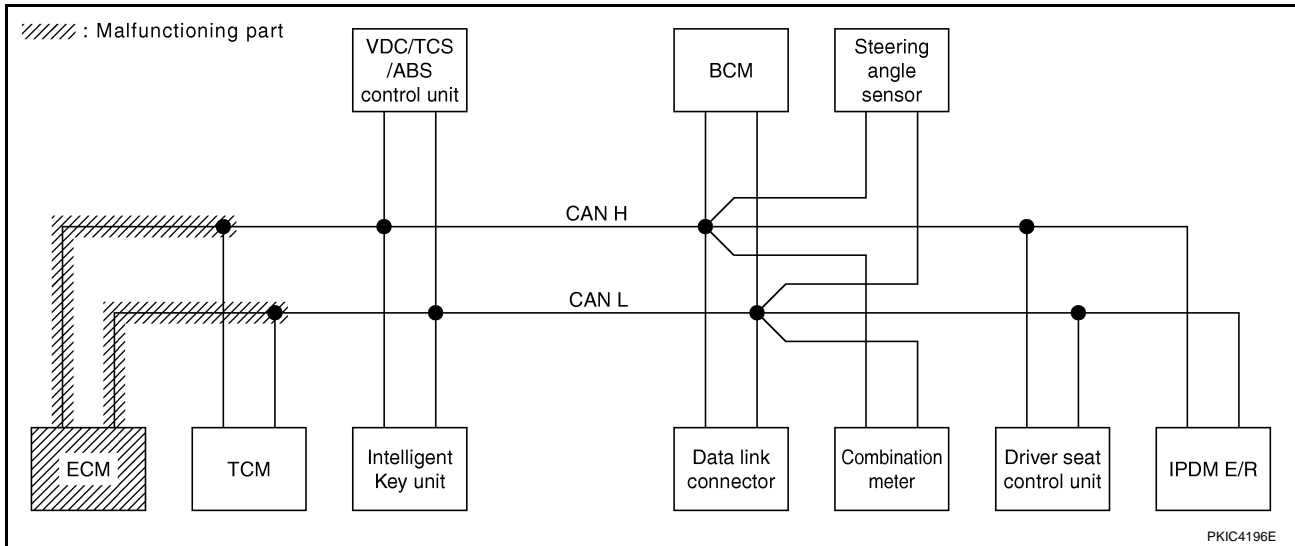
[CAN]

Case 4

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

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

PKIC4314E



CAN SYSTEM (TYPE 4)

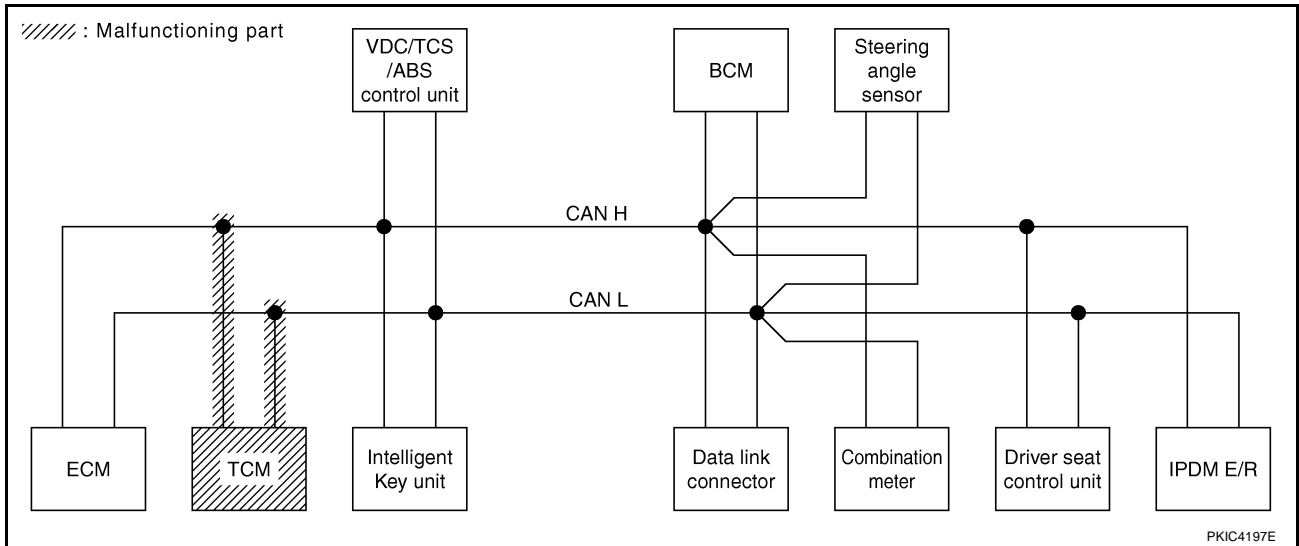
[CAN]

Case 5

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

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

PKIC4315E



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CAN SYSTEM (TYPE 4)

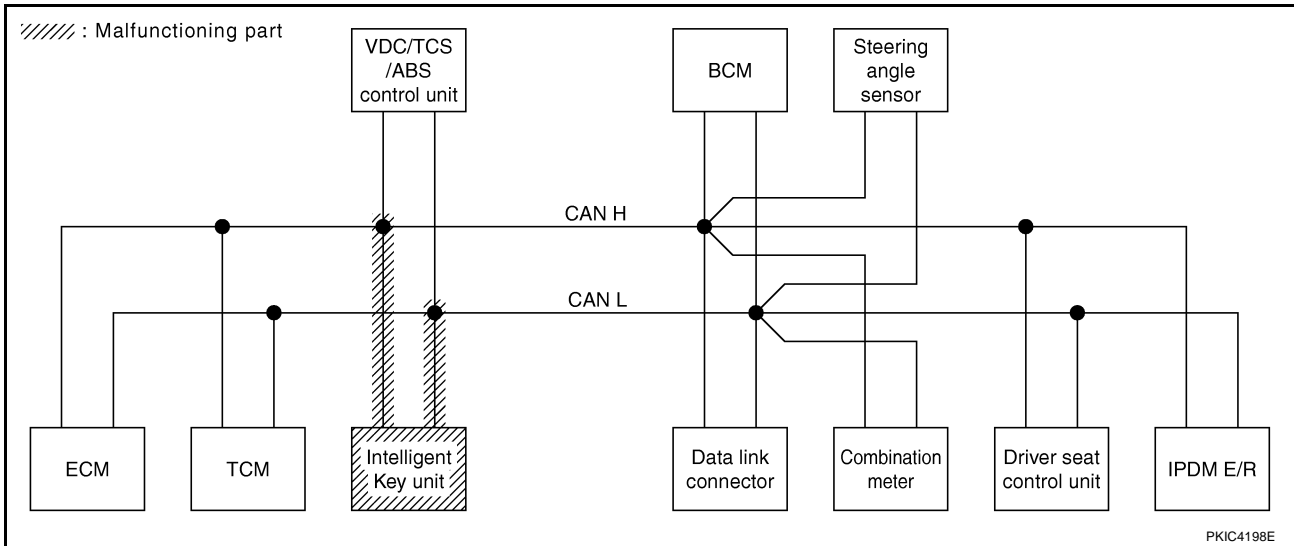
[CAN]

Case 6

Check Intelligent Key unit circuit. Refer to [LAN-129, "Intelligent Key Unit Circuit Inspection"](#).

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

PKIC4316E



PKIC4198E

CAN SYSTEM (TYPE 4)

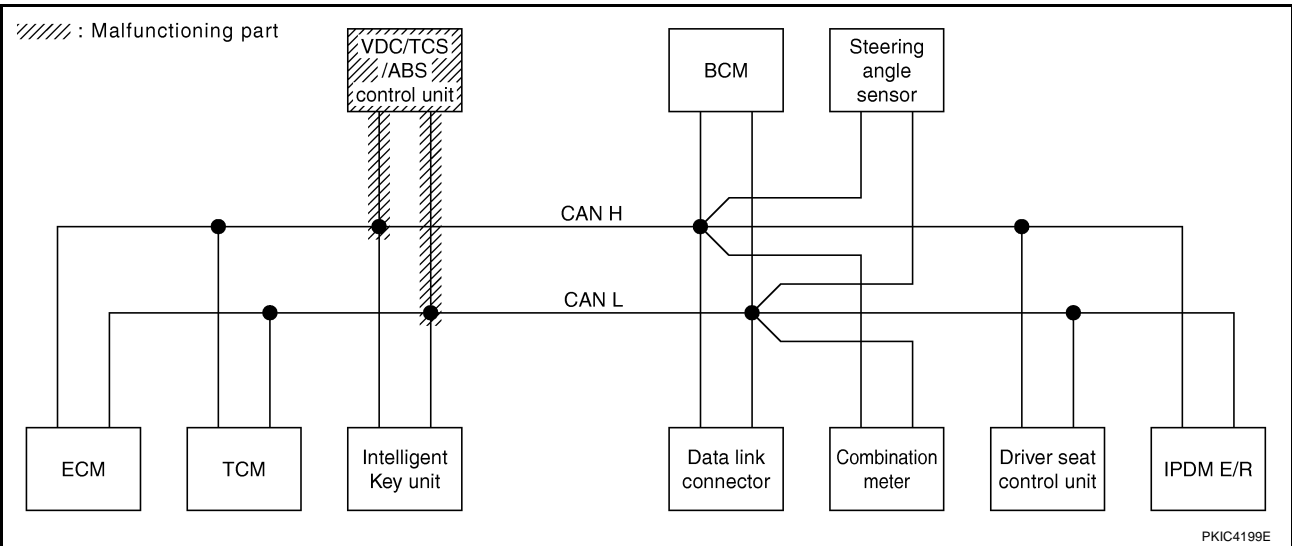
[CAN]

Case 7

Check VDC/TCS/ABS control unit circuit. Refer to [LAN-130, "VDC/TCS/ABS Control Unit Circuit Inspection"](#) .

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

PKIC4317E



LAN

CAN SYSTEM (TYPE 4)

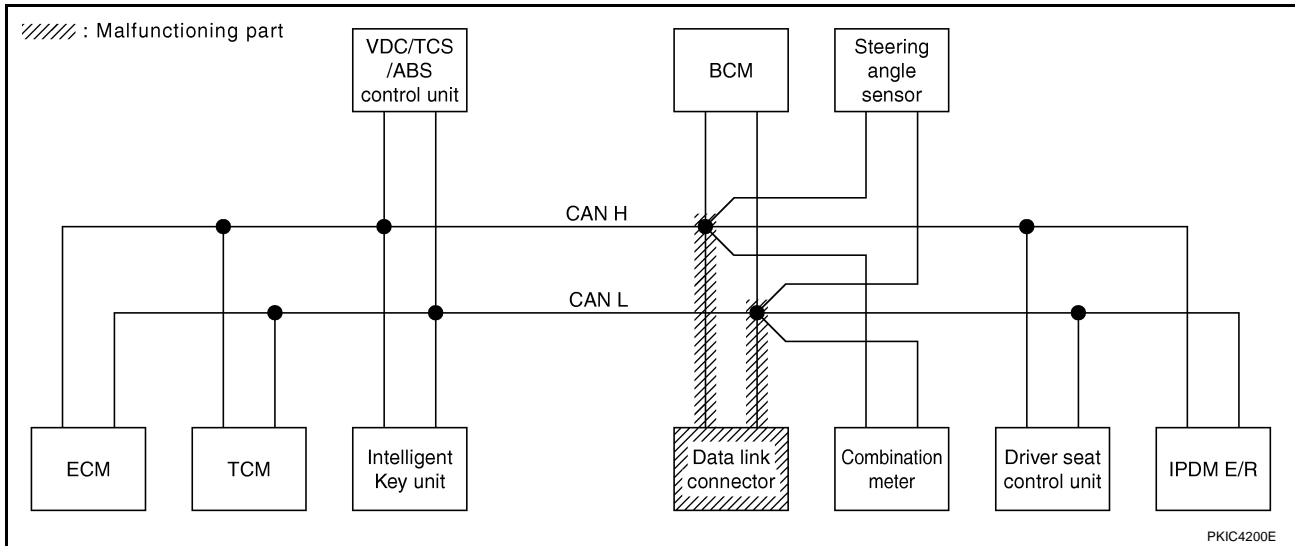
[CAN]

Case 8

Check data link connector circuit. Refer to [LAN-131, "Data Link Connector Circuit Inspection"](#) .

