

SECTION

LAN

LAN SYSTEM

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PRECAUTIONS

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

BKS0011N

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. 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.

Maintenance Information

BKS0028M

If any of following part is replaced, always replace with new* one.

If it's not (or fail to do so), the electrical system may not be operated properly.

*: New one means a virgin control unit that has never been energized on-board.

RHD MODELS

- BCM (Models without Intelligent Key system)
- Intelligent Key unit (Models with Intelligent Key system)
- ECM
- IPDM E/R
- Combination meter
- EPS control unit

LHD MODELS

- BCM (Models without Intelligent Key system)
- Intelligent Key unit (Models with Intelligent Key system)
- ECM

Precautions When Using CONSULT-II

BKS0011O

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

CAUTION:

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

CHECK POINTS FOR USING CONSULT-II

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

PRECAUTIONS

[CAN]

Precautions for Trouble Diagnosis

BKS001IP

CAN SYSTEM

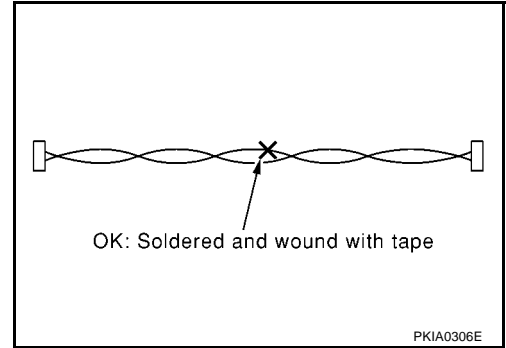
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precautions for Harness Repair

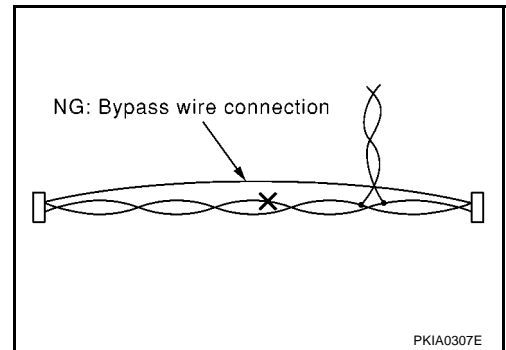
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CAN SYSTEM

- 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

BKS001HW

WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

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

WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

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

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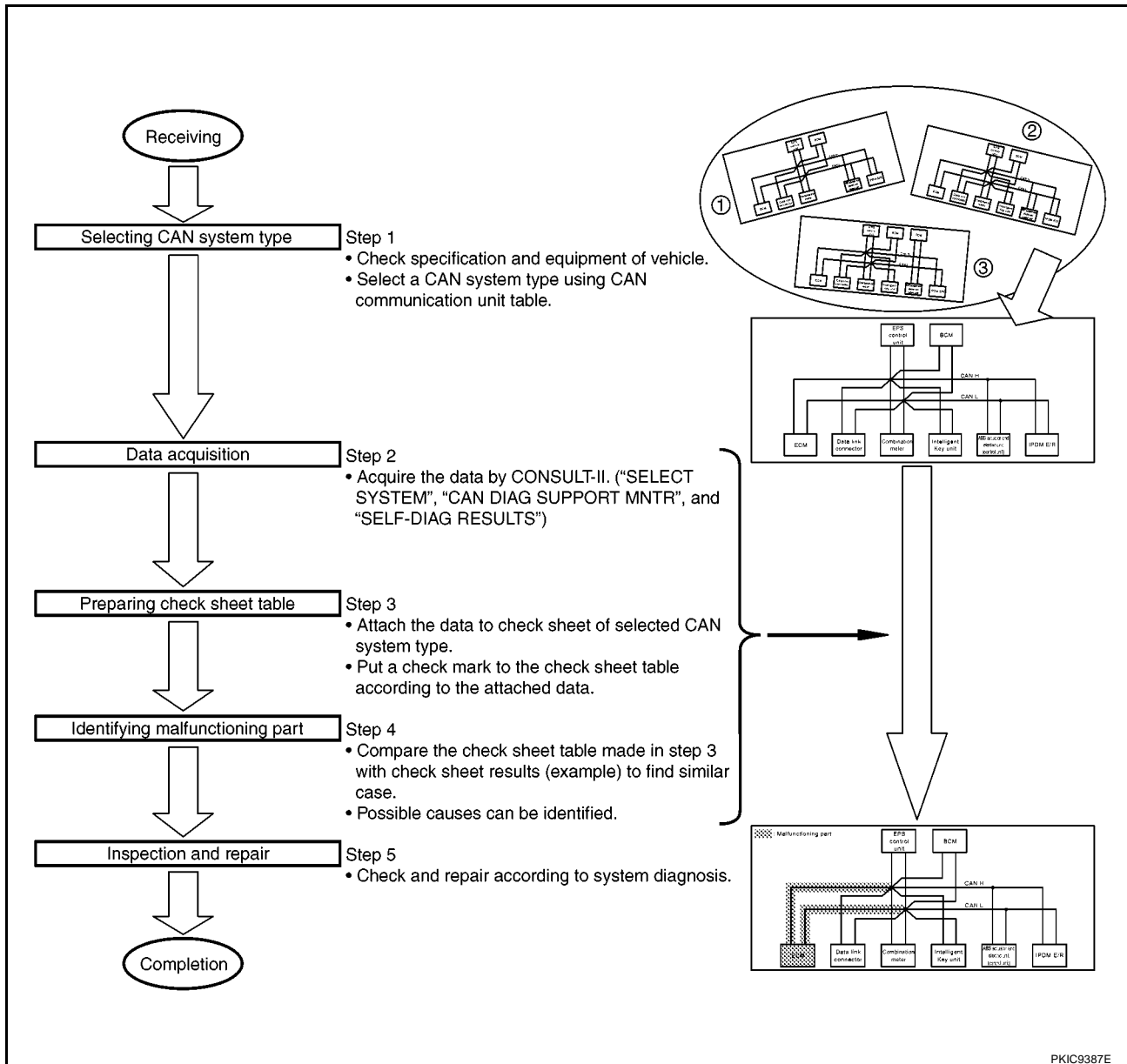
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TROUBLE DIAGNOSIS FLOW CHART

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



- Step 1: Refer to [LAN-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-179, "TROUBLE DIAGNOSIS FOR SYSTEM"](#) .

Diagnosis Procedure**SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)**

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

(Example) Hatchback/2WD/CR14DE/MT/ABS/With Intelligent Key system

CAN Communication Unit

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

Body type	Hatchback									
Axle	2WD									
Engine	CR14DE/HR16DE				HR16DE		K9K			
Transmission	M/T				A/T		M/T			
Brake control	ABS		ESP		ABS		ABS		ESP	
Intelligent Key system		x		x		x		x		x
CAN system type	1	2	3	4	5	6	7	8	9	10
CAN system trouble diagnosis	XXXX	XX:XX	XX:XX	XXXX	XXXX	XX:XX	XX:XX	XX:XX	XXXX	XXXX

Check basic specification of the vehicle.

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

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

In the case of this example:
It corresponds to type 2.

x: Applicable

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[CAN]

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

The diagram illustrates two parallel vertical sequences of buttons. The left sequence consists of seven buttons: 'SELECT SYSTEM', 'ENGINE', 'AIR BAG', 'ABS', 'EPS', 'IPDM E/R', and 'BCM'. The right sequence consists of eight buttons: 'SELECT SYSTEM', 'AIR BAG', 'ABS', 'EPS', 'IPDM E/R', 'BCM', and 'INTELLIGENT KEY'. Below the left sequence is a 'Page Down' button, which is part of a larger control area containing three additional buttons: 'BACK', 'LIGHT', and 'COPY'. Similarly, below the right sequence is a 'Page Up' button, which is part of a larger control area containing three additional buttons: 'BACK', 'LIGHT', and 'COPY'.

Check sheet table		CAN DIAG SUPPORT MTRX										SELF-DIAG RESULTS	
SELECT SYSTEM screen		J1939 diagnosis	Tansen diagnosis	Receive diagnosis									
				ECM	METER /MA	I-KEY	EPS	BCM /BEC	VDC/TC5 ABS	IPDM /ER			
ENGINE	— No indication	—	UNKNOWN	—	—	—	UNKNOWN	UNKNOWN	UNKNOWN	—	—	CAN COMM CIRCUIT (U1002)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	— No indication	—	UNKNOWN	UNKNOWN	UNKNOWN	—	—	UNKNOWN	—	—	—	CAN COMM CIRCUIT (U1002)	—
EPS	— No indication	—	UNKNOWN	UNKNOWN	UNKNOWN	—	—	UNKNOWN	—	—	—	CAN COMM CIRCUIT (U1002)	—
BCM	— No indication	—	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	—	UNKNOWN	UNKNOWN	—	—	CAN COMM CIRCUIT (U1002)	—
ABS	— No indication	—	UNKNOWN	UNKNOWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1002)	—
IPDM/ER	— No indication	—	UNKNOWN	UNKNOWN	—	—	—	UNKNOWN	—	—	—	CAN COMM CIRCUIT (U1002)	—

Symptoms :

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

		SELF-DIAG RESULTS	
DTC RESULTS		TIME	
CAN COMM CIRCUIT (U1000)			

SELF-DIAG RESULTS			
DTC RESULTS		TIME	
CAN COMM CIRCUIT (U1000)			

ERASE		PRINT			
MODE	BACK	LIGHT	COPY		

CAN DIAG SUPPORT MNTR			
ENGINE			
	PRSNLT	PAST	
TRANSMIT DIAG	UNKNOWN	0	
VDC7CS/ABS	UNKNOWN	0	
METER/MMA	-	-	
BCM/SEC	UNKNOWN	0	
ICC	-	-	
HVAC	-	-	
TCM	-	-	
EPF	UNKNOWN	0	
IPMER	UNKNOWN	0	
IPMER	UNKNOWN	0	

CAN DIAG SUPPORT MNTR			
ENGINE			
	PRSNLT	PAST	
METER/MMA	-	-	
BCM/SEC	UNKNOWN	0	
ICC	-	-	
HVAC	-	-	
TCM	-	-	
EPF	UNKNOWN	0	
IPMER	UNKNOWN	0	
e4WD	-	-	
AWD4WD	-	-	

CAN DIAG SUPPORT MNTR			
ENGINE			
	PRSNLT	PAST	
TRANSMIT DIAG	UNKNOWN	0	
VDC7CS/ABS	UNKNOWN	0	
METER/MMA	-	-	
BCM/SEC	UNKNOWN	0	
ICC	-	-	
HVAC	-	-	
TCM	-	-	
EPF	UNKNOWN	0	
IPMER	UNKNOWN	0	
IPMER	UNKNOWN	0	

CAN DIAG SUPPORT MNTR			
ENGINE			
	PRSNLT	PAST	
TRANSMIT DIAG	UNKNOWN	0	
VDC7CS/ABS	UNKNOWN	0	
METER/MMA	-	-	
BCM/SEC	UNKNOWN	0	
ICC	-	-	
HVAC	-	-	
TCM	-	-	
EPF	UNKNOWN	0	
IPMER	UNKNOWN	0	
IPMER	UNKNOWN	0	

CAN DIAG SUPPORT MNTR			
ABS			
		PRSENT	
INITIAL DIAG		OK	
ECM		UNKWN	
PRINT			
MODE	BACK	LIGHT	COPY

[illegible]

HOW TO USE CHECK SHEET TABLE

Unit that performs
CAN communication
diagnosis

Use when the initial conditions are reproduced											Use when the 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	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R				
ENGINE	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)		
INTELLIGENT KEY	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—		
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—		
BCM	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—		
ABS	No indication	NG	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—		
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—		

①

②

③

④

⑤

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Unit that performs CAN communication diagnosis

① ② ③ ④ ⑤

PKIC9389E

- 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.)
- NOTE:**
It is unnecessary to replace ABS actuator and electric unit (control unit) when "NG" on "INITIAL DIAG" of "ABS" is indicated at this stage. "NG" is indicated not only when malfunctioning ABS actuator and electric unit (control unit) but also other parts. See check sheet results for the system diagnosis.
- "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

	PRSENT	PAST
TRANSMIT DIAG	UNKWN	0
VDC/TCS/ABS	UNKWN	0
METER/M&A	-	-
BCM/SEC	UNKWN	0
ICC	-	-
HVAC	-	-
TCM	-	-
EPS	UNKWN	0
IPDM E/R	UNKWN	0

PRINT
Scroll Down

MODE
BACK
LIGHT
COPY

CAN DIAG SUPPORT MNTR

ENGINE

	PRSENT	PAST
METER/M&A	-	-
BCM/SEC	UNKWN	0
ICC	-	-
HVAC	-	-
TCM	-	-
EPS	UNKWN	0
IPDM E/R	UNKWN	0
e4WD	-	-
AWD/4WD	-	-

PRINT
Scroll Up

MODE
BACK
LIGHT
COPY

Check sheet table

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

SELECT SYSTEM

ENGINE

AIR BAG

ABS

EPS

IPDM E/R

BCM

Page Down

BACK
LIGHT
COPY

SELECT SYSTEM

AIR BAG

ABS

EPS

IPDM E/R

BCM

INTELLIGENT KEY

Page Up

BACK
LIGHT
COPY

PKIC9390E

- 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:

Do not put a check mark on items in the column of "No indication" on the check sheet when displaying all items on "SELECT SYSTEM" screen.

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

NOTE:

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

TROUBLE DIAGNOSES WORK FLOW

[CAN]

CAN DIAG SUPPORT MNTR

EPS

TRANSMIT DIAG OK

ECM UNKWN

VDC/TCS/ABS OK

METER/M&A OK

PRINT

MODE BACK LIGHT COPY

CAN DIAG SUPPORT MNTR

INTELLIGENT KEY

INITIAL DIAG OK

TRANSMIT DIAG OK

ECM UNKWN

METER/M&A OK

BCM/SEC OK

PRINT

MODE BACK LIGHT COPY

CAN DIAG SUPPORT MNTR

BCM

TRANSMIT DIAG OK

ECM UNKWN

IPDM E/R OK

METER/M&A OK

I-KEY OK

VDC/TCS/ABS OK

PRINT

MODE BACK LIGHT COPY

CAN DIAG SUPPORT MNTR

ABS

INITIAL DIAG OK

ECM UNKWN

PRINT

MODE BACK LIGHT COPY

CAN DIAG SUPPORT MNTR

IPDM E/R

TRANSMIT DIAG OK

ECM UNKWN

BCM/SEC OK

PRINT

MODE BACK LIGHT COPY

Check sheet table

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

PKIC9391E

3. Confirm the unit name that “UNKWN” is displayed on the copy of “CAN DIAG SUPPORT MNTR” screen of “INTELLIGENT KEY”, “EPS”, “BCM”, “ABS” and “IPDM E/R” as well as “ENGINE”. And then, put a check mark to the check sheet table.

NOTE:

- For “INTELLIGENT KEY”, “UNKWN” is displayed on “ECM”. Put a check mark to it.
- For “EPS”, “UNKWN” is displayed on “ECM”. Put a check mark to it.
- For “BCM”, “UNKWN” is displayed on “ECM”. Put a check mark to it.
- For “ABS”, “UNKWN” is displayed on “ECM”. Put a check mark to it.
- For “IPDM E/R”, “UNKWN” is displayed on “ECM”. Put a check mark to it.

TROUBLE DIAGNOSES WORK FLOW

[CAN]

The arranged results of CAN diagnosis support monitor

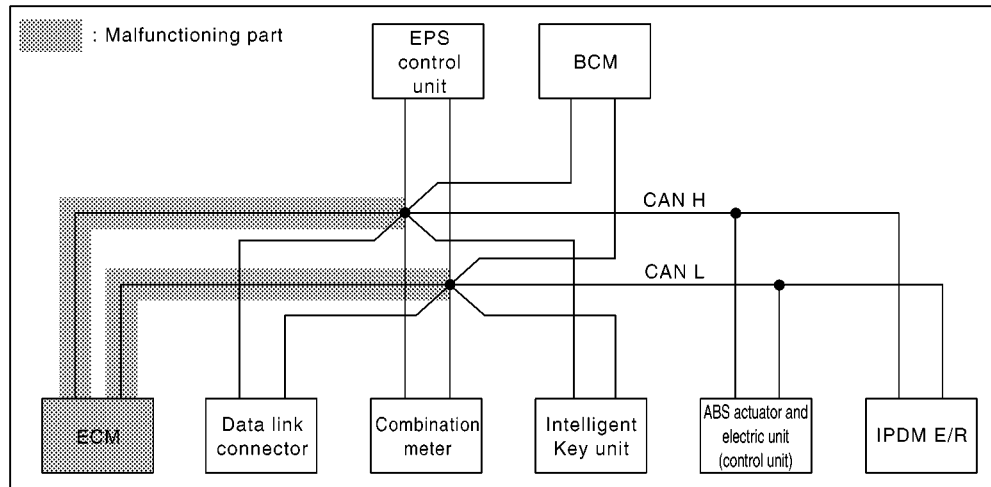
Check sheet table												
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN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

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

Case 2
Check ECM circuit.

Check sheet results (example)

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



PKIC9392E

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.

- Perform system diagnosis for possible causes identified.
- 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	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
INTELLIGENT KEY	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
ABS	No indication	NG	—	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 1t

[U1001]

SYSTEM INTELLIGENT KEY

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT 1

[U1000]

SYSTEM EPS

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT 1

[U1000]

SYSTEM BCM

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT 1

[U1000]

SYSTEM ABS

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT 1

[U1000]

SYSTEM IPDM E/R

SELF-DIAG RESULTS

DTC RESULTS TIME

CAN COMM CIRCUIT PAST

[U1000]

PKIC9393E

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

NOTE:

- For "ENGINE", "CAN COMM CIRCUIT [U1001]" is displayed. Put a check mark to it.
- For "INTELLIGENT KEY", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "EPS", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "BCM", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "ABS", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "IPDM E/R", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.

TROUBLE DIAGNOSES WORK FLOW

[CAN]

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R		
				ECM	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS			
ENGINE	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	No indication	NG	—	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 2
Check ECM circuit.

Check ECM circuit.

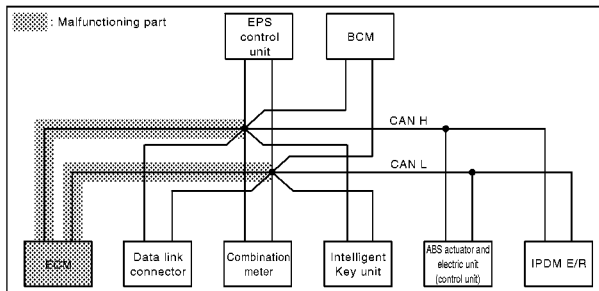
SELECT SYSTEM (SYSTEM)	CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis									
			ECM	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	✓	—	—	—	✓	✓	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication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

Case 10
Check CAN communication circuit.

Case 10

Check CAN communication circuit.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
	Initial diagnosis	Transmit diagnosis	Receive diagnosis									
			ECM	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	✓	—	—	—	✓	✓	✓	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (E1001)
INTELLIGENT KEY	✓	NG	UNKNOWN	UNKNOWN	UNKNOWN	—	—	UNKNOWN	—	—	CAN COMM CIRCUIT (U1000)	—
EPS	✓	—	UNKNOWN	UNKNOWN	UNKNOWN	—	—	UNKNOWN	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	✓	—	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	—	UNKNOWN	UNKNOWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	✓	NG	—	UNKNOWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	✓	—	UNKNOWN	UNKNOWN	—	—	—	UNKNOWN	—	—	CAN COMM CIRCUIT (U1000)	—



PKIC9394E

NOTE:

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

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

CAN Diagnostic Support Monitor

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR ECM

CR14DE/HR16DE model

(Example)	CAN DIAG SUPPORT MNTR				CAN DIAG SUPPORT MNTR			
	ENGINE				ENGINE			
		PRSNT	PAST			PRSNT	PAST	
	TRANSMIT DIAG	OK	OK		METER/M&A	-	-	
	VDC/TCS/ABS	OK	OK		BCM/SEC	OK	OK	
	METER/M&A	-	-		ICC	-	-	
	BCM/SEC	OK	OK		HVAC	-	-	
	ICC	-	-		TCM	OK	OK	
	HVAC	-	-		EPS	OK	OK	
	TCM	OK	OK		IPDM E/R	OK	OK	
	EPS	OK	OK		e4WD	-	-	
	IPDM E/R	OK	OK		AWD/4WD	-	-	
	PRINT		Scroll Down		PRINT	Scroll Up		
	MODE	BACK	LIGHT	COPY	MODE	BACK	LIGHT	COPY

PKIC9371E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
ENGINE	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1 - 39/-
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from combination meter. (ESP model)	OK/UNKWN/-	
		METER/M&A is not diagnosed. (ABS model)	-	
	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. (A/T model)	OK/UNKWN/-	
		TCM is not diagnosed. (M/T model)	-	
	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	AWD/4WD is not diagnosed.	-	

LAN

Display Results (Present)

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

Display Results (Past)

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

[CAN]

(Example)

CAN DIAG SUPPORT MNTR			
ENGINE			
	PRSNLT	PAST	
TRANSMIT DIAG	OK	OK	
VDC/TCS/ABS	OK	OK	
METER/M&A	OK	OK	
BCM/SEC	OK	OK	
TCM	-	-	
IPDM E/R	OK	OK	
PRINT			
MODE	BACK	LIGHT	COPY

PKIC9372Z

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
ENGINE	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/–	OK/0/1 – 39/–
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/–	
	METER/M&A	Make sure of normal reception from combination meter. (ESP model)	OK/UNKWN/–	
		METER/M&A is not diagnosed. (ABS model)	–	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/–	
	TCM	TCM is not diagnosed.	–	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/–	

- 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.

- OK: Normal
- 0: There is malfunction now.
- 1 – 39: Displays when it finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. Keep this condition until resetting it.
- -: Undiagnosed

TROUBLE DIAGNOSES WORK FLOW

[CAN]

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR INTELLIGENT KEY UNIT

(Example) CAN DIAG SUPPORT MNTR

INTELLIGENT KEY			
			PRSNT
INITIAL DIAG	OK		
TRANSMIT DIAG	OK		
ECM	OK		
METER/M&A	OK		
BCM/SEC	OK		
PRINT			
MODE	BACK	LIGHT	COPY

PKIC9373E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
INTELLIGENT KEY	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
	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
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

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

(Example) CAN DIAG SUPPORT MNTR

EPS			
			PRSNT
TRANSMIT DIAG	OK		
ECM	OK		
VDC/TCS/ABS	OK		
METER/M&A	OK		
PRINT			
MODE	BACK	LIGHT	COPY

PKIC9374E

“SELECT SYSTEM” screen	“CAN DIAG SUP-PORT MNTR” screen	Description	Present
EPS	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN

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 BCM

(Example) CAN DIAG SUPPORT MNTR

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

PKIC9375E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
BCM	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
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN

Display Results (Present)

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

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

ABS model

(Example) CAN DIAG SUPPORT MNTR

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

PKIC9376E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
ABS	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	ECM	Make sure of normal reception from ECM.	OK/UNKWN

Display Results (Present)

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

[CAN]

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

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
ABS	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/–	
	TCM	TCM is not diagnosed.	–	
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN/–	

- 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.

- OK: Normal
- 0: There is malfunction now.
- 1 – 39: Displays when it finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. Keep this condition until resetting it.
- –: Undiagnosed

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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		UNKWN	
METER/M&A		OK	
ICC/e4WD		UNKWN	
PRINT			
MODE	BACK	LIGHT	COPY

PKIC9378E

“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	VDC/TCS/ABS is not diagnosed.	UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN
	ICC/e4WD	ICC/e4WD is not diagnosed.	UNKWN

Display Results (Present)

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

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

(Example)

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

PKIC9379E

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

Display Results (Present)

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

CAN COMMUNICATION

System Description

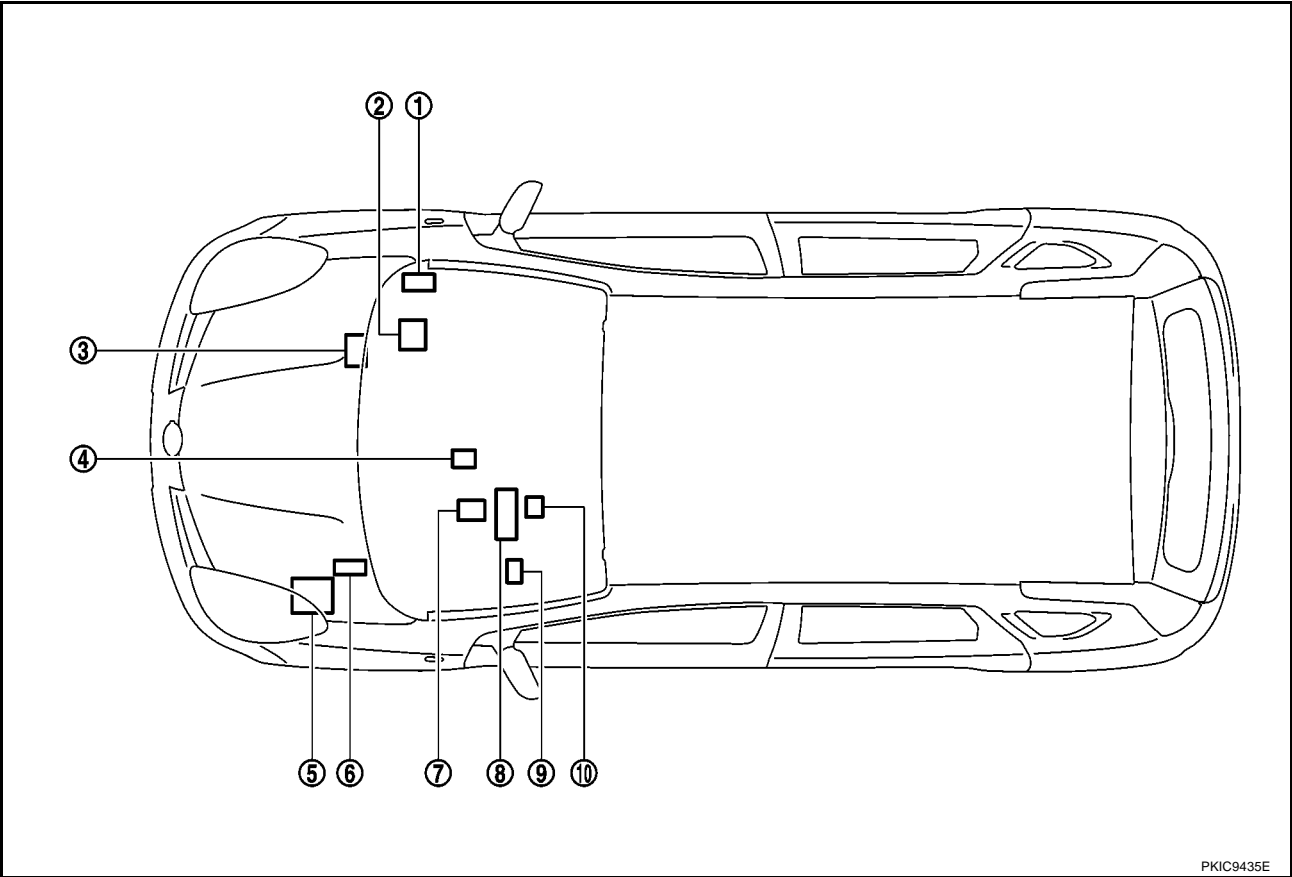
BKS0014C

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

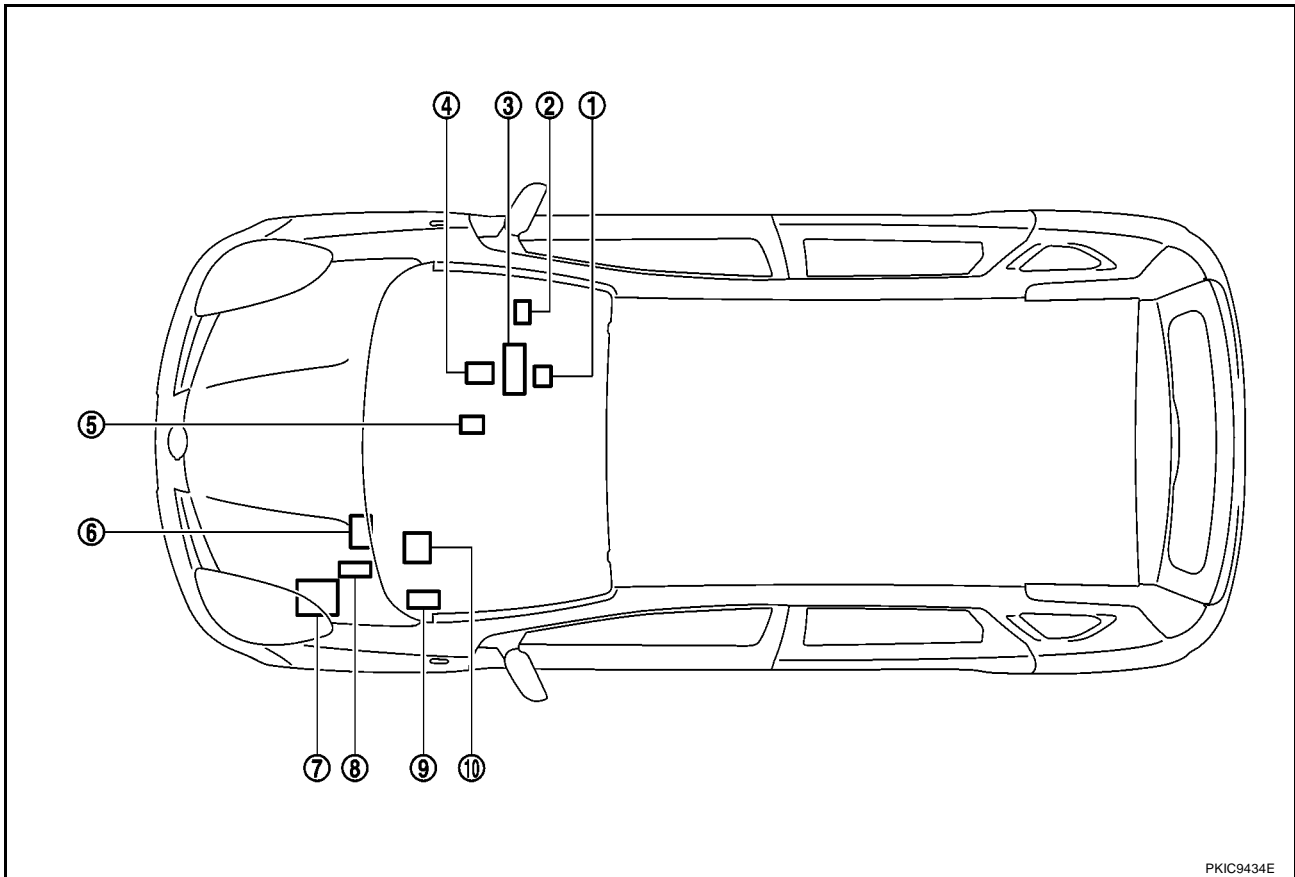
BKS0011R

LHD MODEL



- | | | |
|-------------------------------|--------------------------|---|
| 1. TCM E106 | 2. BCM M57 | 3. ABS actuator and electric unit (control unit) E32 (ABS model)
ABS actuator and electric unit (control unit) E33 (ESP model) |
| 4. Intelligent Key unit M60 | 5. IPDM E/R E12 | 6. ECM E40 |
| 7. EPS control unit M25 | 8. Combination meter M27 | 9. Data link connector M14 |
| 10. Steering angle sensor M40 | | |

RHD MODEL



1. Steering angle sensor M40

4. EPS control unit M25

7. IPDM E/R E12

10. BCM M57

2. Data link connector M14

5. Intelligent Key unit M60

8. ECM E40

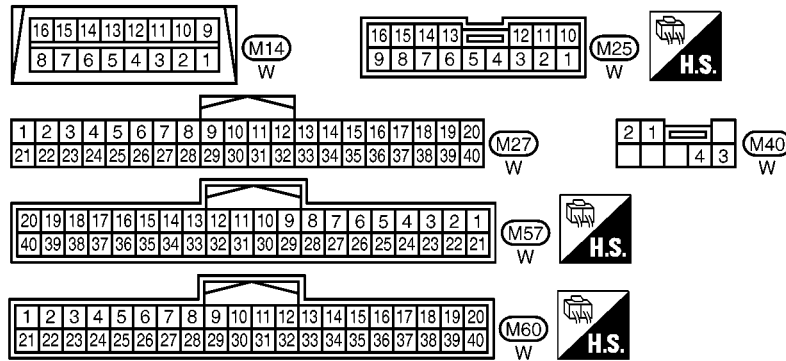
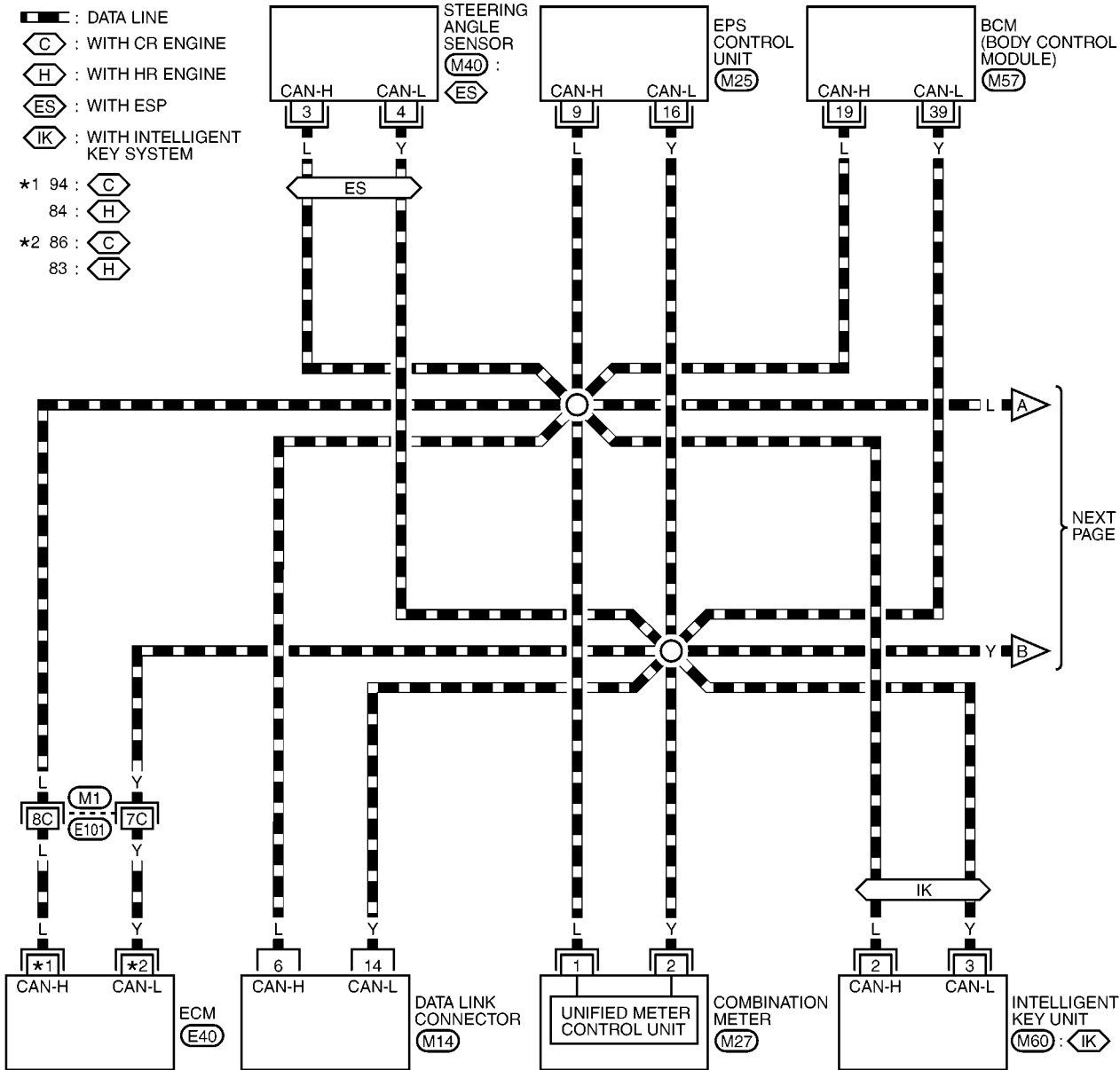
3. Combination meter M27

6. ABS actuator and electric unit (control unit) E32 (ABS model)
ABS actuator and electric unit (control unit) E33 (ESP model)

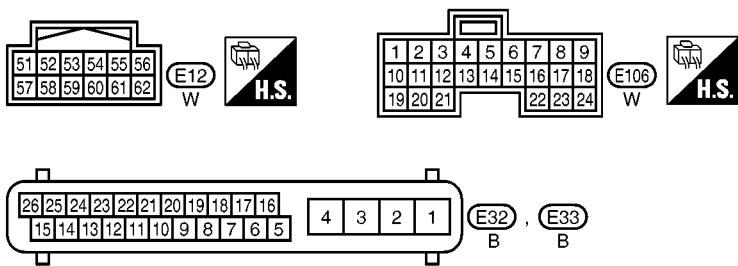
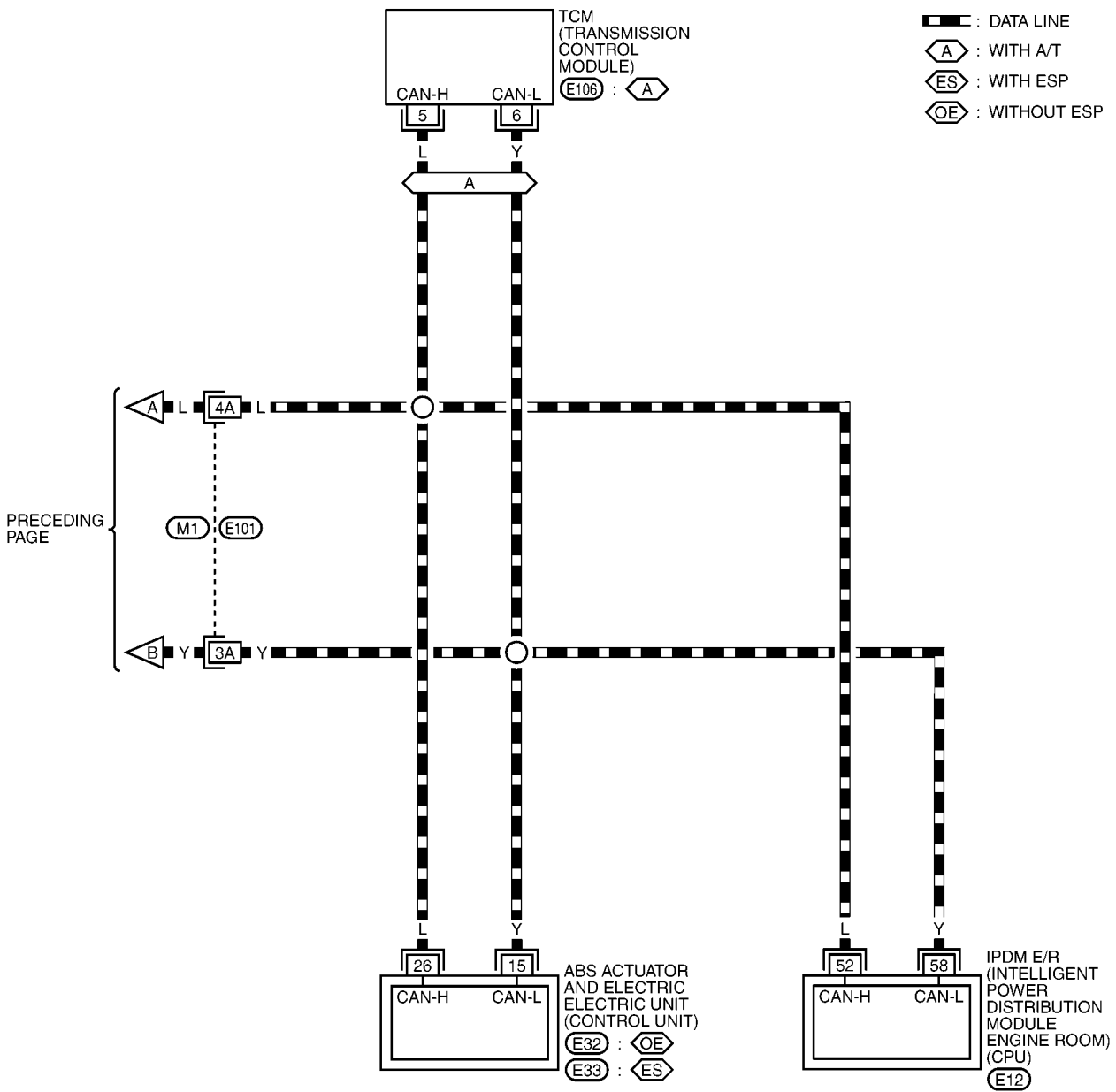
9. TCM E106

Wiring Diagram — CAN —
CR14DE/HR16DE MODEL

LAN-CAN-01



LAN-CAN-02



REFER TO THE FOLLOWING.
M1 - SUPER MULTIPLE JUNCTION (SMJ)

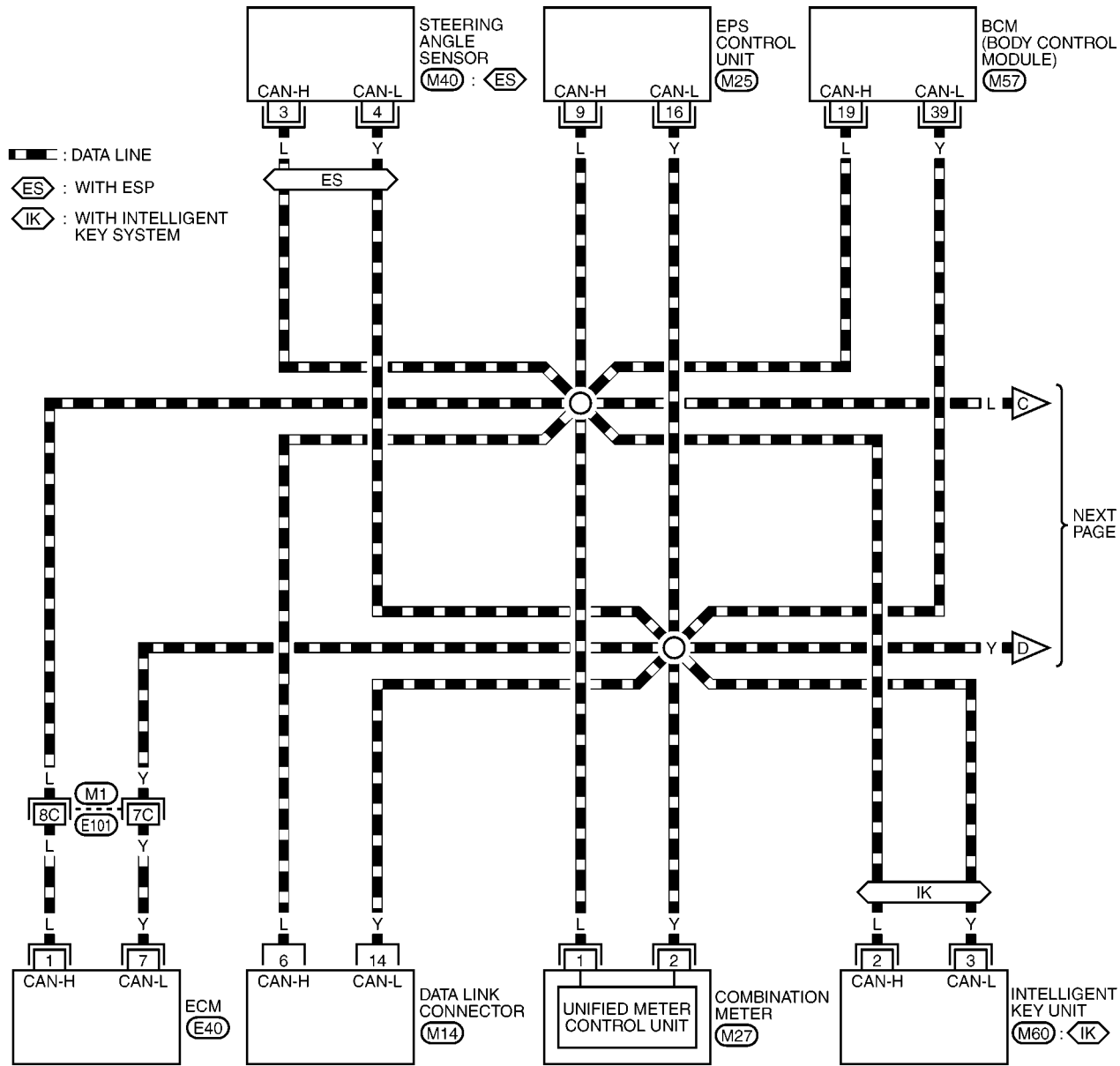
CAN COMMUNICATION

[CAN]

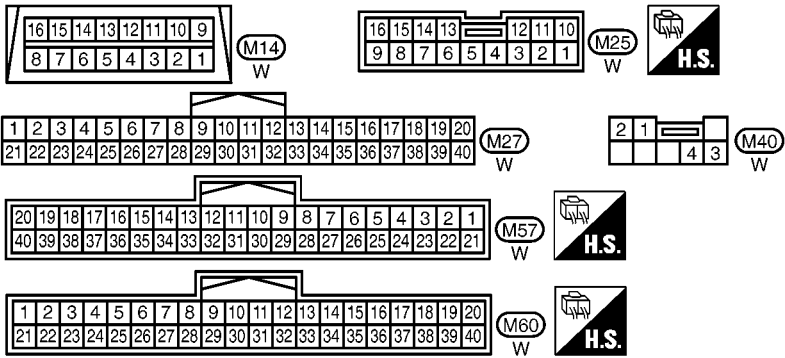
K9K MODEL

LAN-CAN-03

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REFER TO THE FOLLOWING.

