SECTION LAN

LAN SYSTEM

CONTENTS

CAN

PRECAUTIONS

PFP:00001

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

BKS001IN

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

BKS001IO

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

CAUTION:

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

CHECK POINTS FOR USING CONSULT-II

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

Precautions for Trouble Diagnosis

BKS001IP

CAN SYSTEM

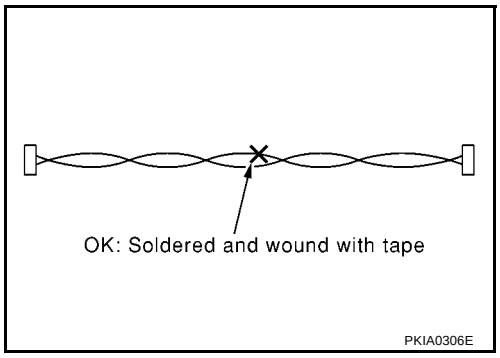
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precautions for Harness Repair

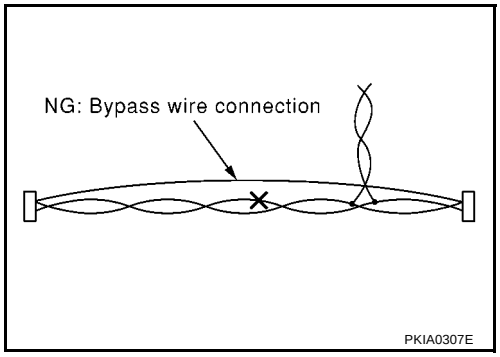
BKS001IQ

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

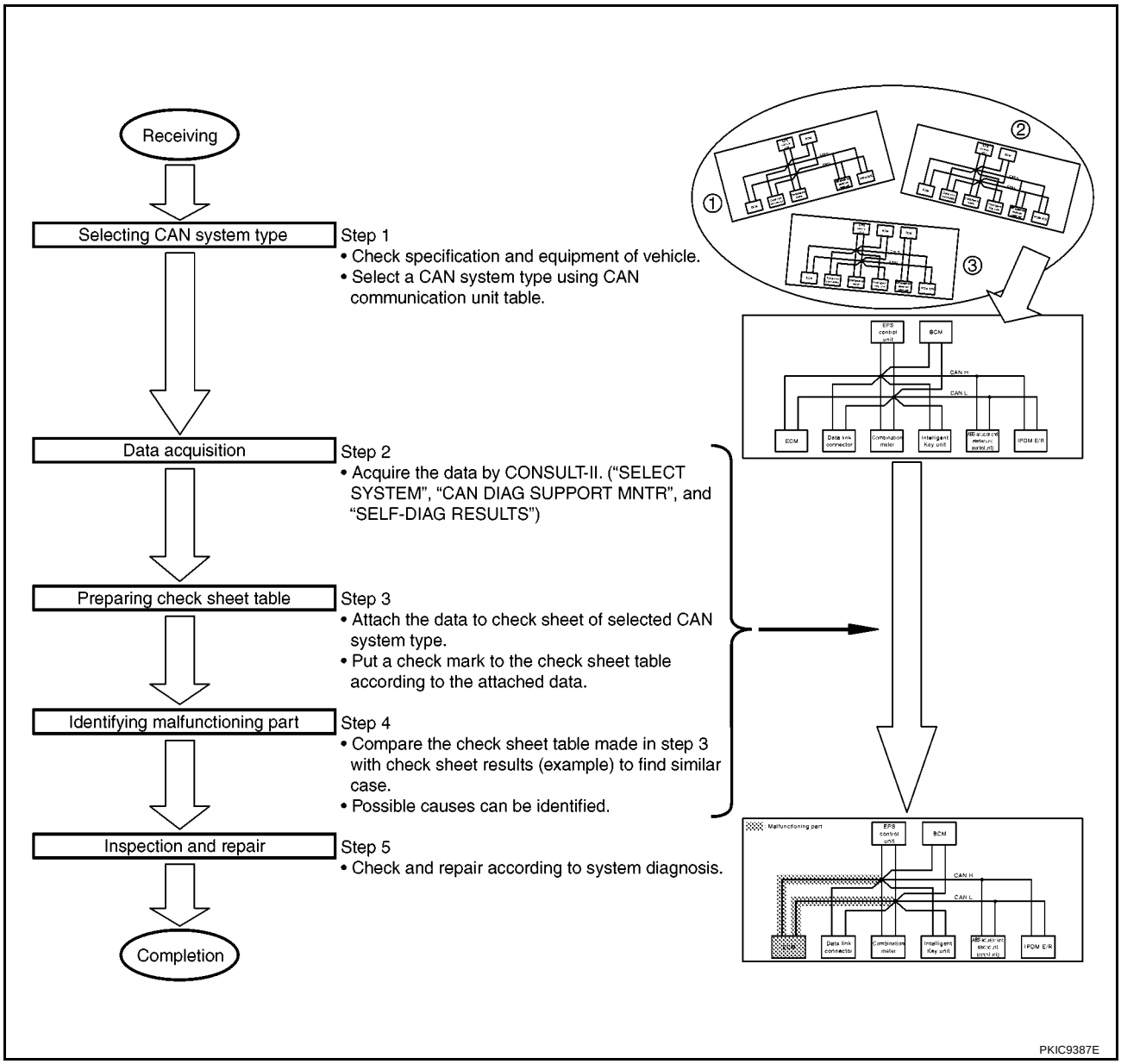
- CAN communication line is open. (CAN-H, CAN-L, or both)
- CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)
- The areas related to CAN communication of unit is malfunctioning.

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.

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

BKS001HX

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		×		×		×		×		×
CAN system type	1	2	3	4	5	6	7	8	9	10
CAN system trouble diagnosis	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX

×: Applicable

Check basic specification of the vehicle.

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

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

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

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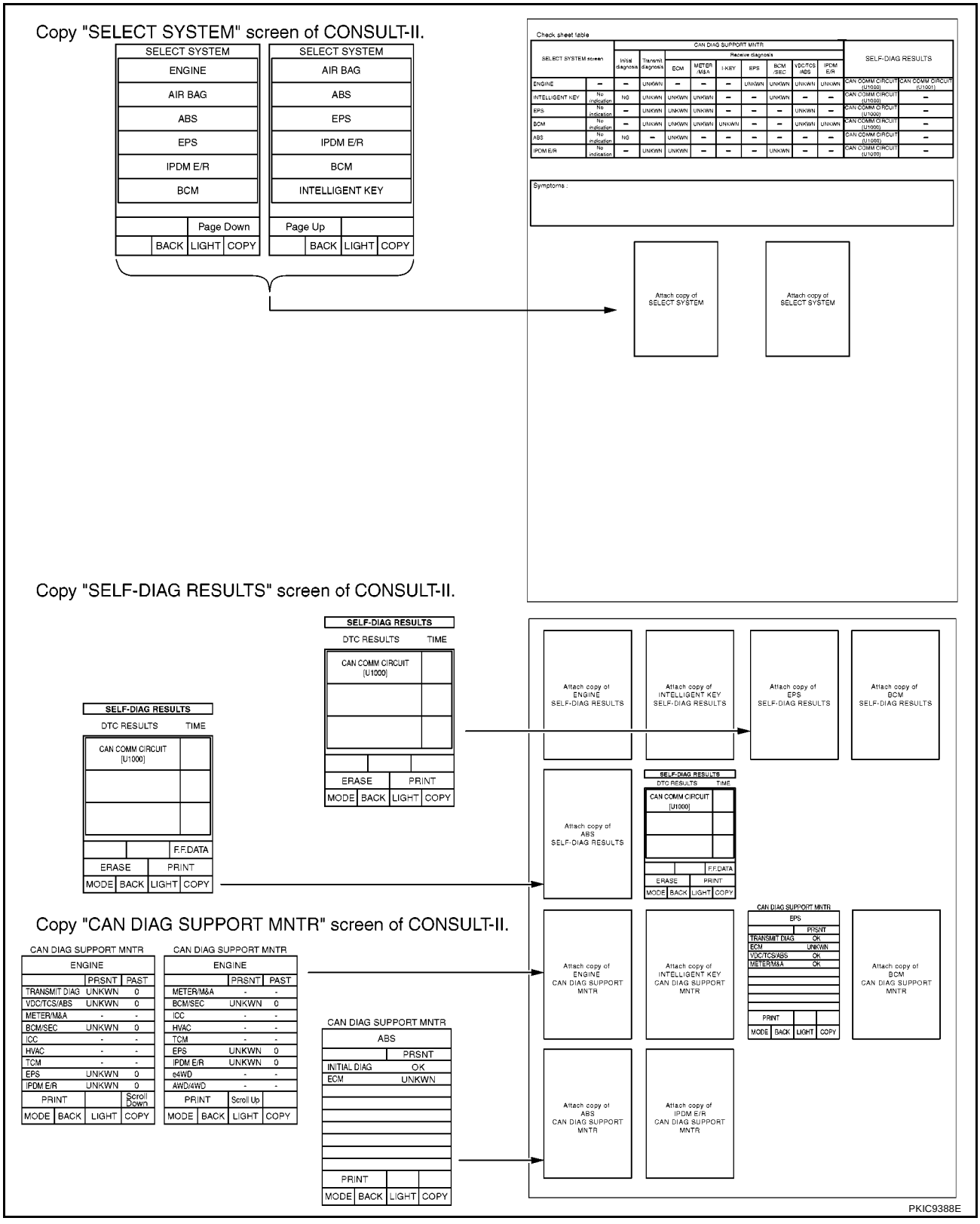
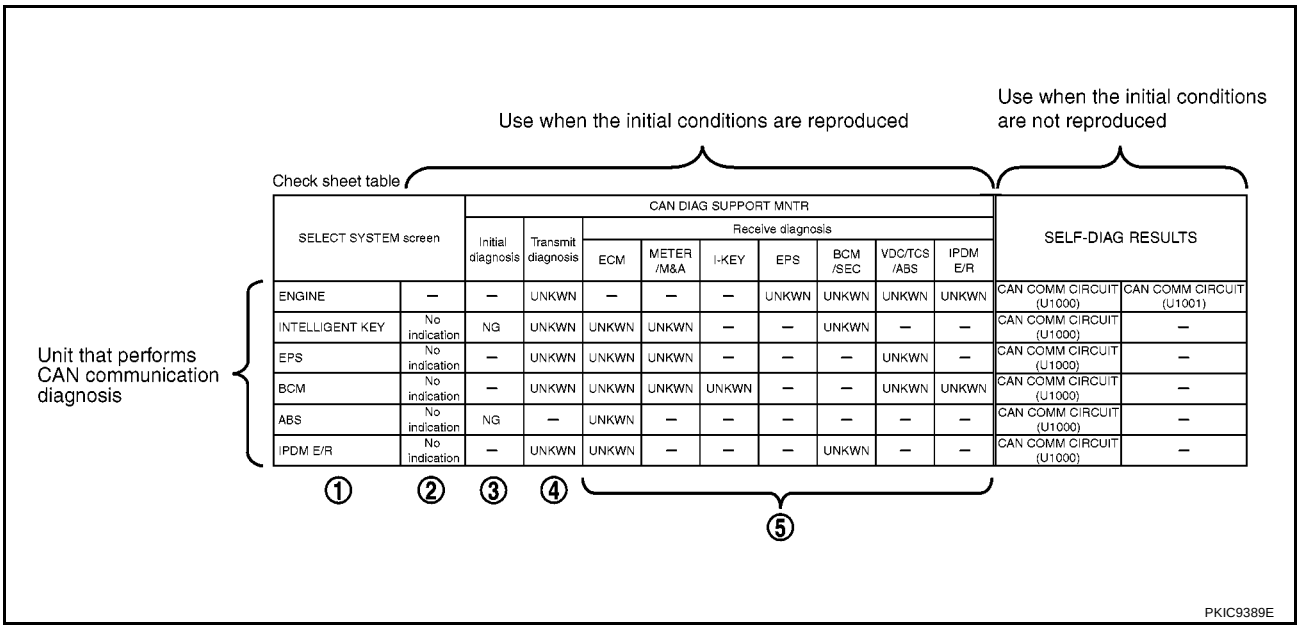
ACQUISITION OF DATA BY CONSULT-II

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



HOW TO USE 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)	–

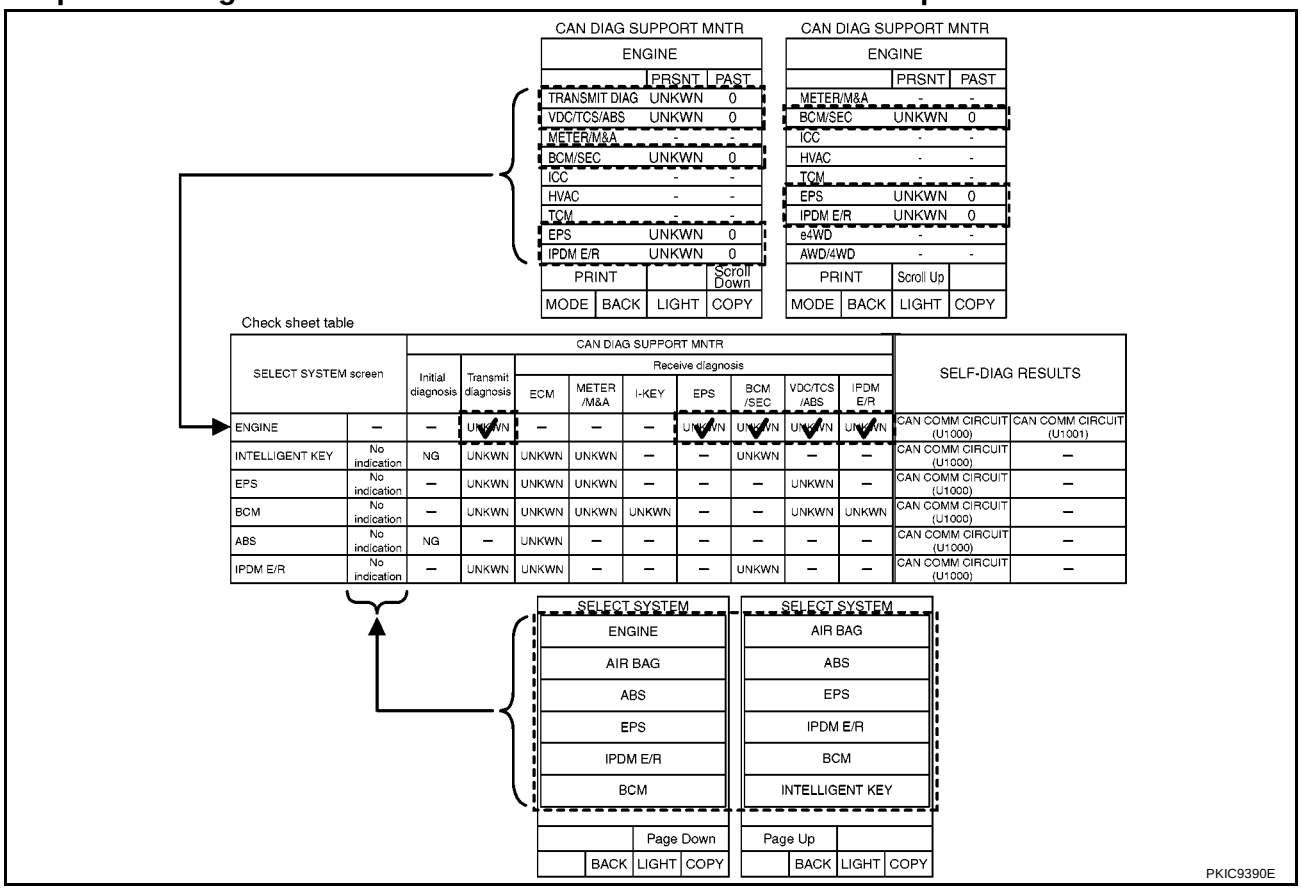
1. Unit names displayed on CONSULT-II.
2. “No indication”: Put a check mark to it if the unit name described in step 1 is not displayed on “SELECT SYSTEM” screen of CONSULT-II. (Unit communicating with CONSULT-II via CAN communication line)
   “–”: Column not used (Unit communicating with CONSULT-II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

   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.
4. “UNKWN”: Display “UNKWN” when the diagnosed unit does not transmit the data normally. Put a check mark to it if “UNKWN” is displayed on CONSULT-II.
   “–”: Column not used (transmit diagnosis is not performed.)
5. “UNKWN”: Display “UNKWN” when the diagnosed unit does not receive the data normally. Put a check mark to it if “UNKWN” is displayed on CONSULT-II.
   “–”: Column not used (It is not necessary for CAN communication trouble diagnosis.)

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

- When the initial conditions are reproduced, refer to LAN-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" .

Example of Filling in Check Sheet When Initial Conditions Are Reproduced

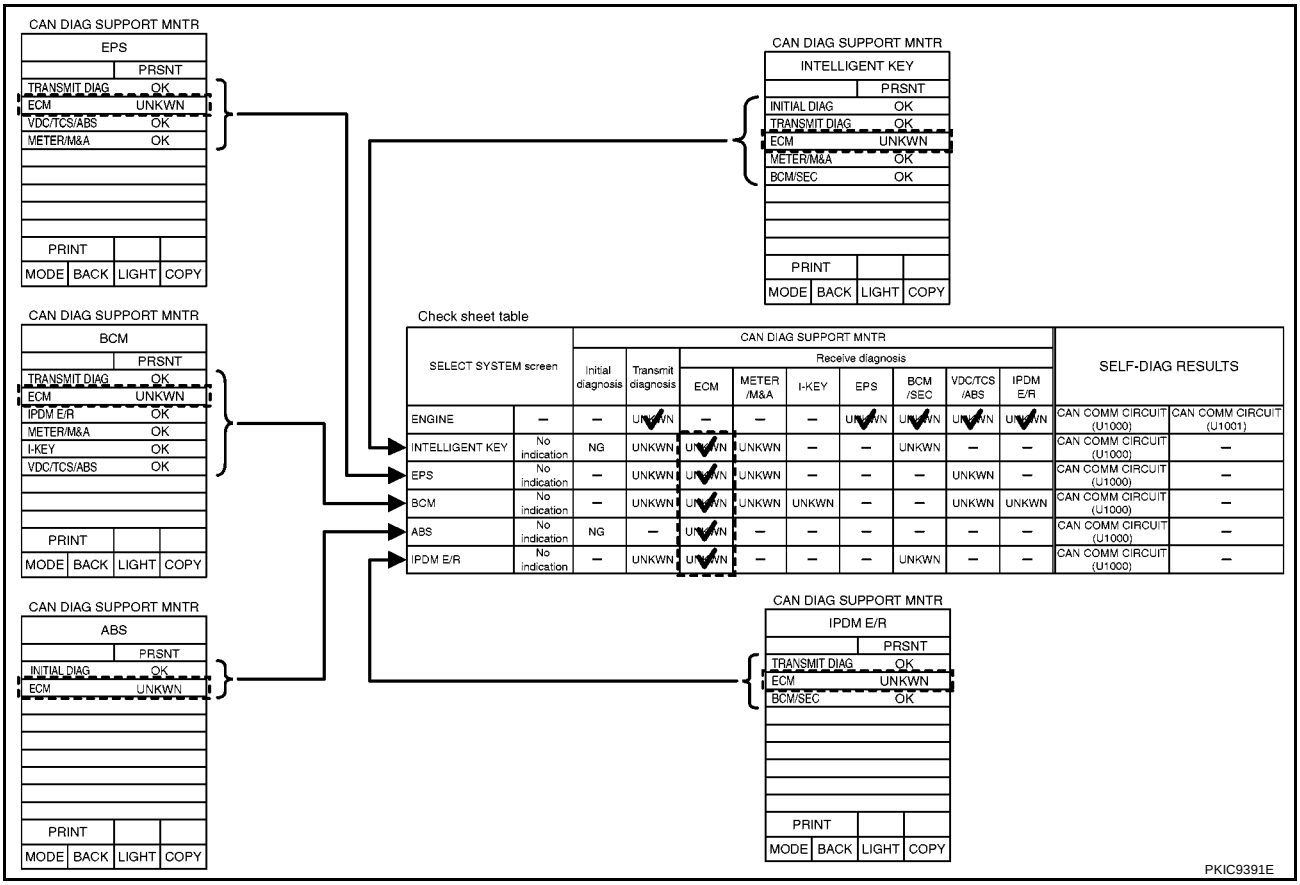


1. Put a check mark to “No indication” if some of unit names listed on the column of diagnosis system selection screen of a check sheet table are not displayed on “SELECT SYSTEM” screen attached to the check sheet.

   NOTE:
   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.

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

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



3. Confirm the unit name that “UNKWN” is displayed on the copy of “CAN DIAG SUPPORT MNTR” screen of “INTELLIGENT KEY”, “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.

The arranged results of CAN diagnosis support monitor

Check sheet table

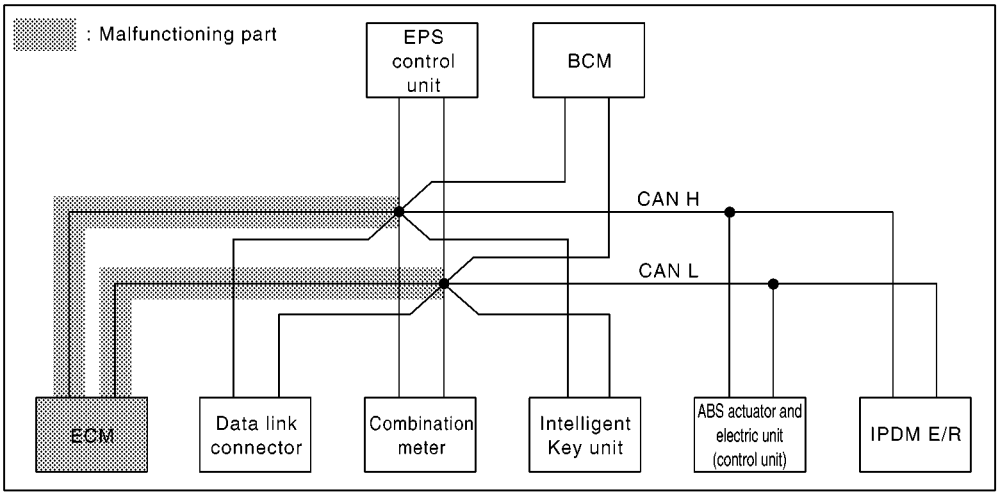
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	–	–	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT 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	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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NOTE:
There is a case that some of “CAN DIAG SUPPORT MNTR” and “SELF-DIAG RESULTS” are not needed for diagnosis. In the case, “UNKWN” and “CAN COMM CIRCUIT [U1000]” in “Check sheet results (example)” change to “–”. Then, ignore check marks on the check sheet table.

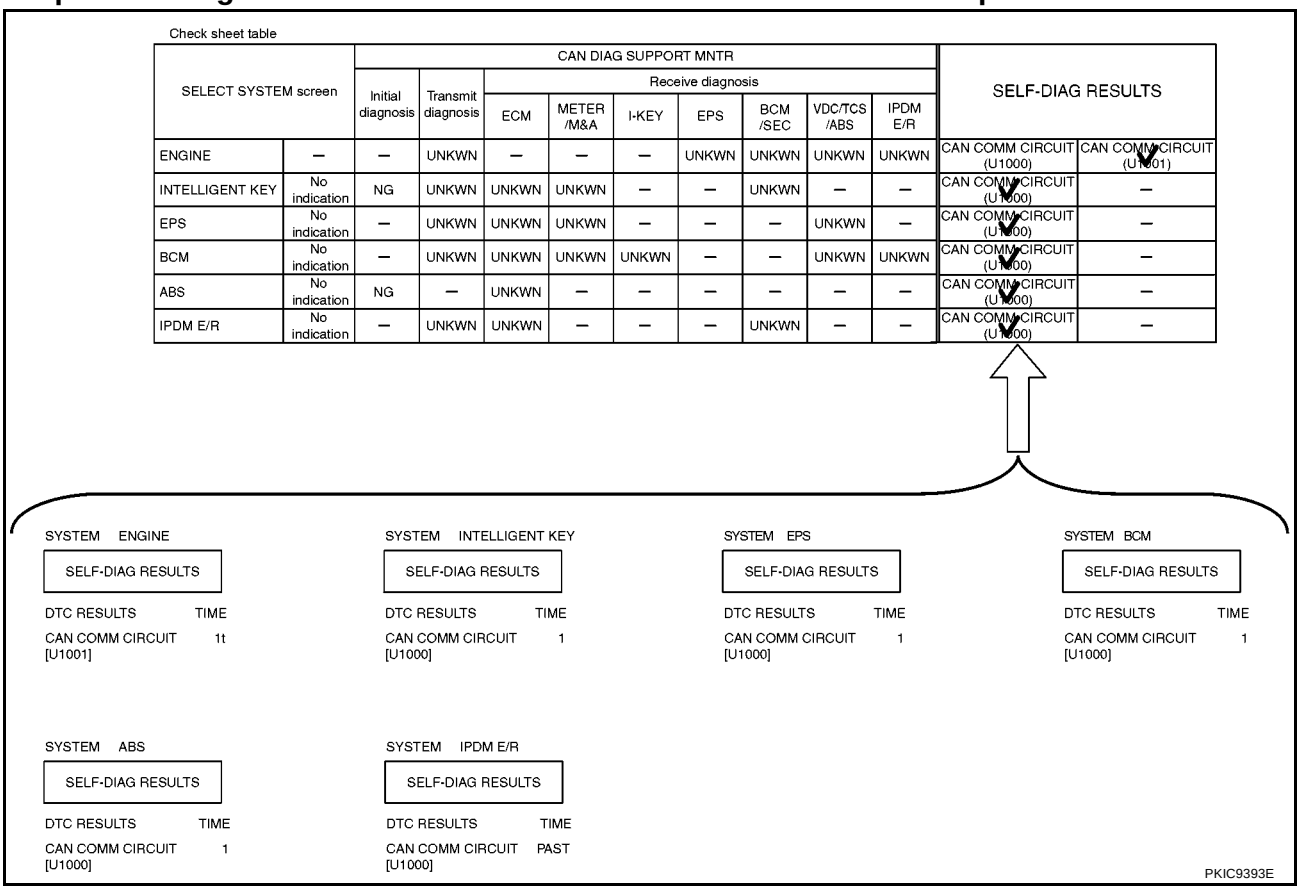
4. Perform system diagnosis for possible causes identified.
5. Perform diagnosis again after inspection and repair. Make sure that repair is completely performed, and then end the procedure.

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

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) ✓	–



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

NOTE:

- For “ENGINE”, “CAN COMM CIRCUIT [U1001]” is displayed. Put a check mark to it.
- For “INTELLIGENT KEY”, “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.

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)	–

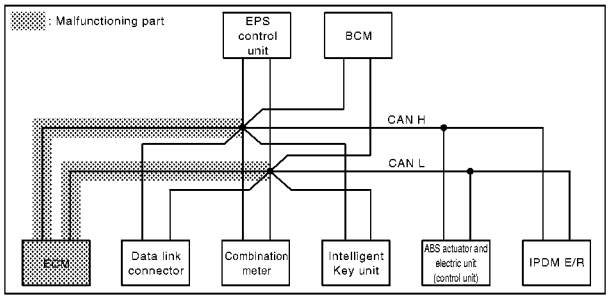
When the arranged results of self-diagnosis and check sheet results (example) are corresponding, possible causes can be selected.

Case 2
Check ECM 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	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)	–

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	–	–	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)	–



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

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

CAN Diagnostic Support Monitor

BKS001HY

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR ECM

CR14DE/HR16DE model

(Example)

CAN DIAG SUPPORT MNTR

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

CAN DIAG SUPPORT MNTR

ENGINE		
	PRSNT	PAST
METER/M&A	-	-
BCM/SEC	OK	OK
ICC	-	-
HVAC	-	-
TCM	OK	OK
EPS	OK	OK
IPDM E/R	OK	OK
e4WD	-	-
AWD/4WD	-	-
PRINT	Scroll Up	
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.	–	

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

K9K model

(Example)

CAN DIAG SUPPORT MNTR

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

PKIC9372E

"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/–	

Display Results (Present)

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

Display Results (Past)

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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR 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 SUPPORT 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.

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.

ESP model

(Example)

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

PKIC9377E

"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/–	

Display Results (Present)

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

Display Results (Past)

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

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TCM

(Example)

CAN DIAG SUPPORT MNTR

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

PFP:23710

System Description

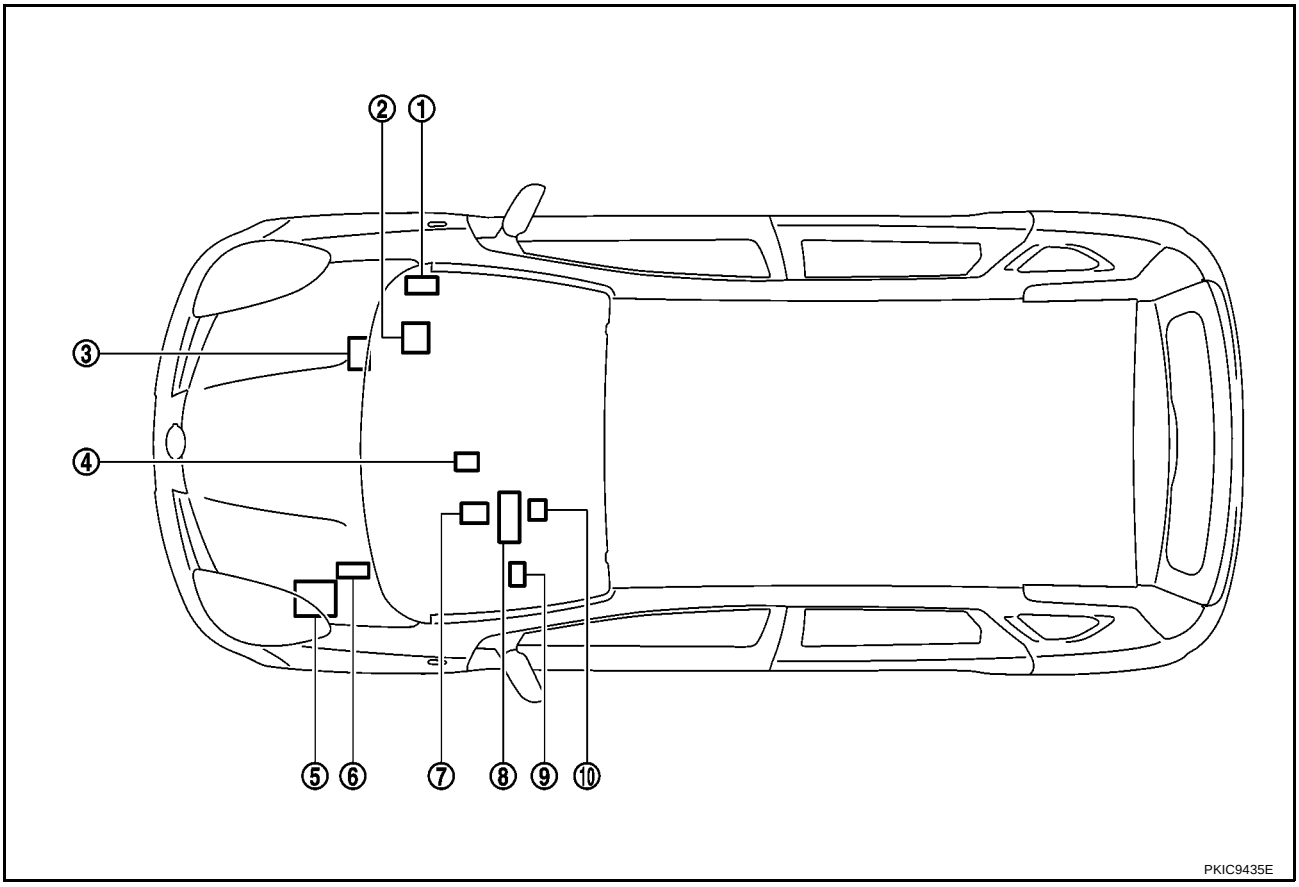
BKS0014C

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

BKS001IR

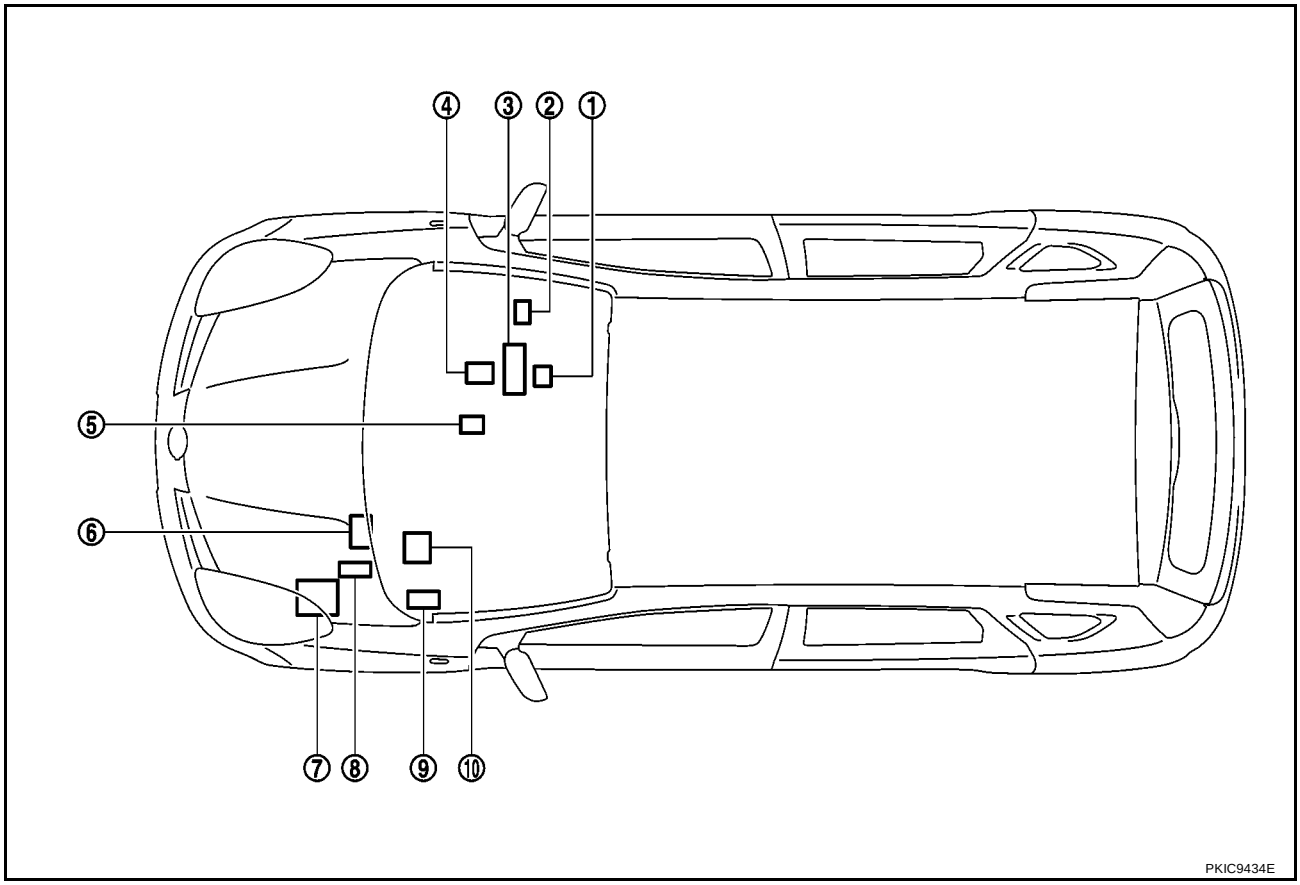
LHD MODEL



PKIC9435E

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



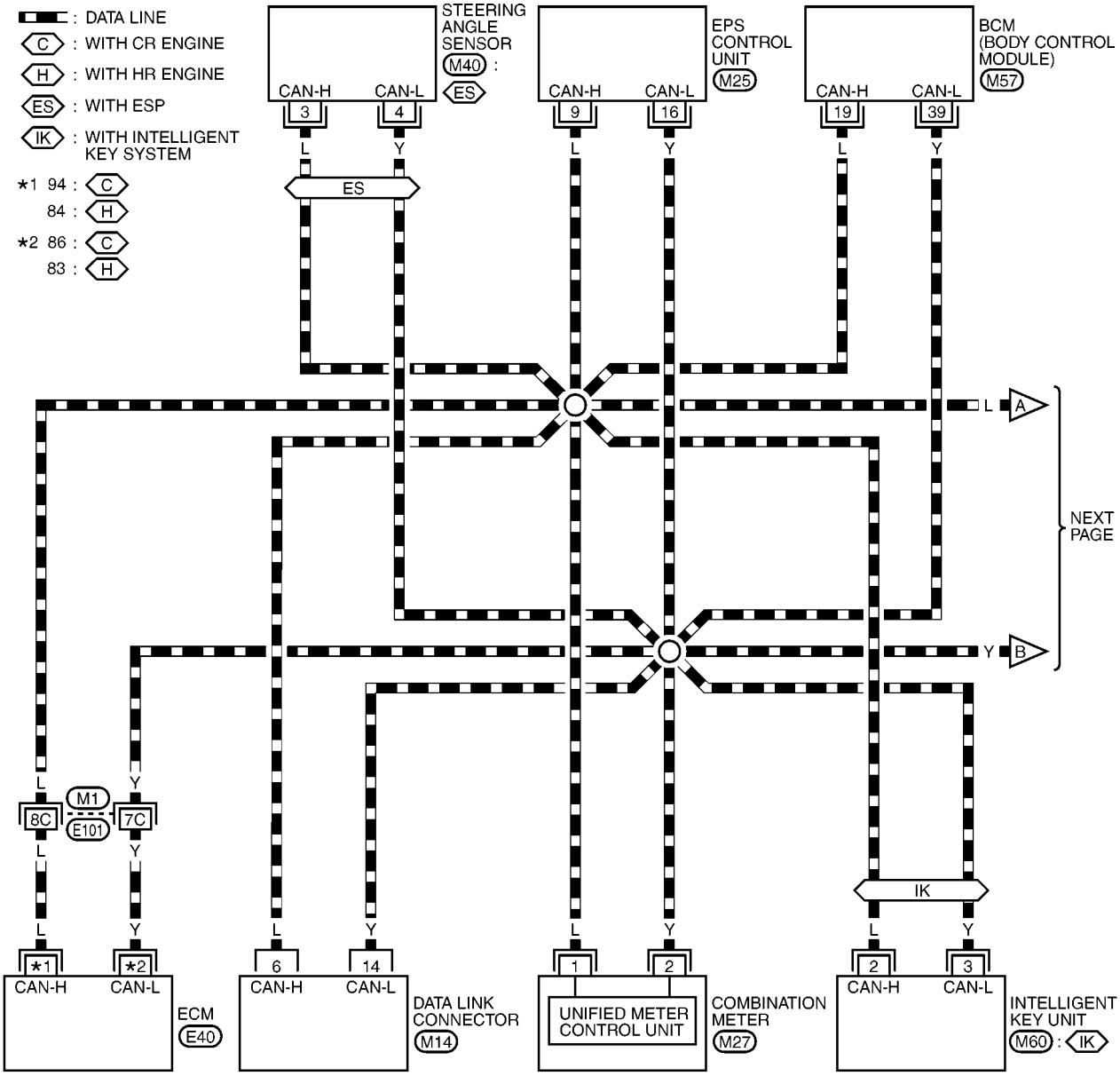
1. Steering angle sensor M40
2. Data link connector M14
3. Combination meter M27
4. EPS control unit M25
5. Intelligent Key unit M60
6. ABS actuator and electric unit (control unit) E32 (ABS model)
   ABS actuator and electric unit (control unit) E33 (ESP model)
7. IPDM E/R E12
8. ECM E40
9. TCM E106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

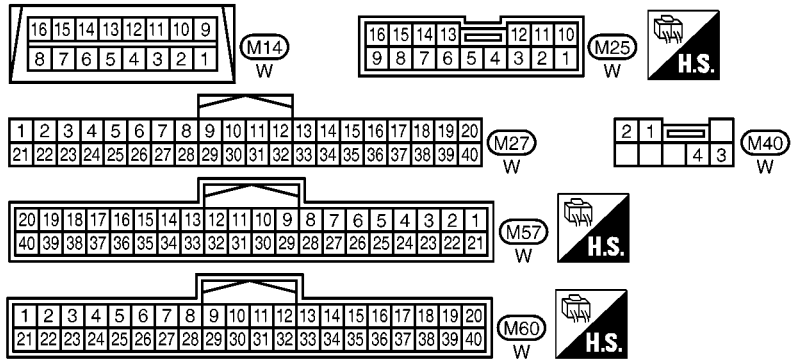
Wiring Diagram — CAN —

CR14DE/HR16DE MODEL

BKS001IS

LAN-CAN-01





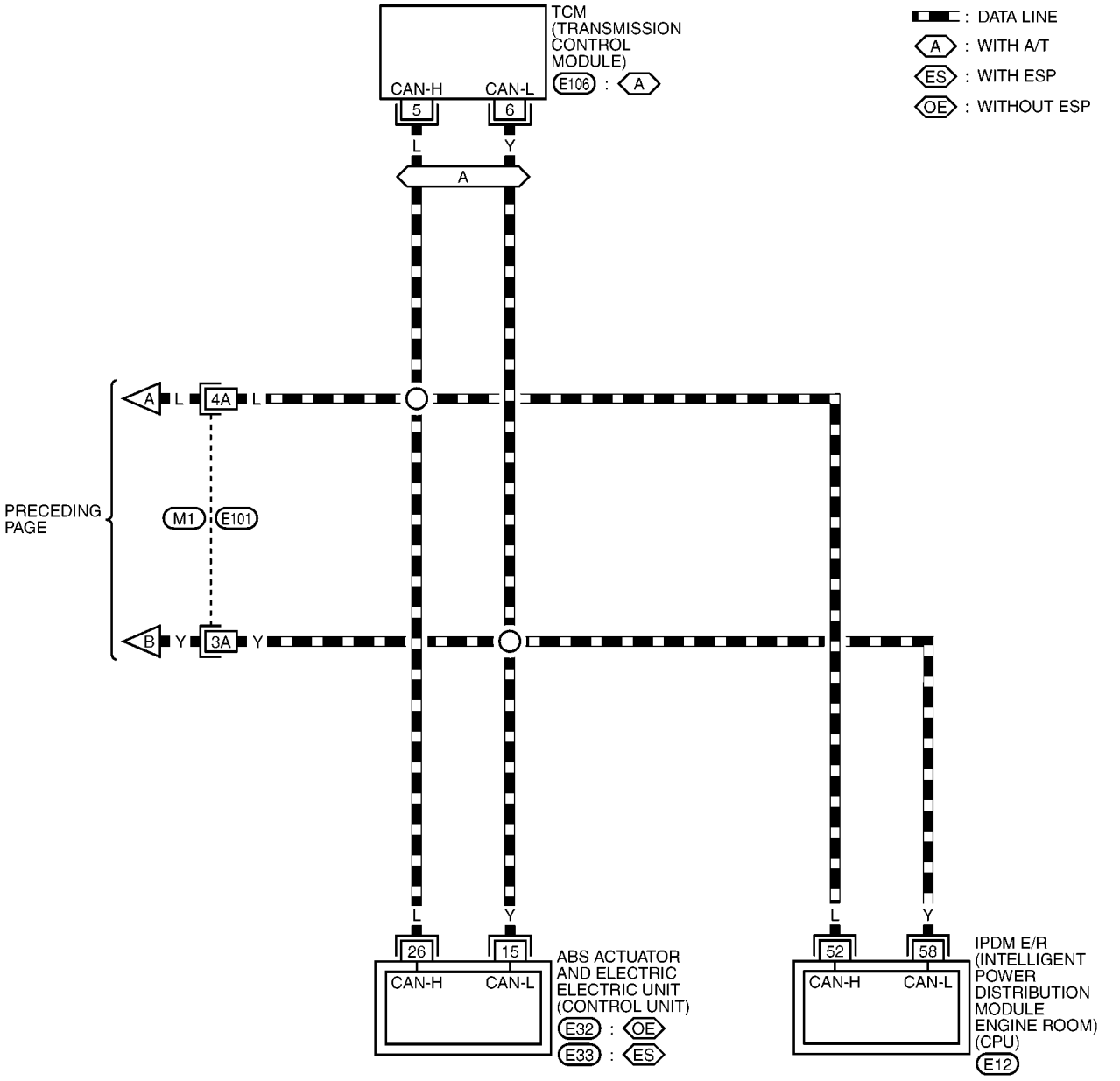
REFER TO THE FOLLOWING.