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

PKIC4318E



CAN SYSTEM (TYPE 4)

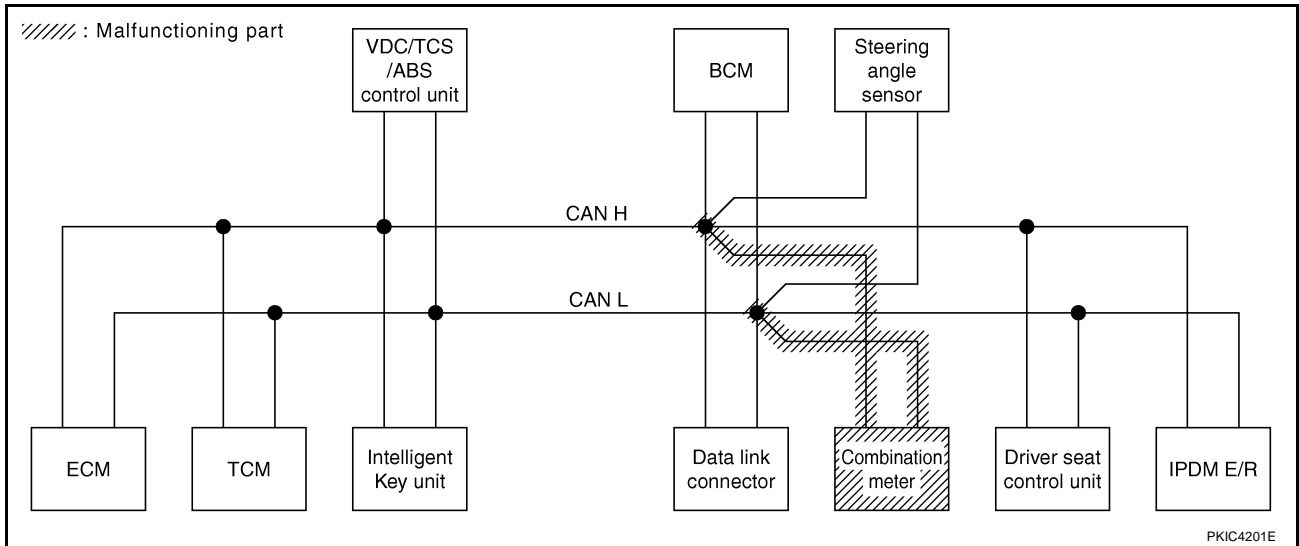
[CAN]

Case 9

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

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

PKIC4319E



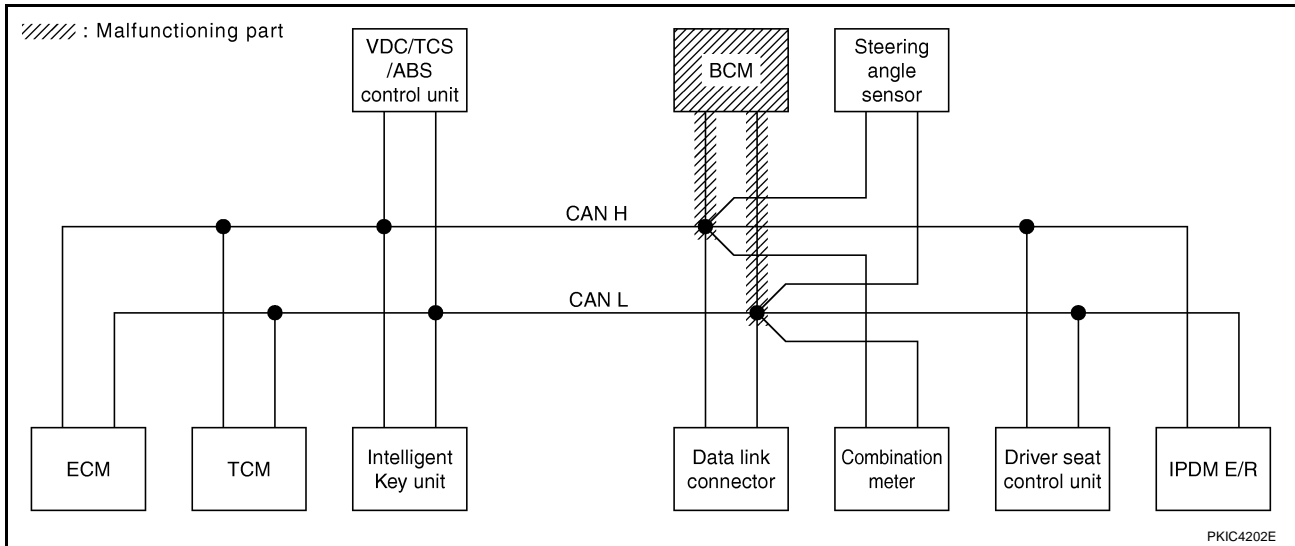
LAN

Case 10

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

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

PKIC4320E

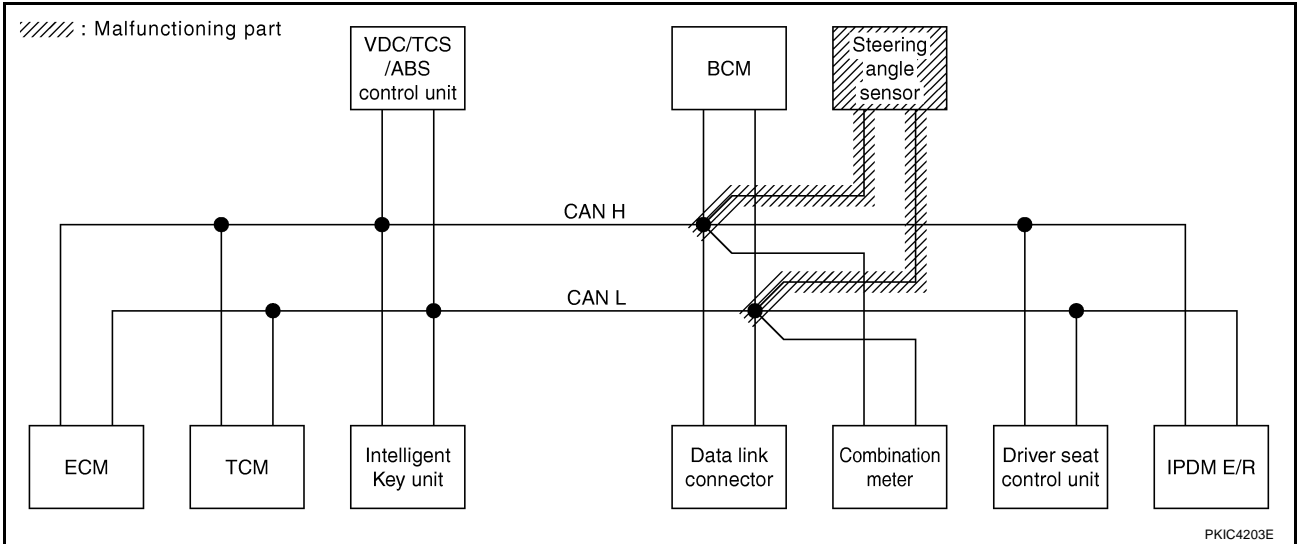


Case 11

Check steering angle sensor circuit. Refer to [LAN-132. "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC4321E



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CAN SYSTEM (TYPE 4)

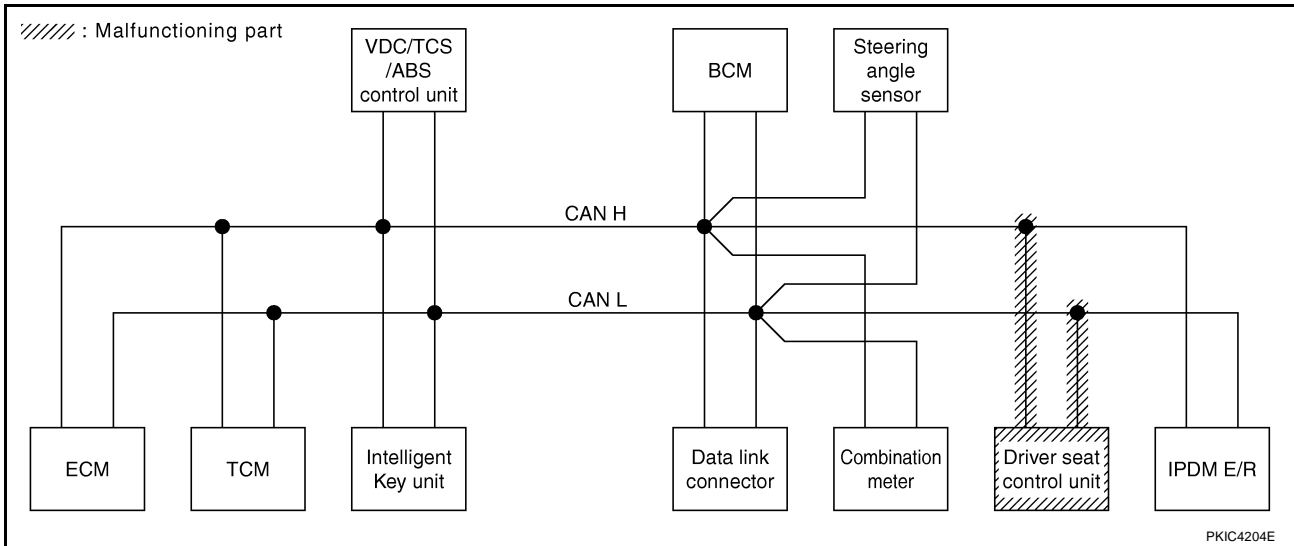
[CAN]

Case 12

Check driver seat control unit circuit. Refer to [LAN-133, "Driver Seat Control Unit Circuit Inspection"](#) .

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

PKIC4322E



CAN SYSTEM (TYPE 4)

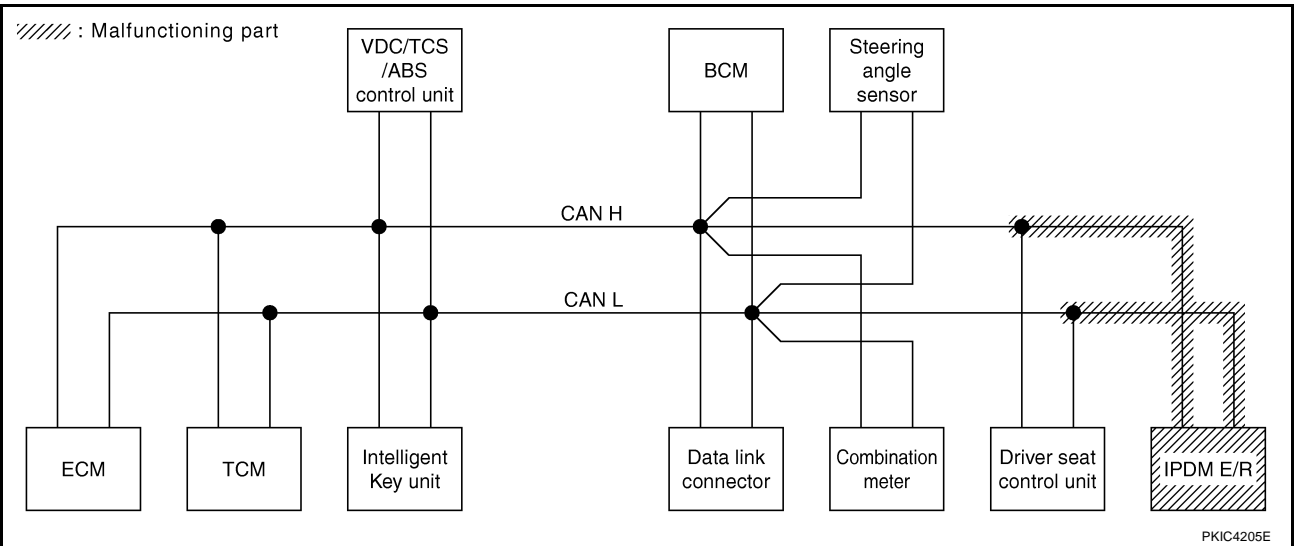
[CAN]

Case 13

Check IPDM E/R circuit. Refer to [LAN-133, "IPDM E/R Circuit Inspection"](#).

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

PKIC4323E



Case 14

Check CAN communication circuit. Refer to [LAN-134, "CAN Communication Circuit Inspection"](#).

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

PKIC4324E

CAN SYSTEM (TYPE 4)

[CAN]

Case 15

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-135, "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	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC4325E

Case 16

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-135, "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	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	—	—	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	—	—	—	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC4326E

CAN SYSTEM (TYPE 5)

[CAN]

CAN SYSTEM (TYPE 5)

PFP:23710

Component Parts and Harness Connector Location

NKS0012T

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Refer to [LAN-22, "Component Parts and Harness Connector Location"](#) .

Schematic

NKS0012U

B

Refer to [LAN-23, "Schematic"](#) .

Wiring Diagram — CAN —

NKS0012V

C

Refer to [LAN-24, "Wiring Diagram — CAN —"](#) .