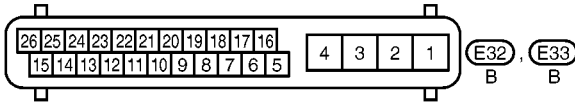
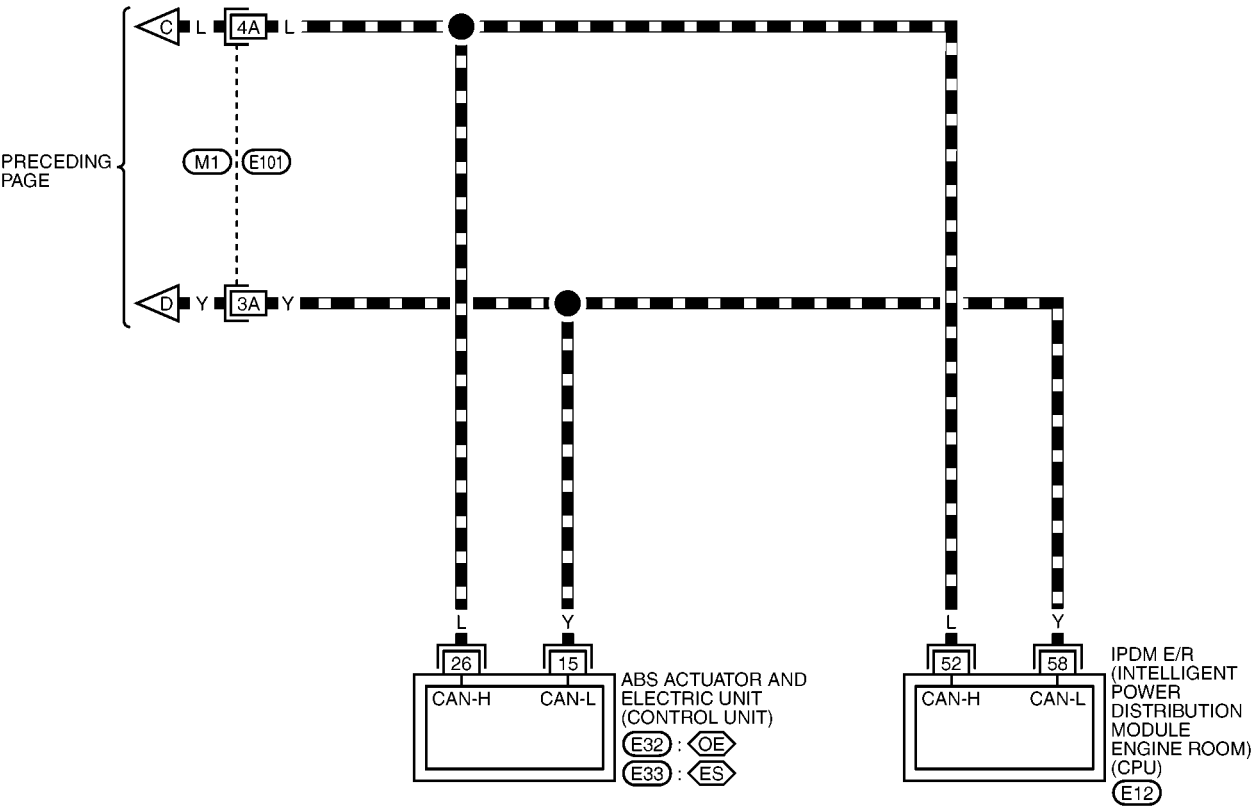
M1 - SUPER MULTIPLE JUNCTION (SMJ)

E40 - ELECTRICAL UNITS

MKWA4295E

LAN-CAN-04

- DATA LINE
- ES : WITH ESP
- OE : WITHOUT ESP



REFER TO THE FOLLOWING.
(M1) - SUPER MULTIPLE JUNCTION (SMJ)

BK.S001IT

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×: Applicable

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

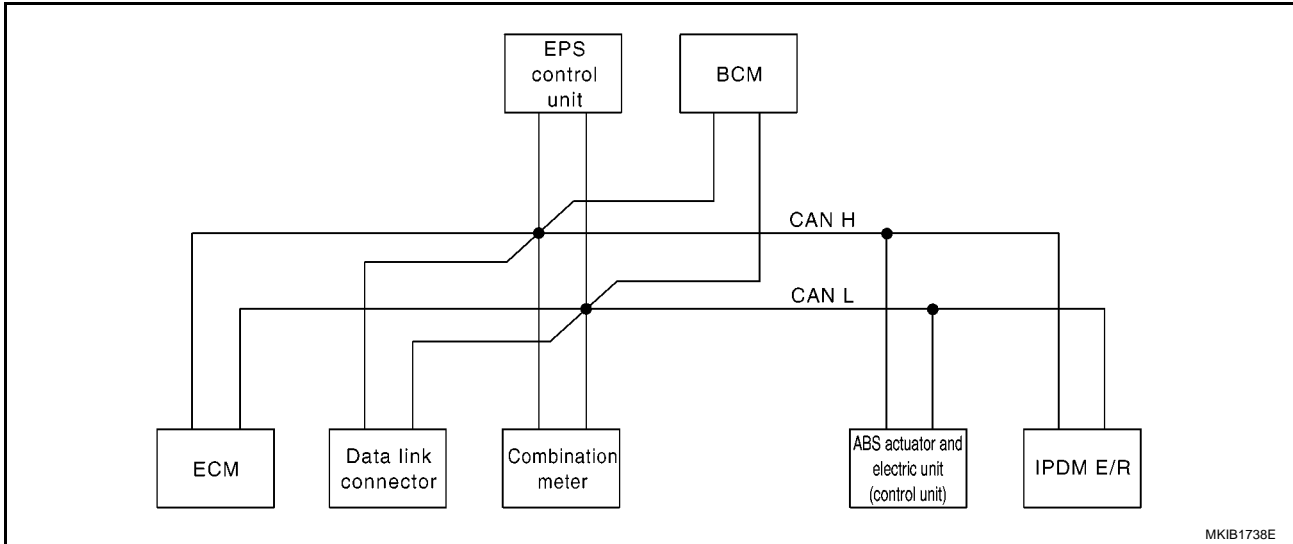
-
- Diagram illustrating the location of the ESP OFF button on the dashboard. The inset shows the button labeled "ESP OFF".

-
- A line drawing of a vehicle's ignition switch area. A finger is shown pressing the top of the ignition key. Below the key is a circular ignition switch with a keyhole. To the right of the main drawing is an inset showing a detailed view of the ignition switch. The inset has a circular dial with positions: LOCK, 1, 2, 3, ACC, ON, START, and PULL. There are two buttons labeled 'PUSH' and 'PULL' on the dial.

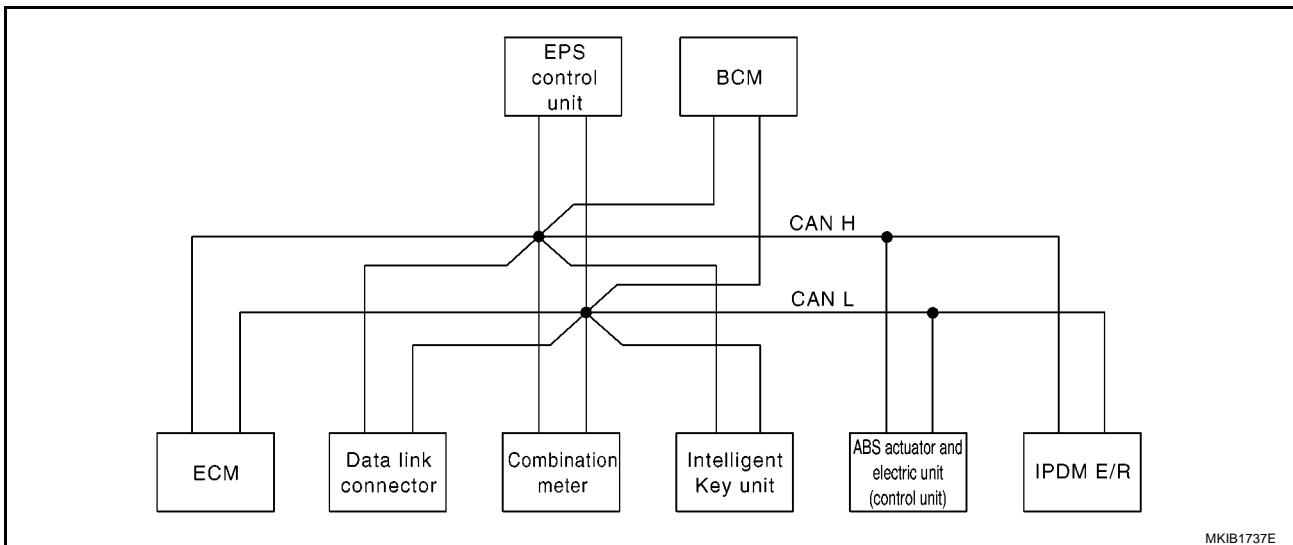
TYPE 1/TYPE 2

System diagram

• Type 1



• Type 2



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	Combina- tion meter	Intelligent Key unit*	EPS con- trol unit	BCM	ABS actu- ator and electric unit (con- trol unit)	IPDM E/R
A/C compressor request signal	T						R
Cooling fan speed request signal	T						R
Engine coolant temperature signal	T	R			R		
Engine speed signal	T	R					
Engine status signal	T			R			
Fuel consumption monitor signal	T	R					
MI signal	T	R					
Vehicle speed signal	R	R		R		T	
	R	T	R	R	R		

CAN COMMUNICATION

[CAN]

Signals	ECM	Combina- tion meter	Intelligent Key unit*	EPS con- trol unit	BCM	ABS actu- ator and electric unit (con- trol unit)	IPDM E/R
Buzzer output signal		R			T		
		R	T				
Door lock/unlock request signal			T		R		
KEY indicator signal		R	T				
LOCK indicator signal		R	T				
EPS operation signal	R			T			
EPS warning indicator signal		R		T			
A/C switch signal	R				T		
Blower fan motor switch signal	R				T		
Day time light request signal					T		R
Door lock/unlock status signal			R		T		
Door switch signal		R	R		T		R
Front fog lamp request signal		R			T		R
Front wiper request signal					T		R
Headlamp washer request signal					T		R
High beam request signal		R			T		R
Low beam request signal					T		R
Position lights request signal		R			T		R
Rear fog lamp status signal		R			T		
Rear window defogger switch signal					T		R
Sleep/wake up signal		R	R		T		R
Turn indicator signal		R			T		
ABS warning lamp signal		R				T	
Brake warning lamp signal		R				T	
Front wiper stop position signal					R		T
High beam status signal	R						T
Low beam status signal	R						T
Oil pressure switch signal		R					T
Rear window defogger control signal	R						T

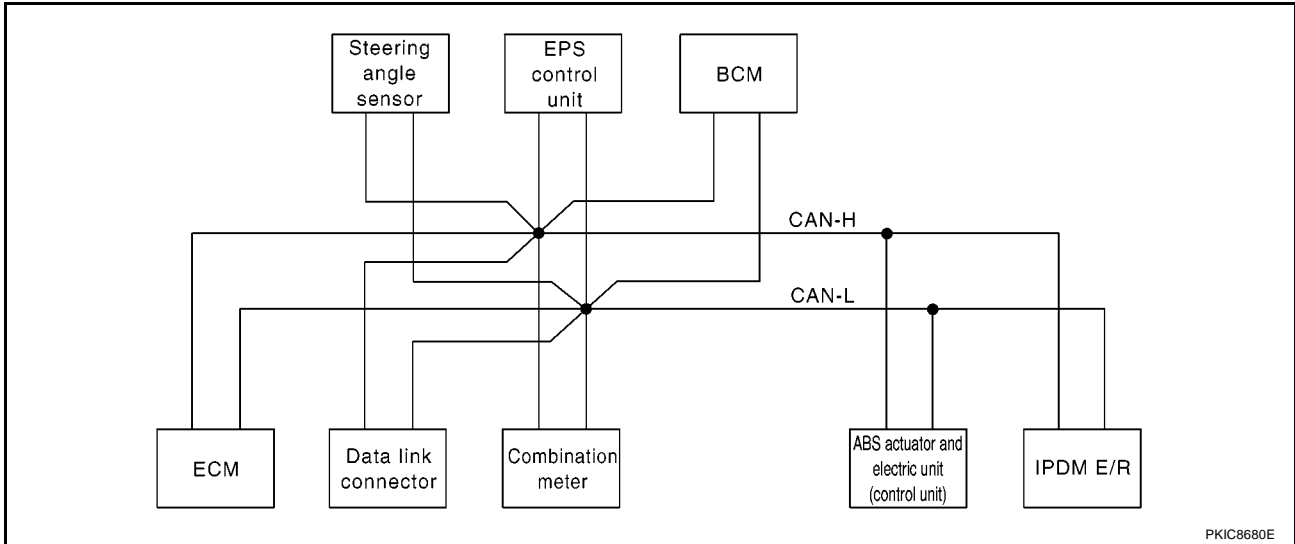
*: with Intelligent Key system model only

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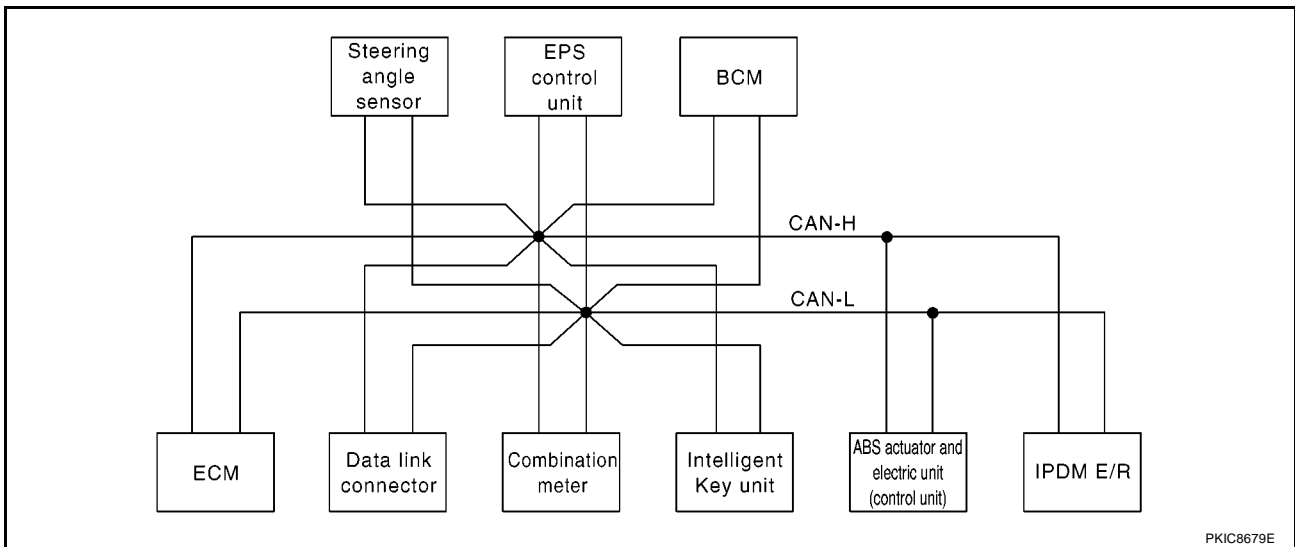
TYPE 3/TYPER 4

System diagram

- Type 3



- Type 4



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	Combination meter	Intelligent Key unit*	Steering angle sensor	EPS control unit	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	T							R
Accelerator pedal position signal	T						R	
Cooling fan speed request signal	T							R
Engine coolant temperature signal	T	R				R		
Engine speed signal	T	R					R	
Engine status signal	T				R			
Fuel consumption monitor signal	T	R						
MI signal	T	R						
Parking brake switch signal		T					R	

CAN COMMUNICATION

[CAN]

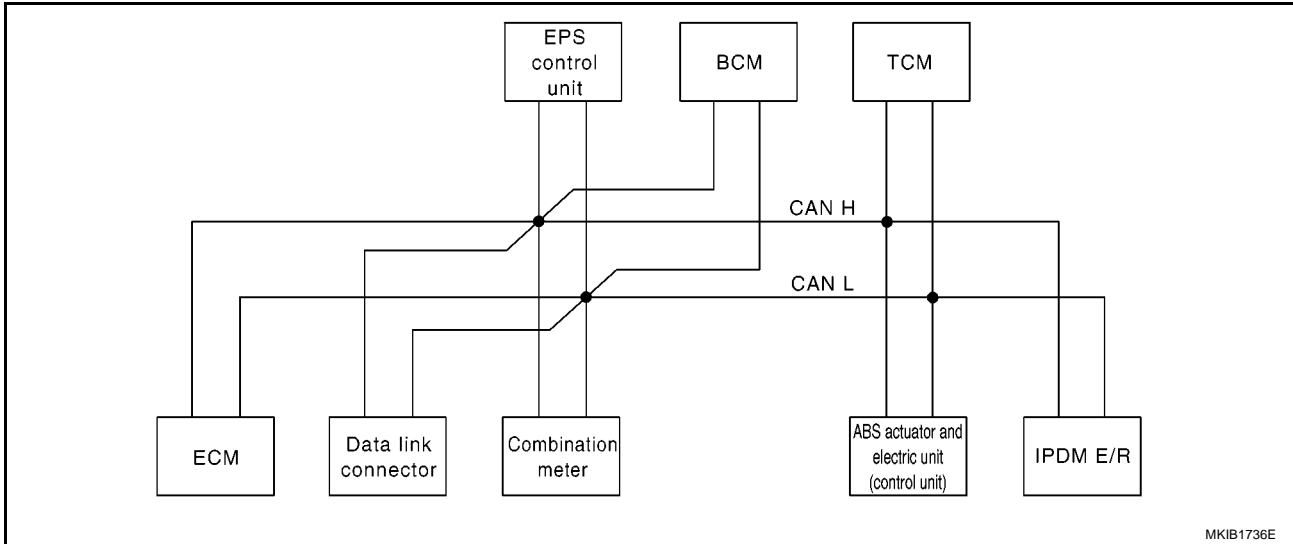
Signals	ECM	Combination meter	Intelligent Key unit*	Steering angle sensor	EPS control unit	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
Vehicle speed signal	R	R			R		T	
	R	T	R		R	R		
Buzzer output signal		R				T		
		R	T					
Door lock/unlock request signal			T			R		
KEY indicator signal		R	T					
LOCK indicator signal		R	T					
Steering angle signal				T			R	
EPS operation signal	R				T			
EPS warning indicator signal		R			T			
A/C switch signal	R					T		
Blower fan motor switch signal	R					T		
Day time light request signal						T		R
Door lock/unlock status signal			R			T		
Door switch signal		R	R			T		R
Front fog lamp request signal		R				T		R
Front wiper request signal						T		R
Headlamp washer request signal						T		R
High beam request signal		R				T		R
Low beam request signal						T		R
Position lights request signal		R				T		R
Rear fog lamp status signal		R				T		
Rear window defogger switch signal						T		R
Sleep/wake up signal		R	R			T		R
Turn indicator signal		R				T		
ABS warning lamp signal		R					T	
Brake warning lamp signal		R					T	
ESP OFF indicator signal		R					T	
ESP warning lamp signal		R					T	
SLIP indicator lamp signal		R					T	
Front wiper stop position signal						R		T
High beam status signal	R							T
Low beam status signal	R							T
Oil pressure switch signal		R						T
Rear window defogger control signal	R							T

*: with Intelligent Key system model only

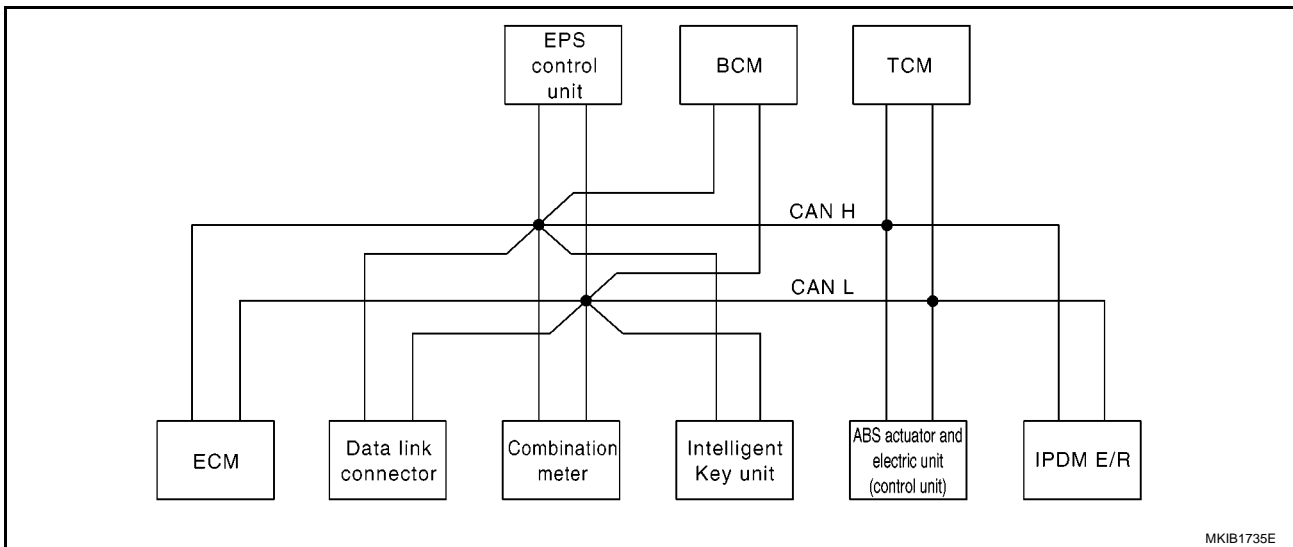
TYPE 5/TYPER 6

System diagram

- Type 5



- Type 6



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	Combination meter	Intelligent Key unit*	EPS control unit	BCM	ABS actuator and electric unit (control unit)	TCM	IPDM E/R
A/C compressor request signal	T							R
Accelerator pedal position signal	T						R	
Closed throttle position signal	T						R	
Cooling fan speed request signal	T							R
Engine and A/T integrated control signal	T						R	
	R						T	
Engine coolant temperature signal	T	R			R			
Engine speed signal	T	R						

CAN COMMUNICATION

[CAN]

Signals	ECM	Combination meter	Intelligent Key unit*	EPS control unit	BCM	ABS actuator and electric unit (control unit)	TCM	IPDM E/R
Engine status signal	T			R				
Fuel consumption monitor signal	T	R						
MI signal	T	R						
Wide open throttle position signal	T						R	
Overdrive control switch signal		T					R	
Stop lamp switch signal		T					R	
Vehicle speed signal	R	R		R		T		
	R	T	R	R	R			
Buzzer output signal		R			T			
		R	T					
Door lock/unlock request signal			T		R			
KEY indicator signal		R	T					
LOCK indicator signal		R	T					
EPS operation signal	R			T				
EPS warning lamp signal		R		T				
A/C switch signal	R				T			
Blower fan motor switch signal	R				T			
Day time light request signal					T			R
Door lock/unlock status signal			R		T			
Door switch signal		R	R		T			R
Front fog lamp request signal		R			T			R
Front wiper request signal					T			R
Headlamp washer request signal					T			R
High beam request signal		R			T			R
Low beam request signal					T			R
Position lights request signal		R			T			R
Rear fog lamp status signal		R			T			
Rear window defogger switch signal					T			R
Sleep/wake up signal		R	R		T			R
Turn indicator signal		R			T			
ABS warning lamp signal		R				T		
Brake warning lamp signal		R				T		
A/T position indicator signal		R					T	
A/T self-diagnosis signal	R						T	
OD OFF indicator signal		R					T	
Output shaft revolution signal	R						T	
Front wiper stop position signal					R			T
High beam status signal	R							T
Low beam status signal	R							T

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CAN COMMUNICATION

[CAN]

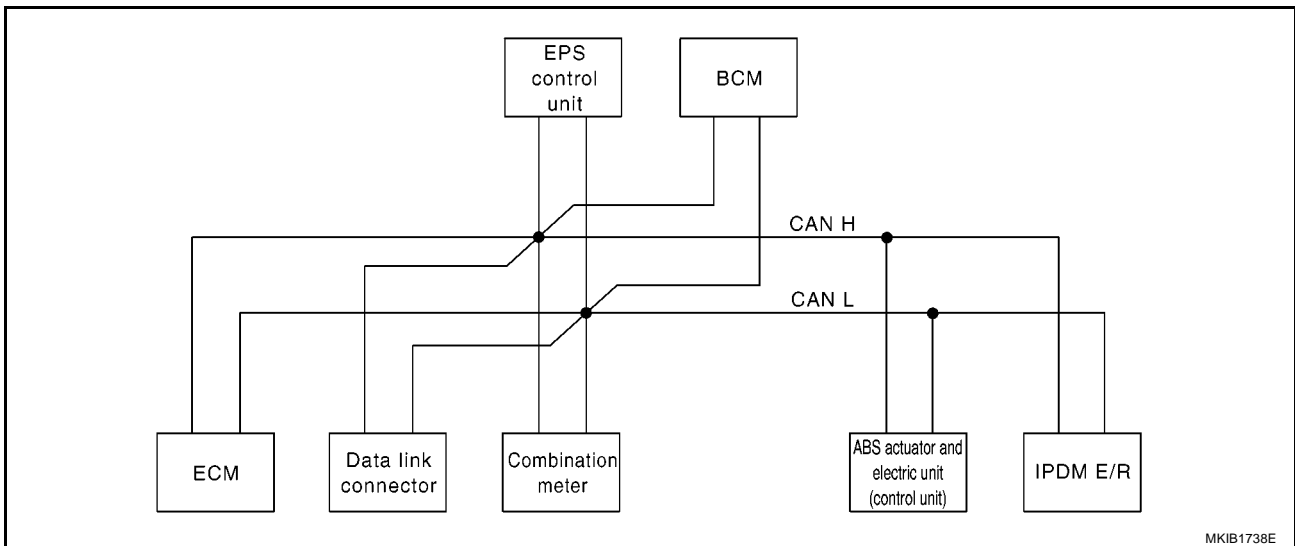
Signals	ECM	Combination meter	Intelligent Key unit*	EPS control unit	BCM	ABS actuator and electric unit (control unit)	TCM	IPDM E/R
Oil pressure switch signal		R						T
Rear window defogger control signal	R							T

*: with Intelligent Key system model only

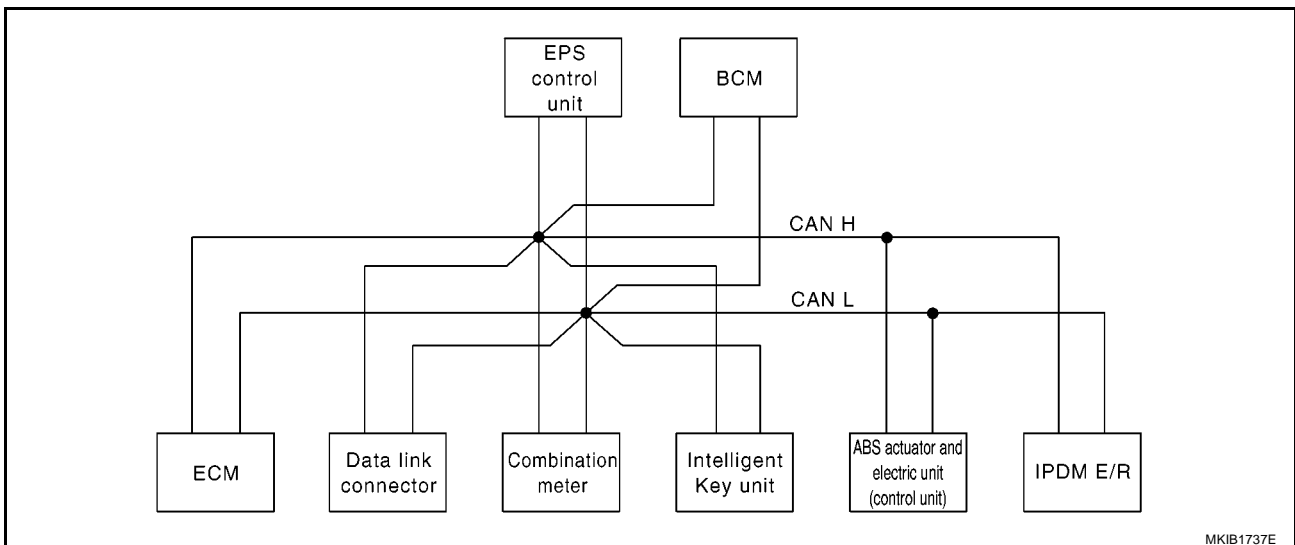
TYPE 7/TYPE 8

System diagram

- Type 7



- Type 8



CAN COMMUNICATION

[CAN]

Input/output signal chart

T: Transmit R: Receive

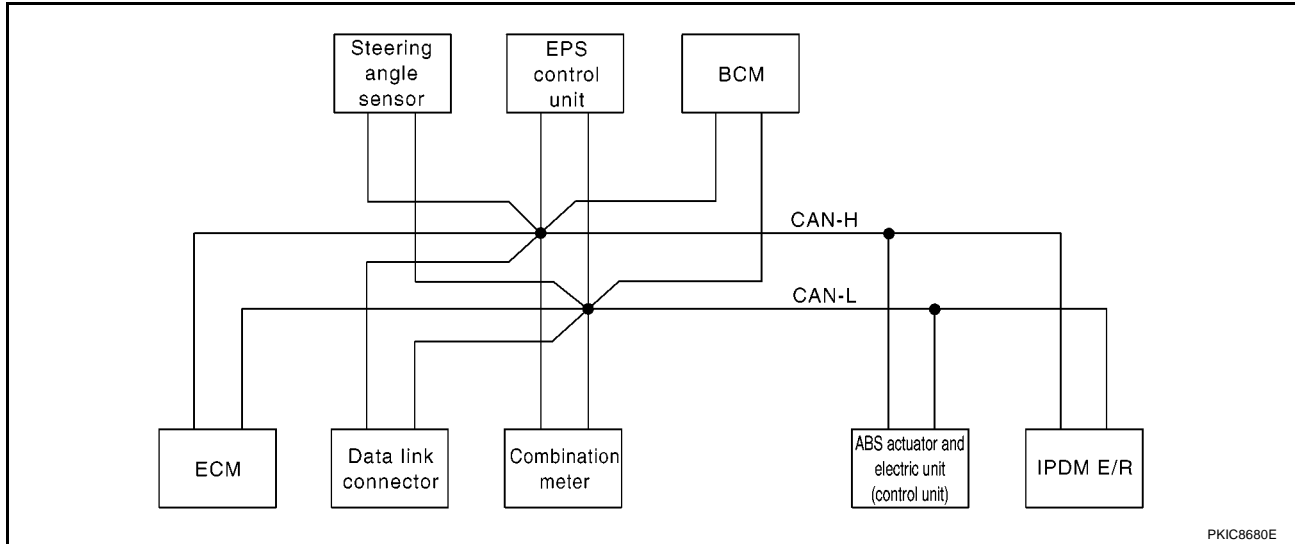
Signals	ECM	Combina- tion meter	Intelligent Key unit*	EPS con- trol unit	BCM	ABS actu- ator and electric unit (con- trol unit)	IPDM E/R
A/C compressor request signal	T						R
Cooling fan speed request signal	T						R
Engine coolant temperature signal	T	R			R		
Engine coolant temperature warning lamp signal	T	R					
Engine speed signal	T	R					
Engine status signal	T			R			
Glow indicator signal	T	R					
Fuel consumption monitor signal	T	R					
MI signal	T	R					
Vehicle speed signal	R	R		R	R	T	
	R	T	R	R			
Buzzer output signal		R			T		
		R	T				
Door lock/unlock request signal			T		R		
KEY indicator signal		R	T				
LOCK indicator signal		R	T				
EPS warning indicator signal		R		T			
Day time light request signal					T		R
Door lock/unlock status signal			R		T		
Door switch signal		R	R		T		R
Front fog lamp request signal		R			T		R
Front wiper request signal					T		R
Headlamp washer request signal					T		R
High beam request signal		R			T		R
Low beam request signal					T		R
Position lights request signal		R			T		R
Rear fog lamp status signal		R			T		
Rear window defogger switch signal					T		R
Sleep/wake up signal		R	R		T		R
Starter signal	R				T		
Turn indicator signal		R			T		
ABS warning lamp signal		R				T	
Brake warning lamp signal		R				T	
Front wiper stop position signal					R		T
Oil pressure switch signal		R					T

*: with Intelligent Key system model only

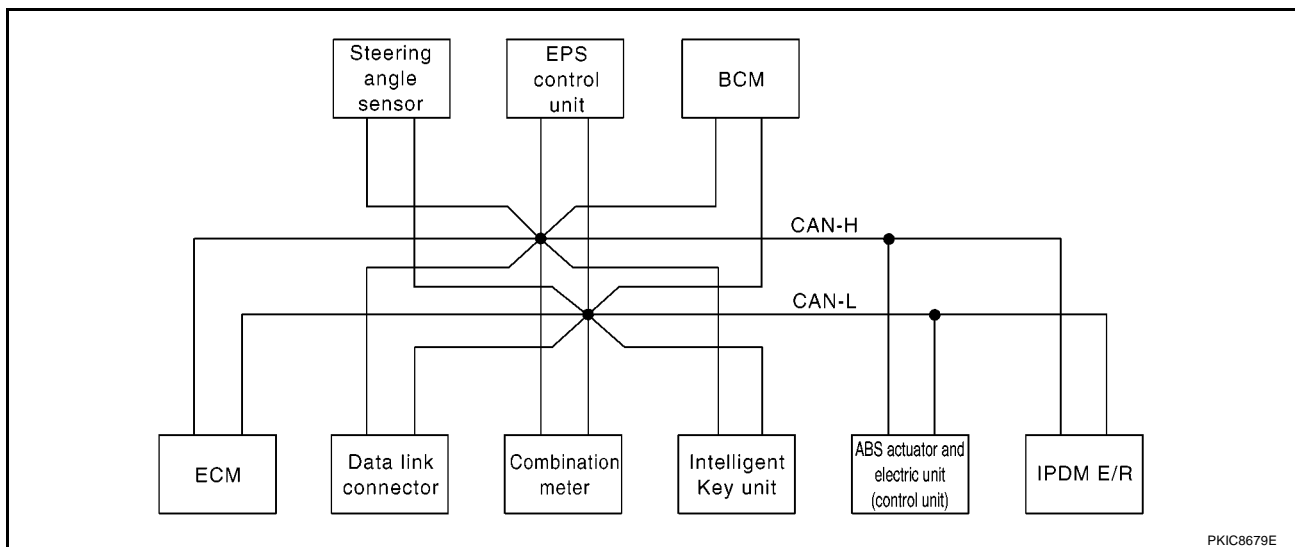
TYPE 9/TYPE 10

System diagram

- Type 9



- Type 10



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	Combination meter.	Intelligent Key unit*	Steering angle sensor	EPS control unit	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	T							R
Accelerator pedal position signal	T						R	
Cooling fan speed request signal	T							R
Engine coolant temperature signal	T	R				R		
Engine coolant temperature warning lamp signal	T	R						
Engine speed signal	T	R					R	
Engine status signal	T				R			
Fuel consumption monitor signal	T	R						

CAN COMMUNICATION

[CAN]

Signals	ECM	Combination meter.	Intelligent Key unit*	Steering angle sensor	EPS control unit	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
Glow indicator signal	T	R						
MI signal	T	R						
Vehicle speed signal	R	R			R	R	T	
	R	T	R		R			
Buzzer output signal		R				T		
		R	T					
Door lock/unlock request signal			T			R		
KEY indicator signal		R	T					
LOCK indicator signal		R	T					
Steering angle sensor signal				T			R	
EPS warning indicator signal		R			T			
Day time light request signal						T		R
Door lock/unlock status signal			R			T		
Door switch signal		R	R			T		R
Front fog lamp request signal		R				T		R
Front wiper request signal						T		R
Headlamp washer request signal						T		R
High beam request signal		R				T		R
Low beam request signal						T		R
Position lights request signal		R				T		R
Rear fog lamp status signal		R				T		
Rear window defogger switch signal						T		R
Sleep/wake up signal		R	R			T		R
Turn indicator signal		R				T		
Starter signal	R					T		
ABS warning lamp signal		R					T	
Brake warning lamp signal		R					T	
ESP OFF indicator signal		R					T	
ESP warning lamp signal		R					T	
SLIP indicator lamp signal		R					T	
Front wiper stop position signal						R		T
Oil pressure switch signal		R						T

*: with Intelligent Key system model only

CAN SYSTEM (TYPE 1)

PFP:23710

Component Parts and Harness Connector Location

BKS001IU

Refer to [LAN-21, "Component Parts and Harness Connector Location"](#) .

