SECTION LAN

LAN SYSTEM

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PRECAUTIONS

PFP:00001

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

UKS0017I

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

Precautions When Using CONSULT-II

UKS0017J

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

CAUTION:

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

CHECK POINTS FOR USING CONSULT-II

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

Precautions For Trouble Diagnosis

UKS0017K

CAN SYSTEM

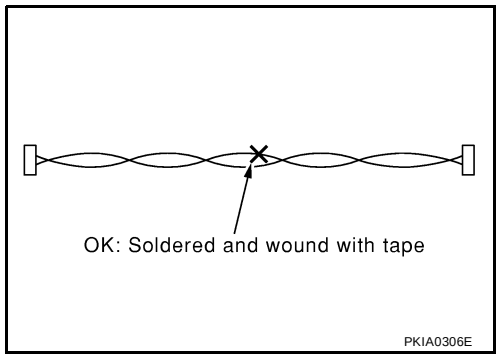
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precautions For Harness Repair

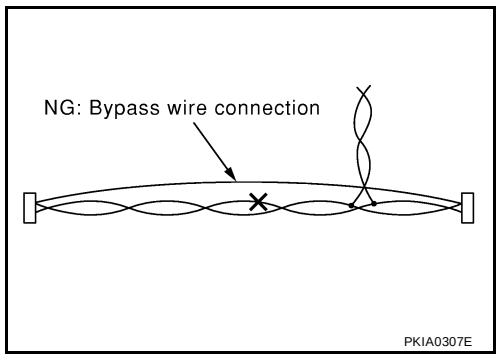
UKS0017L

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

UKS004SP

WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

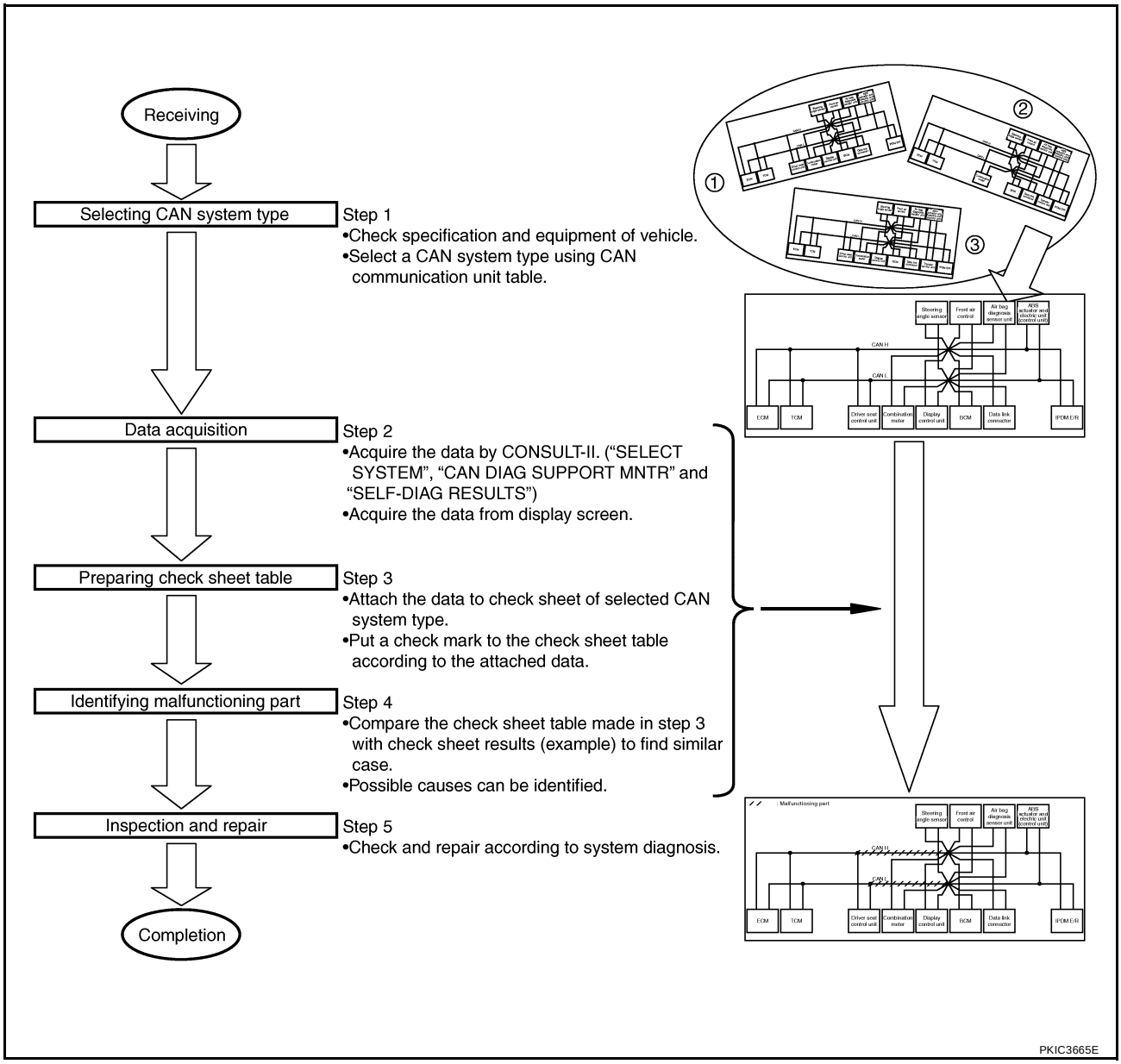
- CAN communication line is open. (CAN H, CAN L, or both)
- CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)
- The areas related to CAN communication of unit is malfunctioning.

WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

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

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-141, "TROUBLE DIAGNOSIS FOR SYSTEM" .

Diagnosis Procedure

UKS004SQ

SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)

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

(Example) Wagon/2WD/VK56DE/AT/VDC/With automatic drive positioner/With navigation system

CAN Communication Unit

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

Body type	Wagon					
Axle	2WD			4WD		
Engine	VK56DE					
Transmission	A/T					
Brake control	VDC					
Automatic drive positioner		×	×		×	×
Navigation system			×			×
CAN system type	1	2	3	4	5	6
CAN system trouble diagnosis	XX-XX	XX-XX	XX-XX	XX-XX	XX-XX	XX-XX

×: Applicable

Check basic specification of the vehicle.

Select "×" if it is model with automatic drive positioner.

Select "×" if it is model with navigation 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 3.

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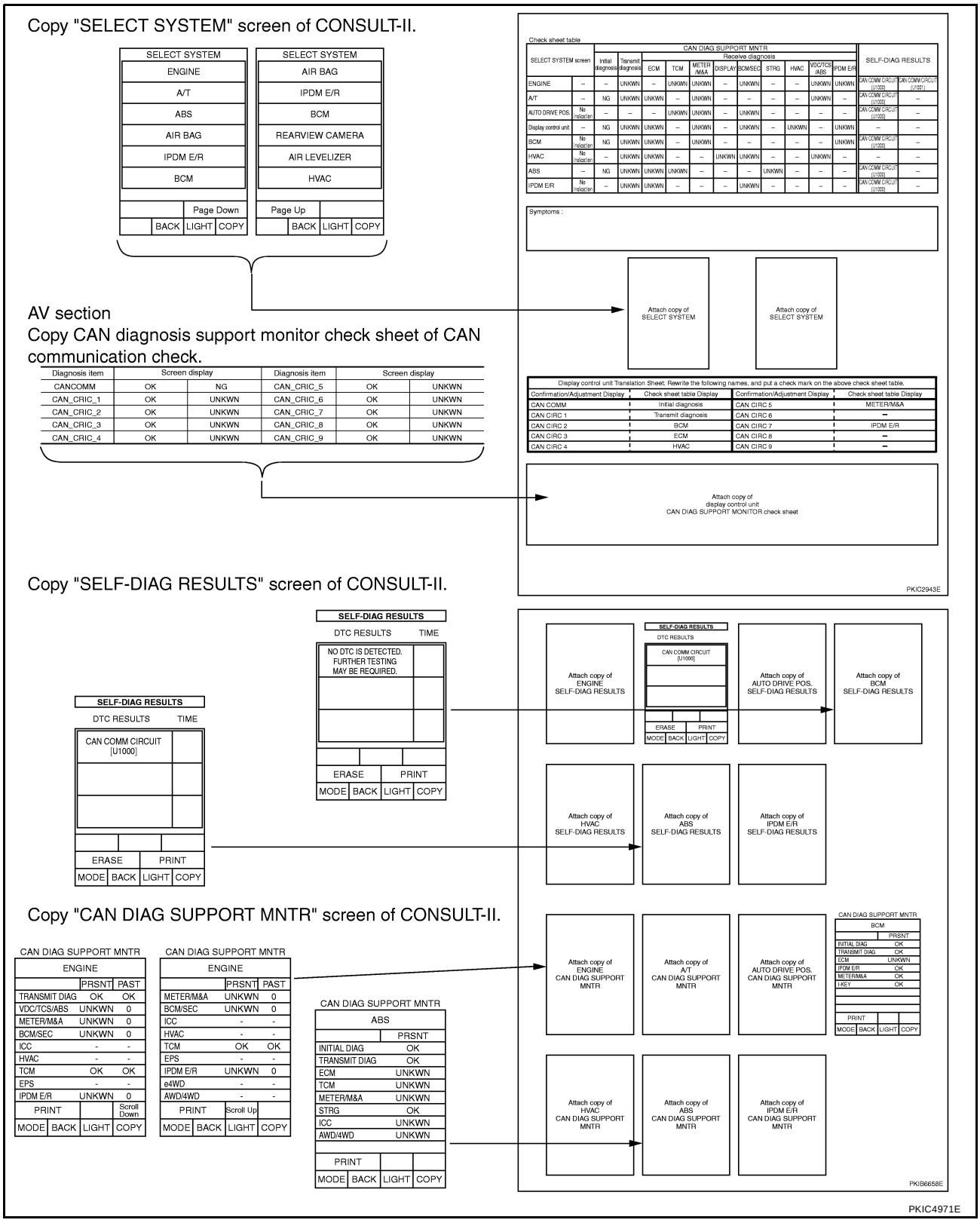
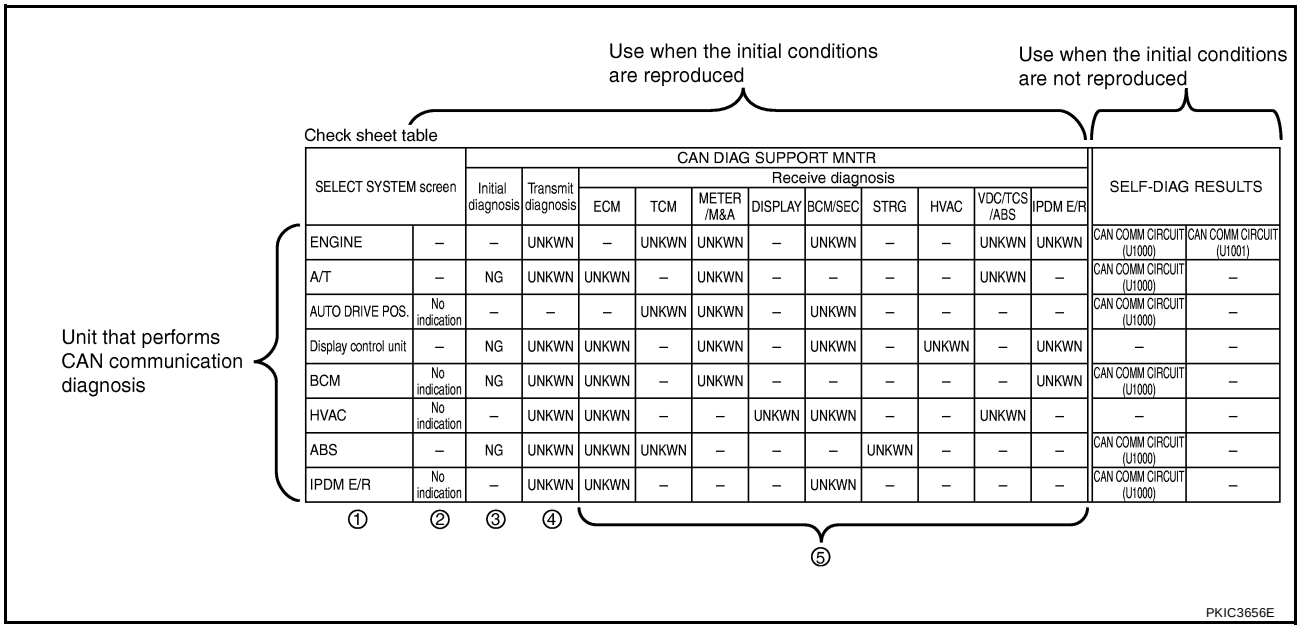
ACQUISITION OF DATA BY CONSULT-II

Attach the data acquired by CONSULT-II on the check sheet determined according to CAN system type.(For display control unit, transfer the data from the display screen of the vehicle to the CAN diagnosis support monitor check sheet AV-144, "CAN Communication Line Check" .)



HOW TO USE CHECK SHEET TABLE



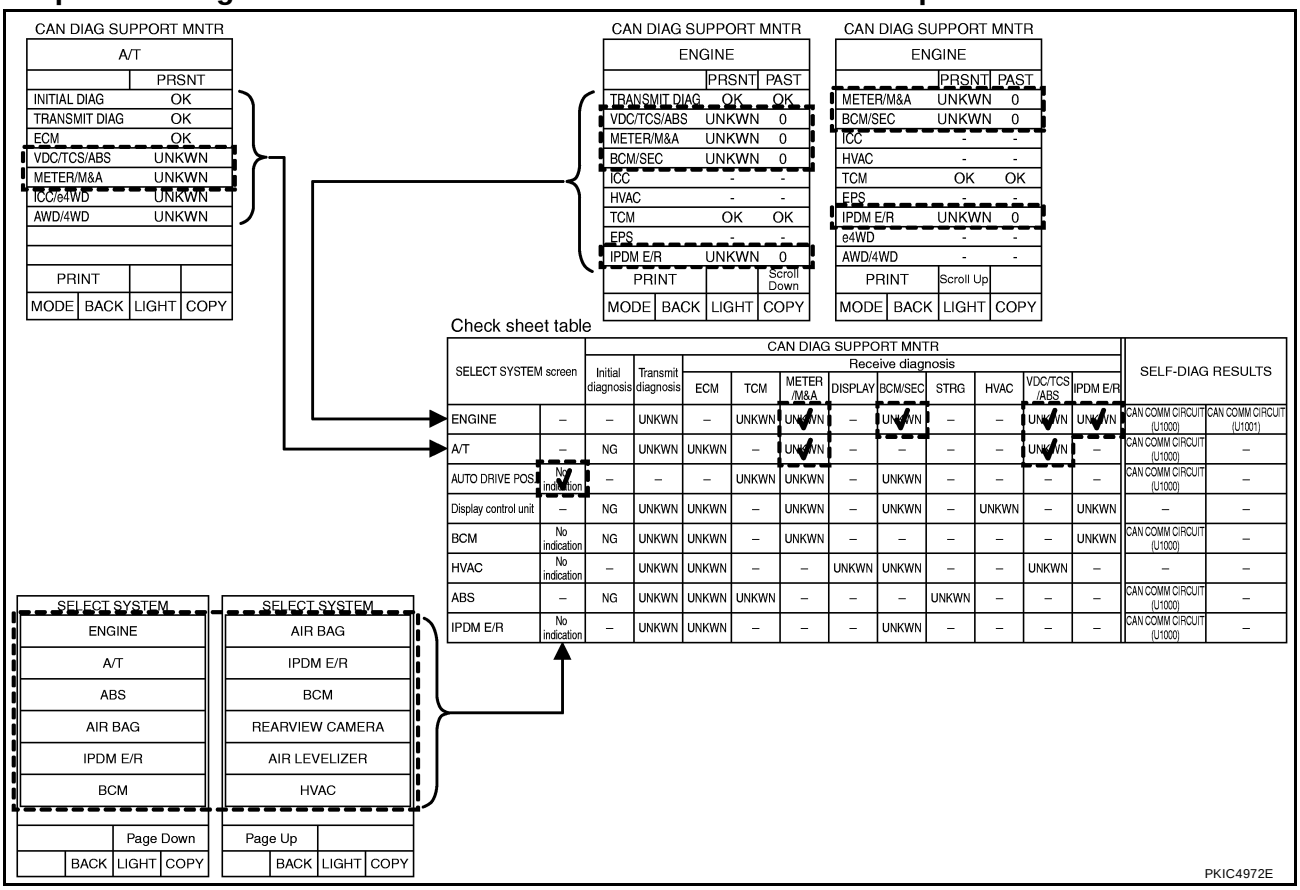
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
AUTO DRIVE POS.	No indication	–	–	–	UNKWN	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
Display control unit	–	NG	UNKWN	UNKWN	–	UNKWN	–	UNKWN	–	UNKWN	–	UNKWN	–	–
BCM	No indication	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
HVAC	No indication	–	UNKWN	UNKWN	–	–	UNKWN	UNKWN	–	–	UNKWN	–	–	–
ABS	–	NG	UNKWN	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	CAN COMM CIRCUIT (U1000)	–
IPDM E/R	No indication	–	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
①	②	③	④	⑤										

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.)
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-14, "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.

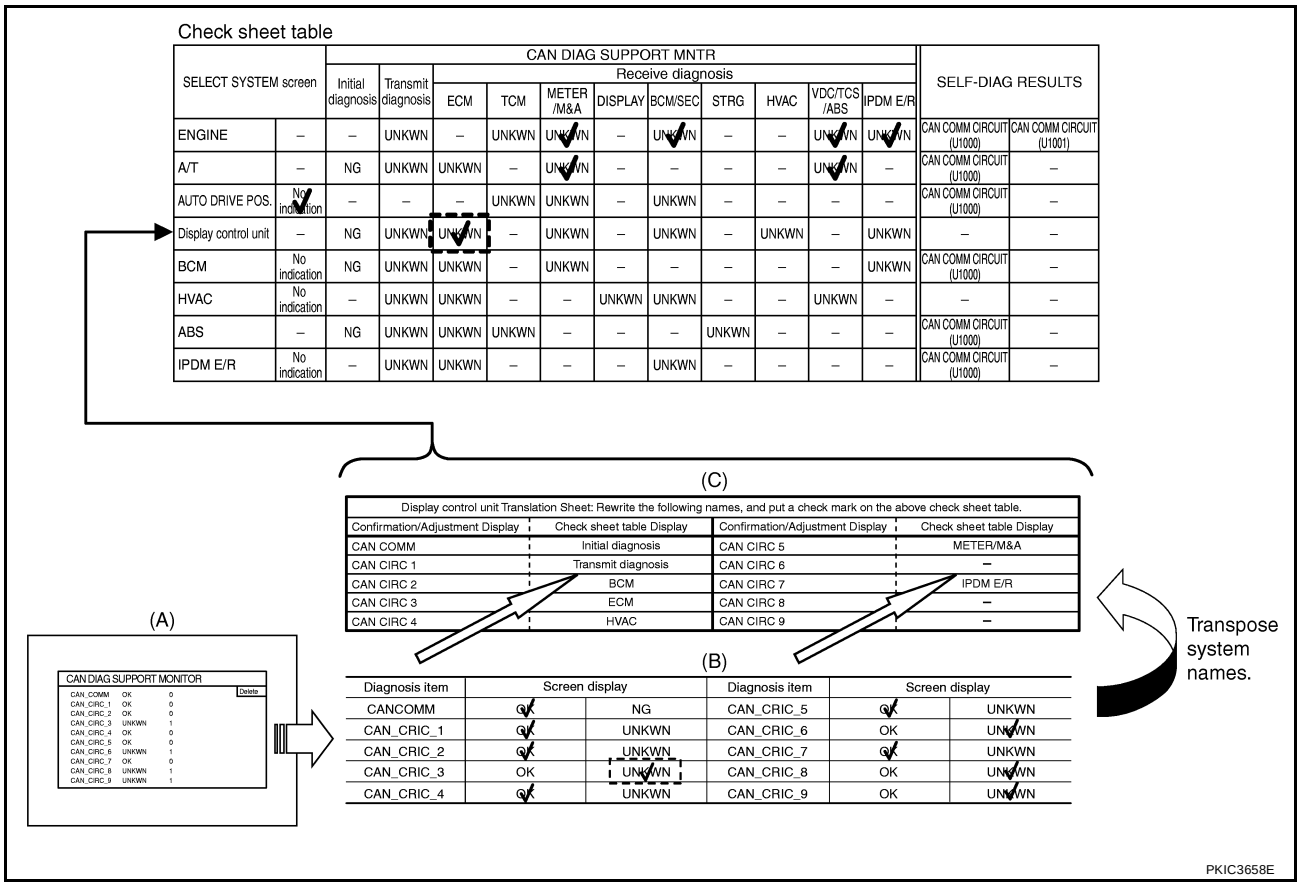
   NOTE:
   Put a check mark to “No indication” of AUTO DRIVE POS. because AUTO DRIVE POS. is not displayed on “SELECT SYSTEM” screen.