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CAN SYSTEM (TYPE 5)

[CAN]

NKS0012W

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	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	STRG	IPDM E/R			
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	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

PKIC4157E

CAN SYSTEM (TYPE 5)

[CAN]

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Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

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

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

PKIC4158E

CAN SYSTEM (TYPE 5)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

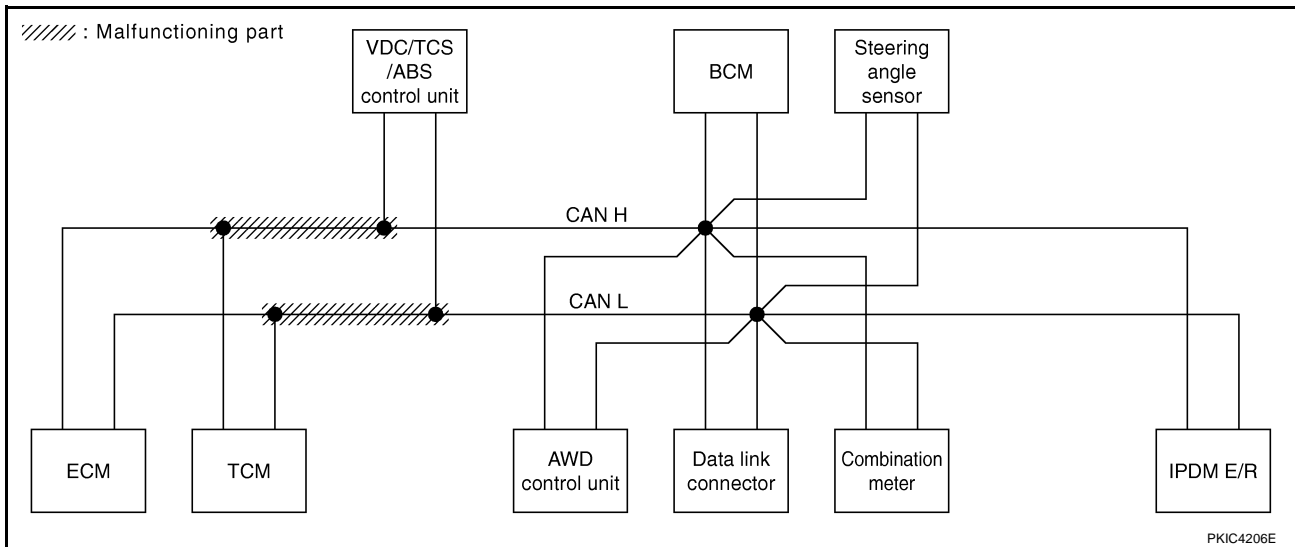
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and VDC/TCS/ABS control unit. Refer to [LAN-126, "Inspection Between TCM and VDC/TCS/ABS Control Unit Circuit"](#).

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

PKIC4327E



PKIC4206E

CAN SYSTEM (TYPE 5)

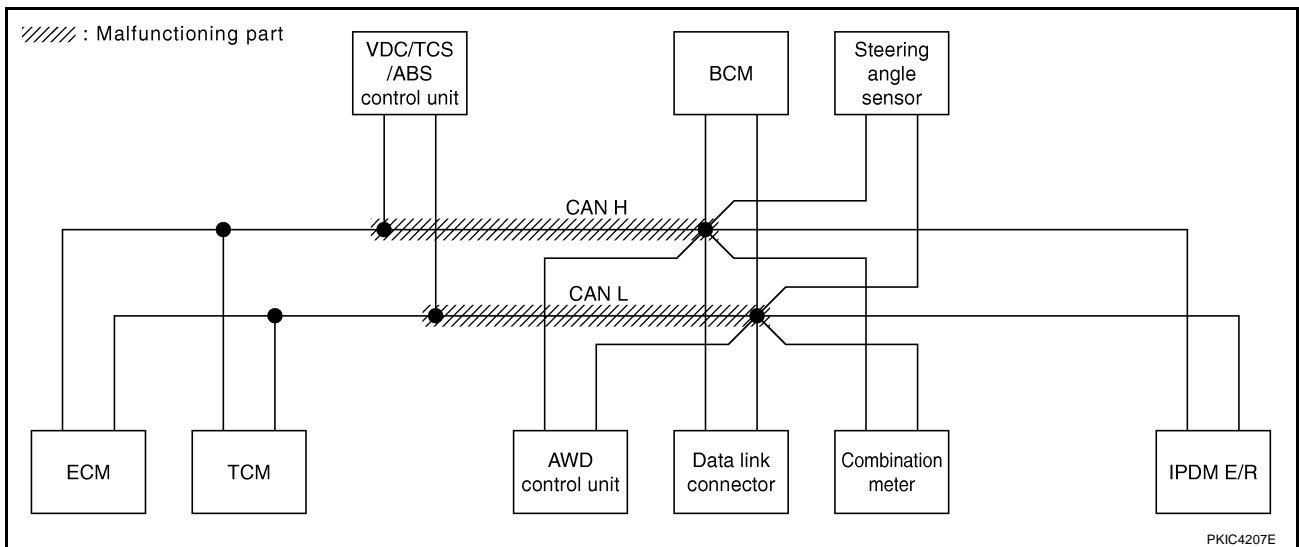
[CAN]

Case 2

Check harness between VDC/TCS/ABS control unit and data link connector. Refer to [LAN-127, "Inspection Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit"](#) .

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

PKIC4328E



PKIC4207E

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CAN SYSTEM (TYPE 5)

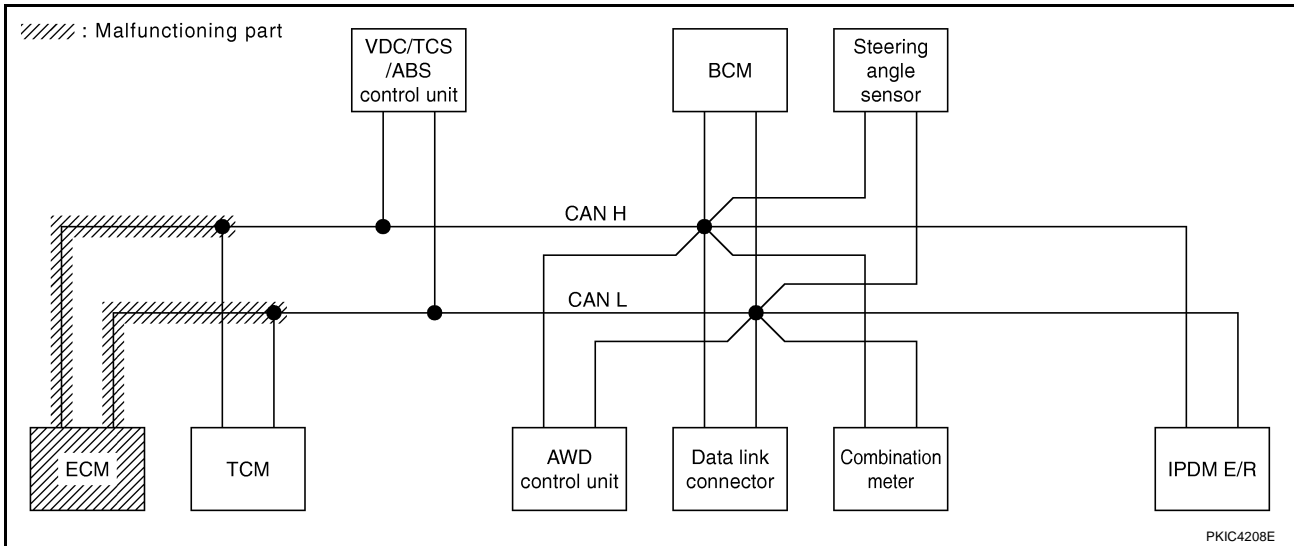
[CAN]

Case 3

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

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

PKIC4329E



PKIC4208E

CAN SYSTEM (TYPE 5)

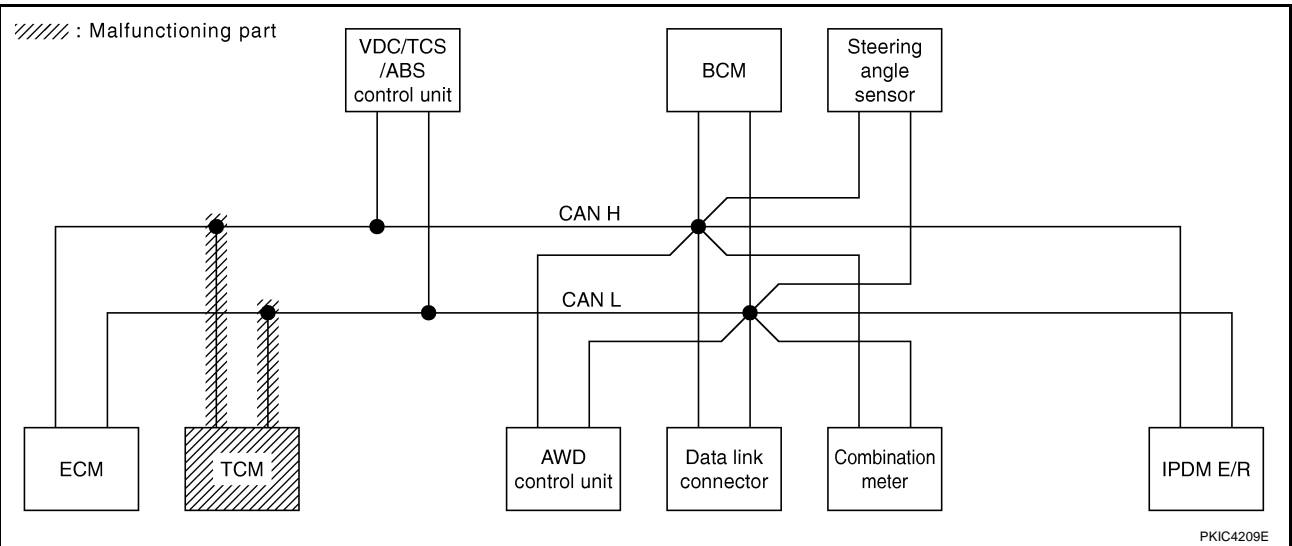
[CAN]

Case 4

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

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

PKIC4330E



LAN

CAN SYSTEM (TYPE 5)

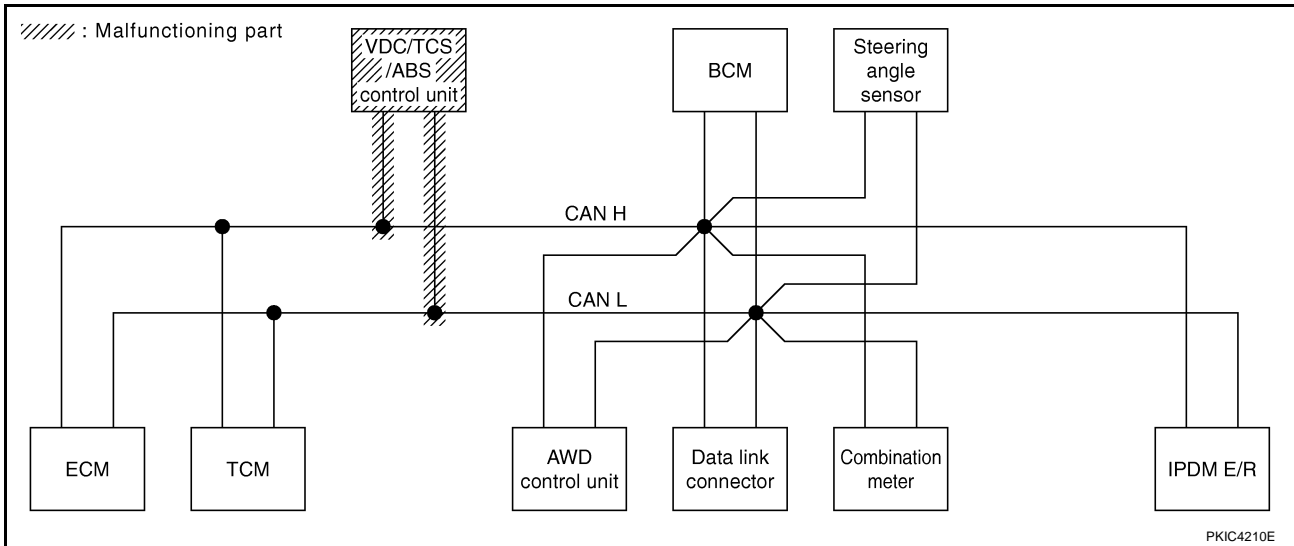
[CAN]

Case 5

Check VDC/TCS/ABS control unit circuit. Refer to [LAN-130, "VDC/TCS/ABS Control Unit Circuit Inspection"](#) .