Wiring Diagram — CAN —

BKS001IW

Refer to [LAN-23, "Wiring Diagram — CAN —"](#) .

Check Sheet

BKS001LE

Refer to [LAN-39, "Check Sheet"](#) .

CAN SYSTEM (TYPE 1)

[CAN]

Check Sheet

BKS001IX

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

PKIC9195E

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

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IPDM E/R
SELF-DIAG RESULTS

Attach copy of
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CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

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

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

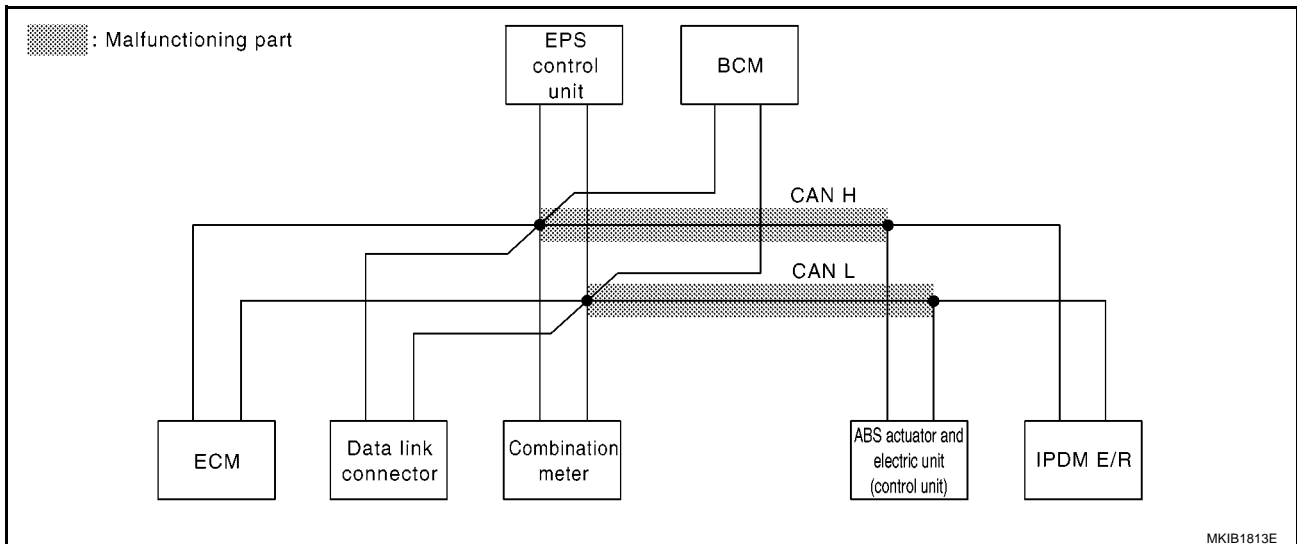
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

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

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PKIC9271E



MKIB1813E

CAN SYSTEM (TYPE 1)

[CAN]

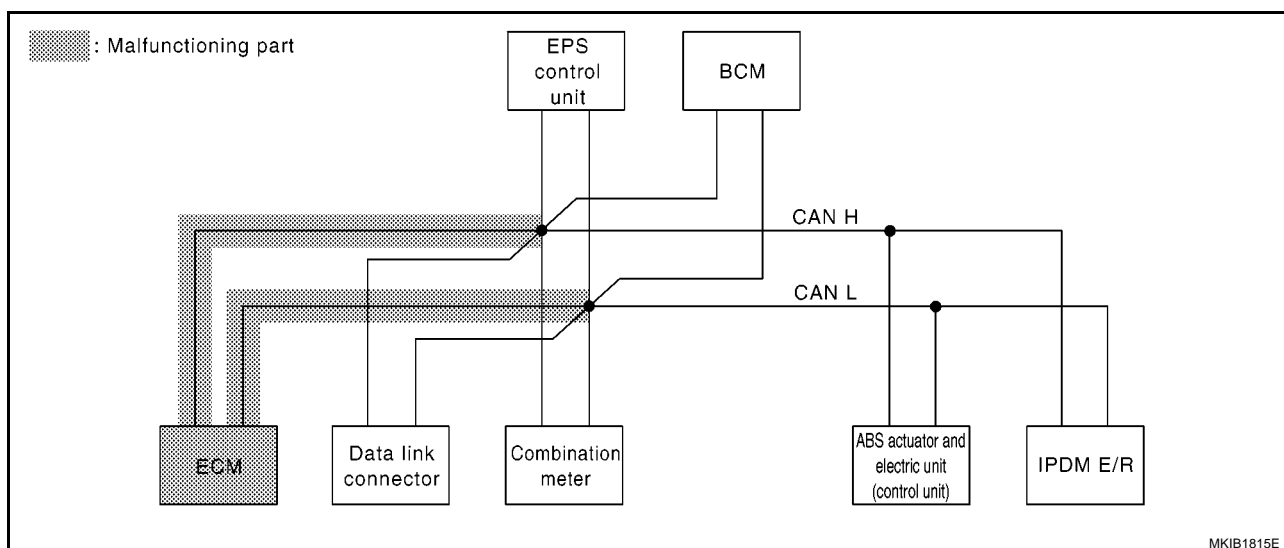
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#) .

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

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PKIC9272E



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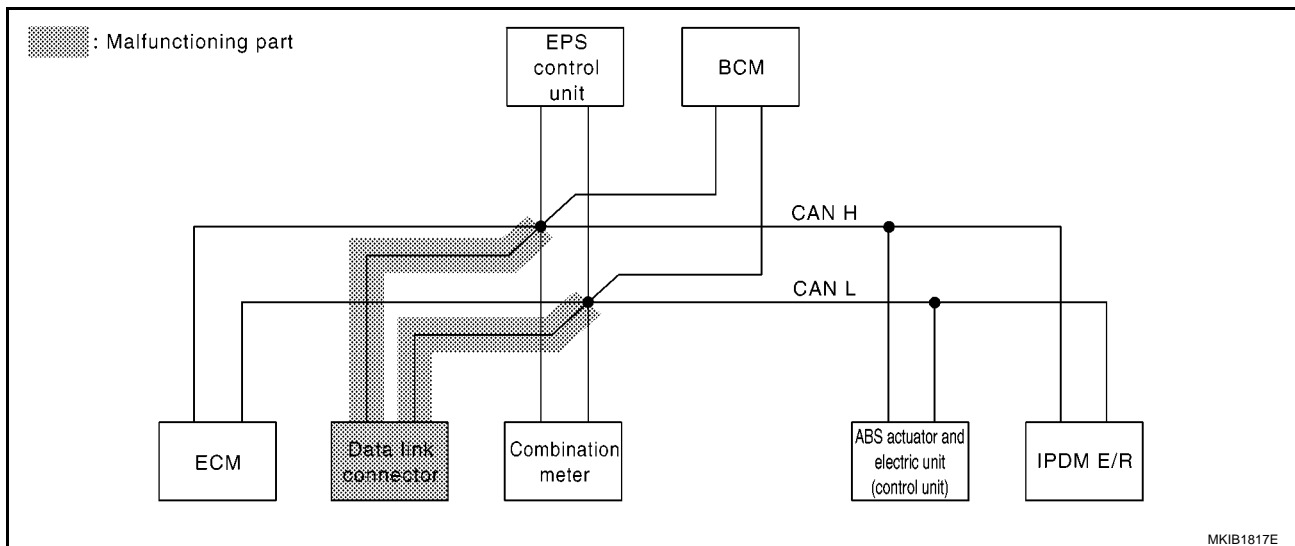
Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector Circuit Inspection"](#) .

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

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PKIC9273E



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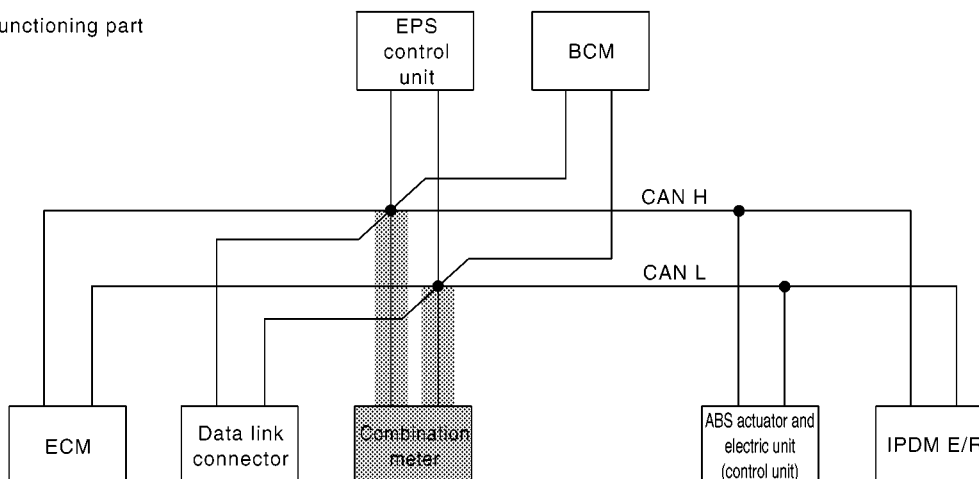
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

PKIC9274E

 : Malfunctioning part



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CAN SYSTEM (TYPE 1)

[CAN]

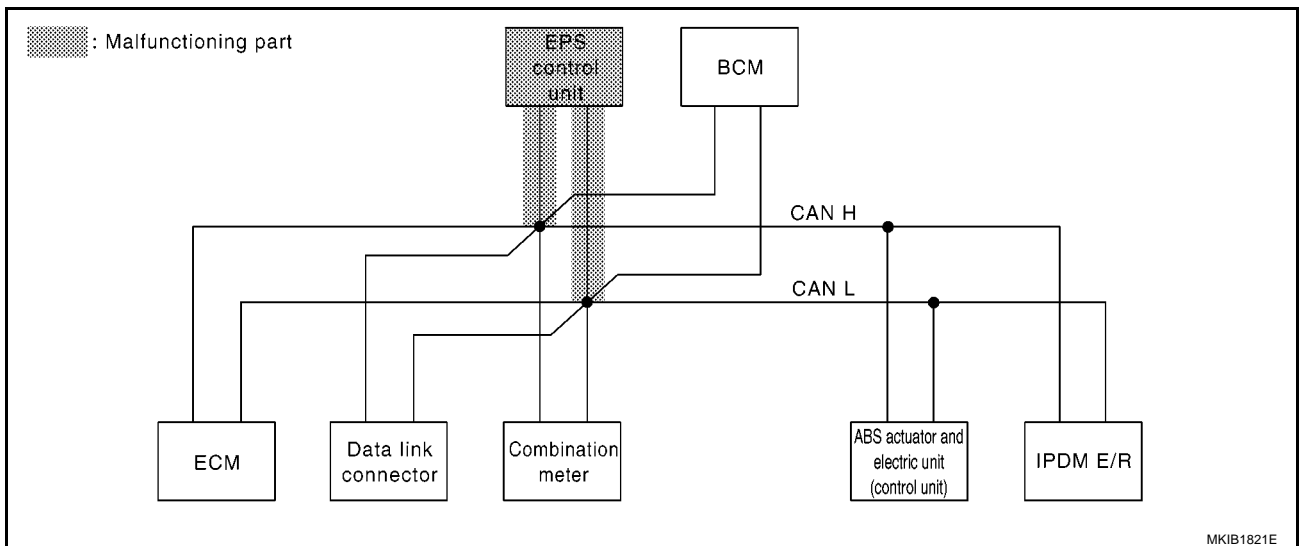
Case 5

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#) .

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

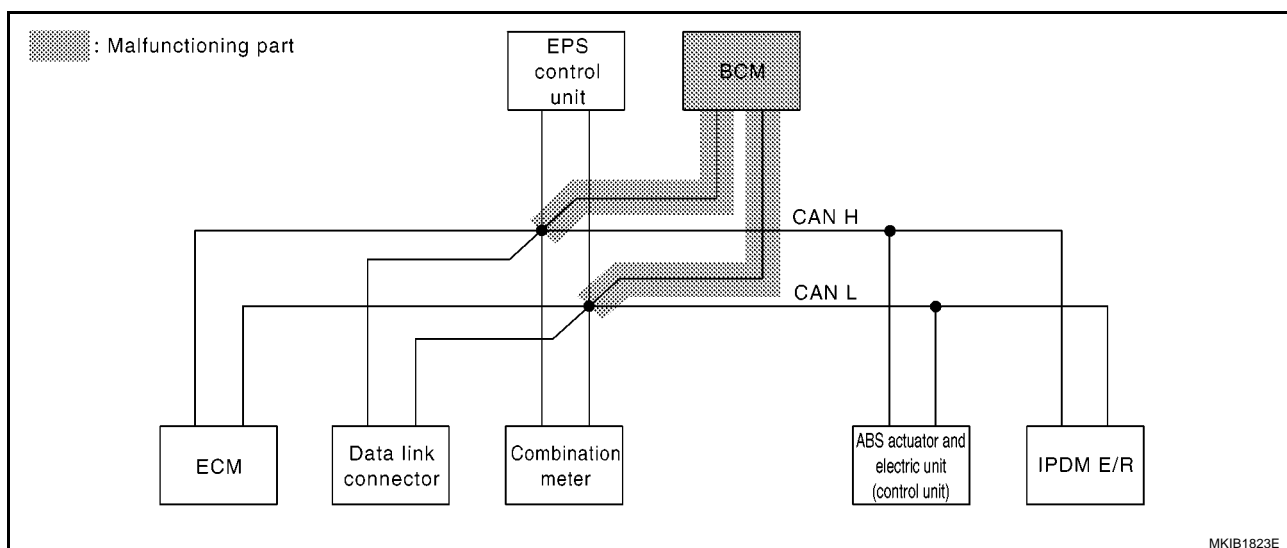
Case 6

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#) .

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

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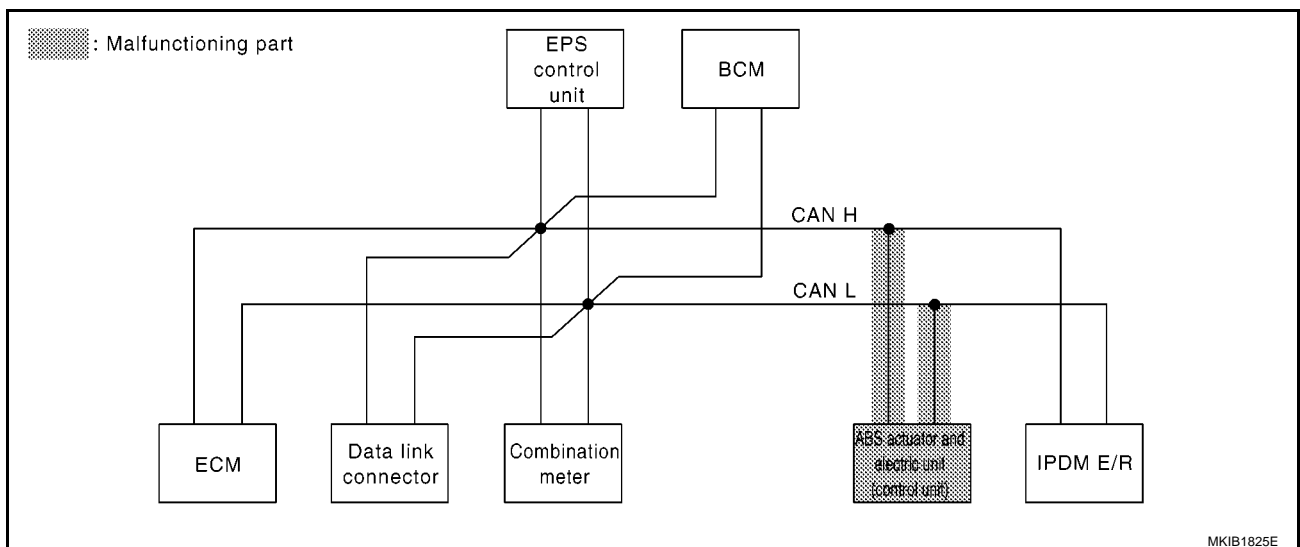
Case 7

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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

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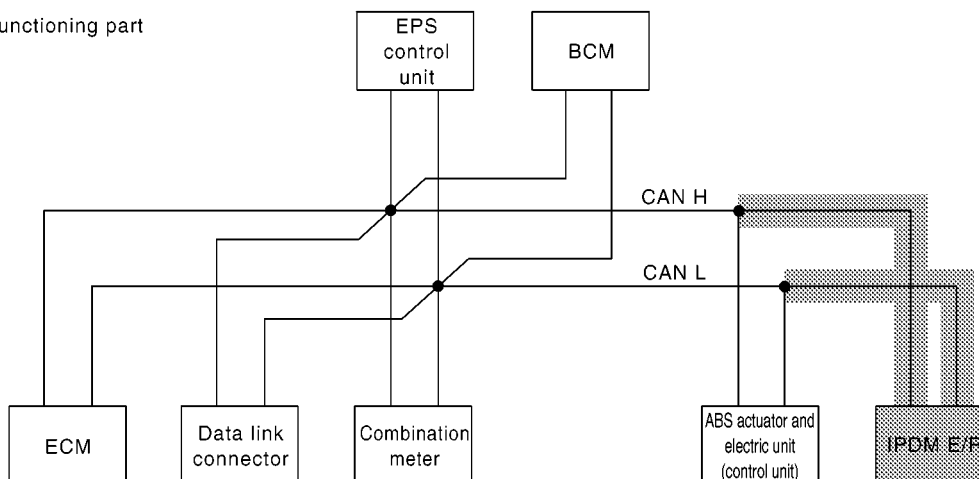
Case 8

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

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

PKIC9278E

 : Malfunctioning part



MKIB1827E

Case 9

Check CAN communication circuit. Refer to [LAN-188, "CAN Communication Circuit Inspection"](#) .

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

PKIC9279F

PKIC9279E

Case 10

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9280E

PKIC9280E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9281E

PKIC9281E

CAN SYSTEM (TYPE 2)

PFP:23710

Component Parts and Harness Connector Location

BKS001IY

Refer to LAN-21, "Component Parts and Harness Connector Location" .

Wiring Diagram — CAN —

BKS001JO

Refer to LAN-23, "Wiring Diagram — CAN —" .

Check Sheet

BKS001LF

Refer to LAN-52, "Check Sheet" .

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CAN SYSTEM (TYPE 2)

[CAN]

Check Sheet

BKS001J1

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	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	No indication	NG	—	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

PKIC9196E

CAN SYSTEM (TYPE 2)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

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PKIC9146E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

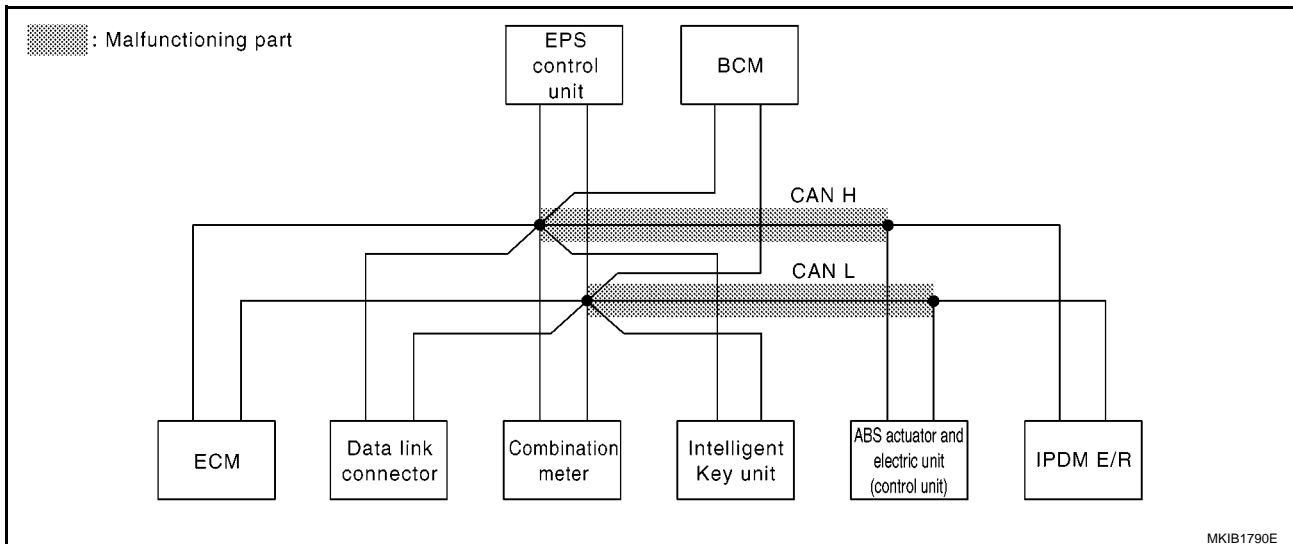
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

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

PKIC9284E

PKIC9284E



MKIB1790E

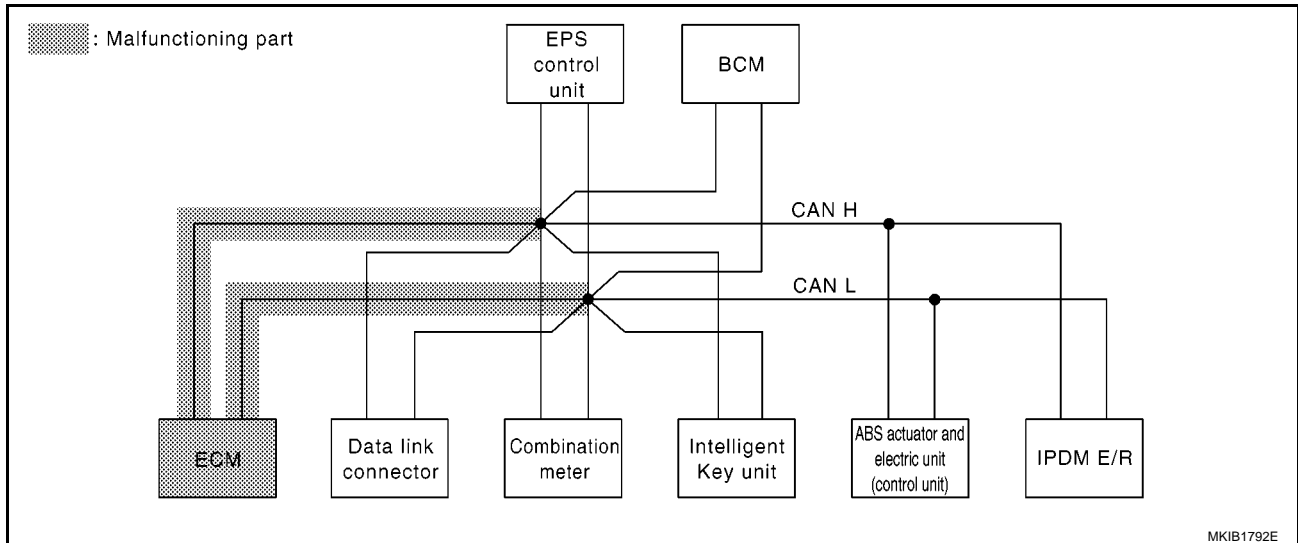
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#) .

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

PKIC9285E

PKIC9285E



MKIB1792E

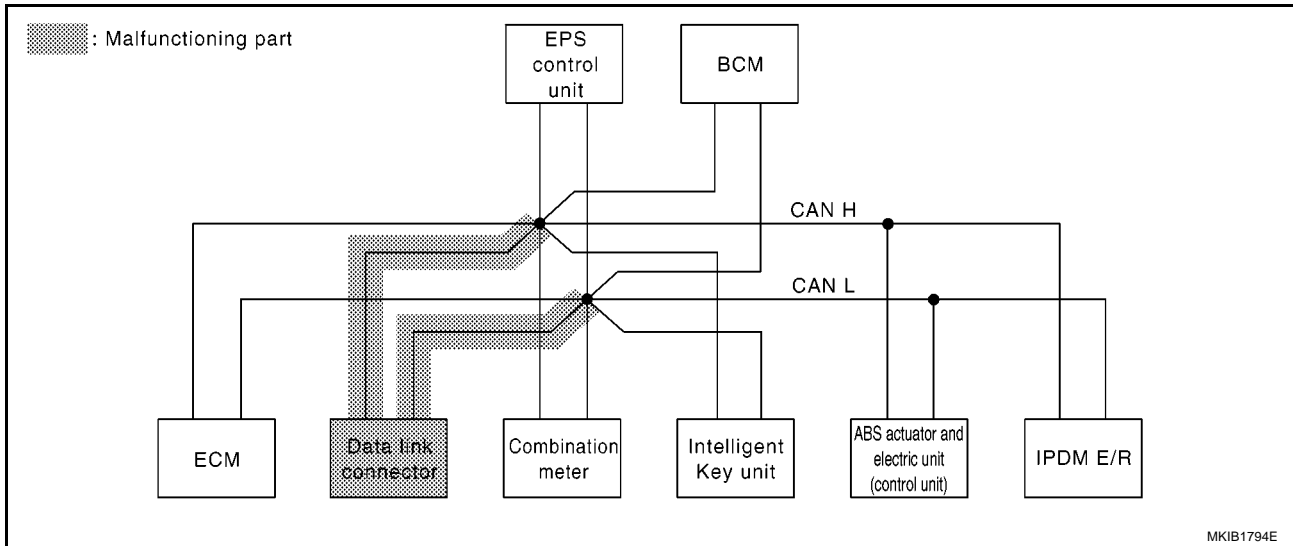
Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector Circuit Inspection"](#) .

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

PKIC9286E

PKIC9286E



MKIB1794E

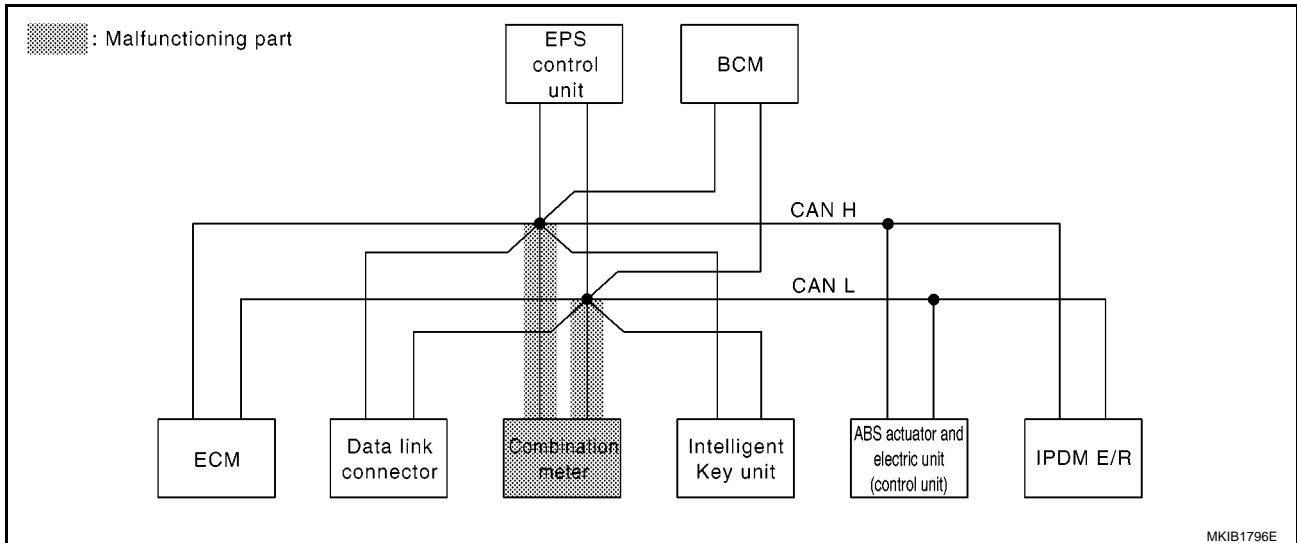
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

PKIC9287E

PKIC9287E



MKIB1796E

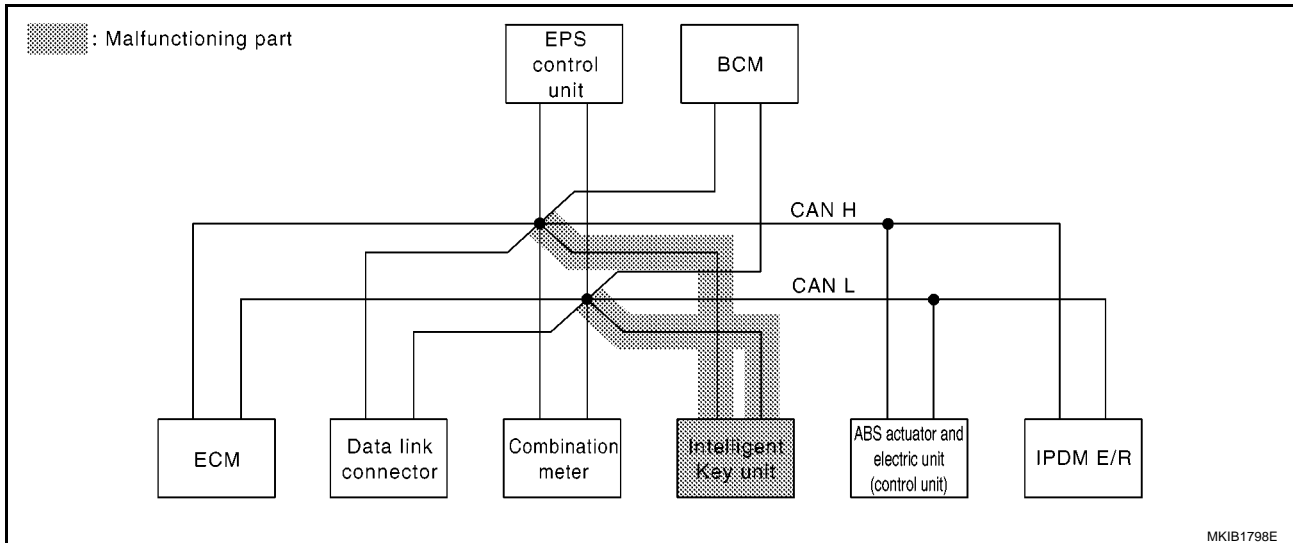
Case 5

Check Intelligent Key unit circuit. Refer to [LAN-184, "Intelligent Key Unit Circuit Inspection"](#) .

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

PKIC9288E

PKIC9288E



MKIB1798E

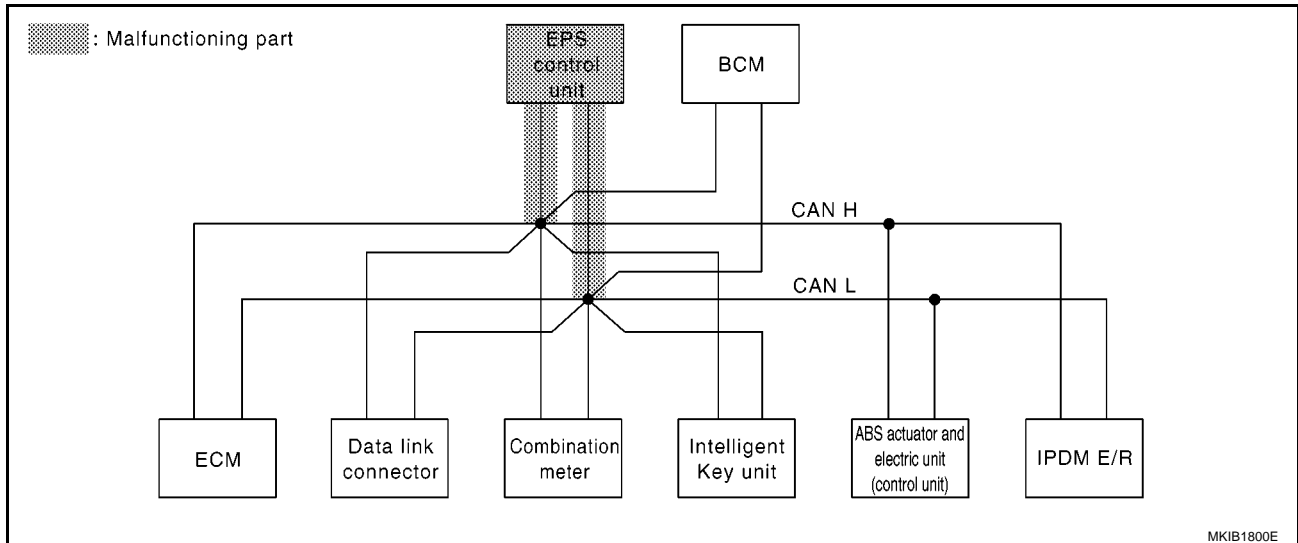
Case 6

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#).

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

PKIC9289E

PKIC9289E



MKIB1800E

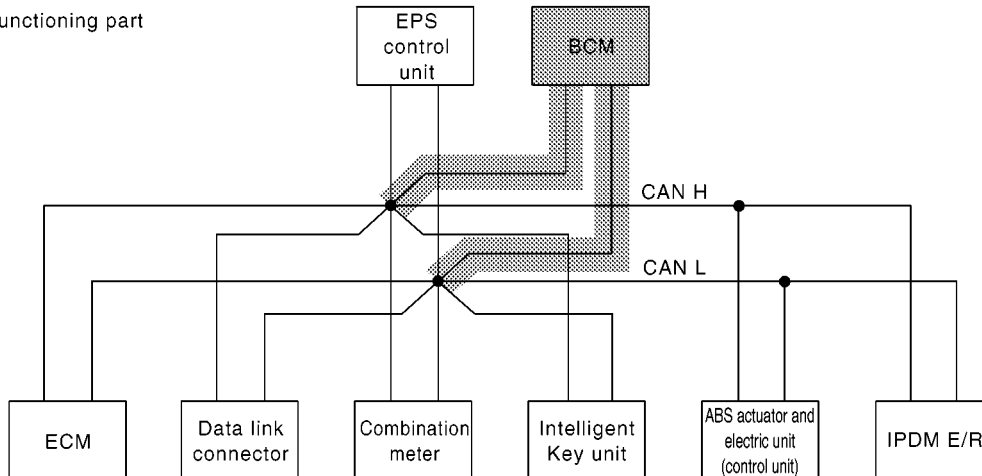
Case 7

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#) .

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

PKIC9290E

 : Malfunctioning part



MKIB1802E

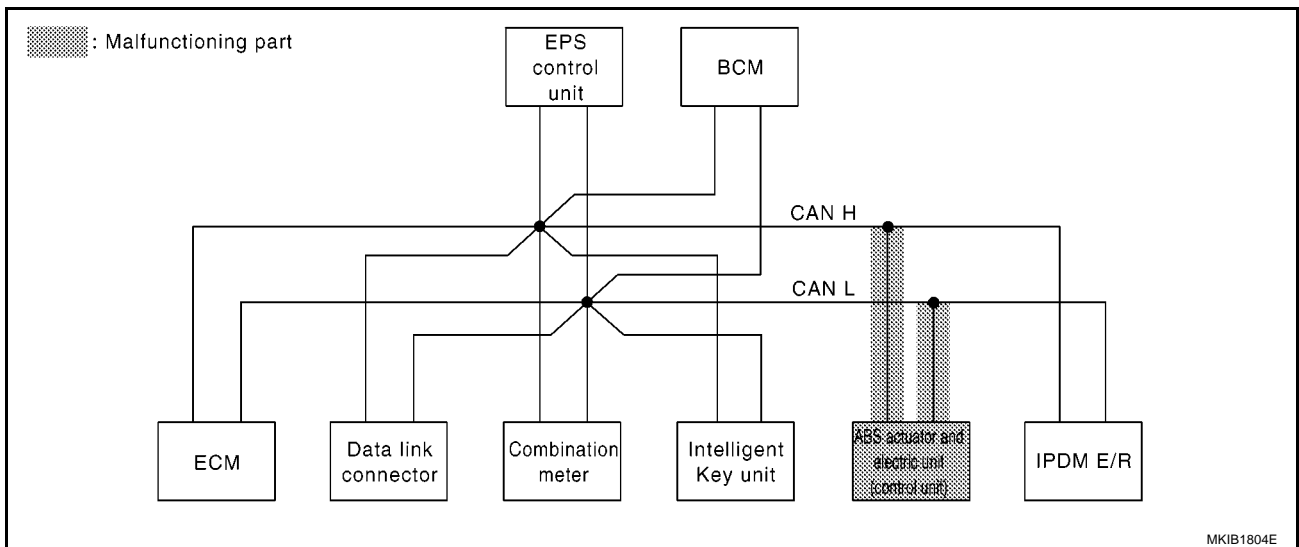
Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

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

PKIC9291E

PKIC9291E



MKIB1804E

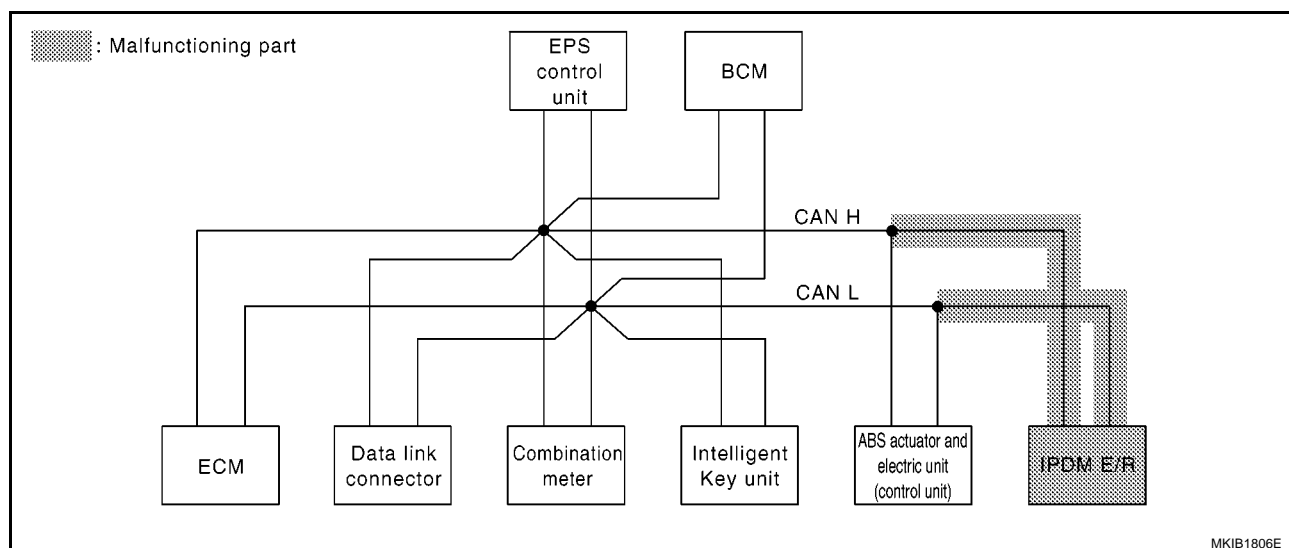
Case 9

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

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

PKIC9292E

PKIC9292E



MKIB1806E

Case 10

Check CAN communication circuit. Refer to [LAN-188, "CAN Communication Circuit Inspection"](#) .

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

PKIC9293F

PKIC9293E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9294E

PKIC9294E

CAN SYSTEM (TYPE 2)

[CAN]

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9295E

PKIC9295E

CAN SYSTEM (TYPE 3)

PFP:23710

Component Parts and Harness Connector Location

BKS001J2

Refer to LAN-21, "Component Parts and Harness Connector Location" .

Wiring Diagram — CAN —

BKS001J4

Refer to LAN-23, "Wiring Diagram — CAN —" .

Check Sheet

BKS001LG

Refer to LAN-66, "Check Sheet" .