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

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

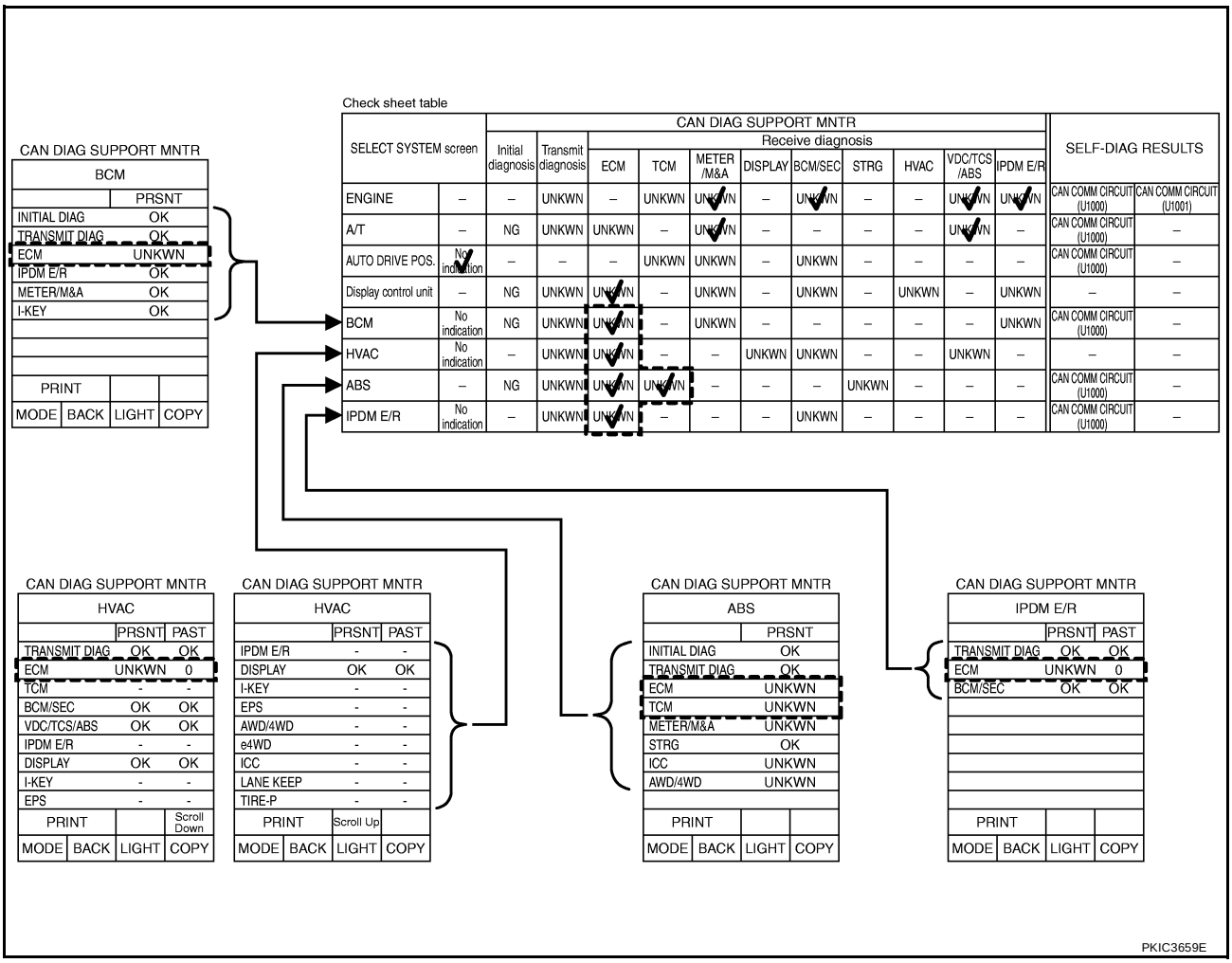
3. Confirm the unit name that “UNKWN” is displayed on the copy of “CAN DIAG SUPPORT MNTR” screen of “A/T” as well as “ENGINE”. And then, put a check mark to the check sheet table.

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



4. Display control unit reads the CAN diagnosis support monitor check sheet (B) AV-144, "CAN Communication Line Check" transferred from the display screen (A). The transferred CAN diagnosis support monitor check sheet is copied to the Check sheet, and conversed according to the Display control unit Translation Sheet (C). And then put a check mark to the check sheet table.

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



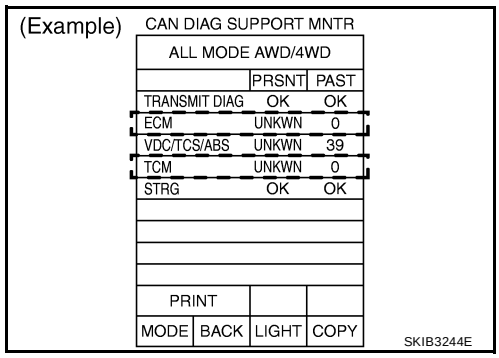
5. Confirm the unit name that “UNKWN” is displayed on the copy of “CAN DIAG SUPPORT MNTR” screen of “BCM”, “HVAC”, “ABS” and “IPDM E/R” as well as “ENGINE”. And then, put a check mark to the check sheet table.

NOTE:

- For “BCM”, “UNKWN” is displayed on “ECM”. Put a check mark to it.
- For “HVAC”, “UNKWN” is displayed on “ECM”. Put a check mark to it.
- For “ABS”, “UNKWN” is displayed on “ECM”, “TCM”, “METER/M&A”, “ICC” and “AWD/4WD”. But put a check mark to “ECM” and “TCM” because “UNKWN” is listed on the column of reception diagnosis of the check sheet table.
- For “IPDM E/R”, “UNKWN” is displayed on “ECM”. Put a check mark to it.

CAUTION:

“ALL MODE AWD/4WD” puts a check mark on the check sheet when “Present” is “UNKWN” and “Past” is “0”.



The arranged results of CAN diagnosis support monitor

Check sheet table

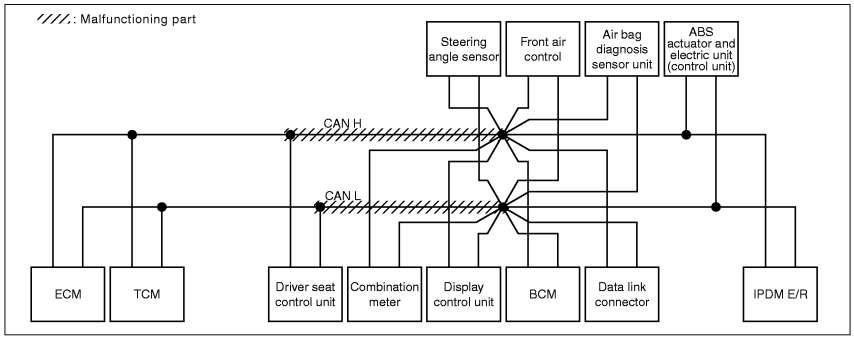
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR											SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis										
				ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM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

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

Case 2
Check harness between driver seat control unit and data link connector.

Check sheet results (example)

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



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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.

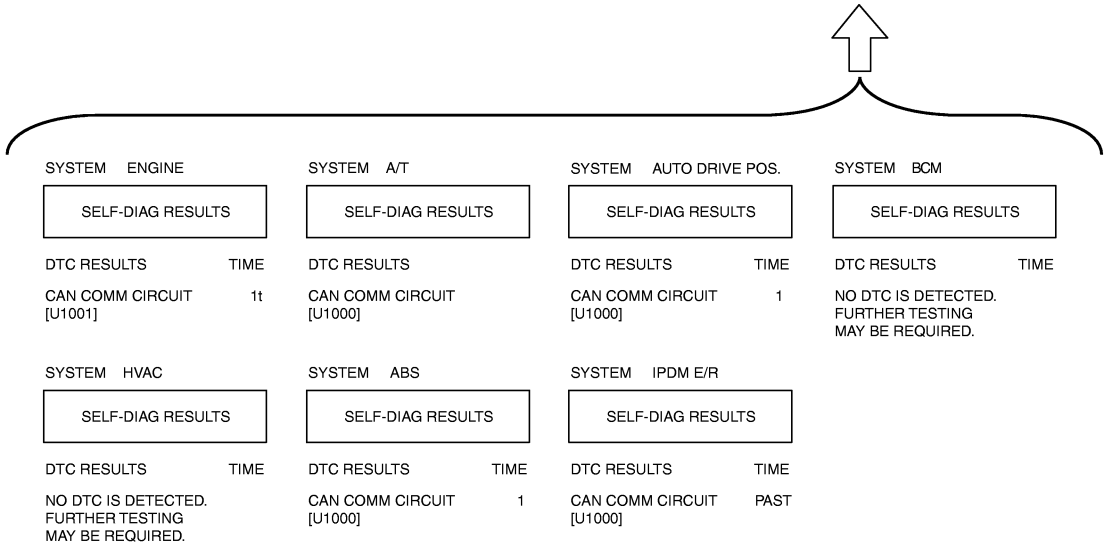
6. Perform system diagnosis for possible causes identified.
7. Perform diagnosis again after inspection and repair. Make sure that repair is completely performed, and then end the procedure.

Start CAN system trouble diagnosis if this procedure can be confirmed. Refer to LAN-30, "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	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
A/T	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000) ✓	–
AUTO DRIVE POS.	No indication	–	–	–	UNKWN	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000) ✓	–
Display control unit	–	NG	UNKWN	UNKWN	–	UNKWN	–	UNKWN	–	UNKWN	–	UNKWN	–	–
BCM	No indication	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
HVAC	No indication	–	UNKWN	UNKWN	–	–	UNKWN	UNKWN	–	–	UNKWN	–	–	–
ABS	–	NG	UNKWN	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	CAN COMM CIRCUIT (U1000) ✓	–
IPDM E/R	No indication	–	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000) ✓	–



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

NOTE:

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

The arranged results of self-diagnosis

Check sheet table

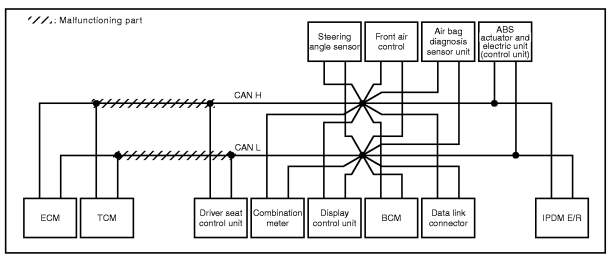
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: Initial diagnosis	Transmit diagnosis	Receive diagnosis: ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELF-DIAG RESULTS	
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1000) ✓
A/T	–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

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

Case 1

Check harness between TCM and driver seat control unit.

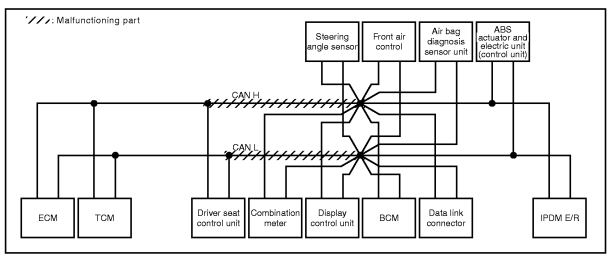
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: Initial diagnosis	Transmit diagnosis	Receive diagnosis: ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELF-DIAG RESULTS	
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1000)
A/T	–	NG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



Case 2

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

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



PKIC3662E

NOTE:

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

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

CAN Diagnostic Support Monitor

UKS004SR

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ECM

(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
ICC	-	-
HVAC	-	-
TCM	OK	OK
EPS	-	-
IPDM E/R	OK	OK
PRINT		Scroll Down
MODE	BACK	LIGHT	COPY

CAN DIAG SUPPORT MNTR

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

PKIC3562E

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

Display Results (Present)

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

Display Results (Past)

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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TCM

(Example)

CAN DIAG SUPPORT MNTR

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

SKIB2335E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
A/T	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN
	ICC/e4WD	ICC/e4WD is not diagnosed.	UNKWN
	AWD/4WD	Make sure of normal reception from transfer control unit.	OK/UNKWN

Display Results (Present)

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

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

(Example)

CAN DIAG SUPPORT MNTR

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

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

Display Results (Present)

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

Display Results (Past)

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

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR BCM

(Example)

CAN DIAG SUPPORT MNTR

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

SKIB1625E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
BCM	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN
	I-KEY	I-KEY is not diagnosed.	OK

Display Results (Present)

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

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR FRONT AIR CONTROL

(Example)

CAN DIAG SUPPORT MNTR

HVAC		
	PRSNT	PAST
TRANSMIT DIAG	OK	OK
ECM	OK	OK
TCM	-	-
BCM/SEC	OK	OK
VDC/TCS/ABS	OK	OK
IPDM E/R	-	-
DISPLAY	OK	OK
I-KEY	-	-
EPS	-	-
PRINT		Scroll Down
MODE	BACK	LIGHT	COPY

CAN DIAG SUPPORT MNTR

HVAC		
	PRSNT	PAST
IPDM E/R	-	-
DISPLAY	OK	OK
I-KEY	-	-
EPS	-	-
AWD/4WD	-	-
e4WD	-	-
ICC	-	-
LANE KEEP	-	-
TIRE-P	-	-
PRINT	Scroll Up	
MODE	BACK	LIGHT	COPY

PKIC4721E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
HVAC	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/–	OK/0/1~39/–
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/–	
	TCM	TCM is not diagnosed.	–	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/–	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/–	
	IPDM E/R	IPDM E/R is not diagnosed.	–	
	DISPLAY	Make sure of normal reception from display control unit.	OK/UNKWN/–	
	I-KEY	I-KEY is not diagnosed.	–	
	EPS	EPS is not diagnosed.	–	
	AWD/4WD	AWD/4WD is not diagnosed.	–	
	e4WD	e4WD is not diagnosed.	–	
	ICC	ICC is not diagnosed.	–	
	LANE KEEP	LANE KEEP is not diagnosed.	–	
	TIRE-P	TIRE-P is not diagnosed.	–	

Display Results (Present)

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

Display Results (Past)

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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TRANSFER CONTROL UNIT

(Example)

CAN DIAG SUPPORT MNTR

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

PKIC3565E

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

Display Results (Present)

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

  CAUTION:

  "UNKWN" is indicated by erasing the self-diagnosis result when any malfunction was detected in past.
- –: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

Display Results (Past)

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

CAUTION:

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

(Example)

CAN DIAG SUPPORT MNTR

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

SKIB3246E

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

(Example)

CAN DIAG SUPPORT MNTR

ABS	
	PRSNT
INITIAL DIAG	OK
TRANSMIT DIAG	OK
ECM	OK
TCM	OK
METER/M&A	UNKWN
STRG	OK
ICC	UNKWN
AWD/4WD	OK

PRINT			
MODE	BACK	LIGHT	COPY

PKIB6078E

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

Display Results (Present)

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

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

(Example)

CAN DIAG SUPPORT MNTR

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

SKIB0595E

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

Display Results (Present)

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

Display Results (Past)

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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DISPLAY CONTROL UNIT

(Example)

CAN DIAG SUPPORT MONITOR

Delete

CAN_COMM	OK	0
CAN_CIRC_1	OK	0
CAN_CIRC_2	OK	0
CAN_CIRC_3	OK	0
CAN_CIRC_4	UNKWN	1
CAN_CIRC_5	UNKWN	1
CAN_CIRC_6	UNKWN	1
CAN_CIRC_7	OK	0
CAN_CIRC_8	OK	0
CAN_CIRC_9	OK	0

SKIB0645E

Unit name	Diagnosis item	Description	"CAN DIAG SUPPORT MONITOR" screen	Error counter (Reference)
Display control unit	CAN COMM	Make sure that microcomputer in ECU works normally.	OK/NG	0/1~50
	CAN CIRC 1	Make sure of normal transmission.	OK/UNKWN	
	CAN CIRC 2	Make sure of normal reception from BCM.	OK/UNKWN	
	CAN CIRC 3	Make sure of normal reception from ECM.	OK/UNKWN	
	CAN CIRC 4	Make sure of normal reception from front air control.	OK/UNKWN	
	CAN CIRC 5	Make sure of normal reception from combination meter.	OK/UNKWN	
	CAN CIRC 6	CAN CIRC 6 is not diagnosed.	UNKWN	
	CAN CIRC 7	Make sure of normal reception from IPDM E/R.	OK/UNKWN	
	CAN CIRC 8	CAN CIRC 8 is not diagnosed.	UNKWN	
	CAN CIRC 9	CAN CIRC 9 is not diagnosed.	UNKWN	

Display Results (Present)

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

Display Results : Error Counter (Reference)

- 0 : It is normal now.
- 1 ~ 50 : Displays when it finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase like 0→1→2...49→50 after returning to the normal condition whenever IGN OFF→ON. If it is over 50, it is fixed to 50 until the self-diagnostic results are erased. Keep this condition until resetting it.