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

PKIC4331E



CAN SYSTEM (TYPE 5)

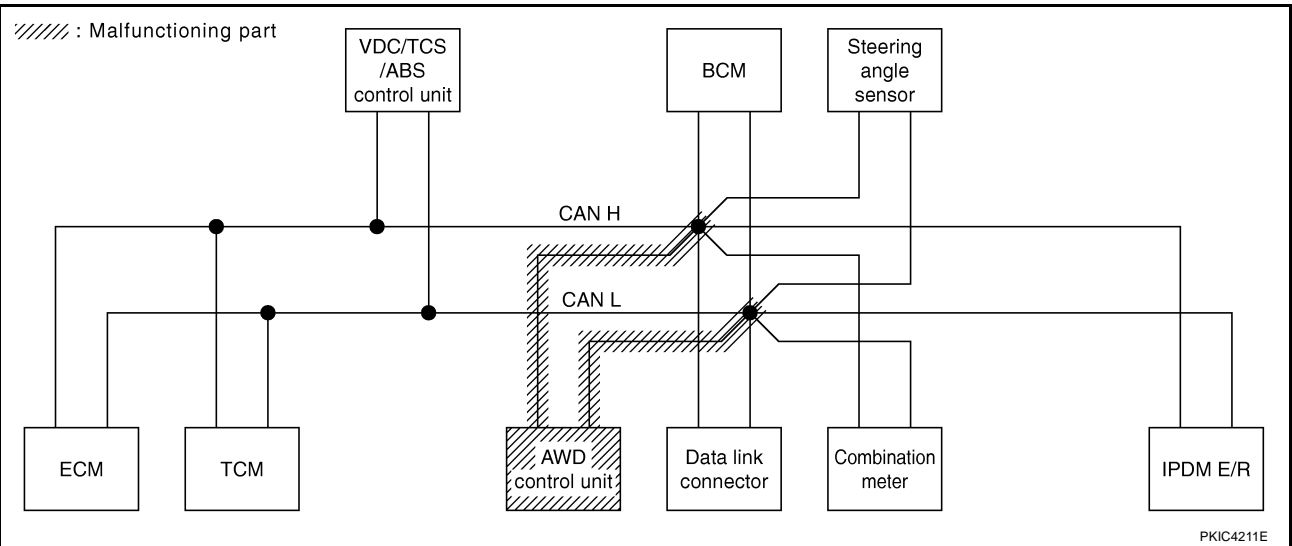
[CAN]

Case 6

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

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

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CAN SYSTEM (TYPE 5)

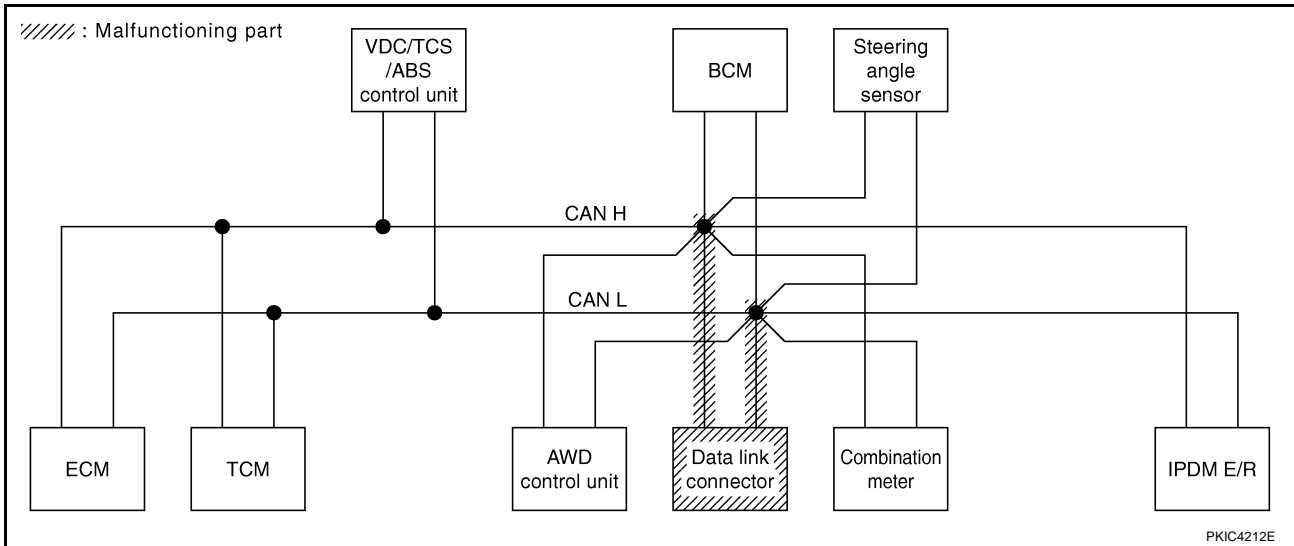
[CAN]

Case 7

Check data link connector circuit. Refer to [LAN-131, "Data Link Connector Circuit Inspection"](#) .

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

PKIC4333E



CAN SYSTEM (TYPE 5)

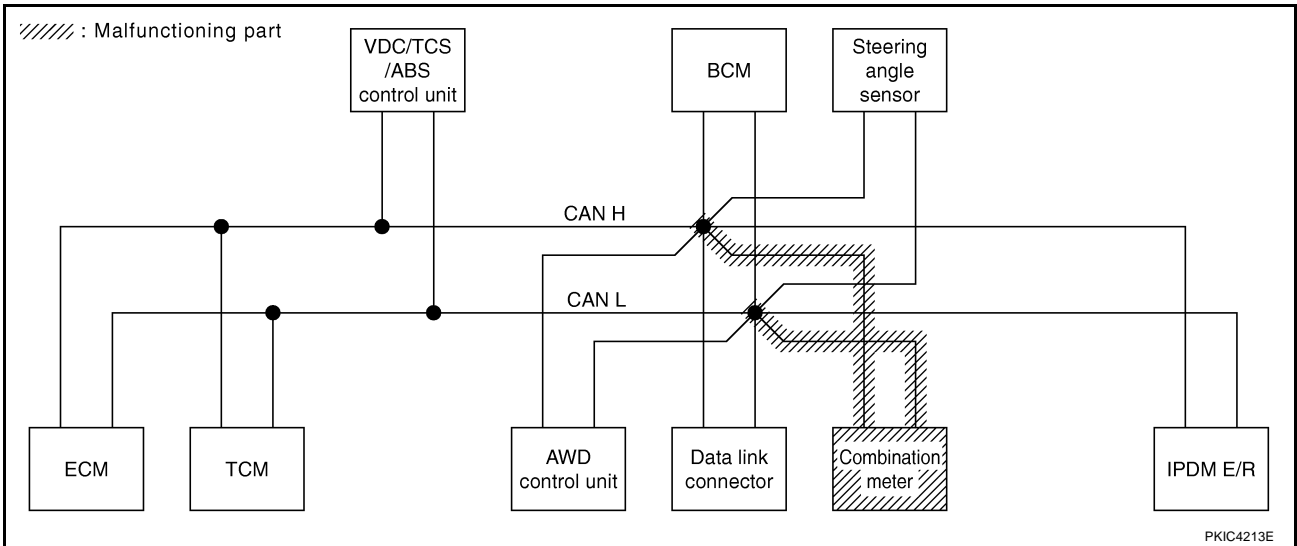
[CAN]

Case 8

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R
				ECM	TCM	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	STRG				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	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)

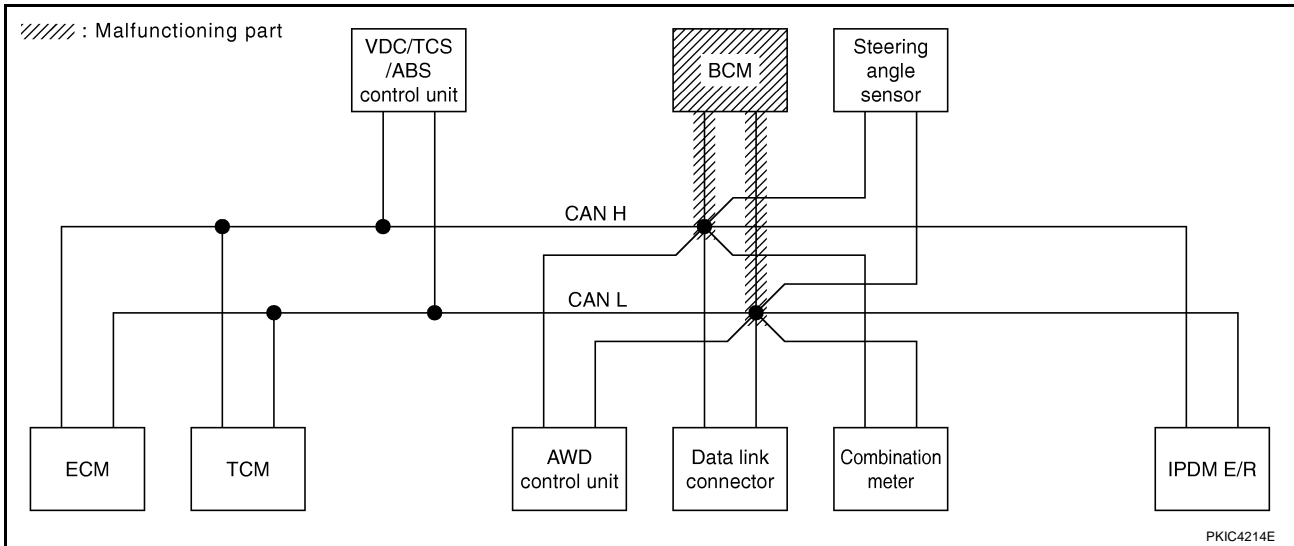
[CAN]

Case 9

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

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

PKIC4335E



CAN SYSTEM (TYPE 5)

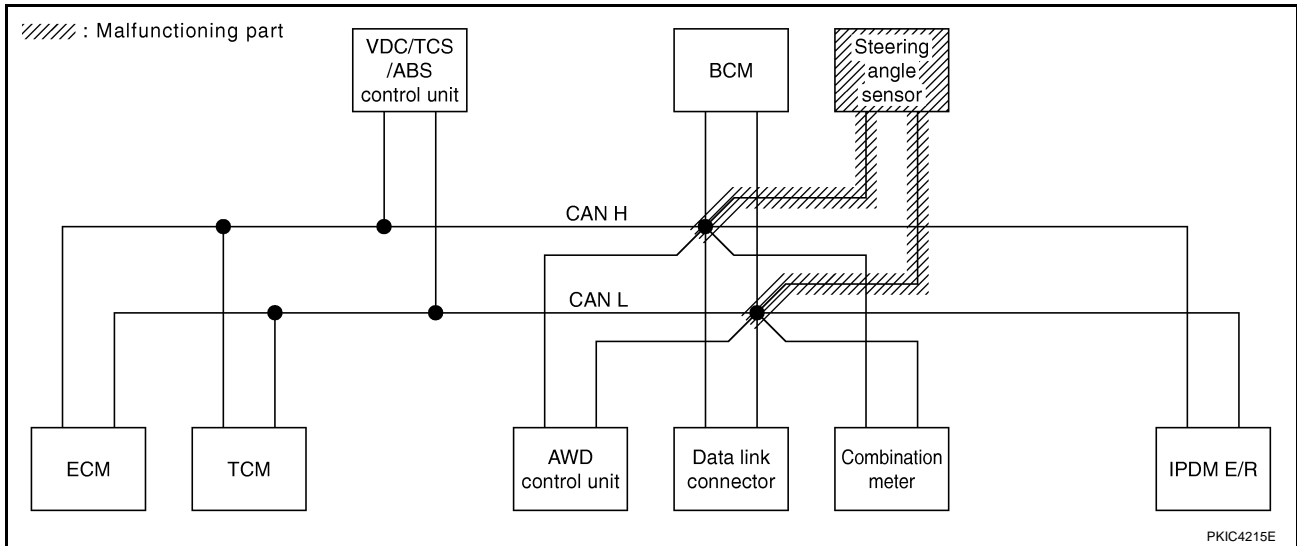
[CAN]

Case 10

Check steering angle sensor circuit. Refer to [LAN-132. "Steering Angle Sensor Circuit Inspection"](#) .

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

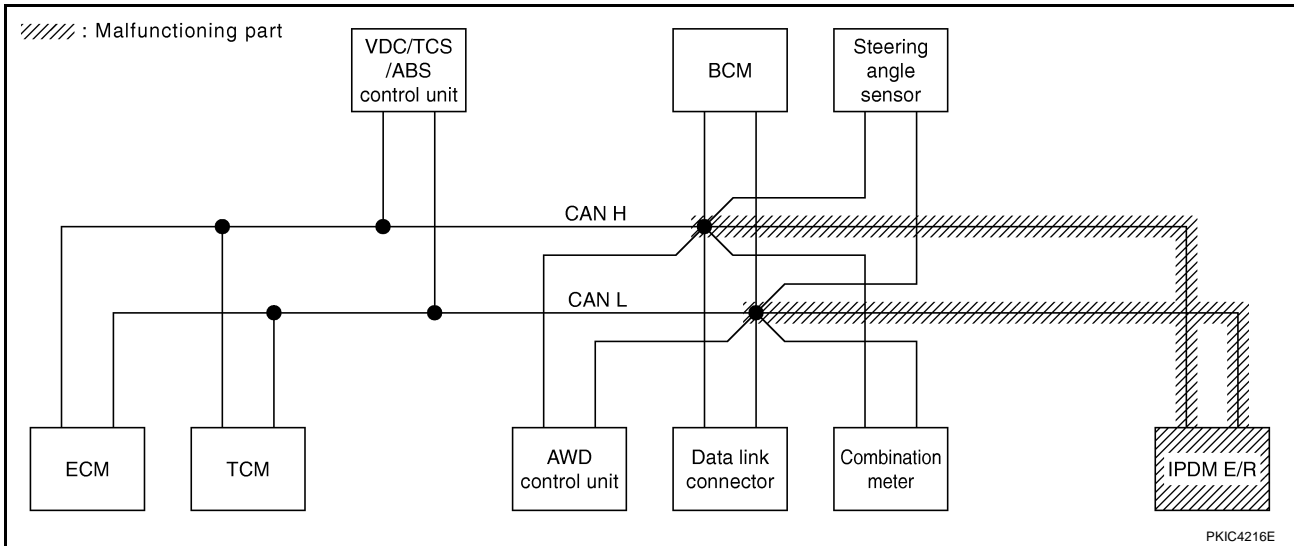
[CAN]

Case 11

Check IPDM E/R circuit. Refer to [LAN-133, "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	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	STRG				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC4337E



Case 12

Check CAN communication circuit. Refer to [LAN-134, "CAN Communication Circuit Inspection"](#) .