A

B

C

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LAN

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CAN SYSTEM (TYPE 3)

[CAN]

Check Sheet

BKS001J5

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

PKIC9197E

CAN SYSTEM (TYPE 3)

[CAN]

A
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LAN
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M

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC9192E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

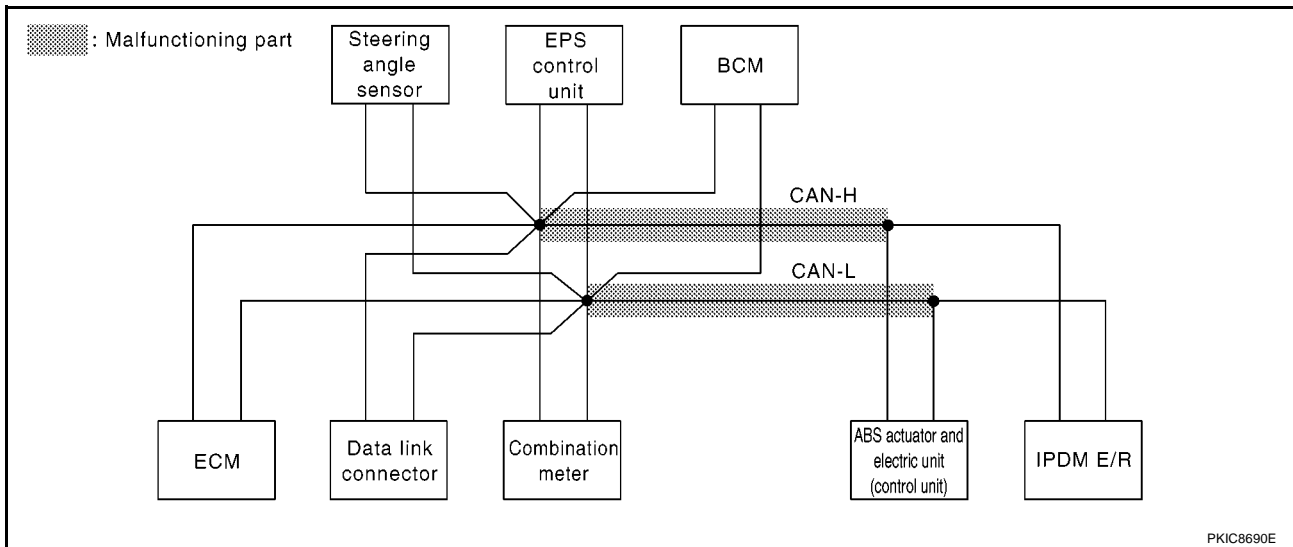
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

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

PKIC9296E

PKIC9296E



PKIC8690E

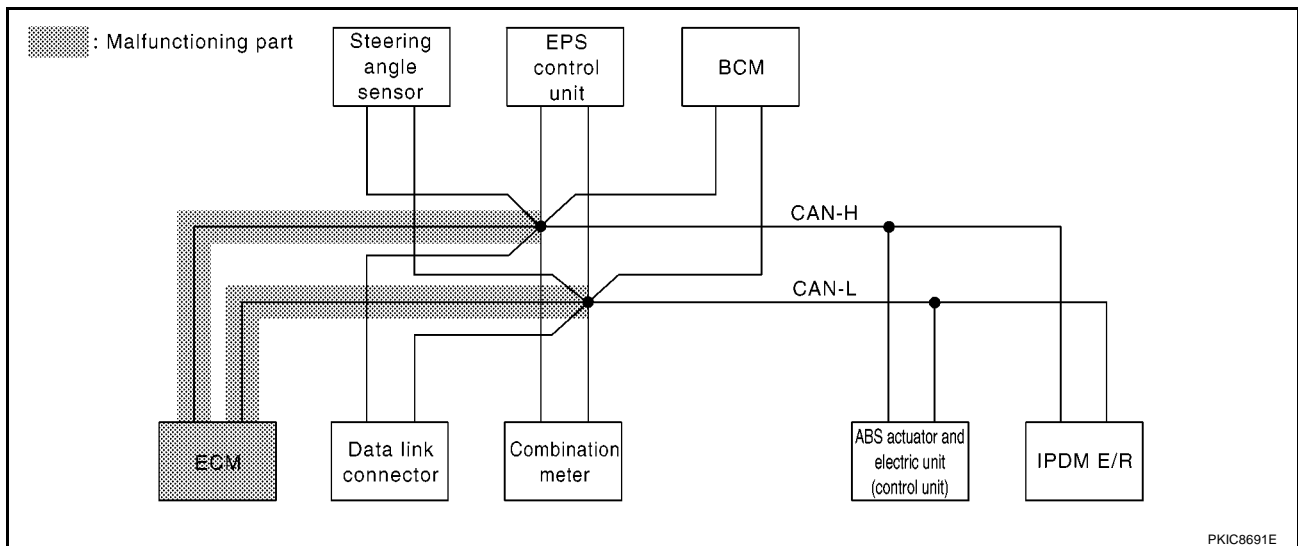
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#).

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

PKIC9297E

PKIC9297E



PKIC8691E

CAN SYSTEM (TYPE 3)

[CAN]

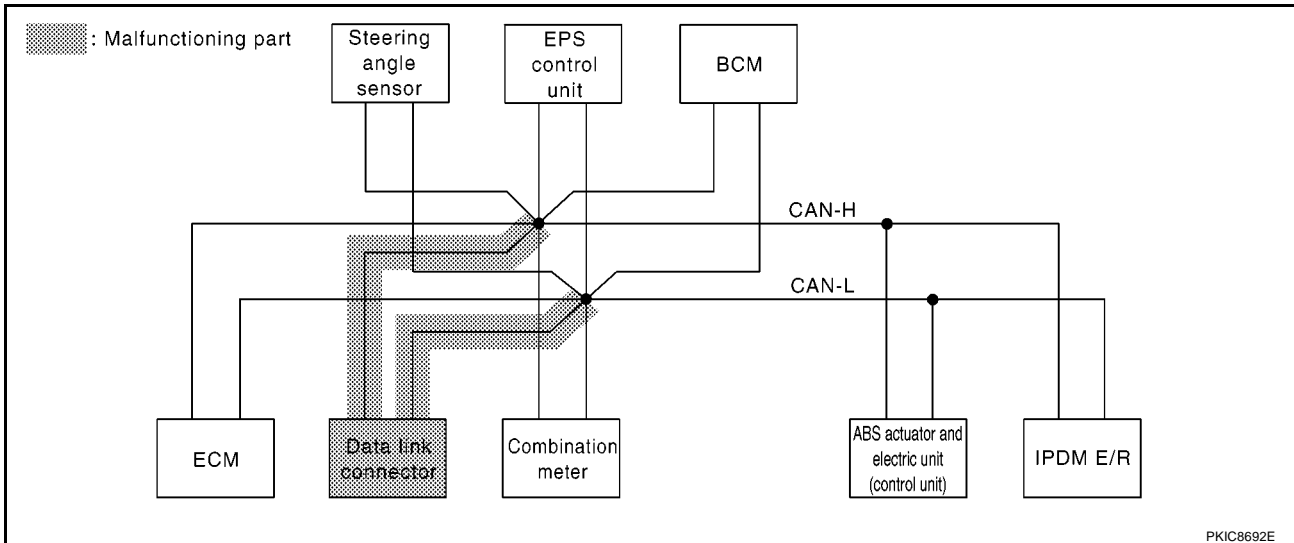
Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector Circuit Inspection"](#) .

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

PKIC9298E

PKIC9298E



PKIC8692E

CAN SYSTEM (TYPE 3)

[CAN]

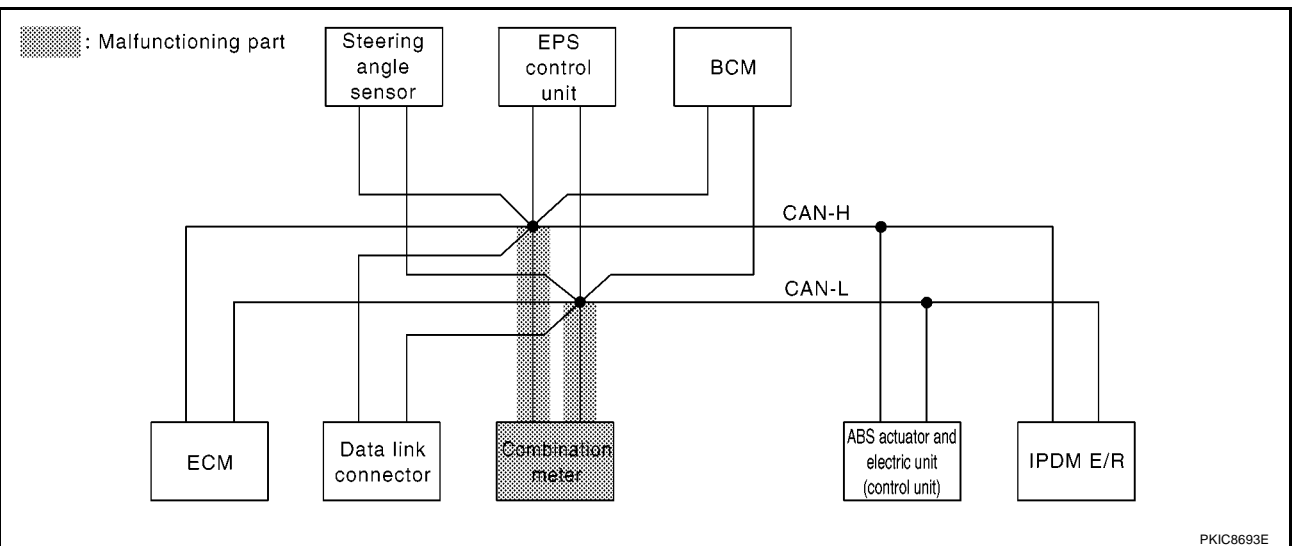
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

PKIC9299E

PKIC9299E



PKIC8693E

CAN SYSTEM (TYPE 3)

[CAN]

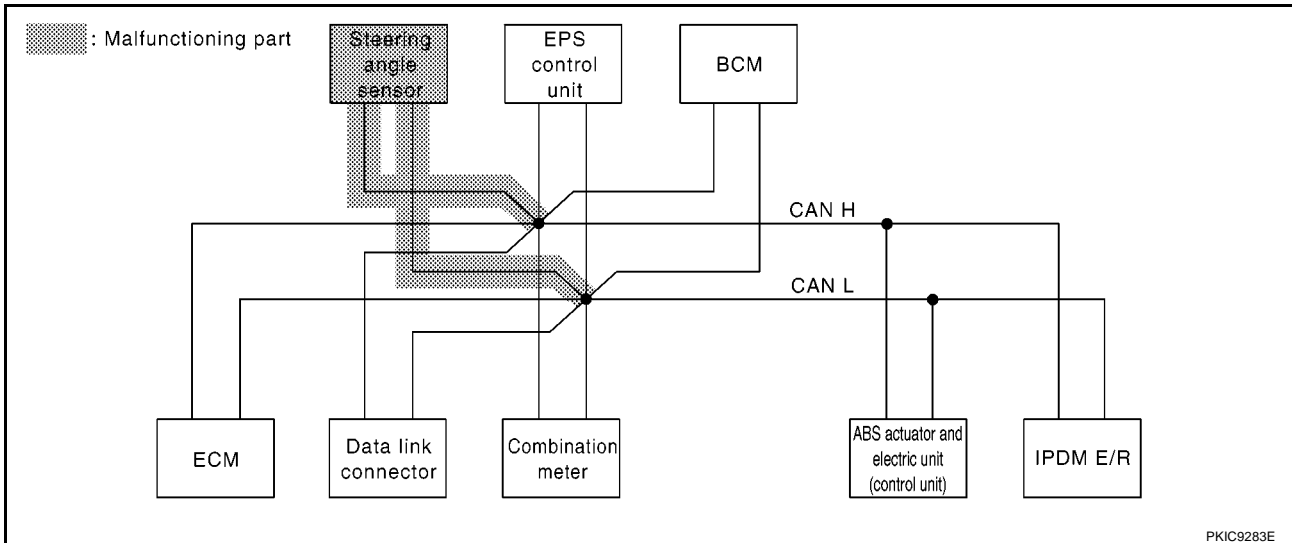
Case 5

Check steering angle sensor circuit. Refer to [LAN-185, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC9300E

PKIC9300E



PKIC9283E

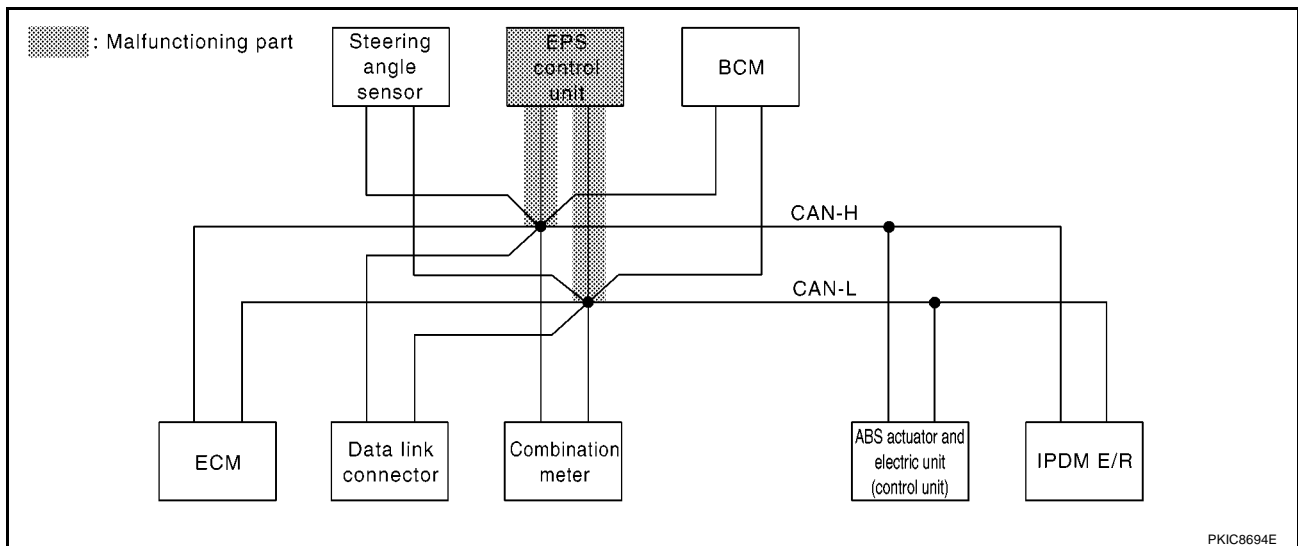
Case 6

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#).

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

PKIC9301E

PKIC9301E



PKIC8694E

CAN SYSTEM (TYPE 3)

[CAN]

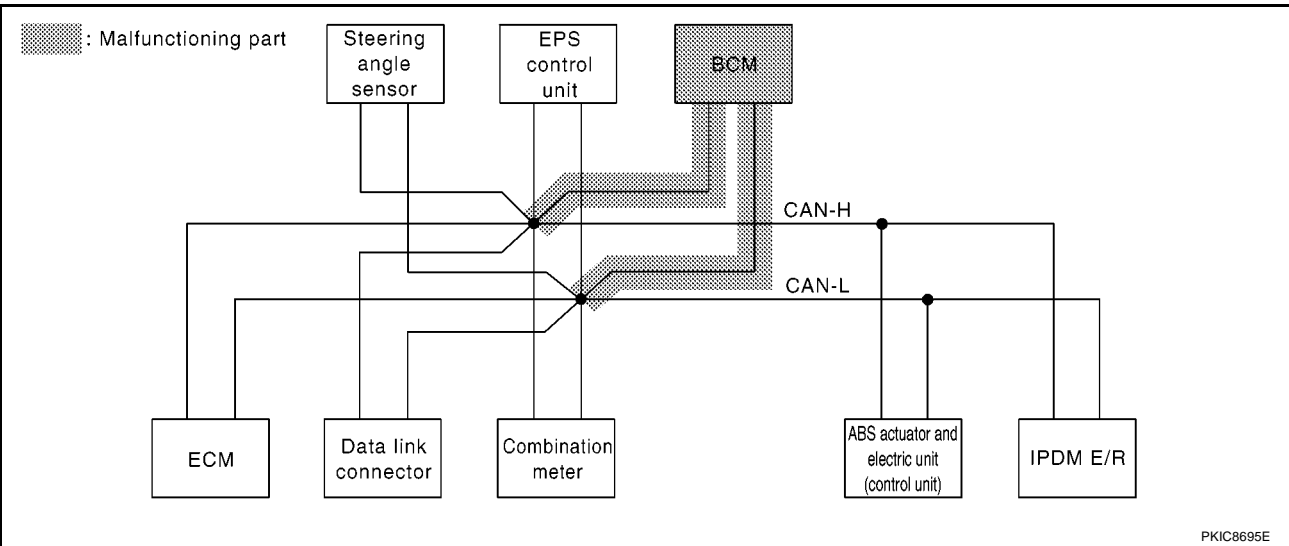
Case 7

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#) .

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

PKIC9302E

PKIC9302E



PKIC8695E

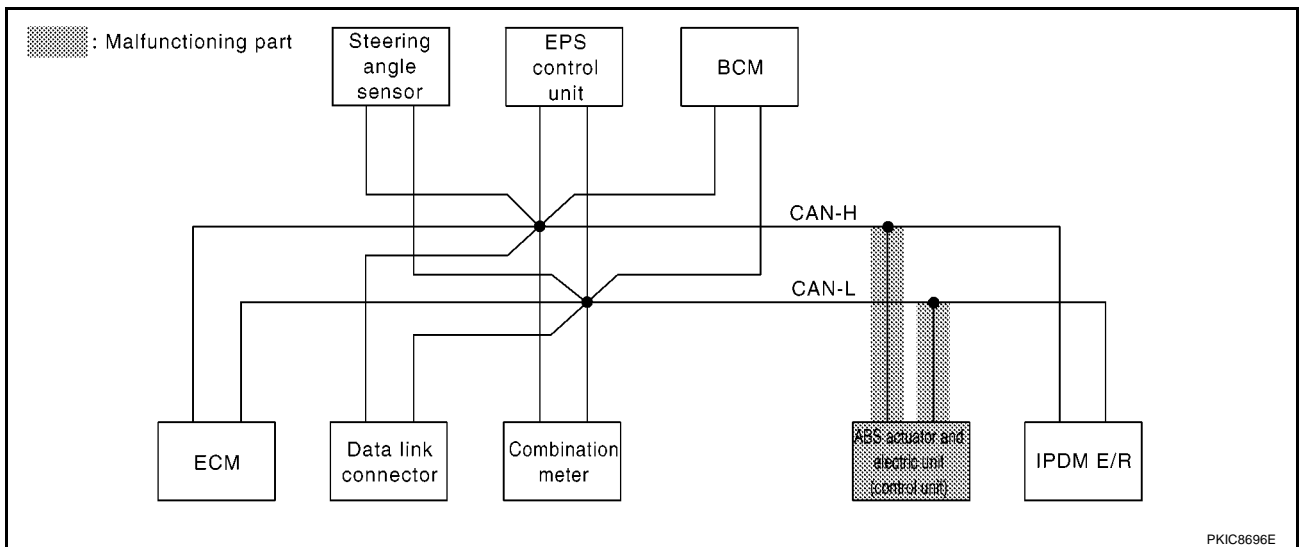
Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	STRG	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001) ✓
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	✓	UNKWN	CAN COMM CIRCUIT (U000) ✓	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	✓	UNKWN	CAN COMM CIRCUIT (U000)	—
ABS	✓ No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC9303E

PKIC9303E



PKIC8696E

CAN SYSTEM (TYPE 3)

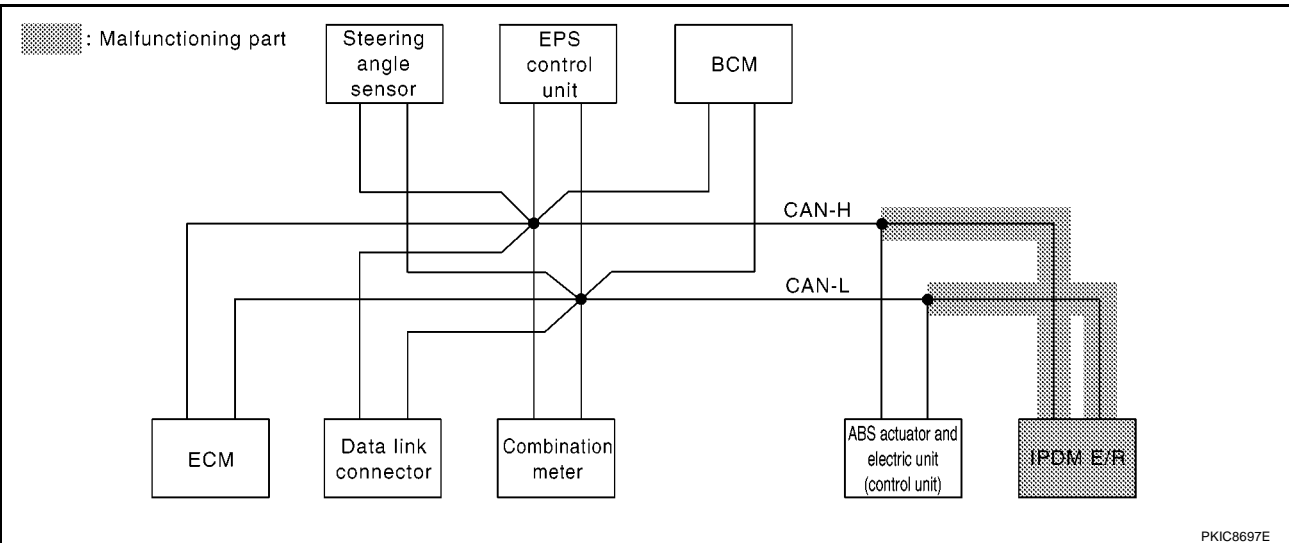
[CAN]

Case 9

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	STRG	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001) ✓
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
ABS	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—
PKIC9304E												

PKIC9304E



PKIC8697E

Case 10

Check CAN communication circuit. Refer to [LAN-188, "CAN Communication Circuit Inspection"](#) .

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

PKIC9305F

PKIC9305E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9306F

PKIC9306E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9307E

PKIC9307E

CAN SYSTEM (TYPE 4)

PFP:23710

Component Parts and Harness Connector Location

BKS001J6

Refer to LAN-21, "Component Parts and Harness Connector Location" .

Wiring Diagram — CAN —

BKS001J8

Refer to LAN-23, "Wiring Diagram — CAN —" .

Check Sheet

BKS001LH

Refer to LAN-80, "Check Sheet" .

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LAN

L

M

CAN SYSTEM (TYPE 4)

[CAN]

Check Sheet

BKS001J9

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	METER /M&A	I-KEY	STRG	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	No indication	—	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

PKIC9198E

CAN SYSTEM (TYPE 4)

[CAN]

A
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Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC9146E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

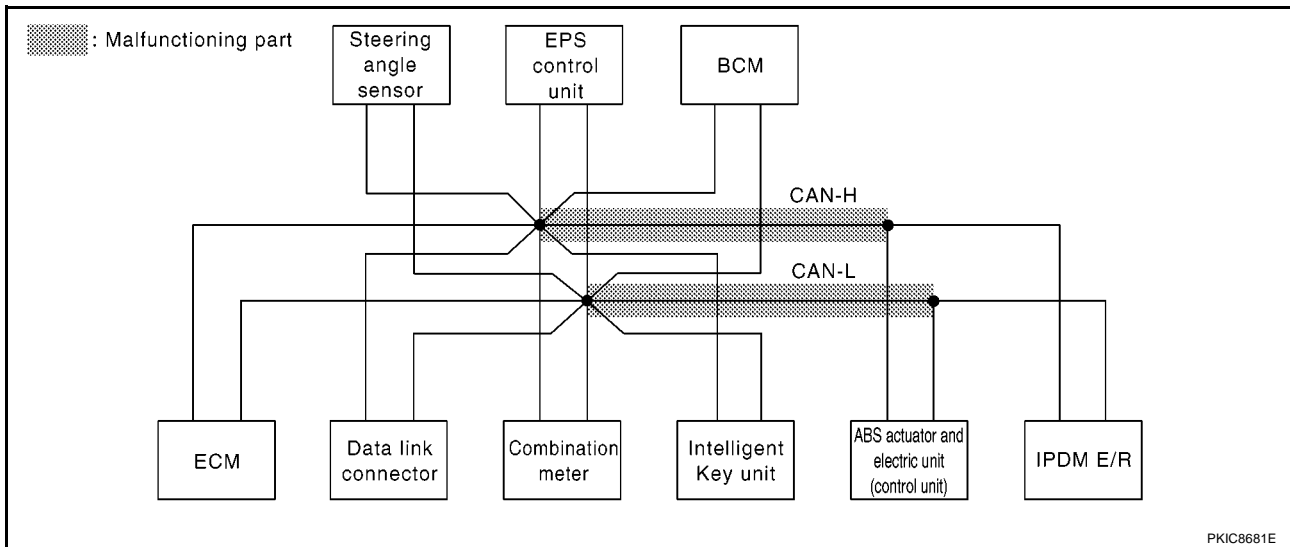
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

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

PKIC9308E

PKIC9308E



PKIC8681E

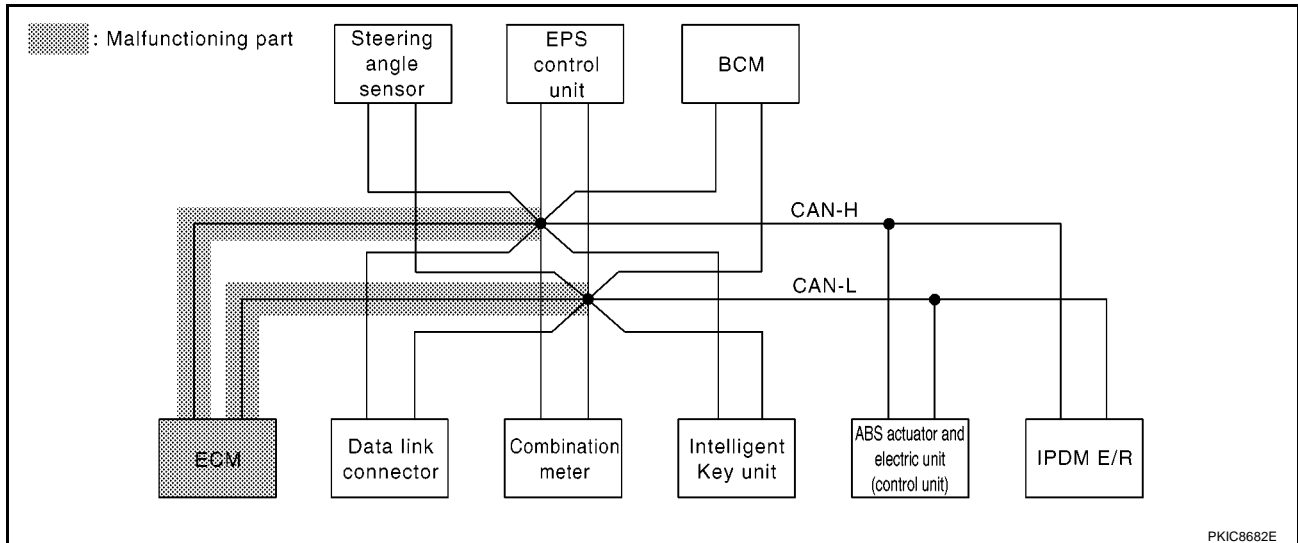
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#) .

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

PKIC9309E

PKIC9309E



PKIC8682E

CAN SYSTEM (TYPE 4)

[CAN]

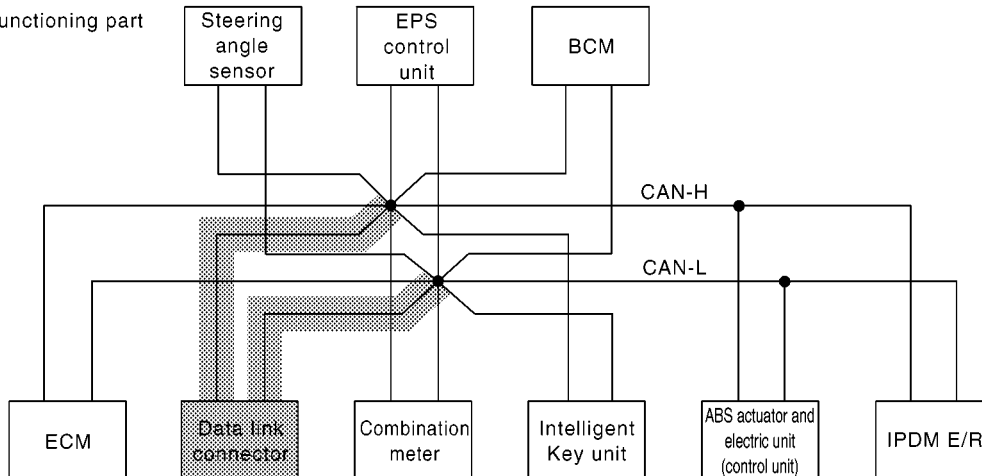
Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector Circuit Inspection"](#) .

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

PKIC9310E

 : Malfunctioning part



PKIC8683E

CAN SYSTEM (TYPE 4)

[CAN]

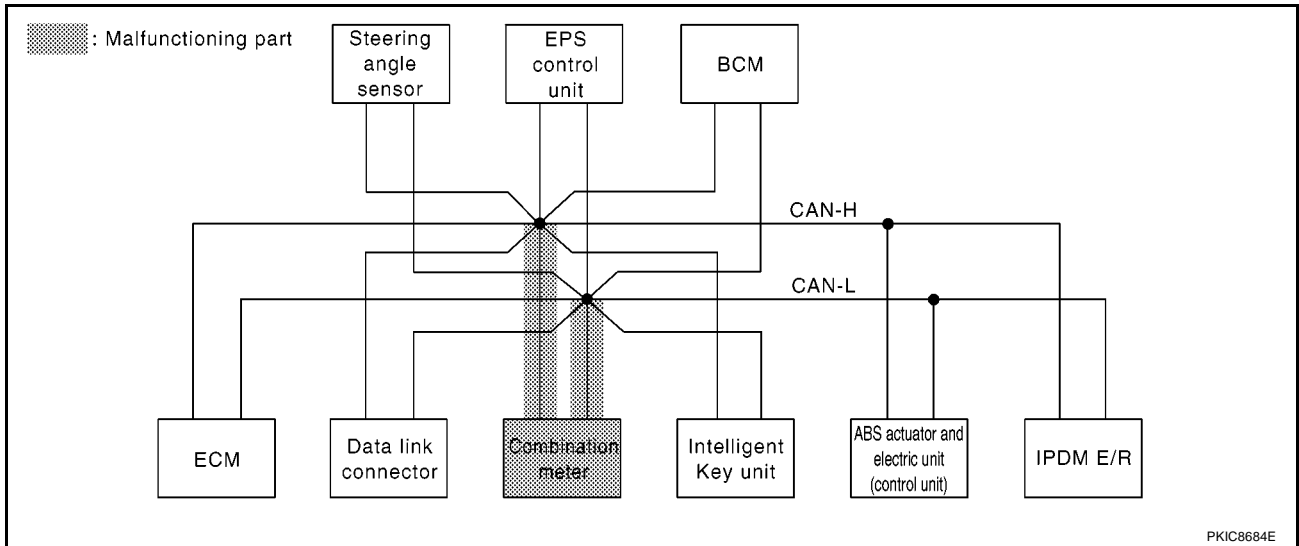
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

PKIC9311E

PKIC9311E



PKIC8684E

CAN SYSTEM (TYPE 4)

[CAN]

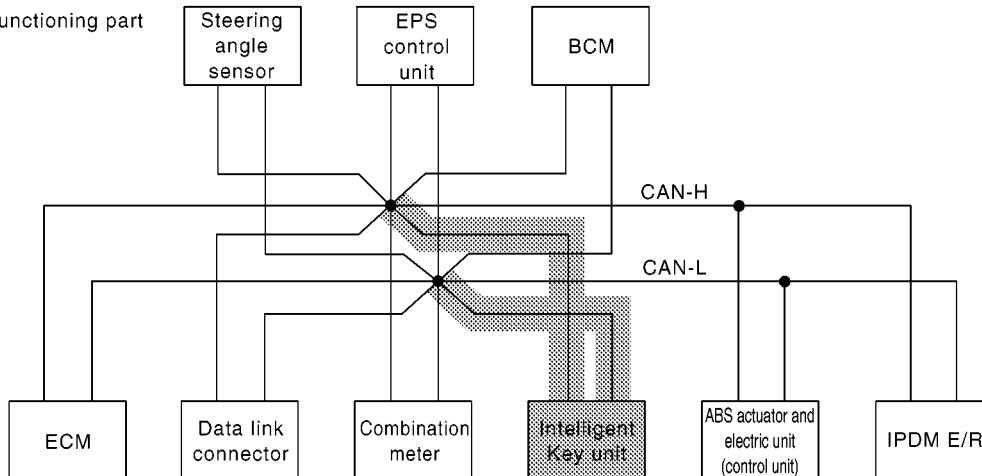
Case 5

Check Intelligent Key unit circuit. Refer to [LAN-184, "Intelligent Key Unit Circuit Inspection"](#) .

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

PKIC9312E

■ : Malfunctioning part



PKIC8685E

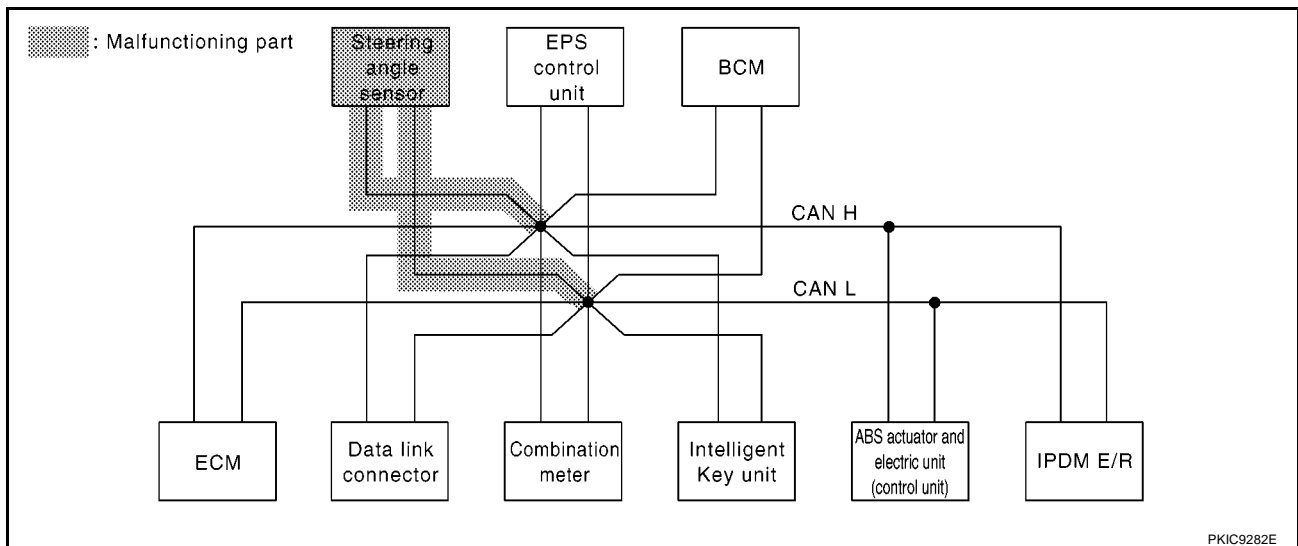
Case 6

Check steering angle sensor circuit. Refer to [LAN-185, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC9313E

PKIC9313E



PKIC9282E

CAN SYSTEM (TYPE 4)

[CAN]

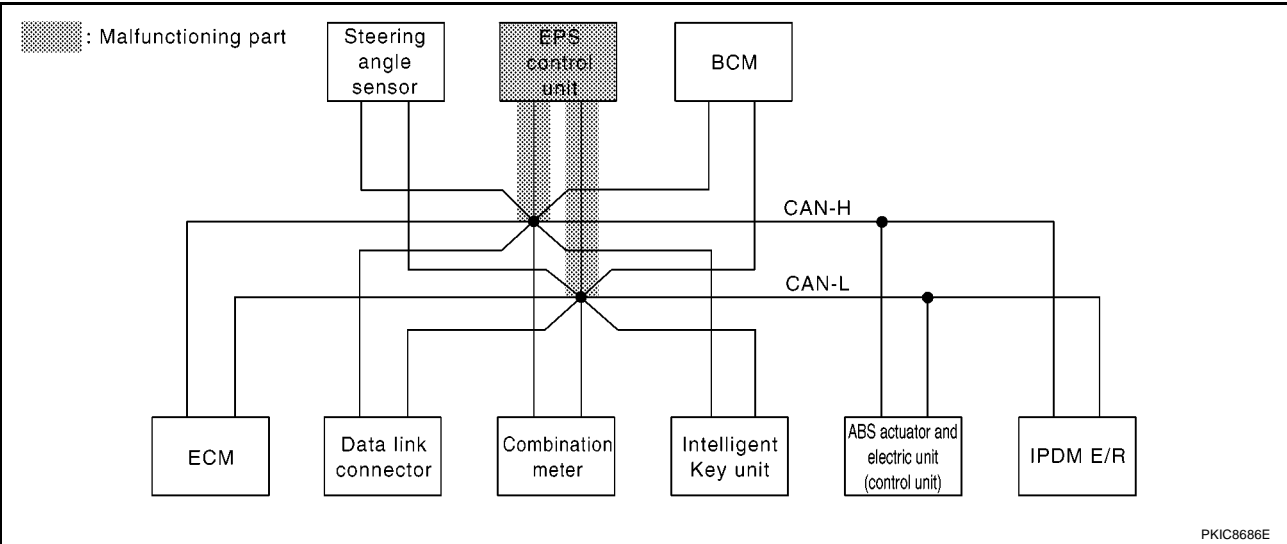
Case 7

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#) .

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

PKIC9314E

PKIC9314E



PKIC8686E

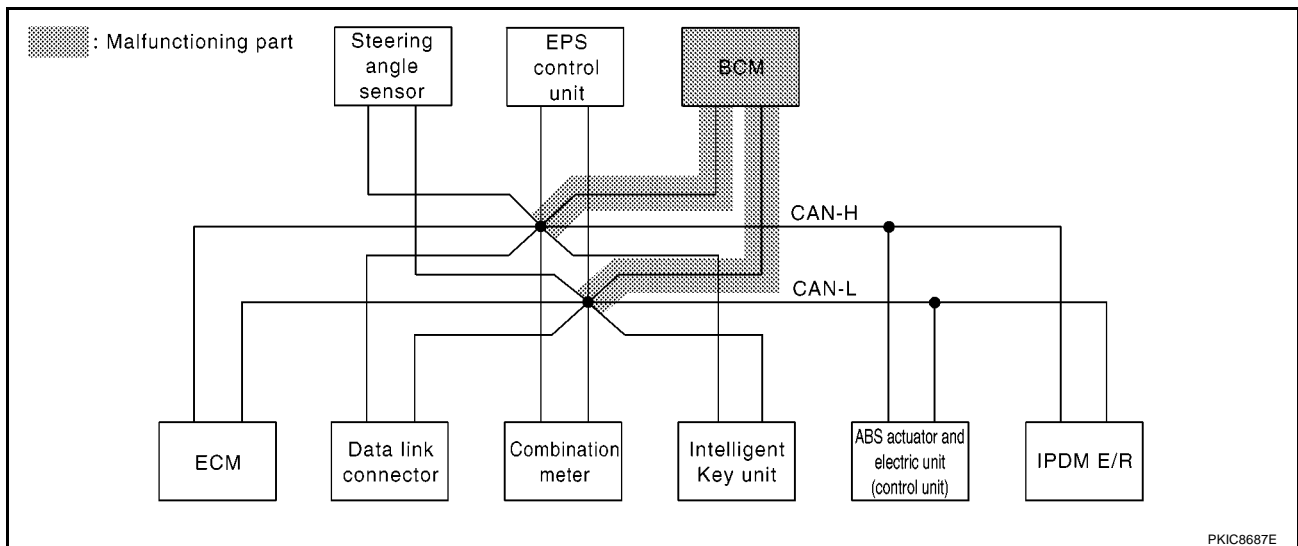
Case 8

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#).