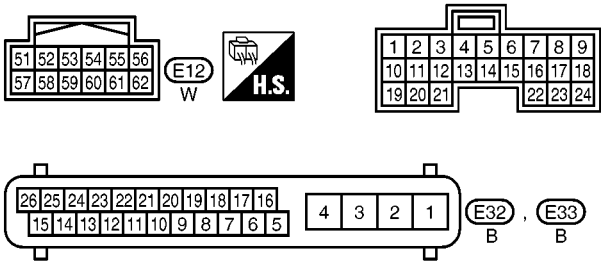
M1 - SUPER MULTIPLE JUNCTION (SMJ)

E40 - ELECTRICAL UNITS

MKWA4293E

LAN-CAN-02



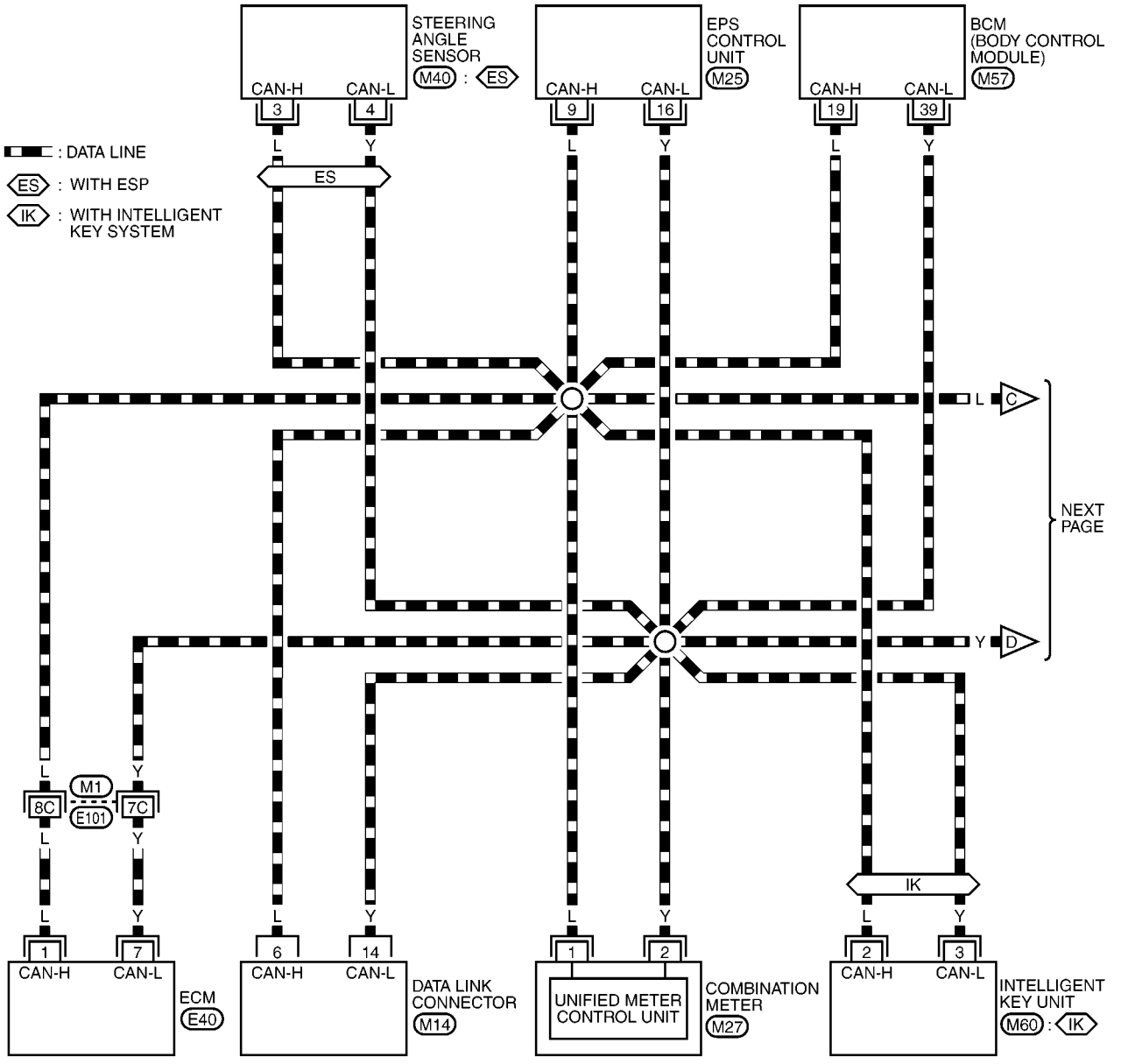


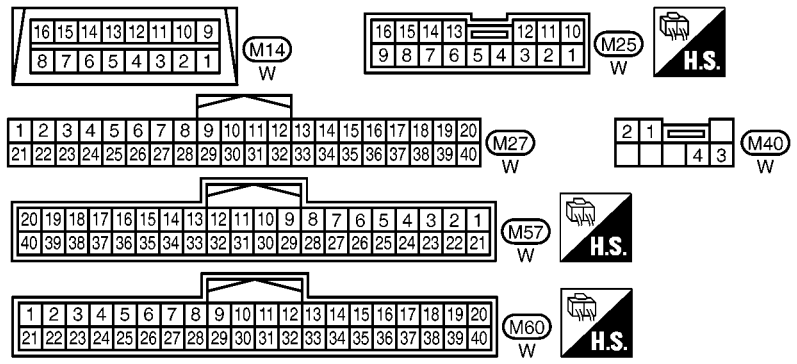
REFER TO THE FOLLOWING.
M1 - SUPER MULTIPLE
JUNCTION (SMJ)

MKWA4294E

K9K MODEL

LAN-CAN-03





REFER TO THE FOLLOWING.

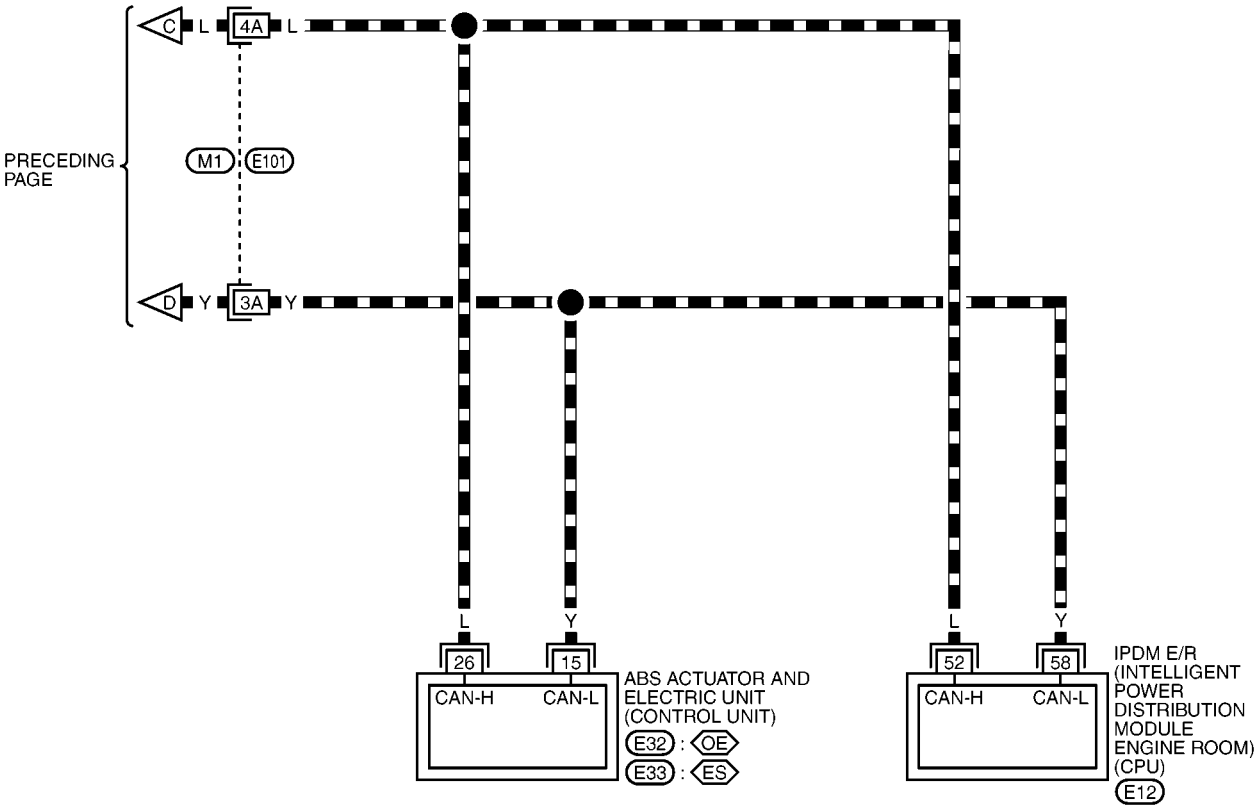
M1 - SUPER MULTIPLE JUNCTION (SMJ)

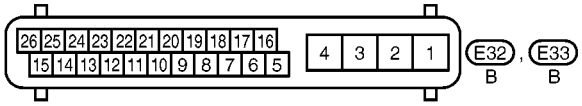
E40 - ELECTRICAL UNITS

MKWA4295E

LAN-CAN-04

: DATA LINE
ES : WITH ESP
OE : WITHOUT ESP





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

MKWA4296E

CAN Communication Unit

BKS001IT

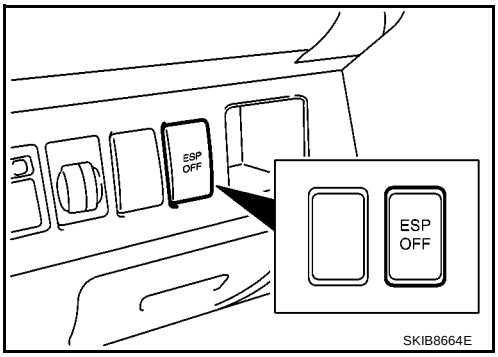
Go to CAN system, when selecting your car model from the following table.

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		×		×		×		×		×
CAN system type	1	2	3	4	5	6	7	8	9	10
CAN system trouble diagnosis	LAN-38	LAN-51	LAN-65	LAN-79	LAN-94	LAN-108	LAN-123	LAN-136	LAN-150	LAN-164

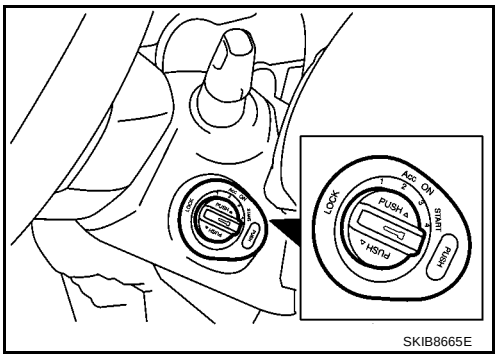
×: Applicable

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

- Model with ESP



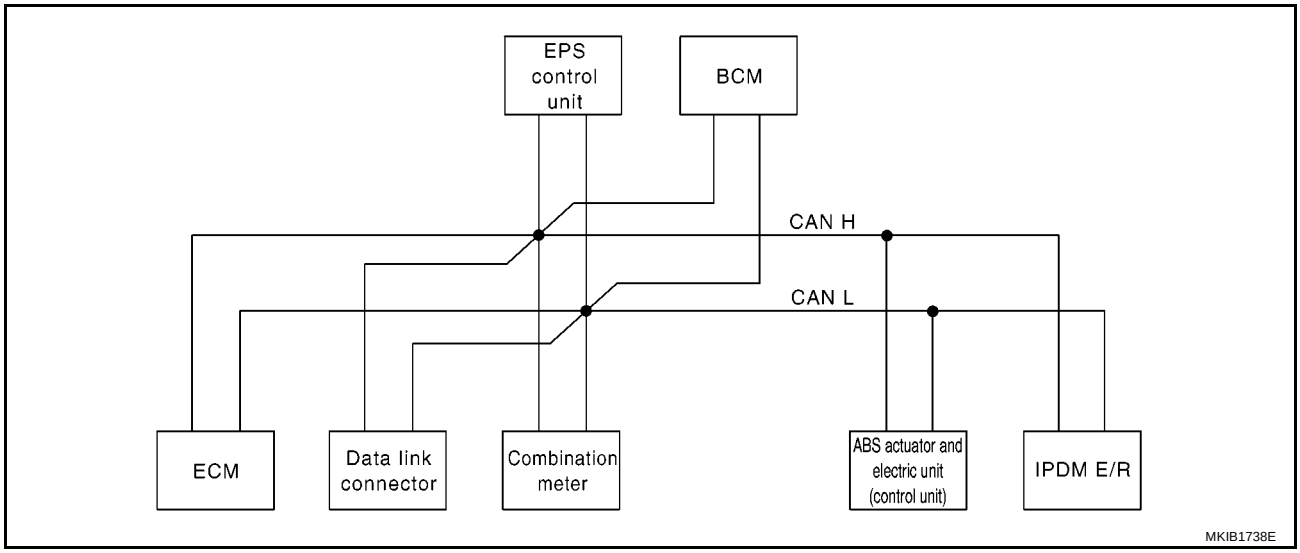
- Model with Intelligent Key system



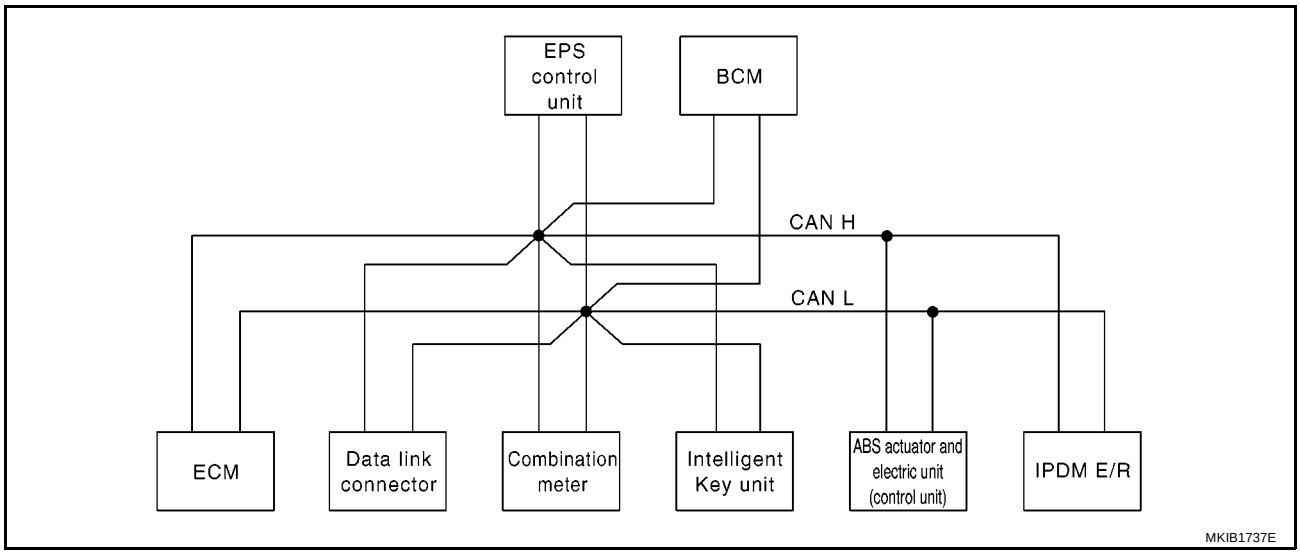
TYPE 1/TYPE 2

System diagram

- Type 1



- Type 2



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	Combination meter	Intelligent Key unit*	EPS control unit	BCM	ABS actuator and electric unit (control 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		

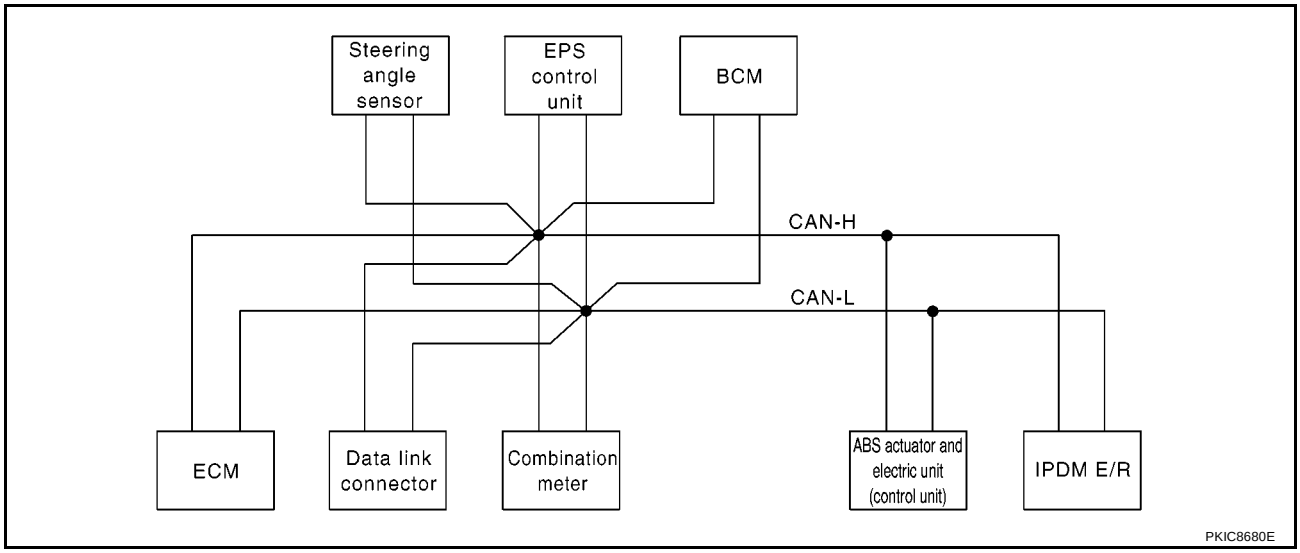
Signals	ECM	Combination meter	Intelligent Key unit*	EPS control unit	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
Buzzer output signal		R			T		
		R	T				
Door lock/unlock request signal			T		R		
KEY indicator signal		R	T				
LOCK indicator signal		R	T				
EPS operation signal	R			T			
EPS 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

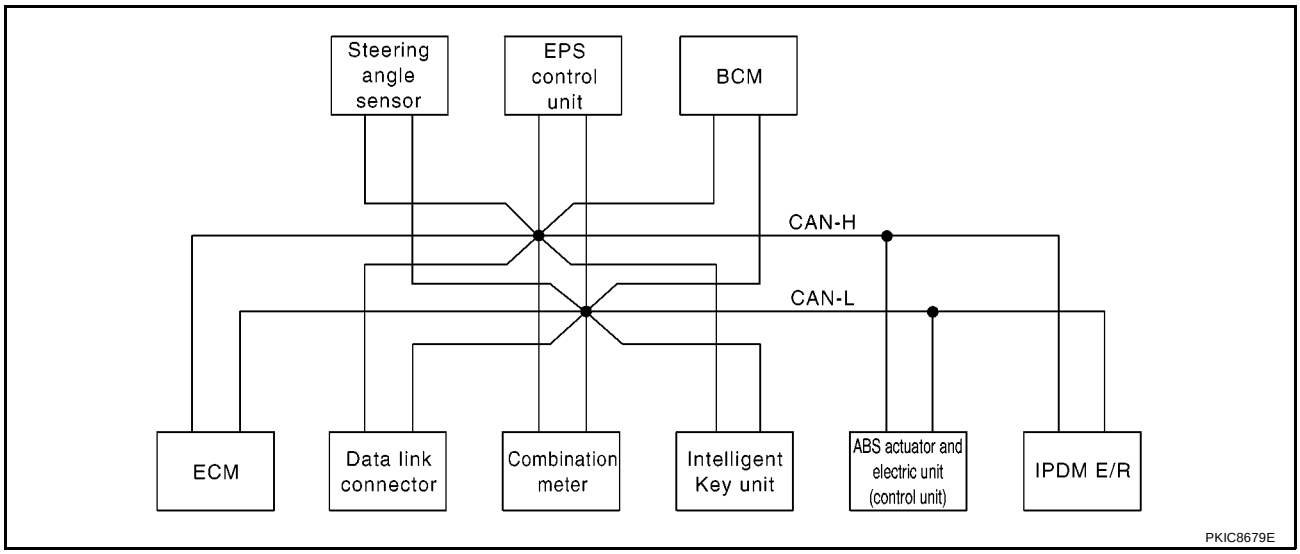
TYPE 3/TYPE 4

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	

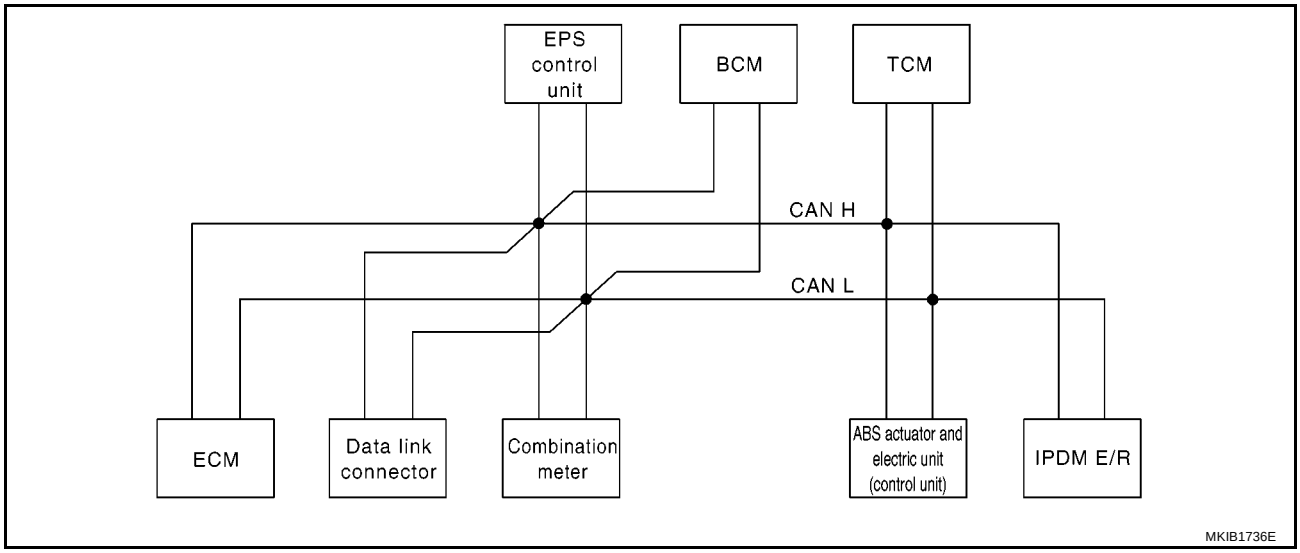
Signals	ECM	Combination meter	Intelligent Key unit*	Steering angle sensor	EPS control unit	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
Vehicle speed signal	R	R			R		T	
	R	T	R		R	R		
Buzzer output signal		R				T		
		R	T					
Door lock/unlock request signal			T			R		
KEY indicator signal		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

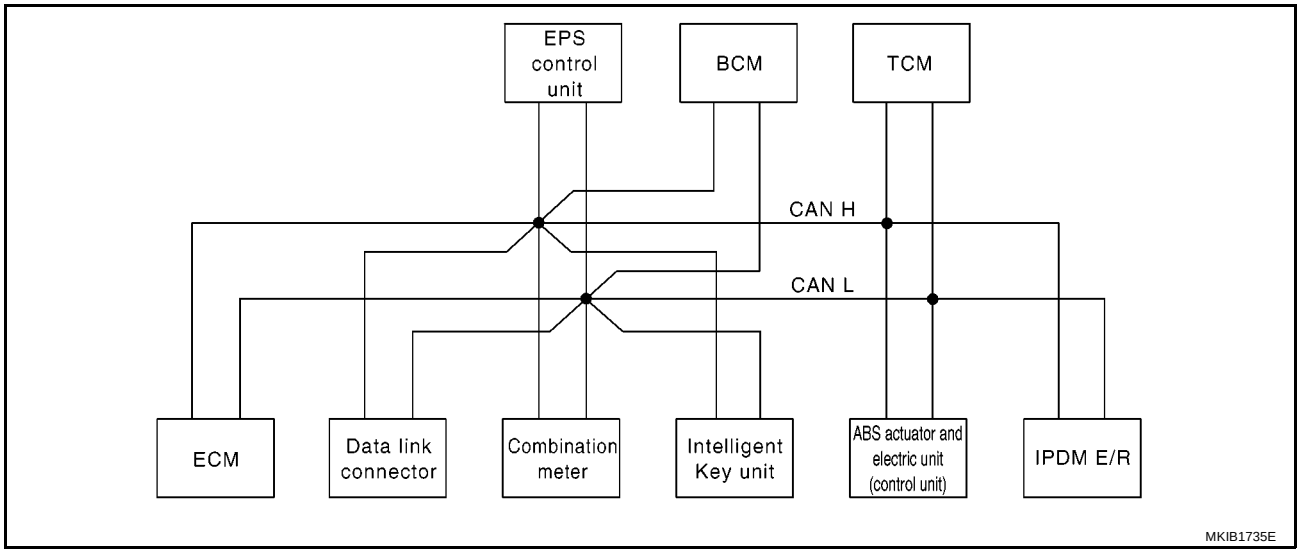
TYPE 5/TYPE 6

System diagram

- Type 5



- Type 6



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	Combi-nation meter	Intelli-gent 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						

Signals	ECM	Combi-nation meter	Intelli-gent 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

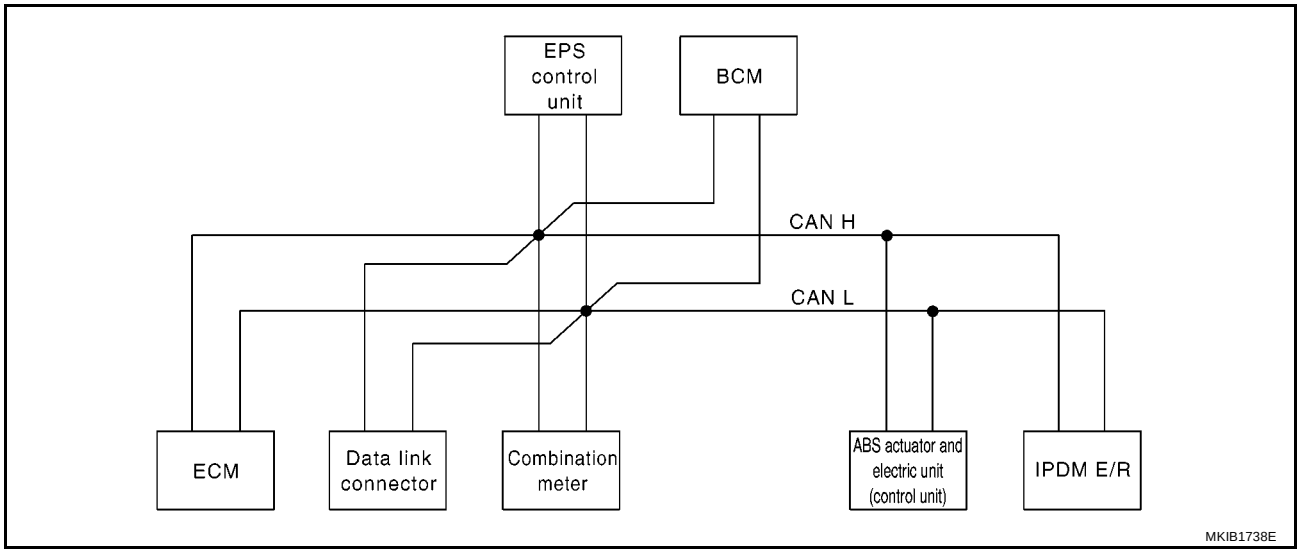
Signals	ECM	Combi-nation meter	Intelli-gent Key unit*	EPS control unit	BCM	ABS actuator and electric unit (control unit)	TCM	IPDM E/R
Oil pressure switch signal		R						T
Rear window defogger control signal	R							T

*: with Intelligent Key system model only

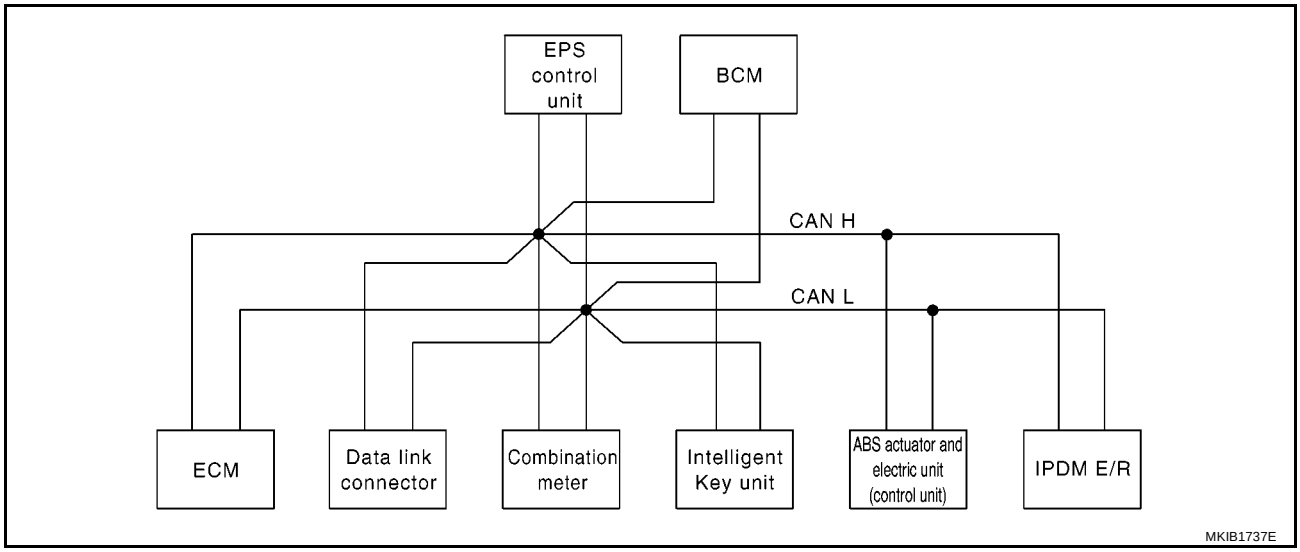
TYPE 7/TYPE 8

System diagram

- Type 7



- Type 8



Input/output signal chart

T: Transmit R: Receive

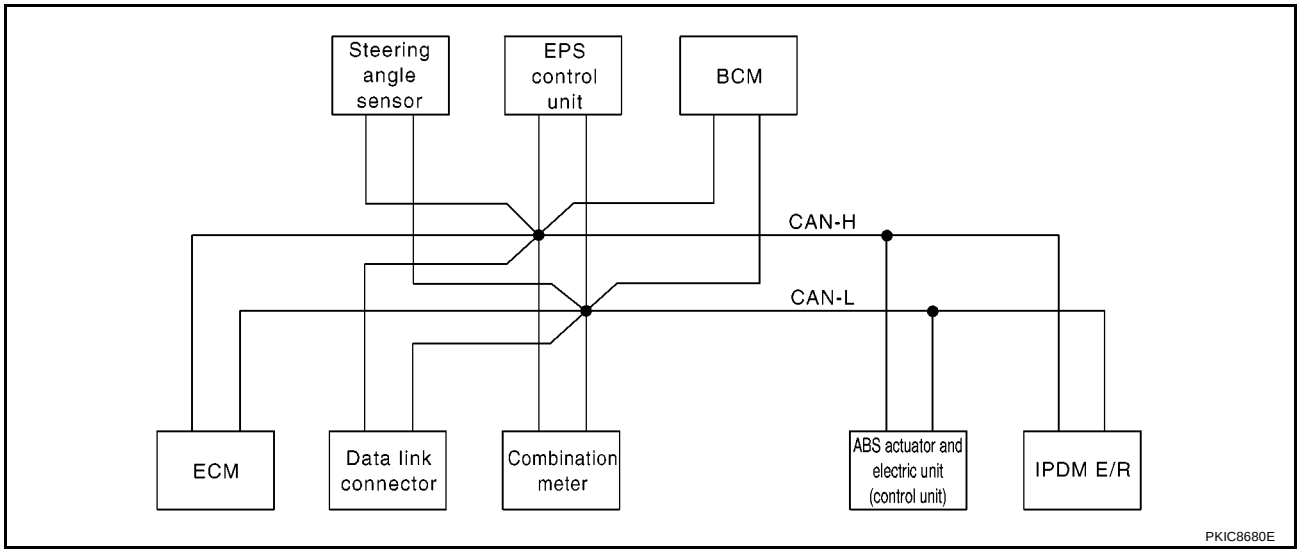
Signals	ECM	Combination meter	Intelligent Key unit*	EPS control unit	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	T						R
Cooling fan speed request signal	T						R
Engine coolant temperature signal	T	R			R		
Engine coolant temperature warning lamp signal	T	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

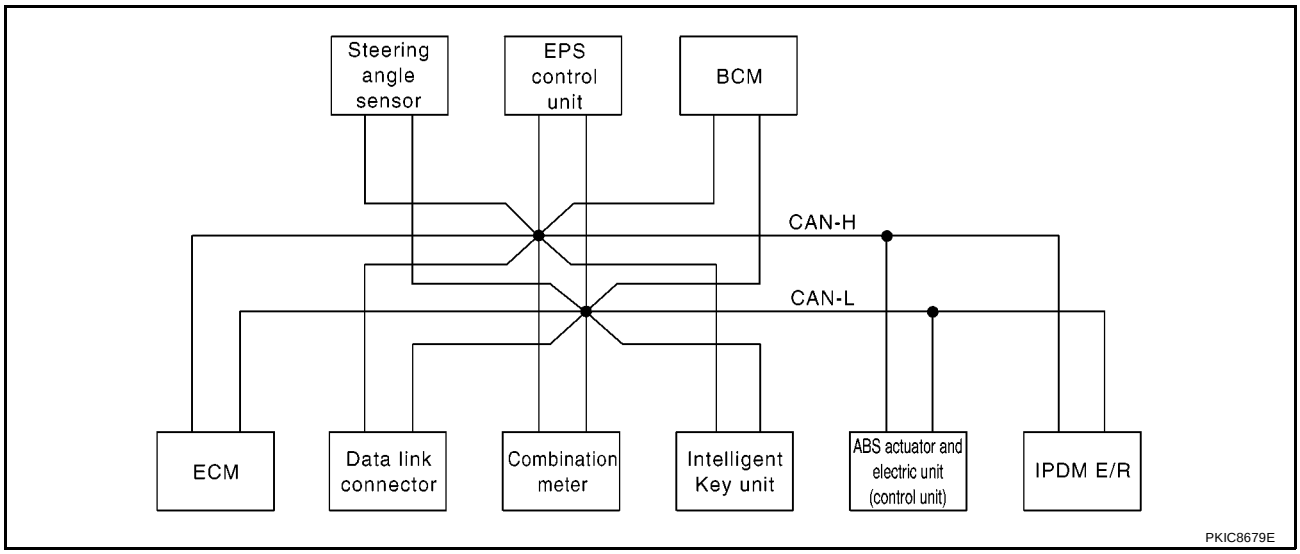
TYPE 9/TYPE 10

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						

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" .