CAN COMMUNICATION

PFP:23710

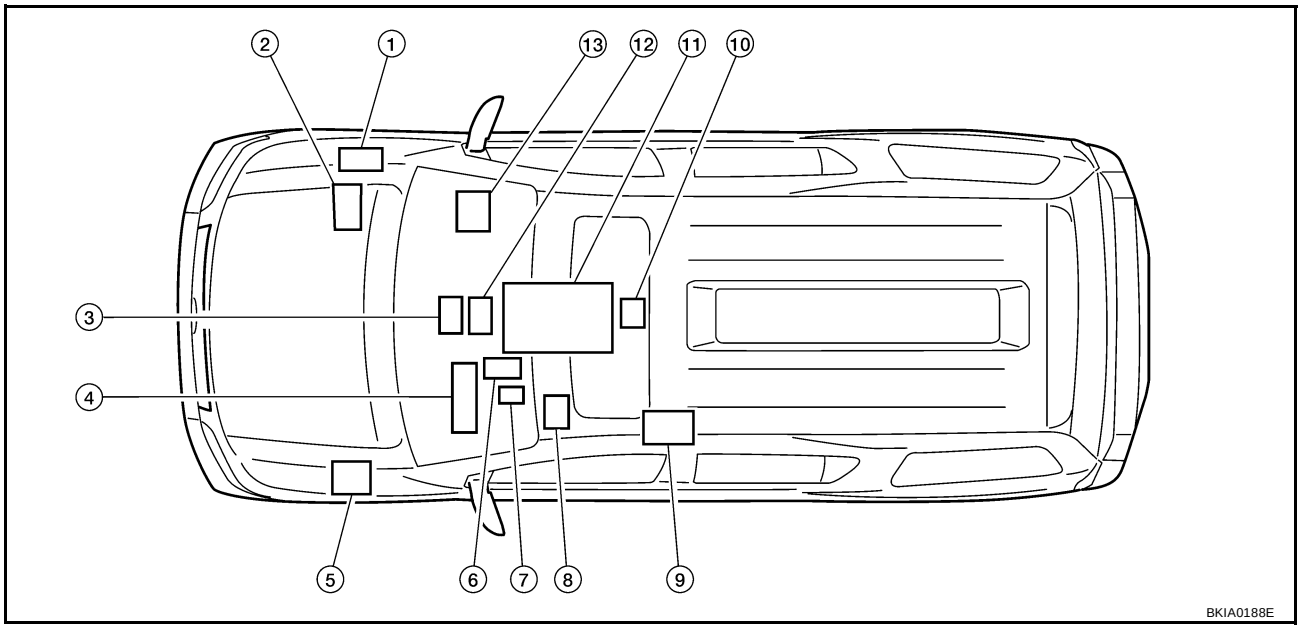
System Description

UKS000NU

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

Component Parts and Harness Connector Location

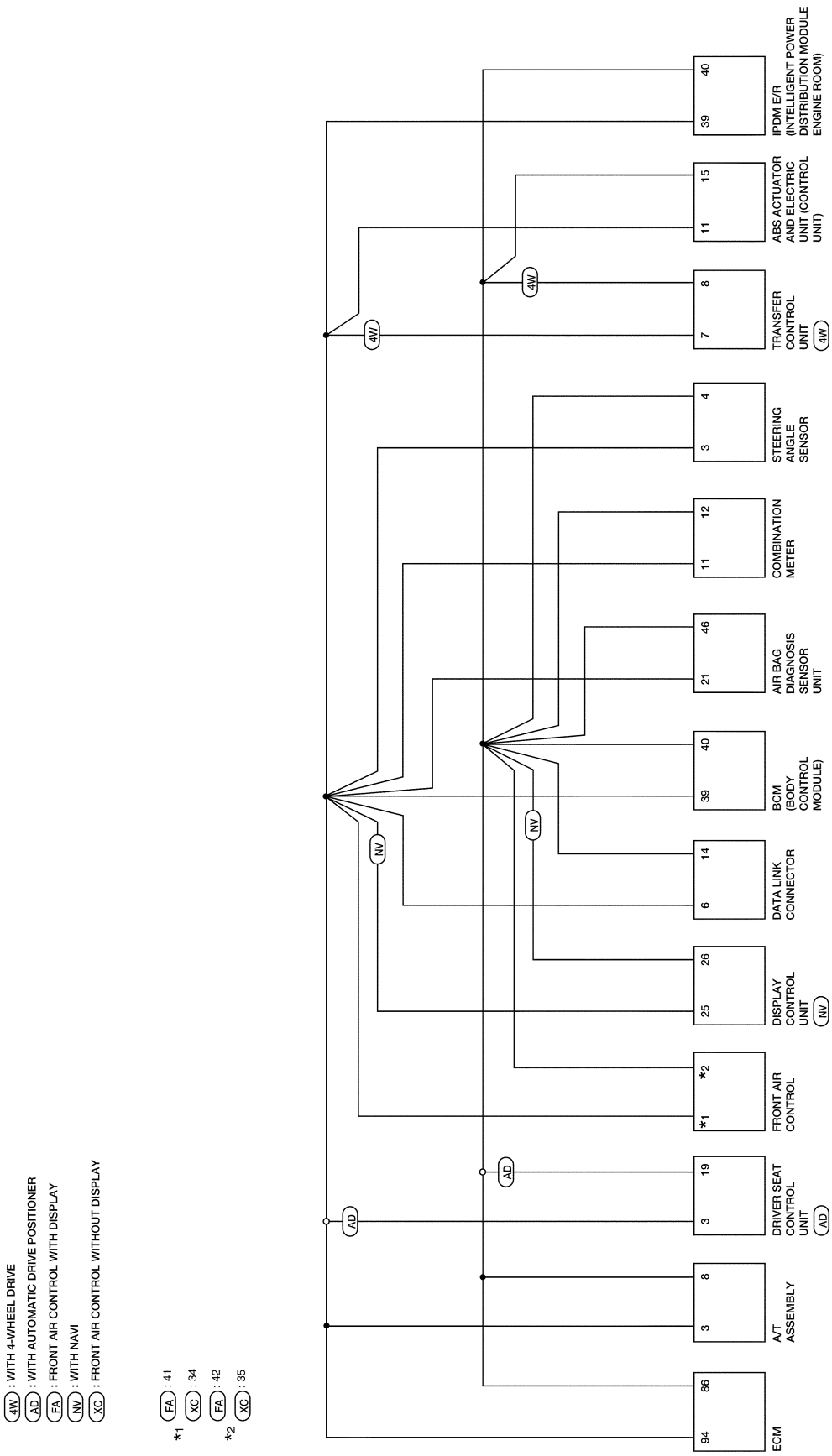
UKS004R3



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

Schematic

UKS004R4

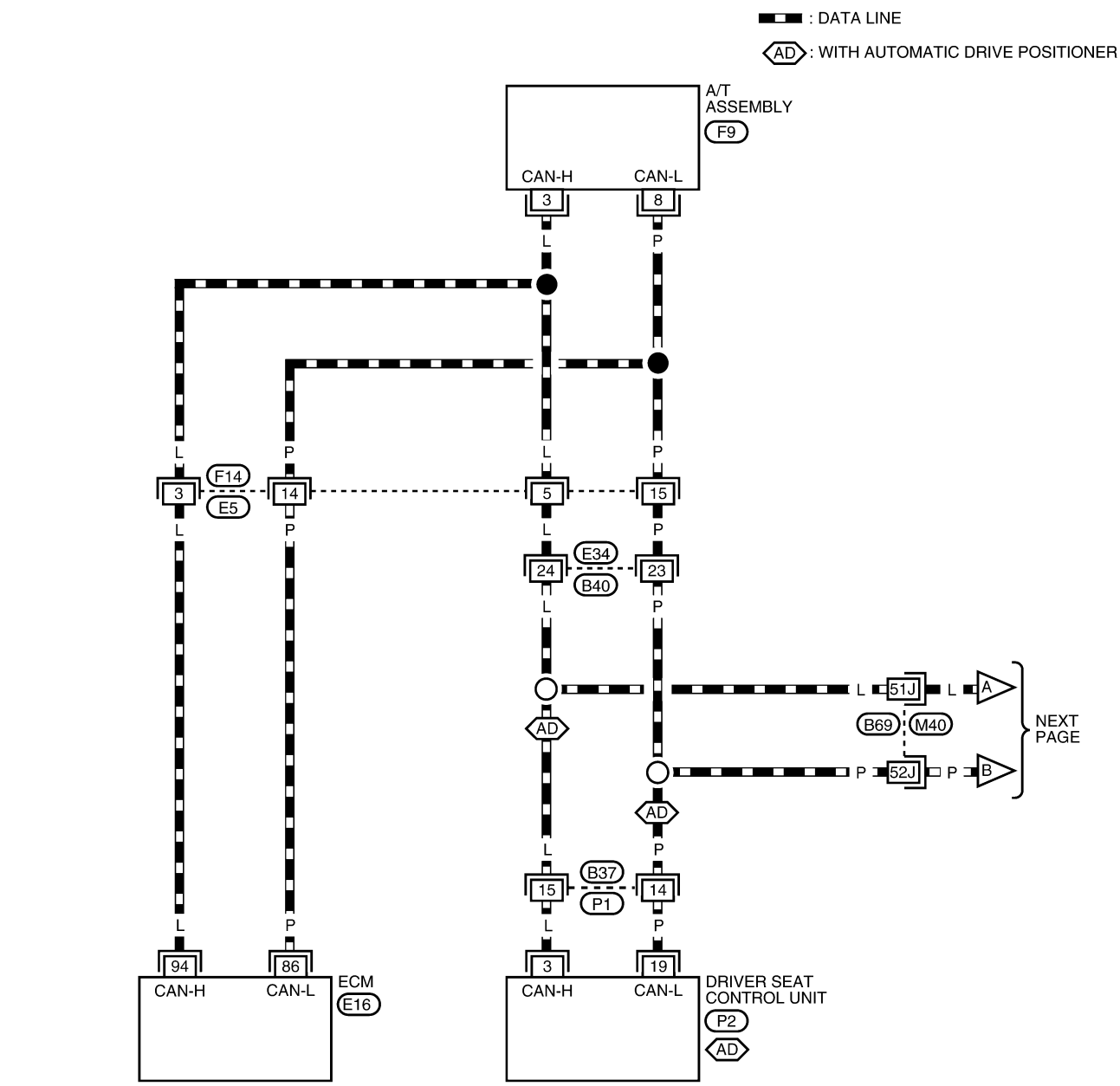


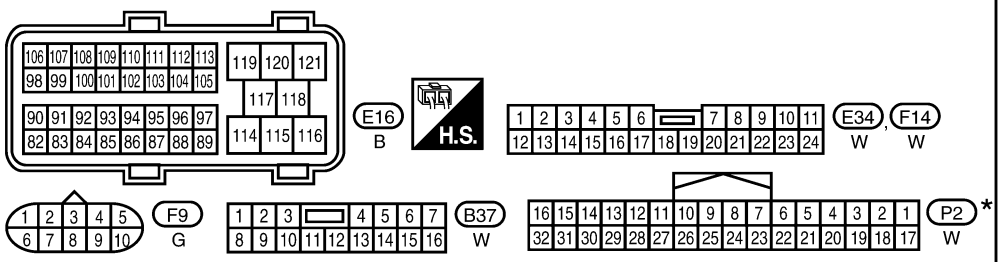
BKWA0642E

Wiring Diagram — CAN —

UKS004R5

LAN-CAN-01

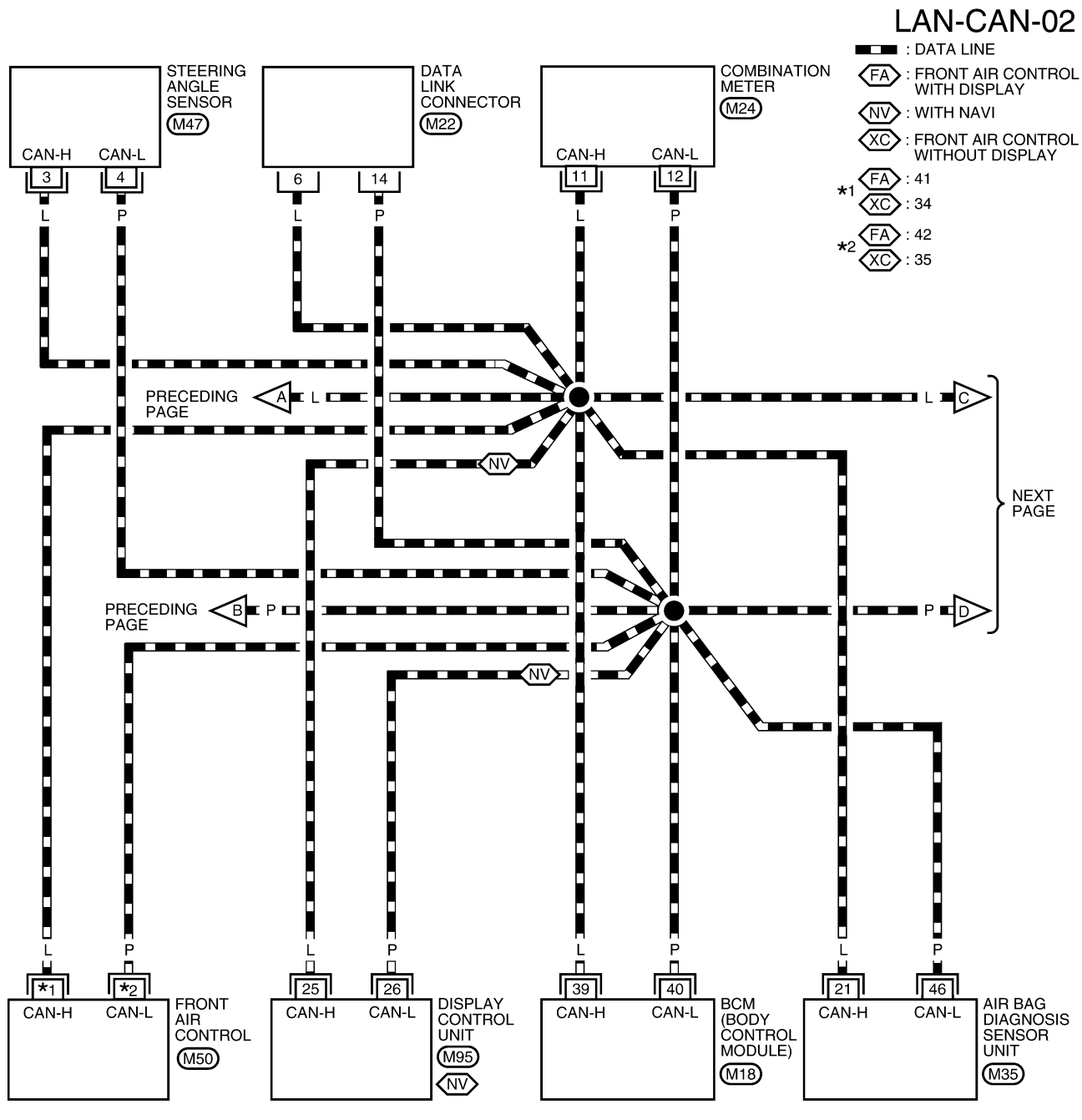


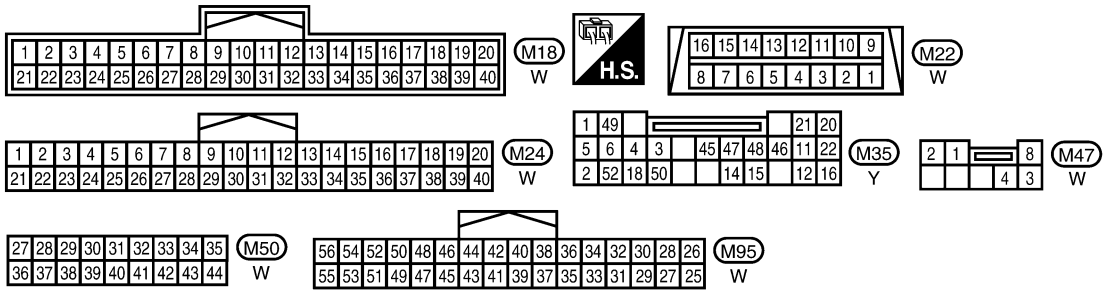


REFER TO THE FOLLOWING.
M40 - SUPER MULTIPLE JUNCTION (SMJ)

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

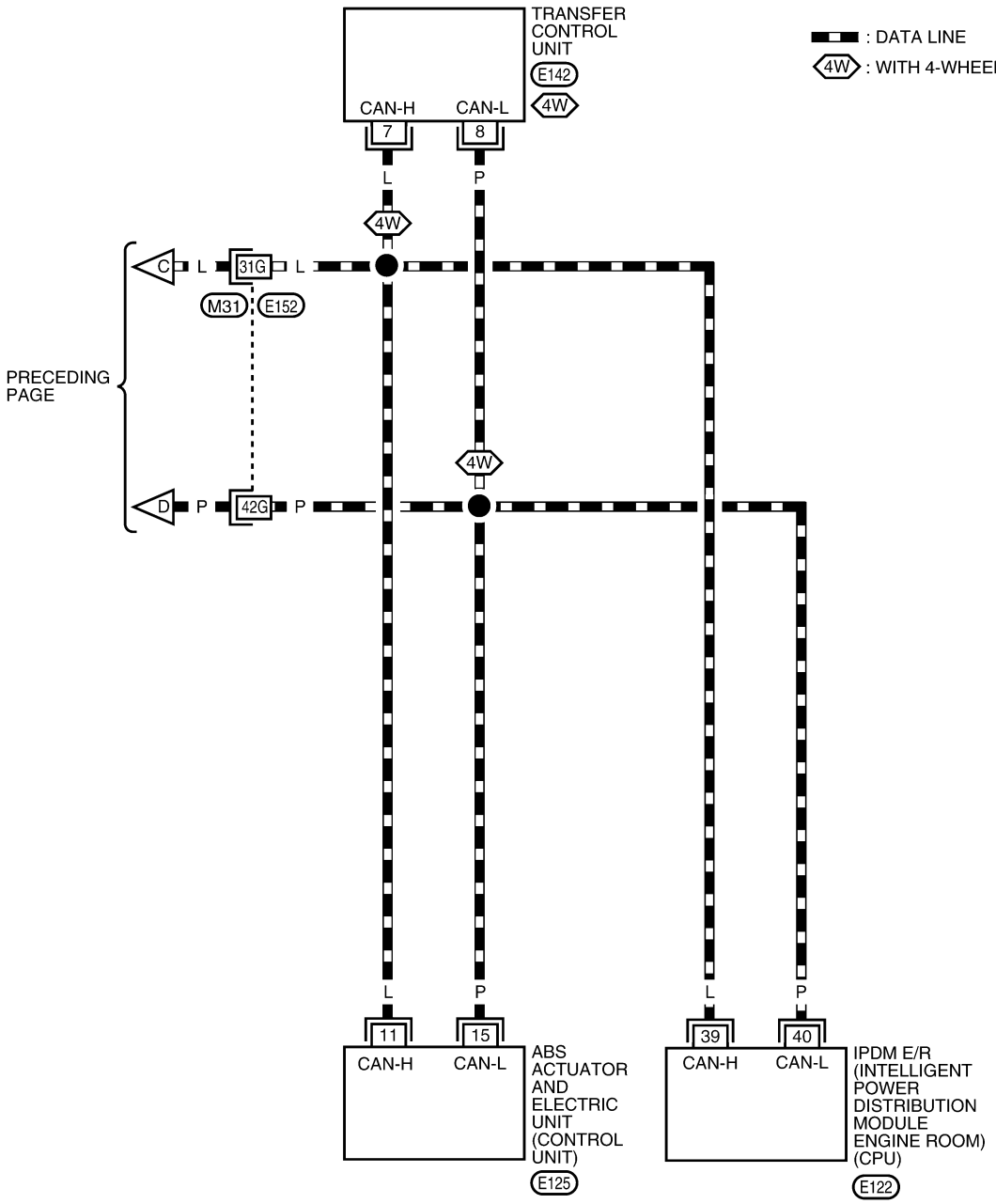
BKWA0643E

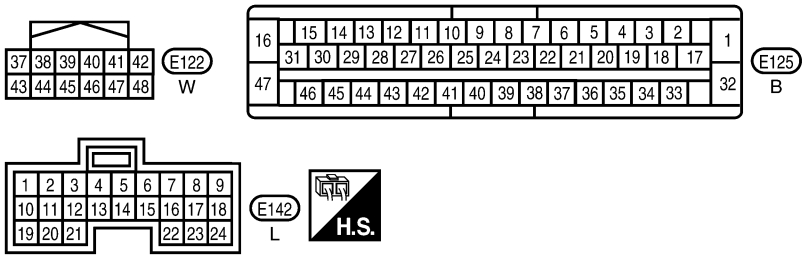

LAN-CAN-02
: DATA LINE
FA : FRONT AIR CONTROL WITH DISPLAY
NV : WITH NAVI
XC : FRONT AIR CONTROL WITHOUT DISPLAY
*1 FA : 41
XC : 34
*2 FA : 42
XC : 35
STEERING ANGLE SENSOR M47
DATA LINK CONNECTOR M22
COMBINATION METER M24
CAN-H
CAN-L
3
4
6
14
11
12
L
P
PRECEDING PAGE
A
B
C
D
NV
NEXT PAGE
*1
*2
FRONT AIR CONTROL M50
25
26
DISPLAY CONTROL UNIT M95
39
40
BCM (BODY CONTROL MODULE) M18
21
46
AIR BAG DIAGNOSIS SENSOR UNIT M35


M18 W
H.S.
M22 W
M24 W
M35 Y
M47 W
M50 W
M95 W

BKWA0644E

LAN-CAN-03





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

BKWA0645E

CAN Communication Unit

UKS000NV

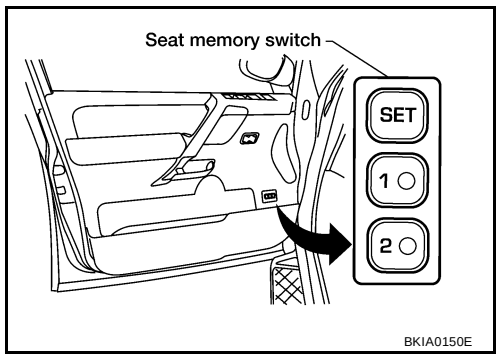
Go to CAN system, when selecting your CAN system type from the following table.

Body type	Wagon					
Axle	2WD			4WD		
Engine	VK56DE					
Transmission	A/T					
Brake control	VDC					
Automatic drive positioner		×	×		×	×
Navigation system			×			×
CAN system type	1	2	3	4	5	6
CAN system trouble diagnosis	LAN-38	LAN-53	LAN-70	LAN-88	LAN-104	LAN-122

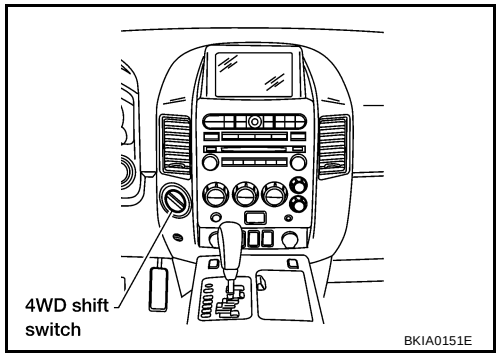
×: Applicable

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

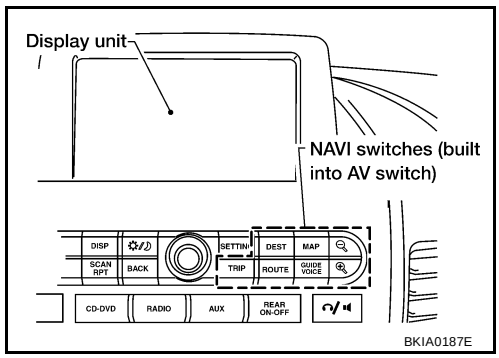
- Models with automatic drive positioner



- Models with 4WD



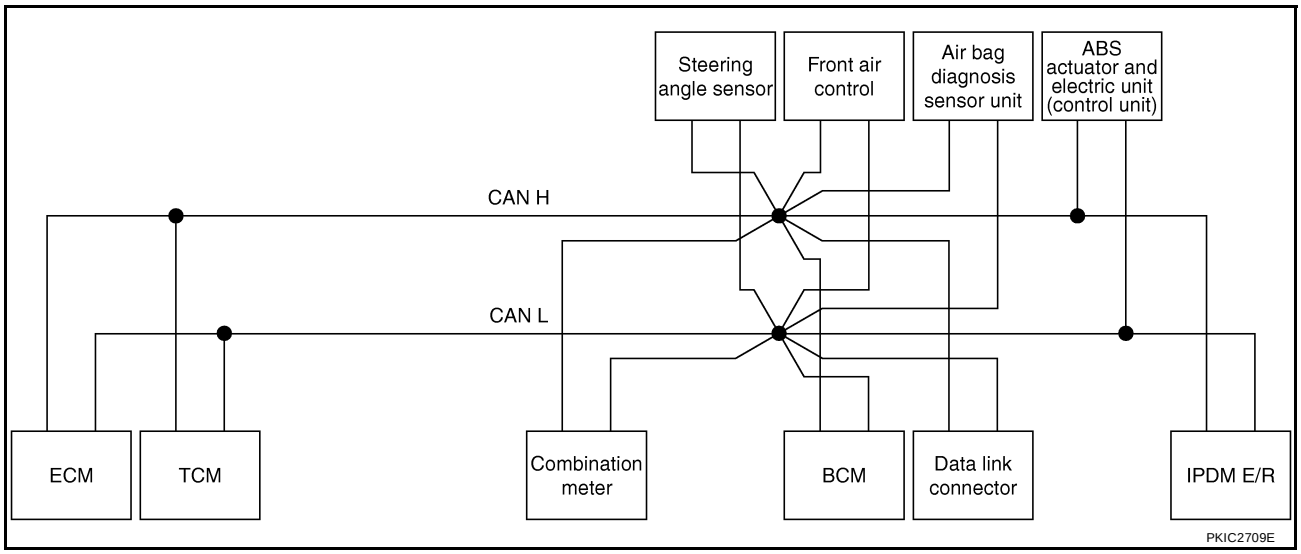
- Models with navigation system



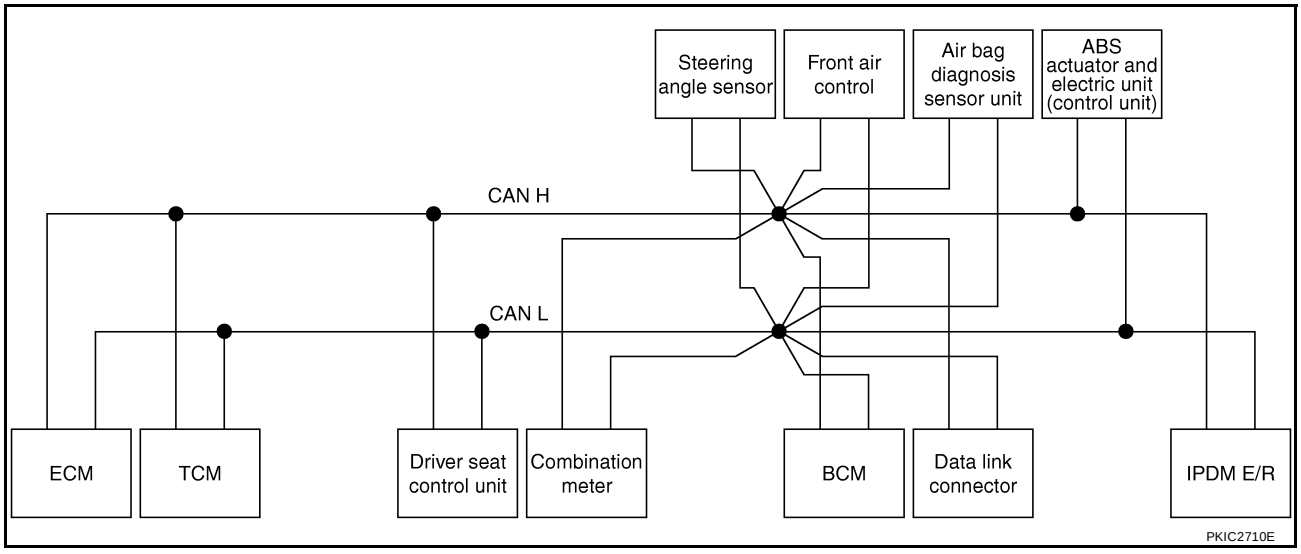
TYPE 1/ TYPE 2/TYPE3

System diagram

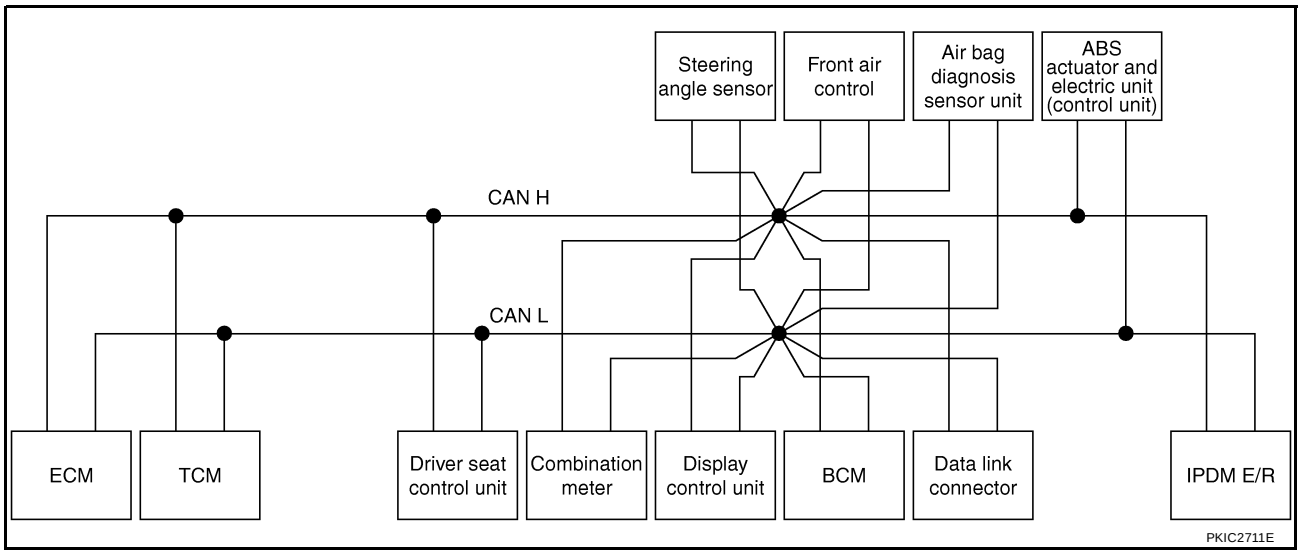
- Type 1



- Type 2



- Type 3



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	Driver seat control unit	Combination meter	Display control unit*1	BCM	Steering angle sensor	Front air control	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	T									R
Accelerator pedal position signal	T	R							R	
ASCD CRUISE lamp signal	T			R						
ASCD OD cancel request signal	T	R								
ASCD operation signal	T	R								
ASCD SET lamp signal	T			R						
Battery voltage signal	T	R								
Closed throttle position signal	T	R								
Cooling fan speed request signal	T									R
Engine coolant temperature signal	T			R				R		
Engine speed signal	T	R		R	R			R	R	
Engine status signal	T					R				
Fuel consumption monitor signal	T			R						
				T	R					
Malfunction indicator lamp signal	T			R						
Wide open throttle position signal	T	R								
A/T CHECK indicator lamp signal		T		R						
A/T fluid temperature sensor signal		T		R						
A/T position indicator lamp signal		T		R						
A/T self-diagnosis signal	R	T								
Output shaft revolution signal	R	T								
P range signal		T	R	R					R	
Turbine revolution signal	R	T								
System setting signal			T		R					
			R		T					
Door switch signal			R	R	R	T				R
Ignition switch signal			R			T				
Key fob door unlock signal			R			T				
Key fob ID signal			R			T				
Key switch signal			R			T				
Sleep wake up signal			R	R		T				R
1st position switch signal		R		T						
4th position switch signal		R		T						