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

PKIC4338E

CAN SYSTEM (TYPE 5)

[CAN]

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-135, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC4339E

Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-135, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										IPDM E/R
				ECM	TCM	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	STRG				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	—	—	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	—	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
ALL MODE AWD/4WD	—	NG	UNKWN	—	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—	
BCM	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)

PFP:23710

Component Parts and Harness Connector Location

NKS00138

Refer to [LAN-22, "Component Parts and Harness Connector Location"](#) .

Schematic

NKS00139

Refer to [LAN-23, "Schematic"](#) .

Wiring Diagram — CAN —

NKS0013A

Refer to [LAN-24, "Wiring Diagram — CAN —"](#) .

CAN SYSTEM (TYPE 6)

[CAN]

NKS0013B

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

PKIC4159E

CAN SYSTEM (TYPE 6)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

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

Attach copy of
BCM
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

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A/T
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MNTR

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

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC4160E

CAN SYSTEM (TYPE 6)

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

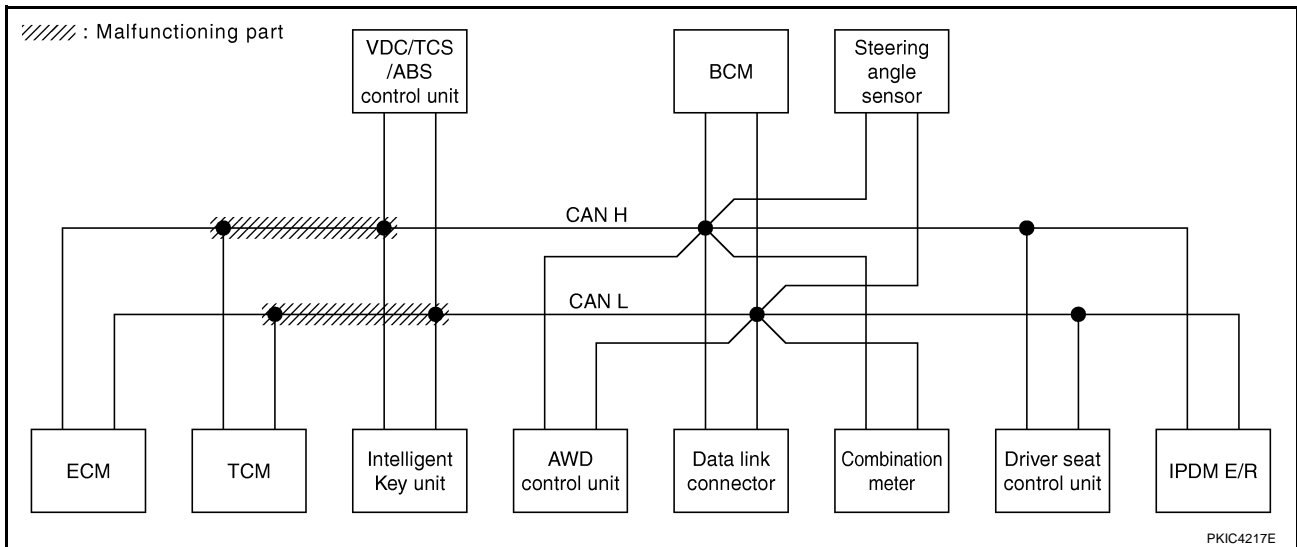
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and VDC/TCS/ABS control unit. Refer to [LAN-126. "Inspection Between TCM and VDC/TCS/ABS Control Unit Circuit"](#).

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

PKIC4341E



PKIC4217E

CAN SYSTEM (TYPE 6)

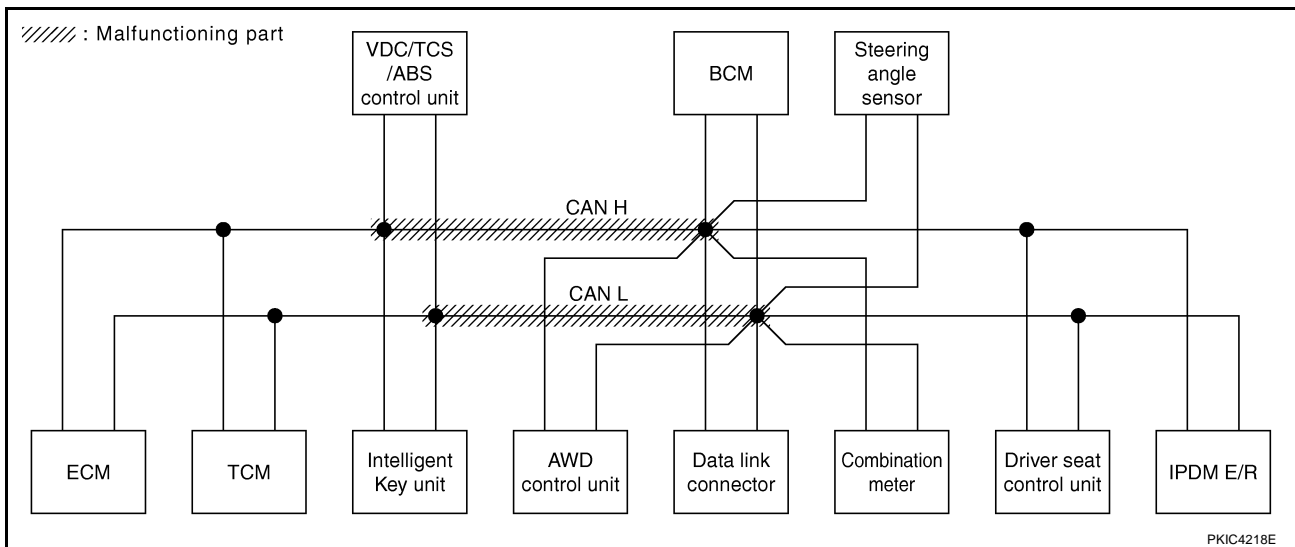
[CAN]

Case 2

Check harness between VDC/TCS/ABS control unit and data link connector. Refer to [LAN-127, "Inspection Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit"](#) .

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

PKIC4342E



PKIC4218E

CAN SYSTEM (TYPE 6)

[CAN]

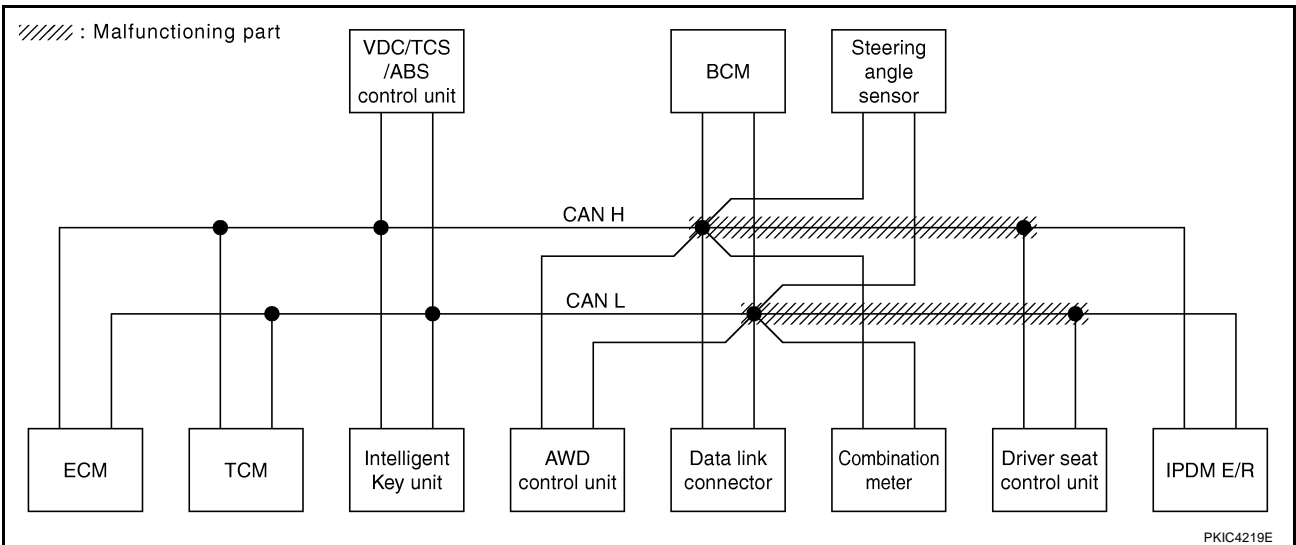
Case 3

Check harness between data link connector and driver seat control unit. Refer to [LAN-127, "Inspection Between Data Link Connector 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	I-KEY	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication ✓	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC4343E



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CAN SYSTEM (TYPE 6)

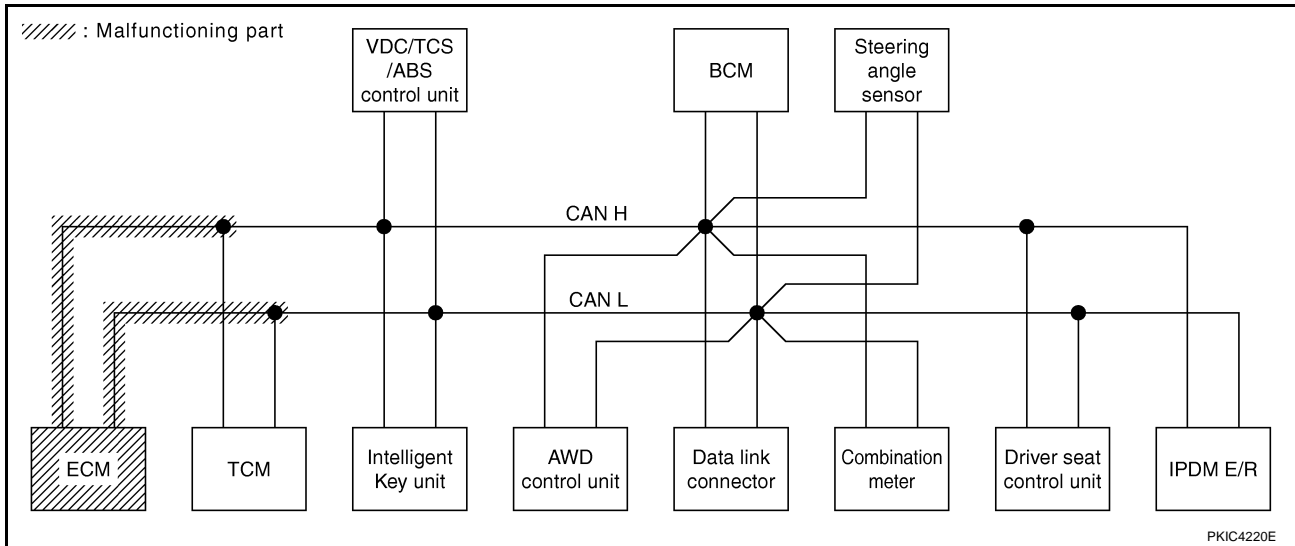
[CAN]

Case 4

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

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

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CAN SYSTEM (TYPE 6)

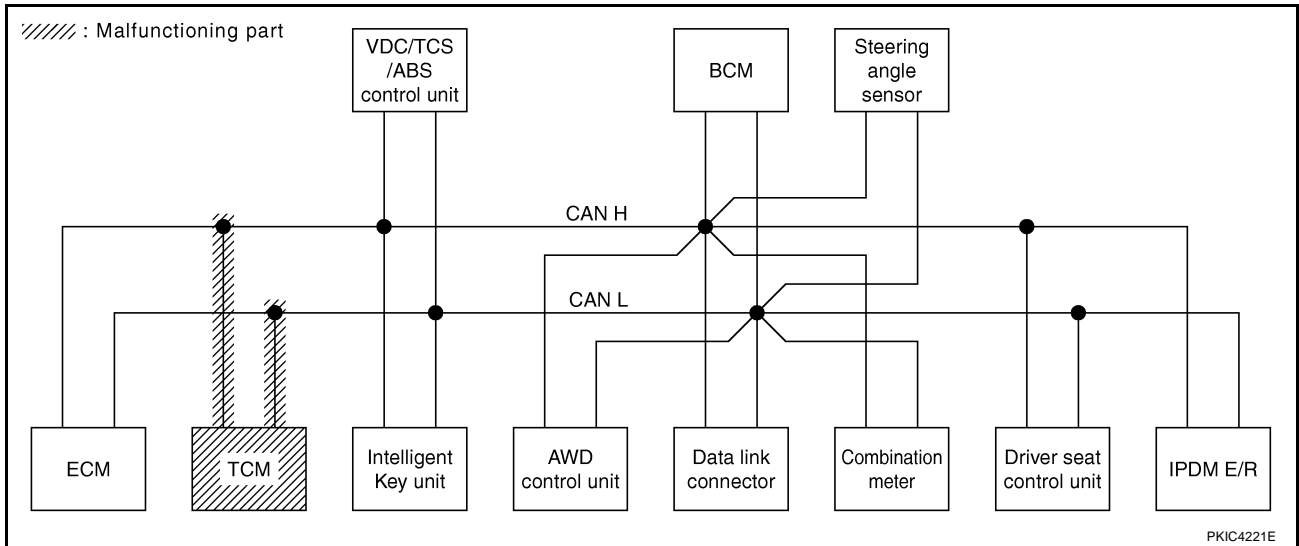
[CAN]

Case 5

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	TCM	I-KEY	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	STRG			IPDM E/R
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100) ✓	CAN COMM CIRCUIT (U1001) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	—	—	—	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)