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

PKIC9315E

PKIC9315E



PKIC8687E

CAN SYSTEM (TYPE 4)

[CAN]

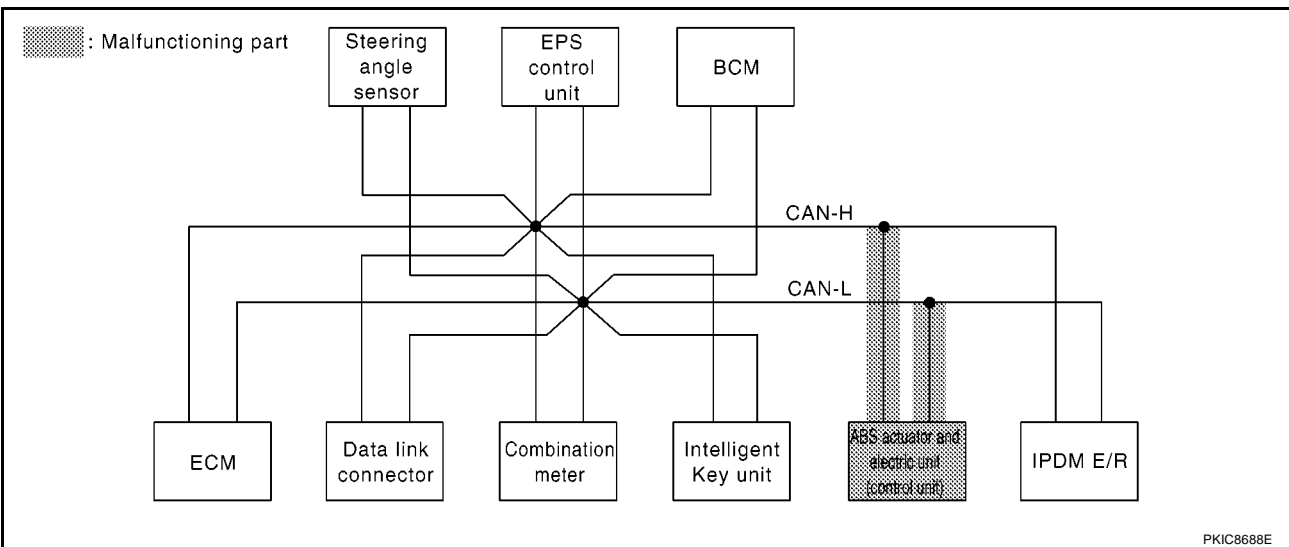
Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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

PKIC9316E

PKIC9316E



PKIC8688E

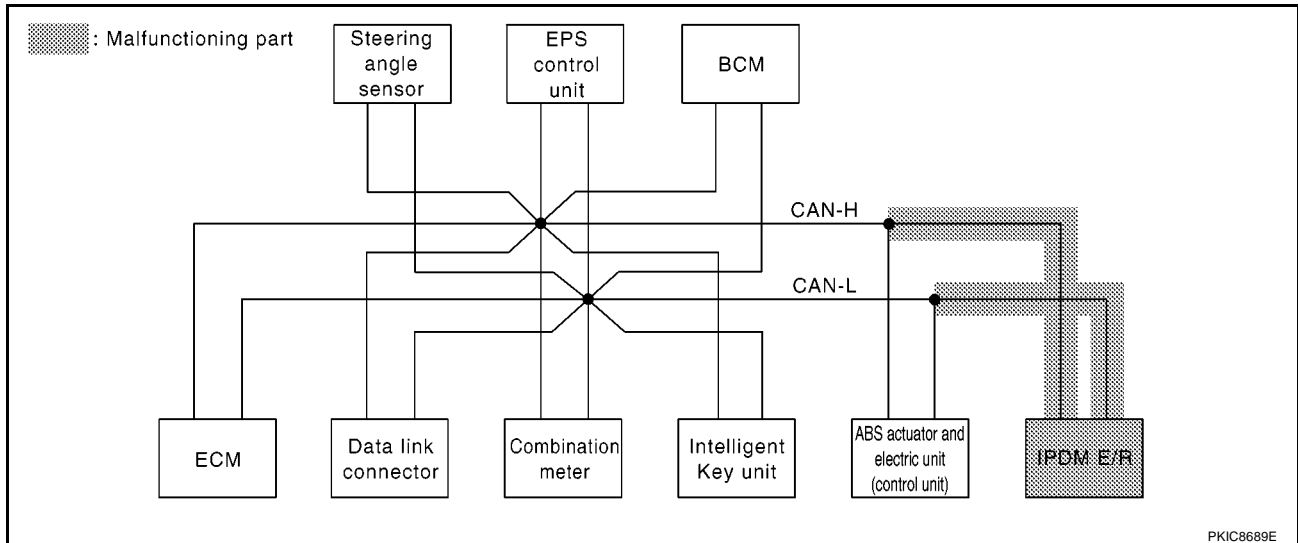
Case 10

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

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

PKIC9317E

PKIC9317E



PKIC8689E

Case 11

Check CAN communication circuit. Refer to [LAN-188. "CAN Communication Circuit Inspection"](#) .

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

PKIC9318E

PKIC9318E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190. "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9319E

PKIC9319E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9320E

PKIC9320E

CAN SYSTEM (TYPE 5)

PFP:23710

Component Parts and Harness Connector Location

BKS001JA

Refer to [LAN-21, "Component Parts and Harness Connector Location"](#) .

Wiring Diagram — CAN —

BKS001JC

Refer to [LAN-23, "Wiring Diagram — CAN —"](#) .

Check Sheet

BKS001LI

Refer to [LAN-95, "Check Sheet"](#) .

CAN SYSTEM (TYPE 5)

[CAN]

Check Sheet

BKS001L4

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	METER /M&A	EPS	BCM /SEC	VDC/TCS /ABS	TCM	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	No indication	NG	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
A/T	—	NG	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

PKIC9199E

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M

CAN SYSTEM (TYPE 5)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
A/T
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC9193E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

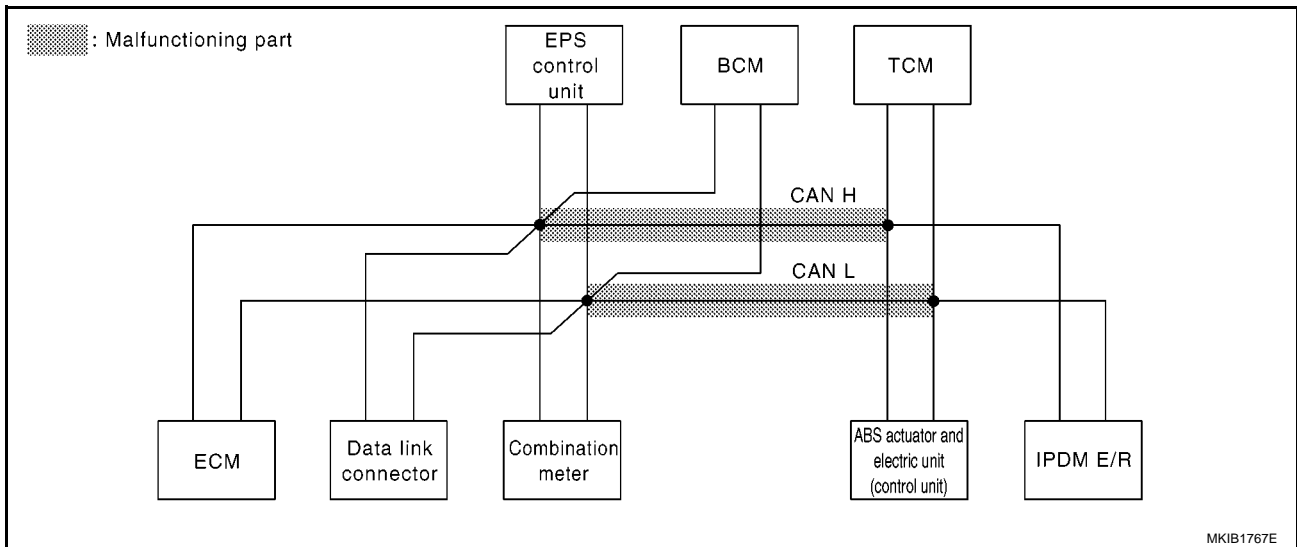
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	EPS	BCM /SEC	VDC/TCS /ABS	TCM	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	✓	✓	✓	CAN COMM CIRCUIT (U000) ✓	CAN COMM CIRCUIT (U001) ✓
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	✓	—	—	CAN COMM CIRCUIT (U000) ✓	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	—	—	✓	—	✓	CAN COMM CIRCUIT (U000) ✓	—
ABS	✓ No indication	NG	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U000) ✓	—
A/T	—	NG	UNKWN	✓	✓	—	—	—	—	—	CAN COMM CIRCUIT (U000) ✓	—
IPDM E/R	✓ No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U000) ✓	—

PKIC9244E

PKIC9244E



MKIB1767E

CAN SYSTEM (TYPE 5)

[CAN]

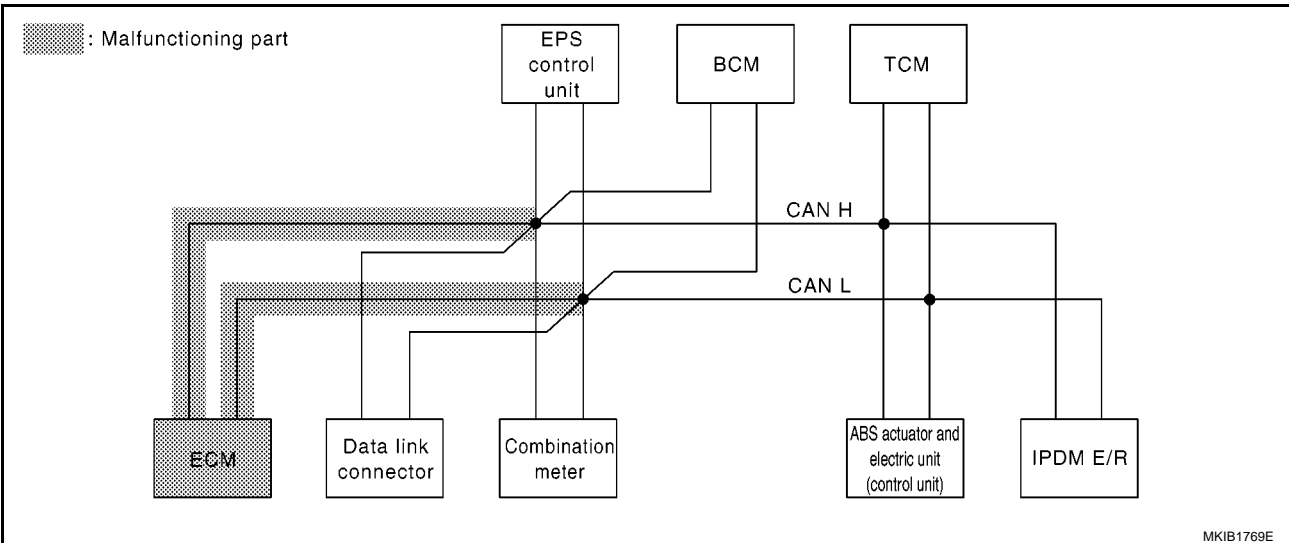
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	EPS	BCM /SEC	VDC/TCS /ABS	TCM	IPDM E/R		
ENGINE	—	—	✓ UNKW _N	—	—	✓ UNKW _N	✓ UNKW _N	✓ UNKW _N	✓ UNKW _N	✓ UNKW _N	CAN COMM CIRCUIT (U ₀₀) ✓	CAN COMM CIRCUIT (U ₀₁) ✓
EPS	No indication	—	UNKW _N	✓ UNKW _N	UNKW _N	—	—	UNKW _N	—	—	CAN COMM CIRCUIT (U ₀₀) ✓	—
BCM	No indication	—	UNKW _N	✓ UNKW _N	UNKW _N	—	—	UNKW _N	—	UNKW _N	CAN COMM CIRCUIT (U ₀₀) ✓	—
ABS	No indication	NG	—	✓ UNKW _N	—	—	—	—	—	—	CAN COMM CIRCUIT (U ₀₀) ✓	—
A/T	—	NG	UNKW _N	✓ UNKW _N	UNKW _N	—	—	—	—	—	CAN COMM CIRCUIT (U ₀₀) ✓	—
IPDM E/R	No indication	—	UNKW _N	✓ UNKW _N	—	—	UNKW _N	—	—	—	CAN COMM CIRCUIT (U ₀₀) ✓	—

PKIC9245E

PKIC9245E



MKIB1769E

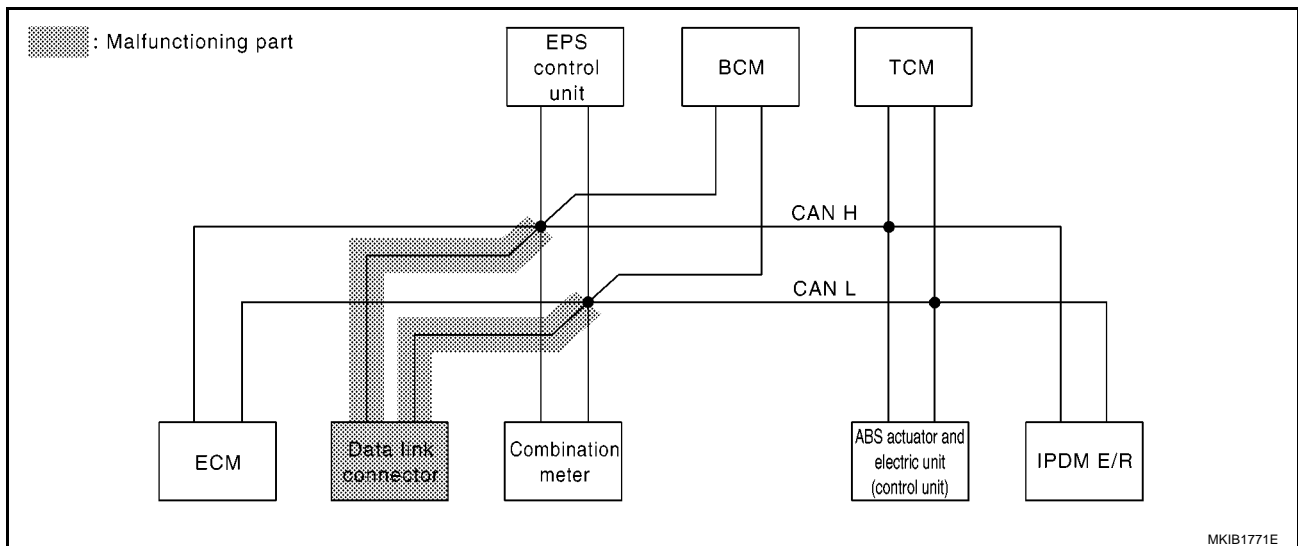
Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector Circuit Inspection"](#) .

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

PKIC9246E

PKIC9246E



MKIB1771E

CAN SYSTEM (TYPE 5)

[CAN]

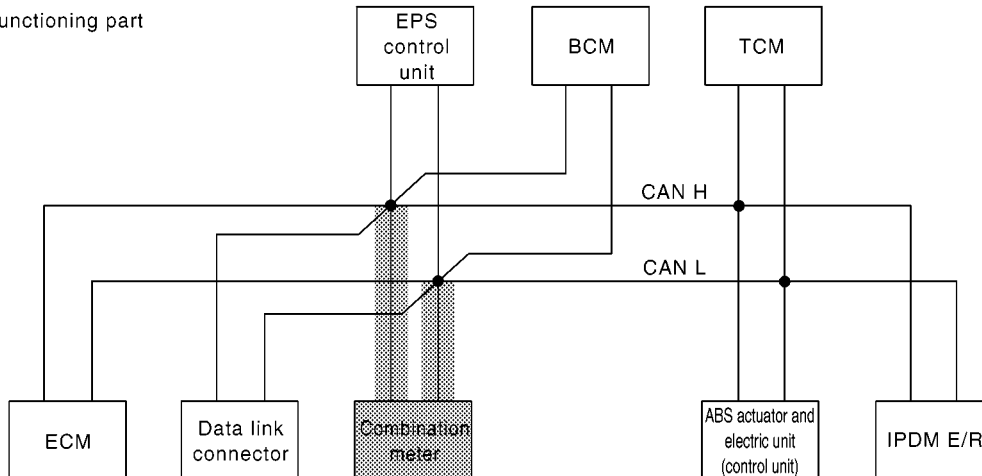
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

PKIC9247E

 : Malfunctioning part



MKIB1773E

CAN SYSTEM (TYPE 5)

[CAN]

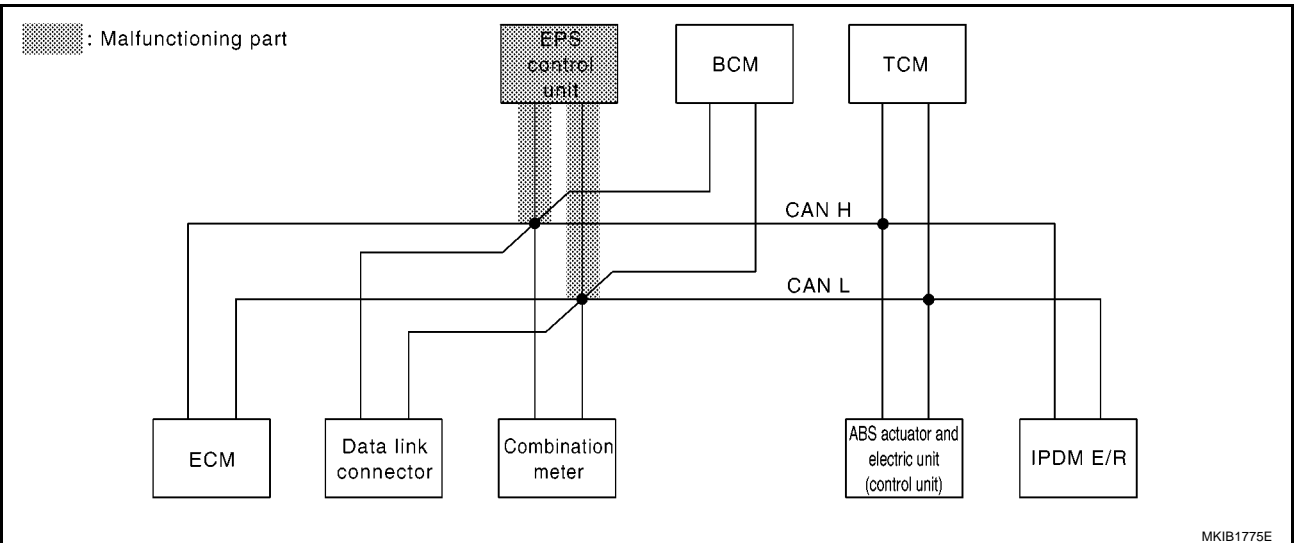
Case 5

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#) .

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

PKIC9248E

PKIC9248E



MKIB1775E

CAN SYSTEM (TYPE 5)

[CAN]

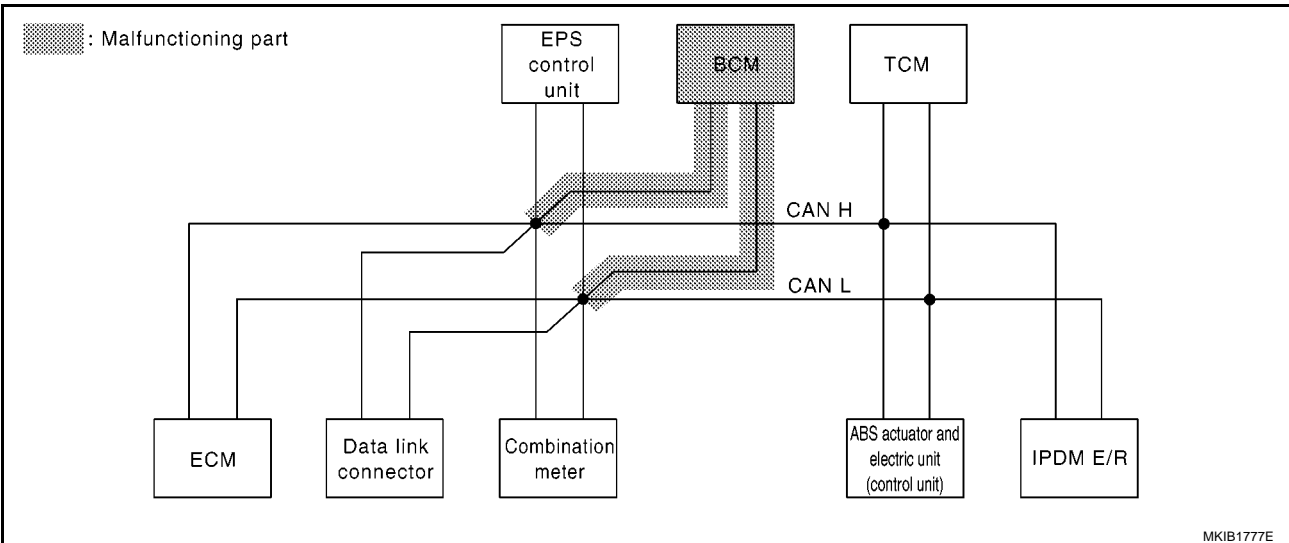
Case 6

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#) .

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

PKIC9249E

PKIC9249E



MKIB1777E

CAN SYSTEM (TYPE 5)

[CAN]

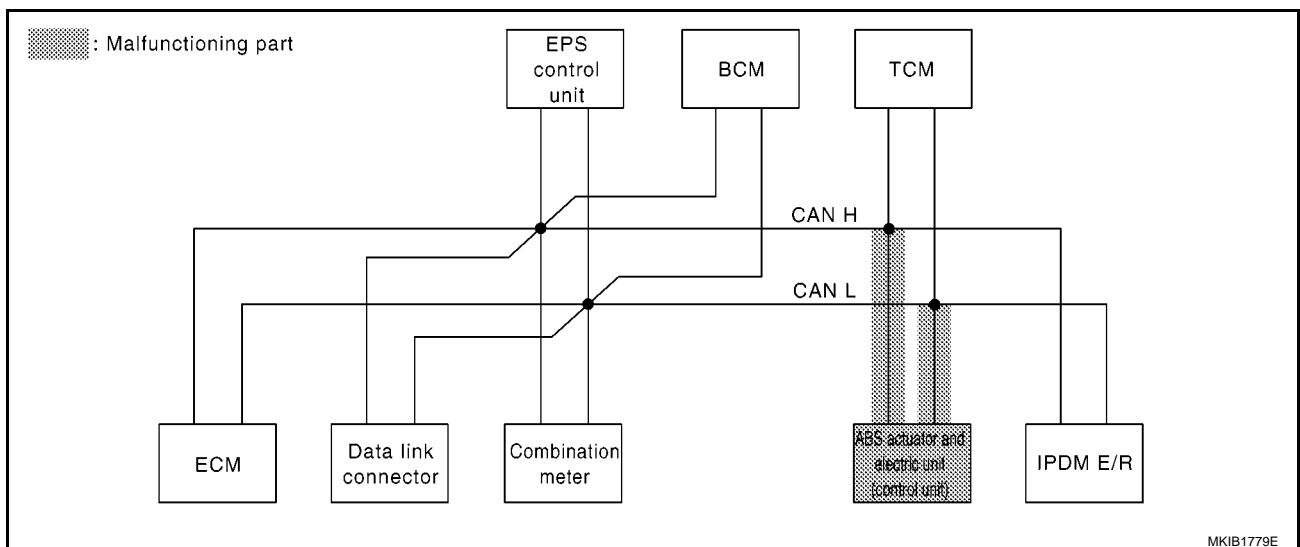
Case 7

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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

PKIC9250E

PKIC9250E



MKIB1779E

CAN SYSTEM (TYPE 5)

[CAN]

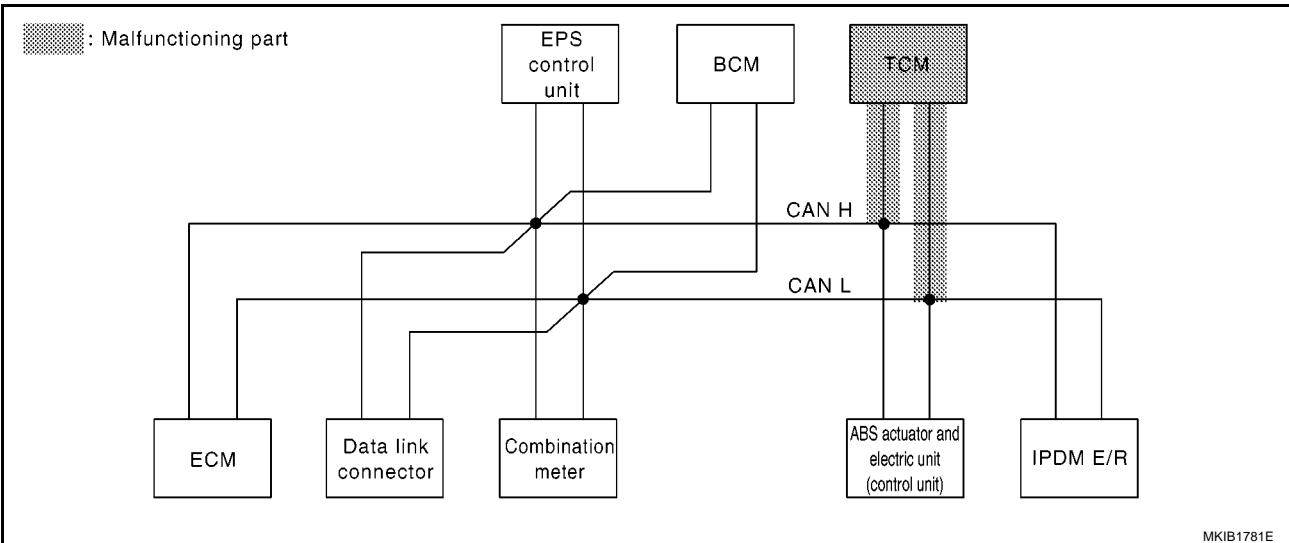
Case 8

Check TCM circuit. Refer to [LAN-187, "TCM Circuit Inspection"](#) .

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

PKIC9251E

PKIC9251E



MKIB1781E

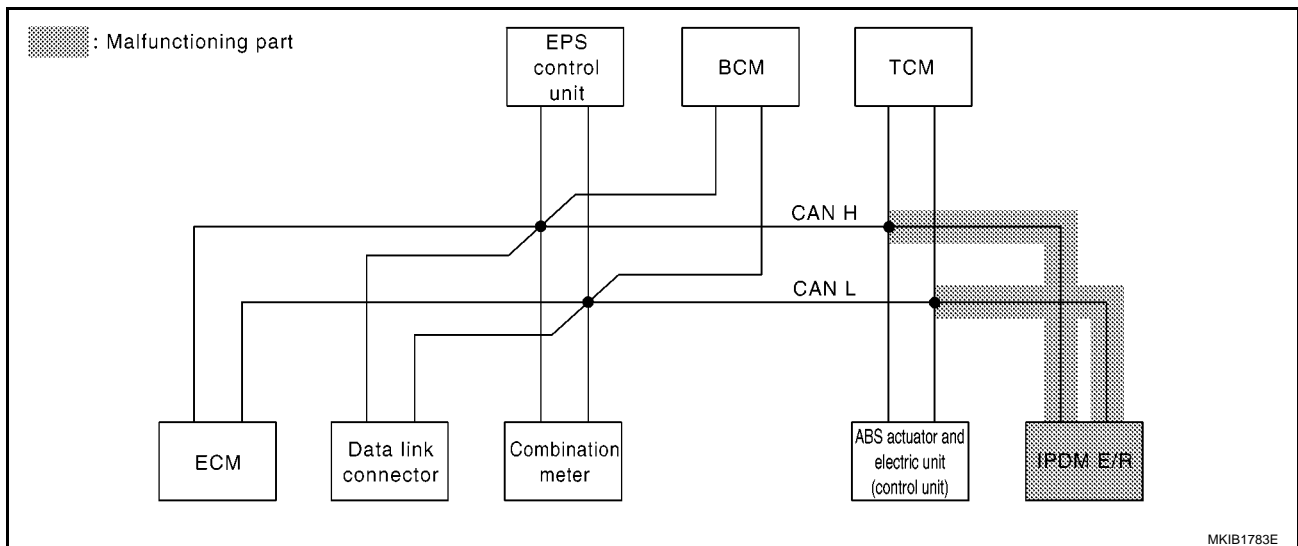
Case 9

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

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

PKIC9252E

PKIC9252E



MKIB1783E

CAN SYSTEM (TYPE 5)

[CAN]

Case 10

Check CAN communication circuit. Refer to [LAN-188. "CAN Communication Circuit Inspection"](#) .

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

PKIC9253E

PKIC9253E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190. "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9254E

PKIC9254E

CAN SYSTEM (TYPE 5)

[CAN]

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9255E

PKIC9255E

A
B
C
D
E
F
G
H
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J
L
M

LAN

CAN SYSTEM (TYPE 6)

PFP:23710

Component Parts and Harness Connector Location

BKS001JE

Refer to [LAN-21, "Component Parts and Harness Connector Location"](#) .

Wiring Diagram — CAN —

BKS001JG

Refer to [LAN-23, "Wiring Diagram — CAN —"](#) .

Check Sheet

BKS001LJ

Refer to [LAN-109, "Check Sheet"](#) .

CAN SYSTEM (TYPE 6)

[CAN]

Check Sheet

BKS001JH

NOTE:

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

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

Check sheet table

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

PKIC9132E

CAN SYSTEM (TYPE 6)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
A/T
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
A/T
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC9194E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

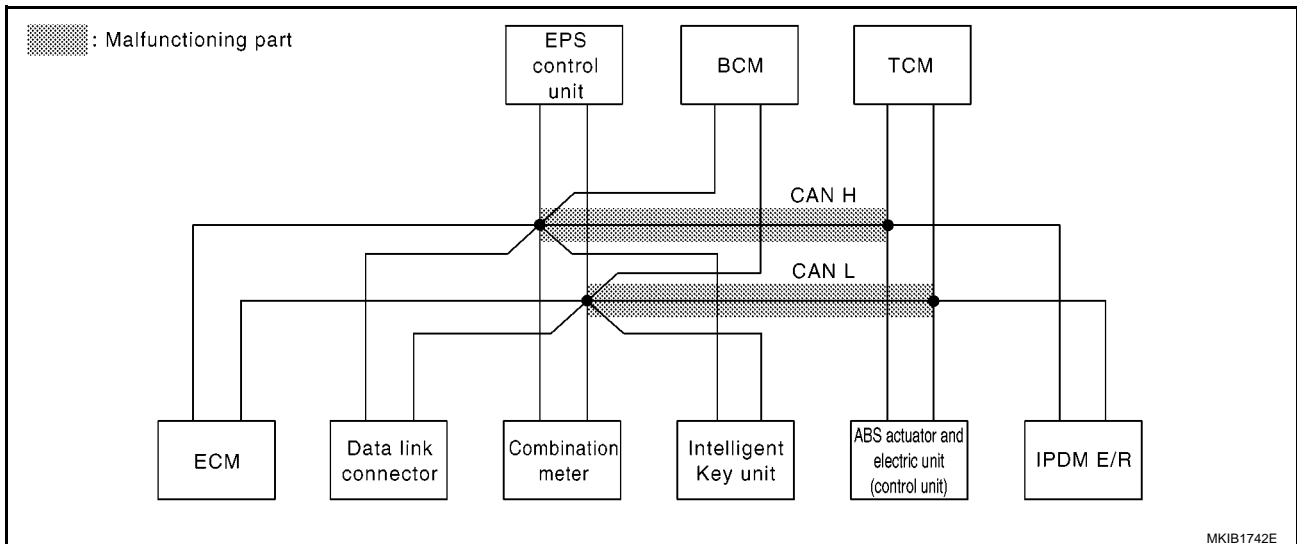
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

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

PKIC9256E

PKIC9256E



MKIB1742E

CAN SYSTEM (TYPE 6)

[CAN]

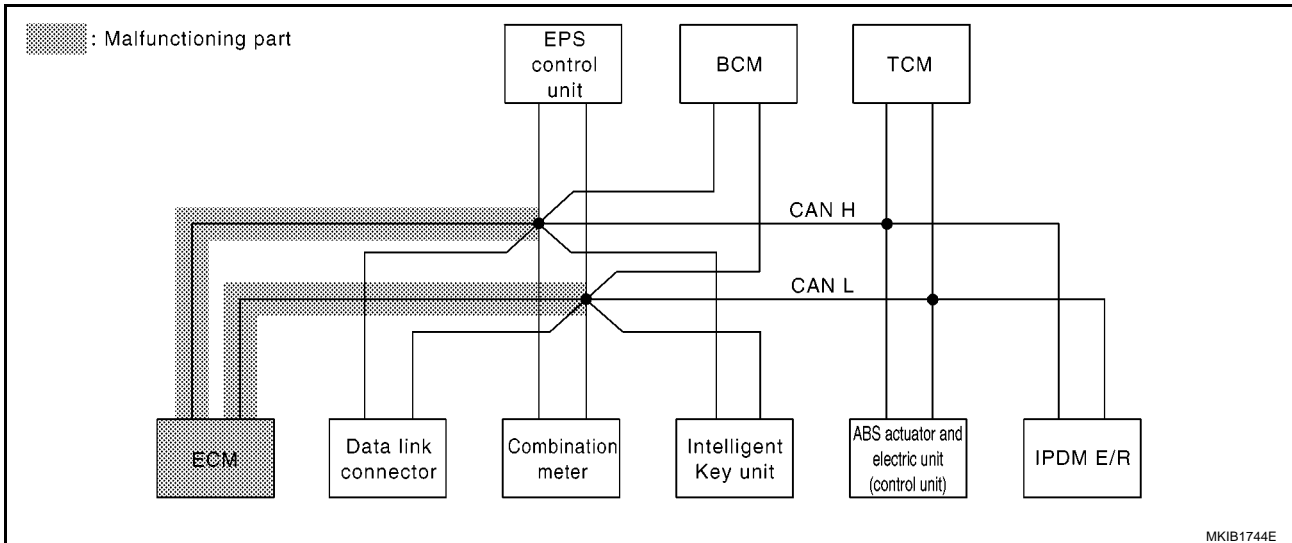
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	TCM	IPDM E/R		
ENGINE	—	—	✓	—	—	—	UNKW	UNKW	✓	✓	✓	CAN COMM CIRCUIT (U000) ✓	CAN COMM CIRCUIT (U001) ✓
INTELLIGENT KEY	No indication	NG	UNKW	✓	UNKW	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U000) ✓	—
EPS	No indication	—	UNKW	✓	UNKW	—	—	—	UNKW	—	—	CAN COMM CIRCUIT (U000) ✓	—
BCM	No indication	—	UNKW	✓	UNKW	UNKW	—	—	UNKW	—	UNKW	CAN COMM CIRCUIT (U000) ✓	—
ABS	No indication	NG	—	✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U000) ✓	—
A/T	—	NG	UNKW	✓	UNKW	—	—	—	—	—	—	CAN COMM CIRCUIT (U000) ✓	—
IPDM E/R	No indication	—	UNKW	✓	—	—	—	UNKW	—	—	—	CAN COMM CIRCUIT (U000) ✓	—

PKIC9257E

PKIC9257E



MKIB1744E

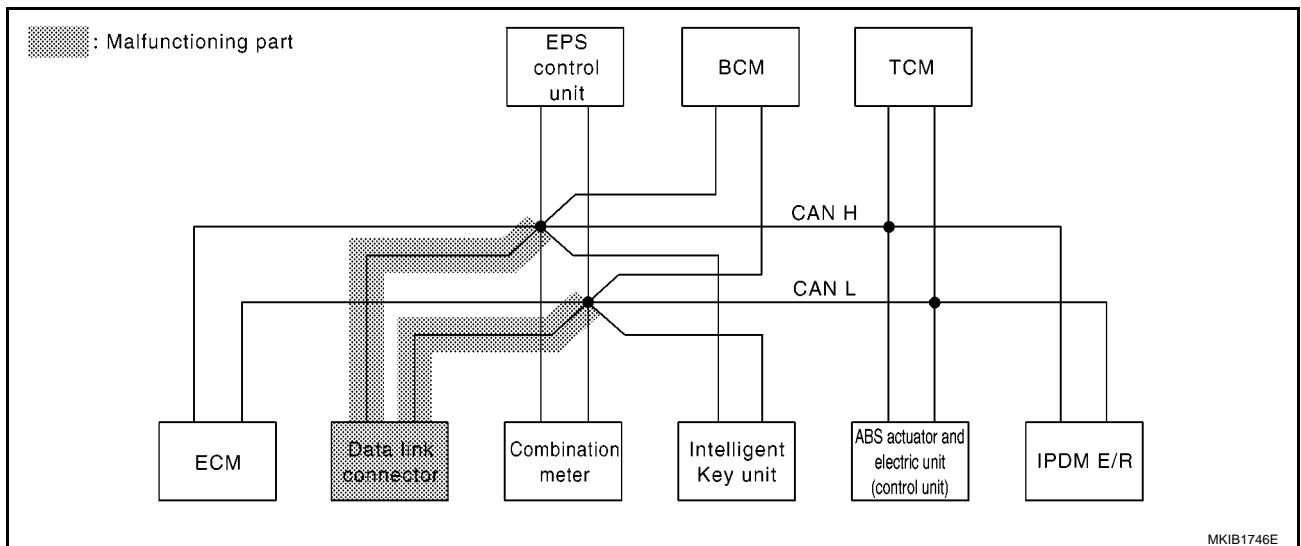
Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector Circuit Inspection"](#) .

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

PKIC9258E

PKIC9258E



MKIB1746E

CAN SYSTEM (TYPE 6)

[CAN]

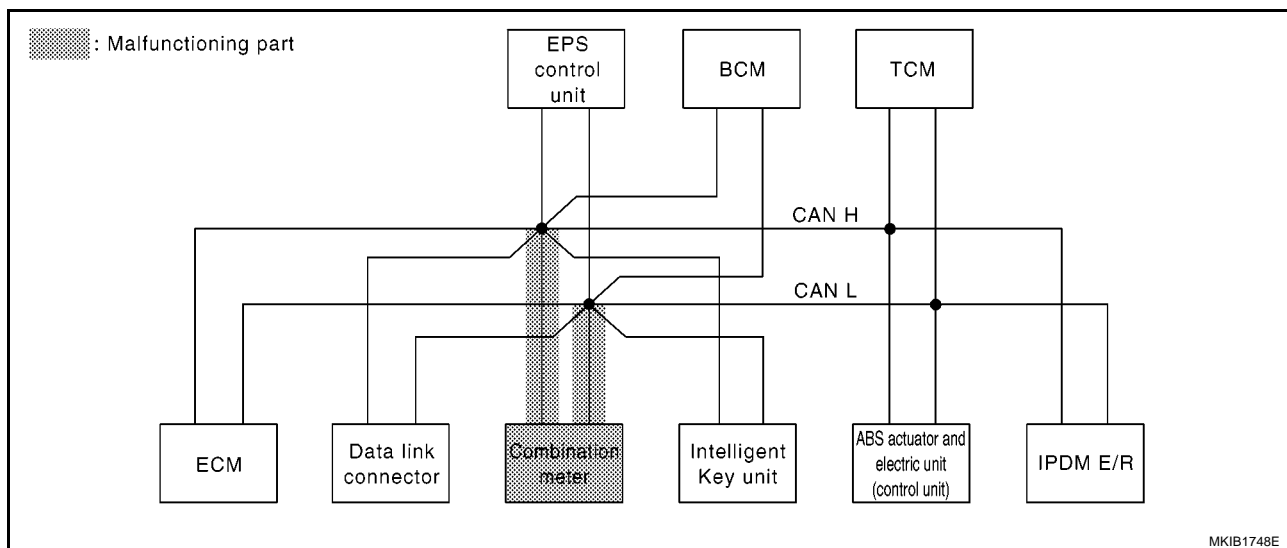
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

PKIC9259E

PKIC9259E



MKIB1748E

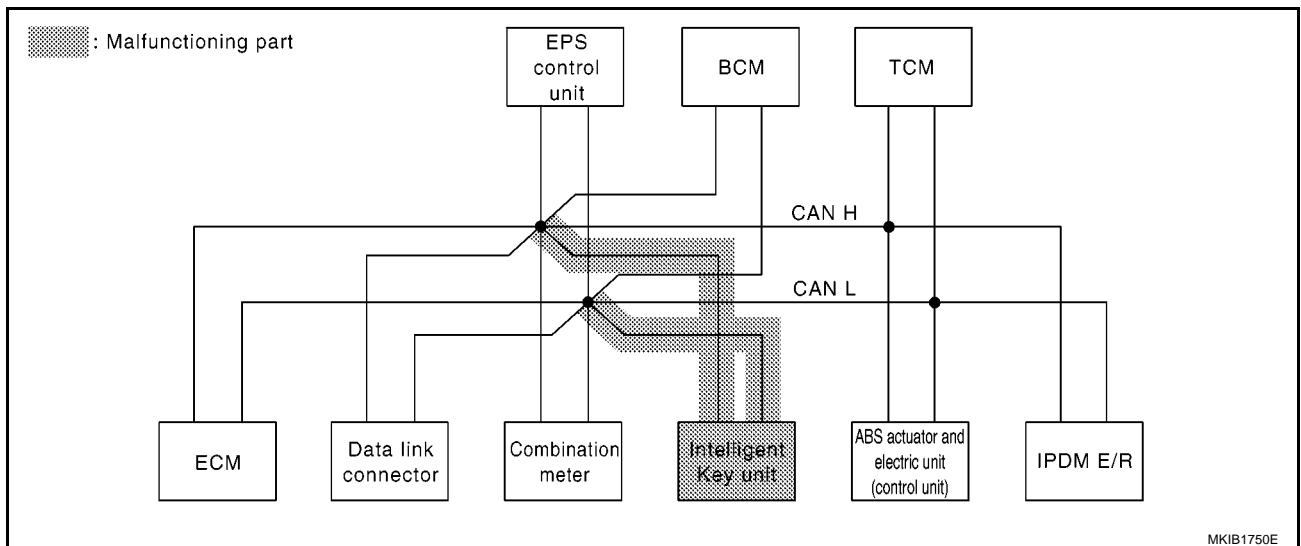
Case 5

Check Intelligent Key unit circuit. Refer to [LAN-184, "Intelligent Key Unit Circuit Inspection"](#) .