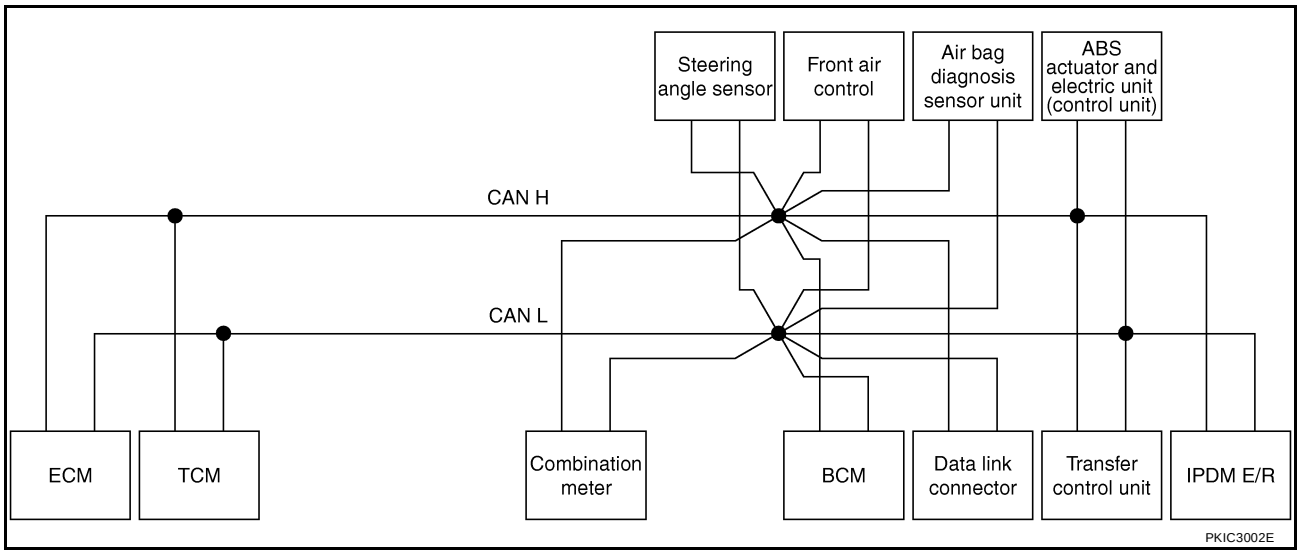
Signals	ECM	TCM	Driver seat control unit	Combination meter	Display control unit*1	BCM	Steering angle sensor	Front air control	ABS actuator and electric unit (control unit)	IPDM E/R
Distance to empty signal				T	R					
Fuel level low warning signal				T	R					
Fuel level sensor signal	R			T						
Stop lamp switch signal		R		T		R				
Tow mode switch signal		R		T						
Vehicle speed signal				R				R	T	
	R	R	R	T	R	R				
A/C switch/indicator signal					T			R		
					R			T		
A/C switch signal	R					T		R		
Blower fan motor switch signal	R					T				
Buzzer output signal				R		T				
Day time running light request signal				R		T				
Front fog light request signal						T				R
Front wiper request signal						T				R
High beam request signal				R		T				R
High beam status signal	R									T
Horn chirp signal						T				R
Low beam request signal						T				R
Low beam status signal	R									T
Position light request signal				R		T				R
Rear window defogger switch signal						T		R		R
Theft warning horn request signal						T				R
Tire pressure data signal					R	T				
Tire pressure signal					R	T				
Turn indicator signal				R		T				
Steering angle sensor signal							T		R	
ABS warning lamp signal				R					T	
Brake warning lamp signal				R					T	
SLIP indicator lamp signal				R					T	
VDC OFF indicator lamp signal				R					T	
Front wiper stop position signal						R				T
Rear window defogger control signal	R				R					T

- *1: with navigation system model only

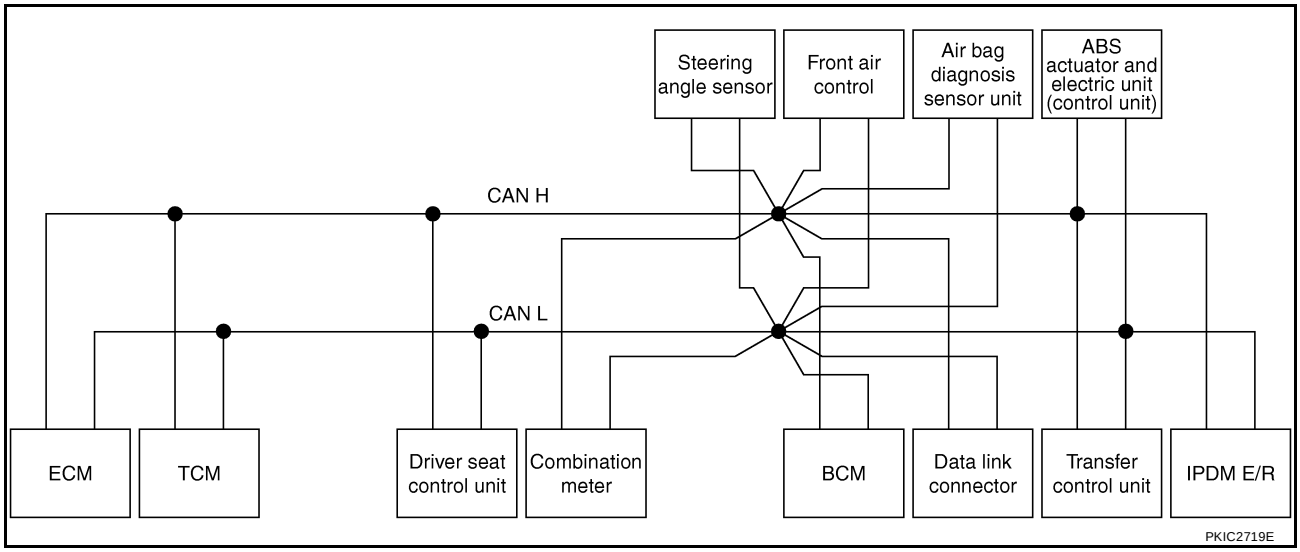
TYPE 4/ TYPE 5/TYPE6

System diagram

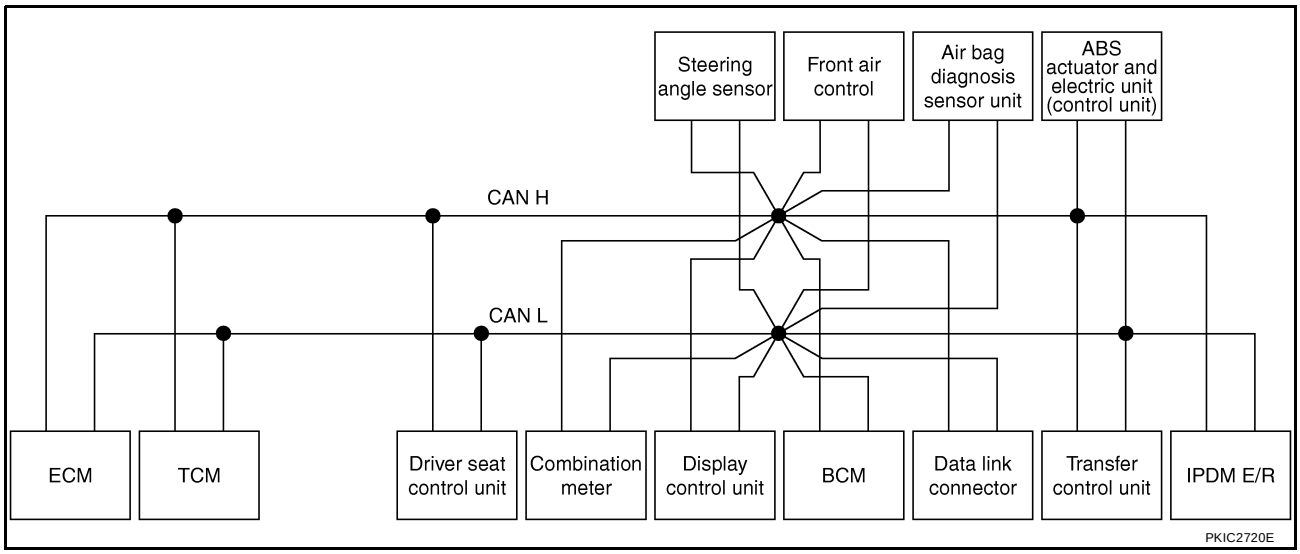
- Type 4



- Type 5



- Type 6



Input/output signal chart

T: Transmit R: Receive

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

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

- *1: with navigation system model only

CAN SYSTEM (TYPE 1)

PFP:23710

Component Parts and Harness Connector Location

UKS004S1

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

UKS004S2

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

UKS004S3

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

UKS004S4

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

Check sheet table

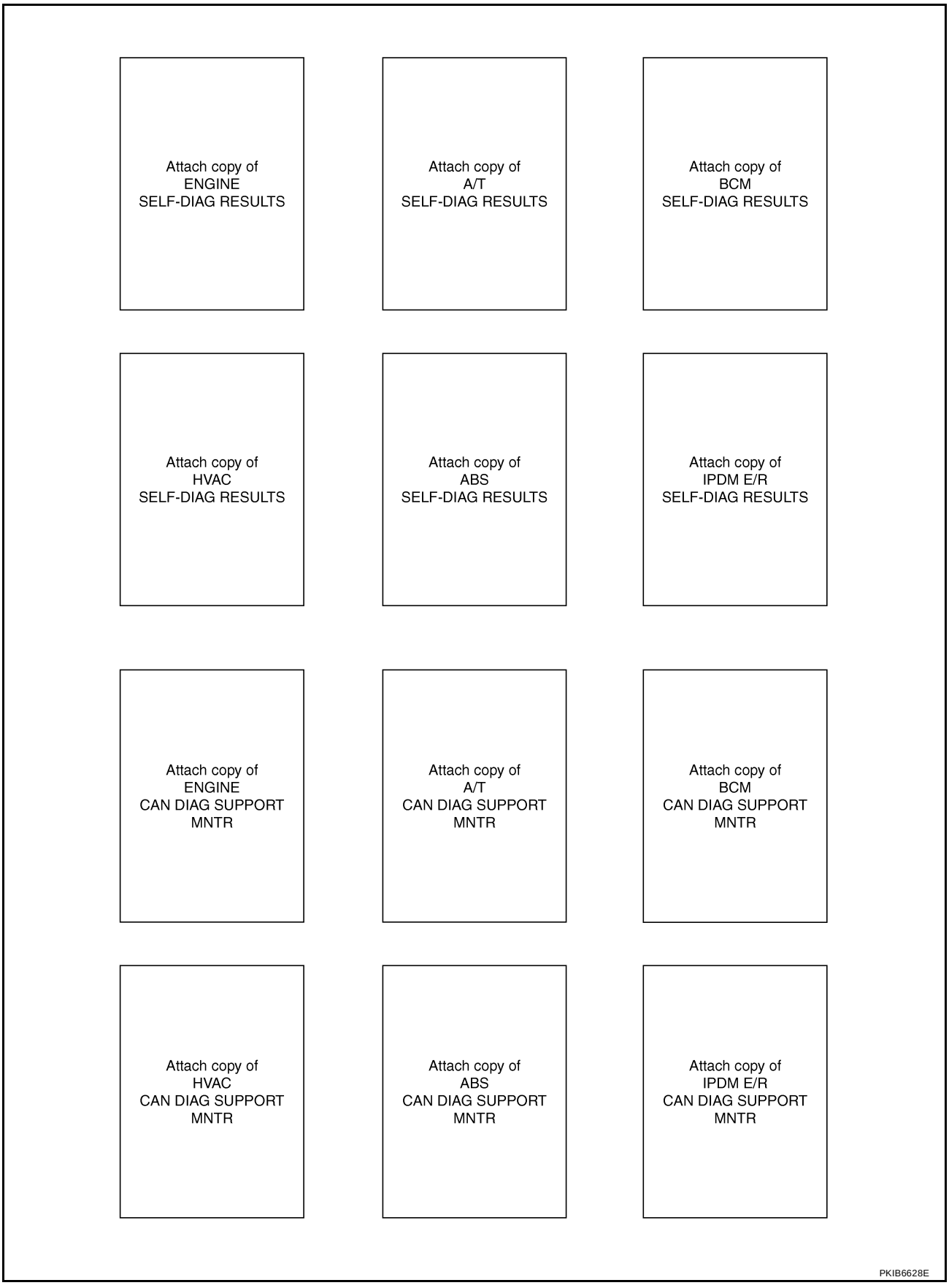
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	UNKWN	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T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

Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIC4706E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
HVAC
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
Attach copy of
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MNTR
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BCM
CAN DIAG SUPPORT
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HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB6628E

CHECK SHEET RESULTS (EXAMPLE)

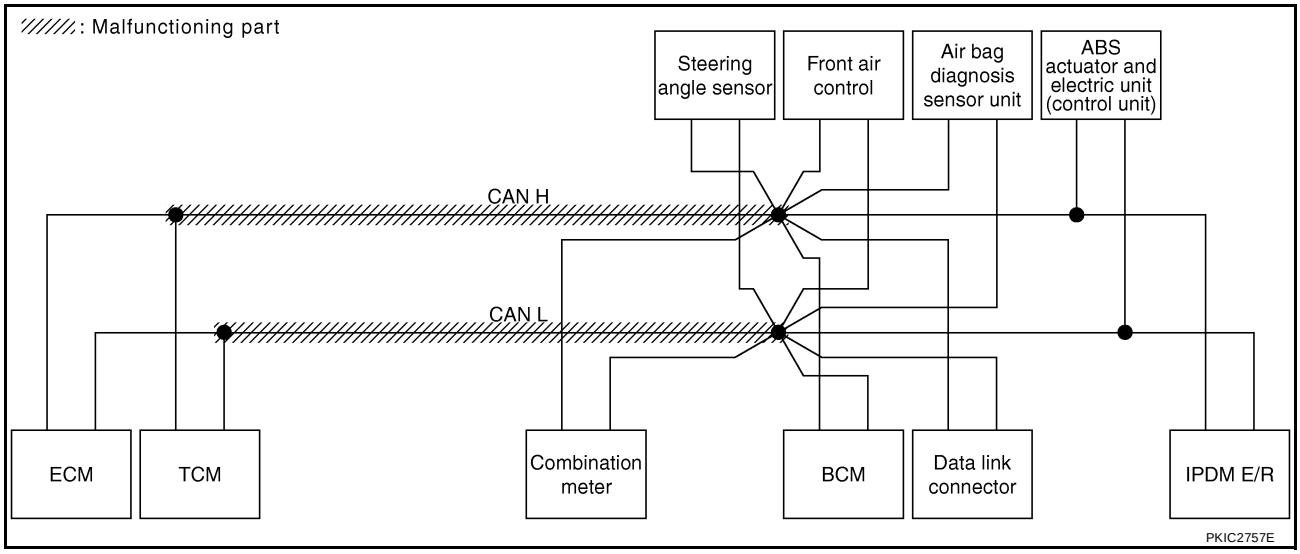
NOTE:
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to LAN-142, "Inspection Between TCM and Data Link Connector Circuit" .

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

PKIC4707E

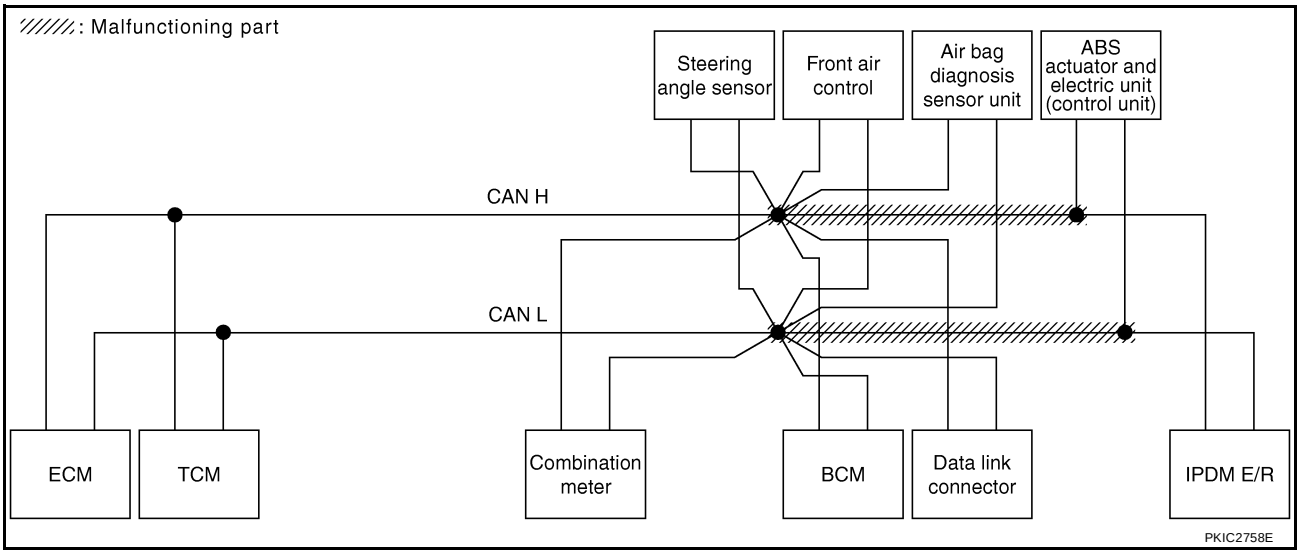


Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-144, "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	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	UNKWN	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
BCM	No indication	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
HVAC	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–
ABS	–	NG	UNKWN	UNKWN	UNKWN	–	–	UNKWN	–	–	CAN COMM CIRCUIT (U1000)	–
IPDM E/R	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	–	–	CAN COMM CIRCUIT (U1000)	–

PKIC4708E

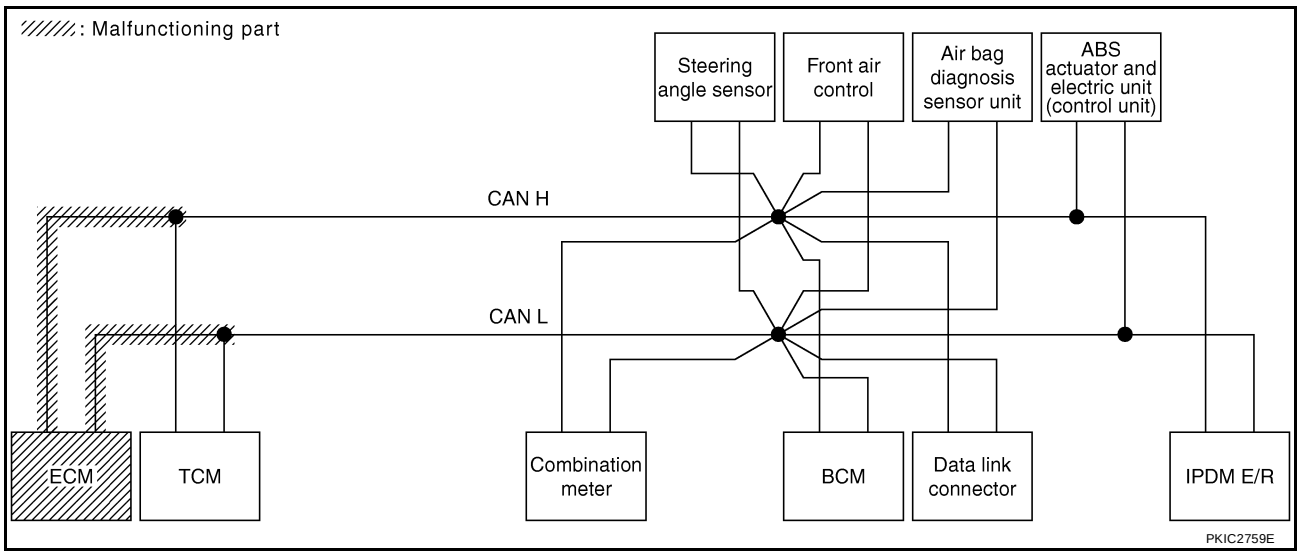


Case 3

Check ECM circuit. Refer to LAN-145, "ECM Circuit Inspection" .