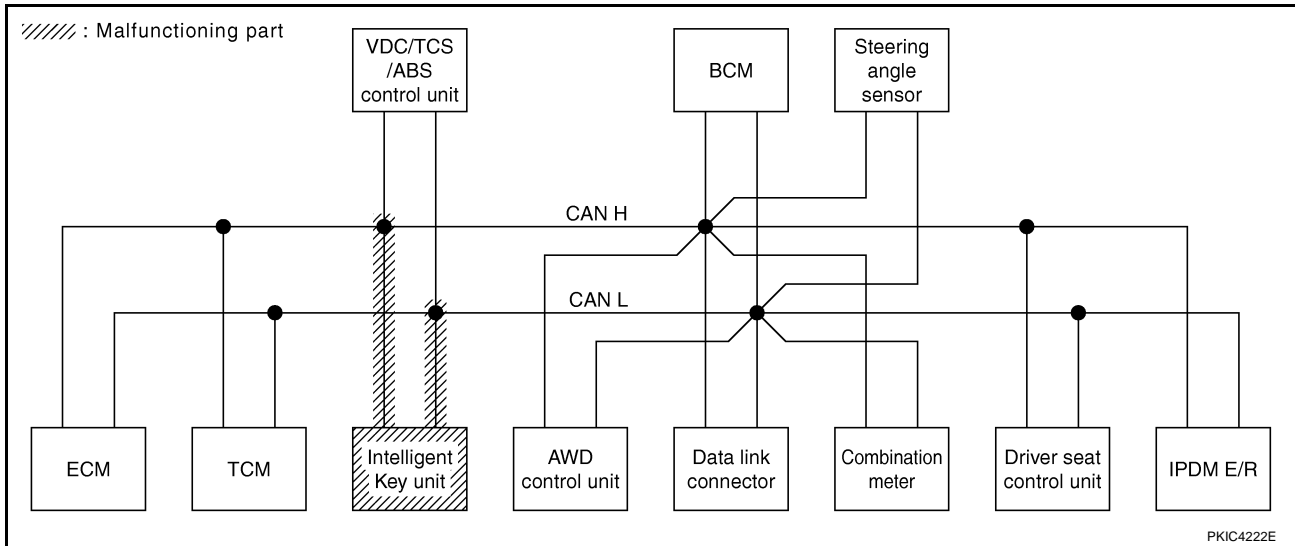
[CAN]

Case 6

Check Intelligent Key unit circuit. Refer to [LAN-129, "Intelligent Key Unit Circuit Inspection"](#) .

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

PKIC4346E



CAN SYSTEM (TYPE 6)

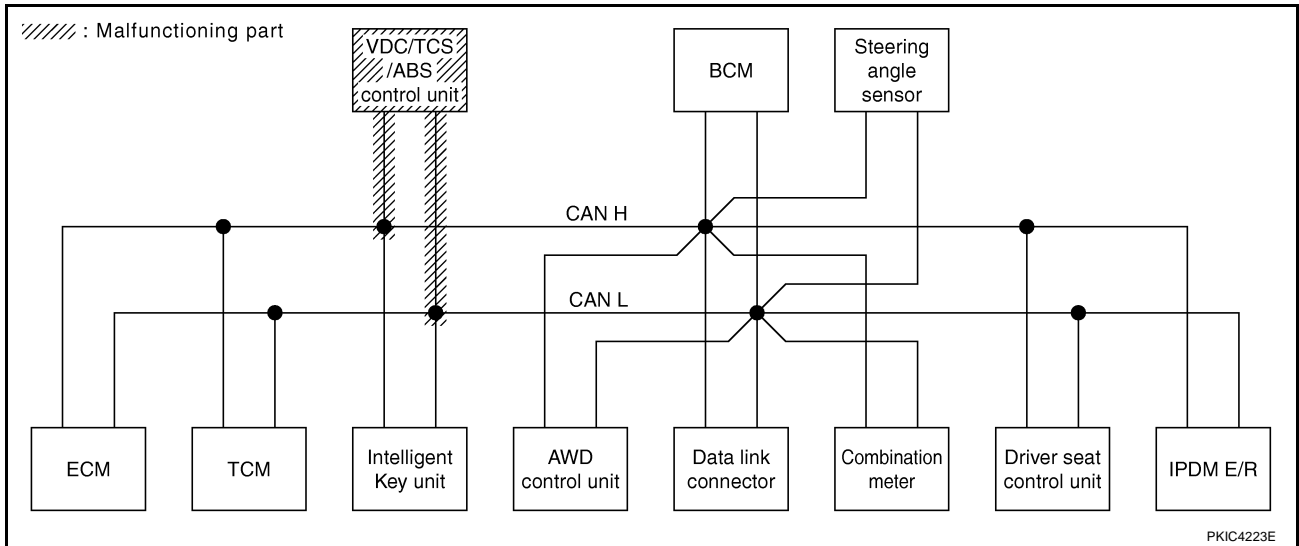
[CAN]

Case 7

Check VDC/TCS/ABS control unit circuit. Refer to [LAN-130, "VDC/TCS/ABS Control Unit Circuit Inspection"](#).

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

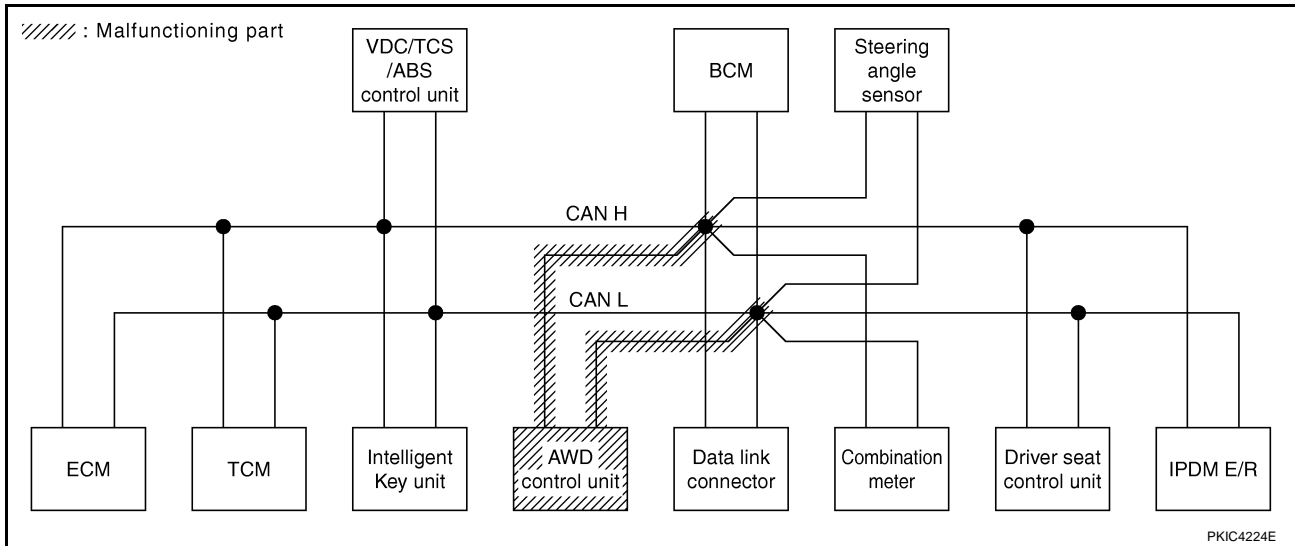
[CAN]

Case 8

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

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

PKIC4348E



CAN SYSTEM (TYPE 6)

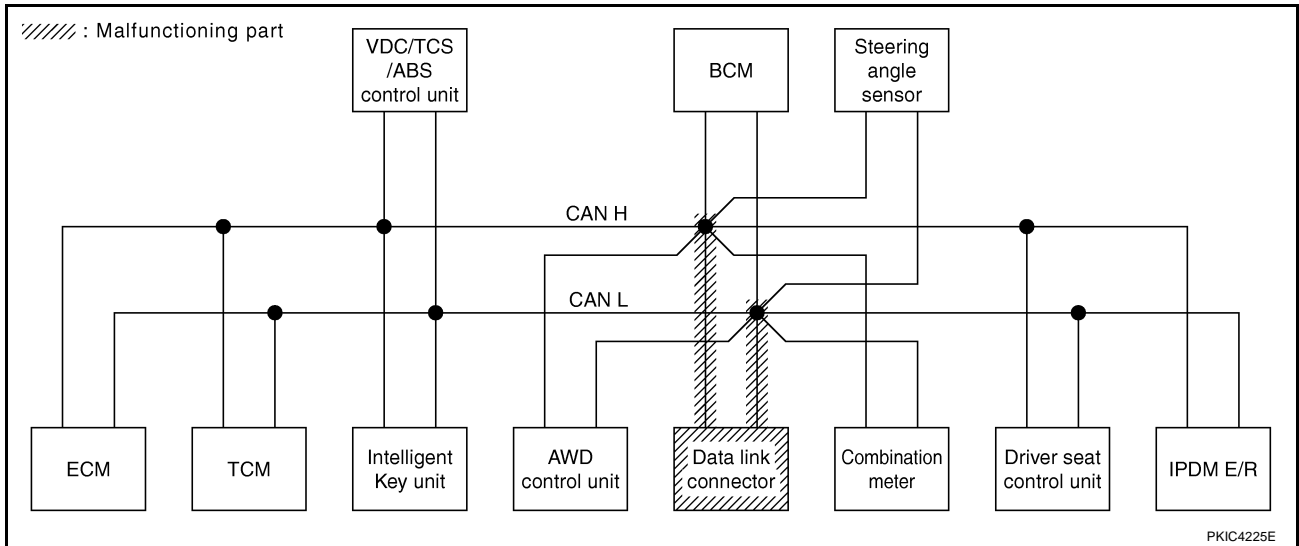
[CAN]

Case 9

Check data link connector circuit. Refer to [LAN-131, "Data Link Connector Circuit Inspection"](#).

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

PKIC4349E



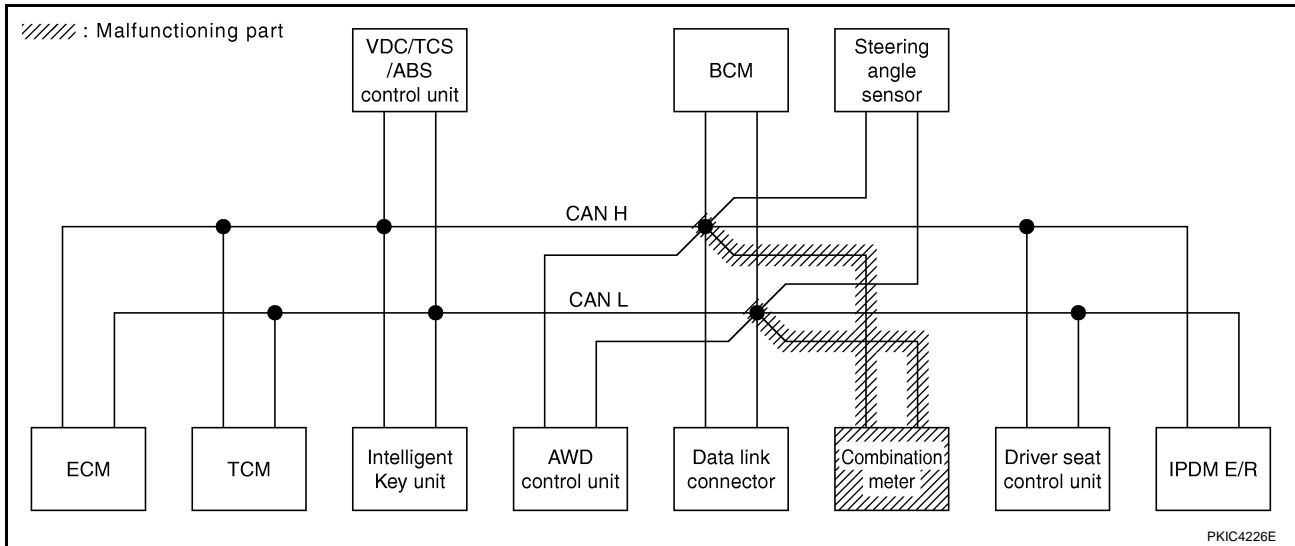
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Case 10

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

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

PKIC4350E



CAN SYSTEM (TYPE 6)