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

PKIC9260E

PKIC9260E



MKIB1750E

CAN SYSTEM (TYPE 6)

[CAN]

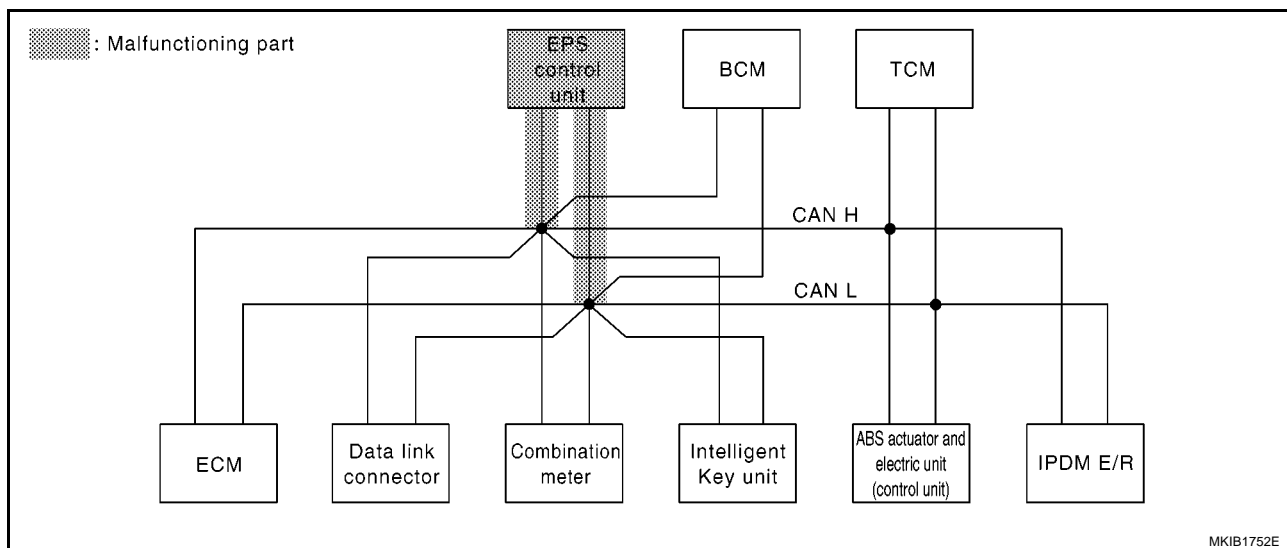
Case 6

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#) .

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

PKIC9261E

PKIC9261E



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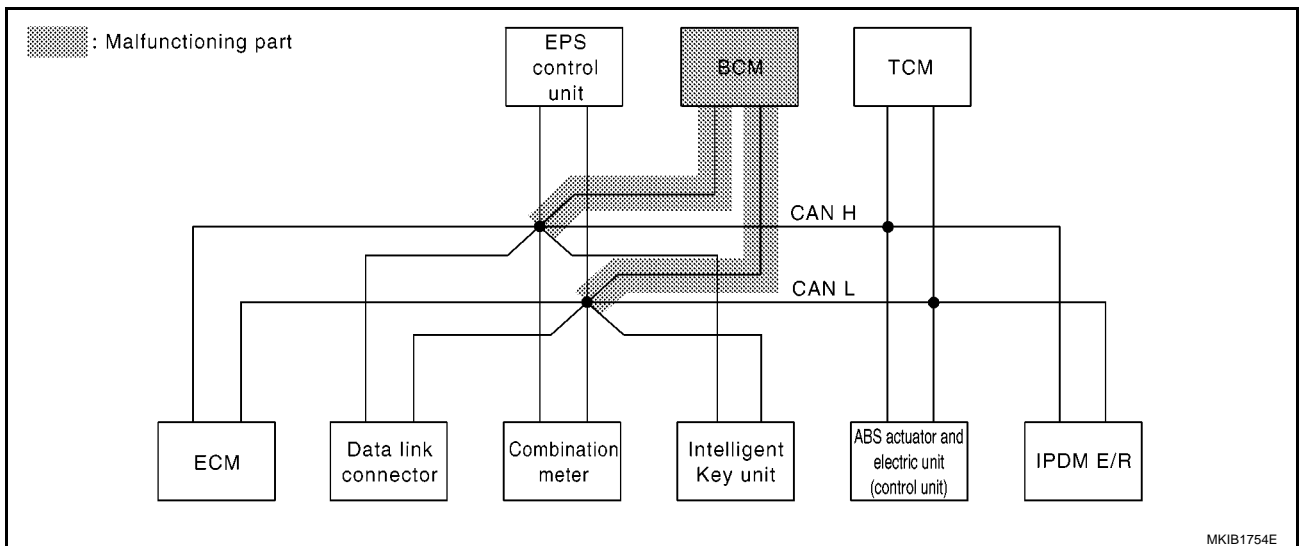
Case 7

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#).

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

PKIC9262E

PKIC9262E



MKIB1754E

CAN SYSTEM (TYPE 6)

[CAN]

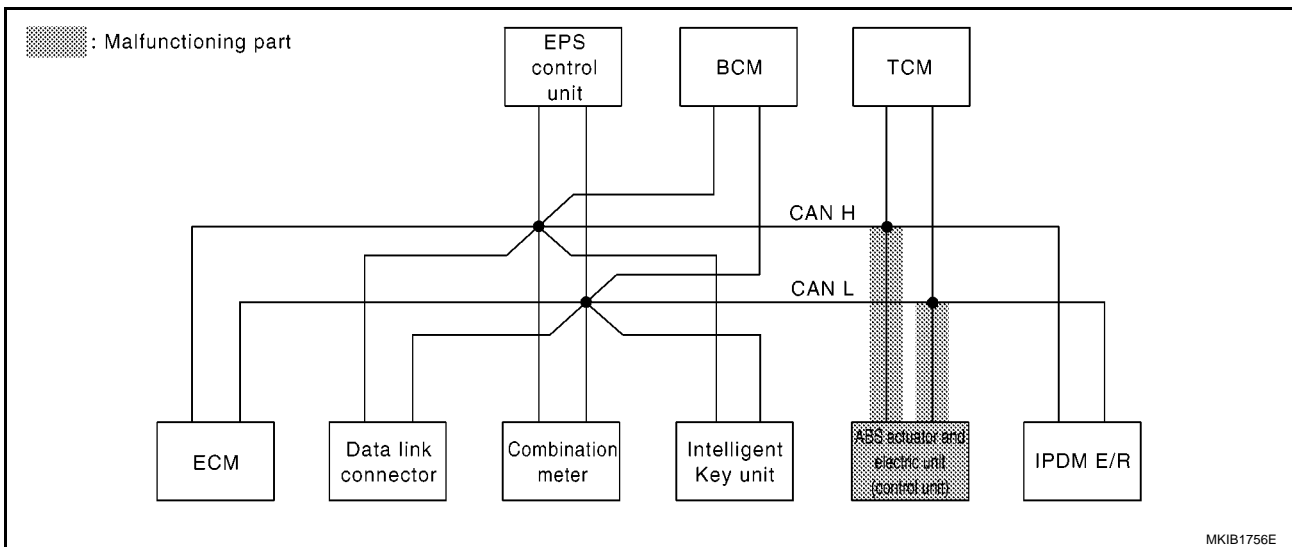
Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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

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PKIC9263E



MKIB1756E

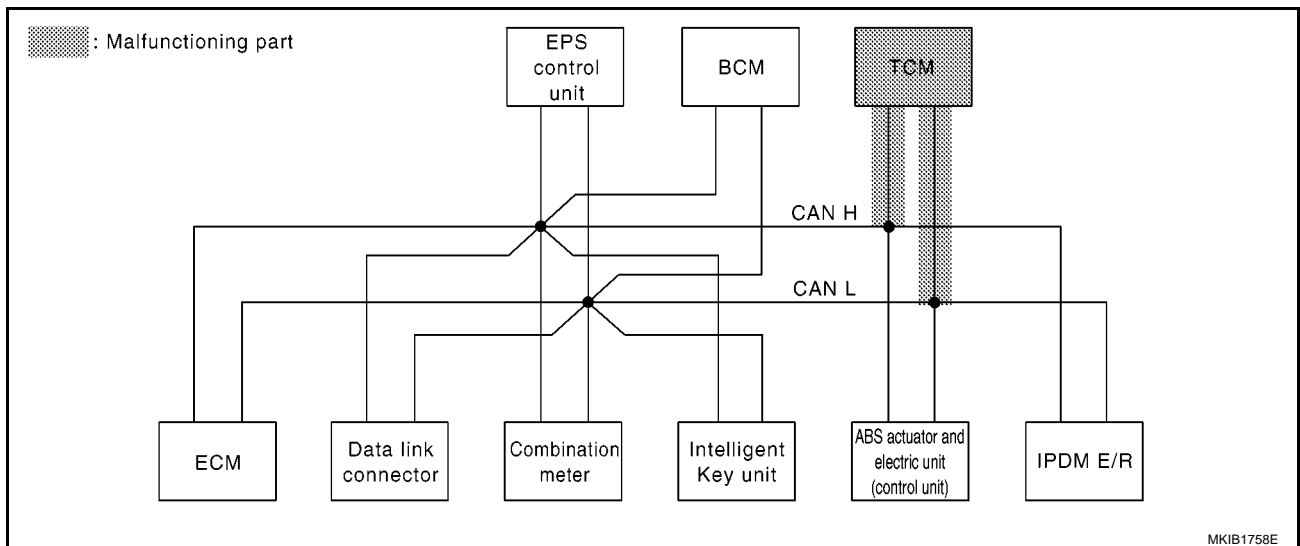
Case 9

Check TCM circuit. Refer to [LAN-187, "TCM Circuit Inspection"](#) .

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

PKIC9264E

PKIC9264E



MKIB1758E

CAN SYSTEM (TYPE 6)

[CAN]

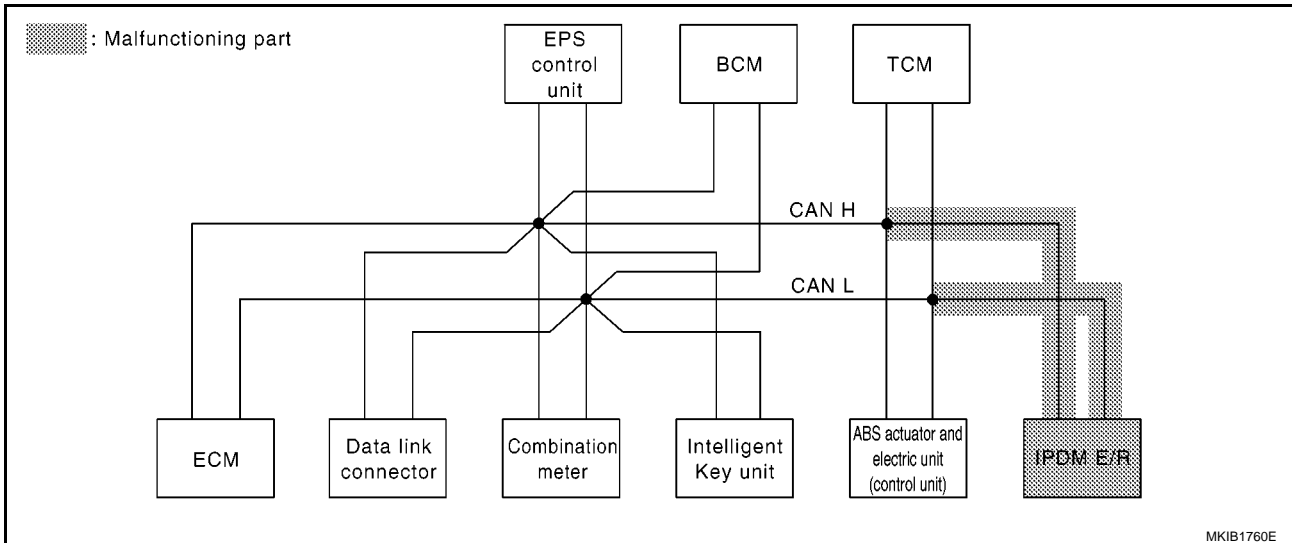
Case 10

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

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

PKIC9265E

PKIC9265E



MKIB1760E

CAN SYSTEM (TYPE 6)

[CAN]

Case 11

Check CAN communication circuit. Refer to [LAN-188, "CAN Communication Circuit Inspection"](#) .

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

PKIC9266F

PKIC9266E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9267E

PKIC9267E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9268E

PKIC9268E

CAN SYSTEM (TYPE 7)

PFP:23710

Component Parts and Harness Connector Location

BKS001JI

Refer to LAN-21, "Component Parts and Harness Connector Location" .

Wiring Diagram — CAN —

BKS001JK

Refer to LAN-23, "Wiring Diagram — CAN —" .

Check Sheet

BKS001LK

Refer to LAN-124, "Check Sheet" .

A

B

C

D

E

F

G

H

I

J

LAN

L

M

CAN SYSTEM (TYPE 7)

[CAN]

Check Sheet

BKS001L8

NOTE:

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

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

PKIC9200E

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Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

LAN

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

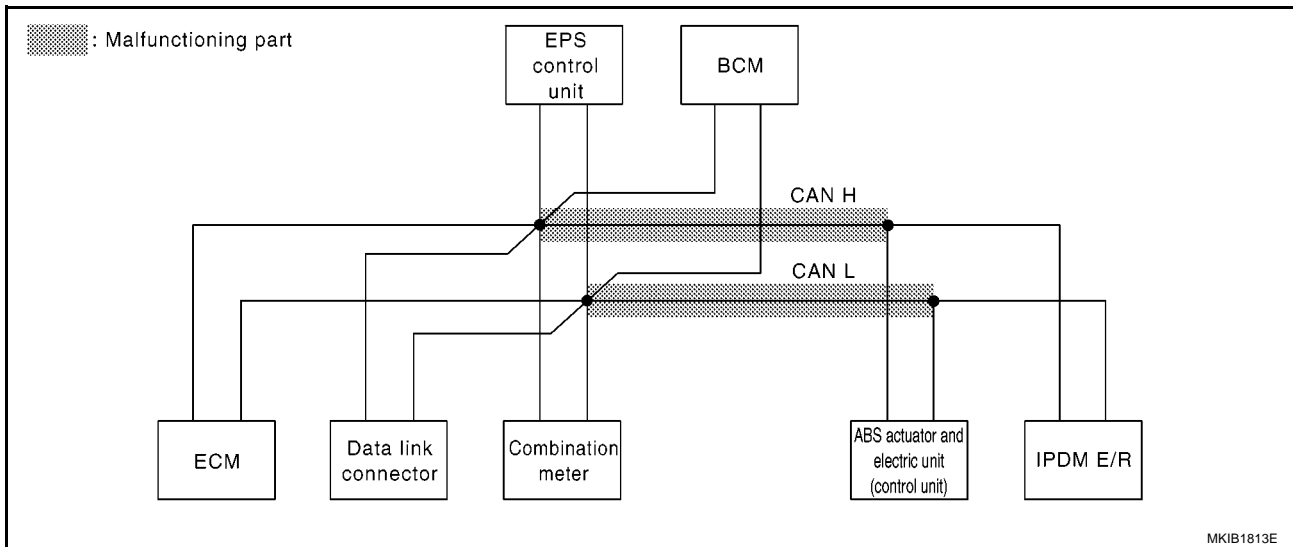
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

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

PKIC9321E

PKIC9321E



MKIB1813E

CAN SYSTEM (TYPE 7)

[CAN]

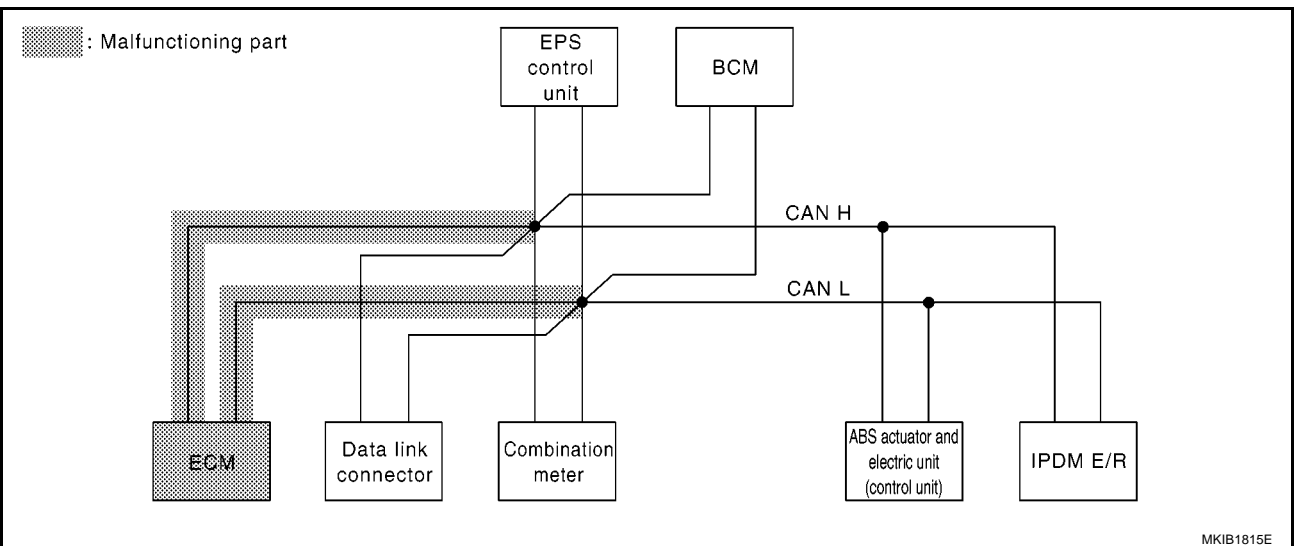
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#) .

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

PKIC9322E

PKIC9322E



MKIB1815E

CAN SYSTEM (TYPE 7)

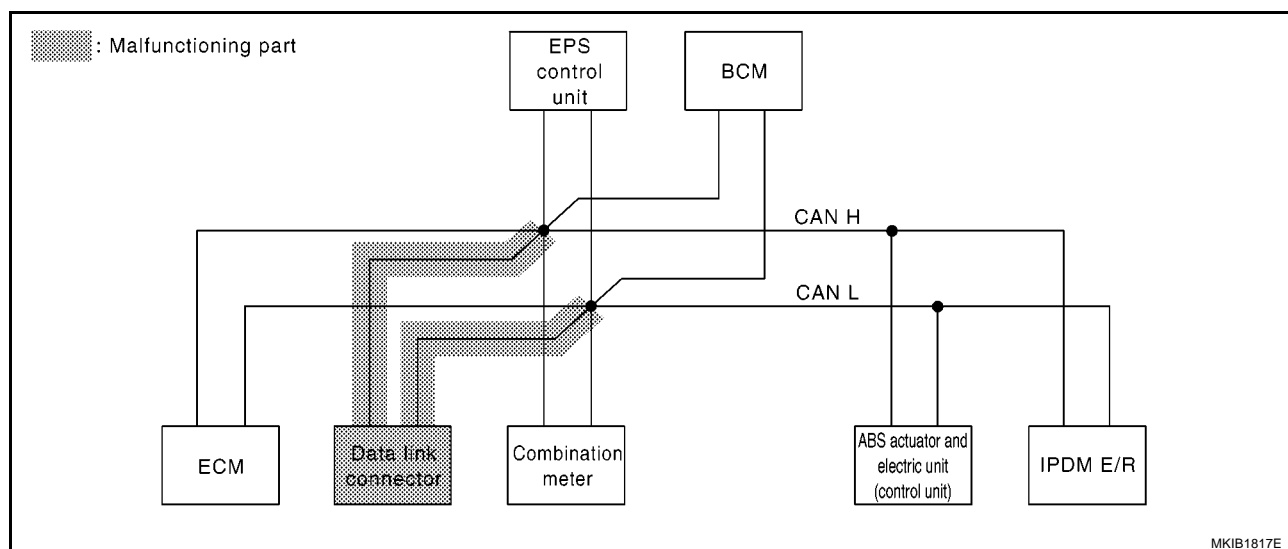
[CAN]

Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector and CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	METER /M&A	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	No indication	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	No indication	NG	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
PKIC9323E										

PKIC9323E



MKIB1817E

CAN SYSTEM (TYPE 7)

[CAN]

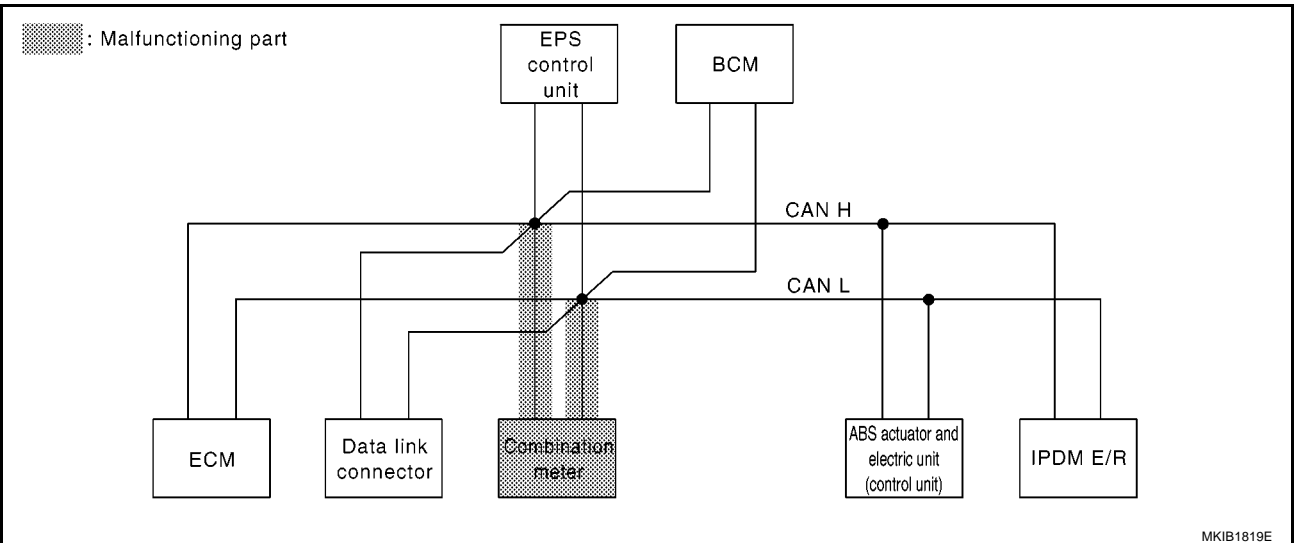
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

PKIC9324E

PKIC9324E



MKIB1819E

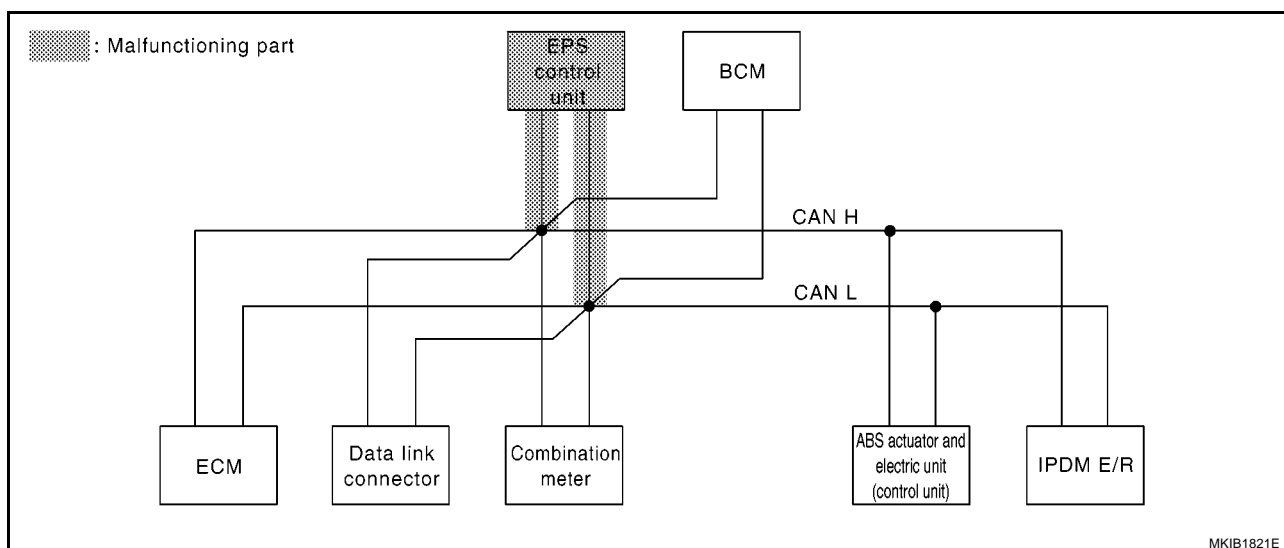
Case 5

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#) .

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

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PKIC9325E



MKIB1821E

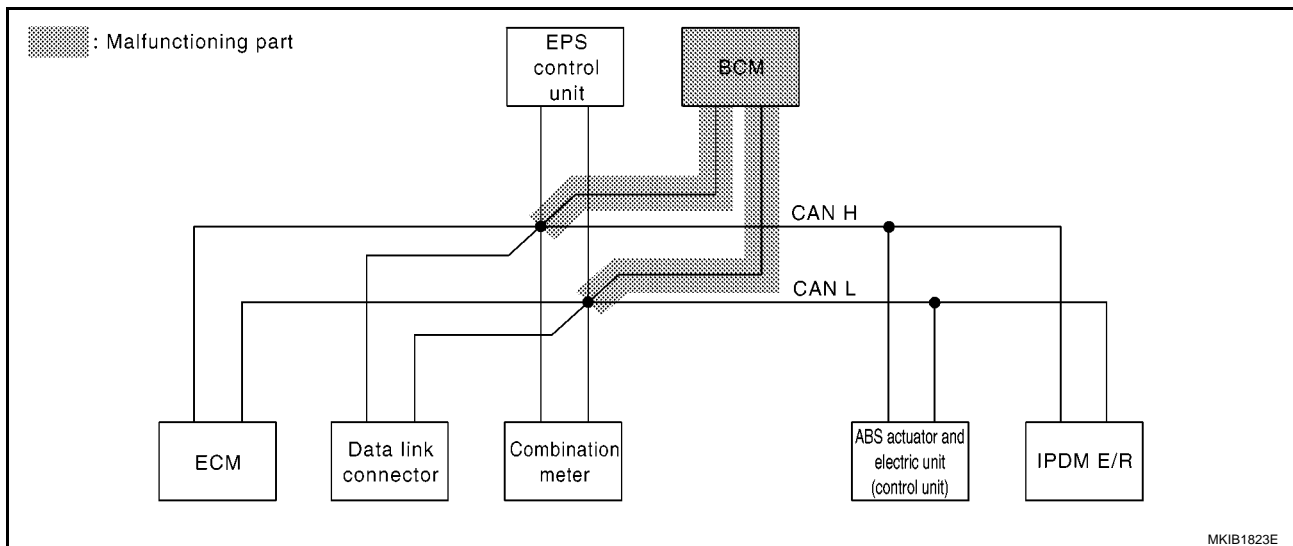
Case 6

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#).

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

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MKIB1823E

CAN SYSTEM (TYPE 7)

[CAN]

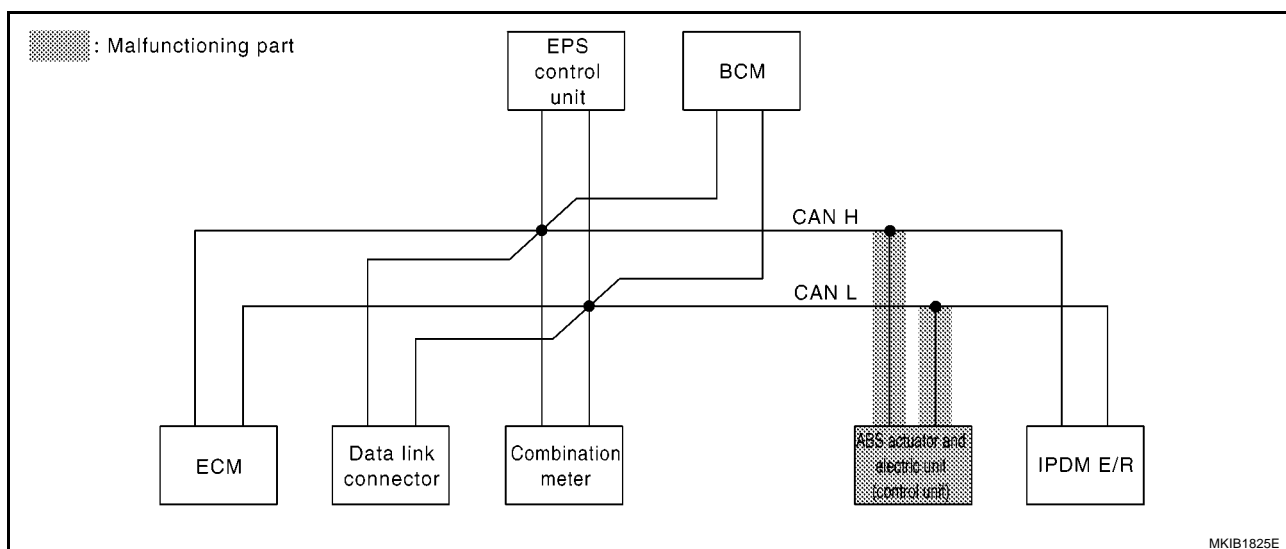
Case 7

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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

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PKIC9327E



MKIB1825E

CAN SYSTEM (TYPE 7)

[CAN]

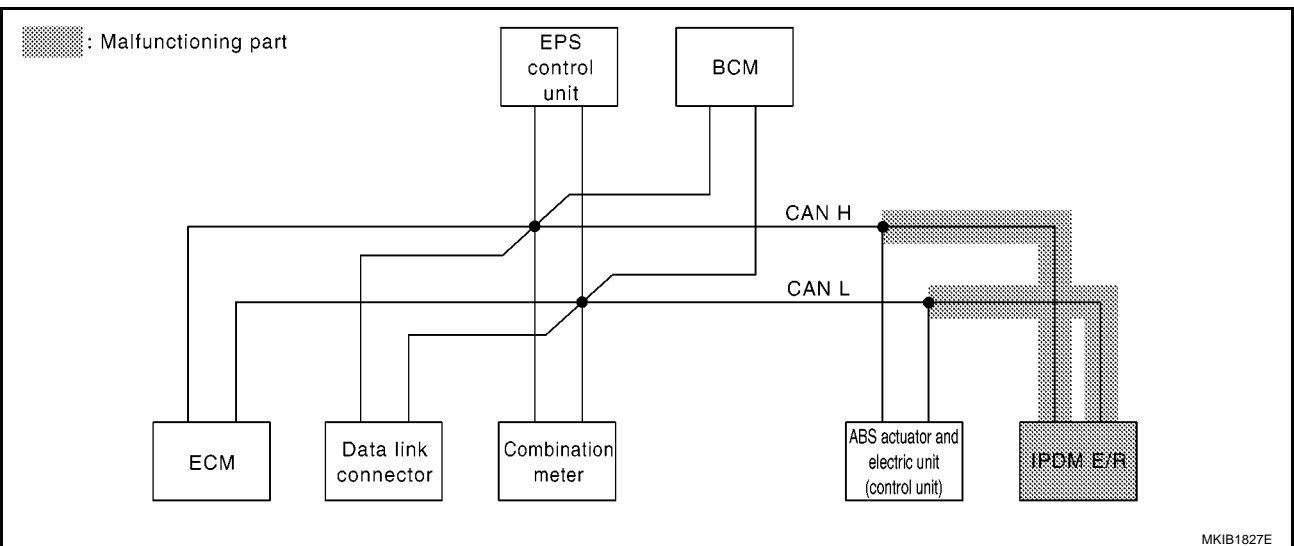
Case 8

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

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

PKIC9328E

PKIC9328E



MKIB1827E

CAN SYSTEM (TYPE 7)

[CAN]

Case 9

Check CAN communication circuit. Refer to [LAN-182, "Data Link Connector and CAN Communication Circuit Inspection"](#).

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

PKIC9329E

PKIC9329E

Case 10

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#).

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

PKIC9330E

PKIC9330E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9331E

PKIC9331E

CAN SYSTEM (TYPE 8)

PFP:23710

Component Parts and Harness Connector Location

BKS001JM

Refer to [LAN-21, "Component Parts and Harness Connector Location"](#) .

Wiring Diagram — CAN —

BKS001JO

Refer to [LAN-23, "Wiring Diagram — CAN —"](#) .

Check Sheet

BKS001LL

Refer to [LAN-137, "Check Sheet"](#) .

CAN SYSTEM (TYPE 8)

[CAN]

Check Sheet

BKS001L9

NOTE:

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

A
B
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M

Check sheet table

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

PKIC9201E

CAN SYSTEM (TYPE 8)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC9146E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

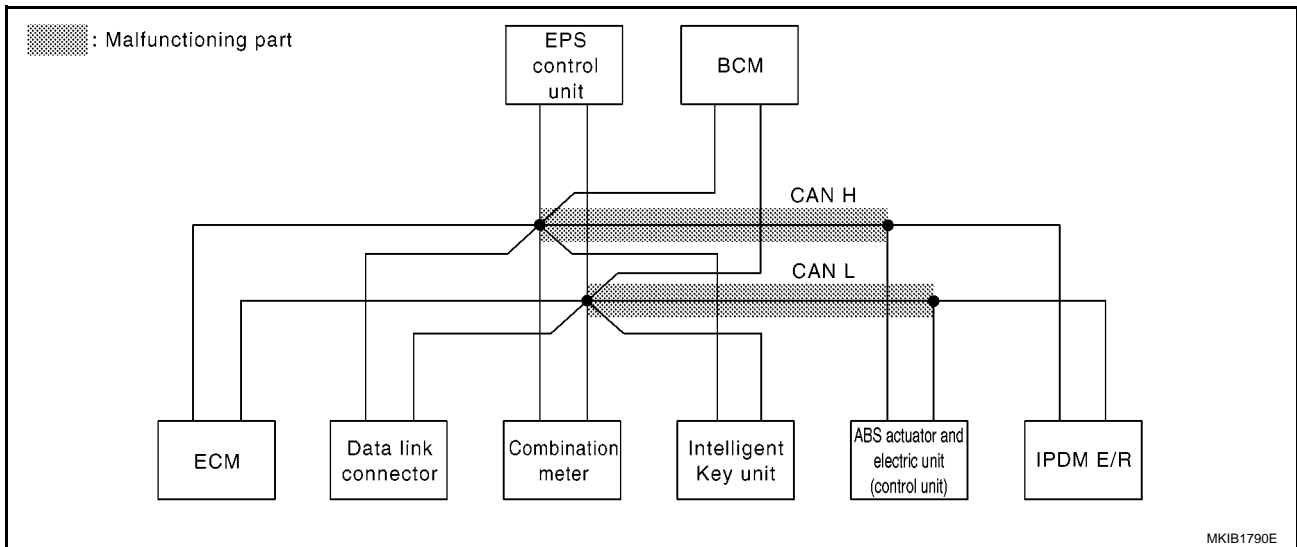
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179](#), "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

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

PKIC9332E

PKIC9332E



MKIB1790E

CAN SYSTEM (TYPE 8)

[CAN]

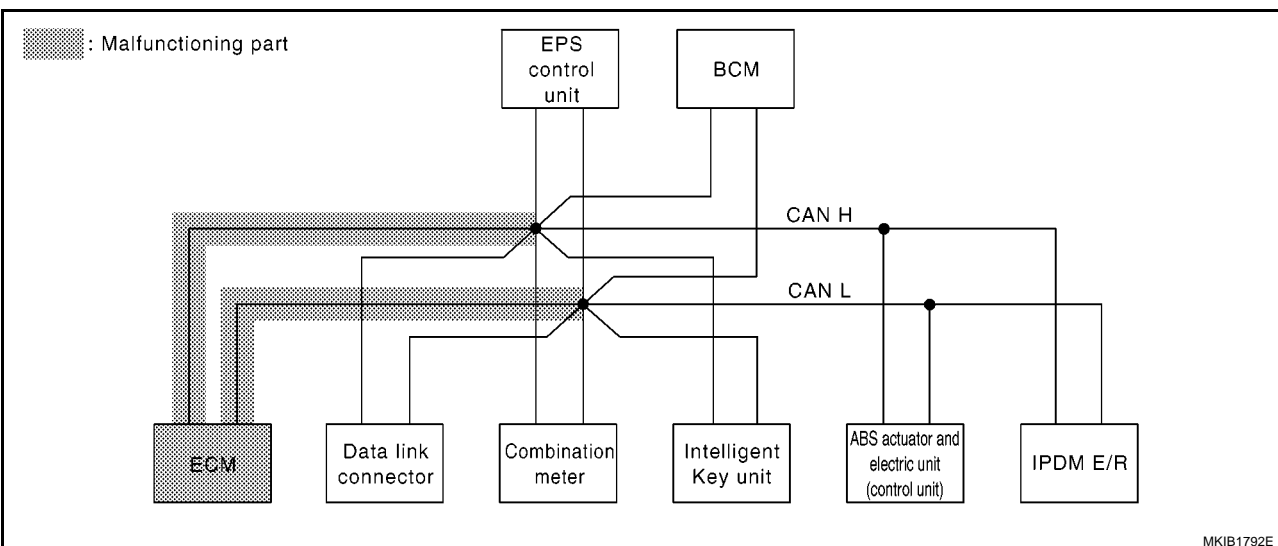
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#) .