Check Sheet

BKS001IX

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

Check sheet table

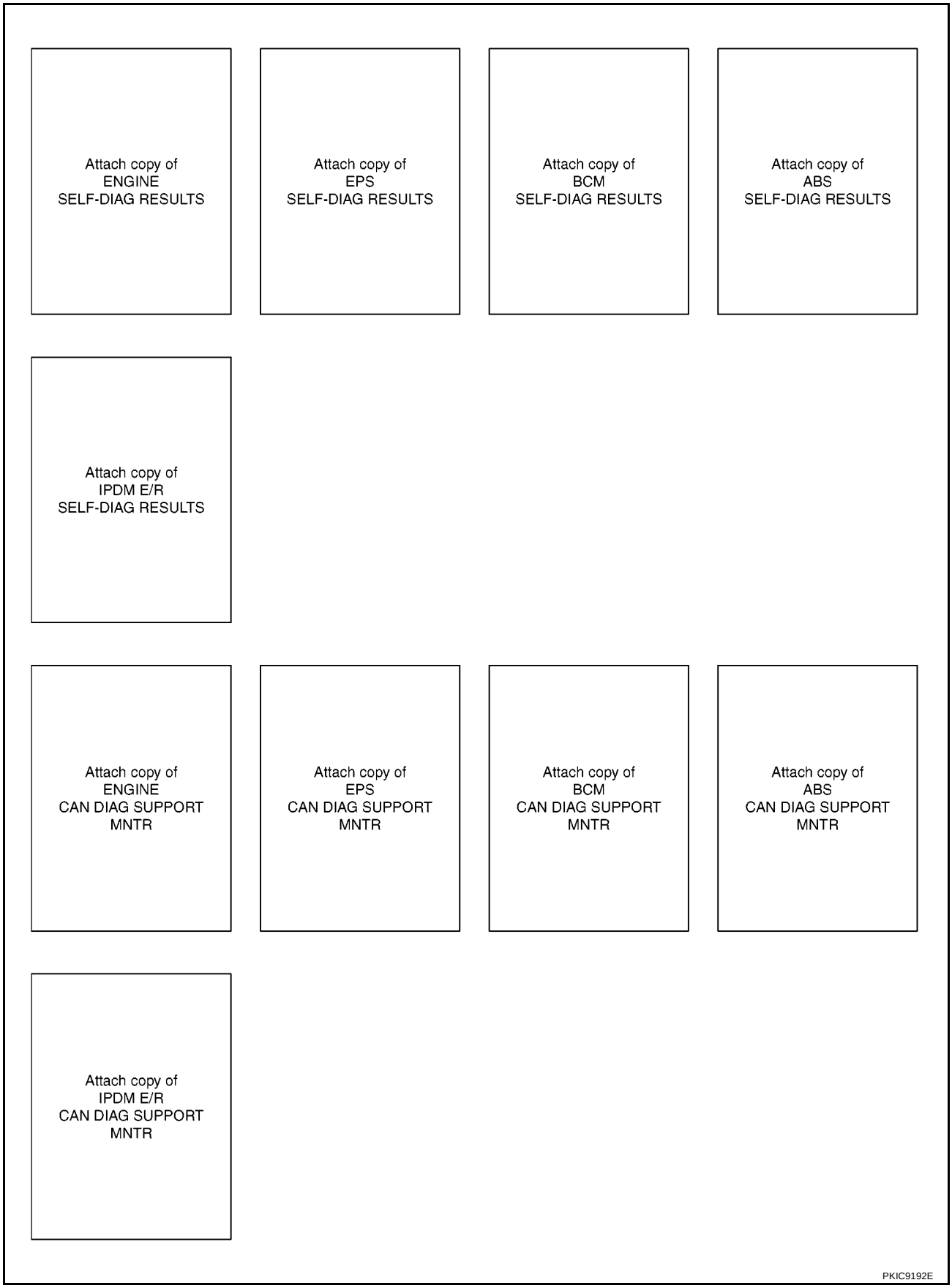
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	METER /M&A	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
EPS	No indication	—	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
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ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
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BCM
CAN DIAG SUPPORT
MNTR
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ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC9192E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

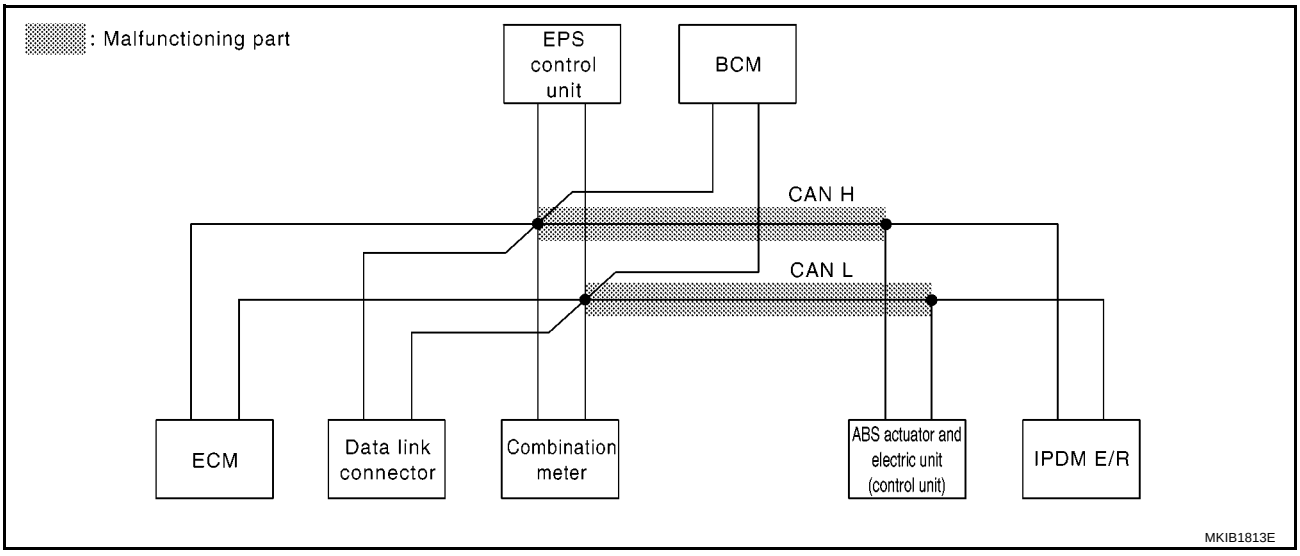
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	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) ✓	—

PKIC9271E



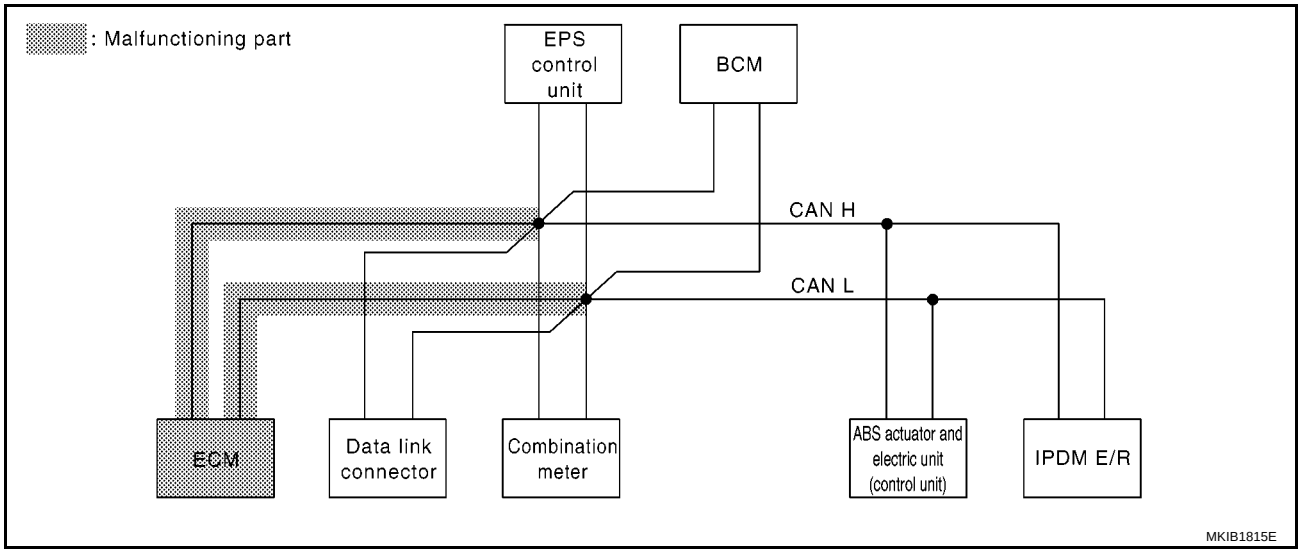
MKIB1813E

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) ✓	—

PKIC9272E



MKIB1815E

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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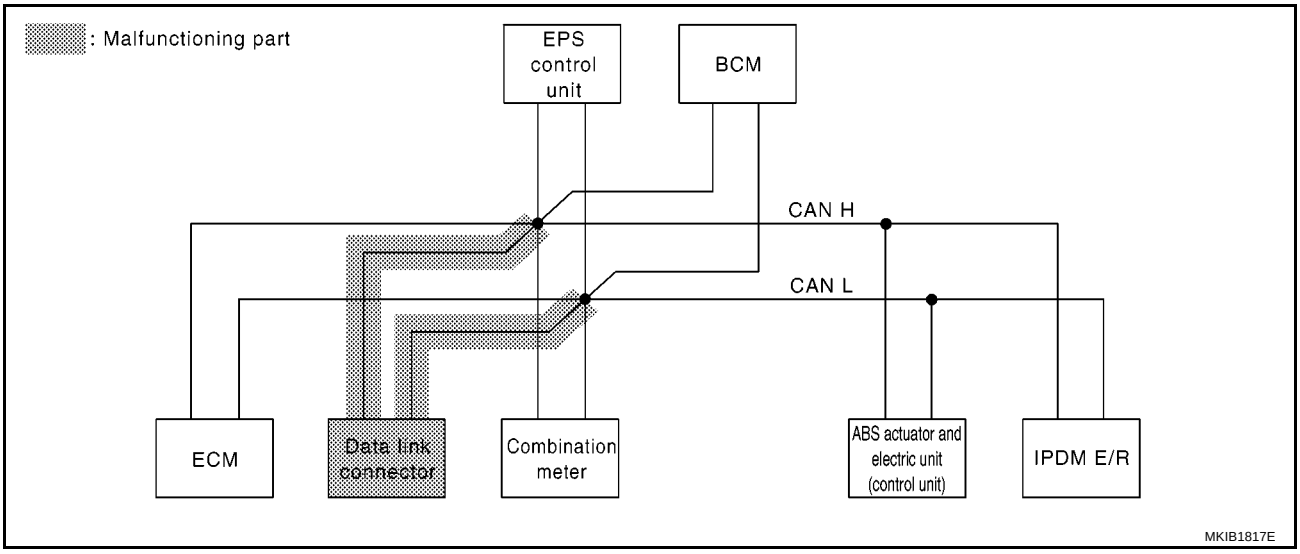

MKIB1817E

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	—	—	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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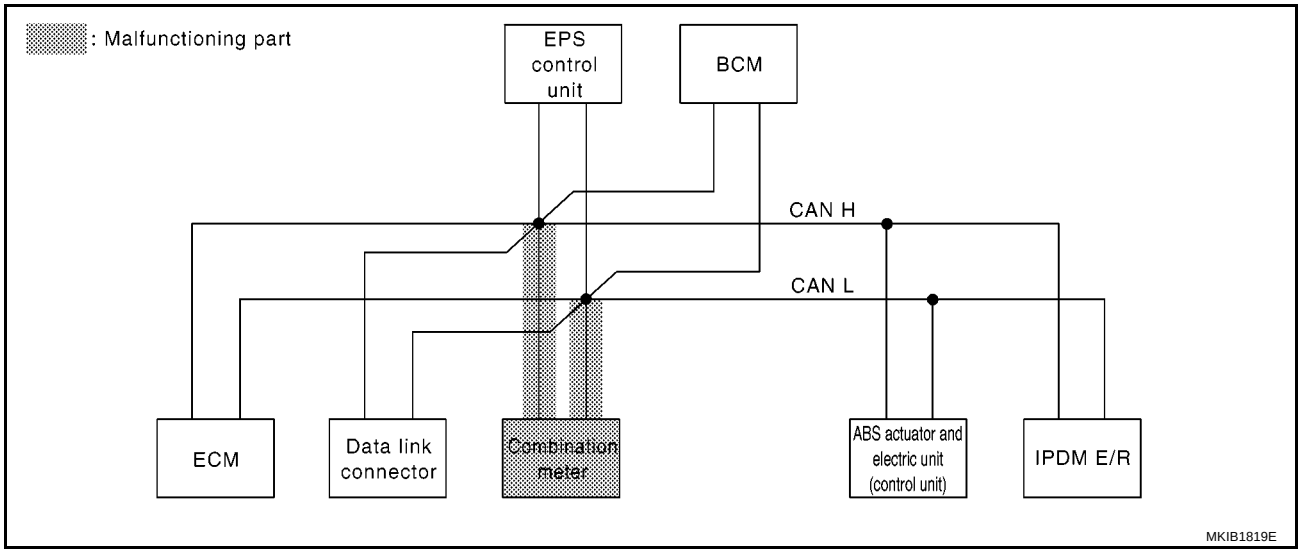


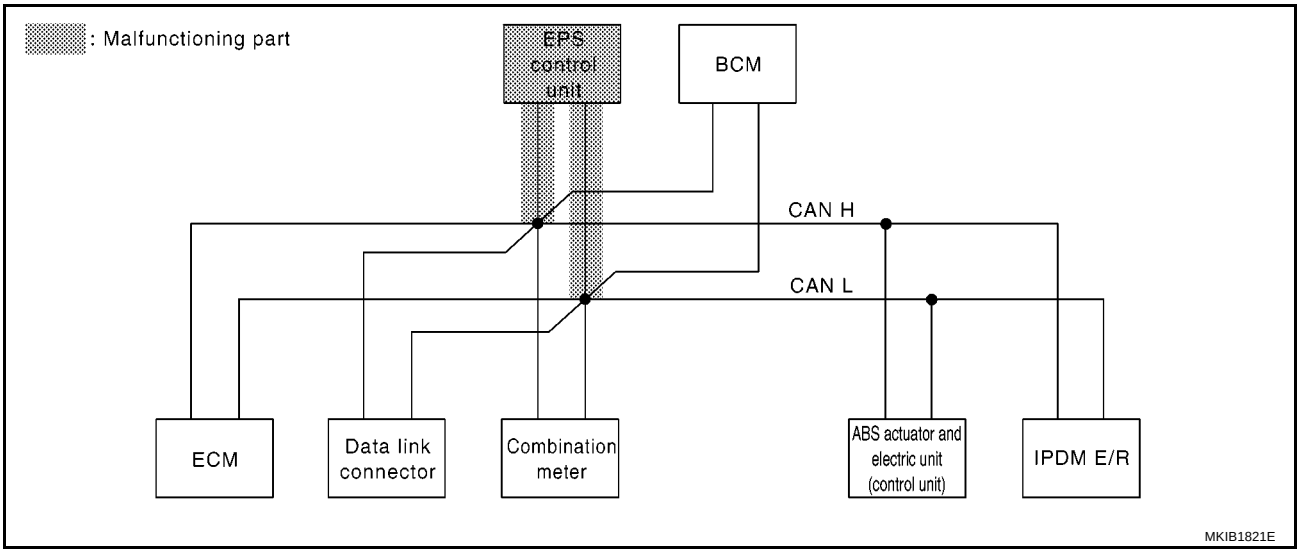
MKIB1819E

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	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)	—

PKIC9275E



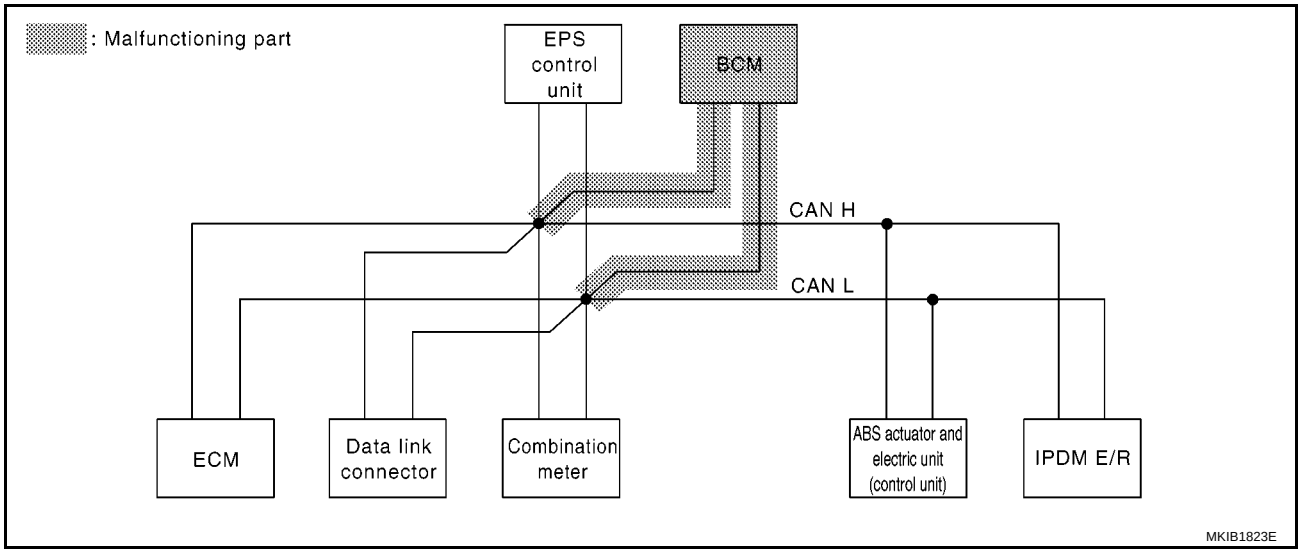
MKIB1821E

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	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)	—

PKIC9276E

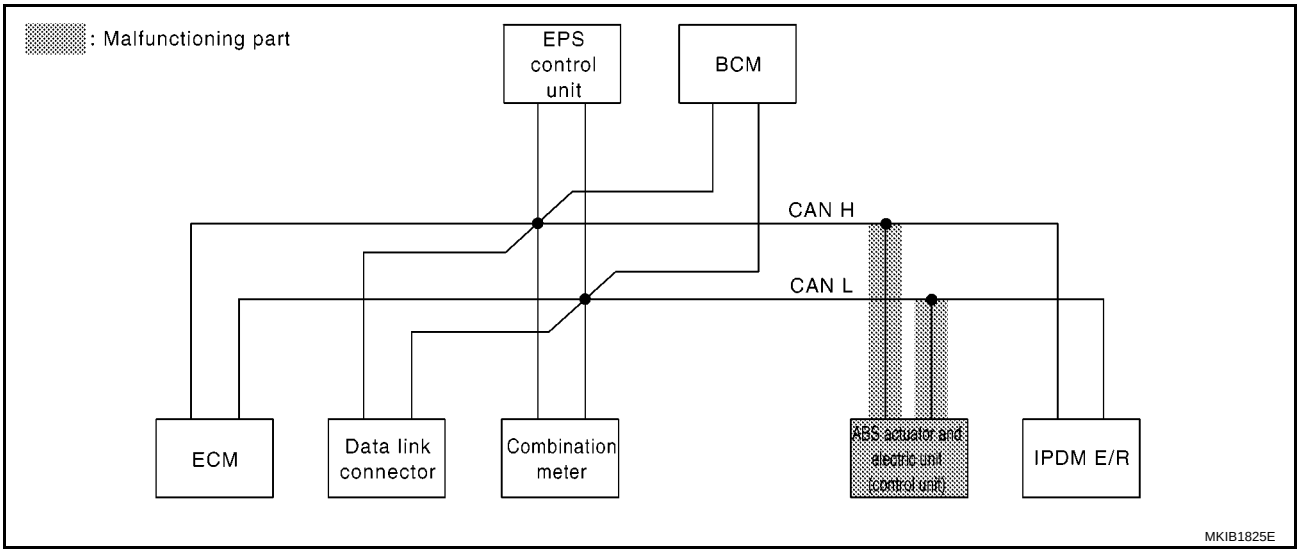


Case 7

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)	—

PKIC9277E



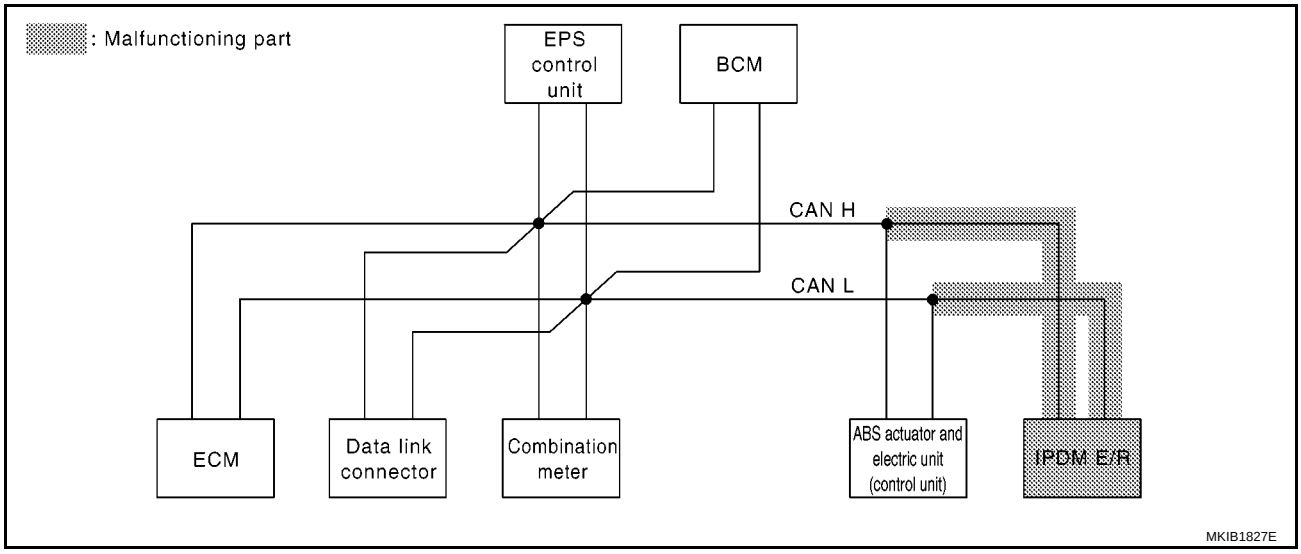
MKIB1825E

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



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)	—

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

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	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

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 —

BKS001J0

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

Check Sheet

BKS001LF

Refer to LAN-52, "Check Sheet" .

Check Sheet

BKS001J1

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

Check sheet table

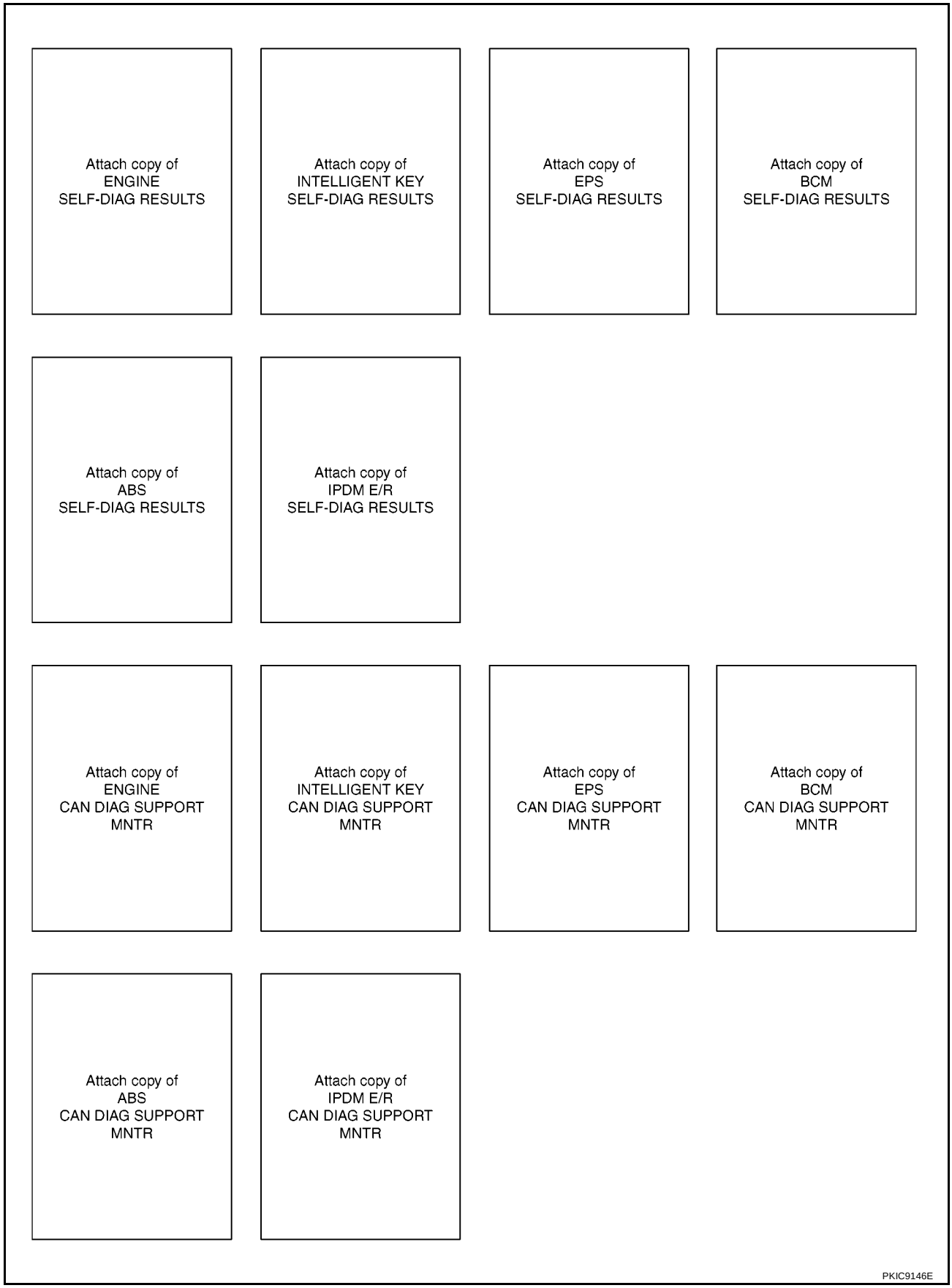
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT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


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
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MNTR
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ABS
CAN DIAG SUPPORT
MNTR
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IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC9146E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

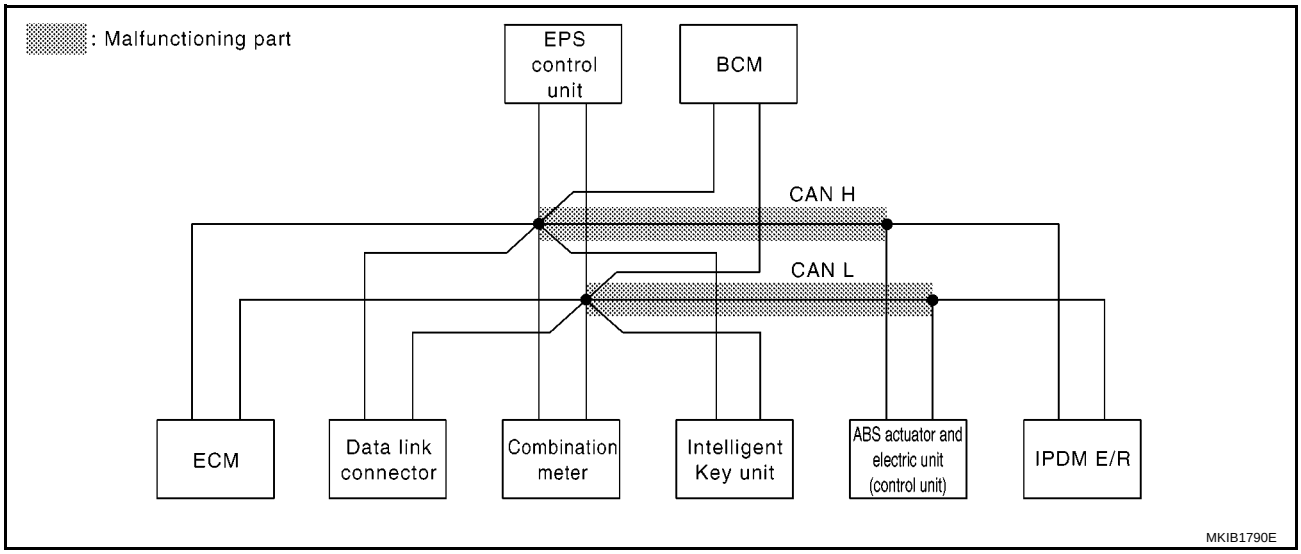
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	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)	—

PKIC9284E



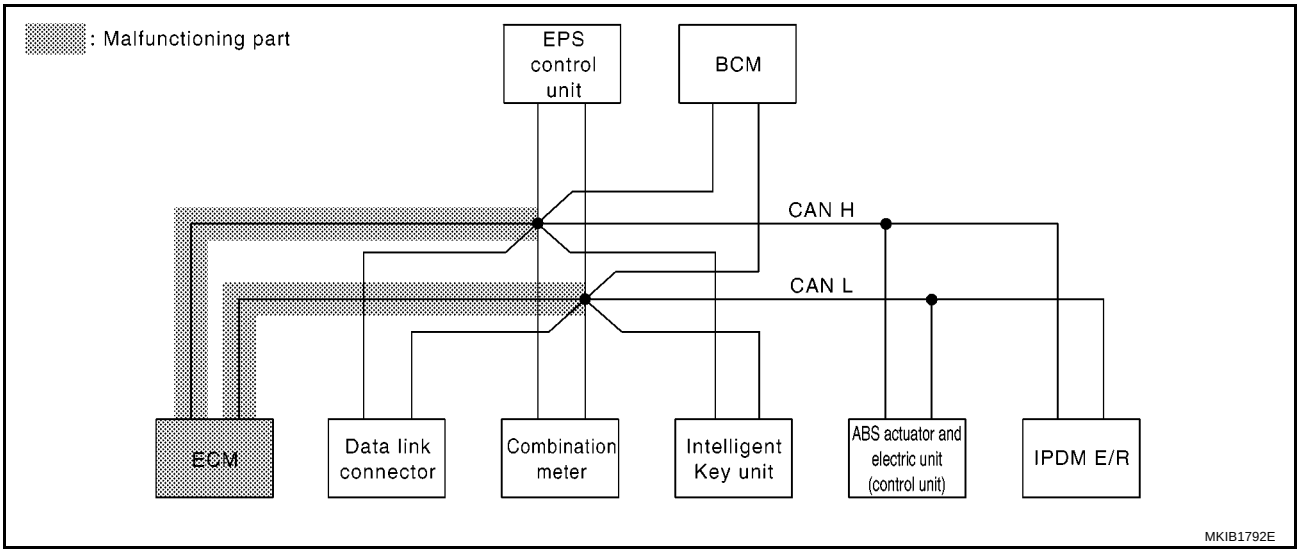
MKIB1790E

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



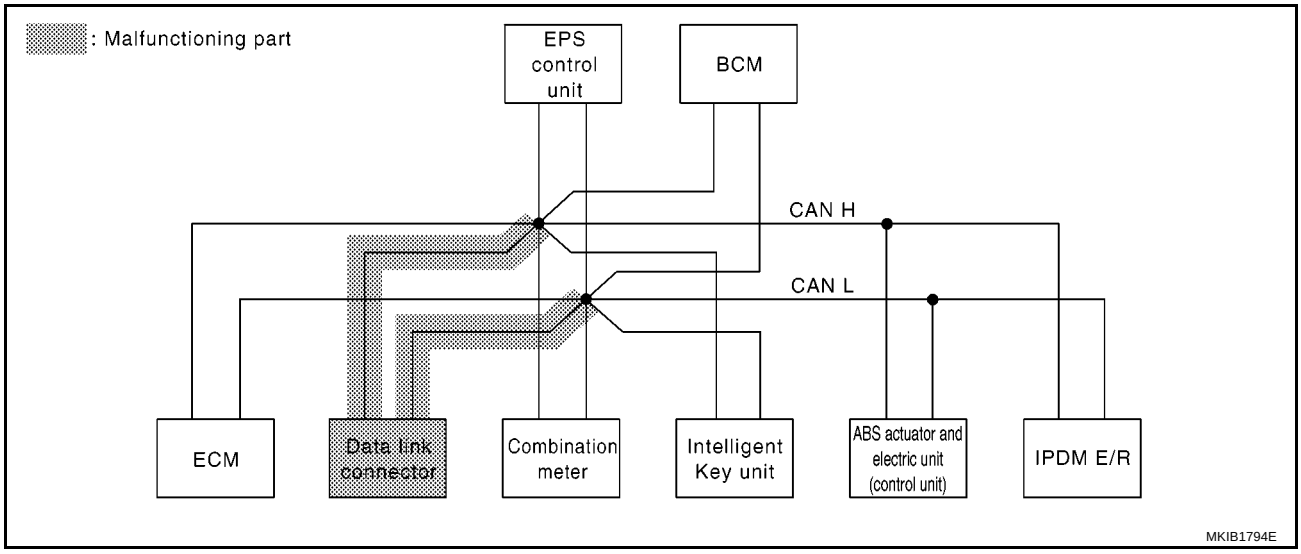
MKIB1792E

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	✓	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
EPS	✓	—	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	✓	—	UNKWN	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	✓	NG	—	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	✓	—	UNKWN	UNKWN	—	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC9286E



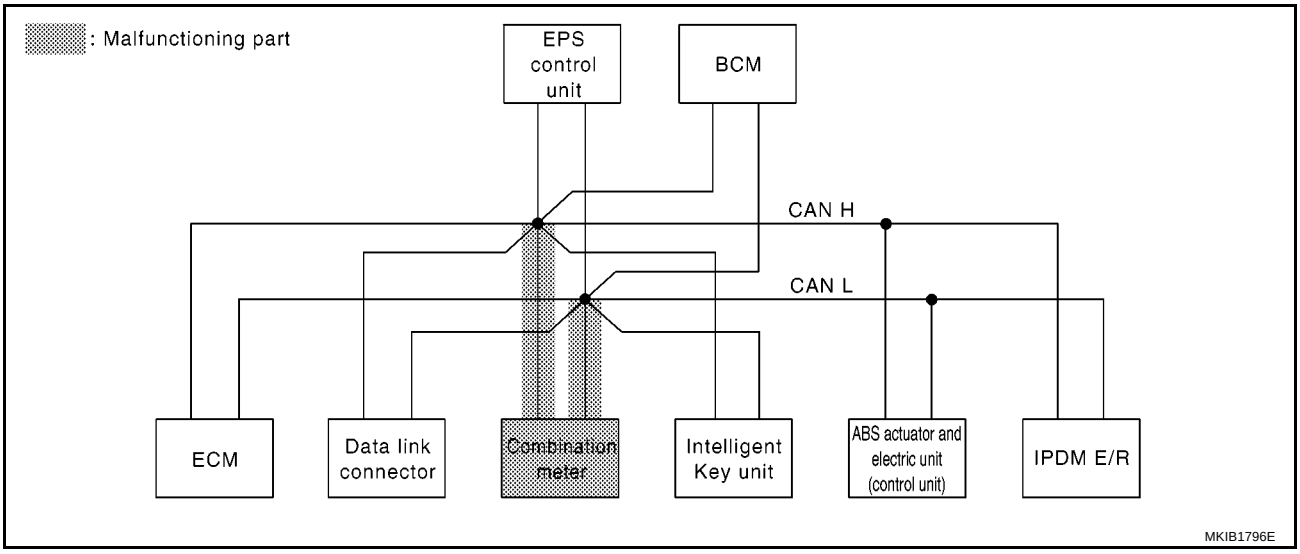
MKIB1794E

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 ✓	—	—	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)	—

PKIC9287E

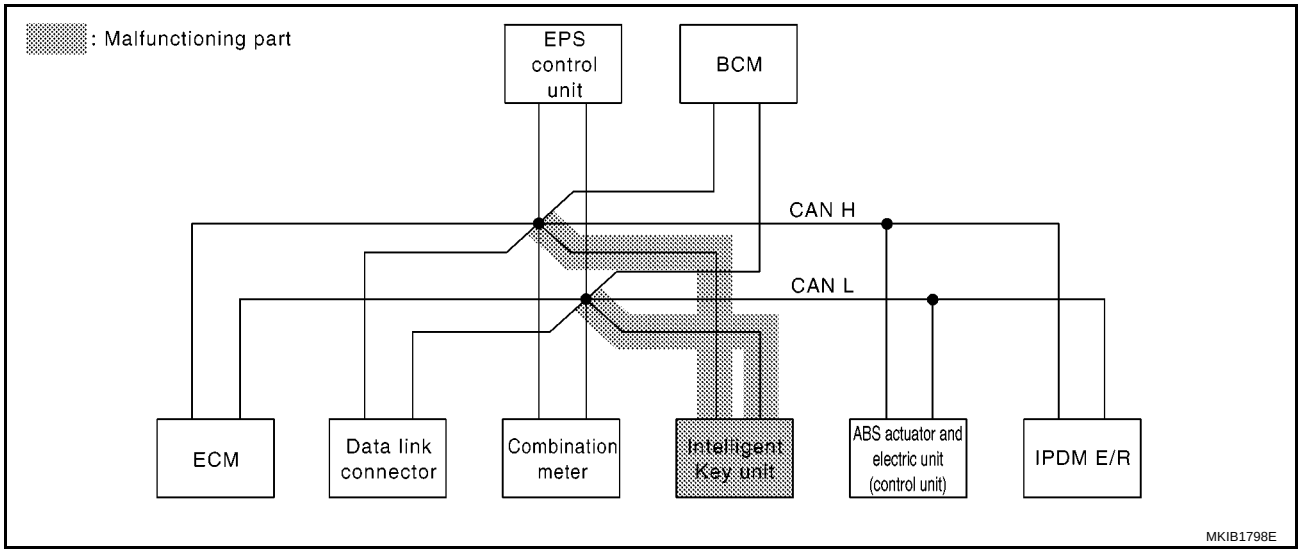


Case 5

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



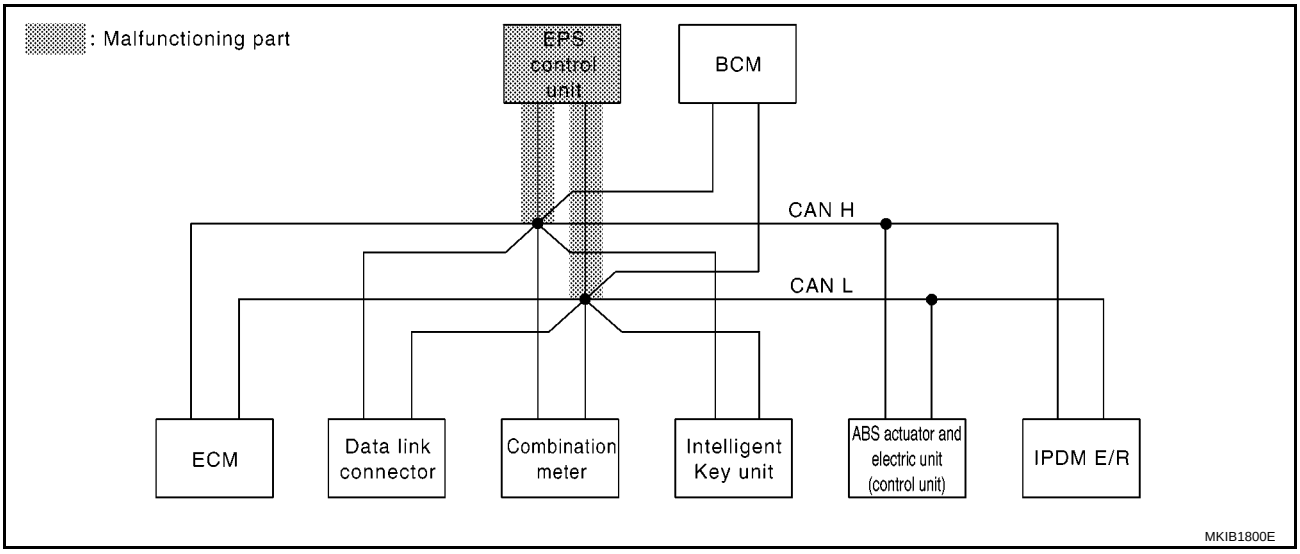
MKIB1798E

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



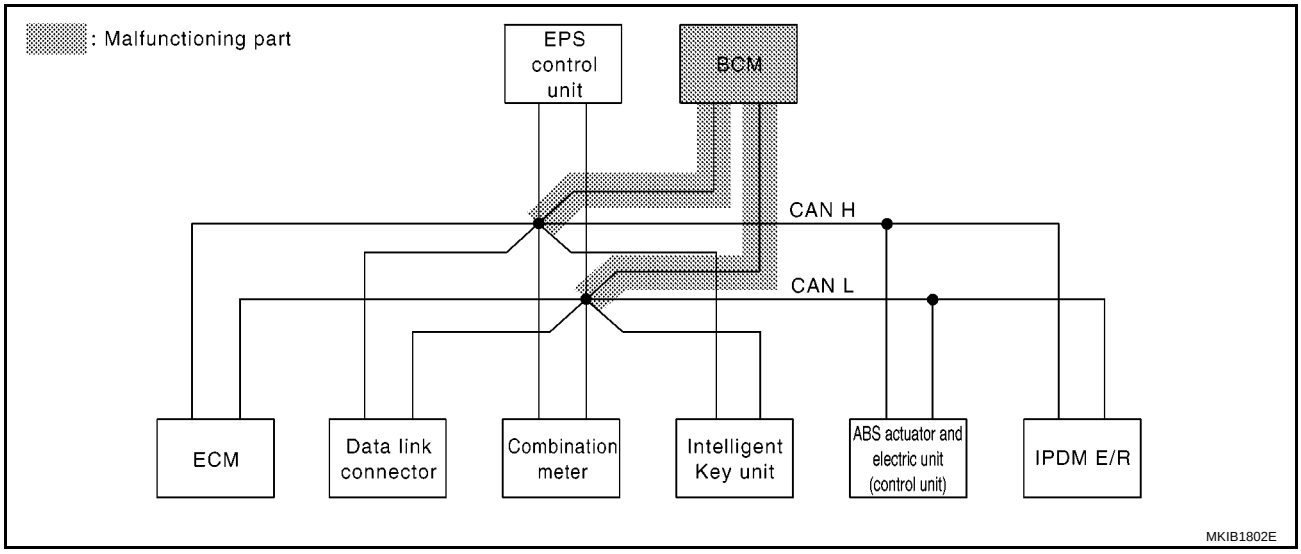
MKIB1800E

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	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)	—

PKIC9290E



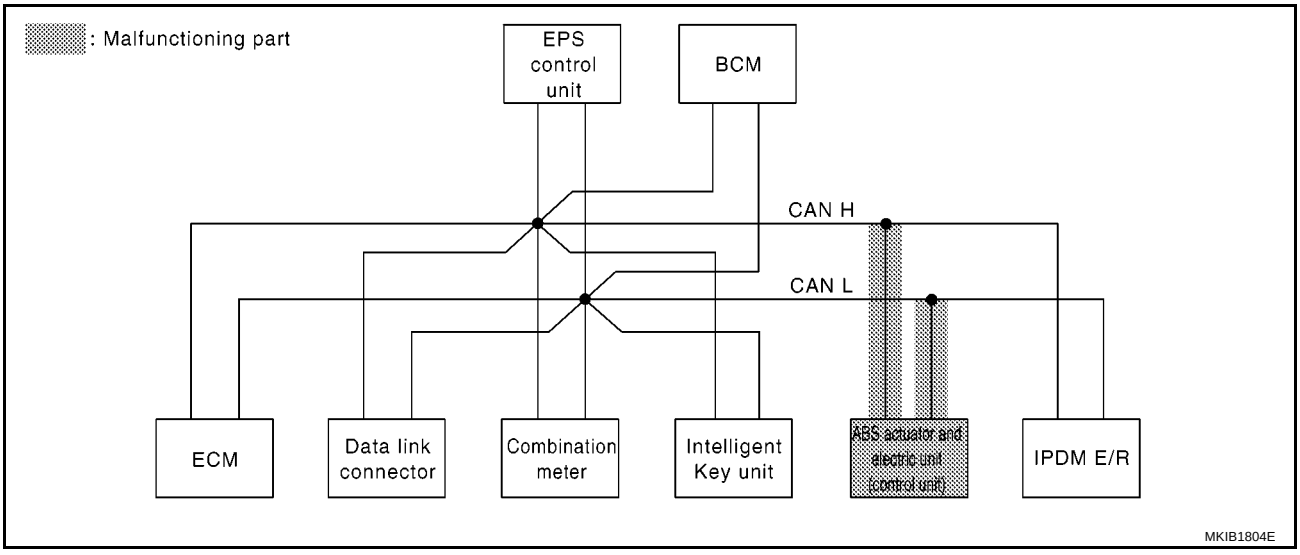
MKIB1802E

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



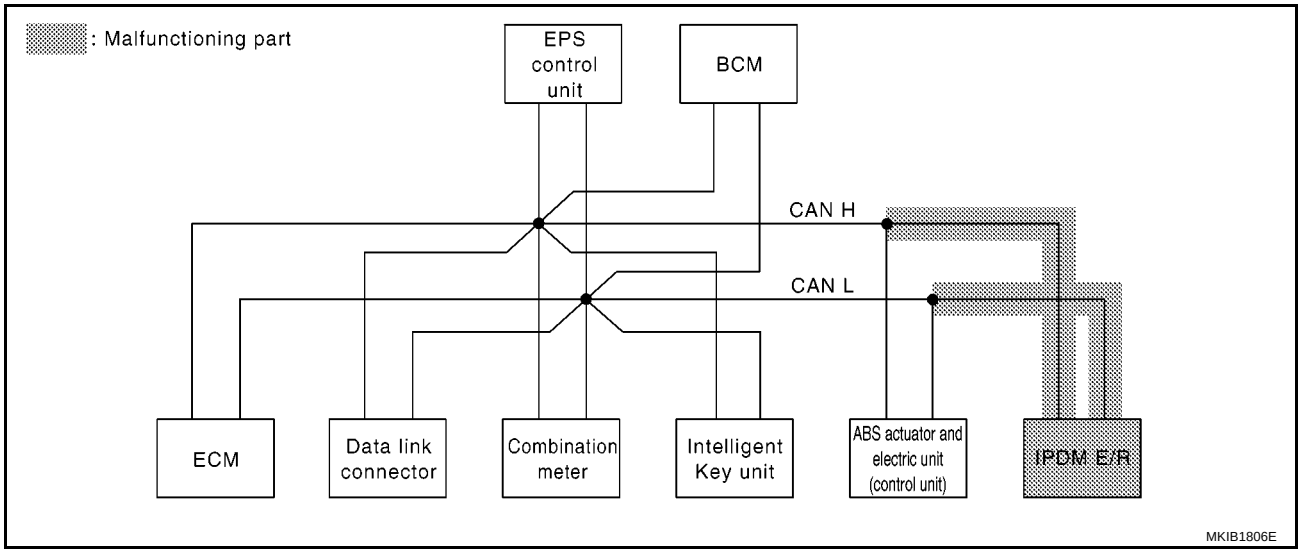
MKIB1804E

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	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) ✓	—

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) ✓	—

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

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

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" .