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

PKIC4709E



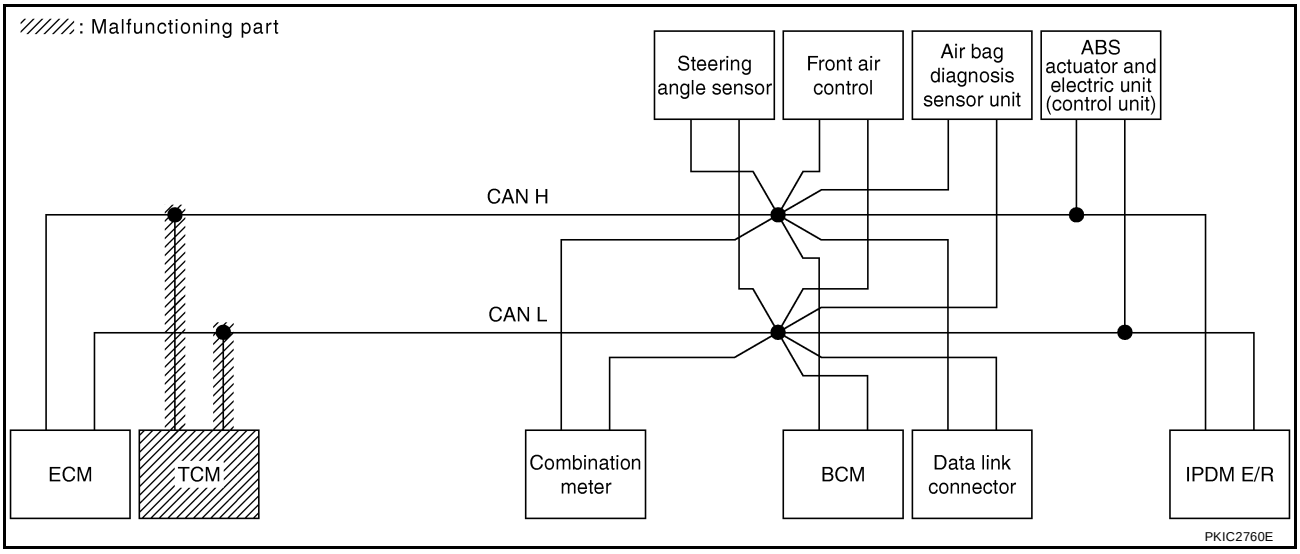
PKIC2759E

Case 4

Check TCM circuit. Refer to LAN-146, "TCM Circuit Inspection" .

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

PKIC4710E

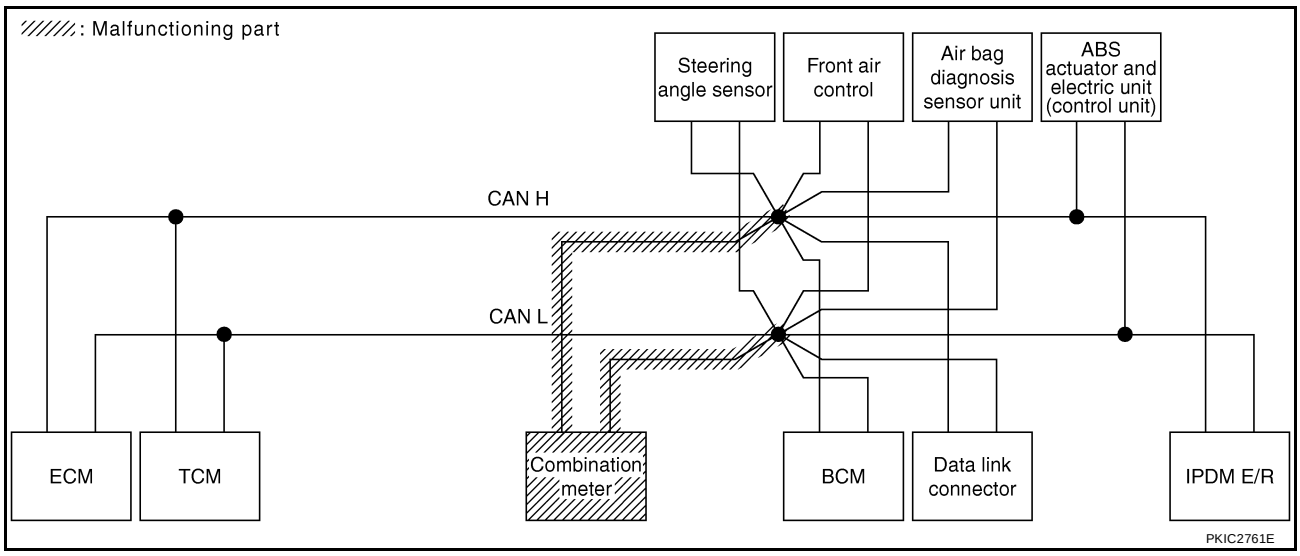


Case 5

Check combination meter circuit. Refer to LAN-147, "Combination Meter Circuit Inspection" .

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

PKIC4711E



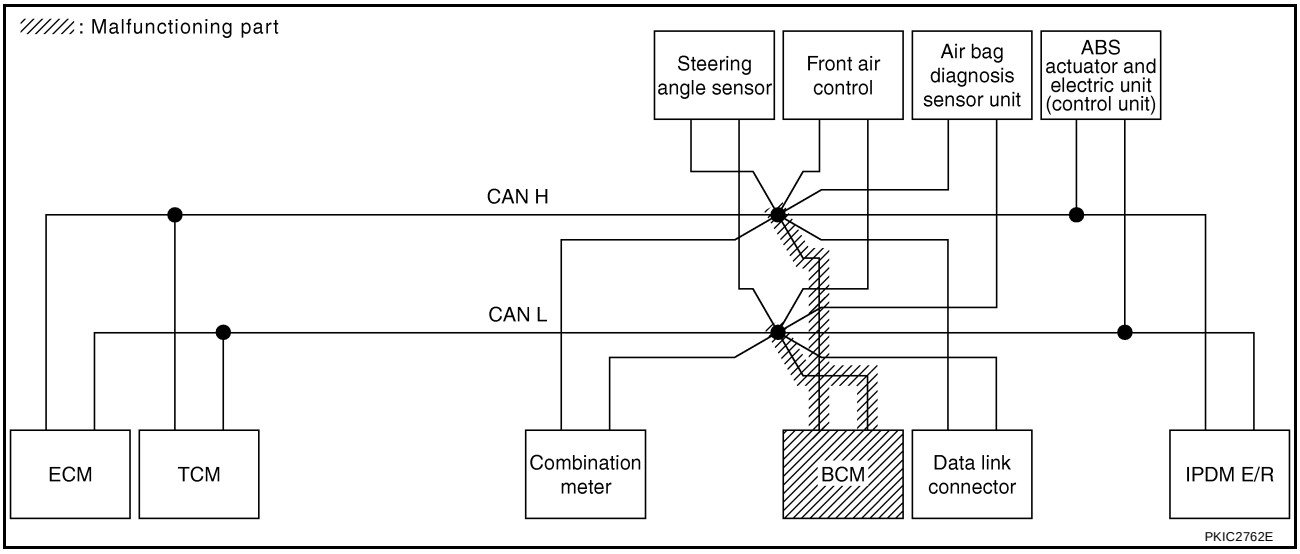
PKIC2761E

Case 6

Check BCM circuit. Refer to LAN-148, "BCM Circuit Inspection" .

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

PKIC4712E



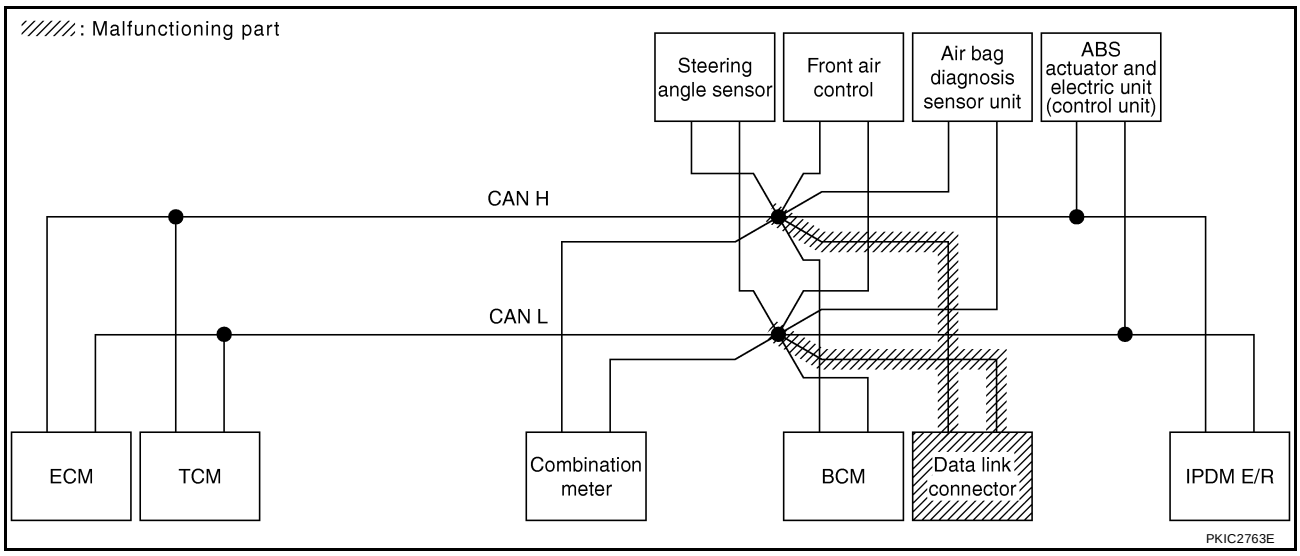
PKIC2762E

Case 7

Check data link connector circuit. Refer to LAN-148, "Data Link Connector Circuit Inspection" .

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

PKIC4713E



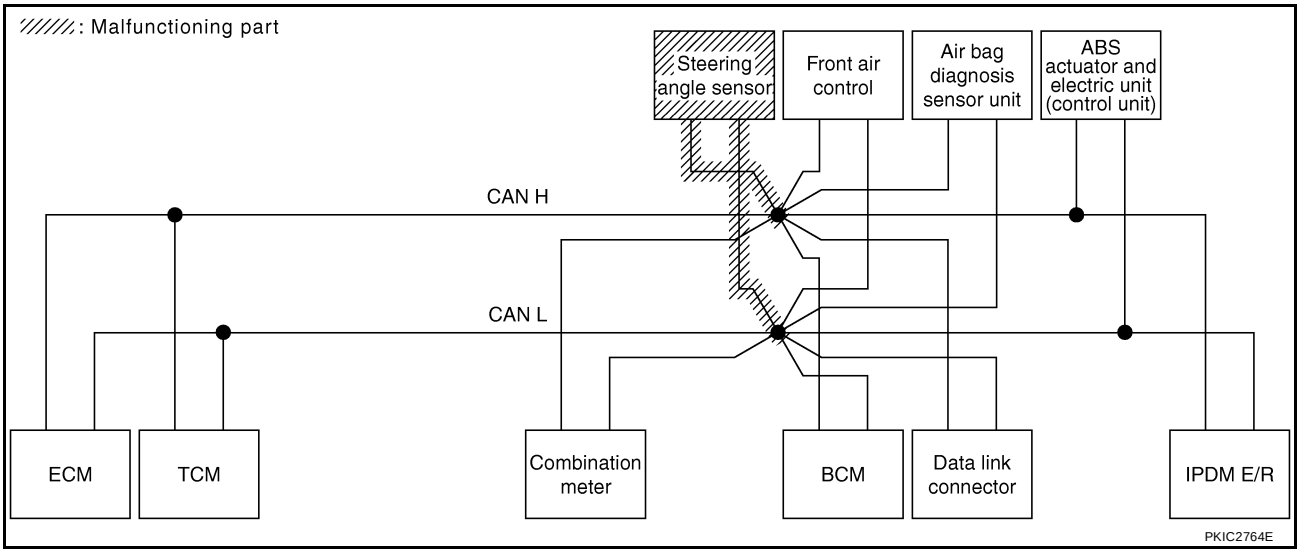
PKIC2763E

Case 8

Check steering angle sensor circuit. Refer to LAN-149, "Steering Angle Sensor Circuit Inspection" .

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

PKIC4714E



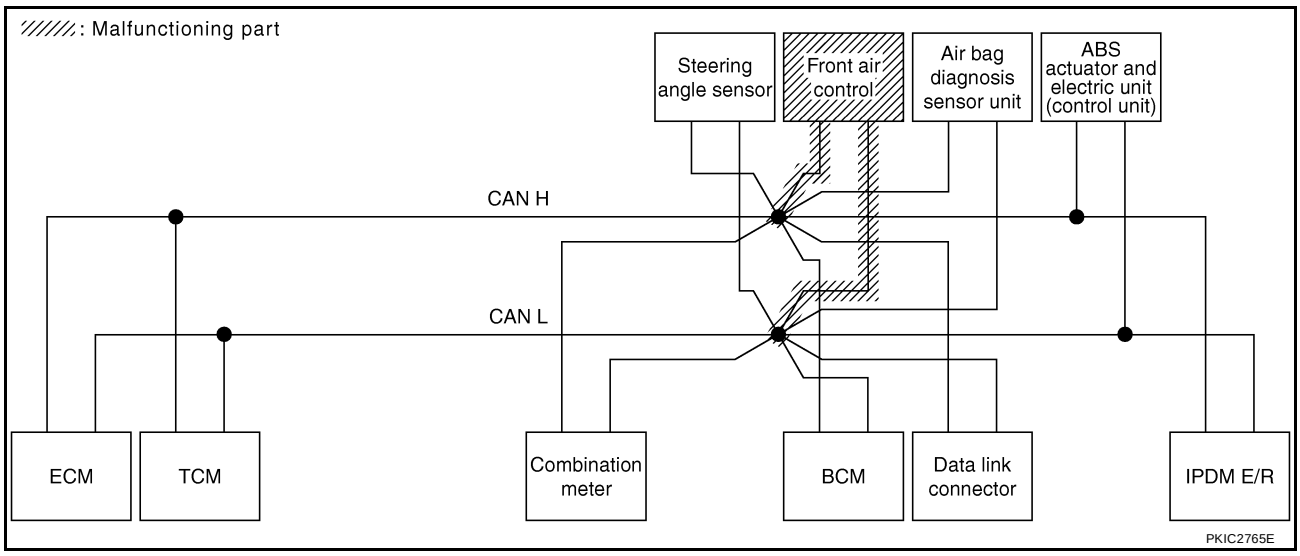
PKIC2764E

Case 9

Check front air control circuit. Refer to LAN-149, "Front Air Control Circuit Inspection" .

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

PKIC4715E



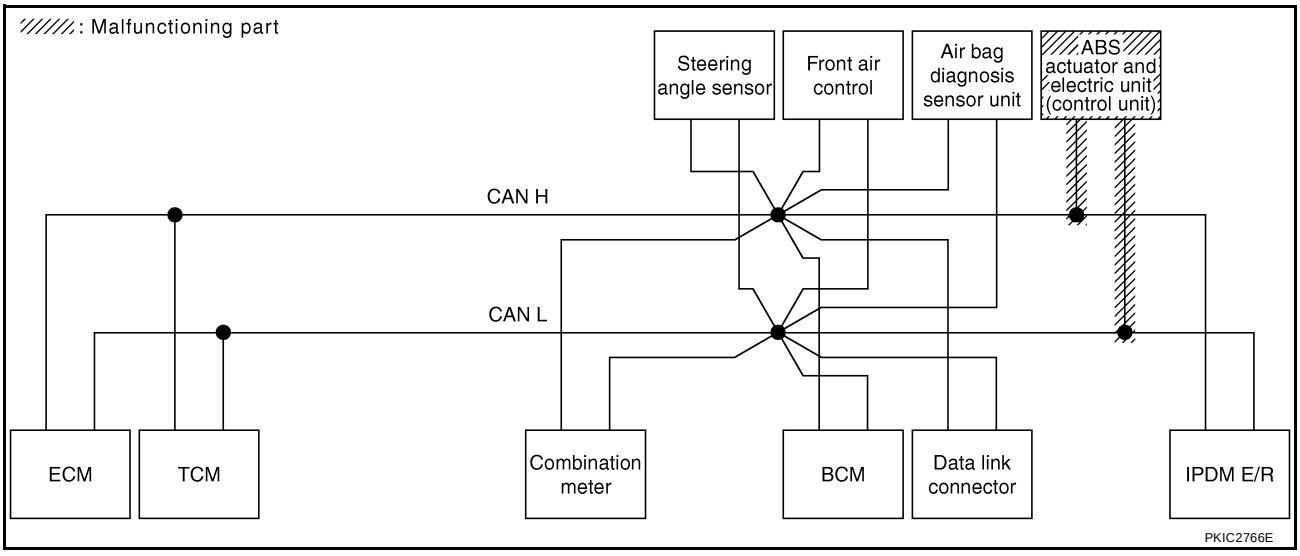
PKIC2765E

Case 10

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-151, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

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

PKIC4716E

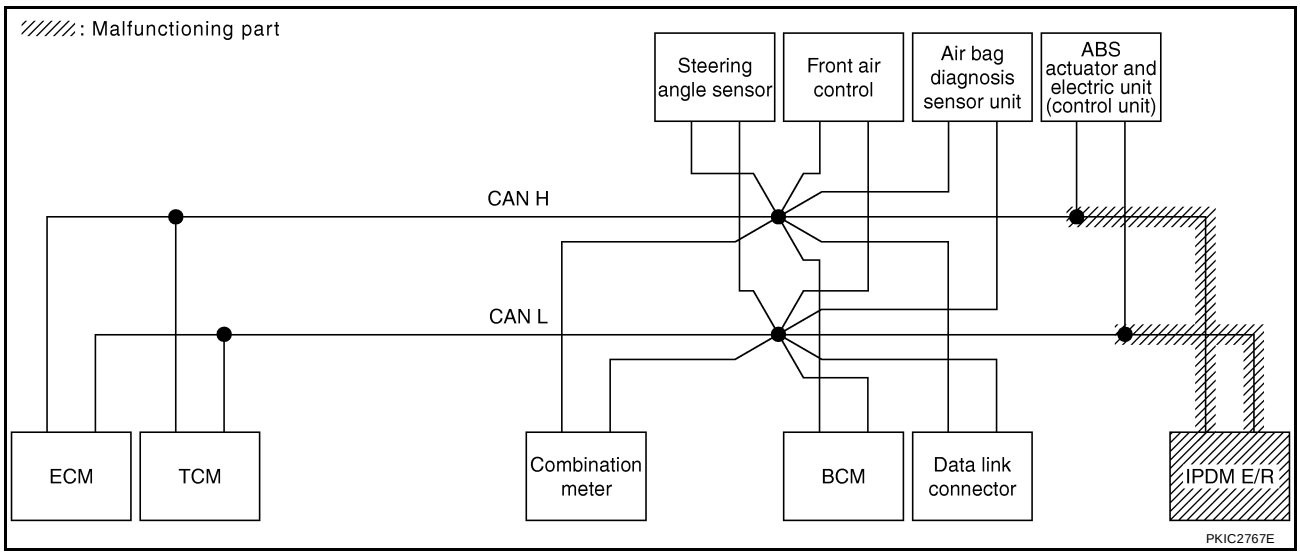


Case 11

Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection" .

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

PKIC4717E



PKIC2767E

Case 12

Check CAN communication circuit. Refer to LAN-152, "CAN Communication Circuit Inspection" .

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

PKIC4718E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC4719E

Case 14

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC4720E

CAN SYSTEM (TYPE 2)

PFP:23710

Component Parts and Harness Connector Location

UKS004S5

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

UKS004S6

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

UKS004S7

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

UKS004S8

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

Check sheet table

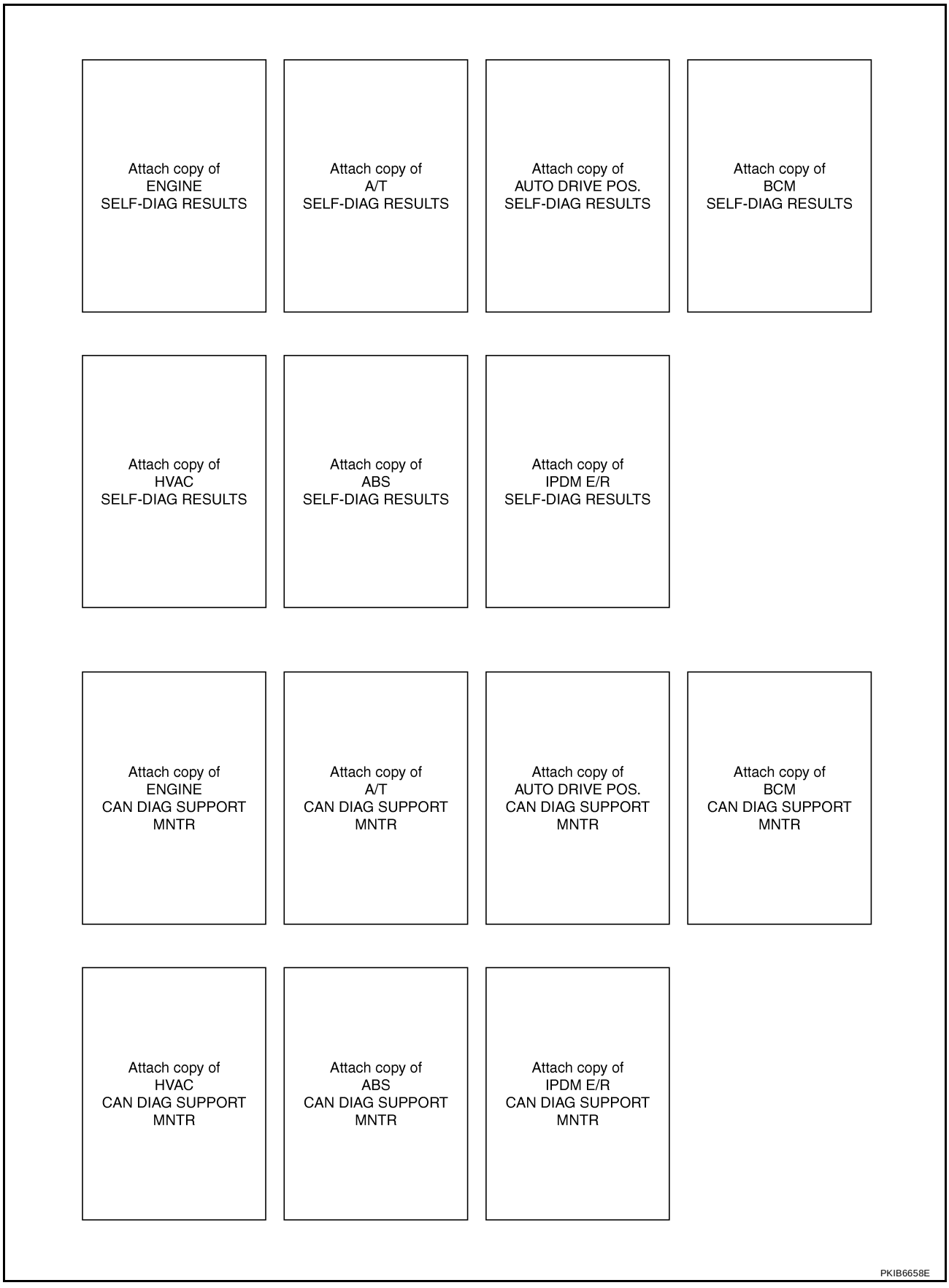
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	UNKWN	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T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

Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIC2942E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
ABS
SELF-DIAG RESULTS
Attach copy of
IPDM E/R
SELF-DIAG RESULTS
Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
CAN DIAG SUPPORT
MNTR
Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB6658E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

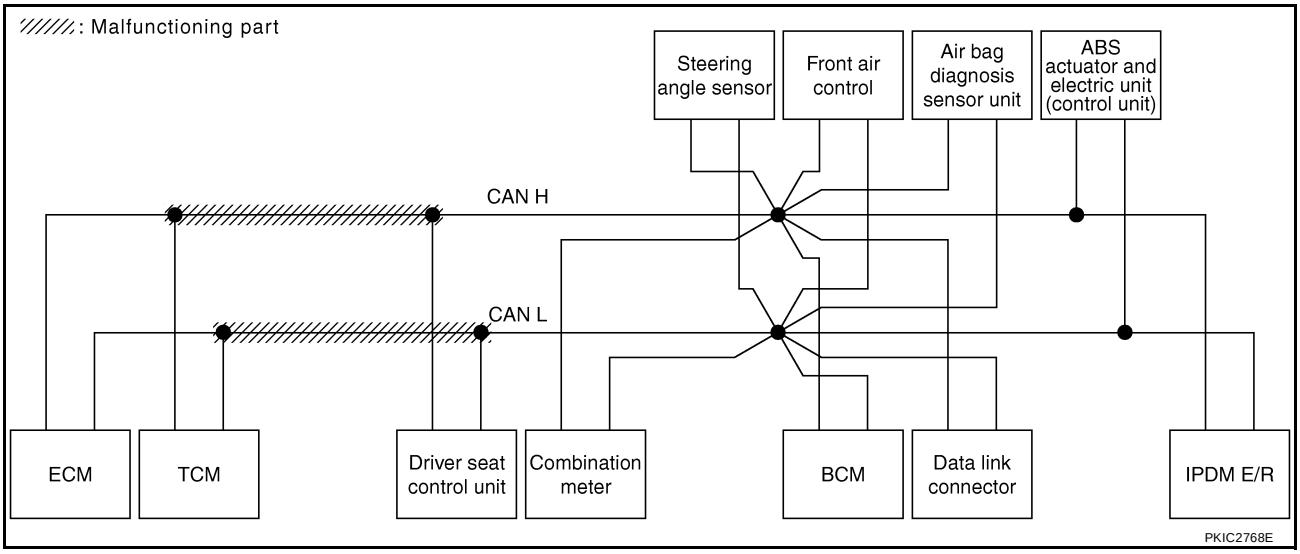
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and driver seat control unit. Refer to LAN-141, "Inspection Between TCM and Driver Seat Control Unit Circuit" .