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

PKIC9333E

PKIC9333E



MKIB1792E

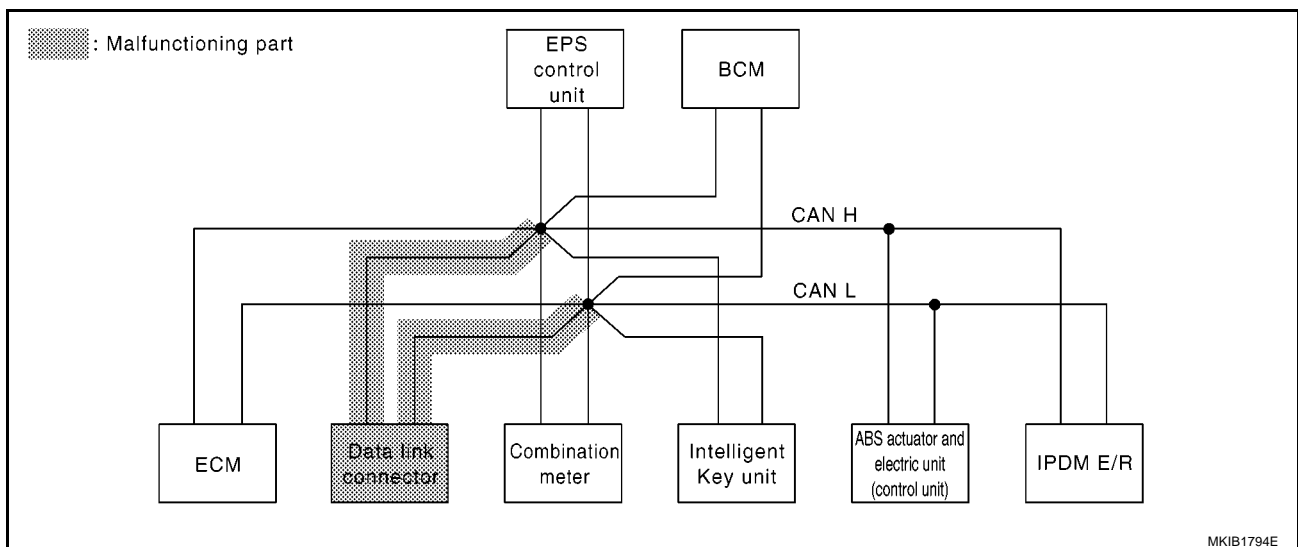
Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector and CAN Communication Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	METER /M&A	I-KEY	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	No <input checked="" type="checkbox"/> indication	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No <input checked="" type="checkbox"/> indication	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
EPS	No <input checked="" type="checkbox"/> indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No <input checked="" type="checkbox"/> indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	No <input checked="" type="checkbox"/> indication	NG	—	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No <input checked="" type="checkbox"/> indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC9334E

PKIC9334E



MKIB1794E

CAN SYSTEM (TYPE 8)

[CAN]

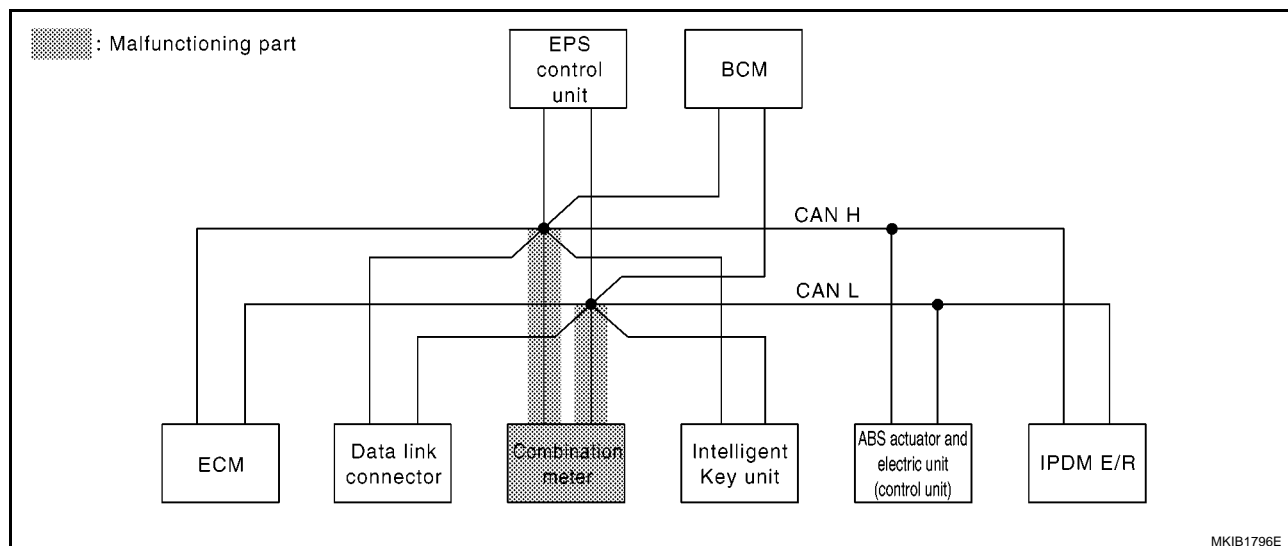
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

PKIC9335E

PKIC9335E



MKIB1796E

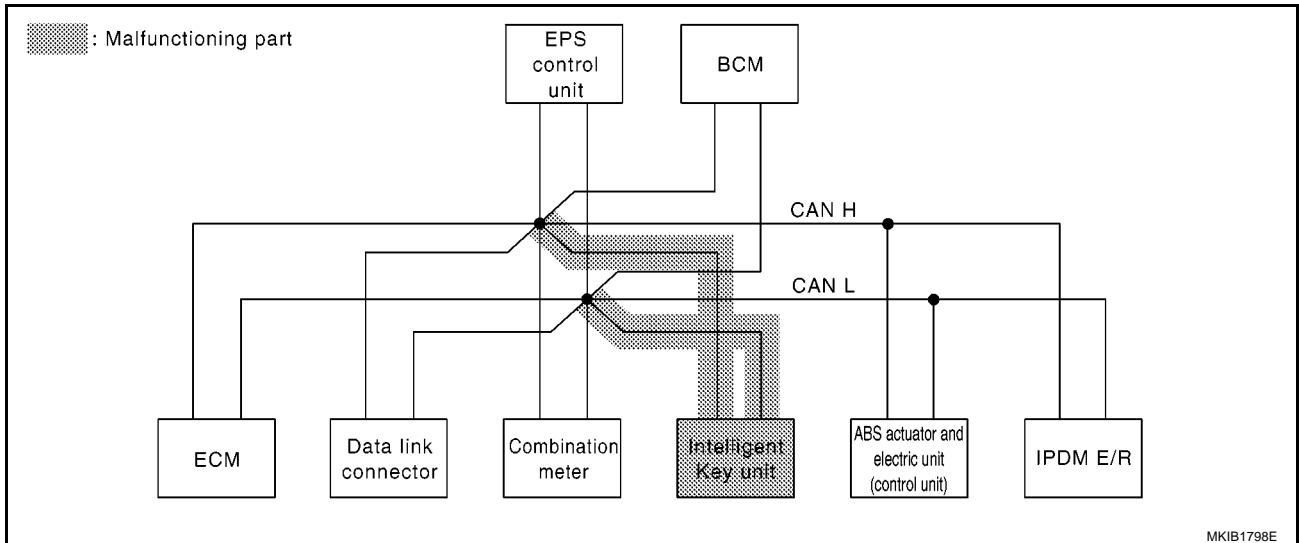
Case 5

Check Intelligent Key unit circuit. Refer to [LAN-184, "Intelligent Key Unit Circuit Inspection"](#) .

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

PKIC9336E

PKIC9336E



MKIB1798E

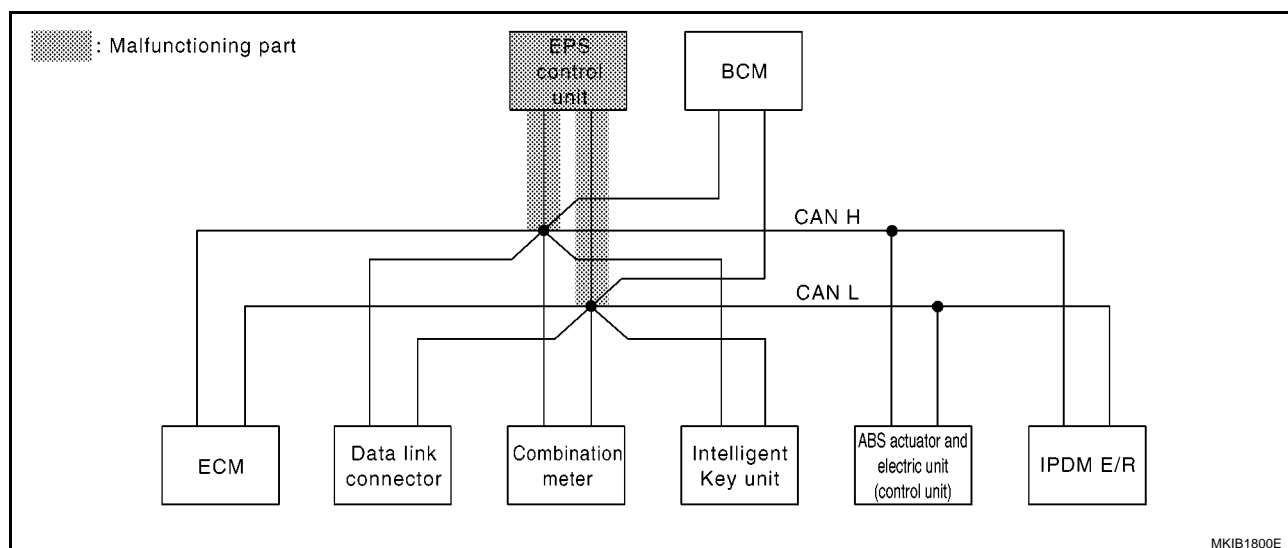
Case 6

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#) .

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

PKIC9337E

PKIC9337E



MKIB1800E

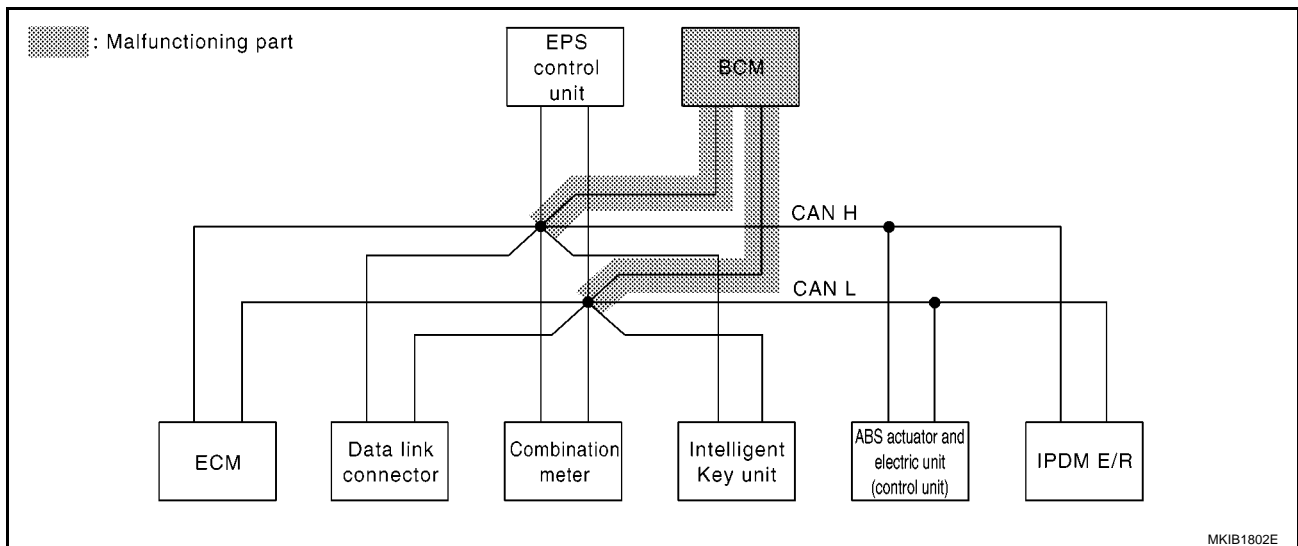
Case 7

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#) .

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

PKIC9338E

PKIC9338E



MKIB1802E

CAN SYSTEM (TYPE 8)

[CAN]

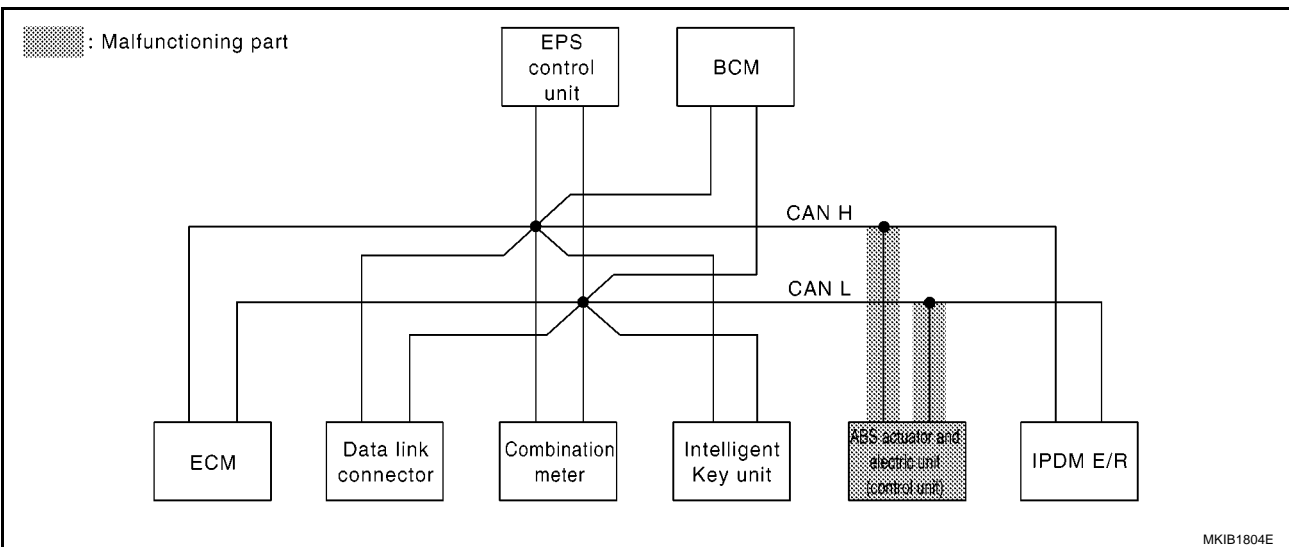
Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

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

PKIC9339E

PKIC9339E



MKIB1804E

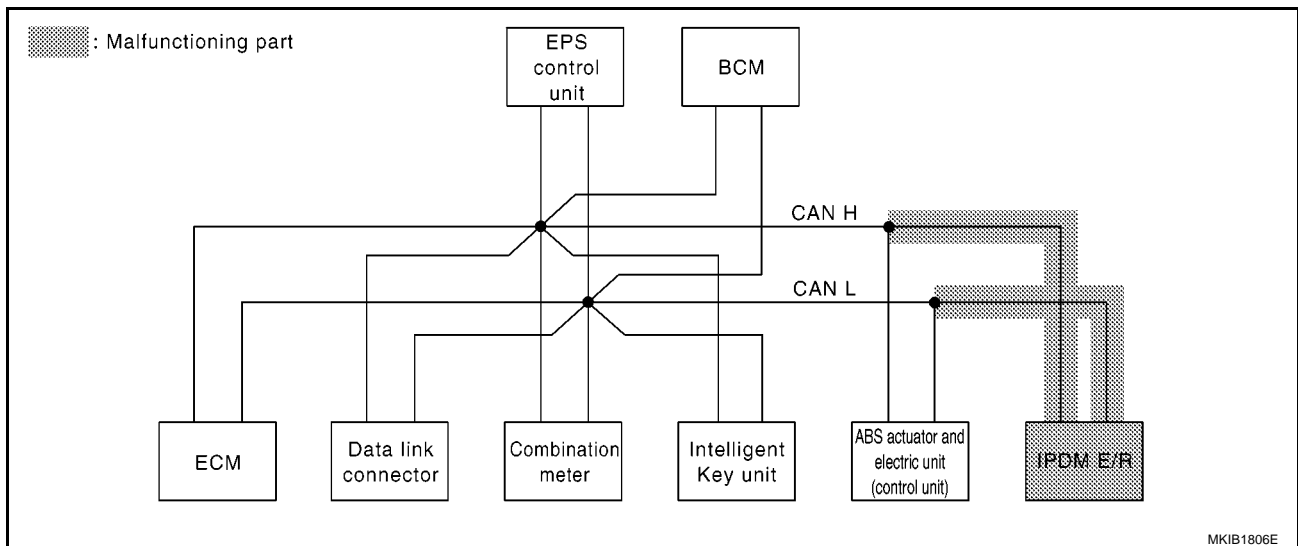
Case 9

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

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

PKIC9340E

PKIC9340E



MKIB1806E

CAN SYSTEM (TYPE 8)

[CAN]

Case 10

Check CAN communication circuit. Refer to [LAN-182, "Data Link Connector and CAN Communication Circuit Inspection"](#).

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

PKIC9341E

PKIC9341E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#).

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

PKIC9342E

PKIC9342E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9343E

PKIC9343E

CAN SYSTEM (TYPE 9)

PFP:23710

Component Parts and Harness Connector Location

BKS001JY

Refer to [LAN-21, "Component Parts and Harness Connector Location"](#) .

Wiring Diagram — CAN —

BKS001K0

Refer to [LAN-23, "Wiring Diagram — CAN —"](#) .

Check Sheet

BKS001LM

Refer to [LAN-151, "Check Sheet"](#) .

CAN SYSTEM (TYPE 9)

[CAN]

Check Sheet

BKS001L5

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

PKIC9202E

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Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

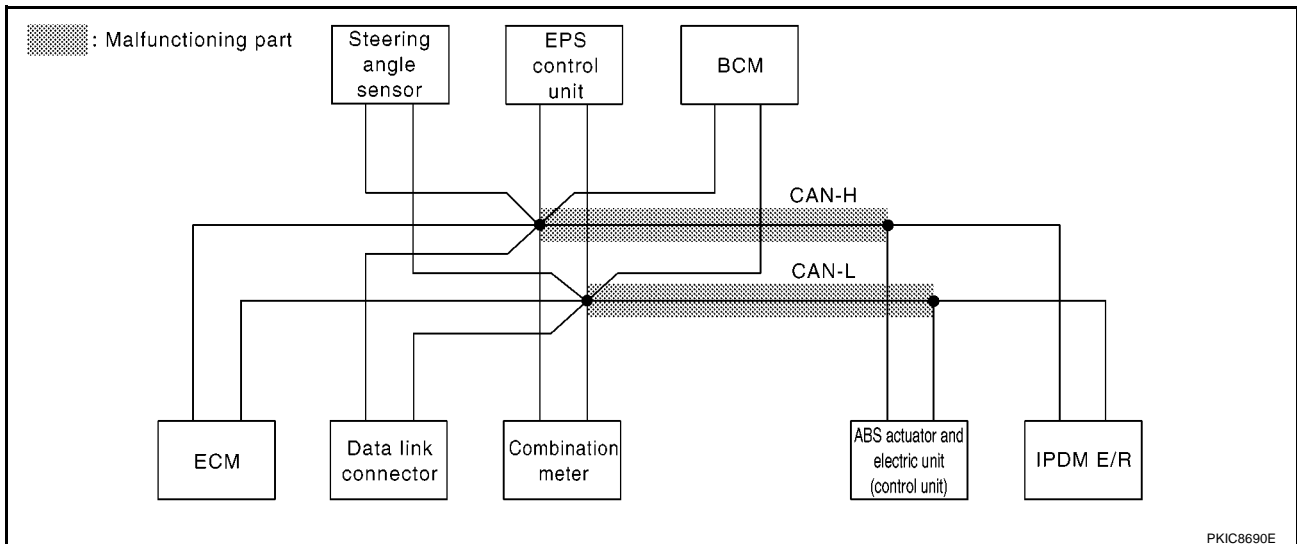
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179](#), "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

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

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PKIC9344E



PKIC8690E

CAN SYSTEM (TYPE 9)

[CAN]

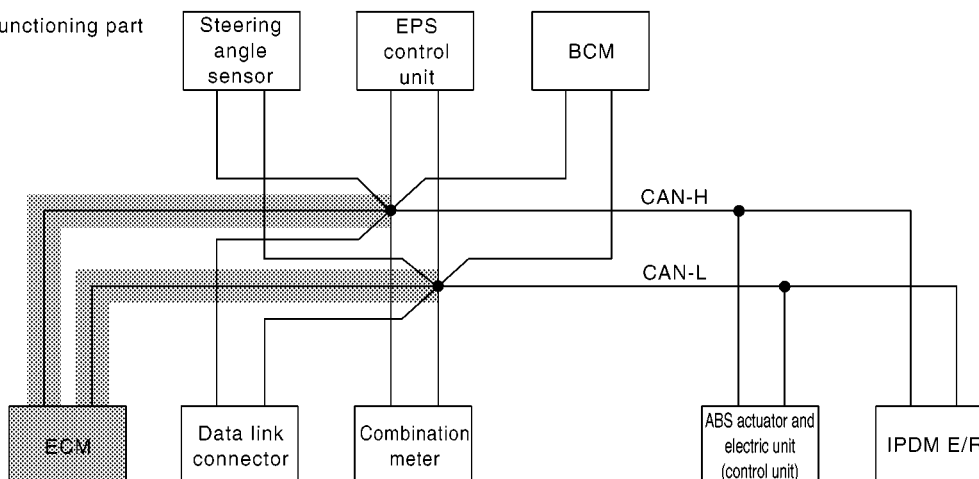
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#) .

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

PKIC9345E

 : Malfunctioning part



PKIC8691E

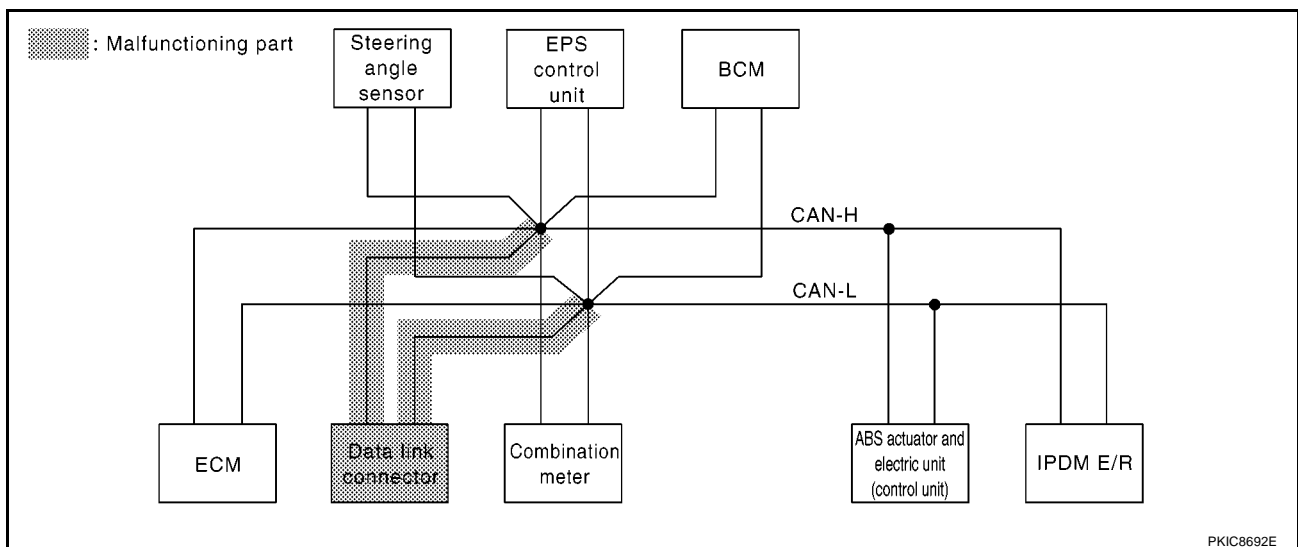
Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector and CAN Communication Circuit Inspection"](#).

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

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PKIC9346E



PKIC8692E

CAN SYSTEM (TYPE 9)

[CAN]

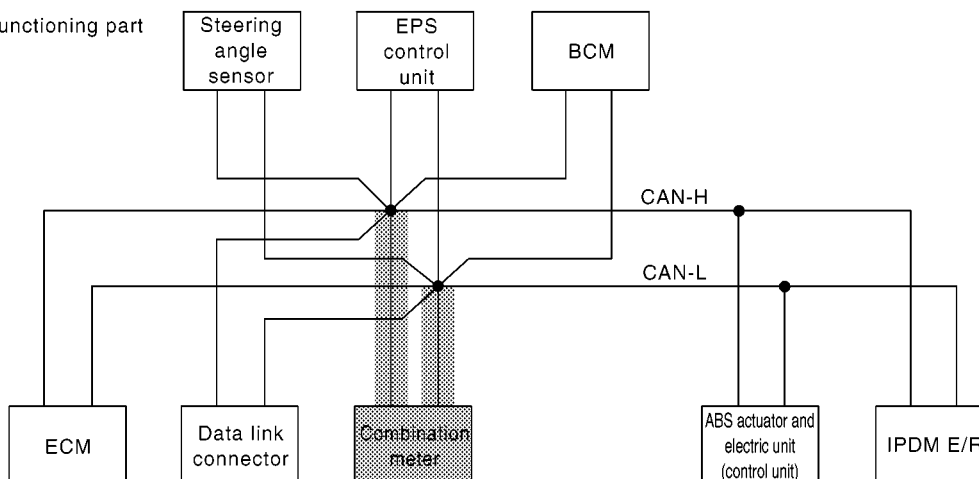
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

PKIC9347E

■ : Malfunctioning part



PKIC8693E

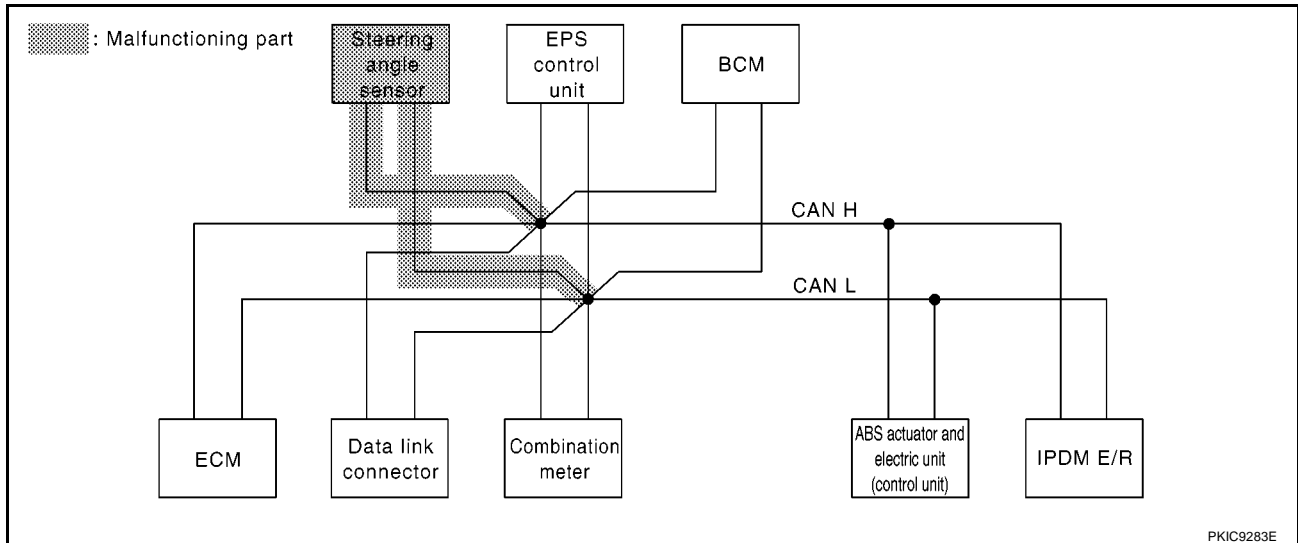
Case 5

Check steering angle sensor circuit. Refer to [LAN-185, "Steering Angle Sensor Circuit Inspection"](#) .

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

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PKIC9348E



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CAN SYSTEM (TYPE 9)

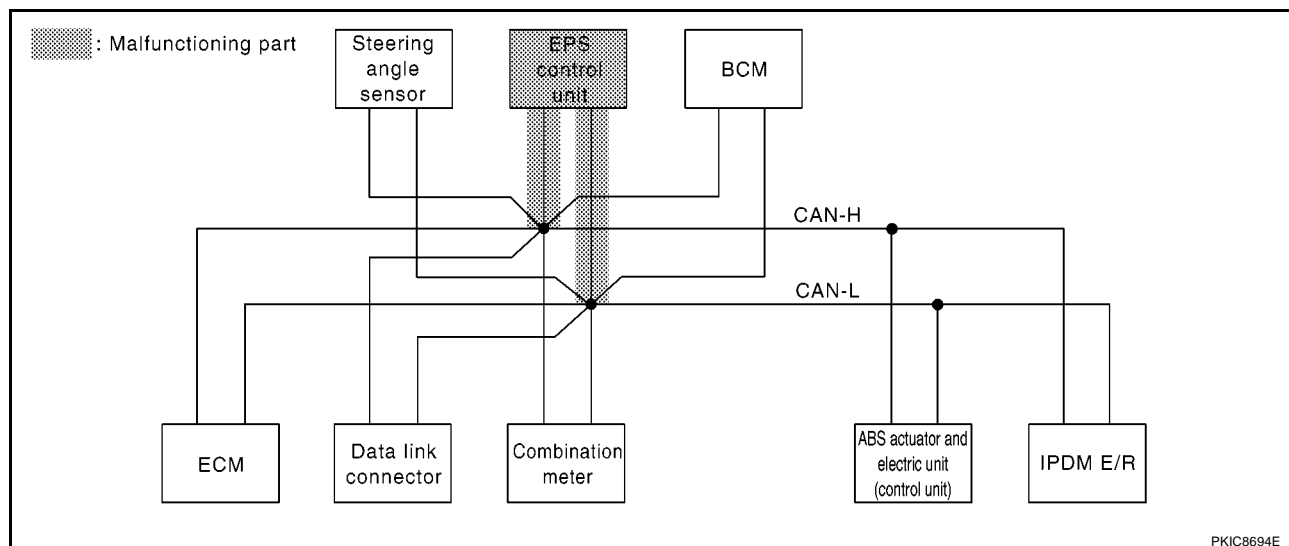
[CAN]

Case 6

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#) .

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

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PKIC8694E

CAN SYSTEM (TYPE 9)

[CAN]

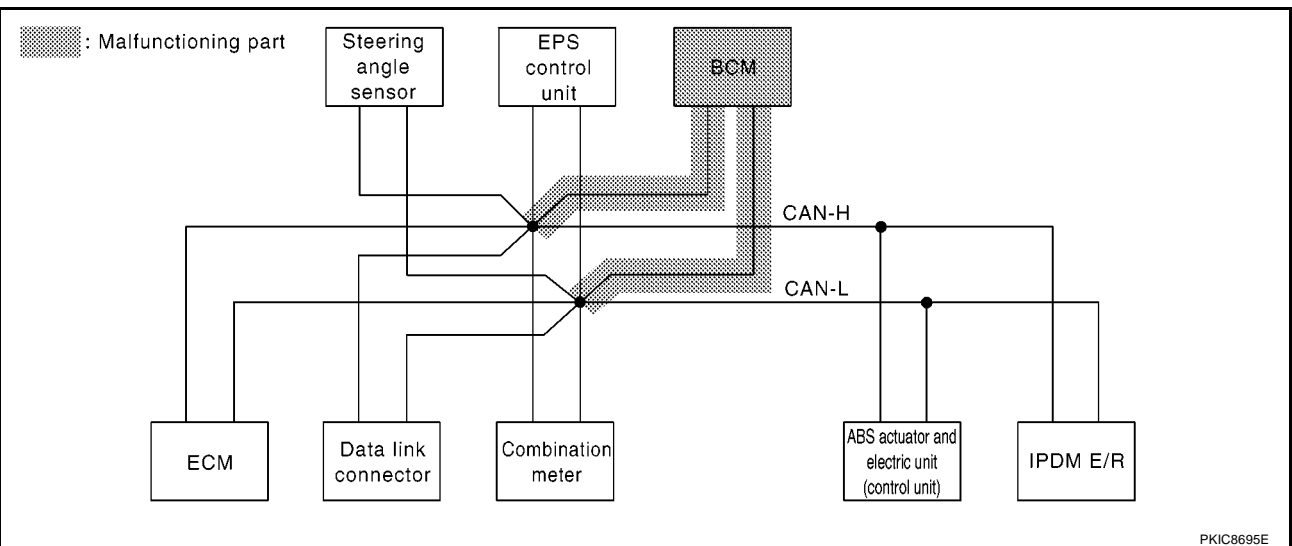
Case 7

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#) .

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

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PKIC9350E



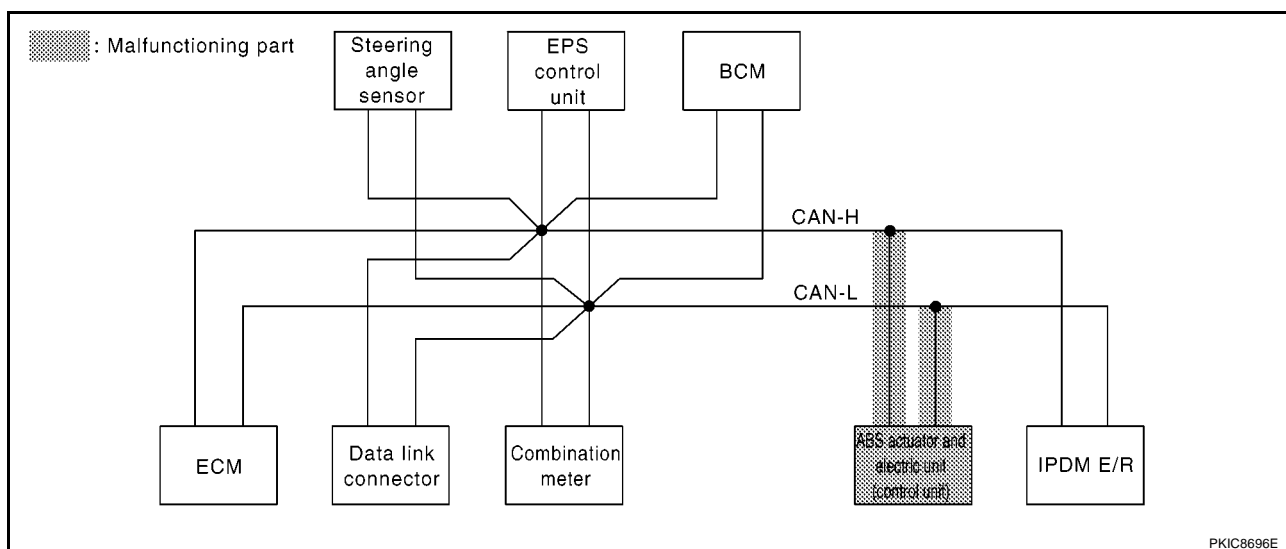
PKIC8695E

Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

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

PKIC9351E



PKIC8696E

CAN SYSTEM (TYPE 9)

[CAN]

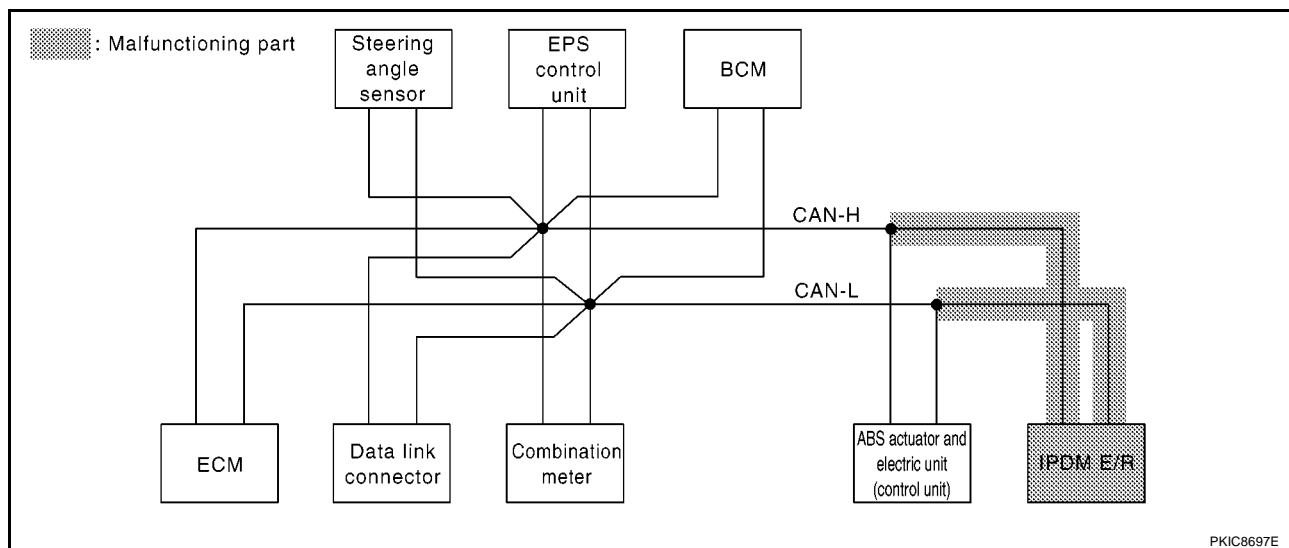
Case 9

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	METER /M&A	STRG	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	No indication	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001) ✓
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	✓	CAN COMM CIRCUIT (U1000) ✓	—
ABS	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	✓ No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—

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PKIC9352E



PKIC8697E

CAN SYSTEM (TYPE 9)

[CAN]

Case 10

Check CAN communication circuit. Refer to [LAN-182, "Data Link Connector and CAN Communication Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	METER /M&A	STRG	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	No indication ✓	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001) ✓
EPS	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
ABS	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—

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PKIC9353E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	METER /M&A	STRG	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	No indication	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN ✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001) ✓
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
ABS	No indication ✓	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

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PKIC9354E

CAN SYSTEM (TYPE 9)

[CAN]

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9355E

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

LAN

CAN SYSTEM (TYPE 10)

PFP:23710

Component Parts and Harness Connector Location

BKS001K2

Refer to [LAN-21, "Component Parts and Harness Connector Location"](#) .

Wiring Diagram — CAN —

BKS001K4

Refer to [LAN-23, "Wiring Diagram — CAN —"](#) .

Check Sheet

BKS001LN

Refer to [LAN-165, "Check Sheet"](#) .

Check Sheet

BKS001LA

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	METER /M&A	I-KEY	STRG	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	No indication	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
EPS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	No indication	—	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

CAN SYSTEM (TYPE 10)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
INTELLIGENT KEY
SELF-DIAG RESULTS

Attach copy of
EPS
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
INTELLIGENT KEY
CAN DIAG SUPPORT
MNTR

Attach copy of
EPS
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

PKIC9146E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

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

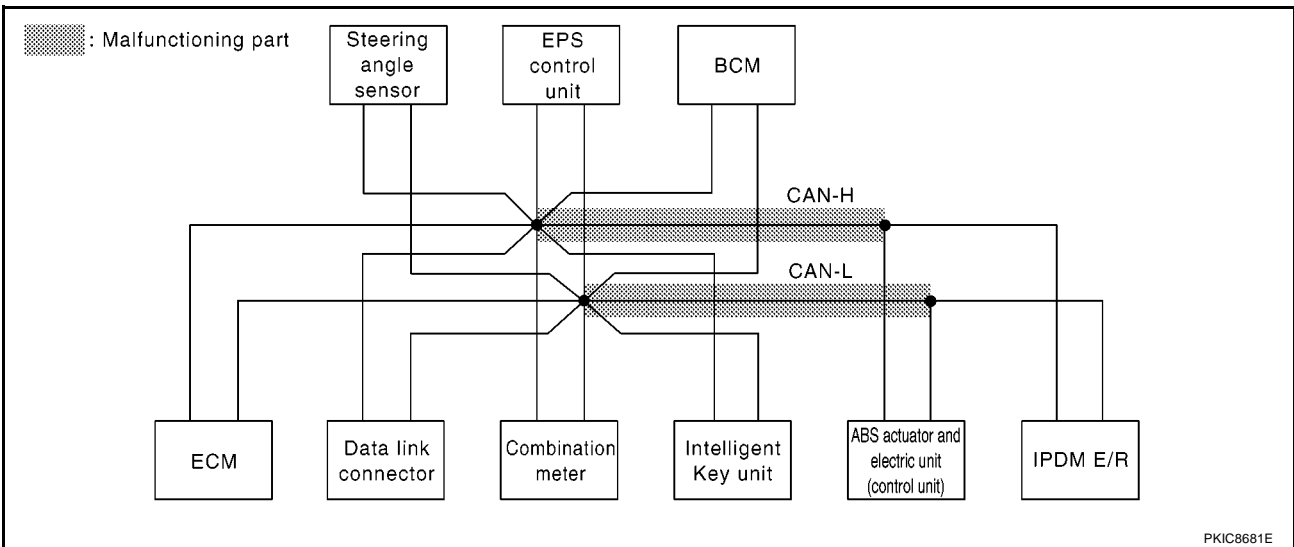
Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-179, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit \(Control Unit\) Circuit"](#).

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

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PKIC9356E



PKIC8681E

CAN SYSTEM (TYPE 10)

[CAN]

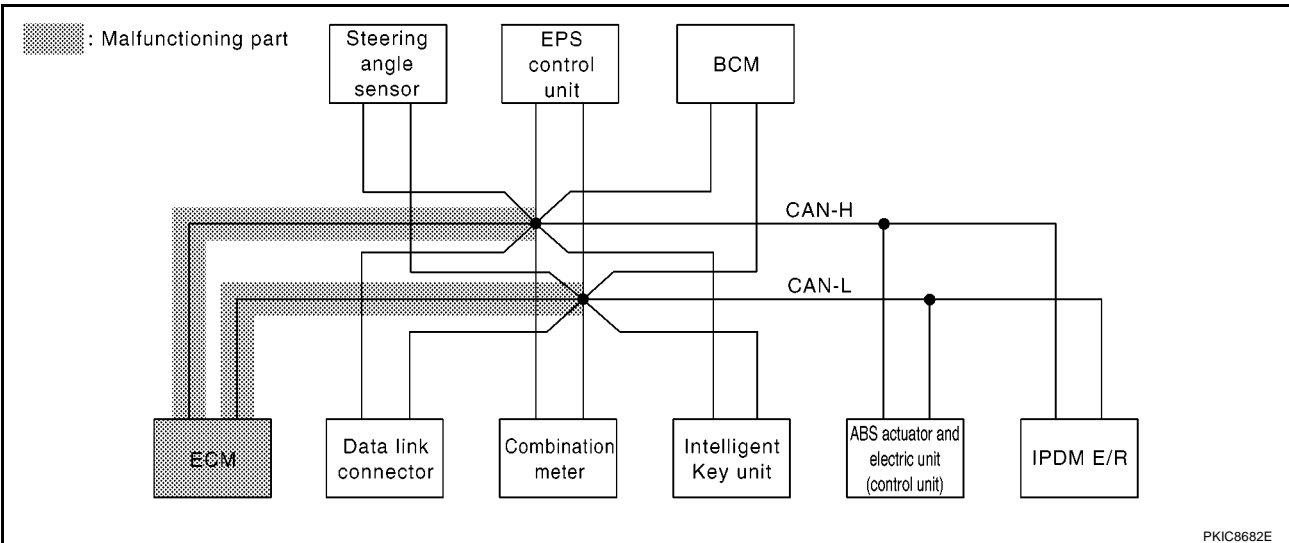
Case 2

Check ECM circuit. Refer to [LAN-180, "ECM Circuit Inspection"](#) .