Check Sheet

BKS001J5

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

Check sheet table

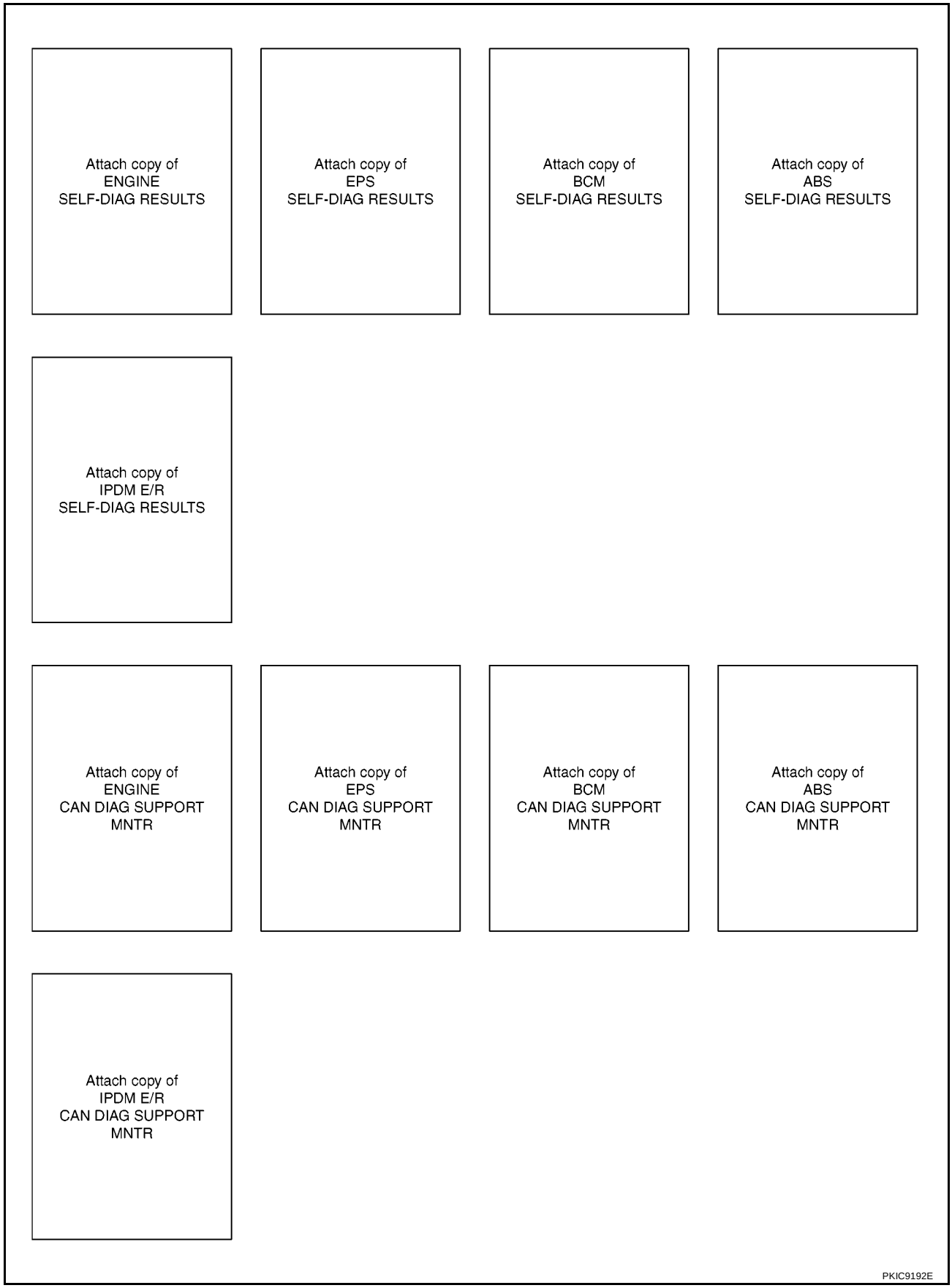
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	STRG	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
EPS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


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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CAN DIAG SUPPORT
MNTR
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ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC9192E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

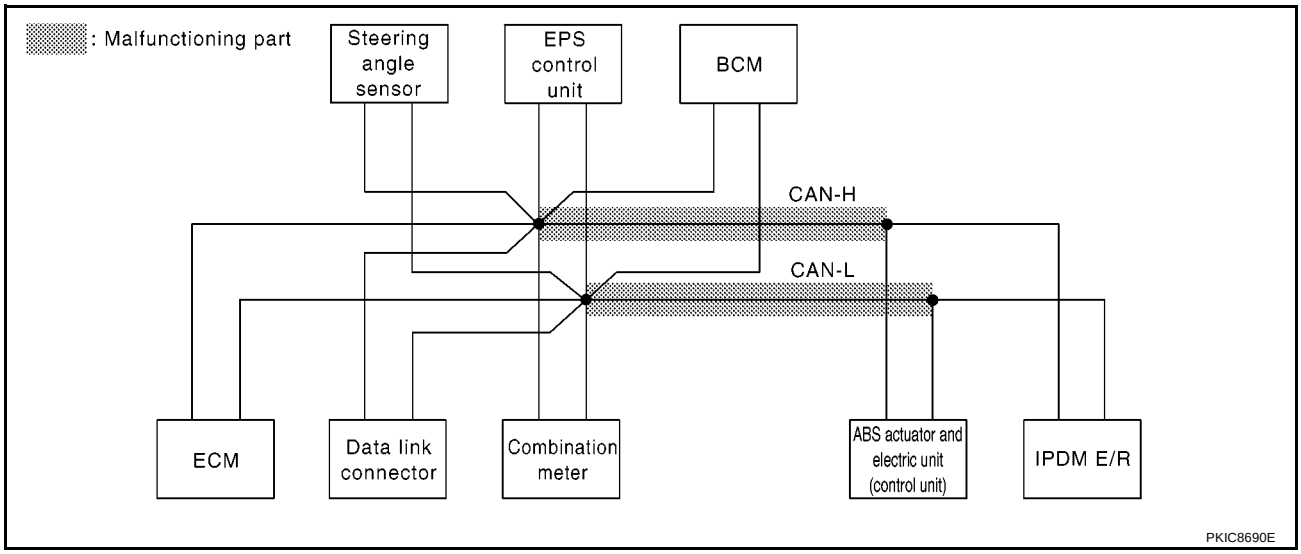
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	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) ✓	—

PKIC9296E

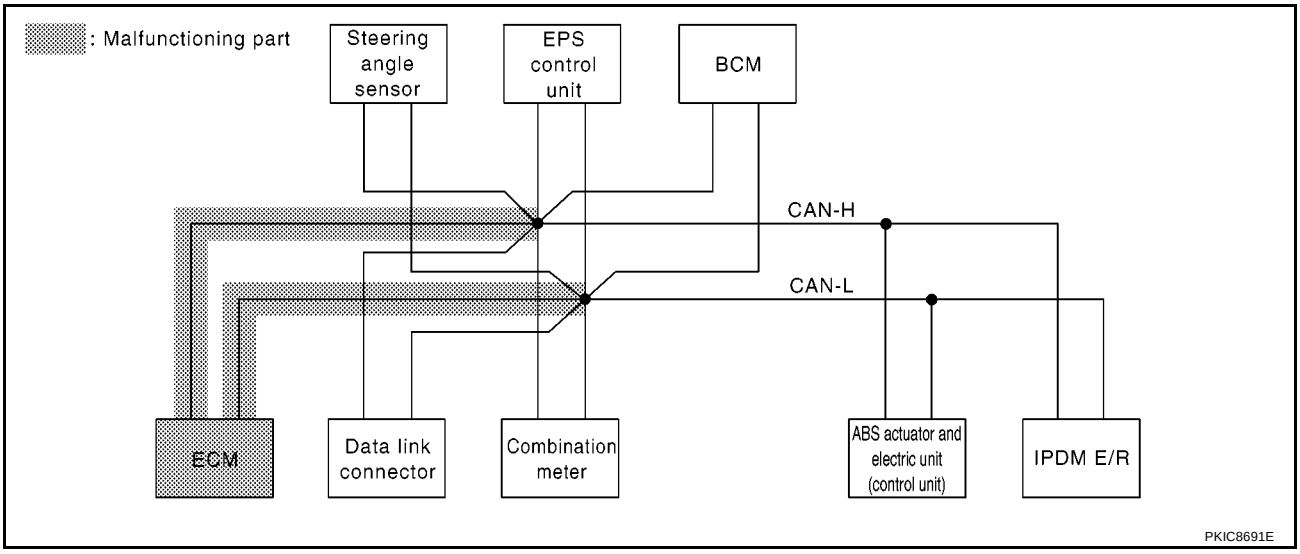


Case 2

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



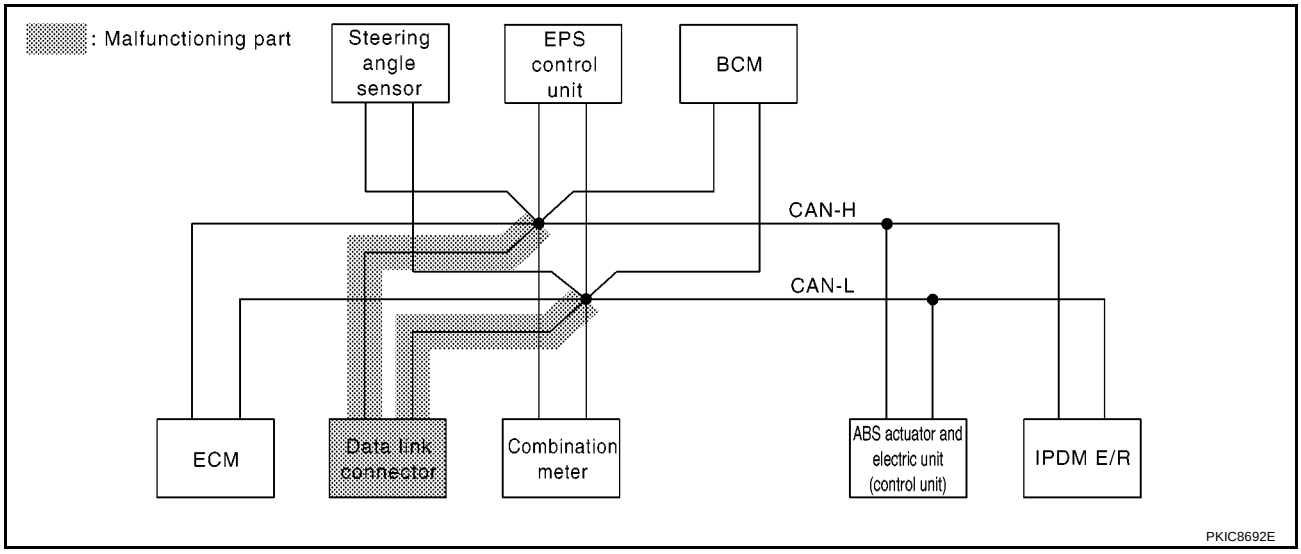
PKIC8691E

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	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



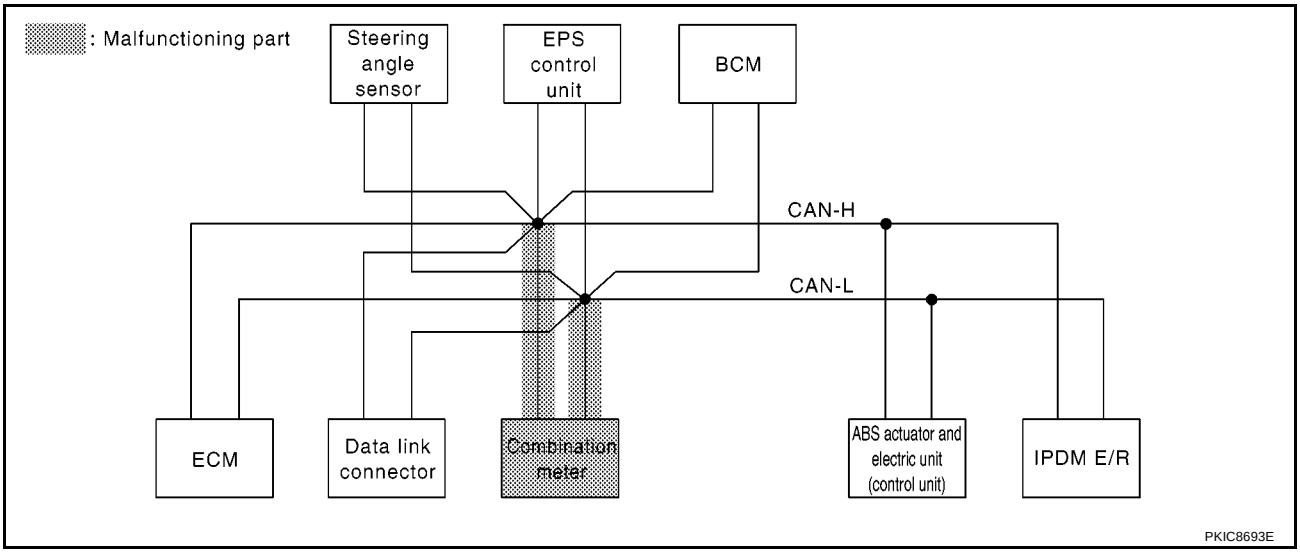
PKIC8692E

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	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)	—

PKIC9299E



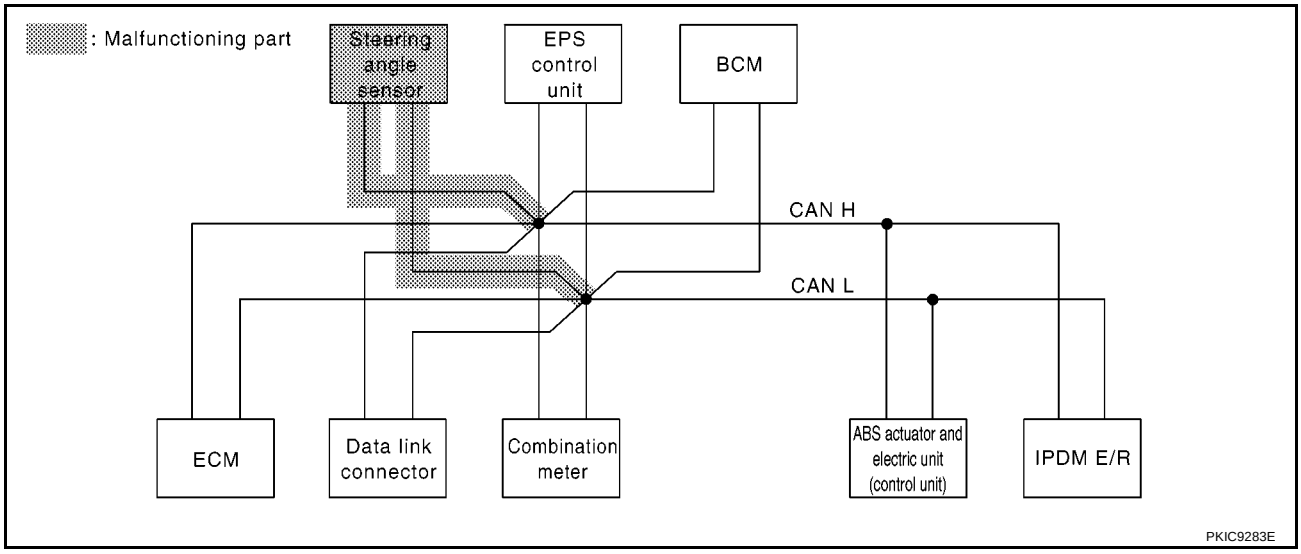
PKIC8693E

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	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)	—

PKIC9300E



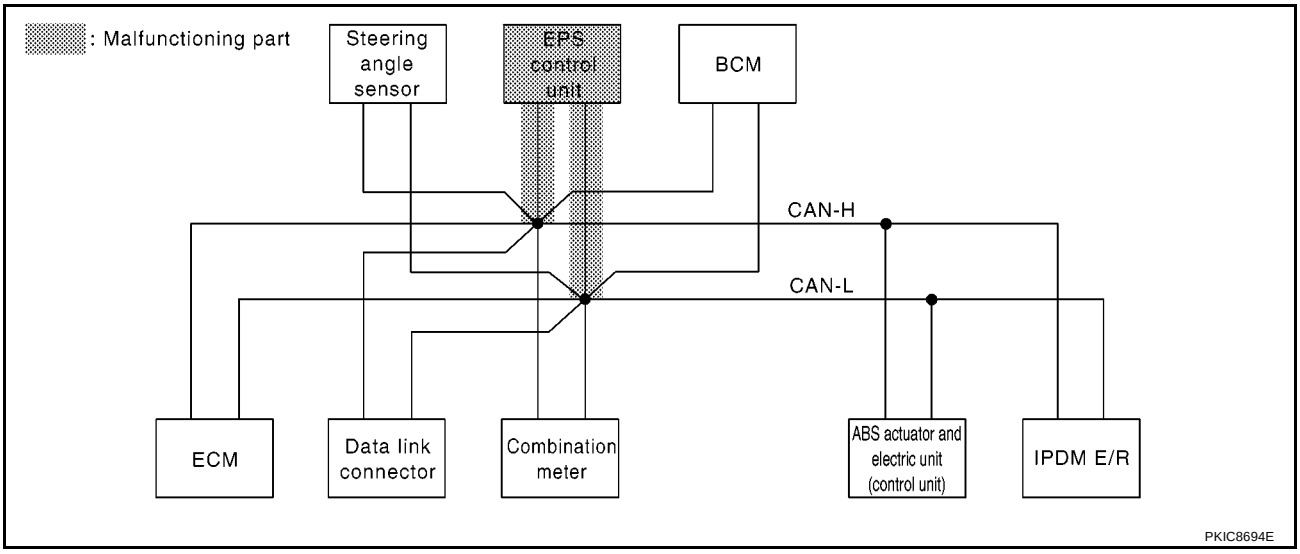
PKIC9283E

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



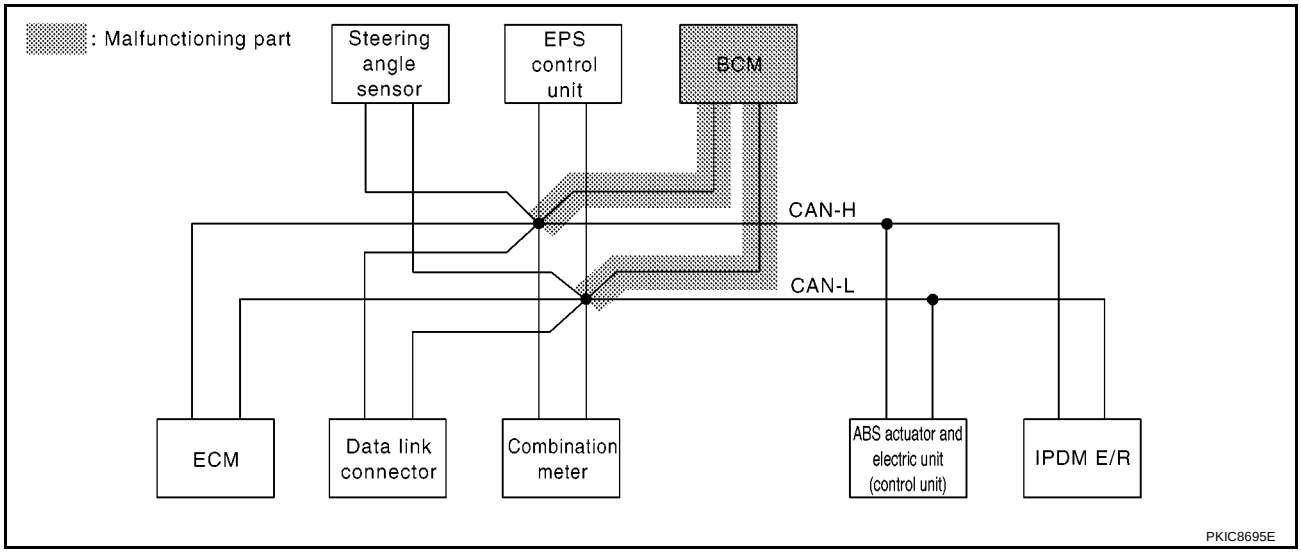
PKIC8694E

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



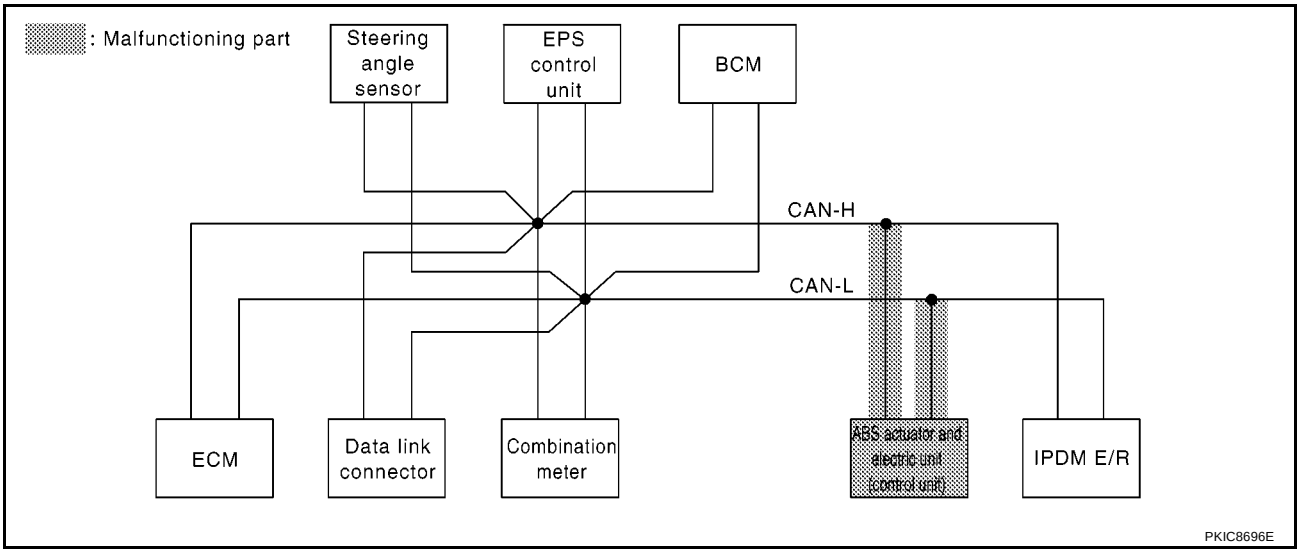
PKIC8695E

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	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)	—

PKIC9303E



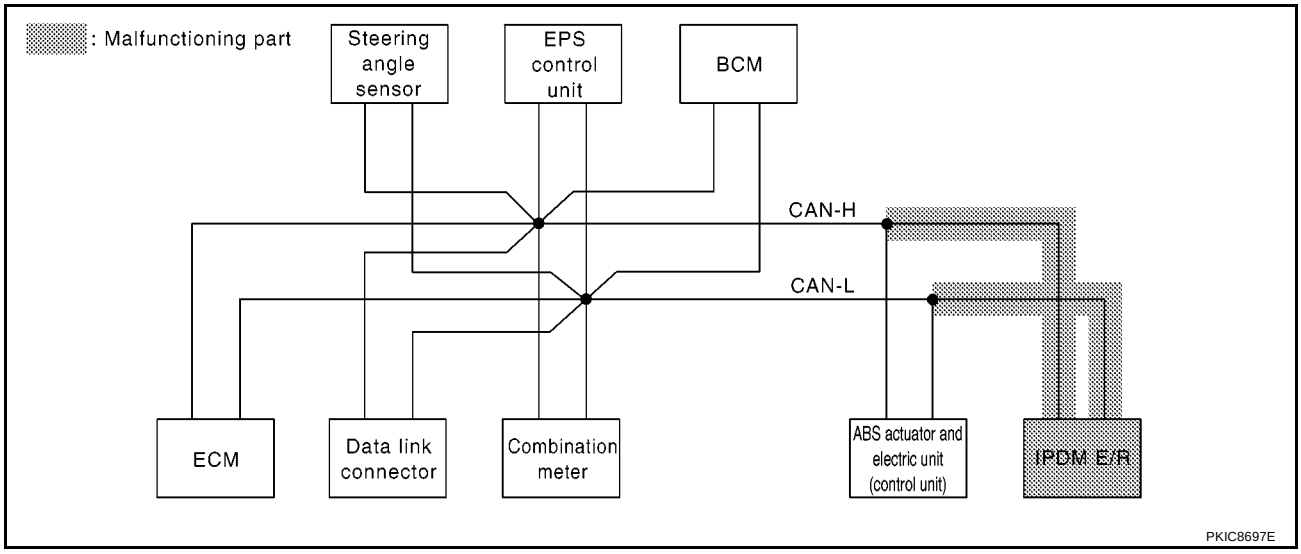
PKIC8696E

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	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) ✓	—

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)	—

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	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)	—

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

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" .

Check Sheet

BKS001J9

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

Check sheet table

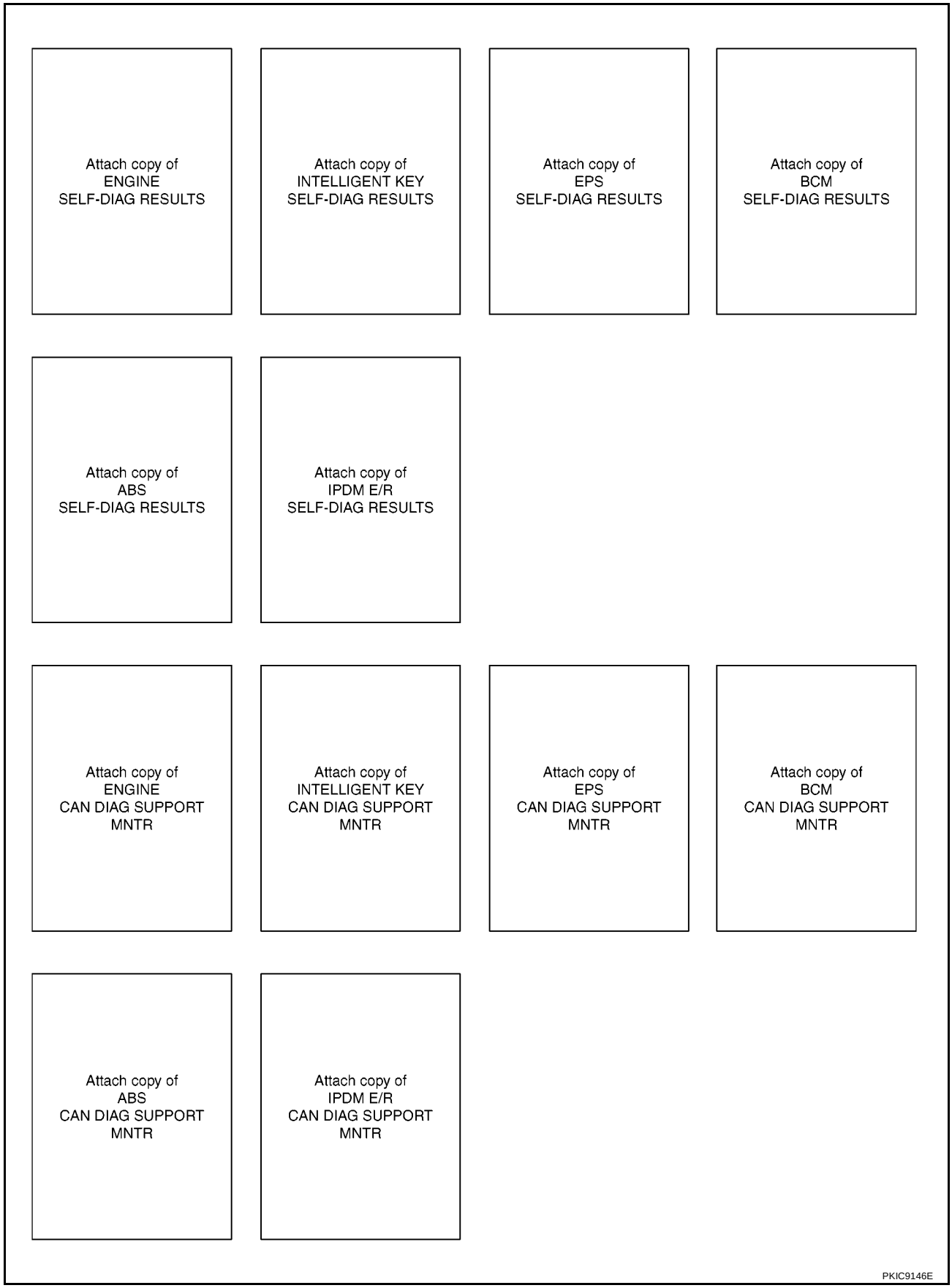
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	METER /M&A	I-KEY	STRG	EPS	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
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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ENGINE
SELF-DIAG RESULTS
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EPS
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BCM
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MNTR
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IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC9146E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

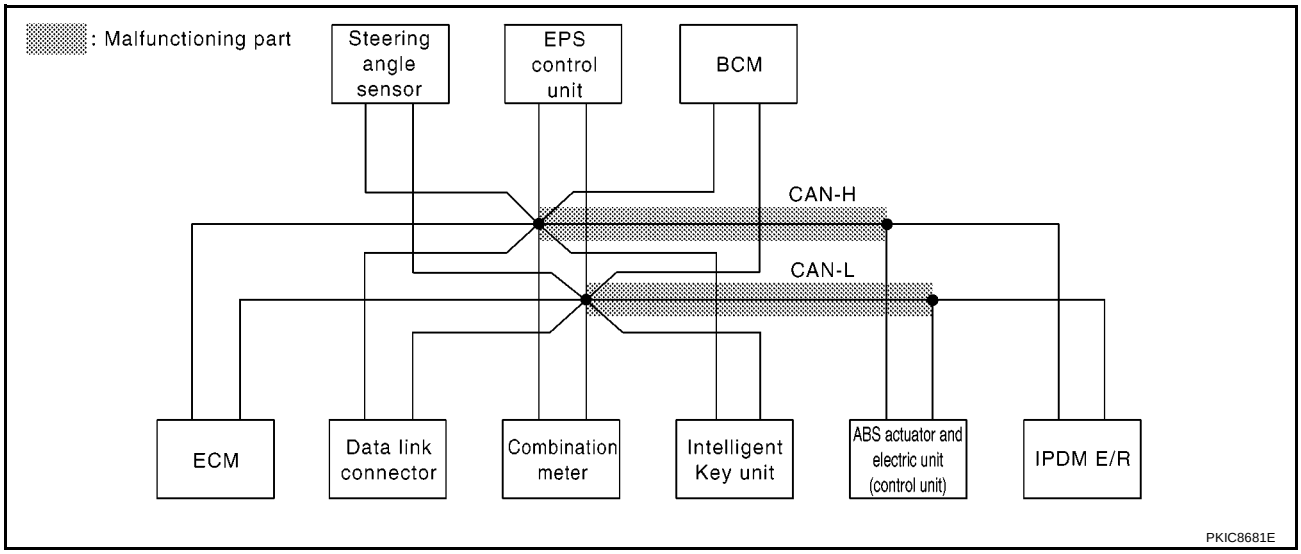
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	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) ✓	—

PKIC9308E



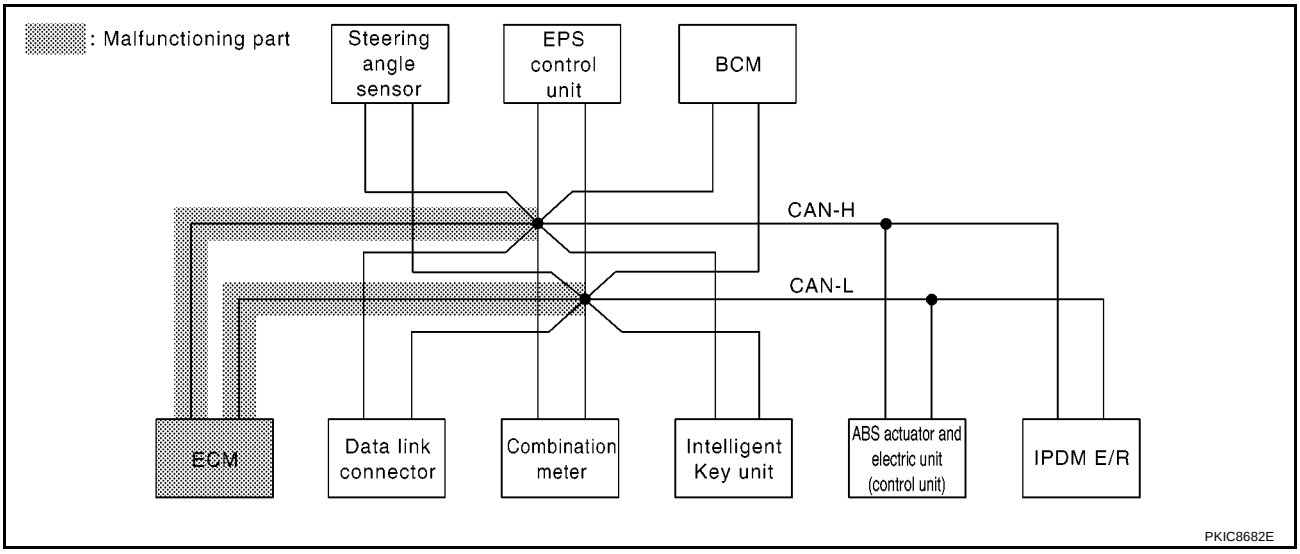
PKIC8681E

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



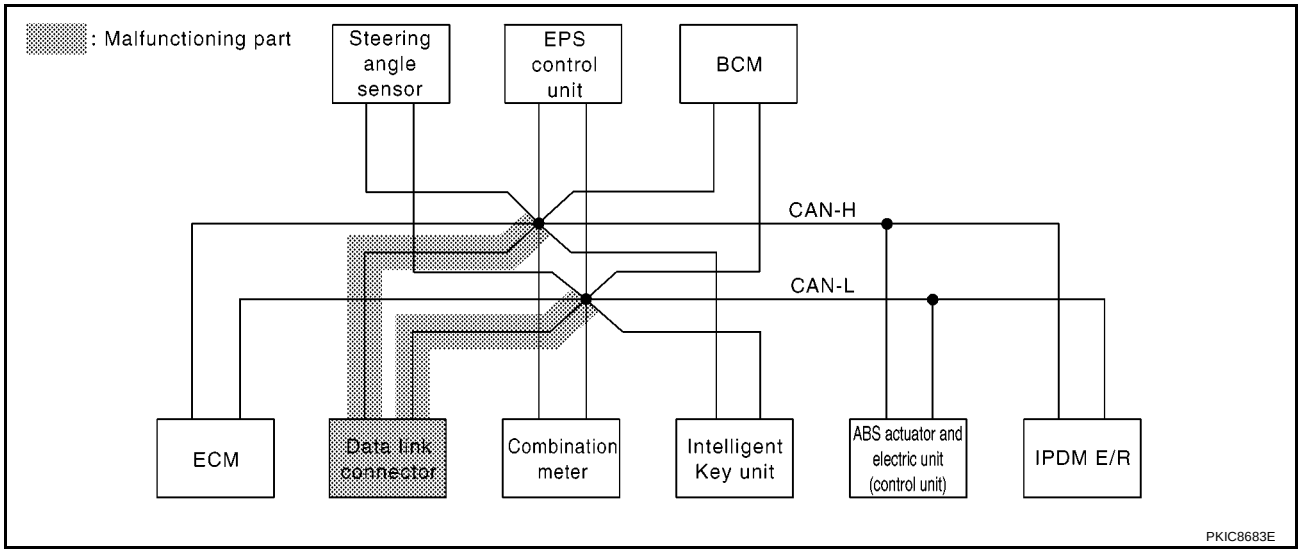
PKIC8682E

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



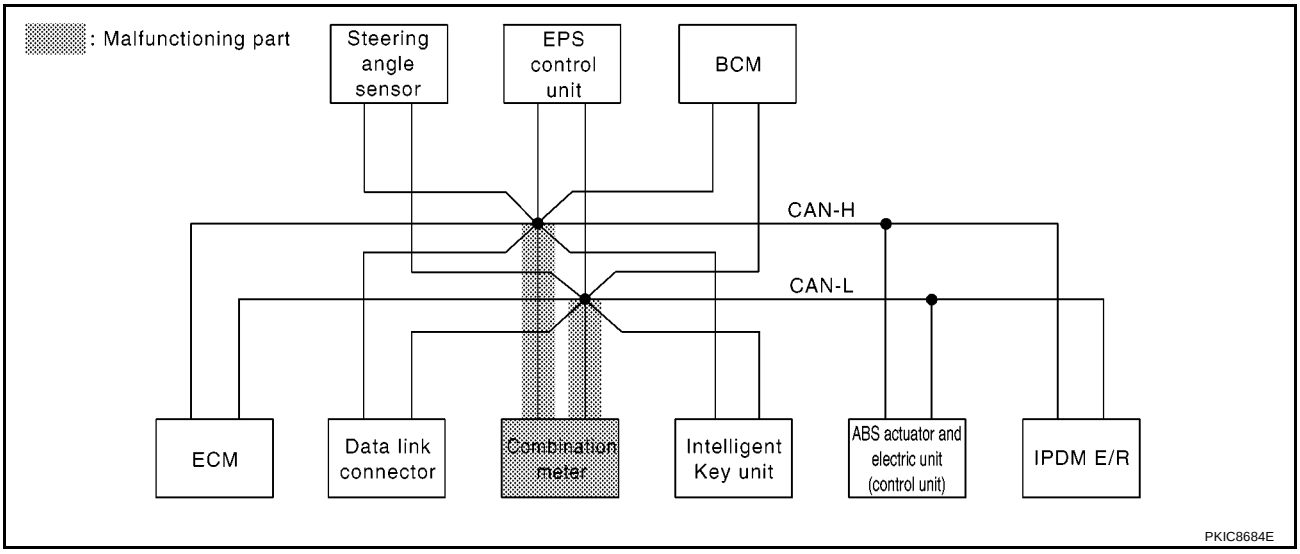
PKIC8683E

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	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)	—

PKIC9311E



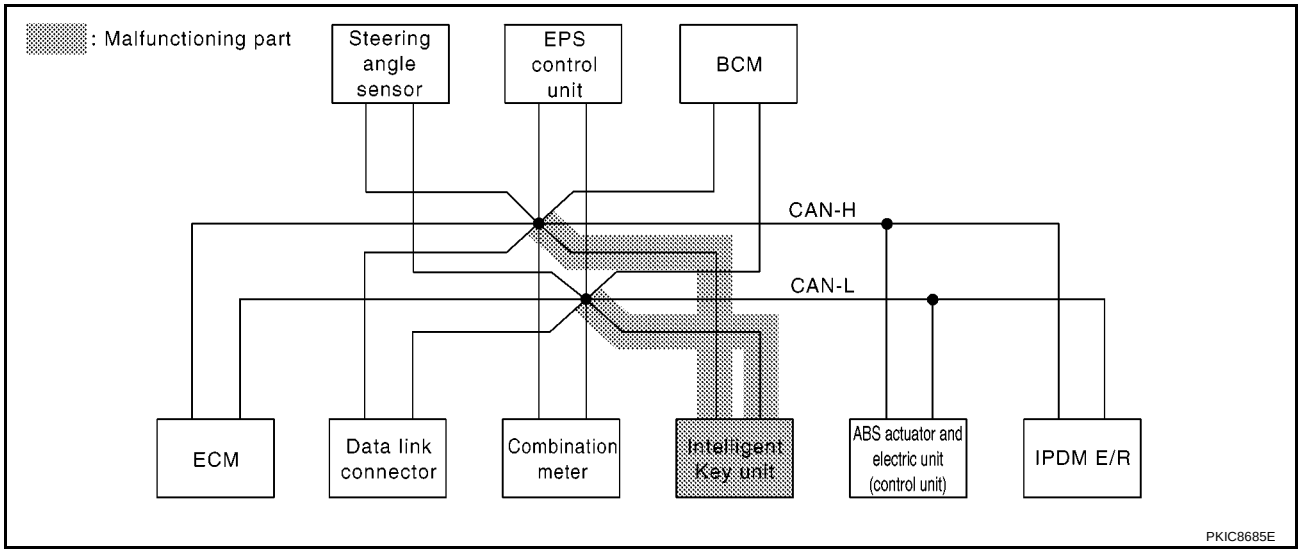
PKIC8684E

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	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



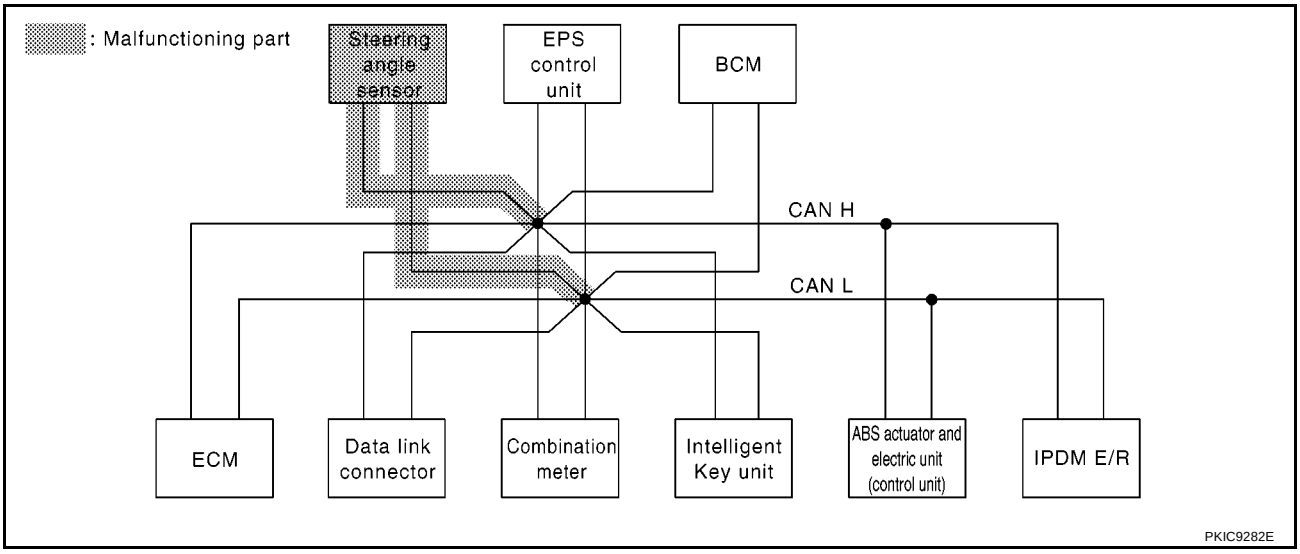
PKIC8685E

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



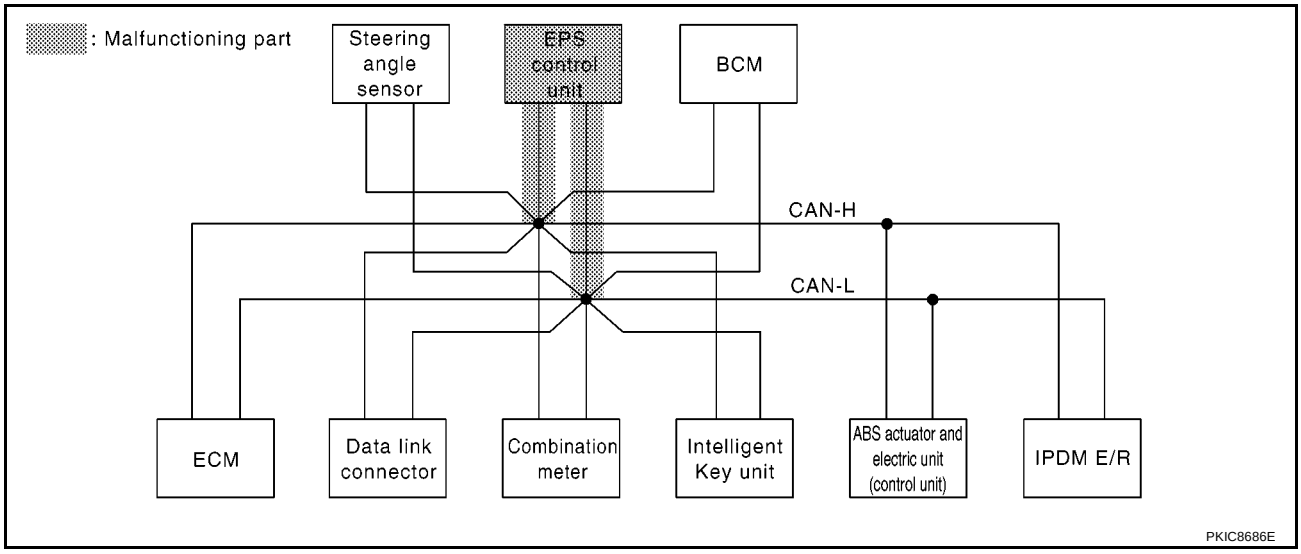
PKIC9282E

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	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