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

PKIC3258E

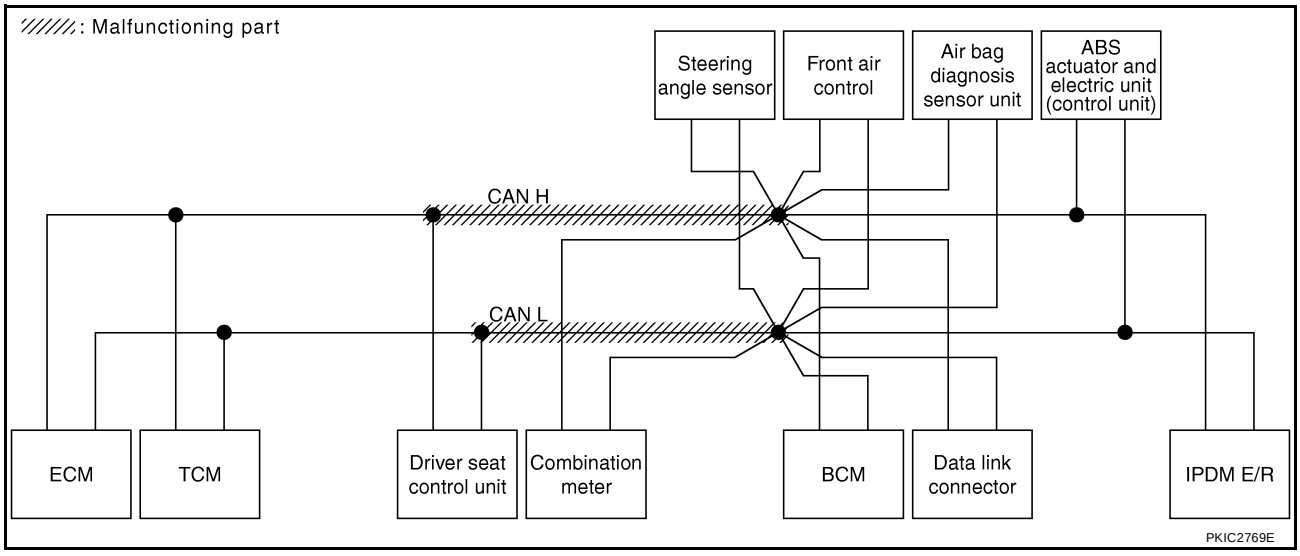


Case 2

Check harness between driver seat control unit and data link connector. Refer to LAN-143, "Inspection Between Driver Seat Control Unit and Data Link Connector Circuit" .

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

PKIC3259E

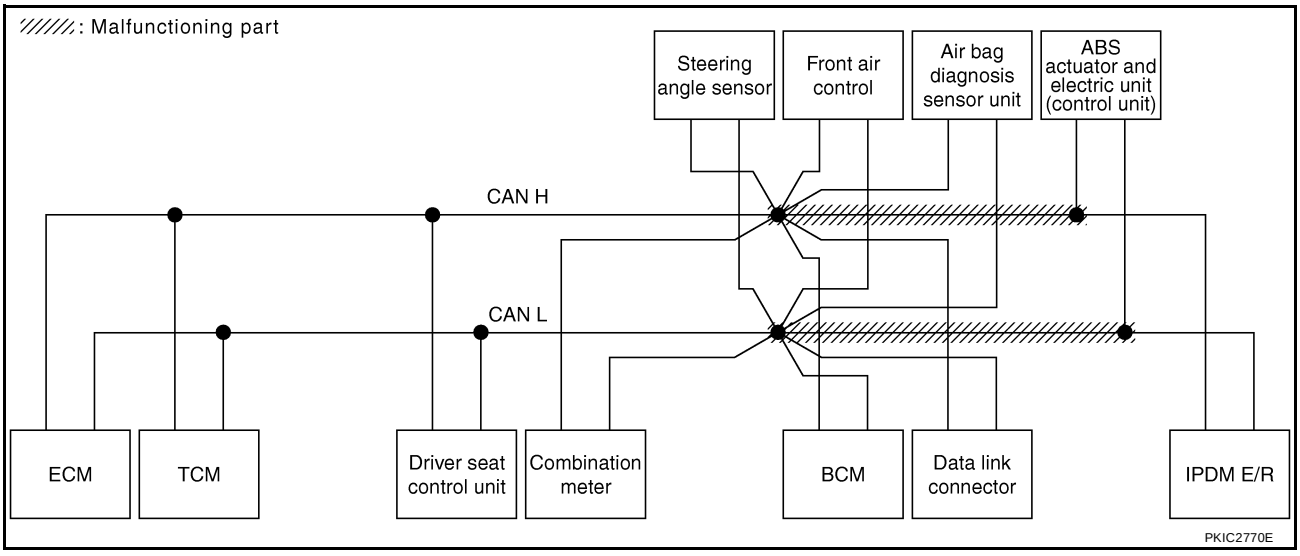


Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-144, "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	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	UNKWN	–	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
AUTO DRIVE POS.	No indication	–	–	–	UNKWN	UNKWN	UNKWN	–	–	–	CAN COMM CIRCUIT (U1000)	–
BCM	No indication	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
HVAC	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	–	–
ABS	–	NG	UNKWN	UNKWN	UNKWN	–	–	UNKWN	–	–	CAN COMM CIRCUIT (U1000)	–
IPDM E/R	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	–	–	CAN COMM CIRCUIT (U1000)	–

PKIC3260E

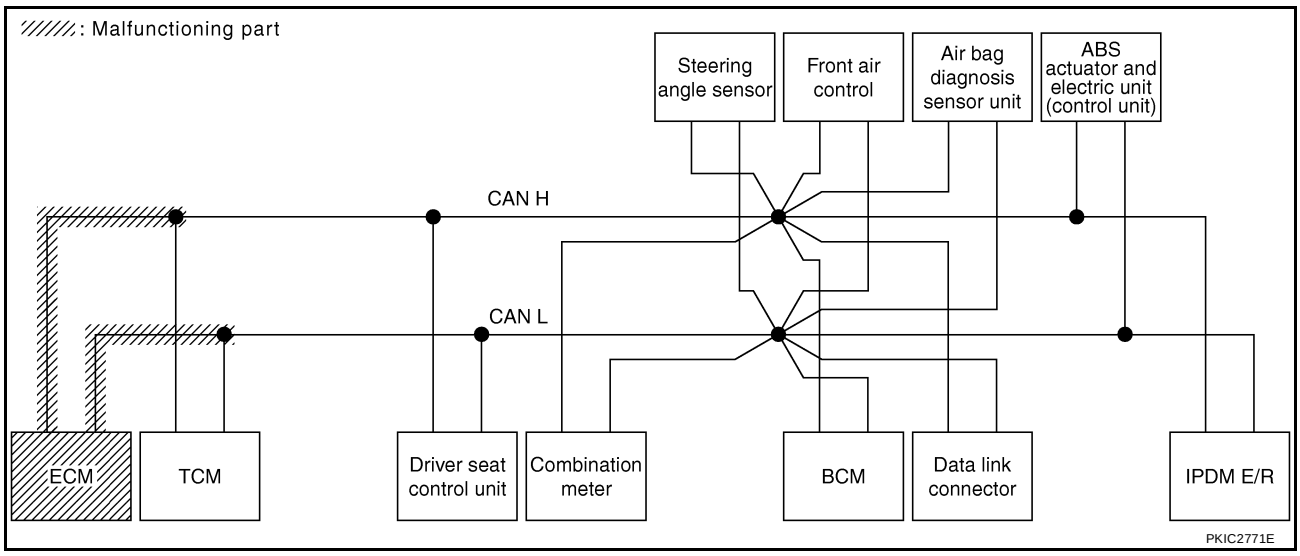


Case 4

Check ECM circuit. Refer to LAN-145, "ECM Circuit Inspection" .

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

PKIC3261E



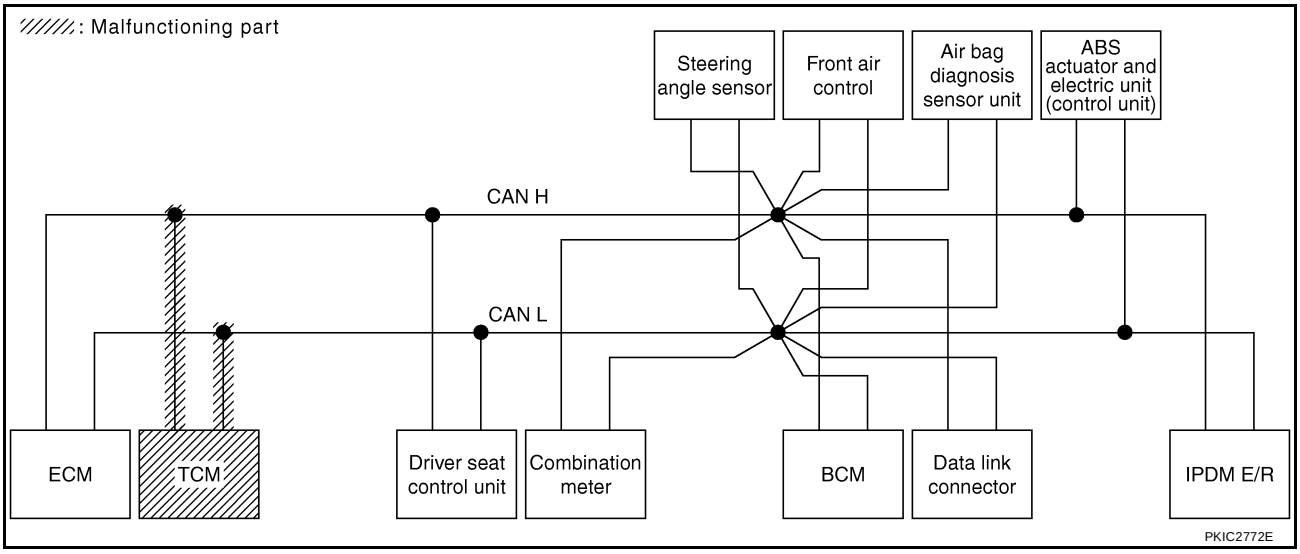
PKIC2771E

Case 5

Check TCM circuit. Refer to LAN-146, "TCM Circuit Inspection" .

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

PKIC3262E

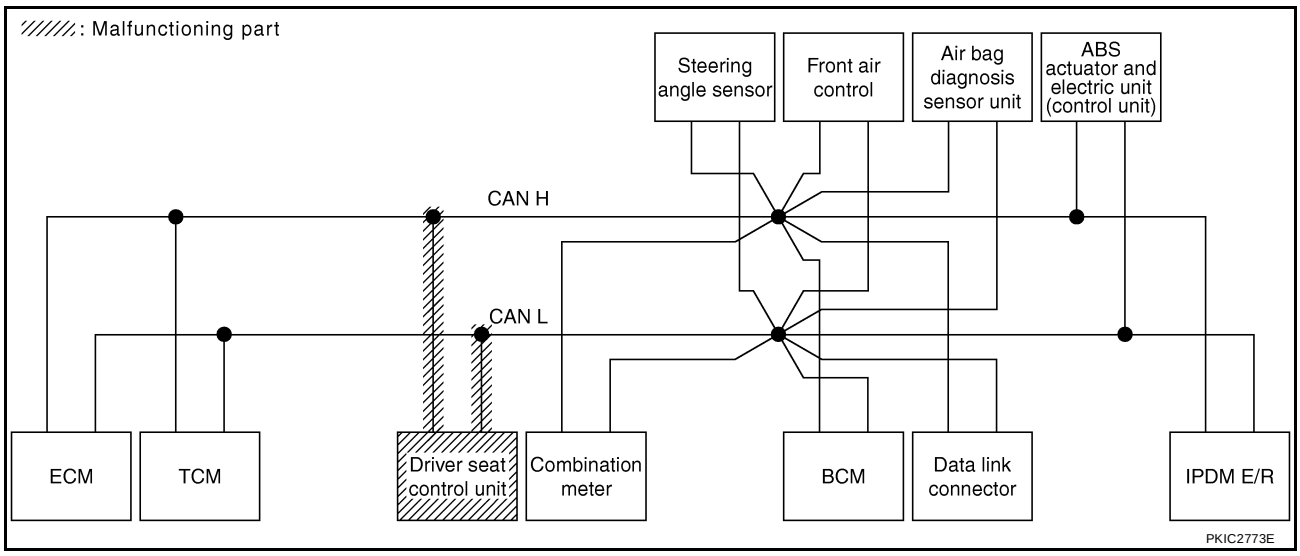


Case 6

Check driver seat control unit circuit. Refer to LAN-146, "Driver Seat Control Unit Circuit Inspection" .

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

PKIC3263E



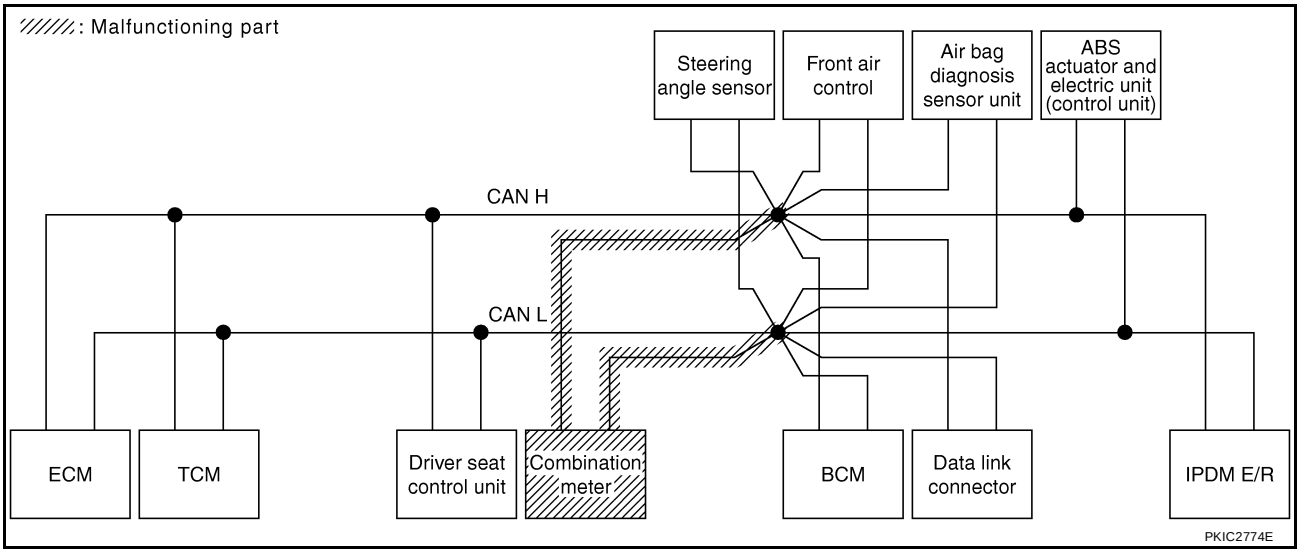
PKIC2773E

Case 7

Check combination meter circuit. Refer to LAN-147, "Combination Meter Circuit Inspection" .

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

PKIC3264E

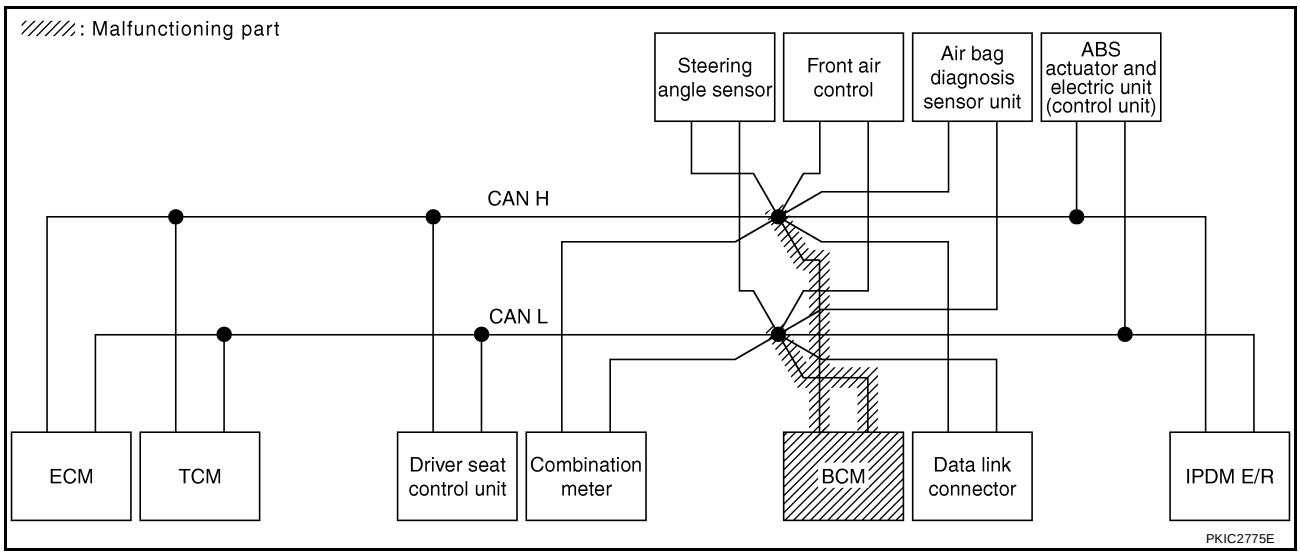


Case 8

Check BCM circuit. Refer to LAN-148, "BCM Circuit Inspection" .

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

PKIC3265E



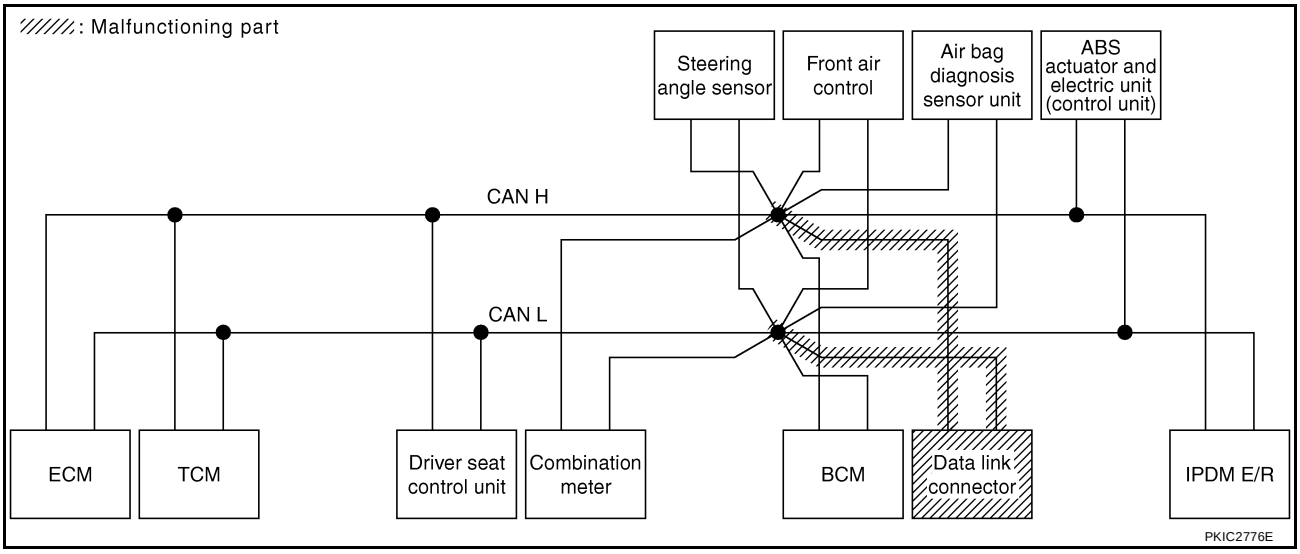
PKIC2775E

Case 9

Check data link connector circuit. Refer to LAN-148, "Data Link Connector Circuit Inspection" .