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

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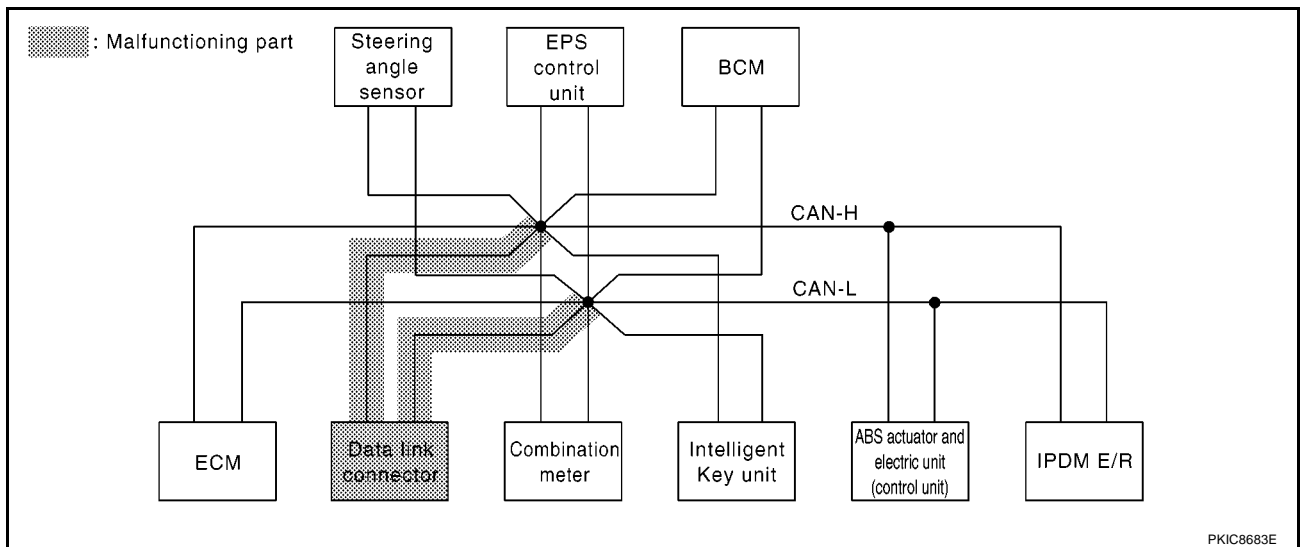
Case 3

Check data link connector circuit. Refer to [LAN-182, "Data Link Connector and CAN Communication Circuit Inspection"](#).

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

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PKIC9358E



PKIC8683E

CAN SYSTEM (TYPE 10)

[CAN]

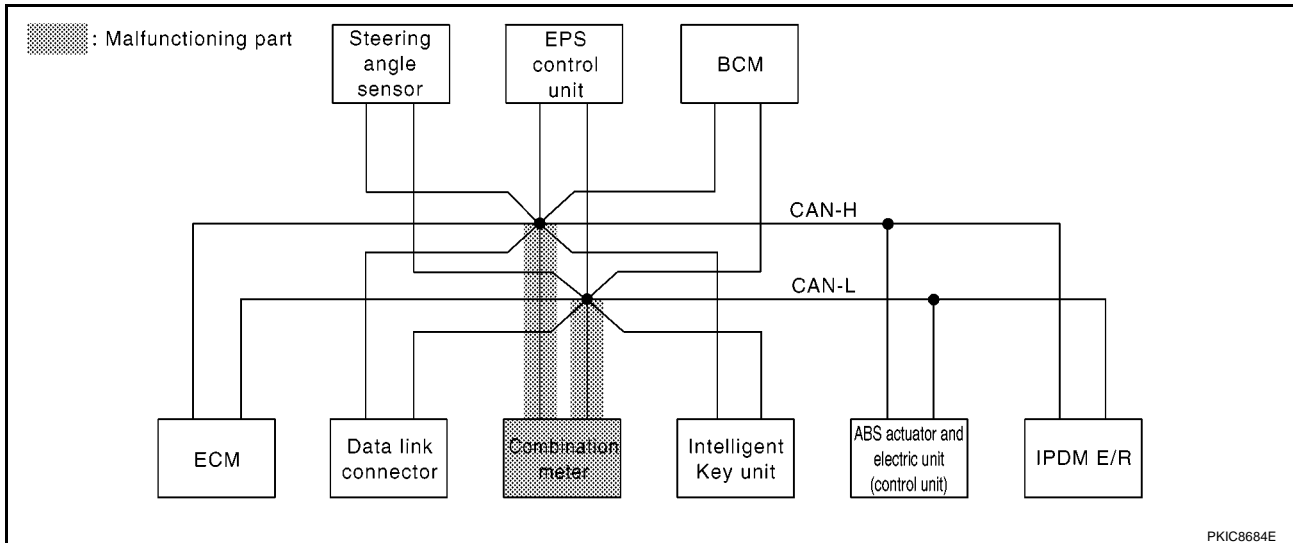
Case 4

Check combination meter circuit. Refer to [LAN-184, "Combination Meter Circuit Inspection"](#) .

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

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PKIC9359E



PKIC8684E

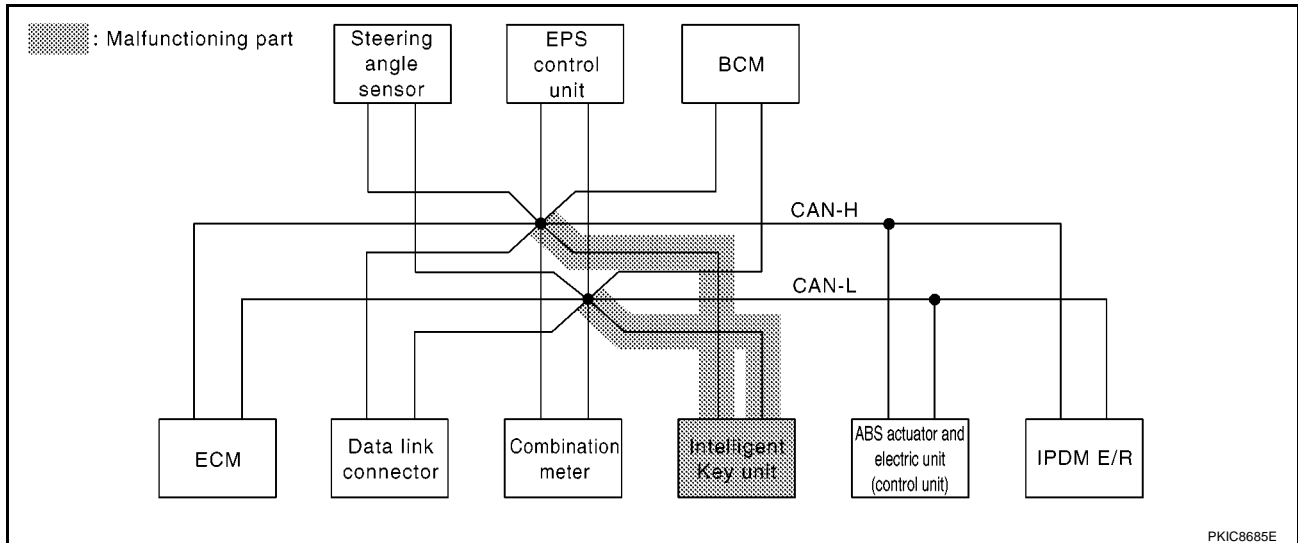
Case 5

Check Intelligent Key unit circuit. Refer to [LAN-184, "Intelligent Key Unit Circuit Inspection"](#) .

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

PKIC9360E

PKIC9360E



PKIC8685E

CAN SYSTEM (TYPE 10)

[CAN]

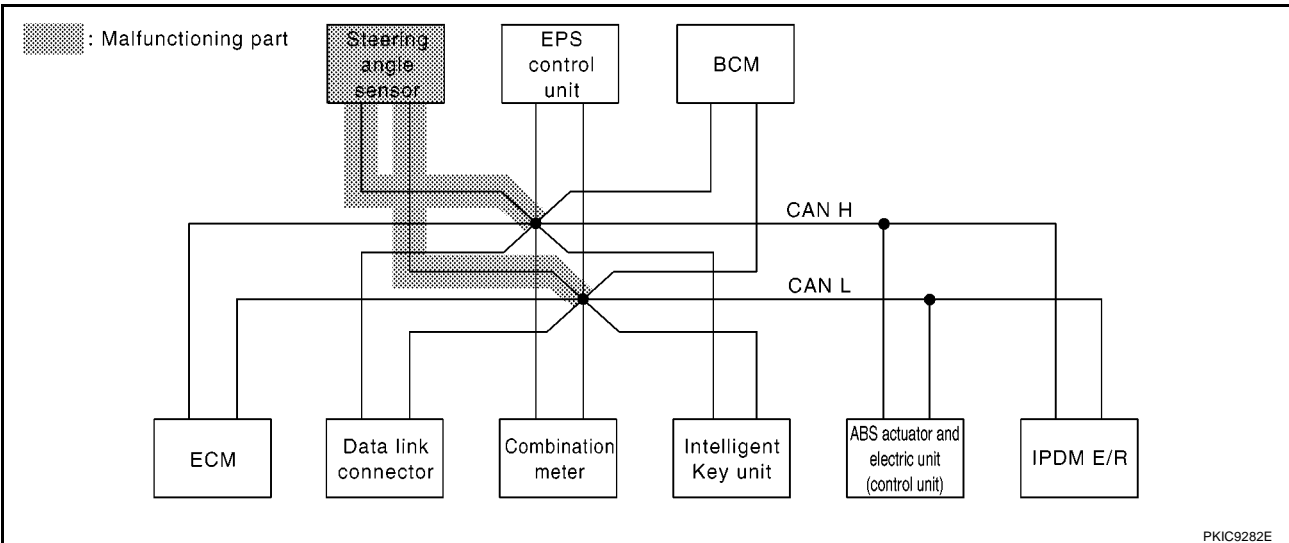
Case 6

Check steering angle sensor circuit. Refer to [LAN-185, "Steering Angle Sensor Circuit Inspection"](#) .

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

PKIC9361E

PKIC9361E



PKIC9282E

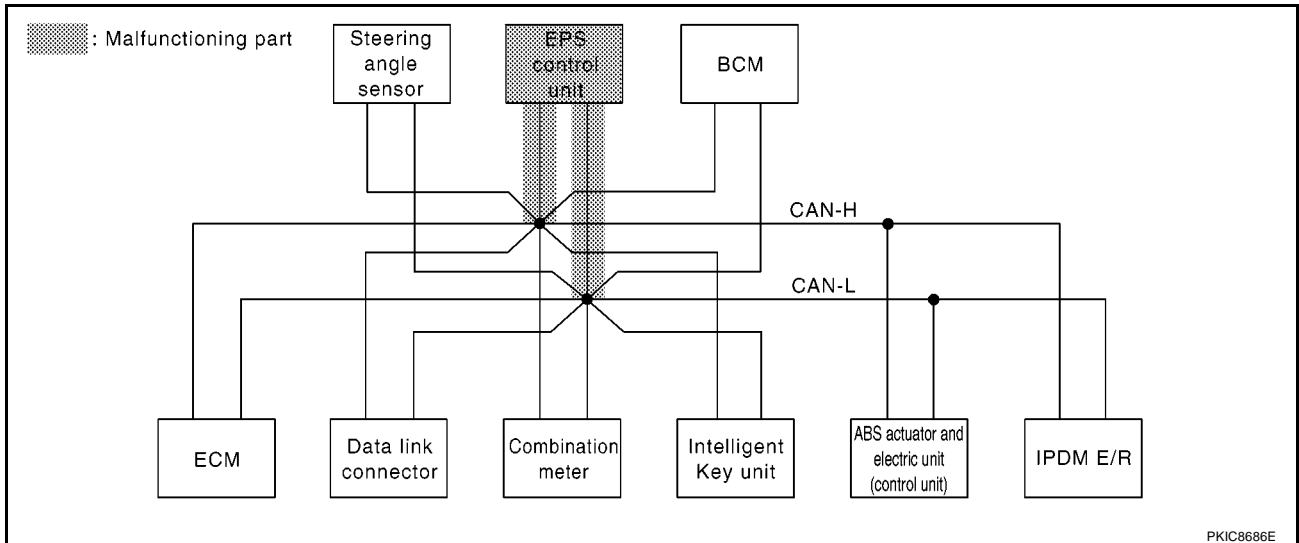
Case 7

Check EPS control unit circuit. Refer to [LAN-185, "EPS Control Unit Circuit Inspection"](#).

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

PKIC9362E

PKIC9362E



PKIC8686E

CAN SYSTEM (TYPE 10)

[CAN]

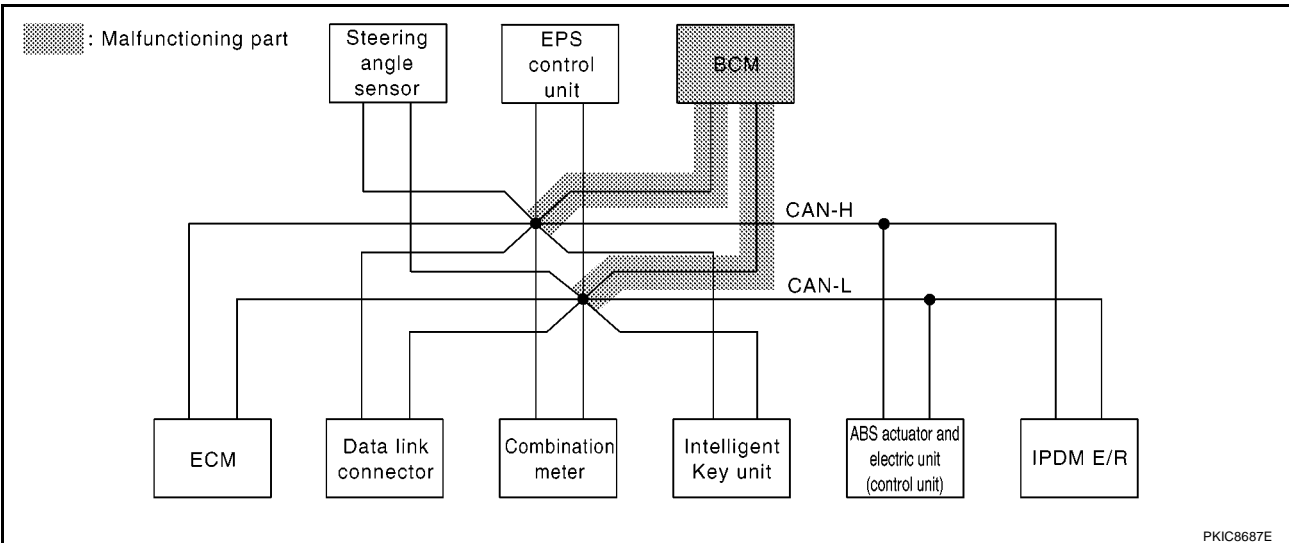
Case 8

Check BCM circuit. Refer to [LAN-186, "BCM Circuit Inspection"](#) .

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

PKIC9363E

PKIC9363E



PKIC8687E

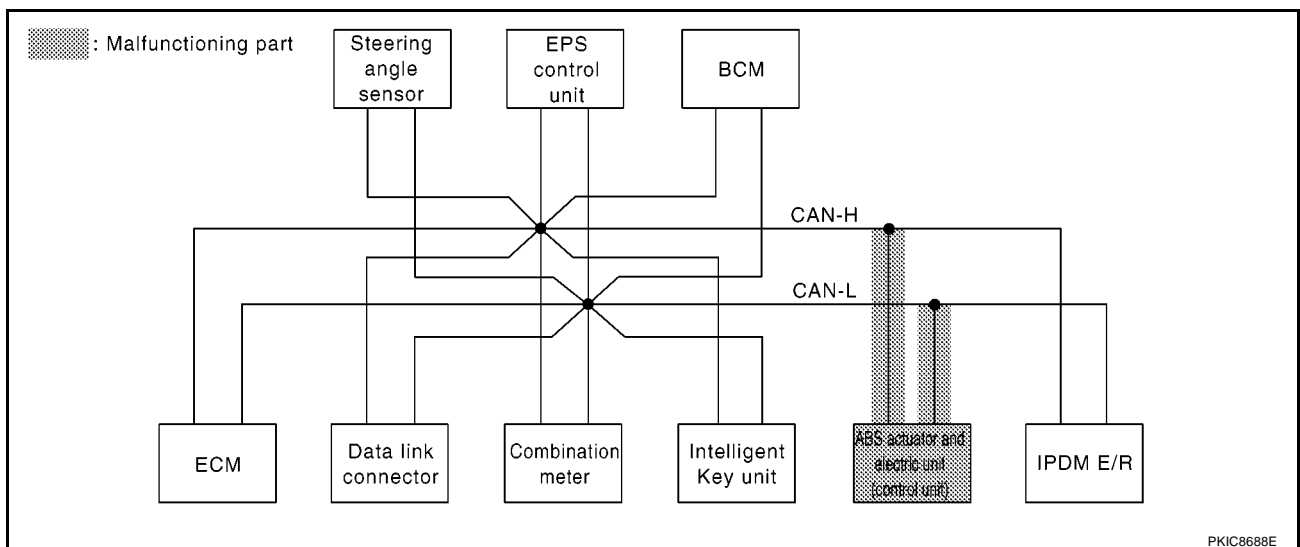
Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-186, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

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

PKIC9364E

PKIC9364E



PKIC8688E

CAN SYSTEM (TYPE 10)

[CAN]

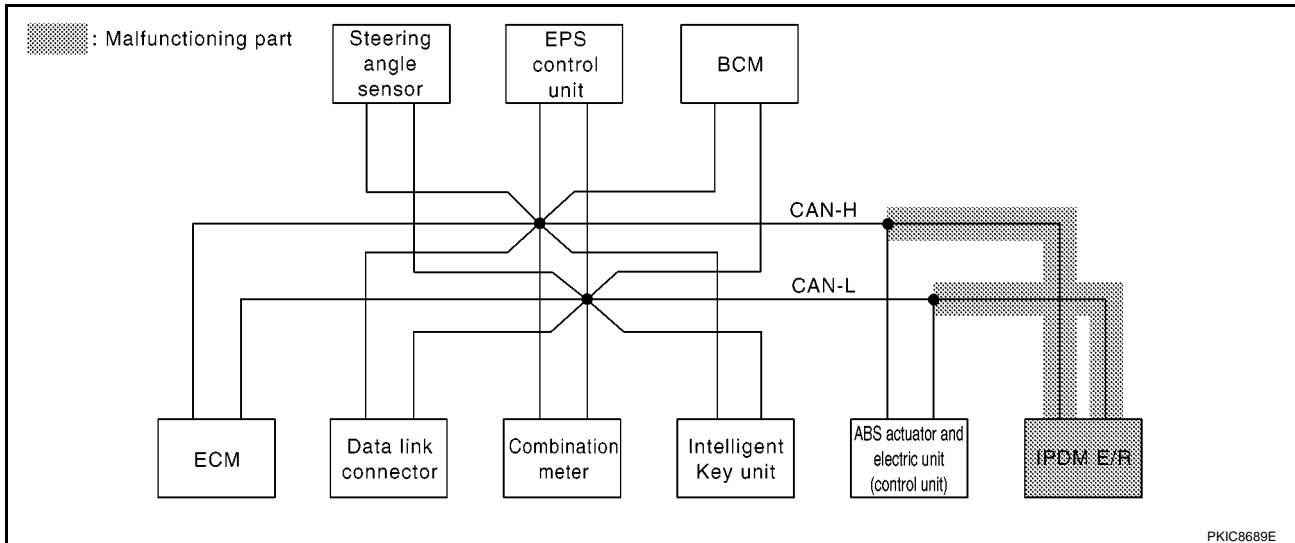
Case 10

Check IPDM E/R circuit. Refer to [LAN-188, "IPDM E/R Circuit Inspection"](#) .

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

PKIC9365E

PKIC9365E



PKIC8689E

CAN SYSTEM (TYPE 10)

[CAN]

Case 11

Check CAN communication circuit. Refer to [LAN-182, "Data Link Connector and CAN Communication Circuit Inspection"](#).

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

PKIC9366E

PKIC9366E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#).

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

PKIC9367E

PKIC9367E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to [LAN-190, "IPDM E/R Ignition Relay Circuit Inspection"](#) .

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

PKIC9368E

PKIC9368E

TROUBLE DIAGNOSIS FOR SYSTEM

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

BKS00115

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 M1
 - Harness connector E101

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

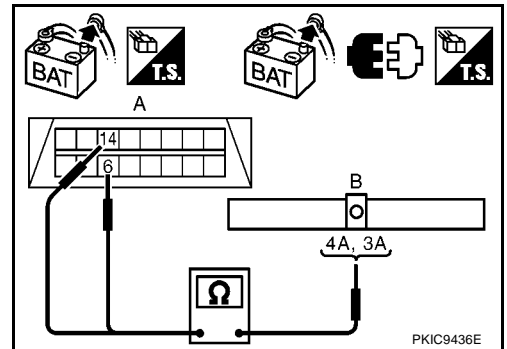
1. Disconnect harness connector M1.
2. Check continuity between data link connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M14	6	M1	4A	Yes
	14		3A	Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness.

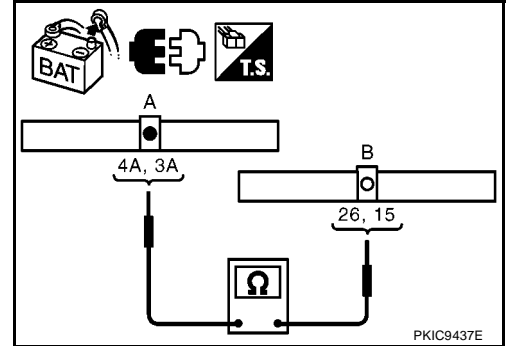


3. CHECK HARNESS FOR OPEN CIRCUIT

ABS model

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

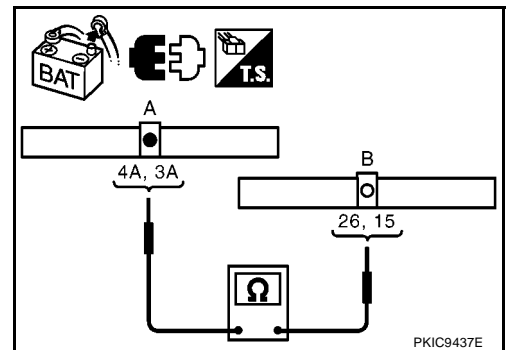
A		B		Continuity
Connector	Terminal	Connector	Terminal	
E101	4A	E32	26	Yes
	3A		15	Yes



ESP model

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E101	4A	E33	26	Yes
	3A		15	Yes



OK or NG

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

ECM Circuit Inspection

BKS00119

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
 - ECM connector
 - Harness connector E101
 - Harness connector M1

OK or NG

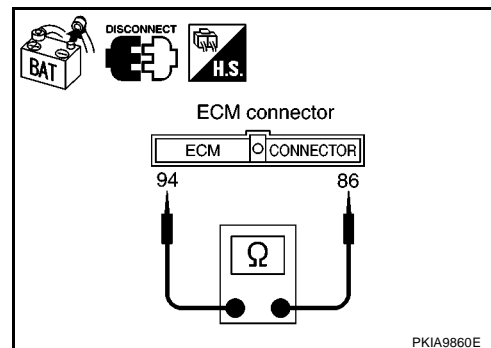
- OK >> GO TO 2.
- NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

CR14DE model

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

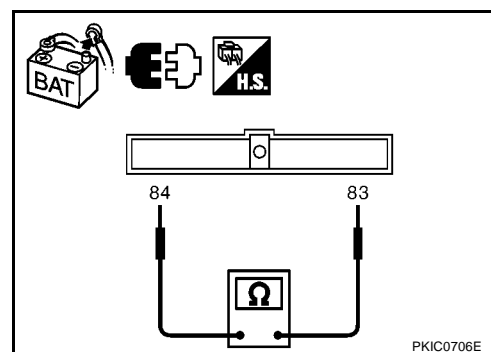
ECM connector	Terminal		Resistance (Approx.)
E40	94	86	108 – 132 Ω



HR16DE model

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

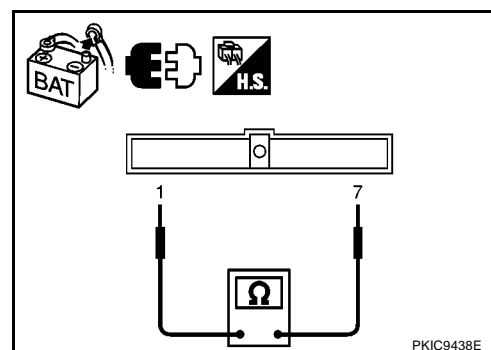
ECM connector	Terminal		Resistance (Approx.)
E40	84	83	108 – 132 Ω



K9K model

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

ECM connector	Terminal		Resistance (Approx.)
E40	1	7	108 – 132 Ω



OK or NG

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

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

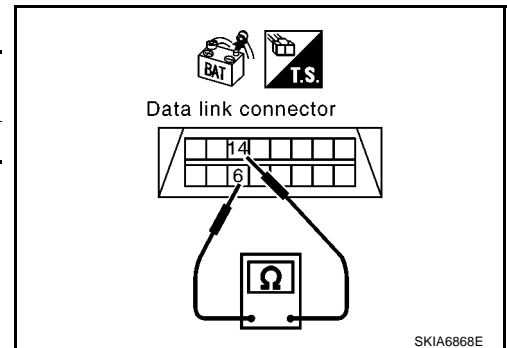
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M14	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.



Data Link Connector and CAN Communication Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

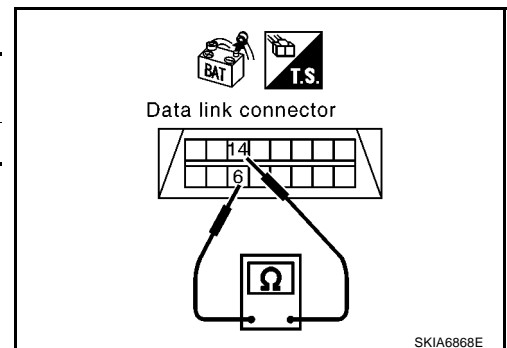
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Continuity
M14	6	14	Yes

OK or NG

- OK >> GO TO 3.
 NG >> Repair harness between data link connector and combination meter.



3. CHECK CONNECTOR

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 4.
 NG >> Repair terminal or connector as necessary.

4. CHECK HARNESS FOR SHORT CIRCUIT

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

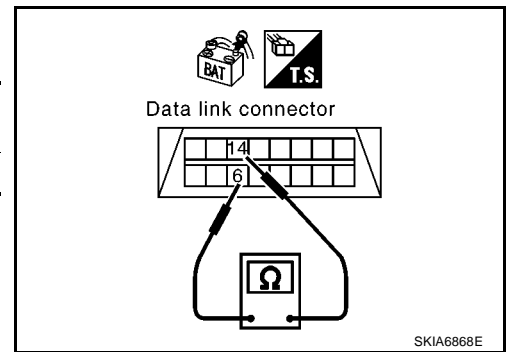
Data link connector	Terminal		Continuity
M14	6	14	No

OK or NG

OK >> GO TO 5.

NG >> ● Repair harness.

- Replace harness if shielded lines are used for the harness.



5. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

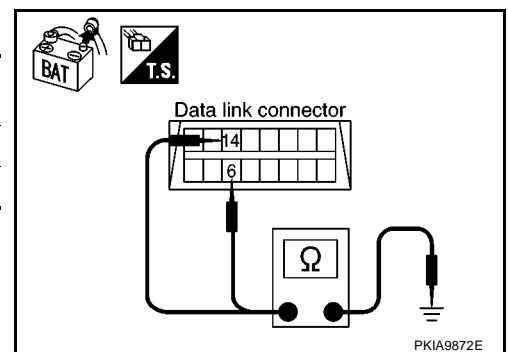
Data link connector	Terminal	Ground	Continuity
M14	6		No
	14		No

OK or NG

OK >> GO TO 6.

NG >> ● Repair harness.

- Replace harness if shielded lines are used for the harness.



6. 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.)
1	7	108 – 132 Ω

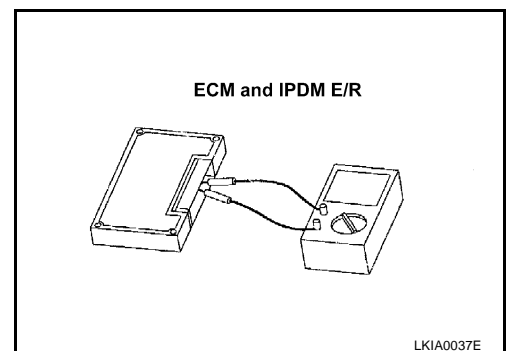
3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
52	58	108 – 132 Ω

OK or NG

OK >> GO TO 7.

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



7. CHECK SYMPTOM

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

Check results

Reproduced>>GO TO 8.

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

8. UNIT REPRODUCIBILITY INSPECTION

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

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced.

NOTE:

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

Inspection results

Reproduced>>Connect the disconnected connector. Check other units applying the above procedure.

Not reproduced>>Replace the unit that the connector is disconnected.

Combination Meter Circuit Inspection

BKS0011F

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

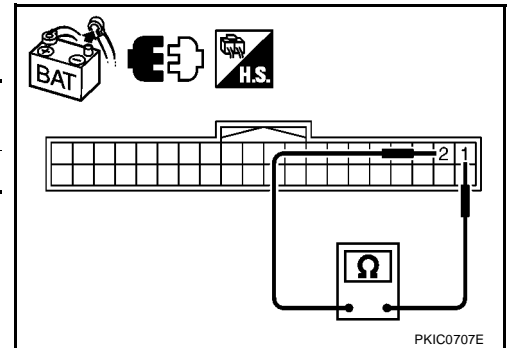
1. Disconnect combination meter connector.
2. Check resistance between combination meter harness connector terminals.

combination meter connector	Terminal		Resistance (Approx.)
M27	1	2	54 – 66 Ω

OK or NG

OK >> Replace combination meter

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



PKIC0707E

Intelligent Key Unit Circuit Inspection

BKS0011A

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.

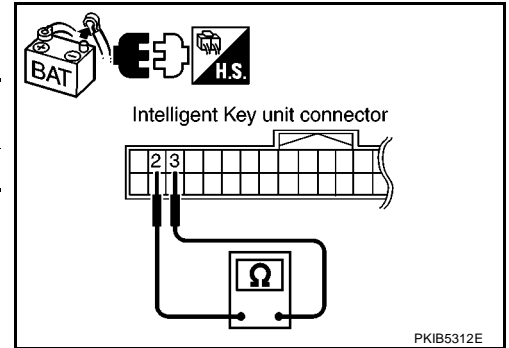
2. CHECK HARNESS FOR OPEN CIRCUIT

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

Intelligent Key unit connector	Terminal		Resistance (Approx.)
M60	2	3	54 – 66 Ω

OK or NG

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



BKS0011G

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.

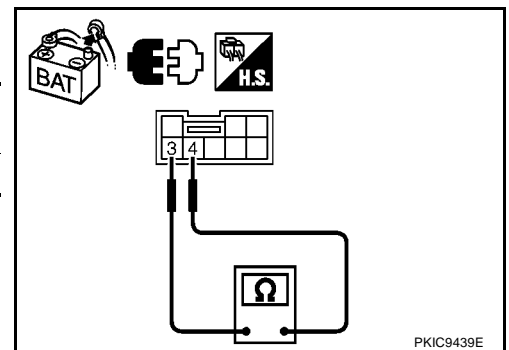
2. CHECK HARNESS FOR OPEN CIRCUIT

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

Steering angle sensor connector	Terminal		Resistance (Approx.)
M40	3	4	54 – 66 Ω

OK or NG

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



BKS0011D

EPS Control Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

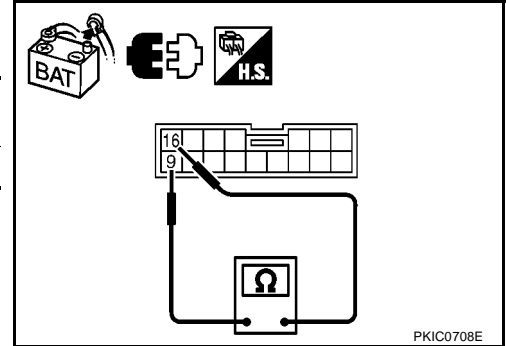
2. CHECK HARNESS FOR OPEN CIRCUIT

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

EPS control unit connector	Terminal		Resistance (Approx.)
M25	9	16	54 – 66 Ω

OK or NG

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



BKS0011C

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.

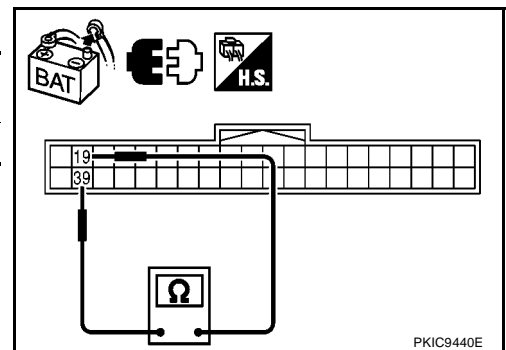
2. CHECK HARNESS FOR OPEN CIRCUIT

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

BCM connector	Terminal		Resistance (Approx.)
M57	19	39	54 – 66 Ω

OK or NG

- OK >> Replace BCM. Refer to [BCS-17, "Removal and Installation of BCM"](#) .
 NG >> Repair harness between BCM and data link connector.



BKS0011J

ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

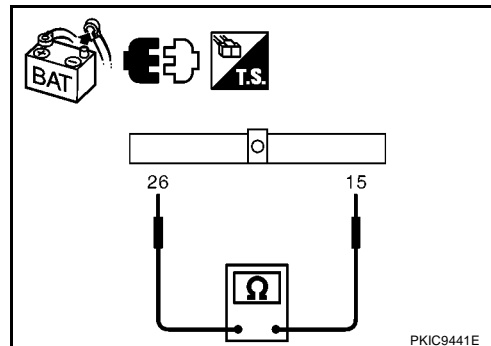
- OK >> GO TO 2.
 NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

ABS model

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

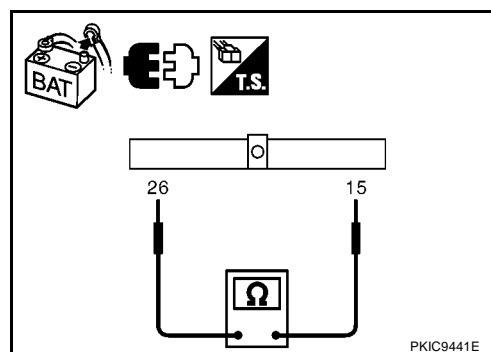
ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
	26	15	
E32	26	15	54 – 66 Ω



ESP model

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

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
	26	15	
E33	26	15	54 – 66 Ω



OK or NG

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

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 TCM for damage, bend and loose connection (control module side and harness side).

OK or NG

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

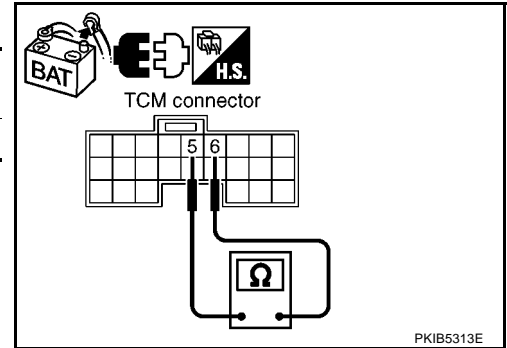
2. CHECK HARNESS FOR OPEN CIRCUIT

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

TCM connector	Terminal		Resistance (Approx.)
E106	5	6	54 – 66 Ω

OK or NG

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



BKS001IK

IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

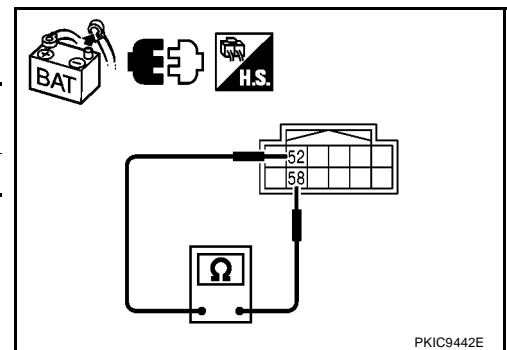
2. CHECK HARNESS FOR OPEN CIRCUIT

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

IPDM E/R connector	Terminal		Resistance (Approx.)
E12	52	58	108 – 132 Ω

OK or NG

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



BKS001IL

CAN Communication Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

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

2. CHECK HARNESS FOR SHORT CIRCUIT

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

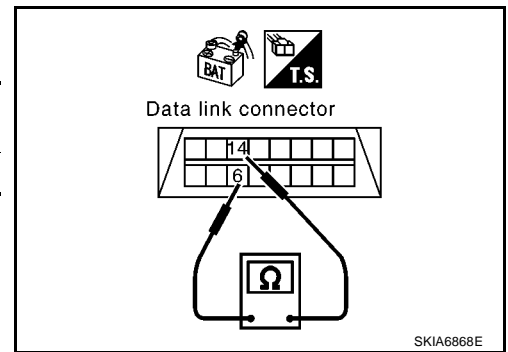
Data link connector	Terminal		Continuity
M14	6	14	No

OK or NG

OK >> GO TO 3.

NG >> ● Repair harness.

- Replace harness if shielded lines are used for the harness.



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

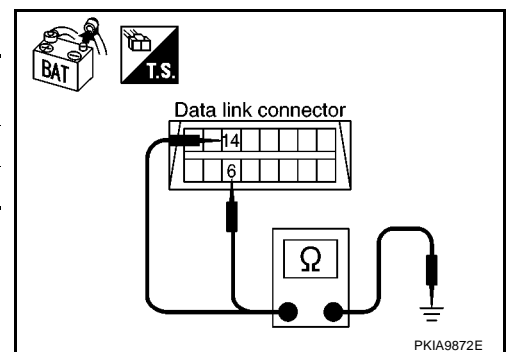
Data link connector	Terminal	Ground	Continuity
M14	6		No
	14		No

OK or NG

OK >> GO TO 4.

NG >> ● Repair harness.

- Replace harness if shielded lines are used for the harness.



4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

ECM	Terminal		Resistance (Approx.)
CR14DE	94	86	108 – 132 Ω
HR16DE	84	83	108 – 132 Ω

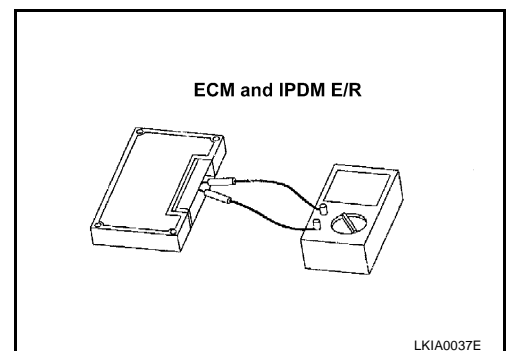
3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
52	58	108 – 132 Ω

OK or NG

OK >> GO TO 5.

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



5. CHECK SYMPTOM

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

Check results

Reproduced >> GO TO 6.

Not reproduced >> Refer to [LAN-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 battery cable from the negative terminal.
3. Disconnect the unit connector.
4. Connect the battery cable to the negative terminal.
5. Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced.

NOTE:

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

Inspection results

Reproduced>>Connect the disconnected connector. Check other units applying the above procedure.

Not reproduced>>Replace the unit that the connector is disconnected.

IPDM E/R Ignition Relay Circuit Inspection

BKS0011M

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

- IPDM E/R power supply circuit. Refer to [PG-34, "Check IPDM E/R Power Supply and Ground Circuit"](#) .
- Ignition power supply circuit. Refer to [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START""](#) .