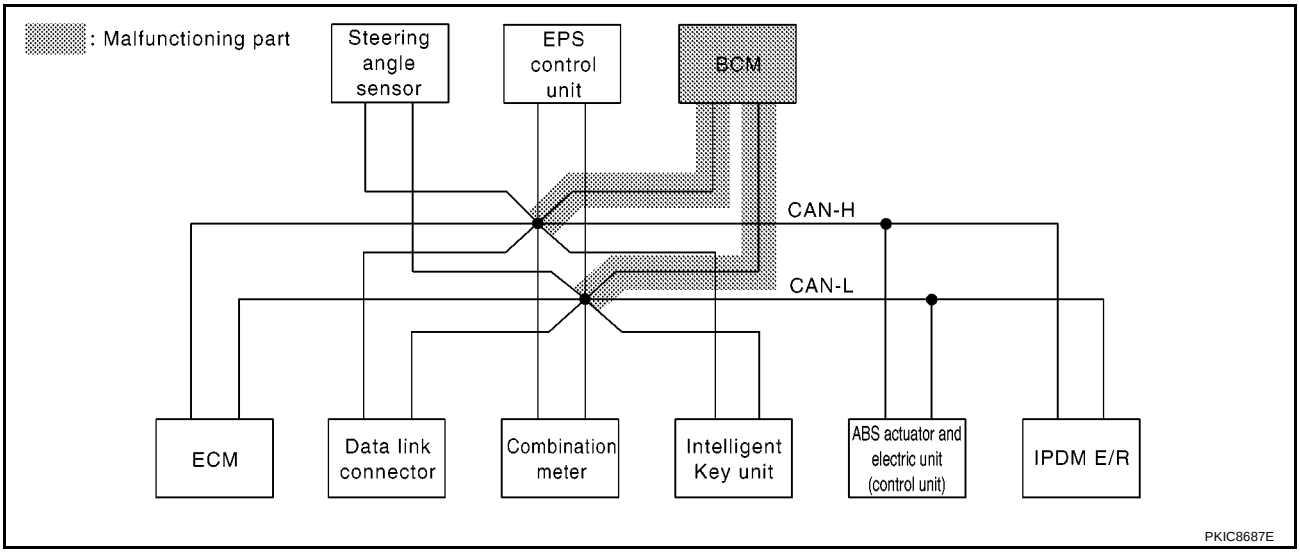
PKIC8686E

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



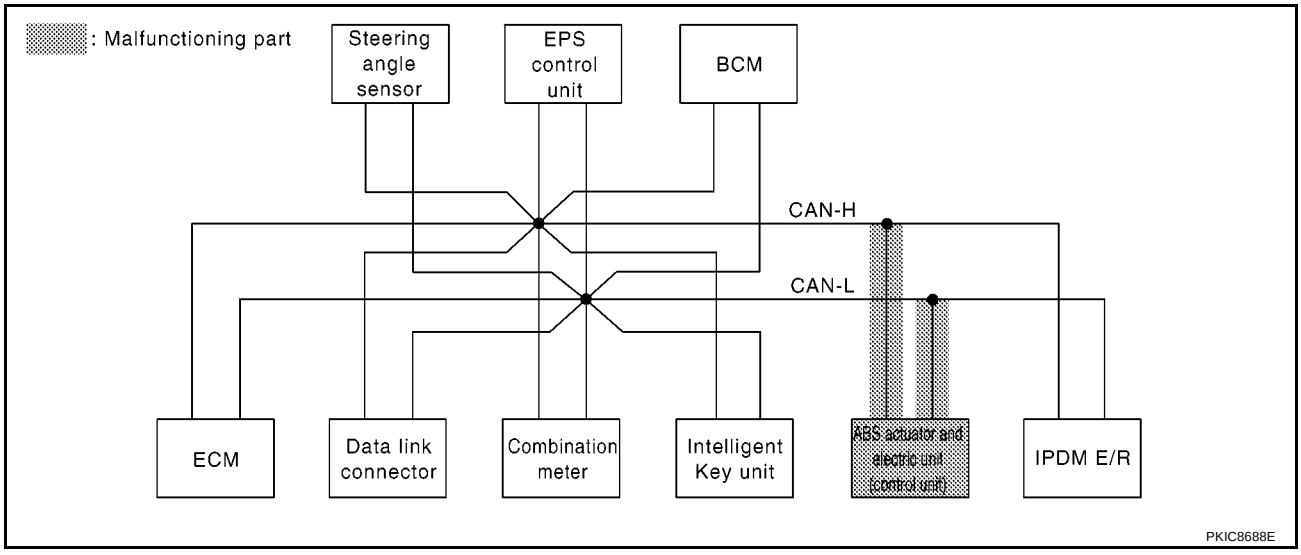
PKIC8687E

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	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)	—

PKIC9316E



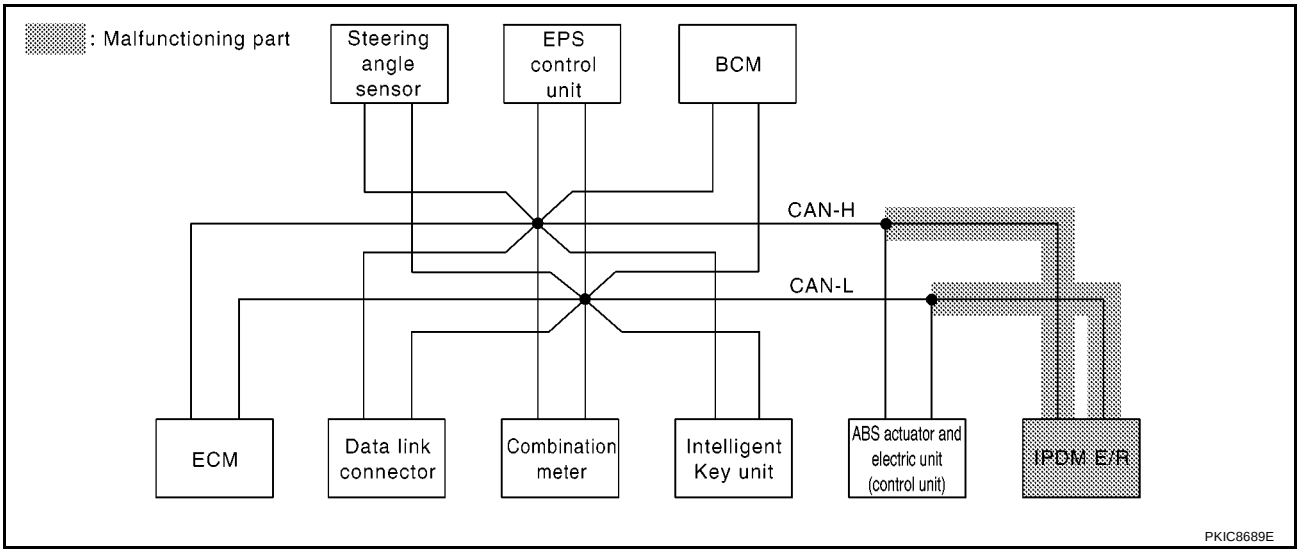
PKIC8688E

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	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) ✓	—

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

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

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

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" .

Check Sheet

BKS001L4

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

Check sheet table

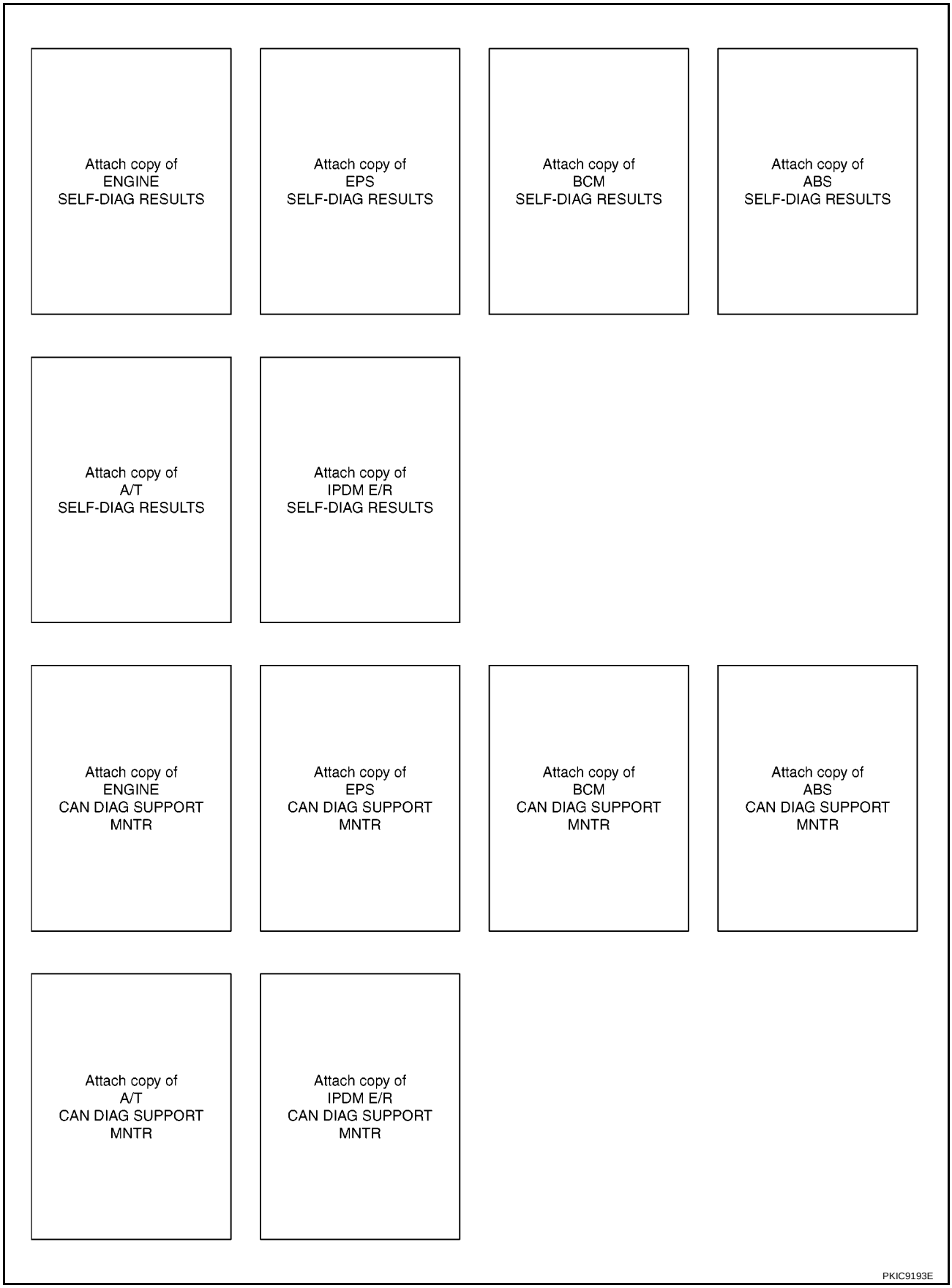
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	EPS	BCM /SEC	VDC/TCS /ABS	TCM	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
EPS	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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ENGINE
SELF-DIAG RESULTS
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A/T
CAN DIAG SUPPORT
MNTR
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IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC9193E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

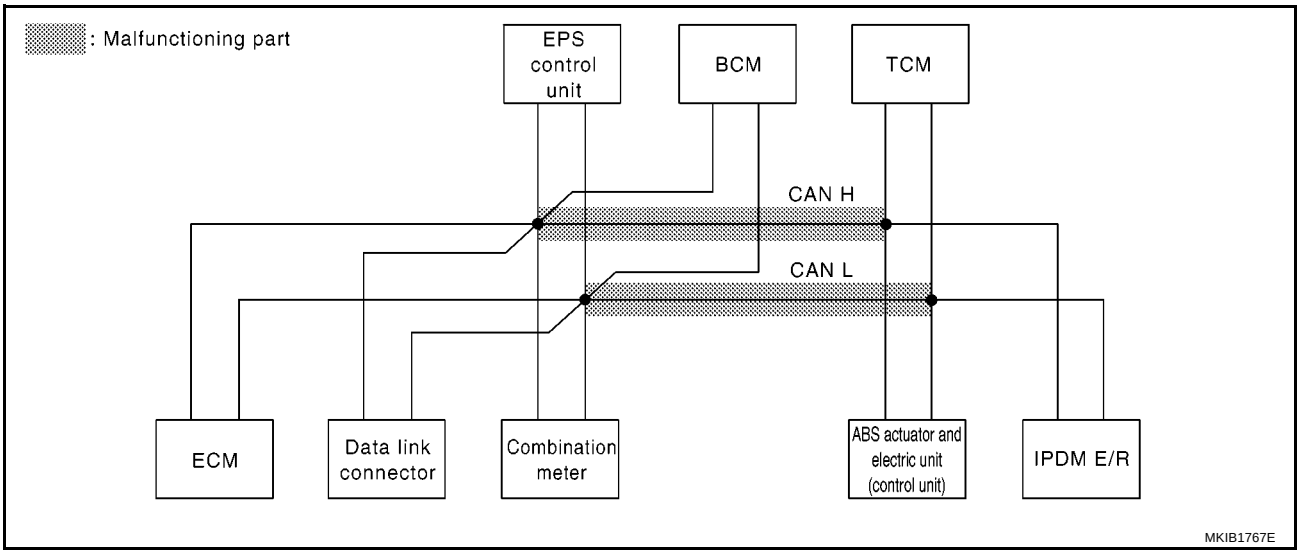
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	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) ✓	—

PKIC9244E



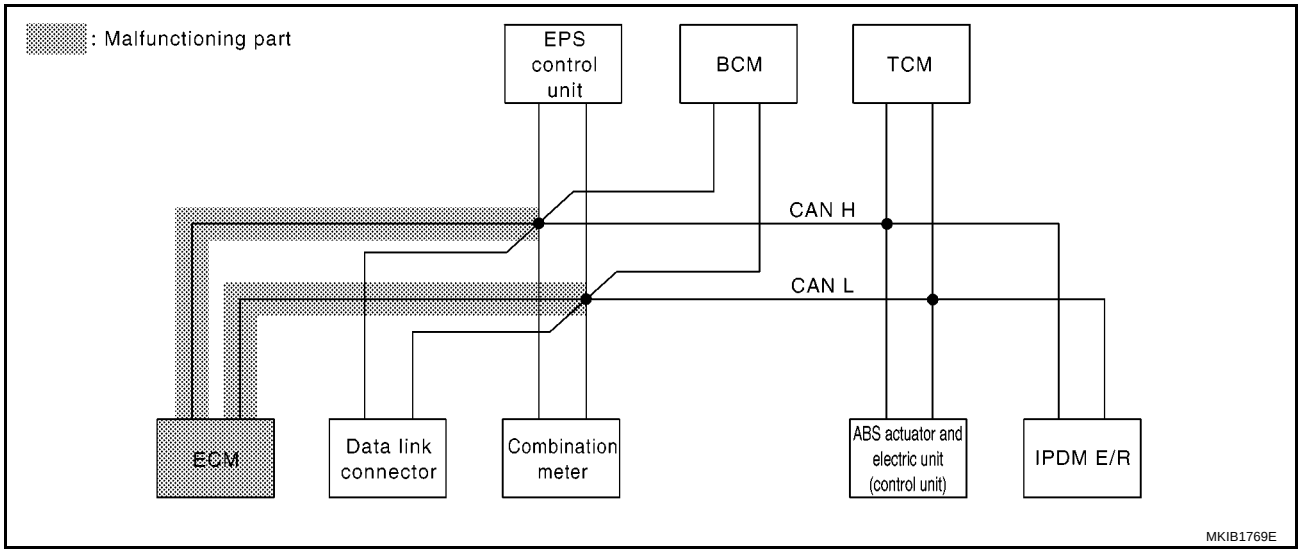
MKIB1767E

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	—	—	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)	—

PKIC9245E



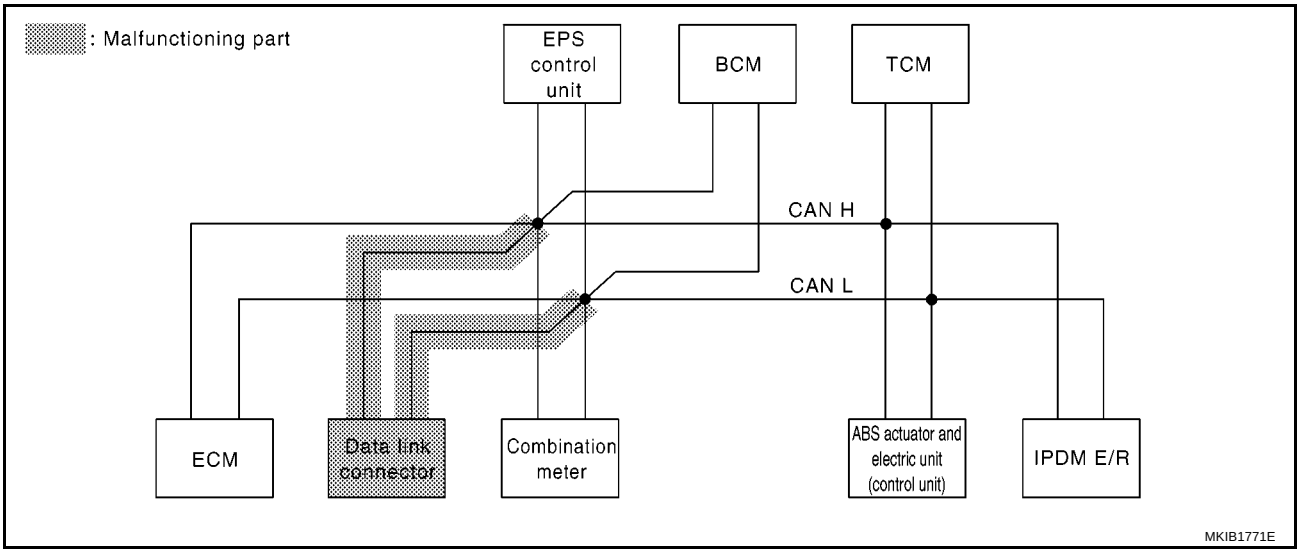
MKIB1769E

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



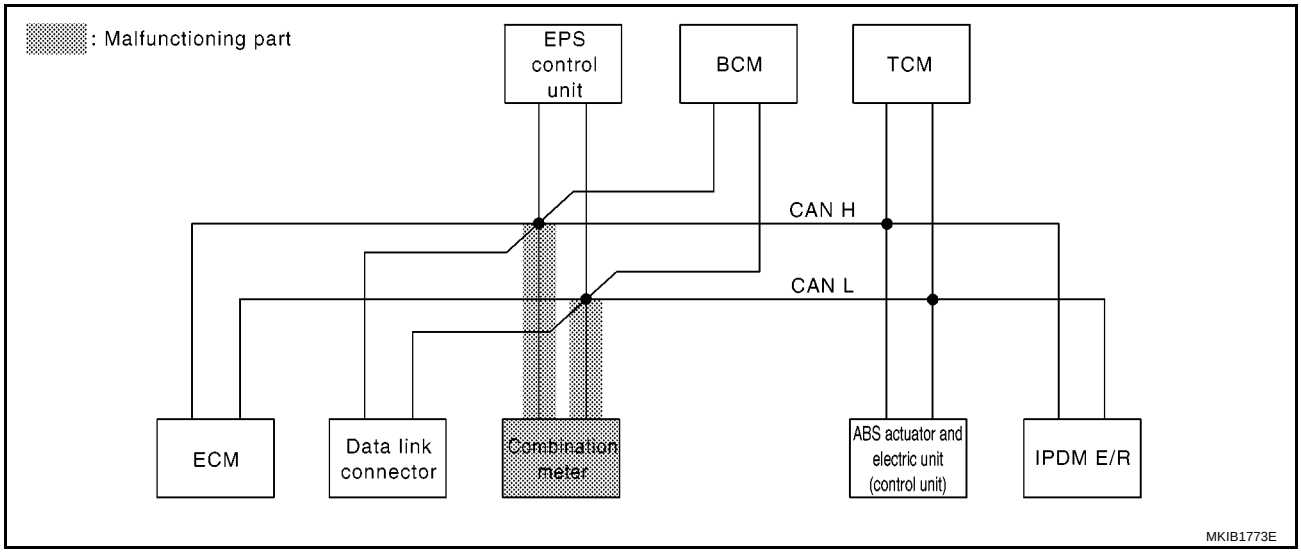
MKIB1771E

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	—	—	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)	—

PKIC9247E



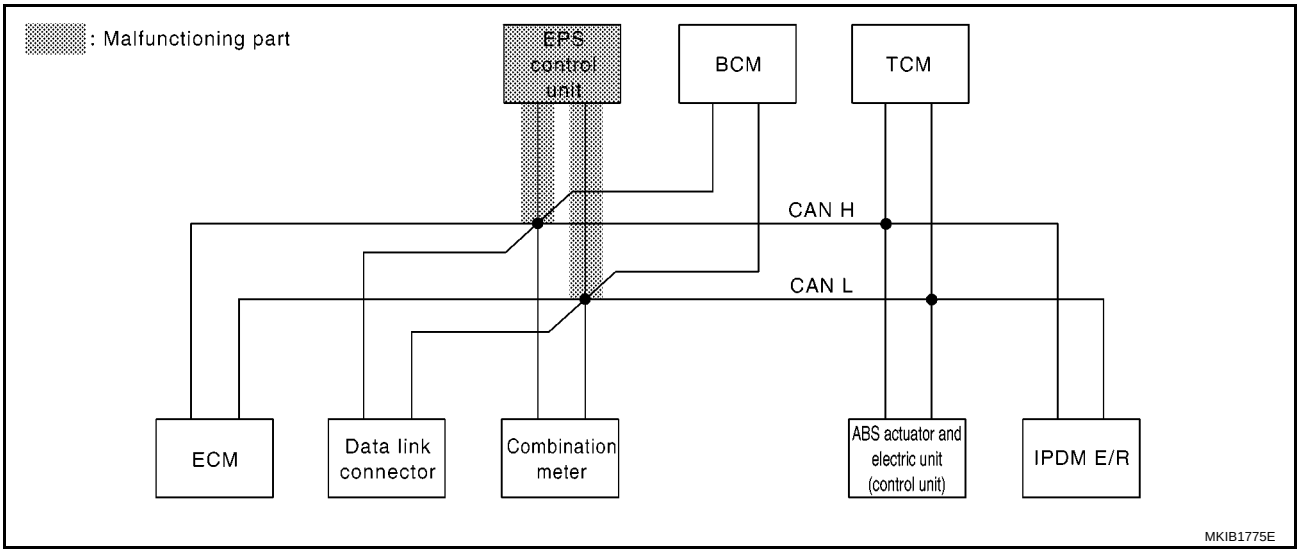
MKIB1773E

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



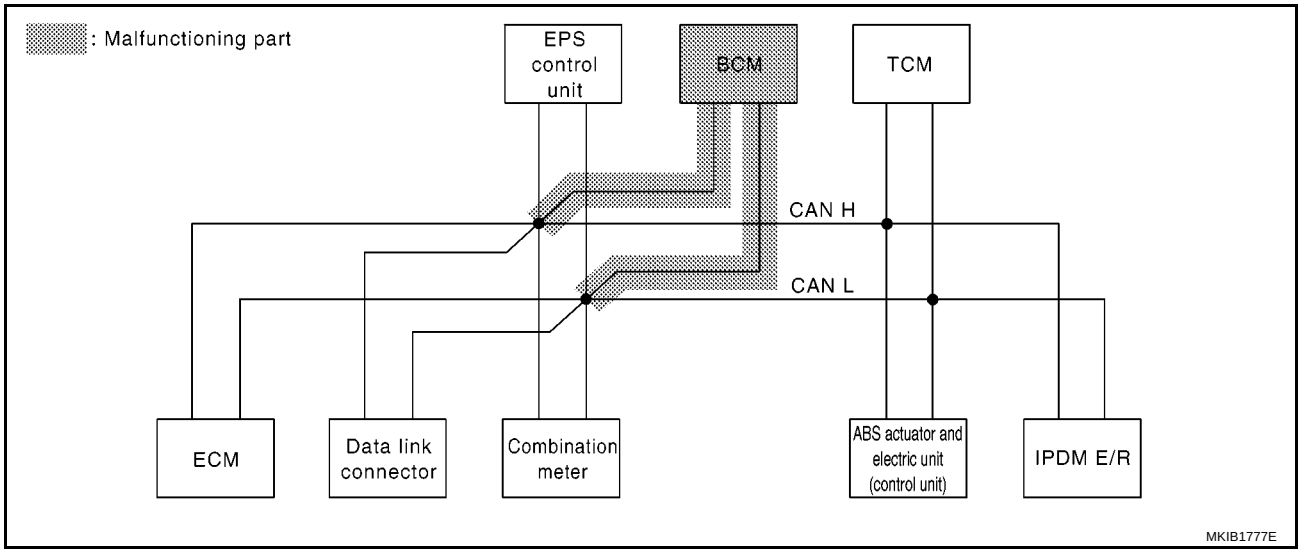
MKIB1775E

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	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)	—

PKIC9249E



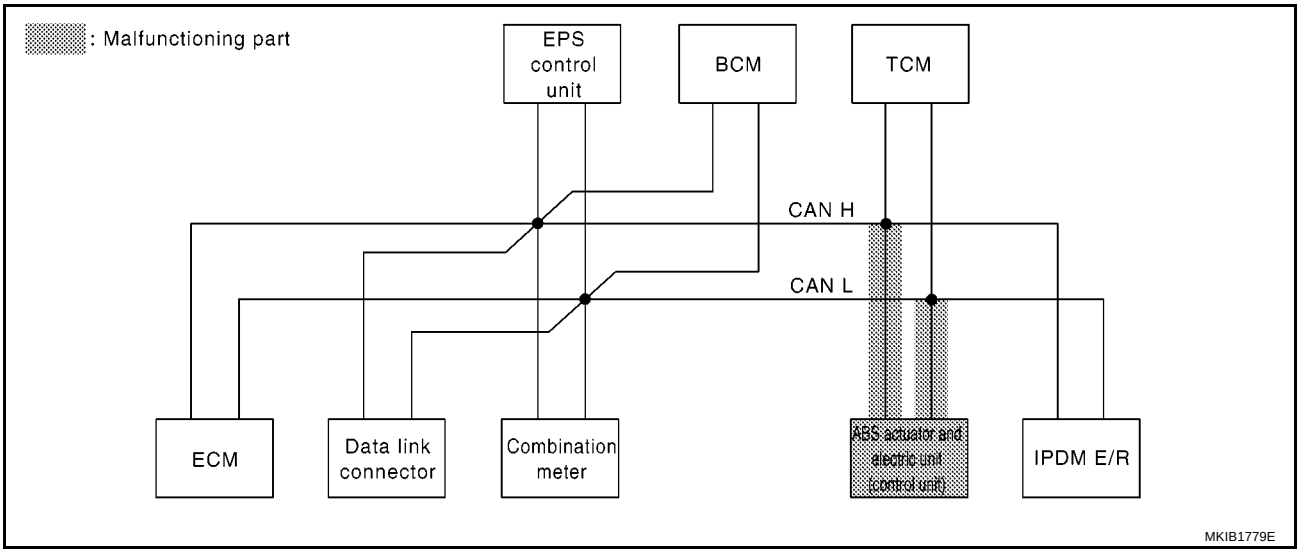
MKIB1777E

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	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)	—

PKIC9250E

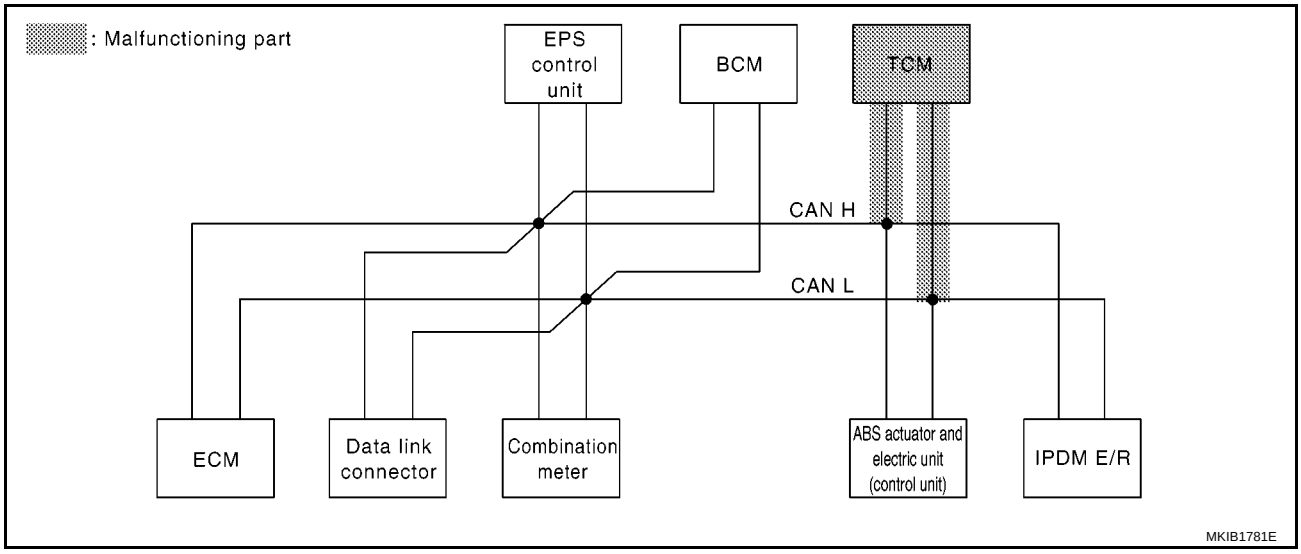


Case 8

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 ✓	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)	—

PKIC9251E



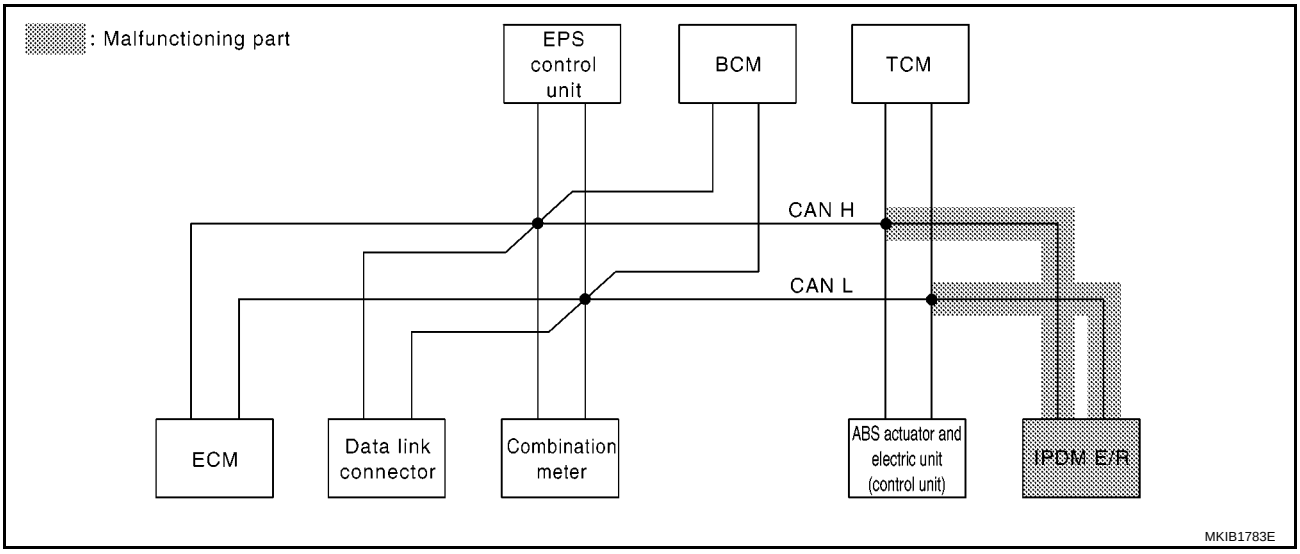
MKIB1781E

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



MKIB1783E

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

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

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	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

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" .

Check Sheet

BKS001JH

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

Check sheet table

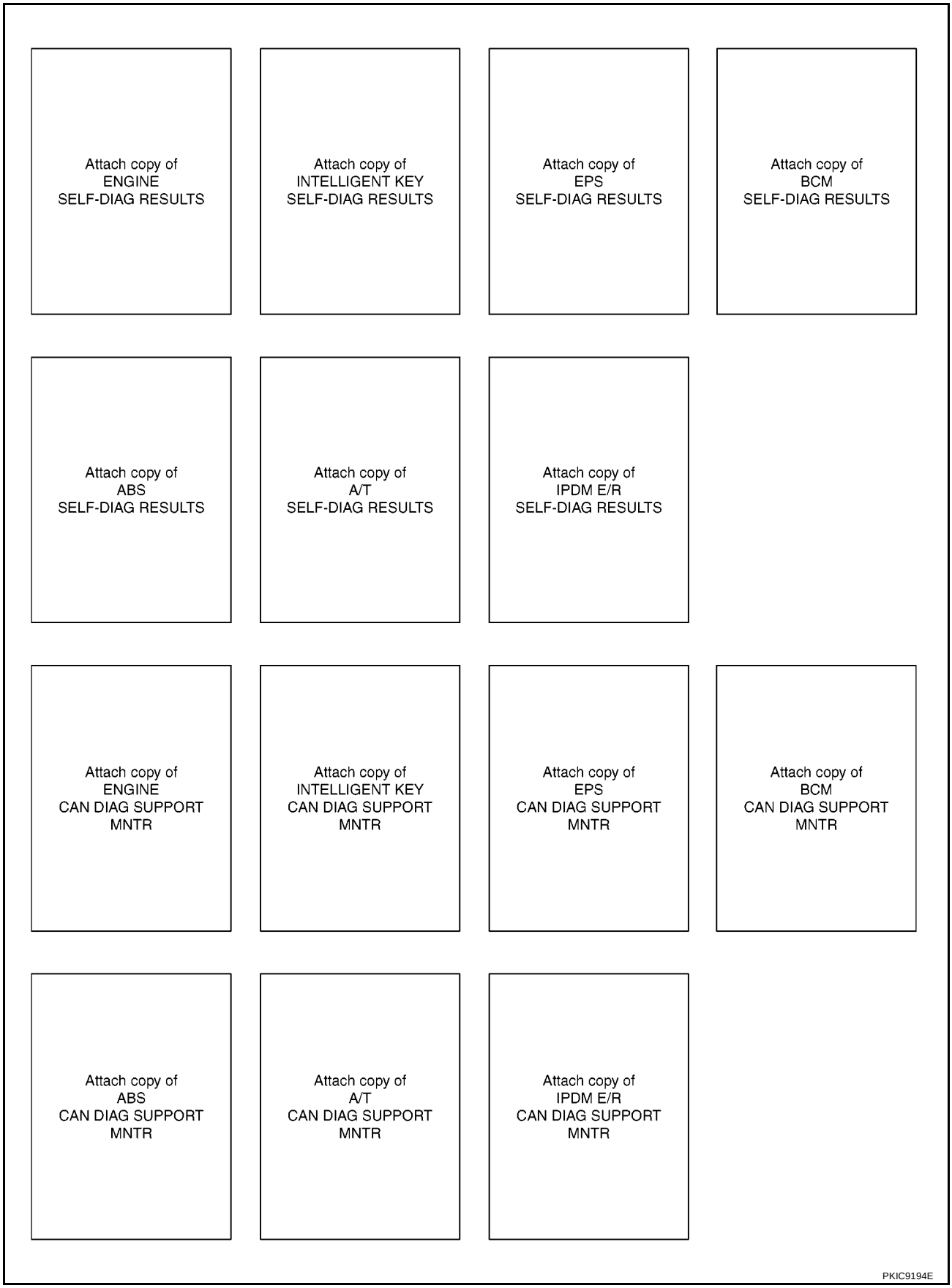
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	METER /M&A	I-KEY	EPS	BCM /SEC	VDC/TCS /ABS	TCM	IPDM E/R		
ENGINE	—	—	UNKWN	—	—	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
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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SELF-DIAG RESULTS
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Attach copy of
EPS
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BCM
SELF-DIAG RESULTS
Attach copy of
ABS
SELF-DIAG RESULTS
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A/T
SELF-DIAG RESULTS
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SELF-DIAG RESULTS
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MNTR
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A/T
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC9194E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

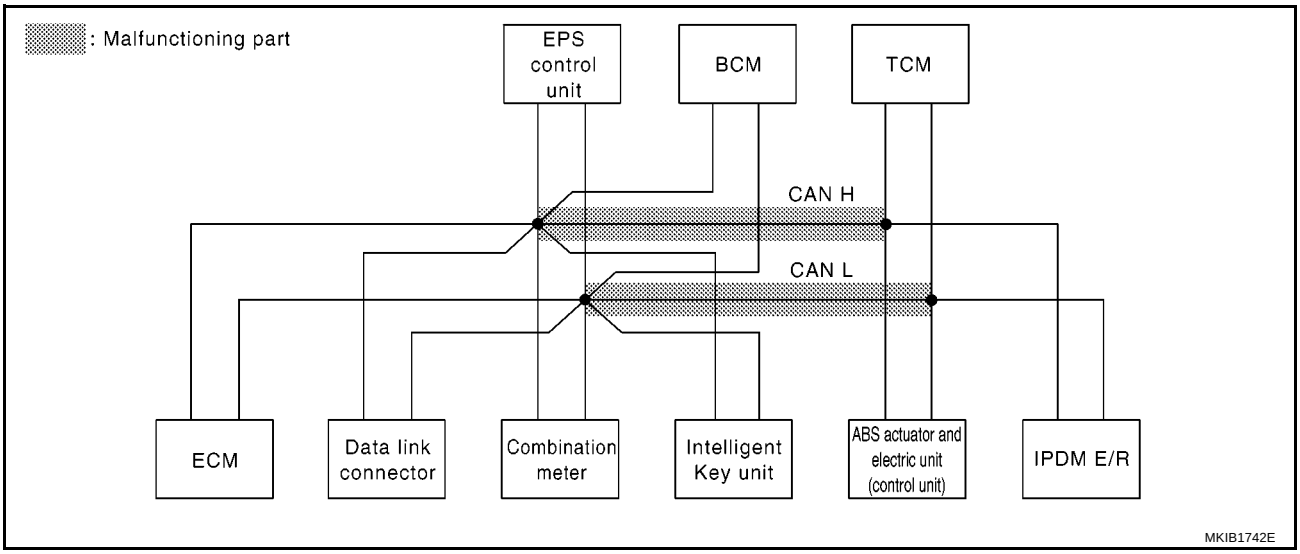
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	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) ✓	—

PKIC9256E



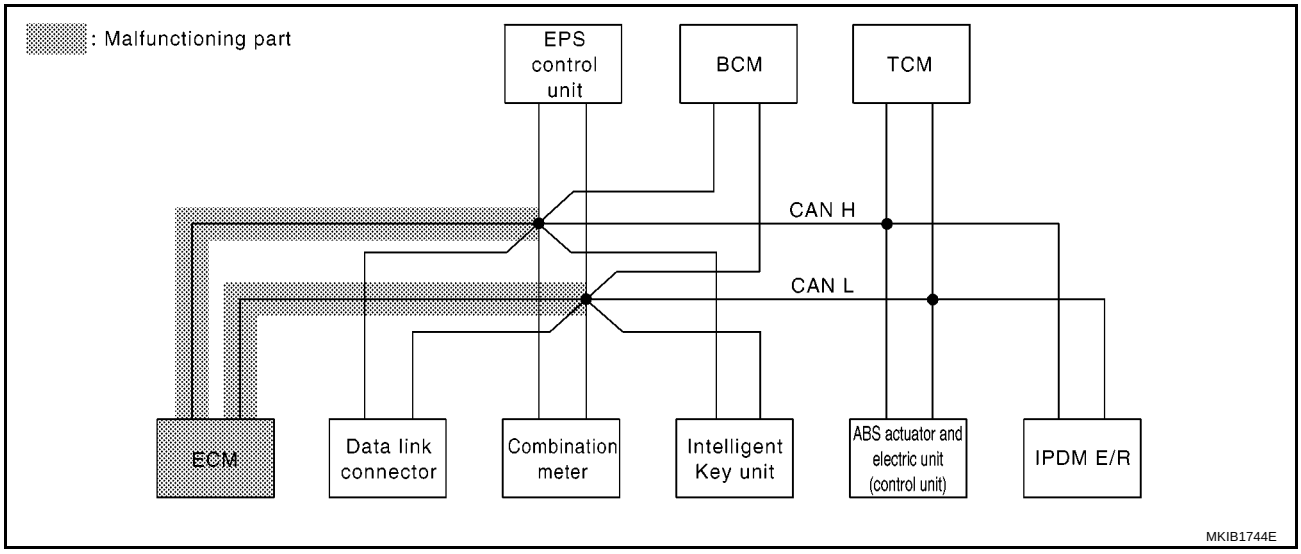
MKIB1742E

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	—	—	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)	—