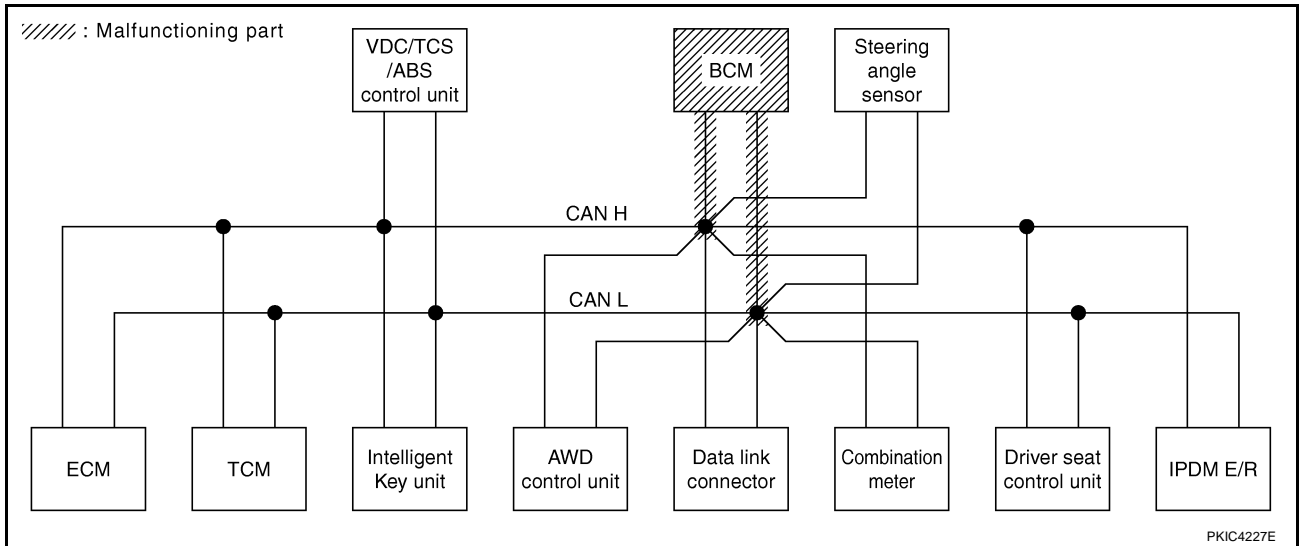
[CAN]

Case 11

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

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

PKIC4351E



LAN

CAN SYSTEM (TYPE 6)

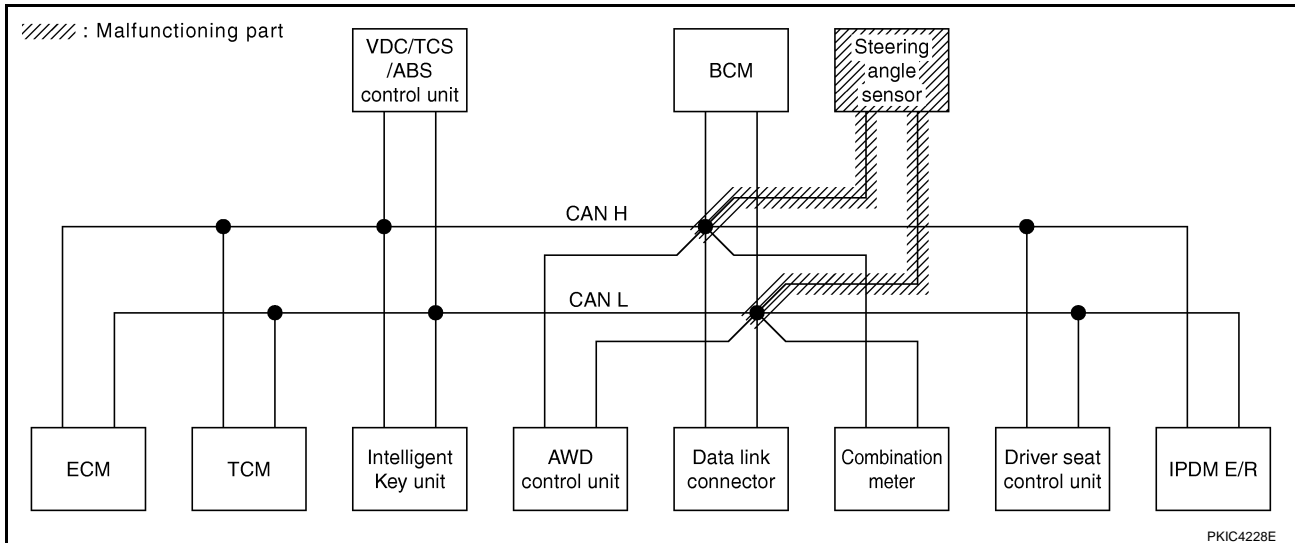
[CAN]

Case 12

Check steering angle sensor circuit. Refer to [LAN-132, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC4352E



PKIC4228E

CAN SYSTEM (TYPE 6)

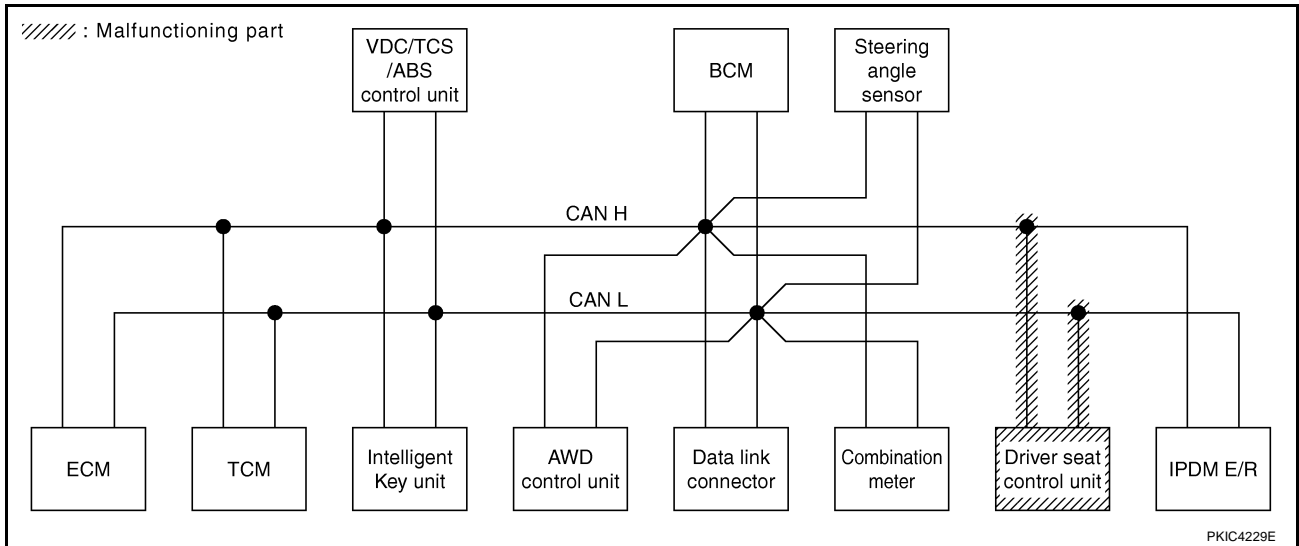
[CAN]

Case 13

Check driver seat control unit circuit. Refer to [LAN-133, "Driver Seat Control Unit Circuit Inspection"](#) .

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

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LAN

CAN SYSTEM (TYPE 6)

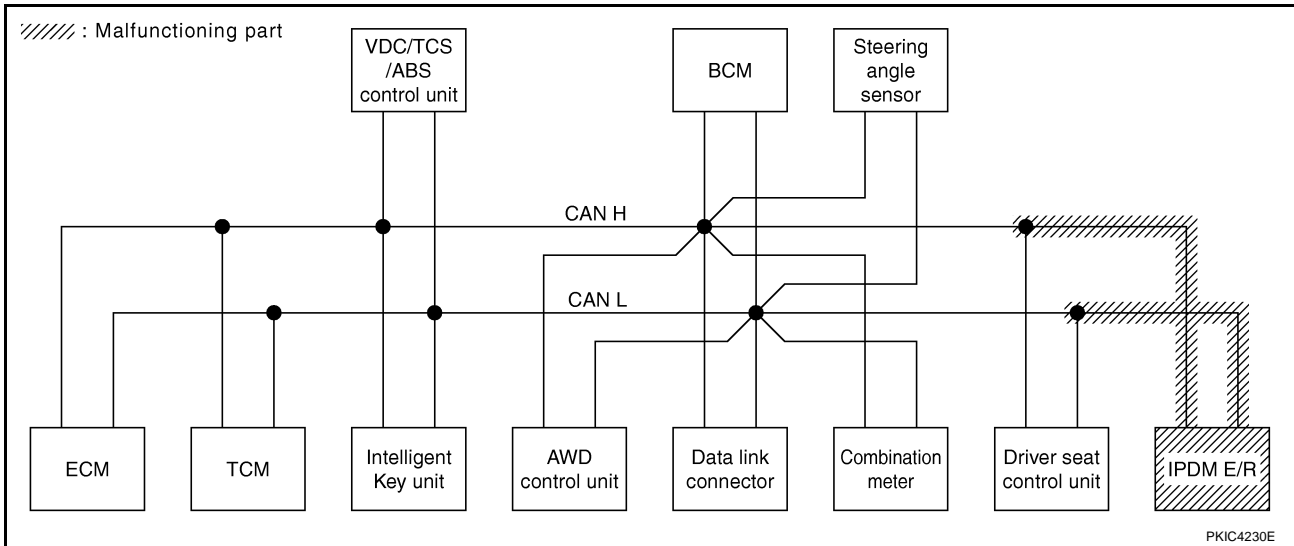
[CAN]

Case 14

Check IPDM E/R circuit. Refer to [LAN-133, "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	I-KEY	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	STRG				
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—	
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	—	
AUTO DRIVE POS.	No indication	—	—	—	UNKWN	—	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	

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Case 15

Check CAN communication circuit. Refer to [LAN-134, "CAN Communication Circuit Inspection"](#) .

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

PKIC4355E

CAN SYSTEM (TYPE 6)

[CAN]

Case 16

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-135, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC4356E

Case 17

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-135, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC4357E

TROUBLE DIAGNOSIS FOR SYSTEM

PFP:00000

Inspection Between TCM and VDC/TCS/ABS Control Unit Circuit

NKS002E0

1. CHECK CONNECTOR

1. Turn 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 F102
 - Harness connector M72

OK or NG

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

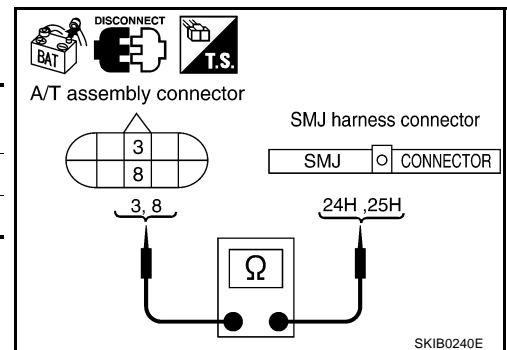
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector and harness connector F102.
2. Check continuity between A/T assembly harness connector and harness connector.

A/T assembly connector	Terminal	Harness connector	Terminal	Continuity
F42	3	F102	24H	Yes
	8		25H	Yes

OK or NG

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



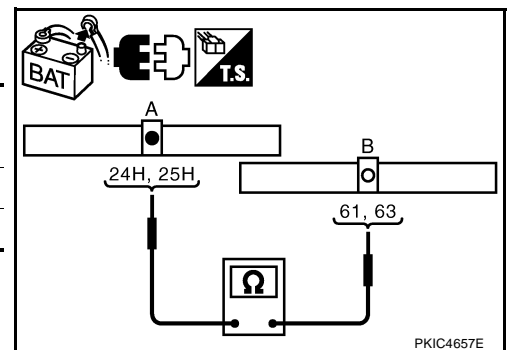
3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and VDC/TCS/ABS control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M72	24H	M93	61	Yes
	25H		63	Yes

OK or NG

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



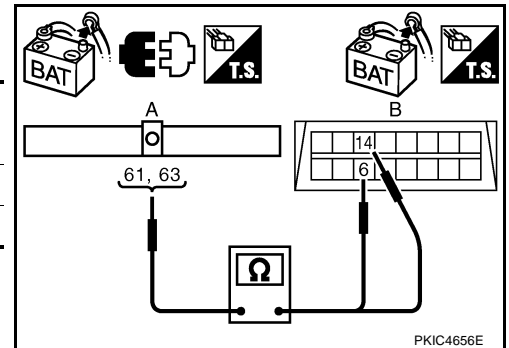
Inspection Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit

NKS002ER

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 VDC/TCS/ABS control unit connector.
4. Check continuity between VDC/TCS/ABS control unit harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M93	61	M8	6	Yes
	63		14	Yes



OK or NG

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

Inspection Between Data Link Connector and Driver Seat Control Unit Circuit

NKS002ES

1. CHECK CONNECTOR

1. Turn 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 M12
 - Harness connector B1

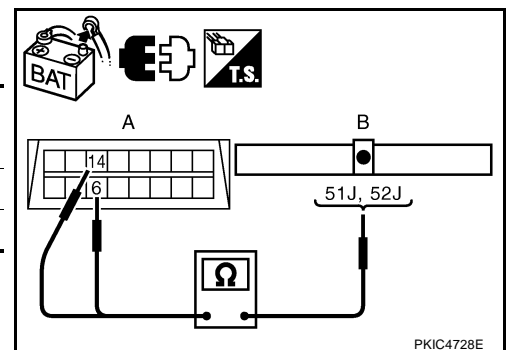
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M12.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M8	6	M12	52J	Yes
	14		51J	Yes



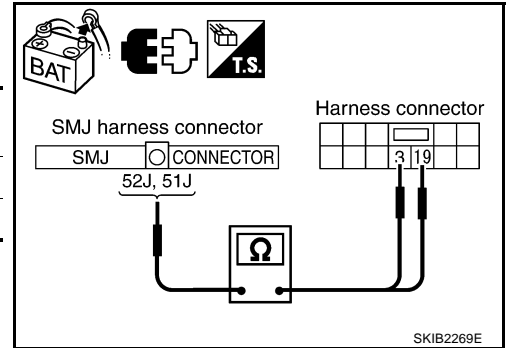
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector B6.
2. Check continuity between harness connector and harness connector.