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

PKIC3266E



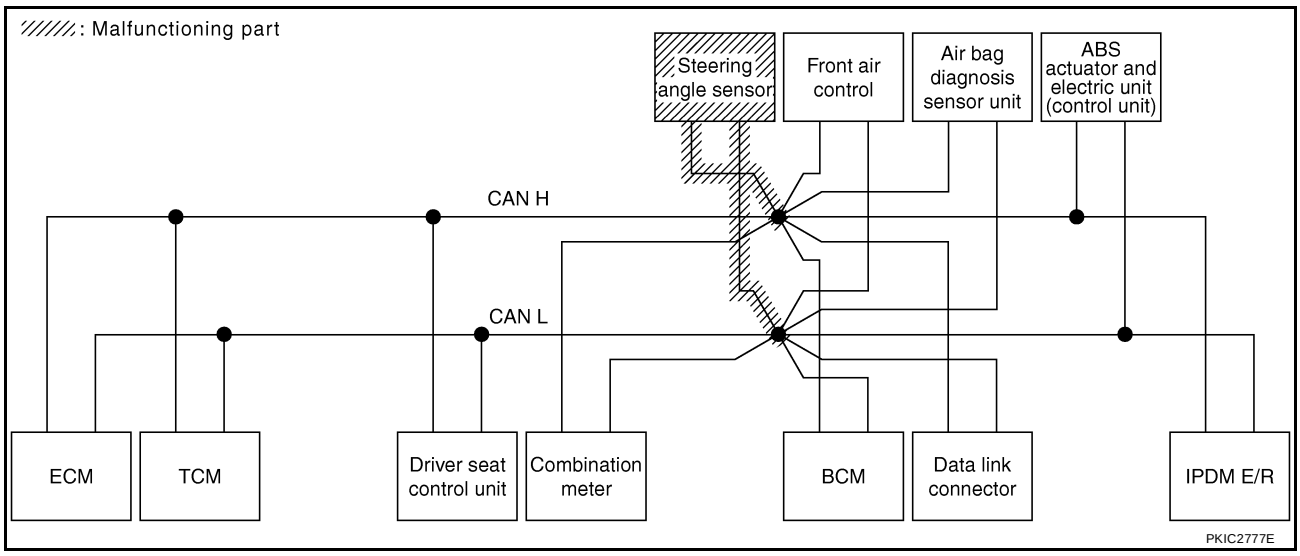
PKIC2776E

Case 10

Check steering angle sensor circuit. Refer to LAN-149, "Steering Angle Sensor Circuit Inspection" .

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

PKIC3267E



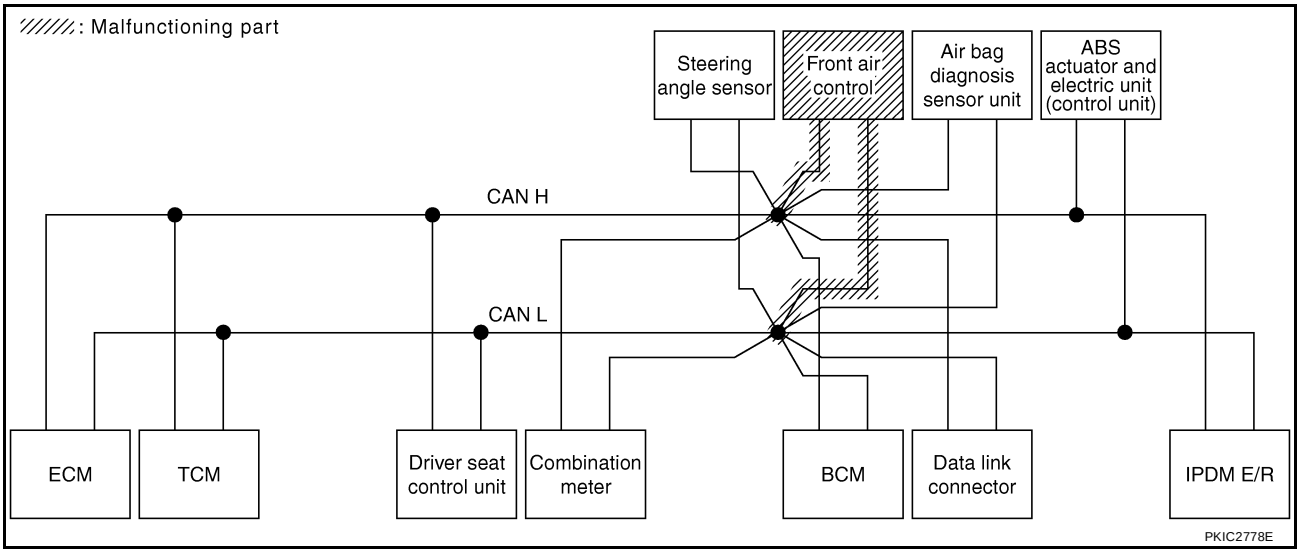
PKIC2777E

Case 11

Check front air control circuit. Refer to LAN-149, "Front Air Control Circuit Inspection" .

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

PKIC3268E



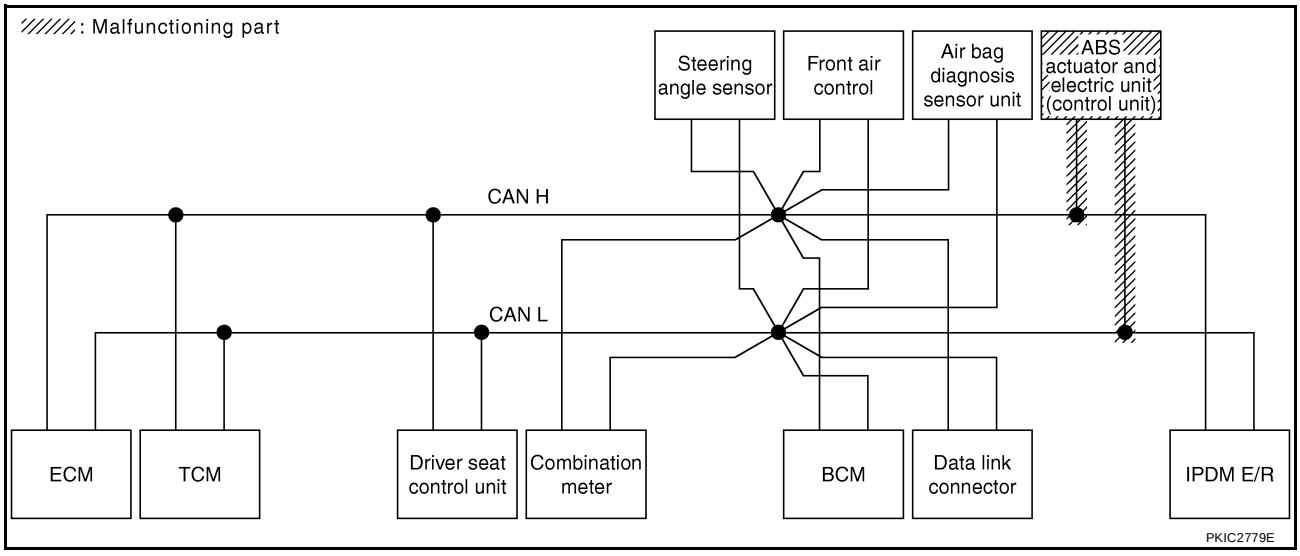
PKIC2778E

Case 12

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-151, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

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

PKIC3269E

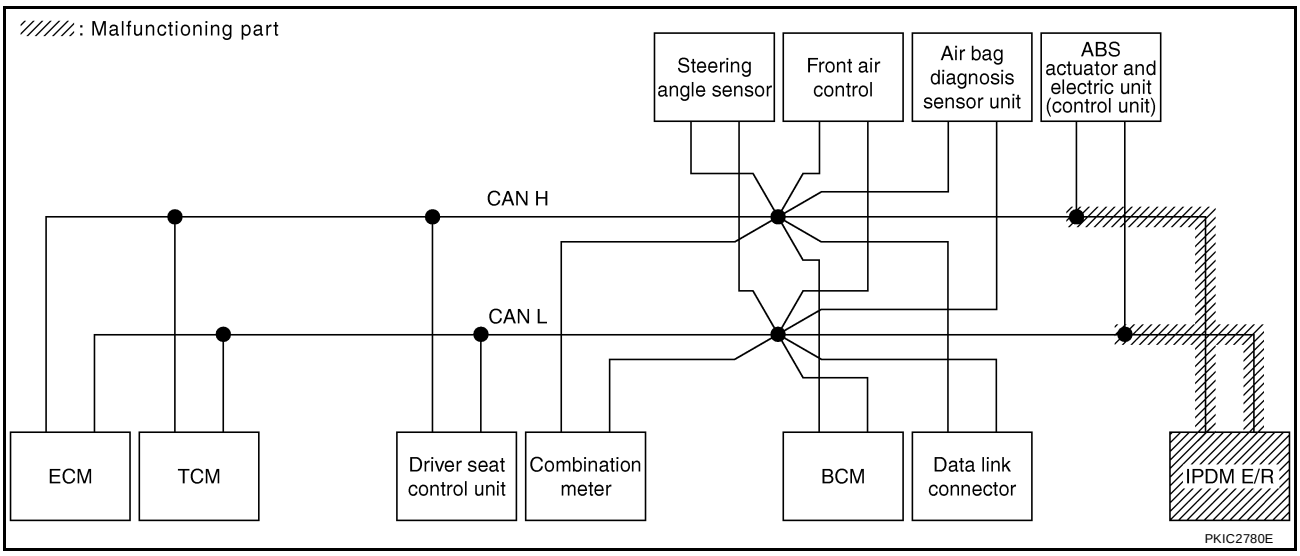


Case 13

Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection" .

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

PKIC3270E



PKIC2780E

Case 14

Check CAN communication circuit. Refer to LAN-152, "CAN Communication Circuit Inspection" .

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

PKIC3271E

Case 15

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3272E

Case 16

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3273E

CAN SYSTEM (TYPE 3)

PFP:23710

Component Parts and Harness Connector Location

UKS004S9

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

UKS004SA

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

UKS004SB

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

UKS004SC

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

Check sheet table

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

Symptoms :

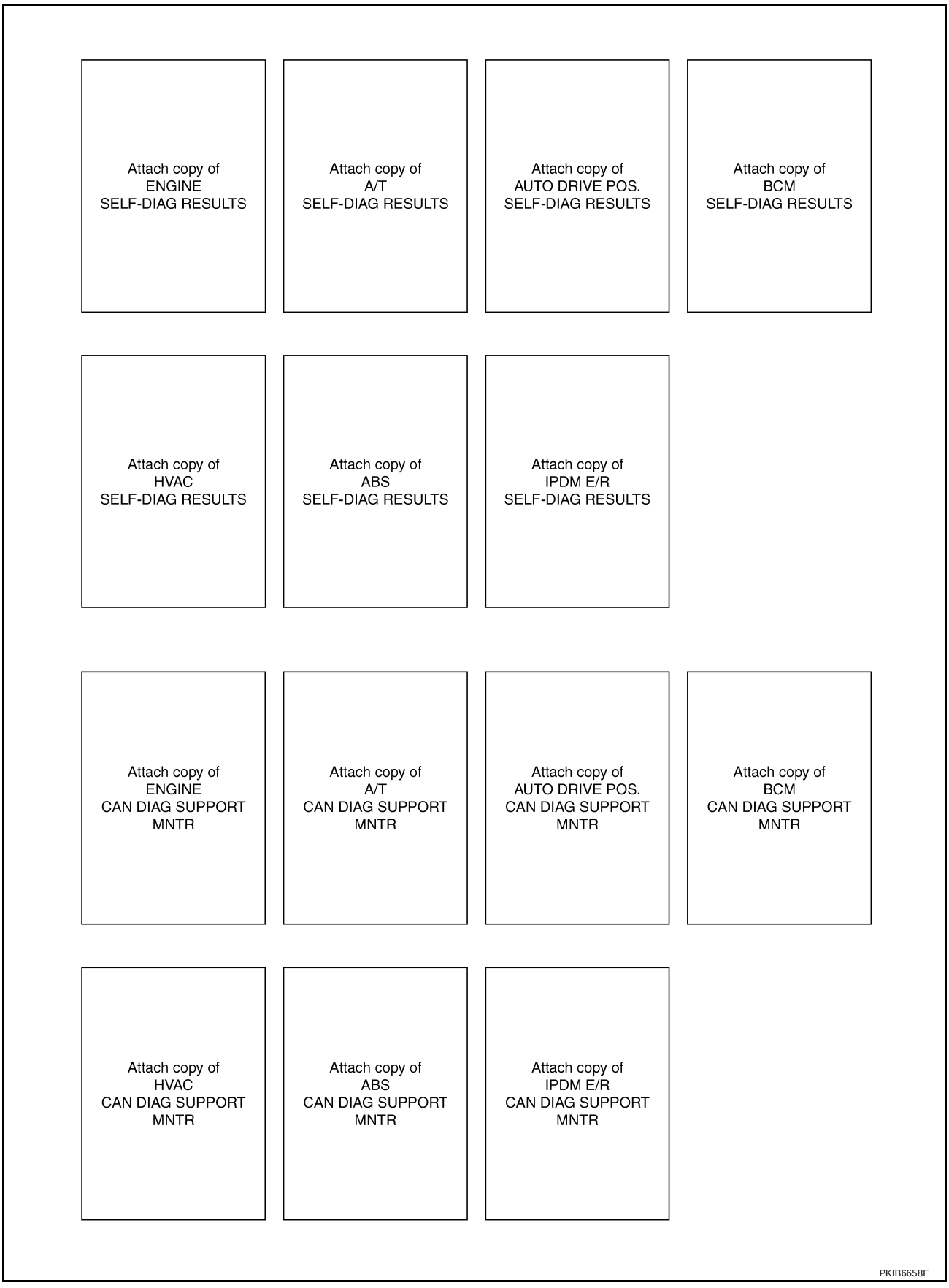
Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	–
CAN CIRC 2	BCM	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	–
CAN CIRC 4	HVAC	CAN CIRC 9	–

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

PKIC2943E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
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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
A/T
CAN DIAG SUPPORT
MNTR
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AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB6658E

CHECK SHEET RESULTS (EXAMPLE)

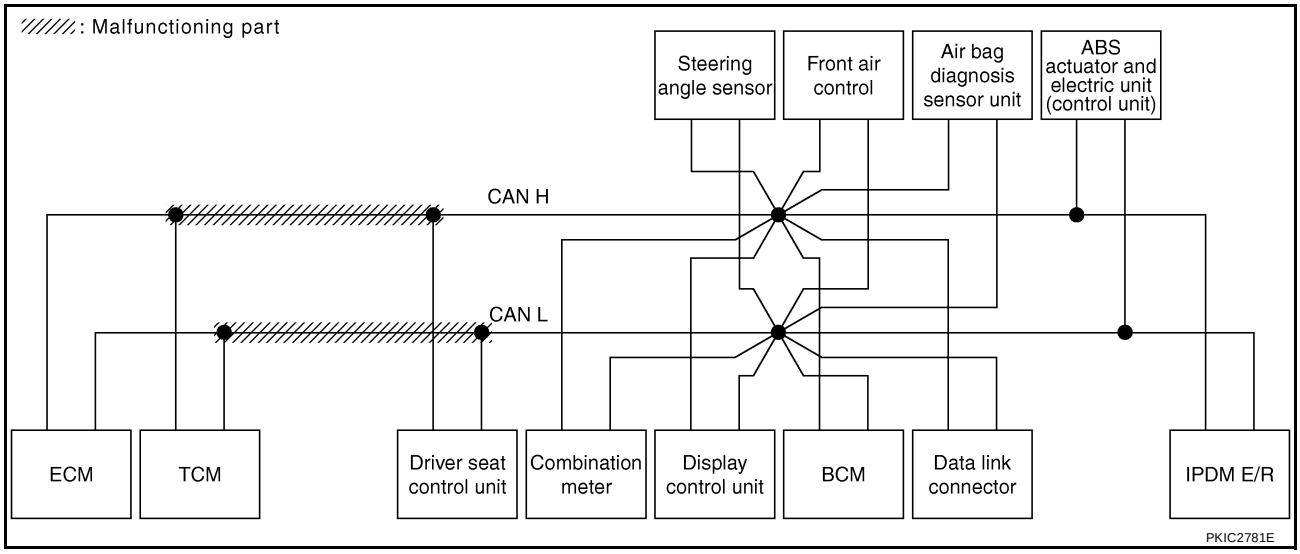
NOTE:
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and driver seat control unit. Refer to LAN-141, "Inspection Between TCM and Driver Seat Control Unit Circuit" .

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

PKIC3274E



Case 2

Check harness between driver seat control unit and data link connector. Refer to LAN-143, "Inspection Between Driver Seat Control Unit and Data Link Connector Circuit" .

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

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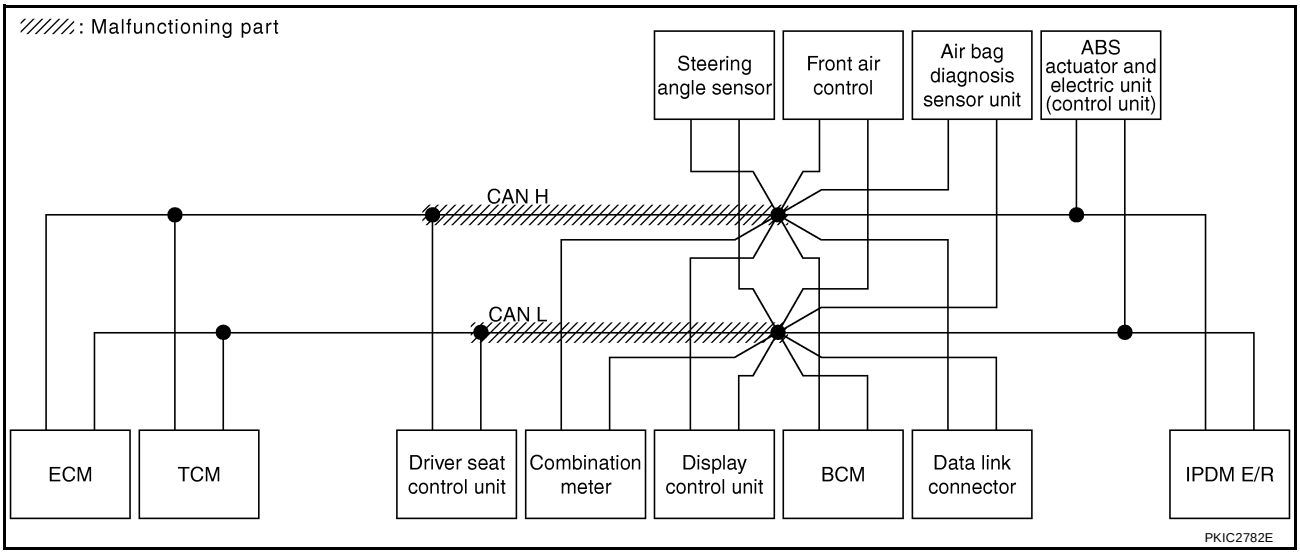
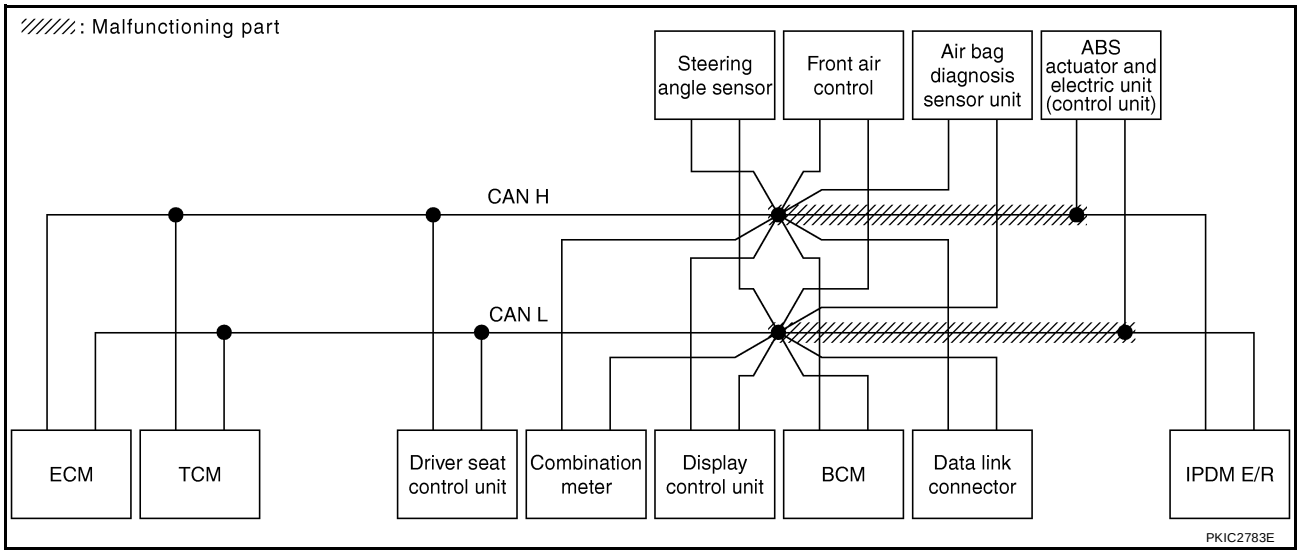


Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-144, "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	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
A/T	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	UNKWN ✓	–	CAN COMM CIRCUIT (U1000) ✓	–
AUTO DRIVE POS.	No indication	–	–	–	UNKWN	UNKWN	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
Display control unit	–	NG	UNKWN	UNKWN	–	UNKWN	–	UNKWN	–	UNKWN	–	UNKWN ✓	–	–
BCM	No indication	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	–	UNKWN ✓	CAN COMM CIRCUIT (U1000)	–
HVAC	No indication	–	UNKWN	UNKWN	–	–	UNKWN	UNKWN	–	–	UNKWN ✓	–	–	–
ABS	–	NG	UNKWN	UNKWN ✓	UNKWN ✓	–	–	–	UNKWN ✓	–	–	–	CAN COMM CIRCUIT (U1000) ✓	–
IPDM E/R	No indication ✓	–	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000) ✓	–

PKIC3276E

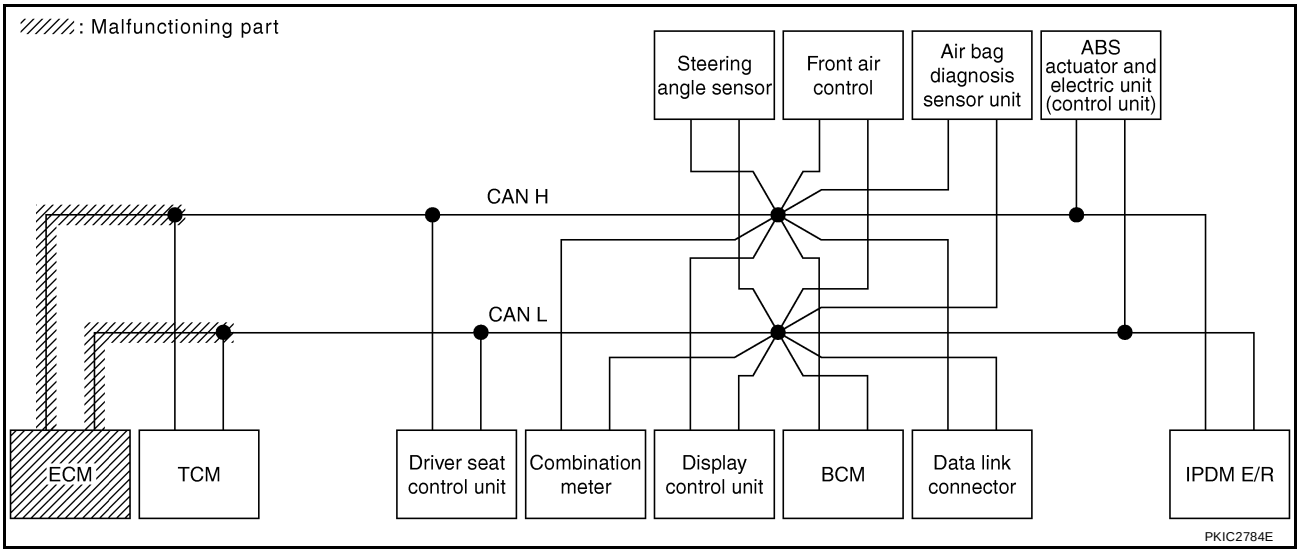


Case 4

Check ECM circuit. Refer to LAN-145, "ECM Circuit Inspection" .