PKIC9257E



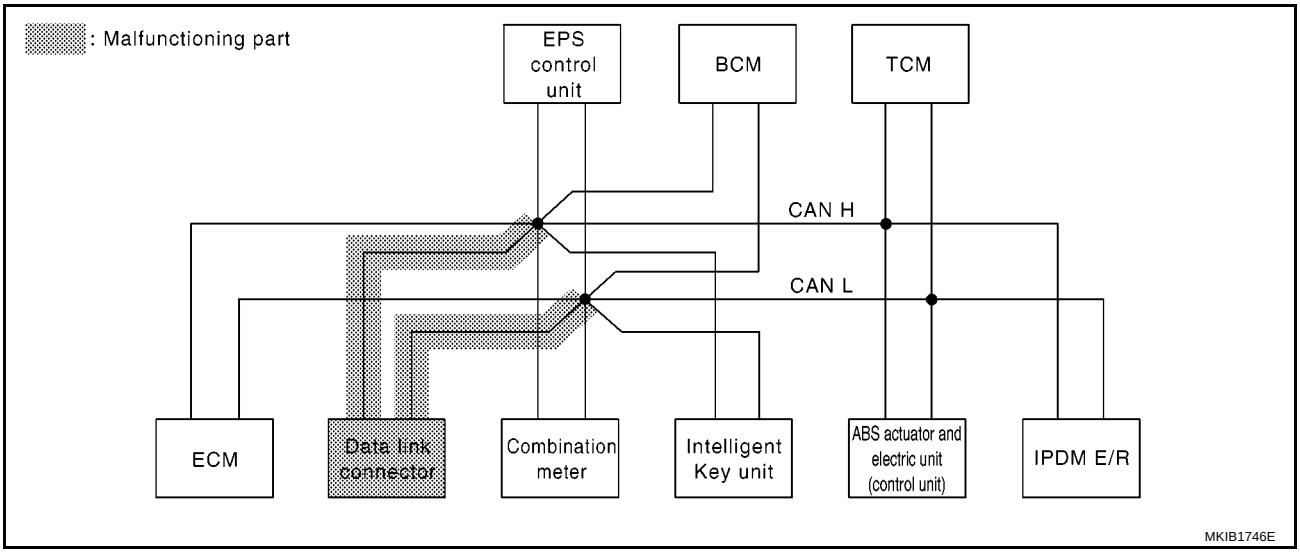
MKIB1744E

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



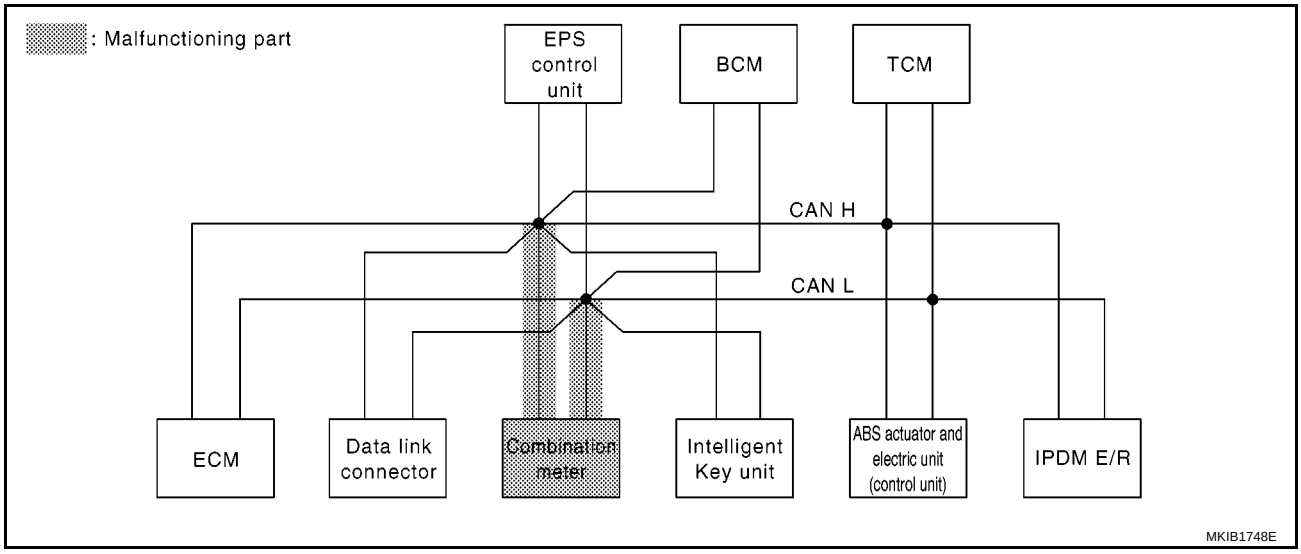
MKIB1746E

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 ✓	—	—	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)	—

PKIC9259E



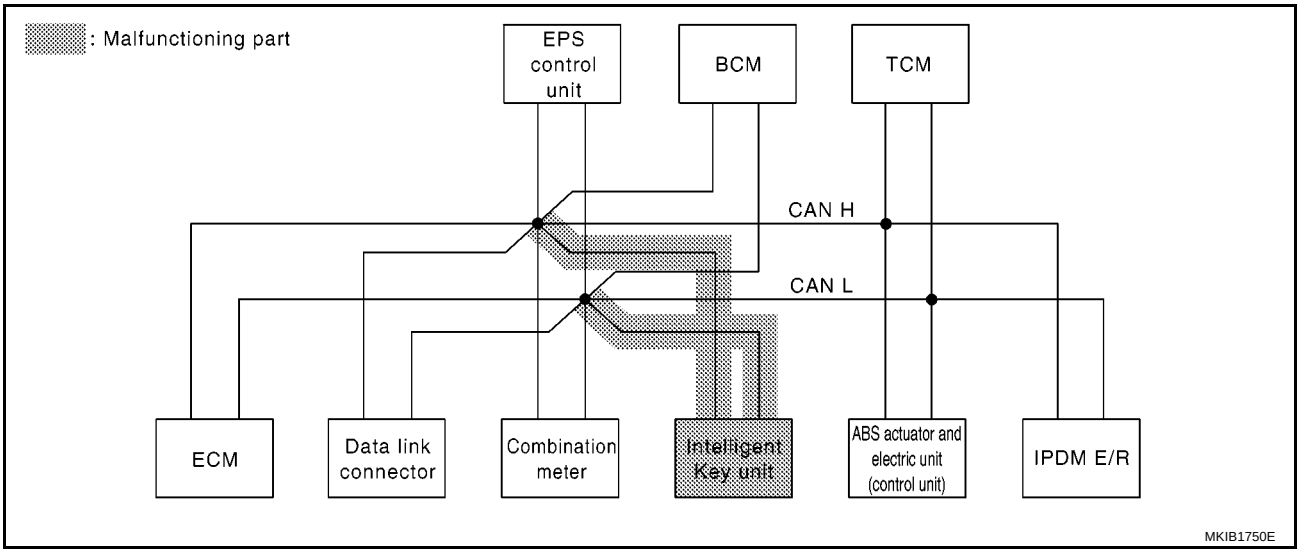
MKIB1748E

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

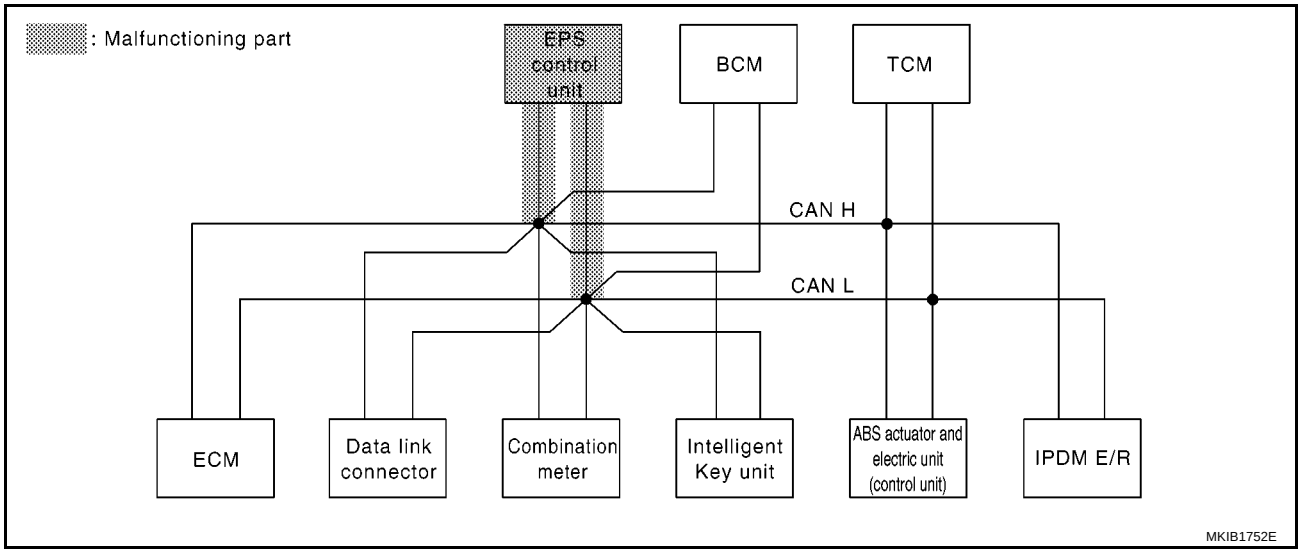


Case 6

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



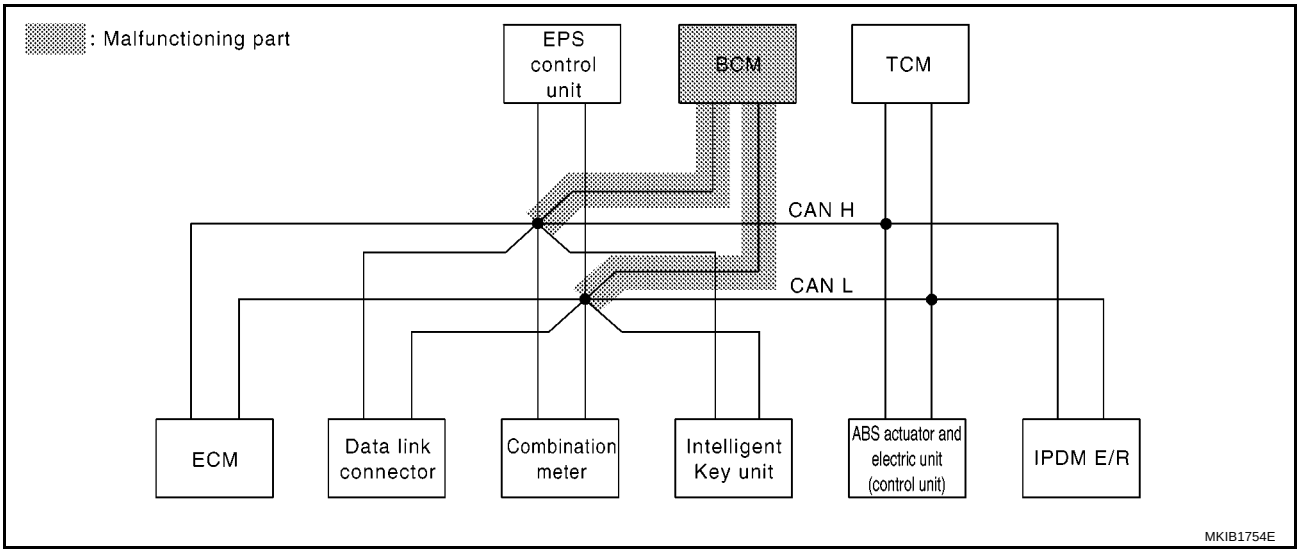
MKIB1752E

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



MKIB1754E

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	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)	—

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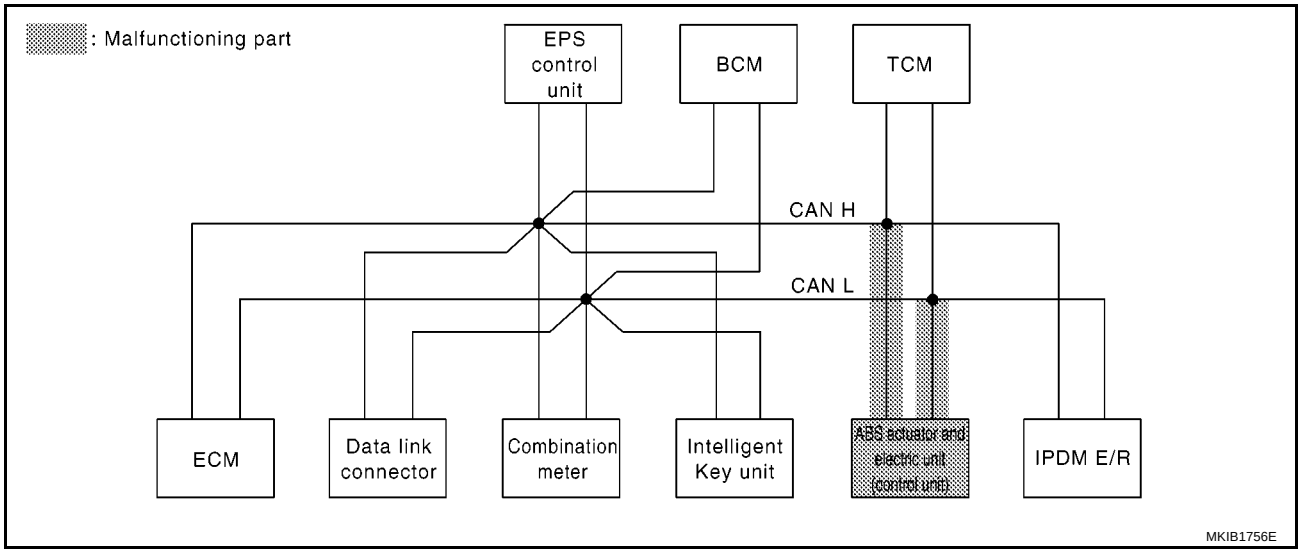


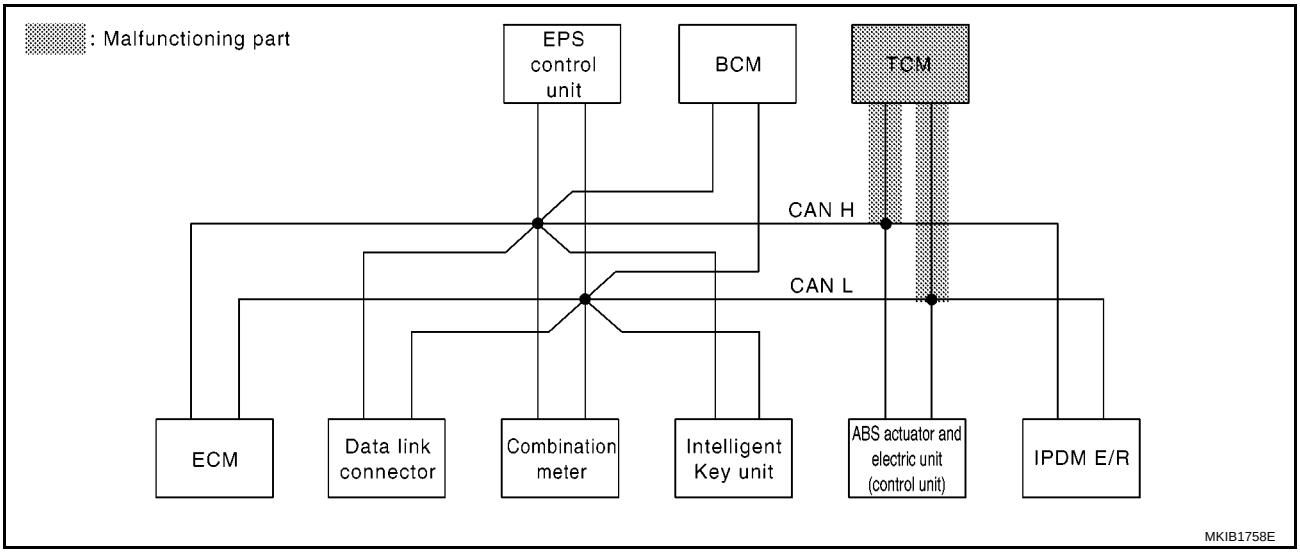
MKIB1756E

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	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)	—

PKIC9264E



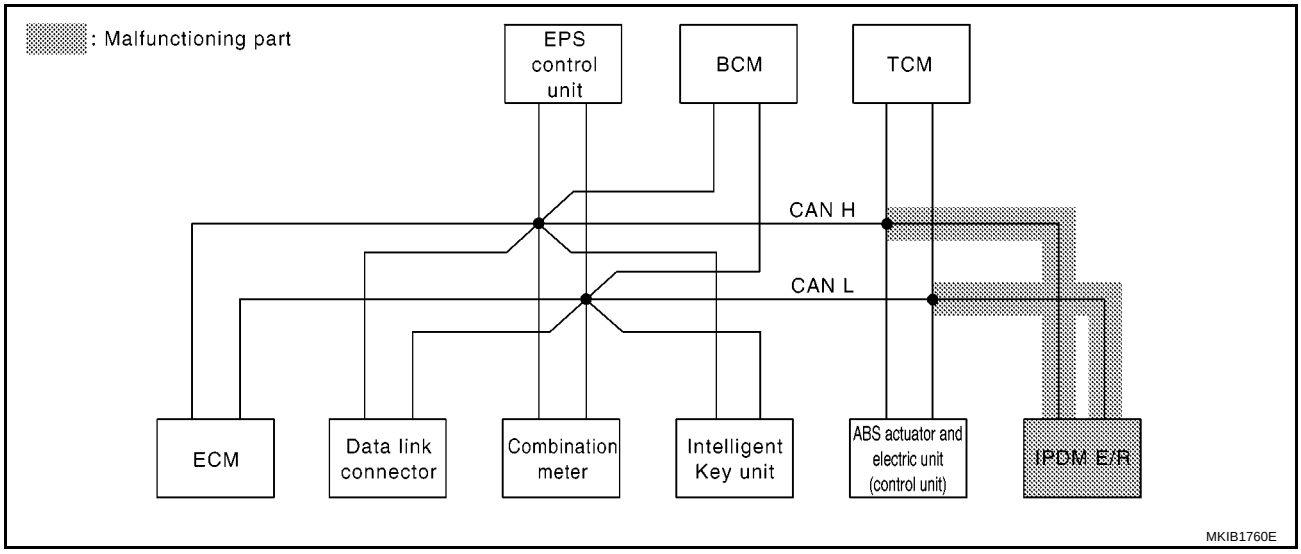
MKIB1758E

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	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) ✓	—

PKIC9265E



MKIB1760E

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) ✓	—

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

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

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" .

Check Sheet

BKS001L8

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

Check sheet table

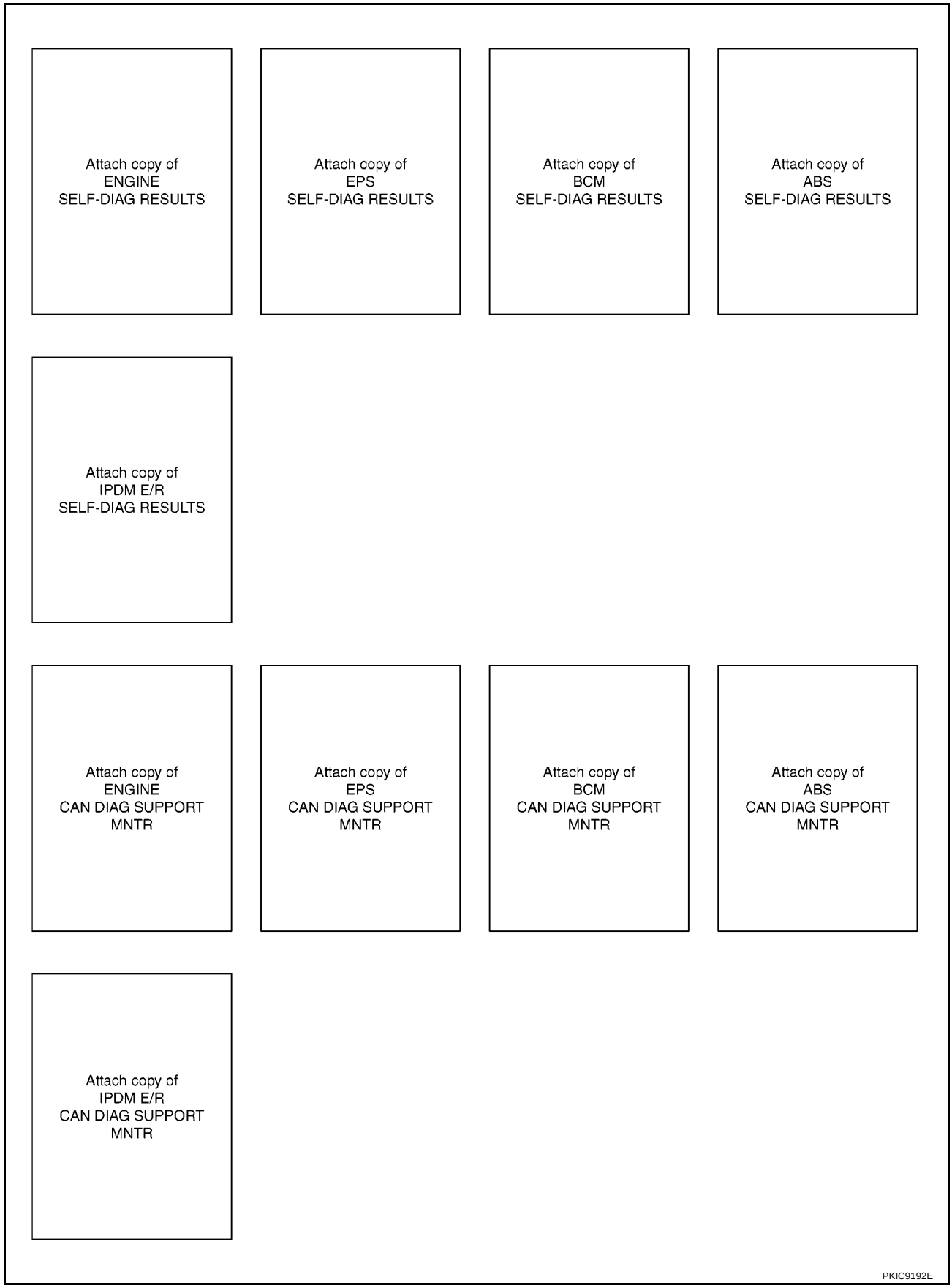
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	METER /M&A	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	No indication	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
EPS	No indication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


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:

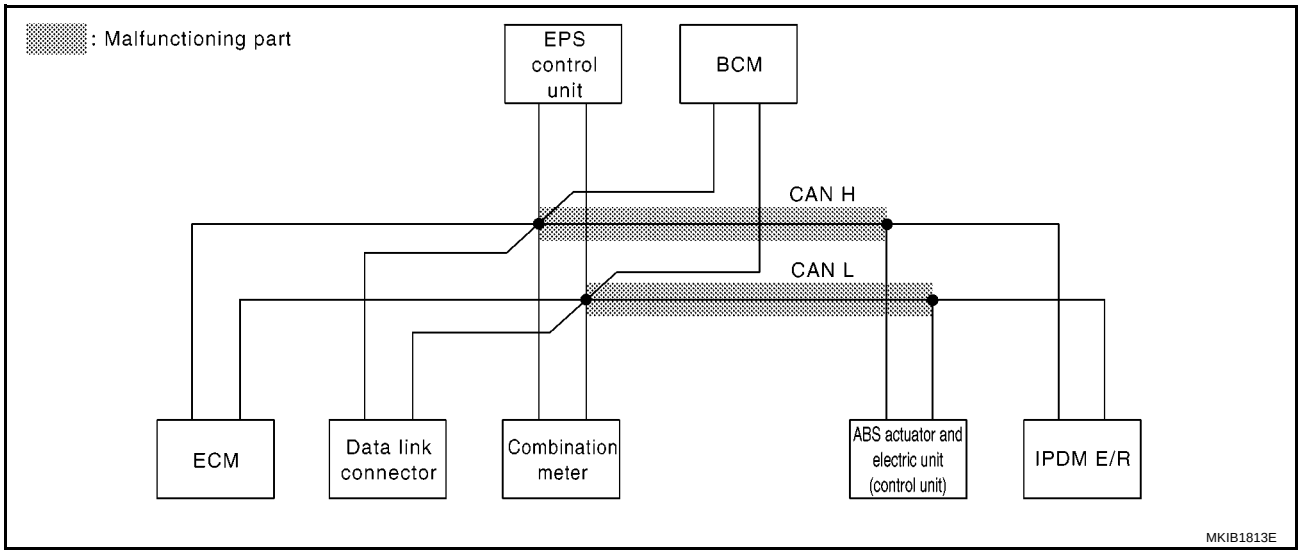
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	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

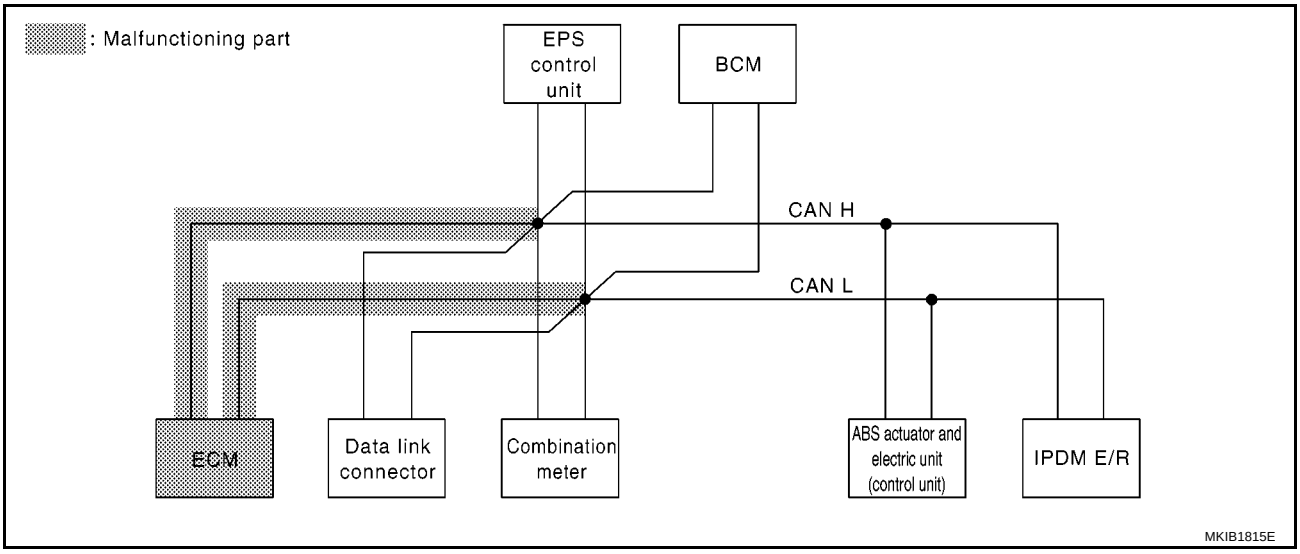


Case 2

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



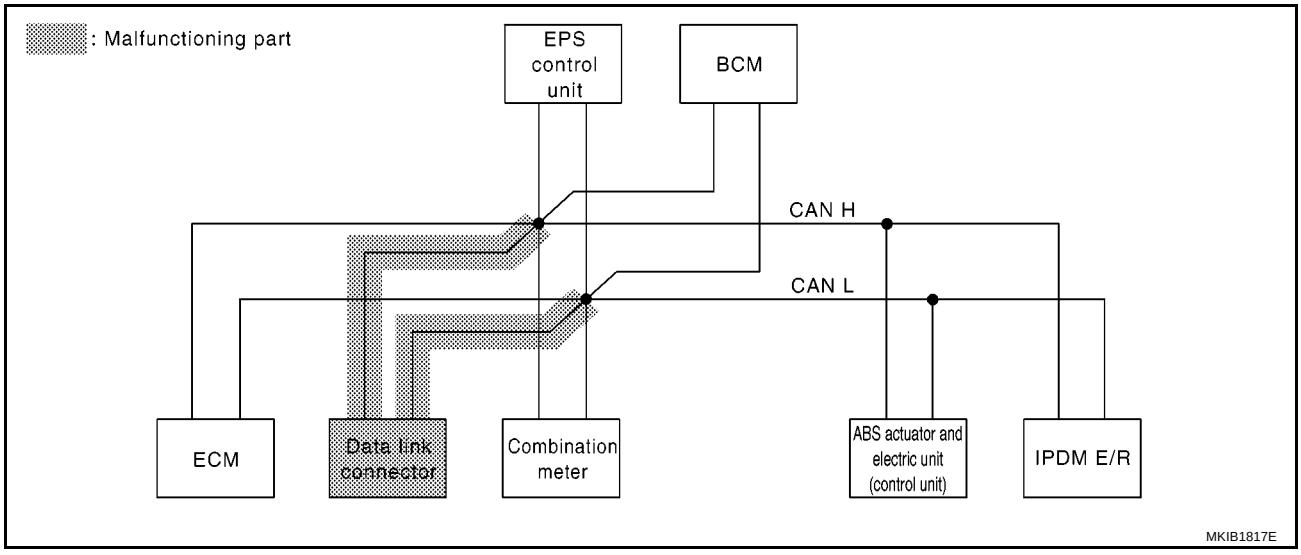
MKIB1815E

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



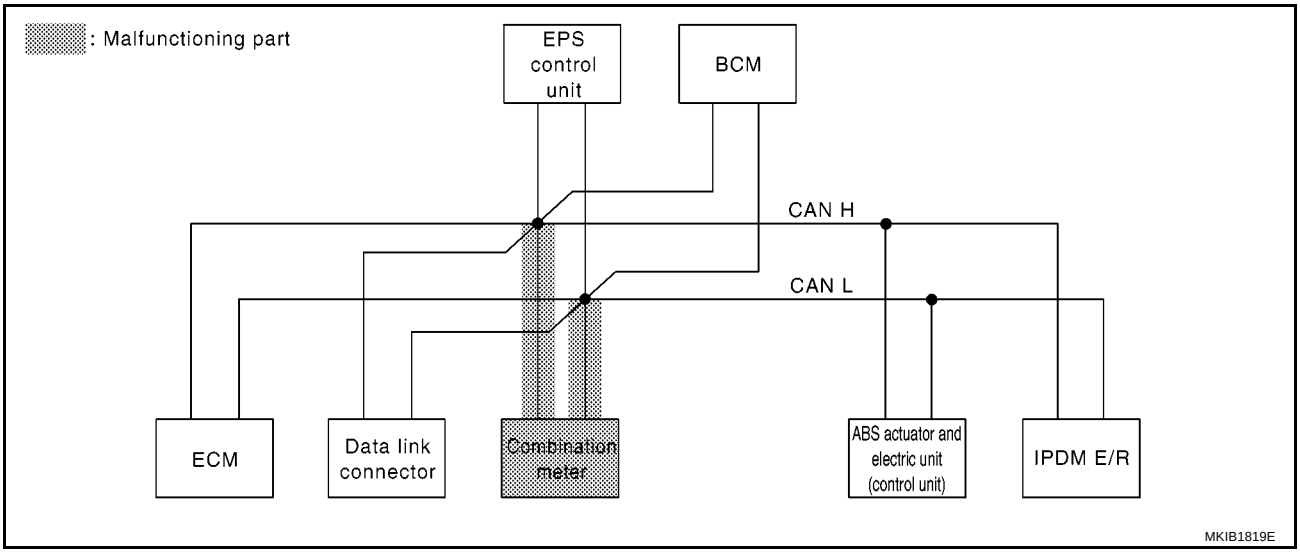
MKIB1817E

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	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

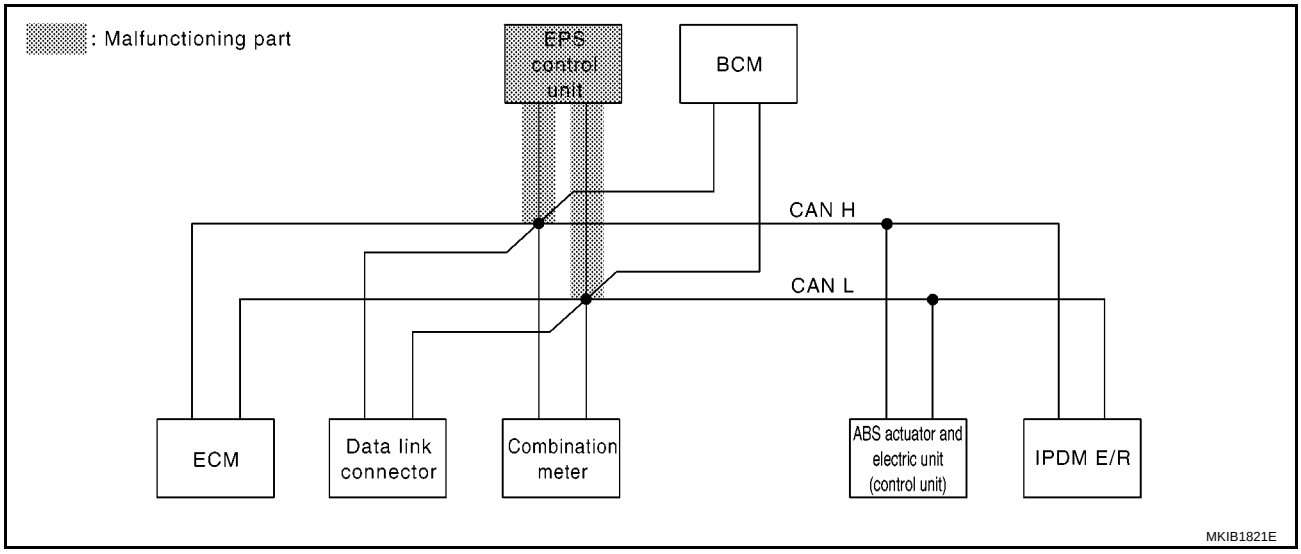


Case 5

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)	—

PKIC9325E



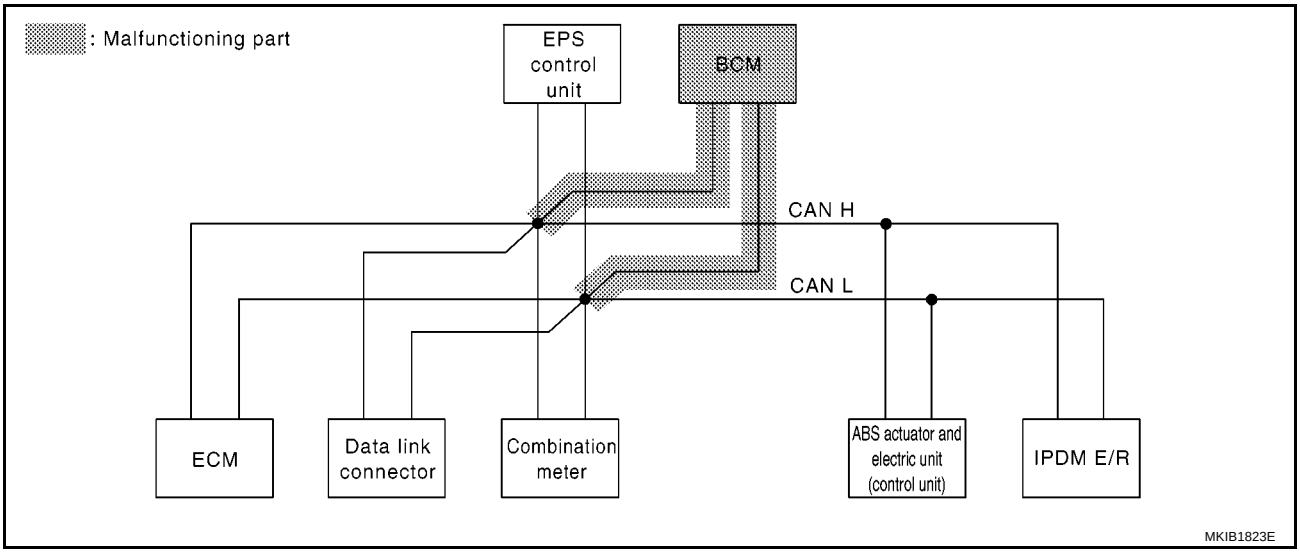
MKIB1821E

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) ✓	–

PKIC9326E

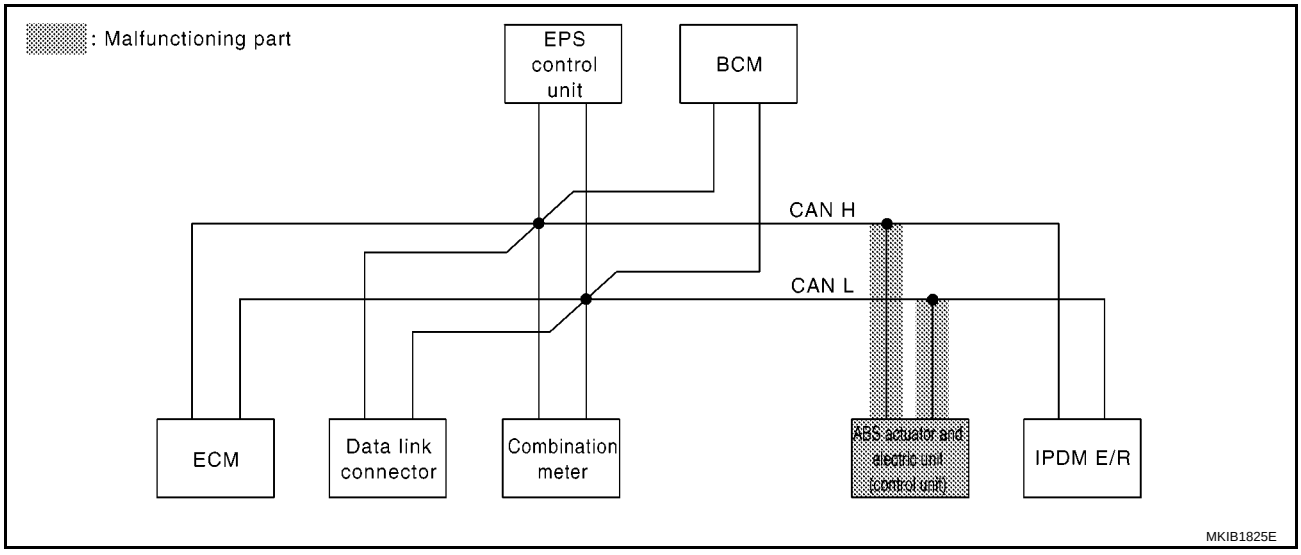


Case 7

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)	—

PKIC9327E

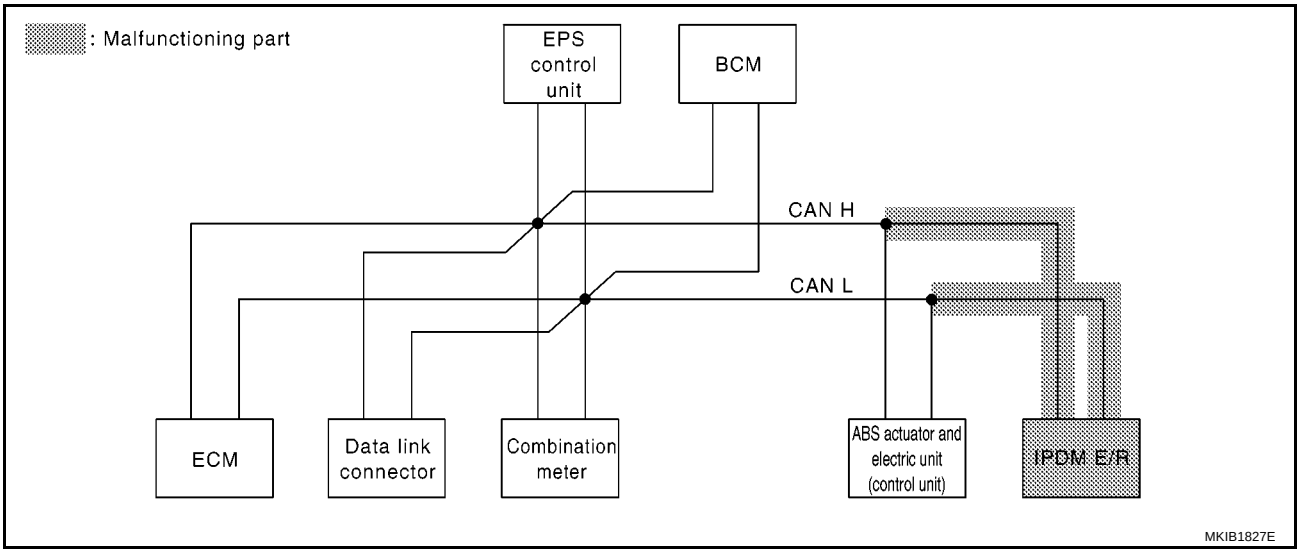


Case 8

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	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) ✓	–

PKIC9328E



MKIB1827E

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

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

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

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" .