Harness connector	Terminal	Harness connector	Terminal	Continuity
B1	52J	B6	3	Yes
	51J		19	Yes



OK or NG

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

ECM Circuit Inspection

NKS0012F

1. CHECK CONNECTOR

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

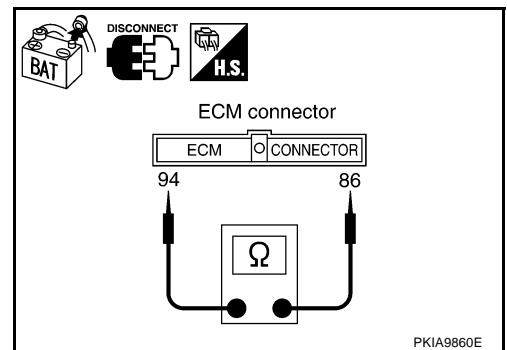
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

ECM connector	Terminal		Resistance (Approx.)
F108	94	86	108 – 132 Ω



OK or NG

- OK >> Replace ECM.
- NG >> ● M/T models
 - Repair harness between ECM and VDC/TCS/ABS control unit.
 ● A/T models
 - Repair harness between ECM and A/T assembly.

TCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

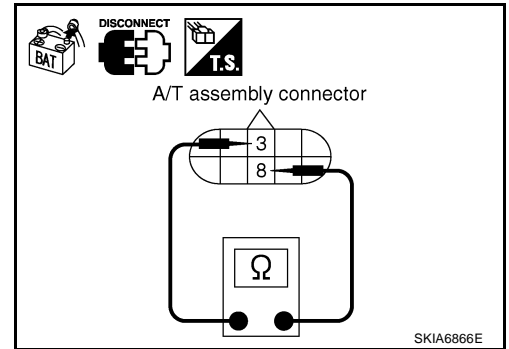
2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

OK or NG

- OK >> Replace control valve with TCM.
 NG >> Repair harness between A/T assembly and harness connector F102.



Intelligent Key Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

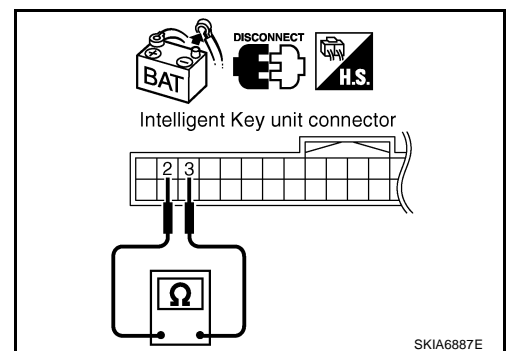
2. CHECK HARNESS FOR OPEN CIRCUIT

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

Intelligent Key unit connector	Terminal		Resistance (Approx.)
M75	2	3	54 – 66 Ω

OK or NG

- OK >> Replace Intelligent Key unit.
 NG >> Repair harness between Intelligent Key unit and VDC/TCS/ABS control unit.



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VDC/TCS/ABS 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 VDC/TCS/ABS 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.

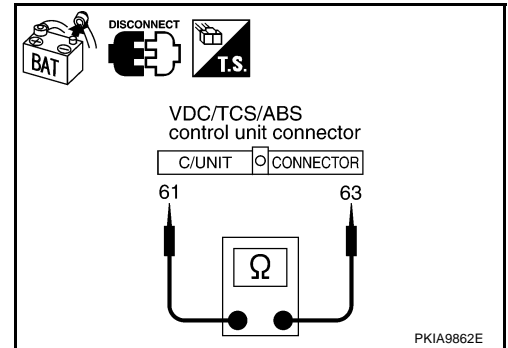
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect VDC/TCS/ABS control unit connector.
2. Check resistance between VDC/TCS/ABS control unit harness connector terminals.

VDC/TCS/ABS control unit connector	Terminal		Resistance (Approx.)
M93	61	63	54 – 66 Ω

OK or NG

- OK >> Replace VDC/TCS/ABS control unit.
 NG >> Repair harness between VDC/TCS/ABS control unit and data link connector.



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.

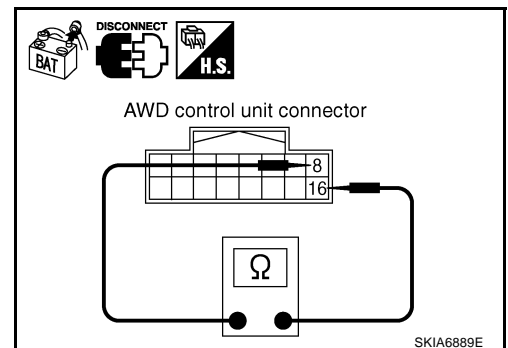
2. CHECK HARNESS FOR OPEN CIRCUIT

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

AWD control unit connector	Terminal		Resistance (Approx.)
M10	8	16	54 – 66 Ω

OK or NG

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



Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

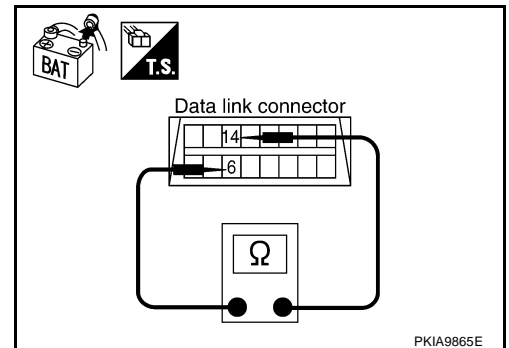
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M8	6	14	54 – 66 Ω

OK or NG

- OK >> Diagnose again. Refer to [LAN-5, "TROUBLE DIAGNOSES WORK FLOW"](#) .
 NG >> Repair harness between data link connector and combination meter.



Combination Meter Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

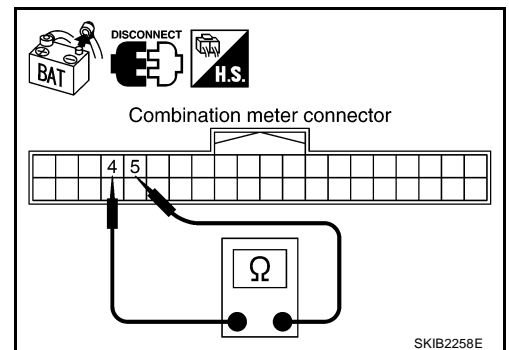
2. CHECK HARNESS FOR OPEN CIRCUIT

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

Combination meter connector	Terminal		Resistance (Approx.)
M19	4	5	54 – 66 Ω

OK or NG

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



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BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

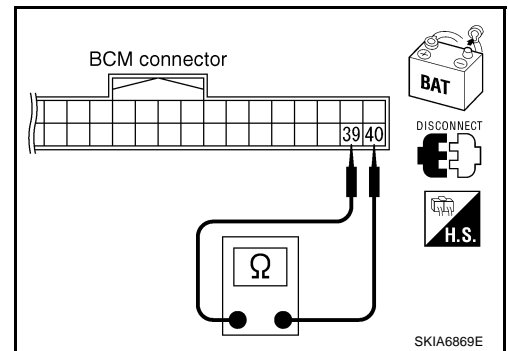
2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

OK or NG

- OK >> Replace BCM. Refer to [BCS-18, "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.

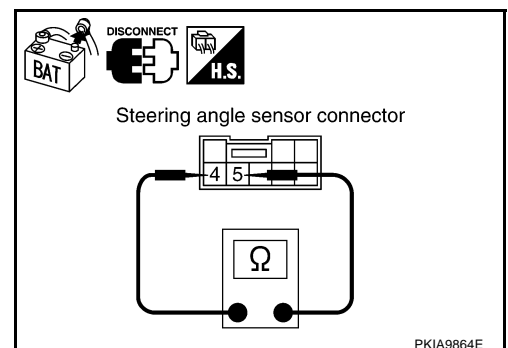
2. CHECK HARNESS FOR OPEN CIRCUIT

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

Steering angle sensor connector	Terminal		Resistance (Approx.)
M22	4	5	54 – 66 Ω

OK or NG

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



Driver Seat Control Unit Circuit Inspection

NKS00120

1. CHECK CONNECTOR

1. Turn 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, connector side and harness side).
 - Driver seat control unit connector
 - Harness connector B6
 - Harness connector B321

OK or NG

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

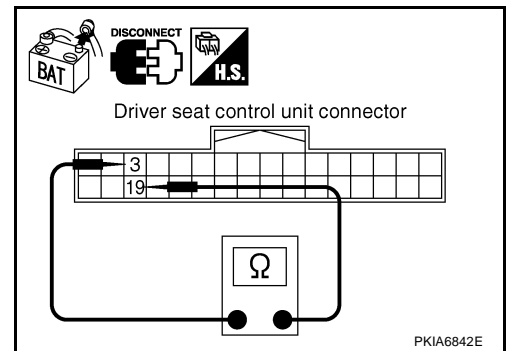
2. CHECK HARNESS FOR OPEN CIRCUIT

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

Driver seat control unit connector	Terminal		Resistance (Approx.)
B324	3	19	54 – 66 Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit and harness connector B2.



NKS0012P

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).
 - Without automatic drive positioner models
 - IPDM E/R connector
 - Harness connector B2
 - Harness connector E106
 - Harness connector M12
 - Harness connector B1
 - With automatic drive positioner models
 - IPDM E/R connector
 - Harness connector B2
 - Harness connector E106

OK or NG

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

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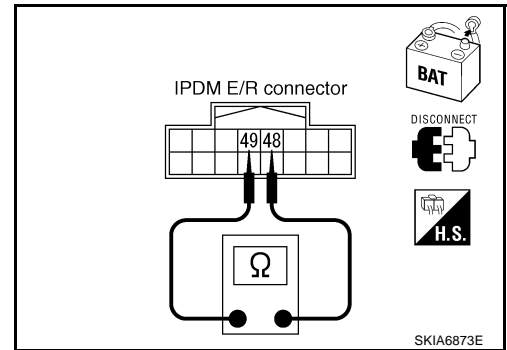
2. CHECK HARNESS FOR OPEN CIRCUIT

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

IPDM E/R connector	Terminal		Resistance (Approx.)
E9	48	49	108 – 132 Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> ● Without automatic drive positioner models
- Repair harness between IPDM E/R and data link connector.
- With automatic drive positioner models
- Repair harness between IPDM E/R and harness connector B6.



CAN Communication Circuit Inspection

NKS0027D

1. CHECK CONNECTOR

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

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

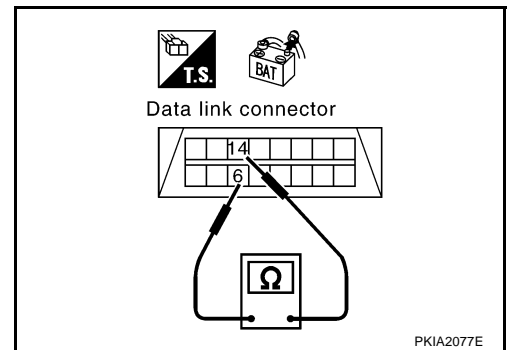
2. CHECK HARNESS FOR SHORT CIRCUIT

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

Data link connector	Terminal		Continuity
M8	6	14	No

OK or NG

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



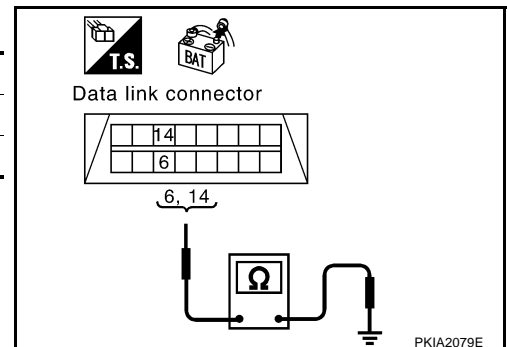
3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector and ground.

Data link connector	Terminal	Ground	Continuity
M8	6		
	14		No

OK or NG

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



4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

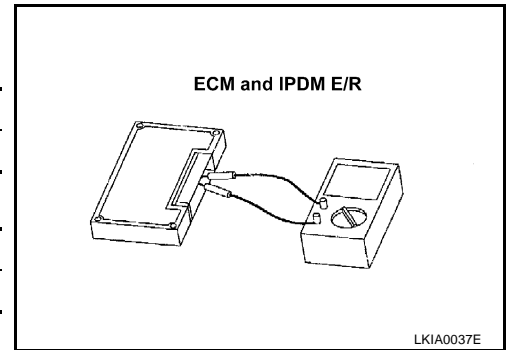
Terminal		Resistance (Approx.)
94	86	108 – 132 Ω

3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
48	49	108 – 132 Ω

OK or NG

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



5. CHECK SYMPTOM

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

OK or NG

- OK >> GO TO 6.
- NG >> Refer to [LAN-13, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#)

6. UNIT REPRODUCIBILITY INSPECTION

Perform the following procedure for each unit on the CAN network, and then perform reproducibility test.

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the “Symptom” of the check sheet is reproduced. (Do not confuse it with the symptom related to removed unit.)
6. Make sure that the same symptom is reproduced.

Inspection results

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

IPDM E/R Ignition Relay Circuit Inspection

NKS0012R

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

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