Check Sheet

BKS001L9

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	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

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:

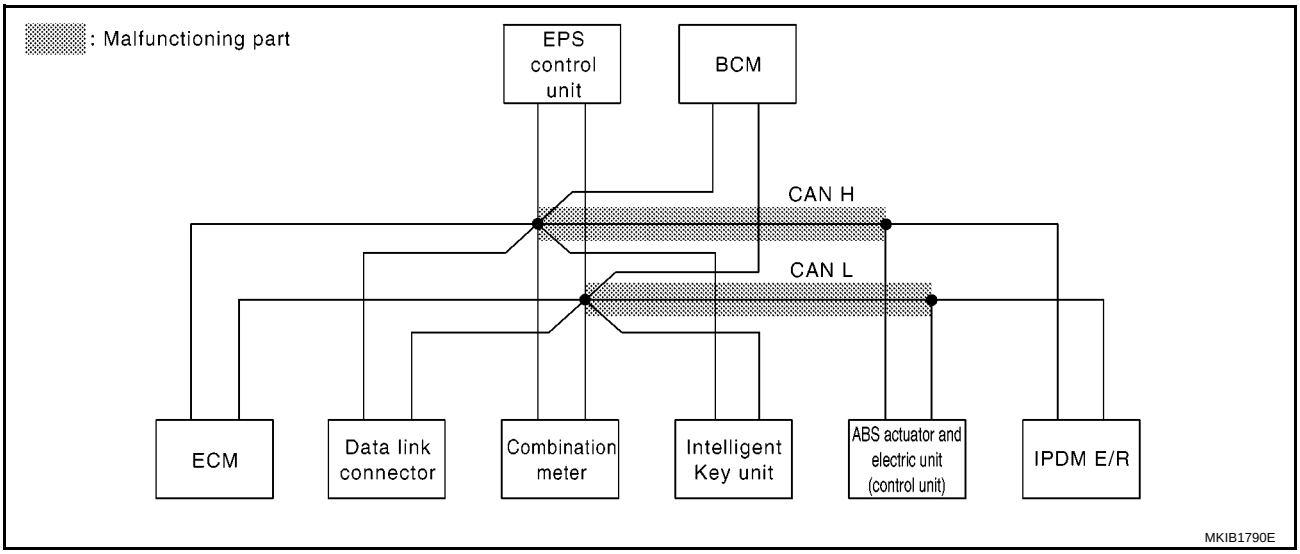
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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 ✓	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

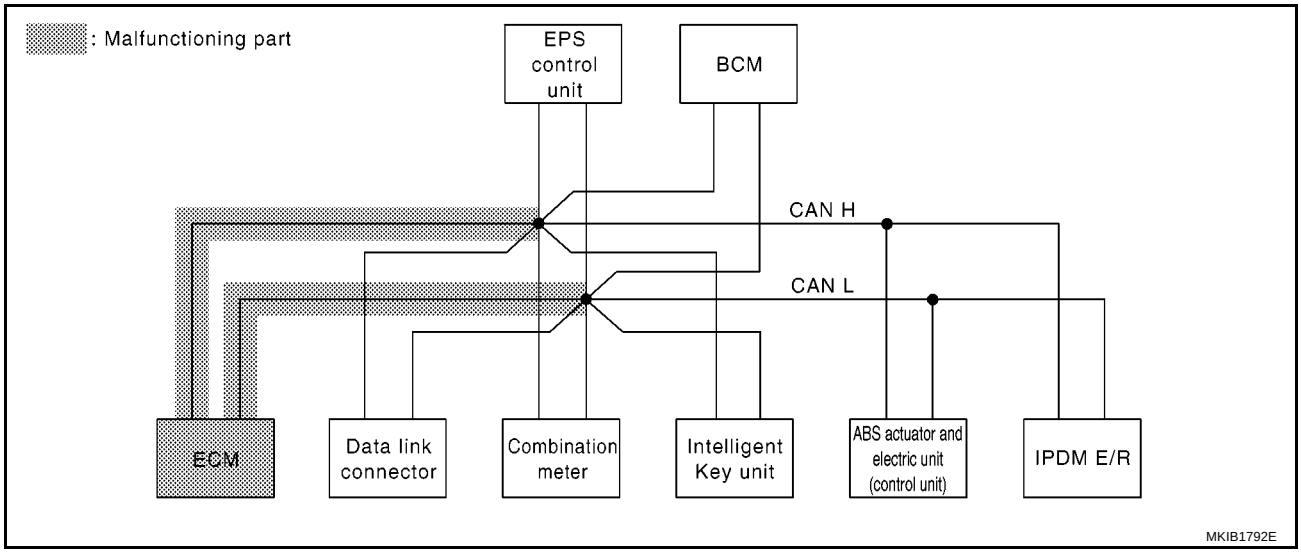


Case 2

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



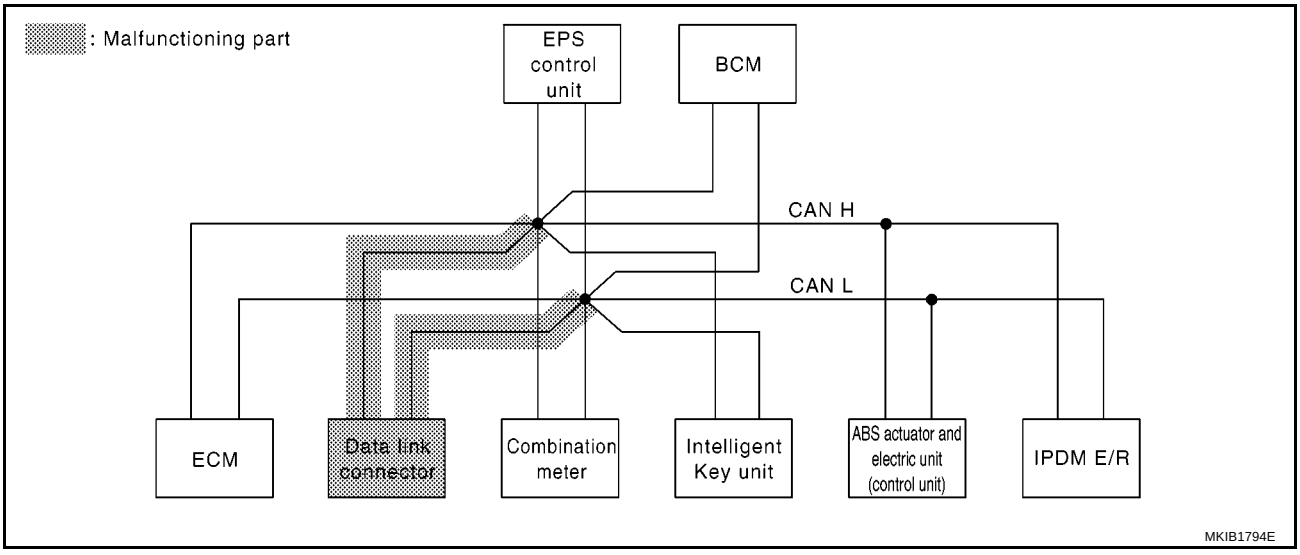
MKIB1792E

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 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)	—

PKIC9334E



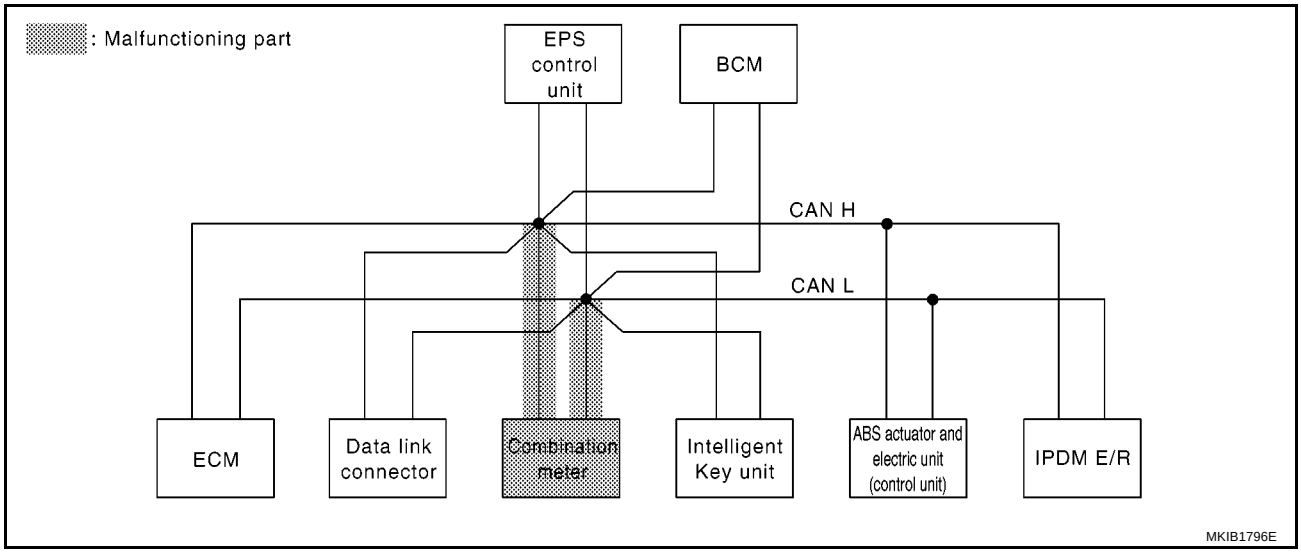
MKIB1794E

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	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)	—

PKIC9335E

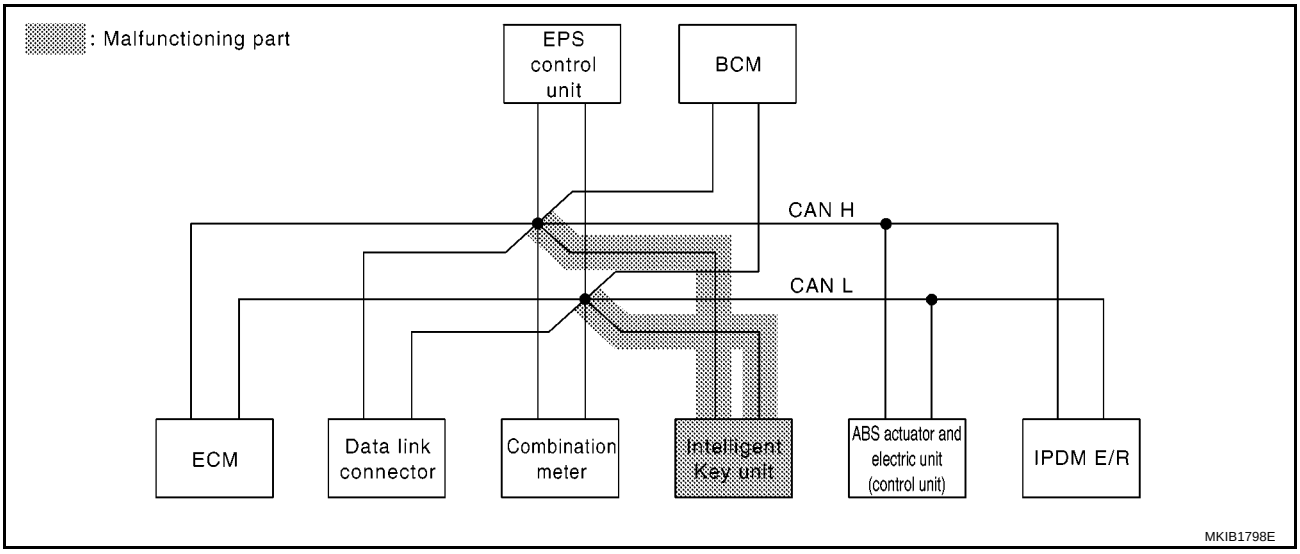


Case 5

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

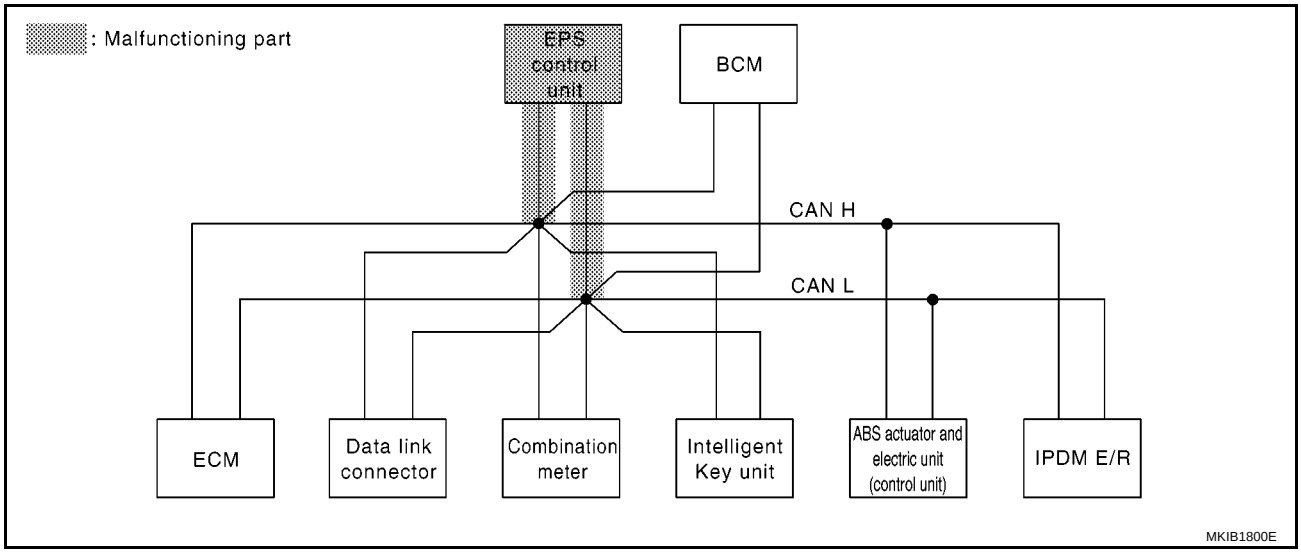


Case 6

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



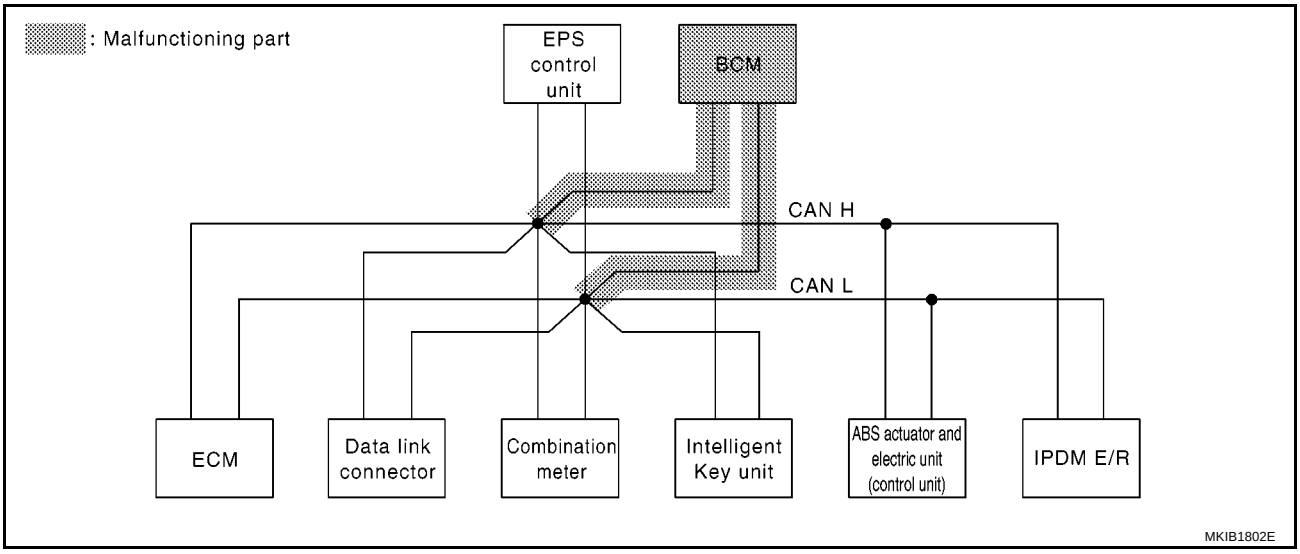
MKIB1800E

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



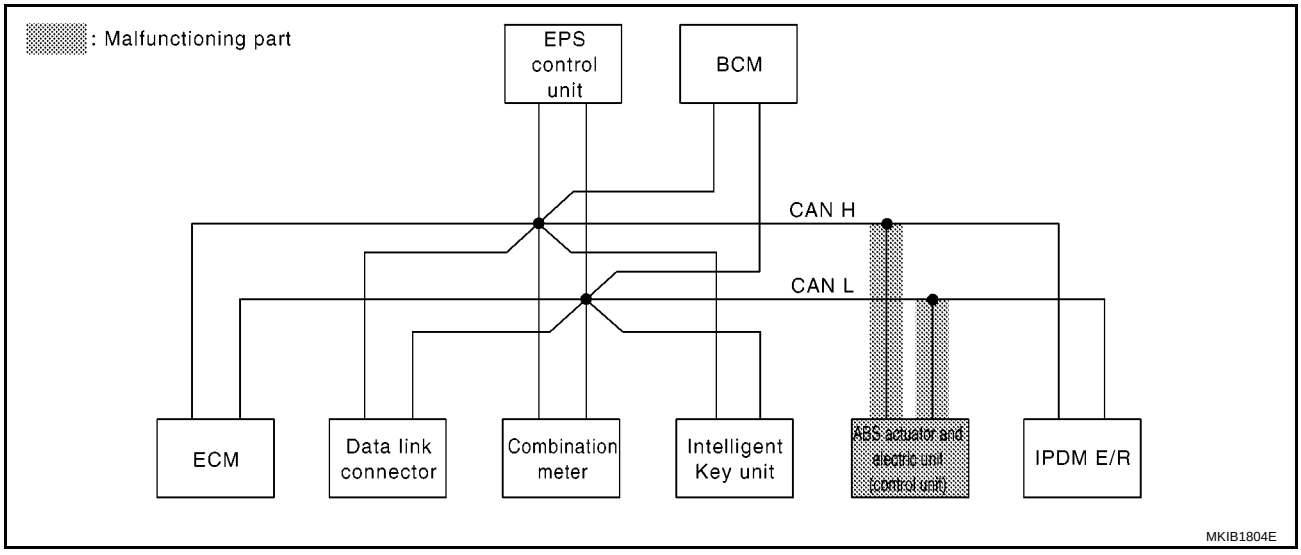
MKIB1802E

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	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)	—

PKIC9339E



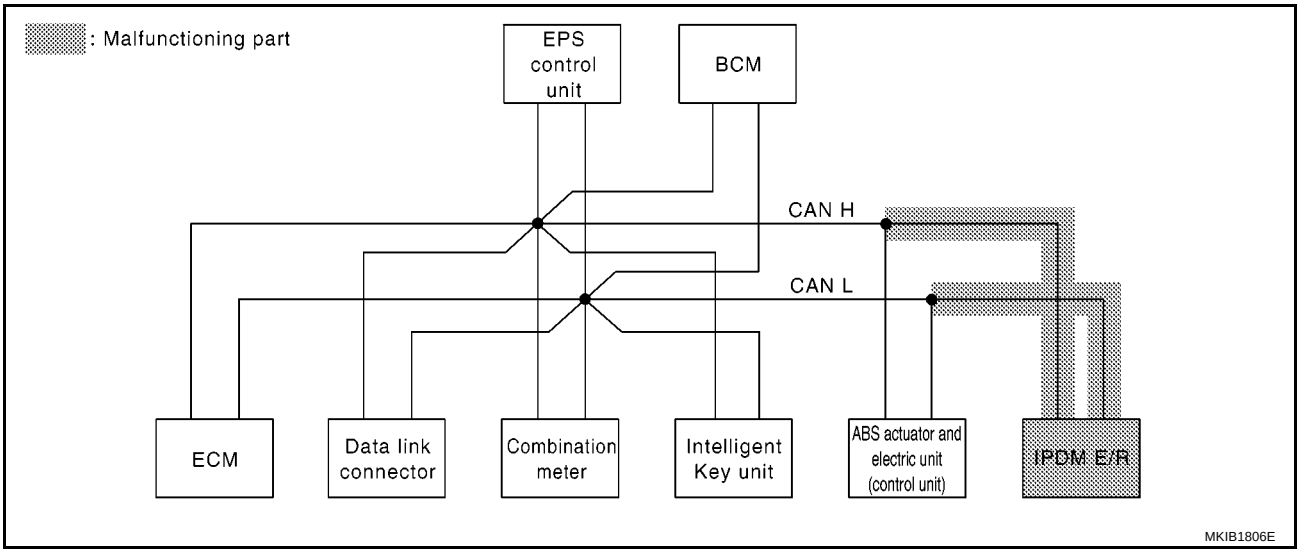
MKIB1804E

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	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) ✓	—

PKIC9340E



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

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

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

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" .

Check Sheet

BKS001L5

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

Check sheet table

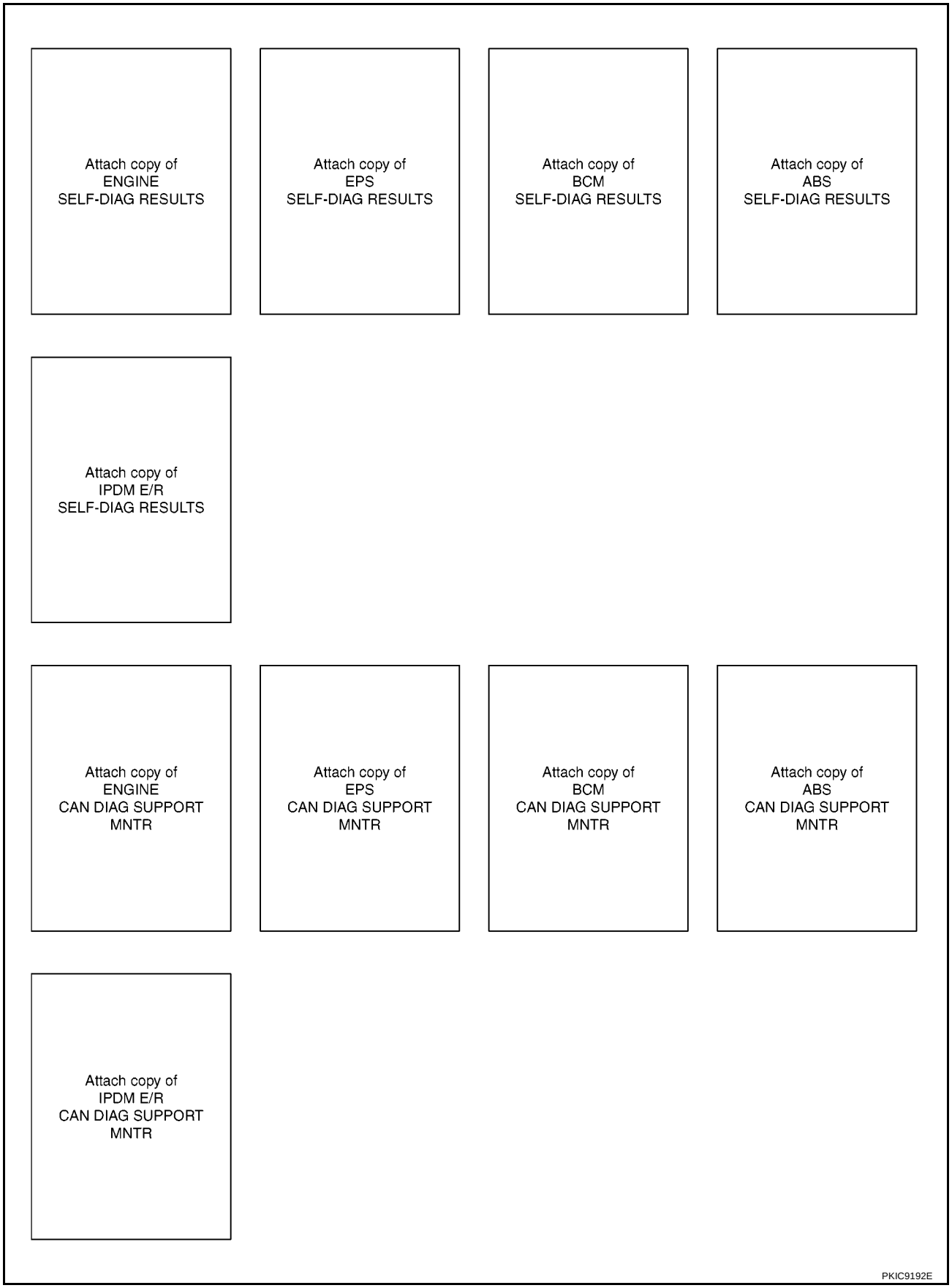
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	METER /M&A	STRG	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	No indication	—	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
EPS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


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
EPS
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
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ABS
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MNTR
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ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC9192E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

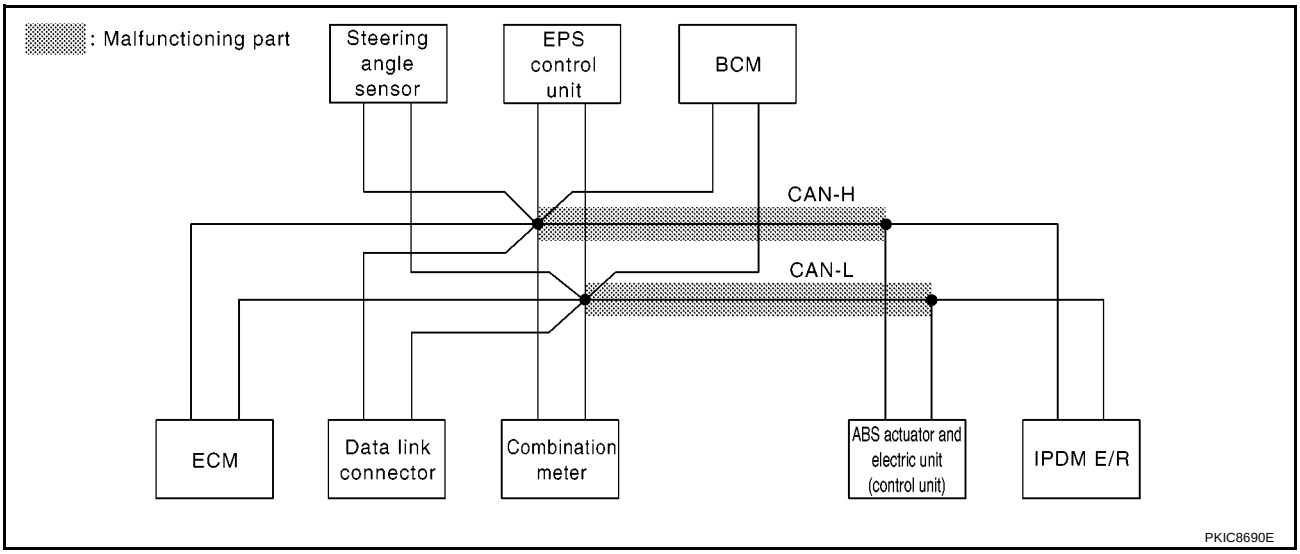
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	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) ✓	—

PKIC9344E

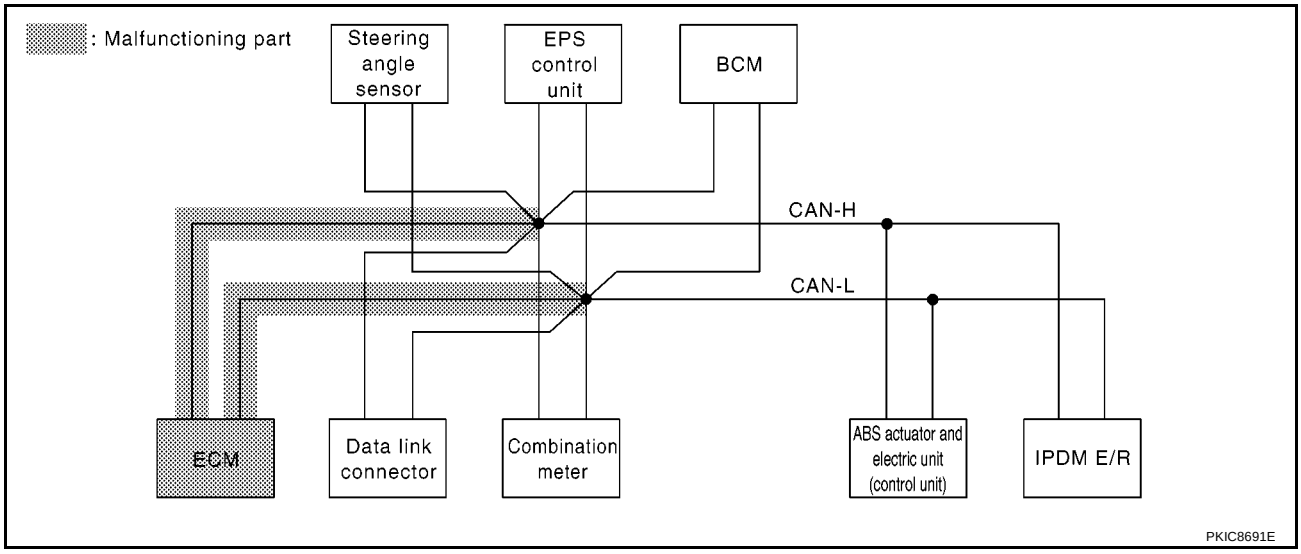


Case 2

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	—	—	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)	—

PKIC9345E



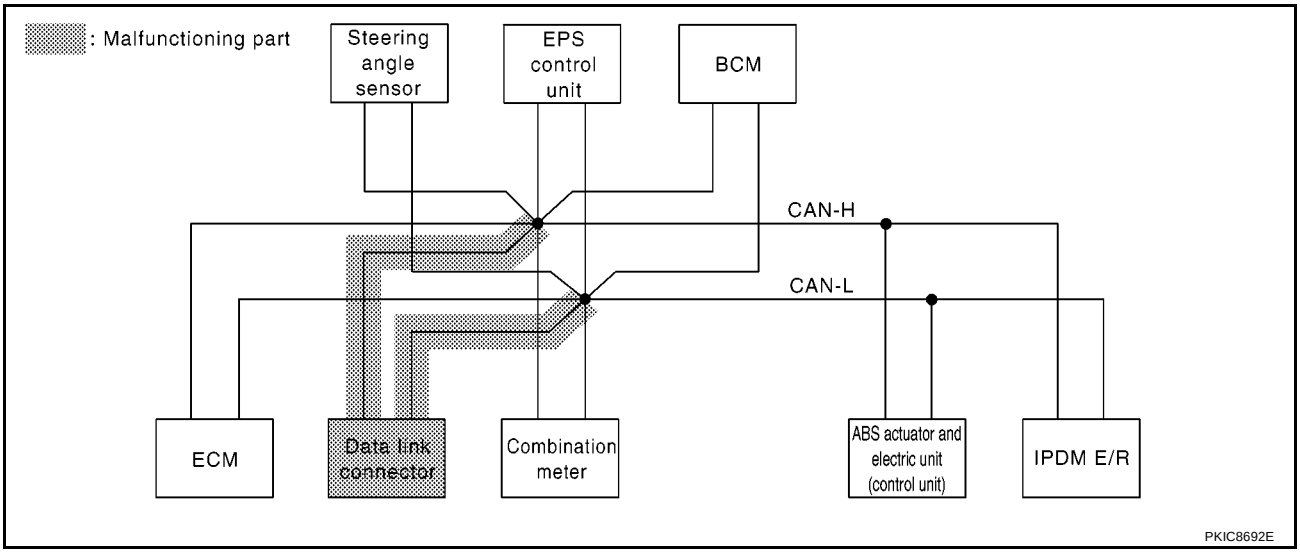
PKIC8691E

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)	–

PKIC9346E



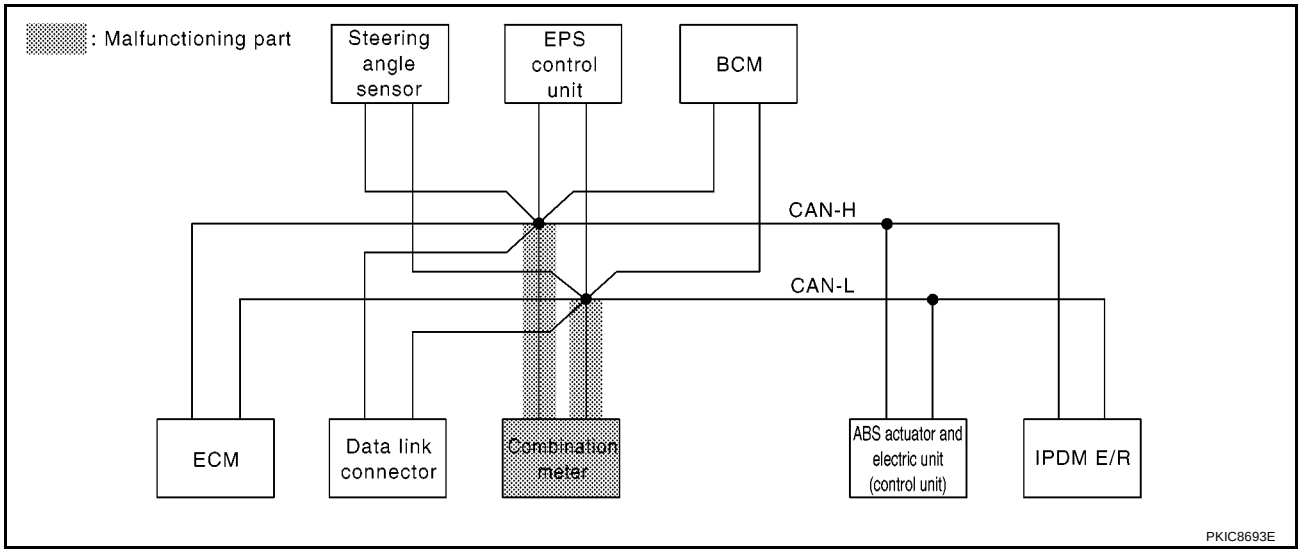
PKIC8692E

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



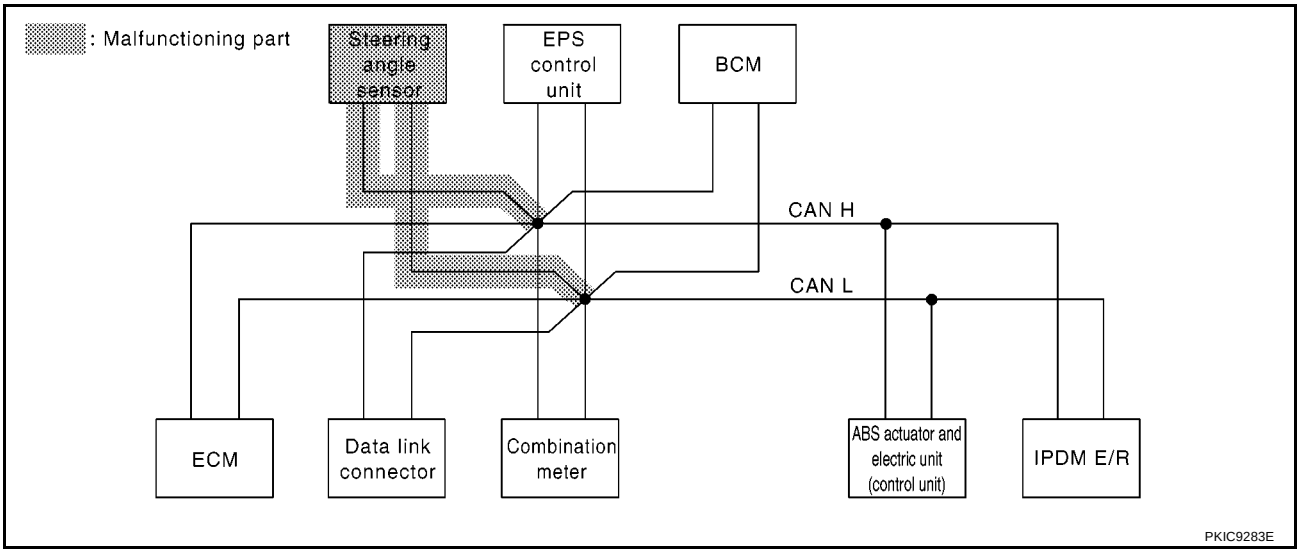
PKIC8693E

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)	–

PKIC9348E



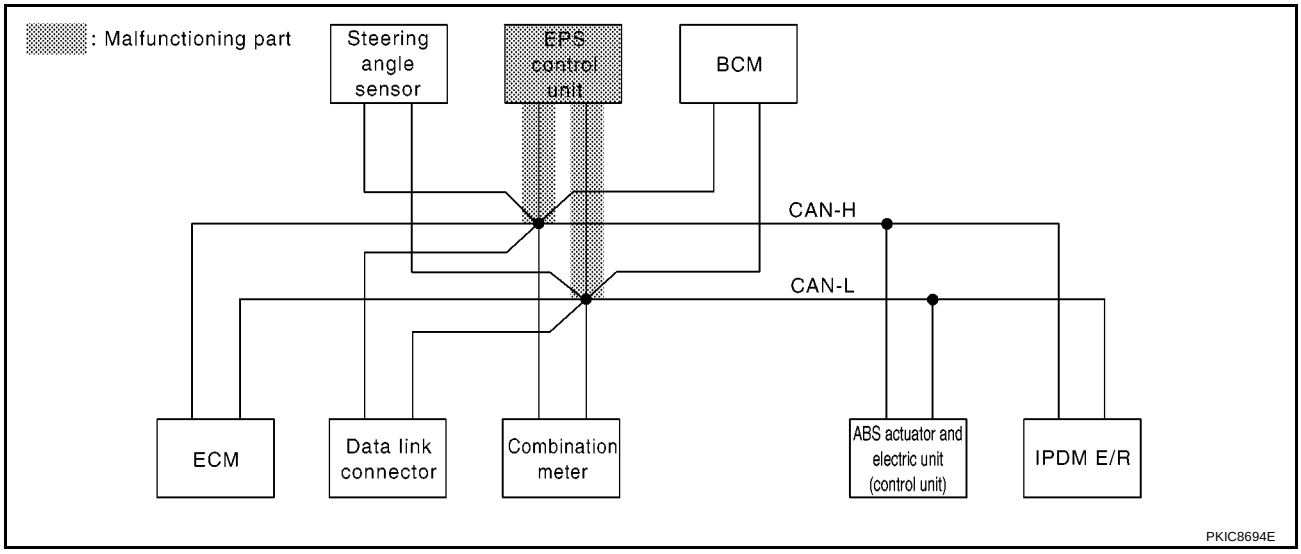
PKIC9283E

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	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)	—

PKIC9349E



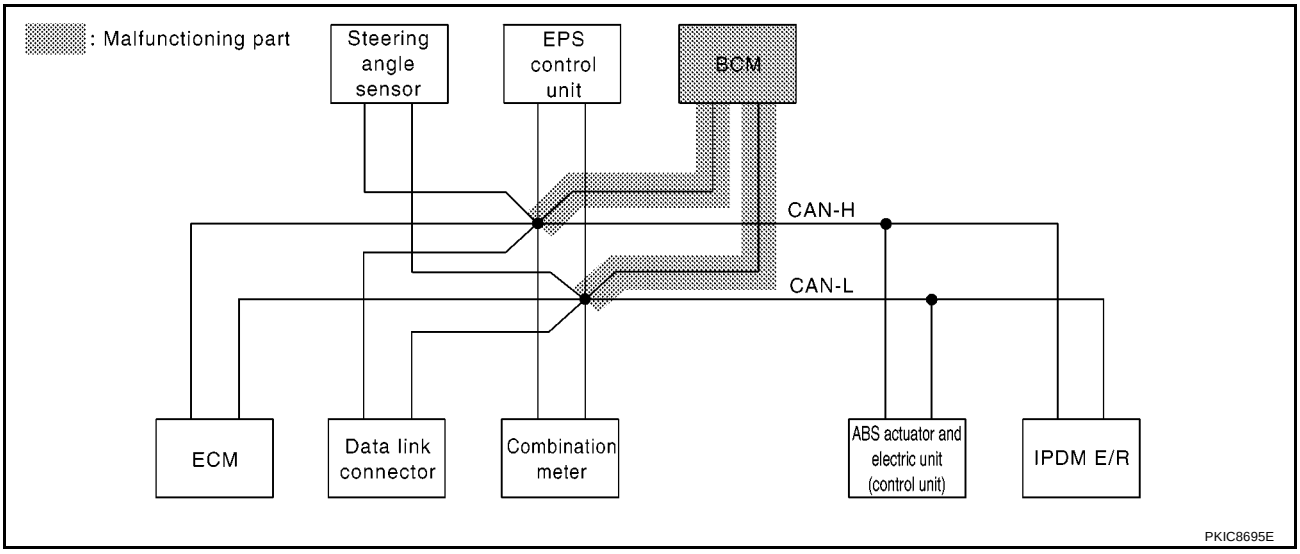
PKIC8694E

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)	—

PKIC9350E



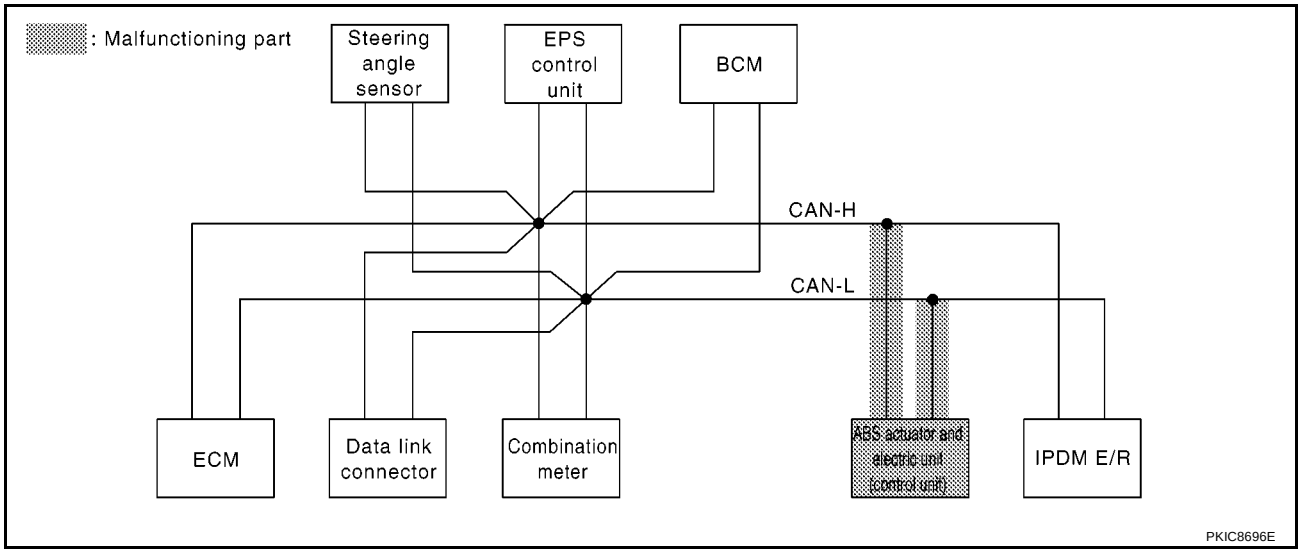
PKIC8695E

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



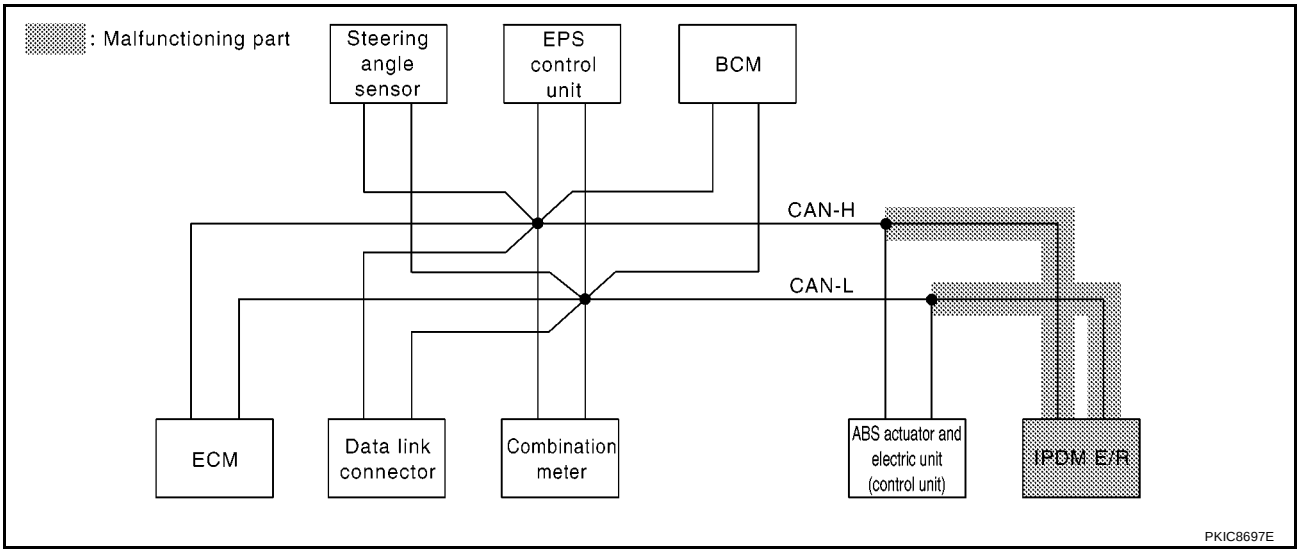
PKIC8696E

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	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) ✓	—

PKIC9352E



PKIC8697E

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 (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) ✓	—

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 (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)	—

PKIC9354E

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	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

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

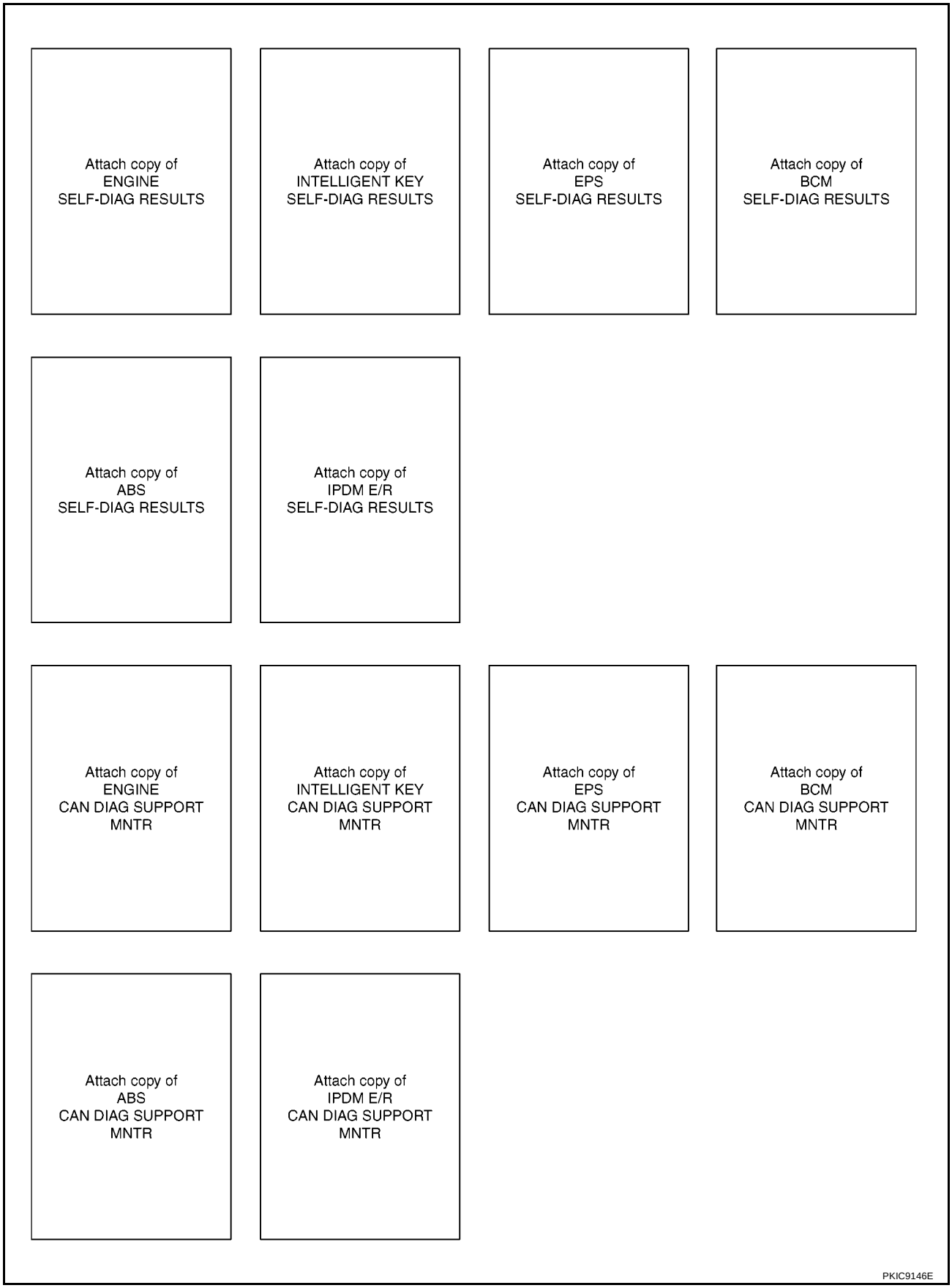
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	METER /M&A	I-KEY	STRG	BCM /SEC	VDC/TCS /ABS	IPDM E/R		
ENGINE	No indication	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)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

PKIC9203E


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
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ENGINE
CAN DIAG SUPPORT
MNTR
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MNTR
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MNTR
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ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC9146E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

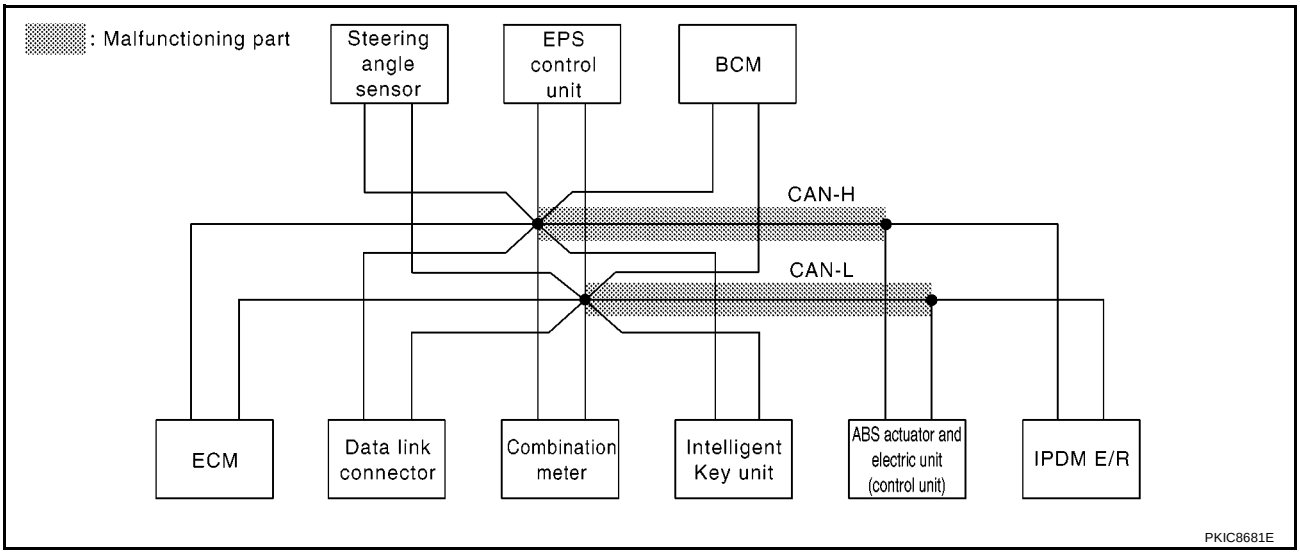
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

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	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) ✓	—

PKIC9356E



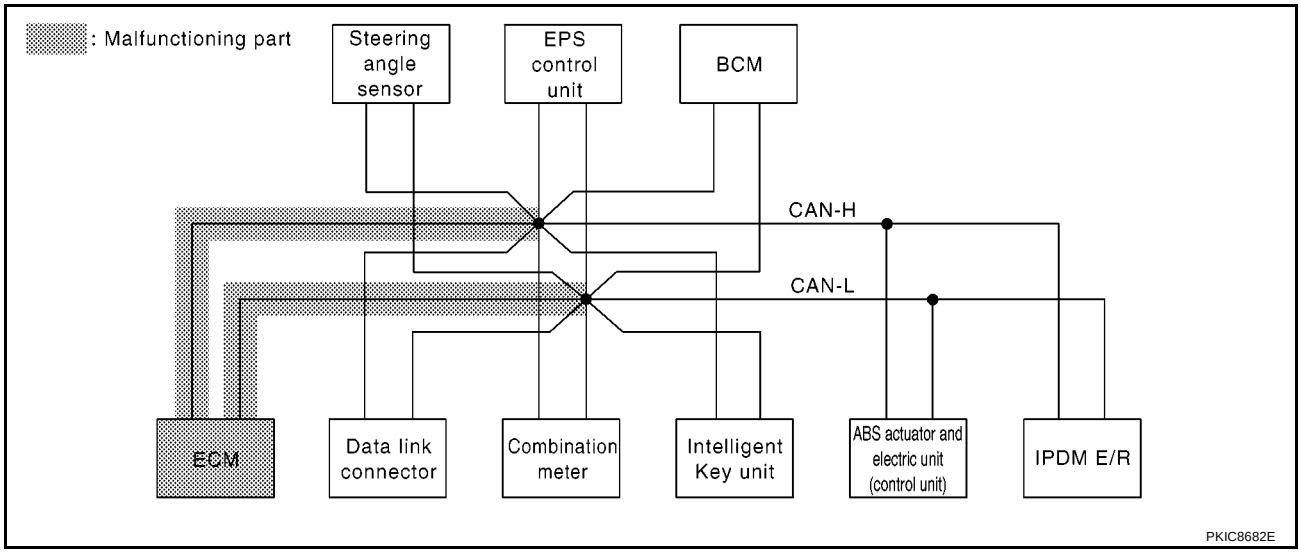
PKIC8681E

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	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)	—

PKIC9357E



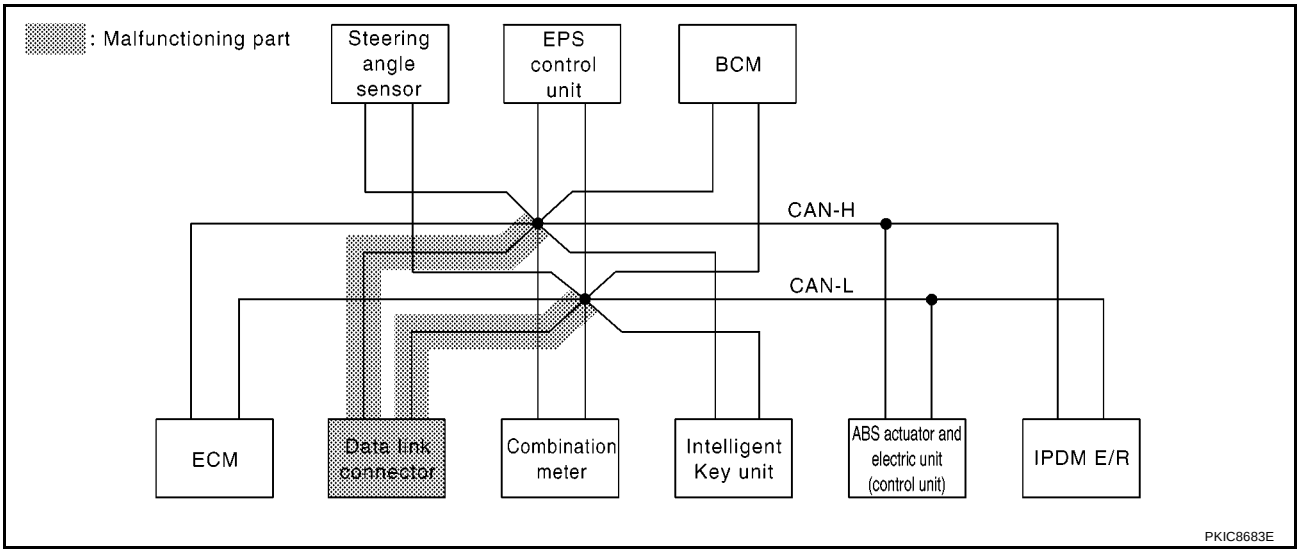
PKIC8682E

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)	—

PKIC9358E



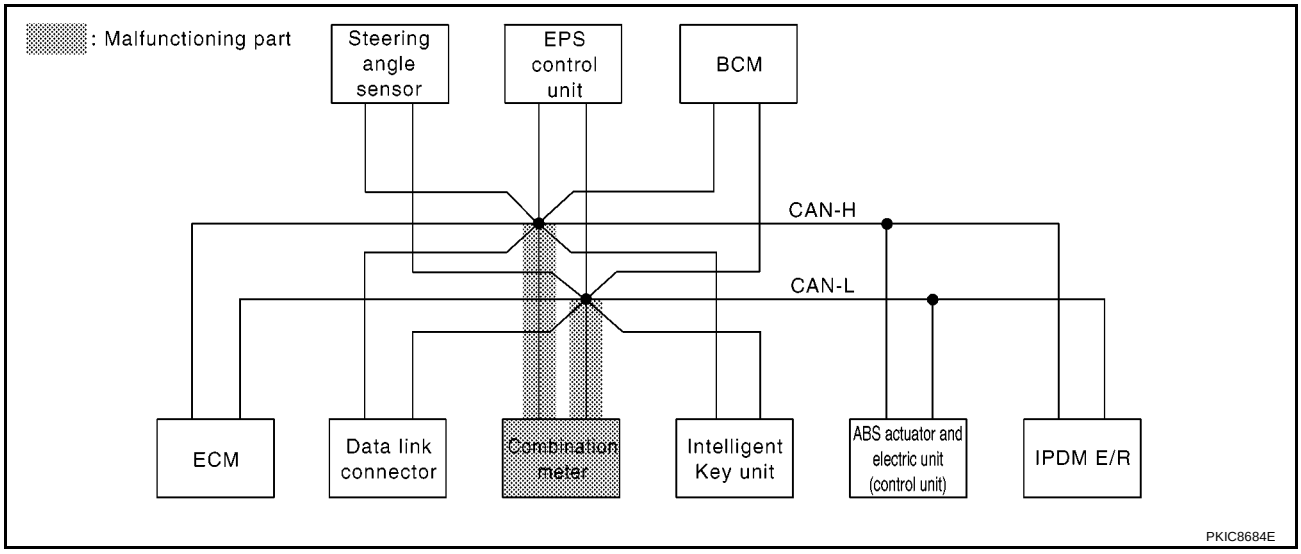
PKIC8683E

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)	—

PKIC9359E



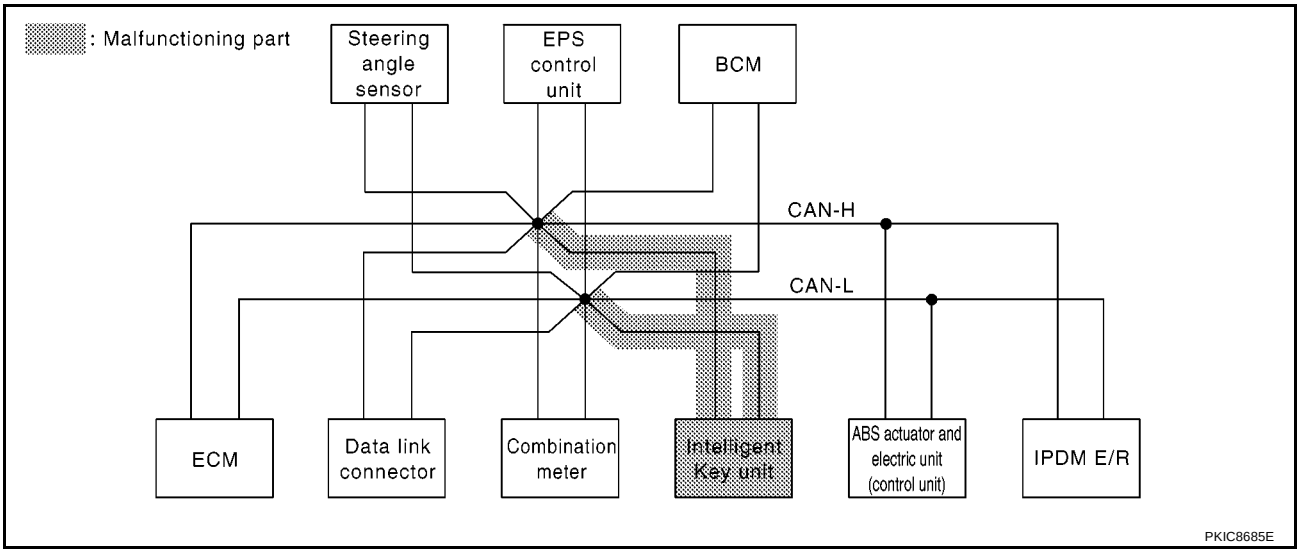
PKIC8684E

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



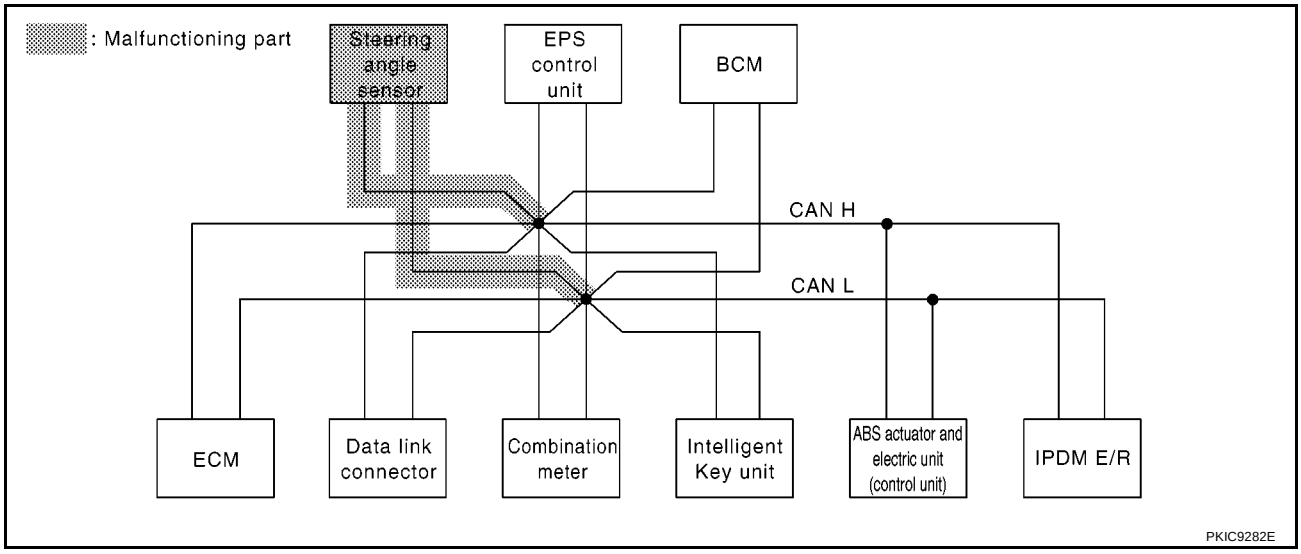
PKIC8685E

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	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



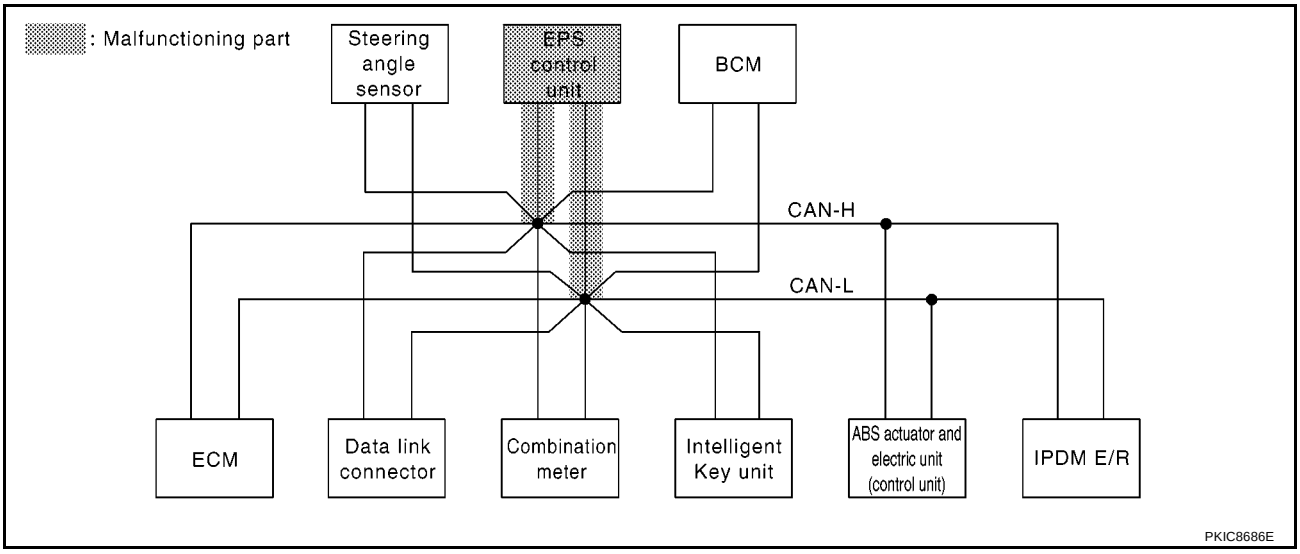
PKIC9282E

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



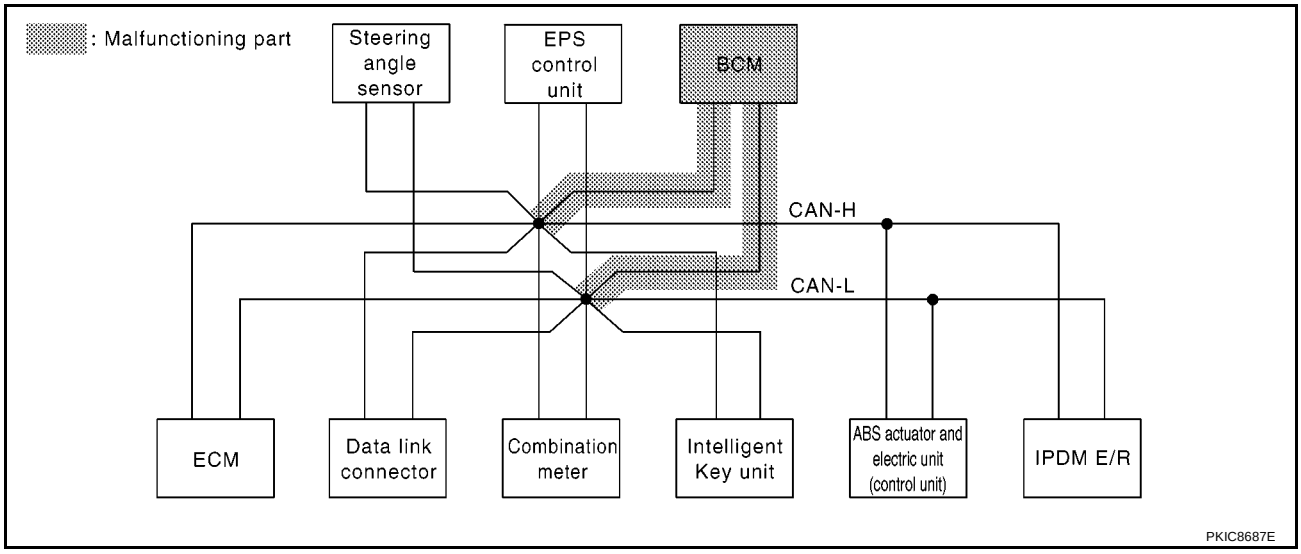
PKIC8686E

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	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



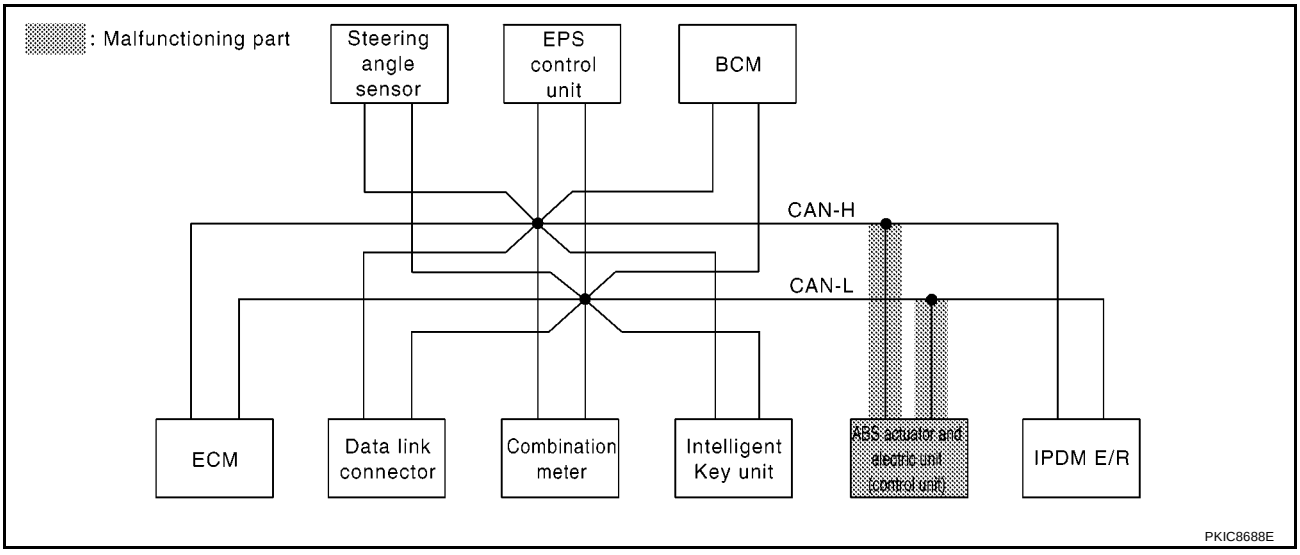
PKIC8687E

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



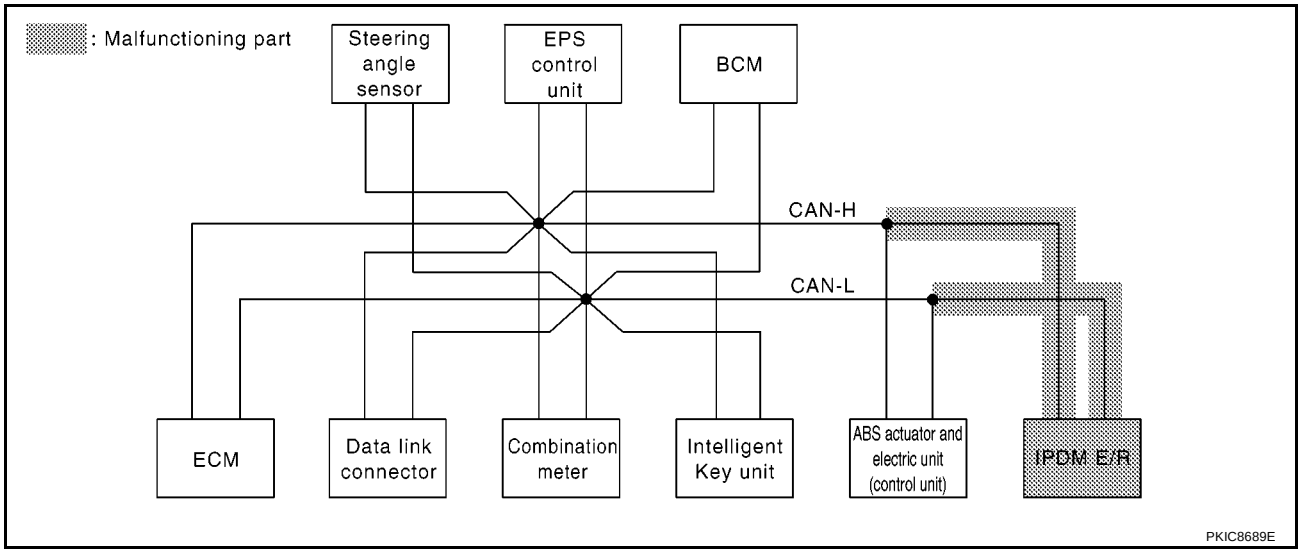
PKIC8688E

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	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) ✓	—

PKIC9365E



PKIC8689E

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

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

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

TROUBLE DIAGNOSIS FOR SYSTEM

PFP:00000

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

BKS001I5

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

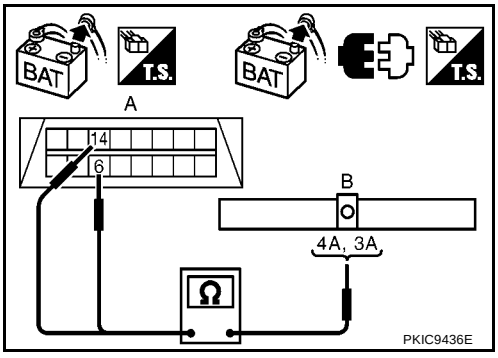
OK or NG

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

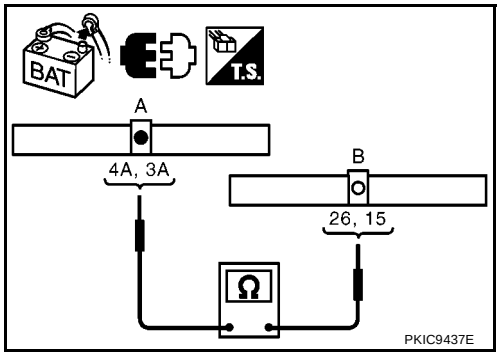
OK >> GO TO 3.
NG >> Repair harness.

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).

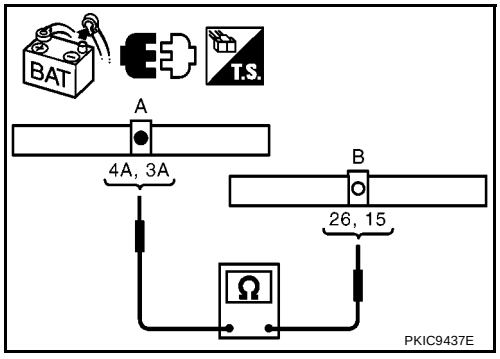
A		B		Continuity
Connector	Terminal	Connector	Terminal	
E101	4A	E32	26	Yes
	3A		15	Yes



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

BKS001I9

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

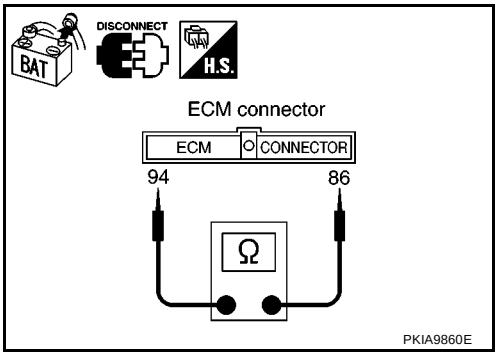
OK >> GO TO 2.
NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

CR14DE model

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

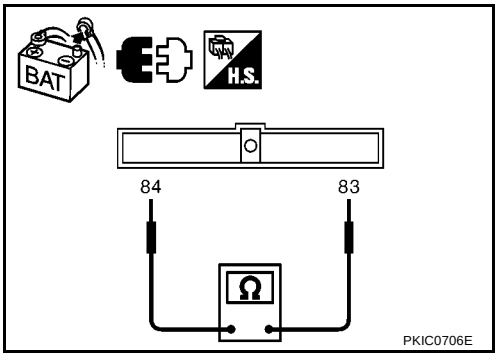
ECM connector	Terminal		Resistance (Approx.)
E40	94	86	108 – 132 Ω



HR16DE model

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

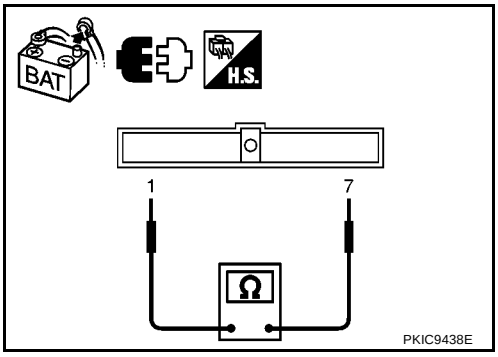
ECM connector	Terminal		Resistance (Approx.)
E40	84	83	108 – 132 Ω



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

BKS001IE

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).

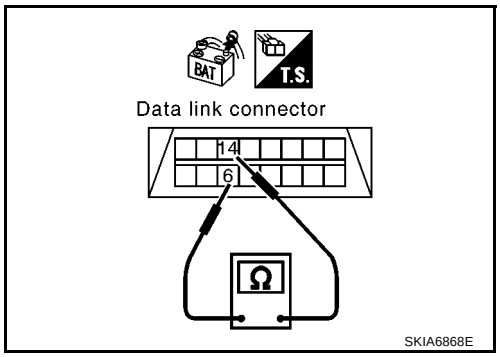
OK or NG

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

BKS001M6

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).

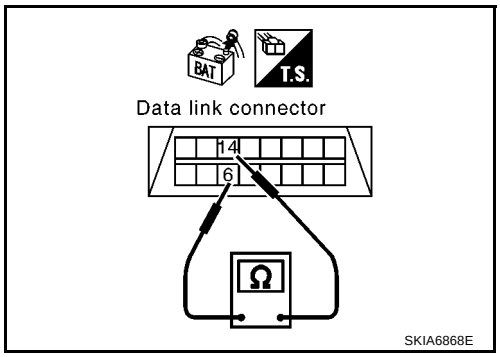
OK or NG

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.

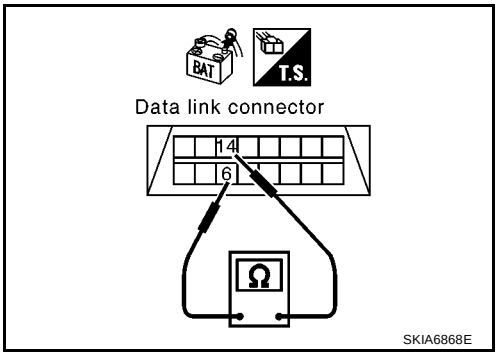
OK or NG

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



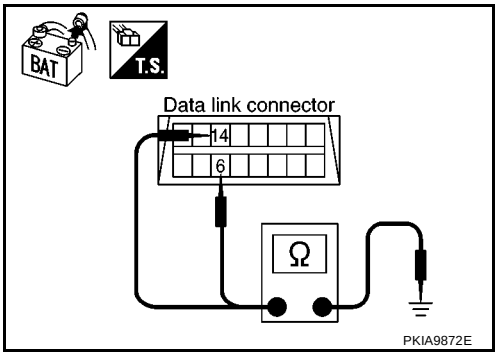
OK or NG

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.

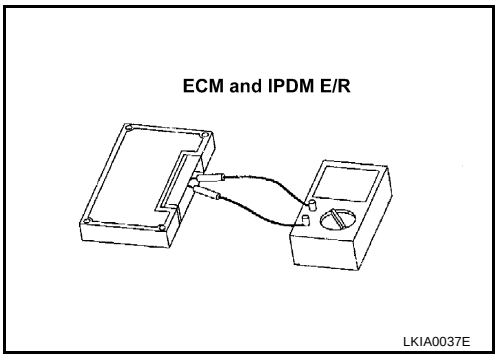
6. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

BKS001IF

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).

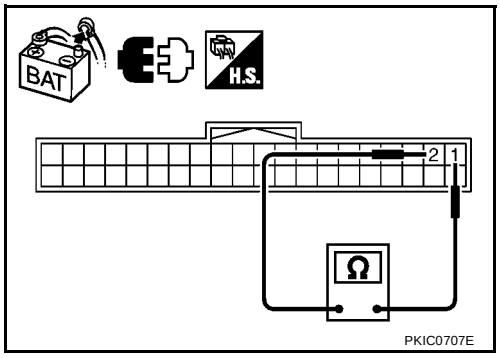
OK or NG

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



PKIC0707E

OK or NG

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

Intelligent Key Unit Circuit Inspection

BKS001IA

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).

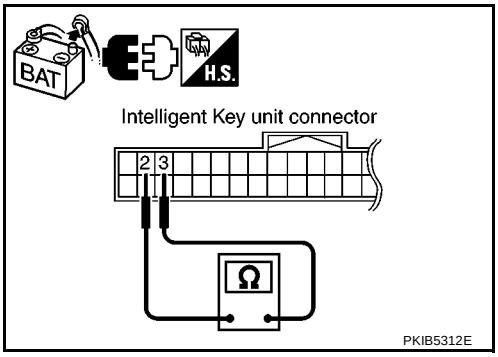
OK or NG

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.

Steering Angle Sensor Circuit Inspection

BKS001IG

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).

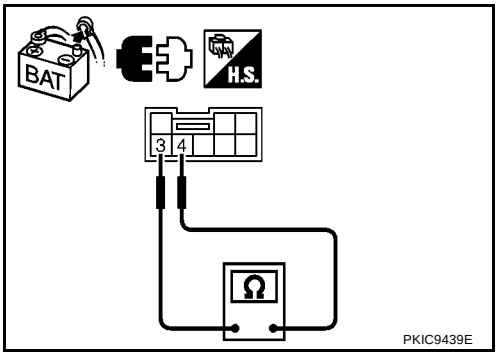
OK or NG

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.

EPS Control Unit Circuit Inspection

BKS001ID

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).

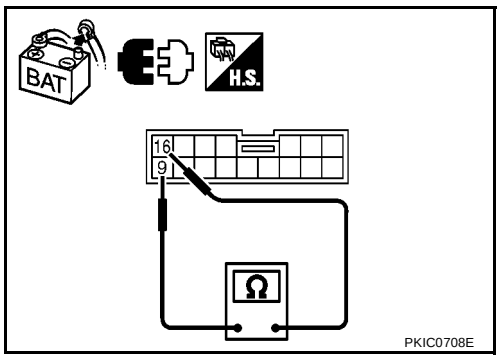
OK or NG

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.

BCM Circuit Inspection

BKS001IC

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).

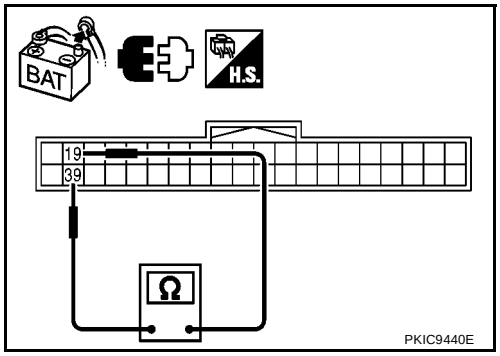
OK or NG

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.

ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

BKS001IJ

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

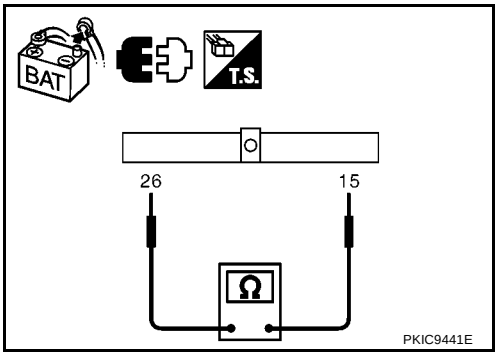
OK >> GO TO 2.
NG >> Repair terminal or connector.

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.

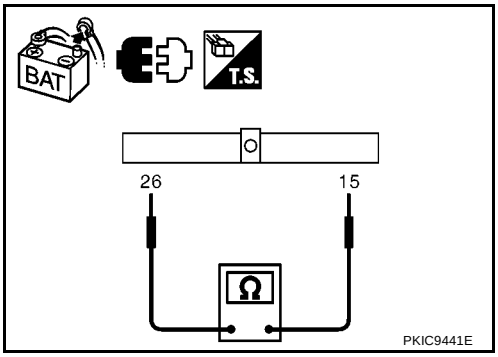
ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E32	26	15	54 – 66 Ω



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.)
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

BKS001IB

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).

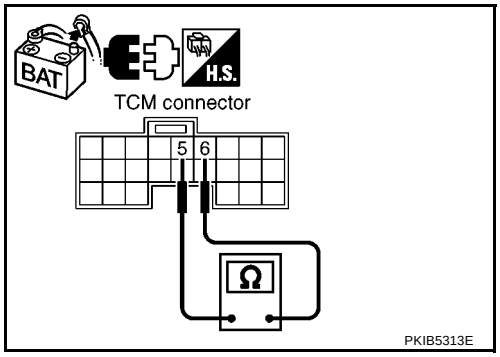
OK or NG

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.

IPDM E/R Circuit Inspection

BKS001IK

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).

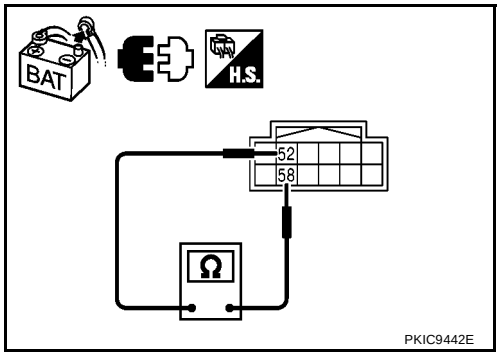
OK or NG

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).

CAN Communication Circuit Inspection

BKS001IL

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.

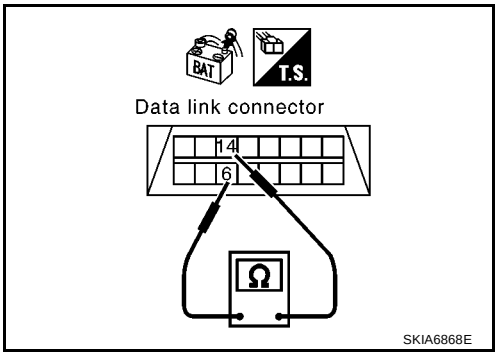
OK or NG

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



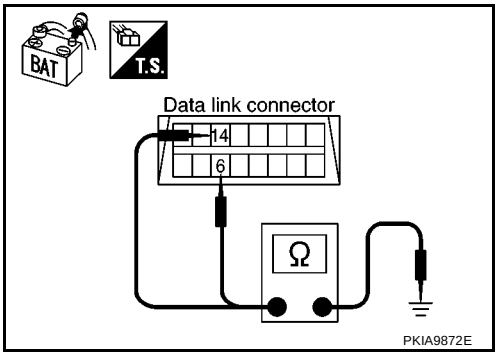
OK or NG

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.

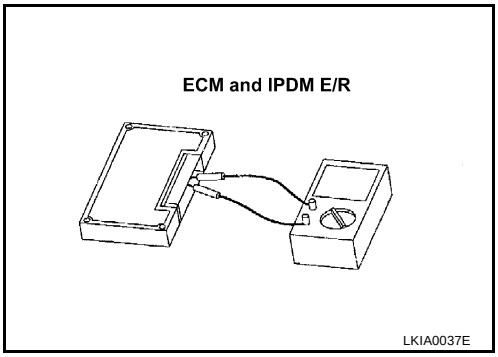
4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

BKS001IM

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”" .