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

PKIC3277E

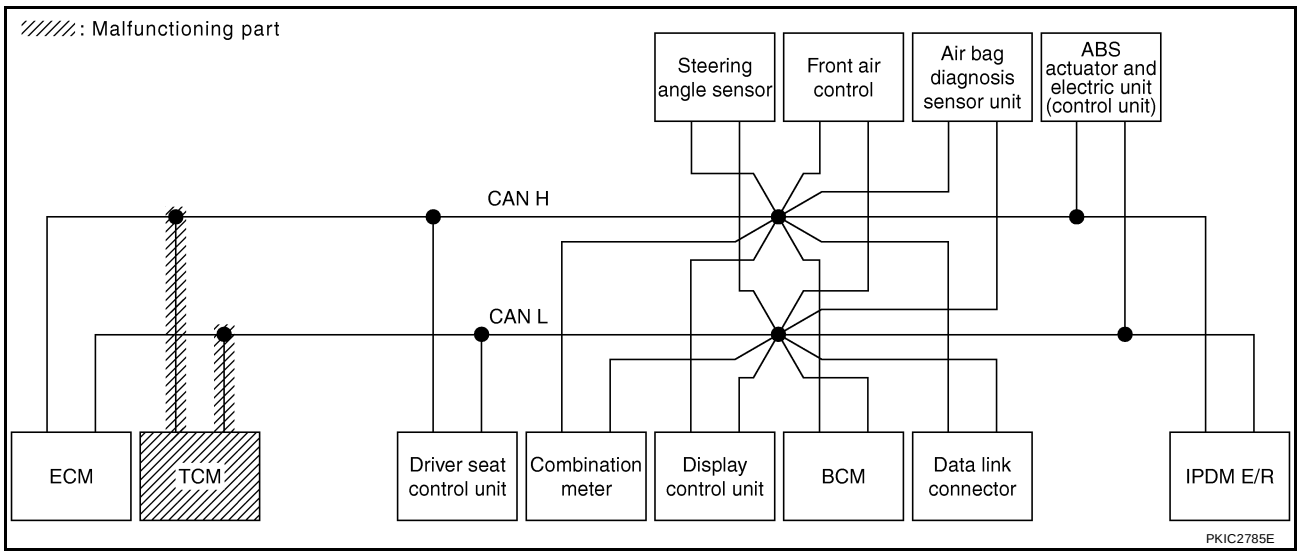


Case 5

Check TCM circuit. Refer to LAN-146, "TCM Circuit Inspection" .

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

PKIC3278E

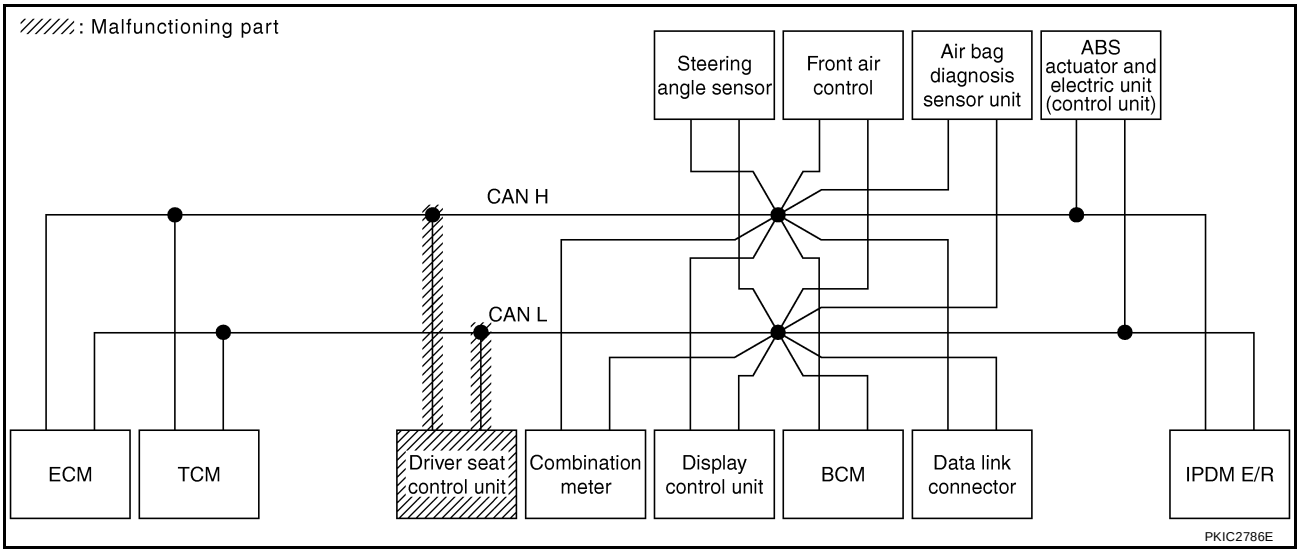


Case 6

Check driver seat control unit circuit. Refer to LAN-146, "Driver Seat Control Unit Circuit Inspection" .

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

PKIC3279E

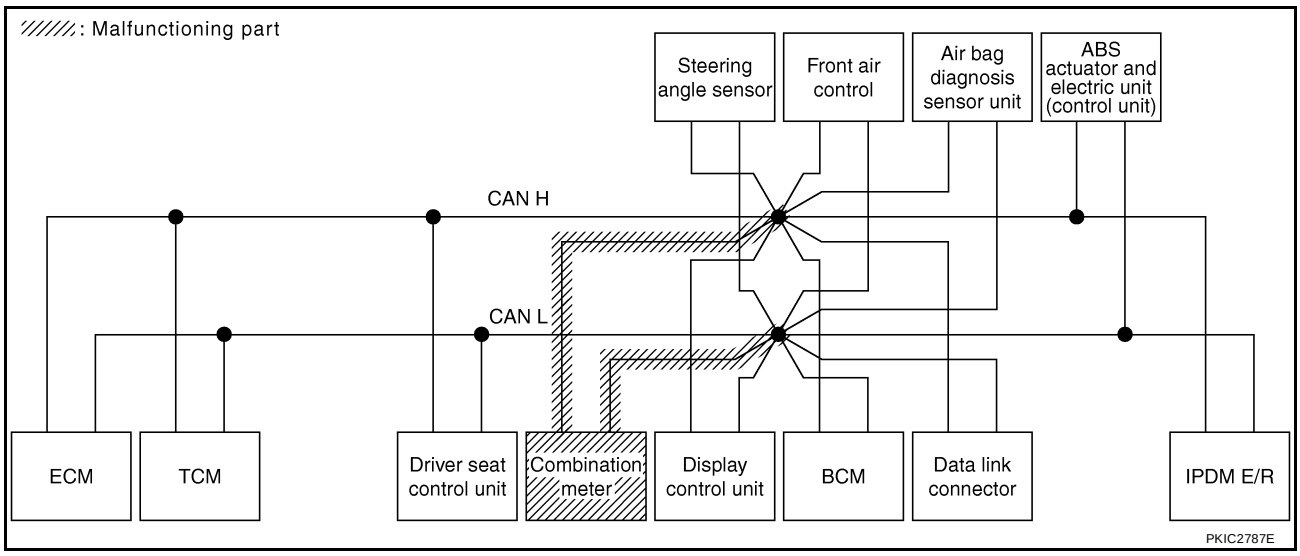


Case 7

Check combination meter circuit. Refer to LAN-147, "Combination Meter Circuit Inspection" .

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

PKIC3280E

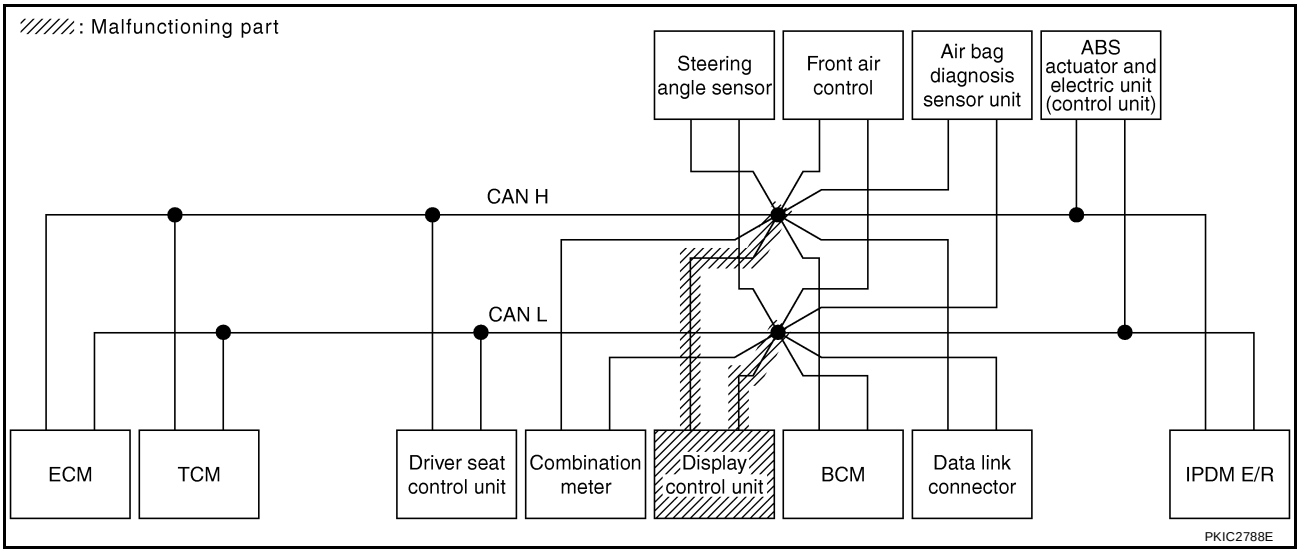


Case 8

Check display control unit circuit. Refer to LAN-147, "Display Control Unit Circuit Inspection" .

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

PKIC3281E

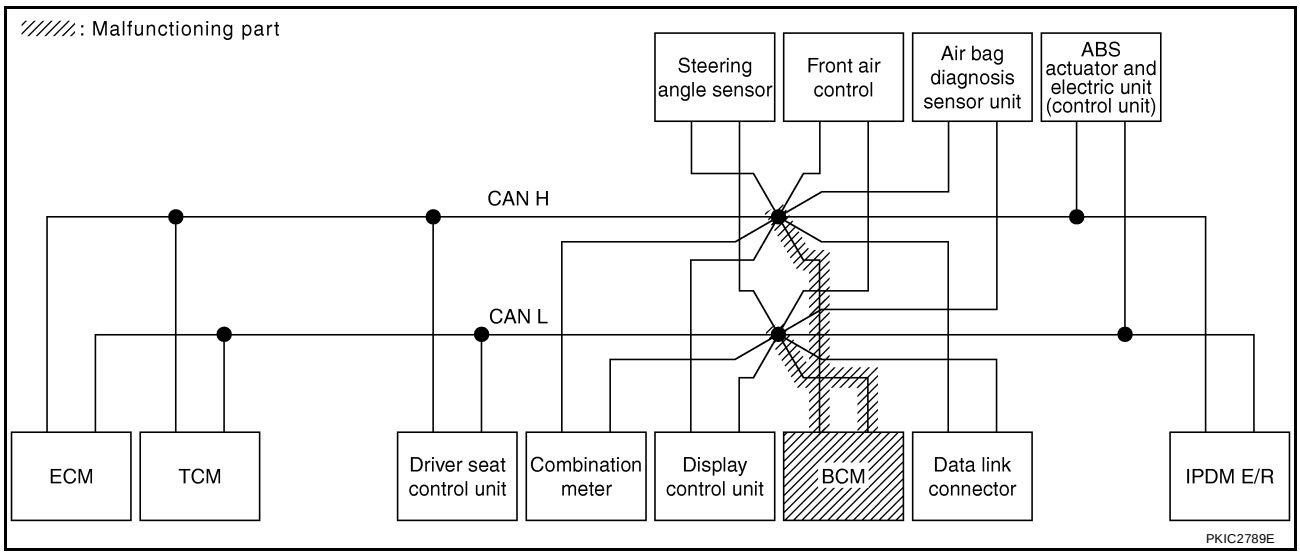


Case 9

Check BCM circuit. Refer to LAN-148, "BCM Circuit Inspection" .

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

PKIC3282E

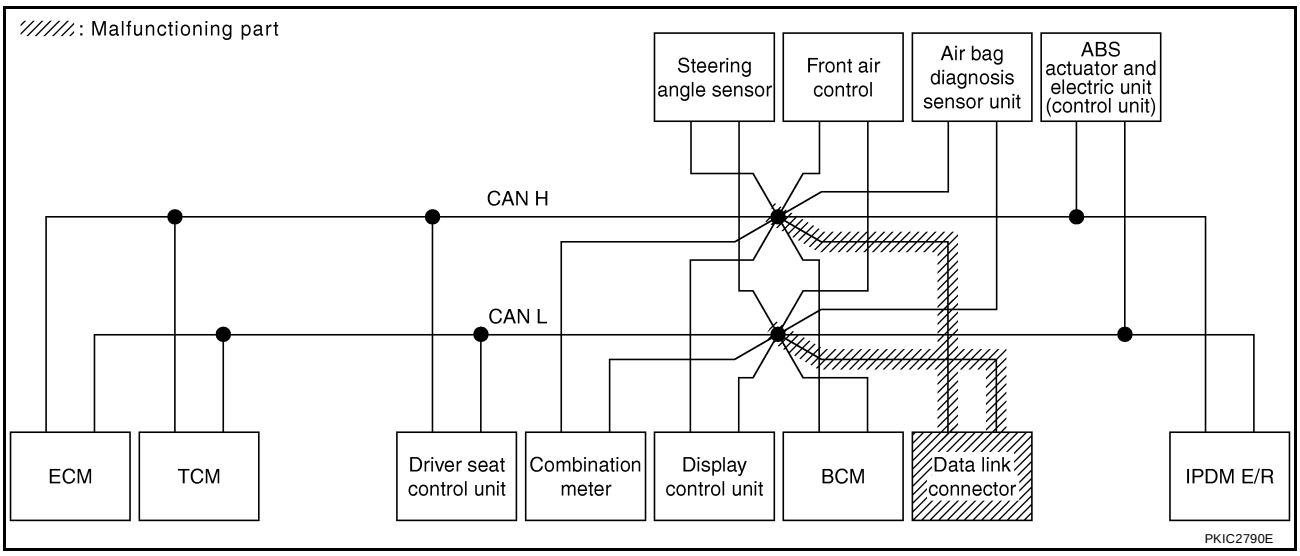


Case 10

Check data link connector circuit. Refer to LAN-148, "Data Link Connector Circuit Inspection" .

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

PKIC3283E

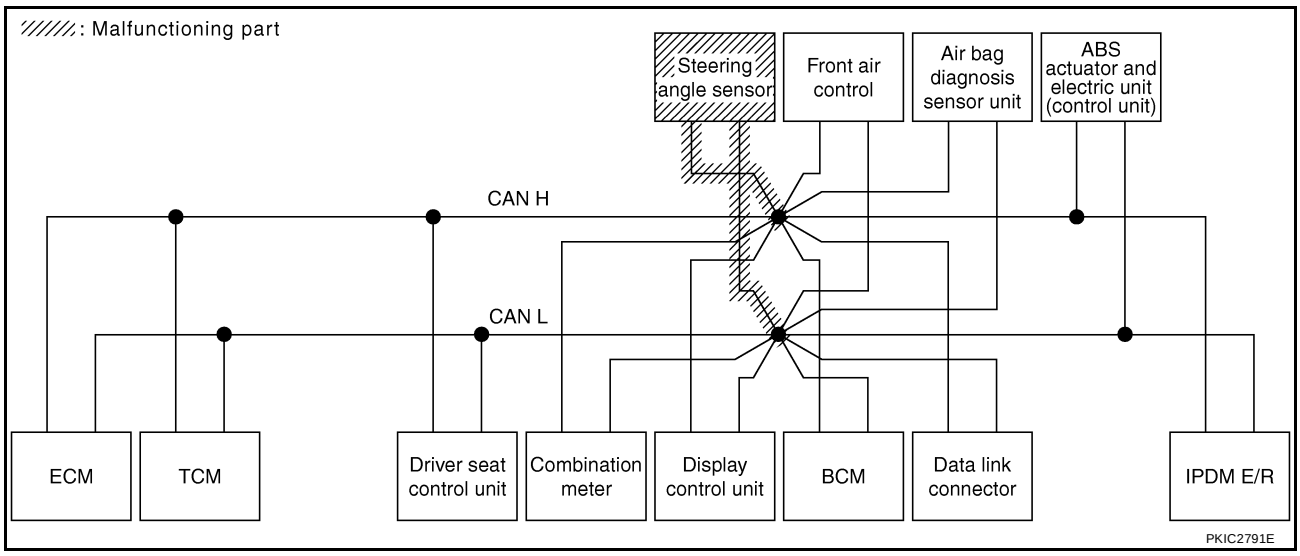


Case 11

Check steering angle sensor circuit. Refer to LAN-149, "Steering Angle Sensor Circuit Inspection" .

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

PKIC3284E



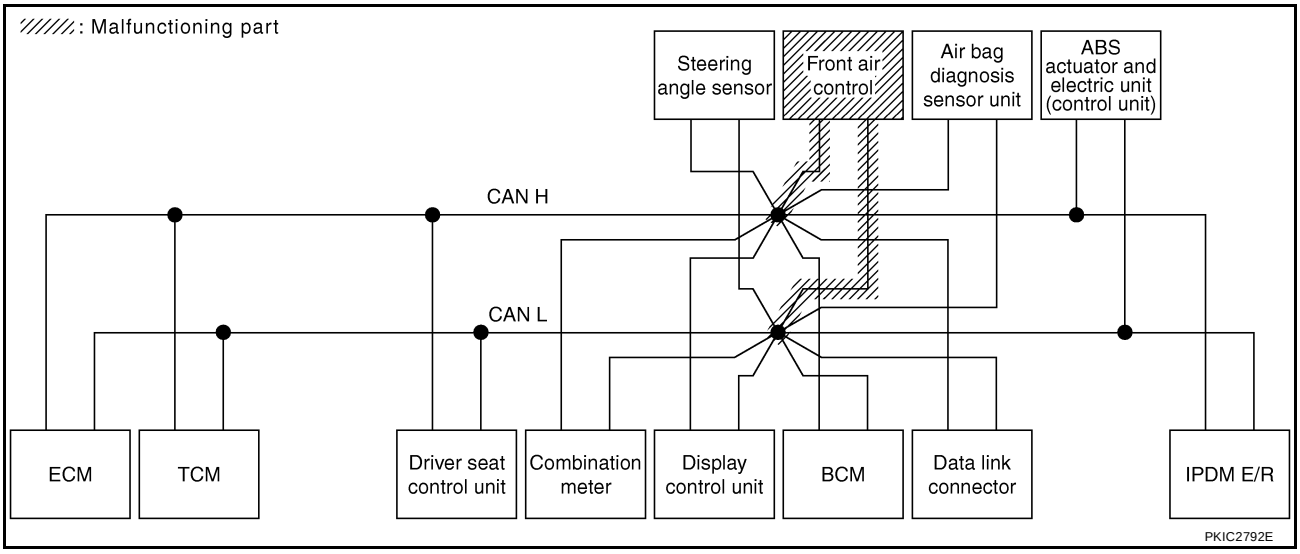
PKIC2791E

Case 12

Check front air control circuit. Refer to LAN-149, "Front Air Control Circuit Inspection" .

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

PKIC3285E

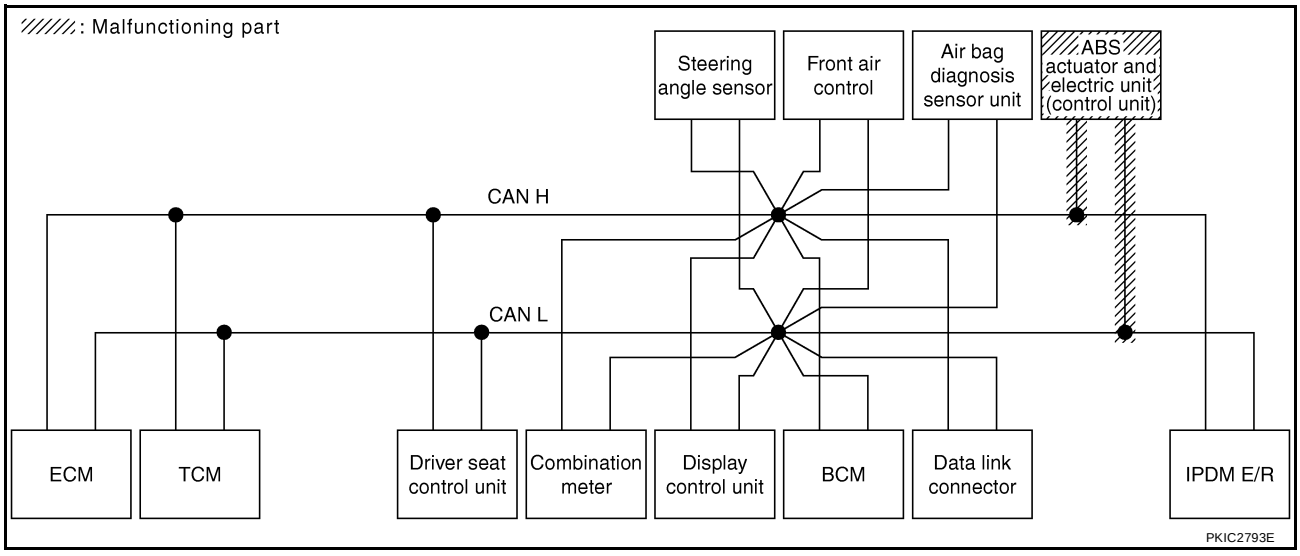


Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-151, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

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

PKIC3286E

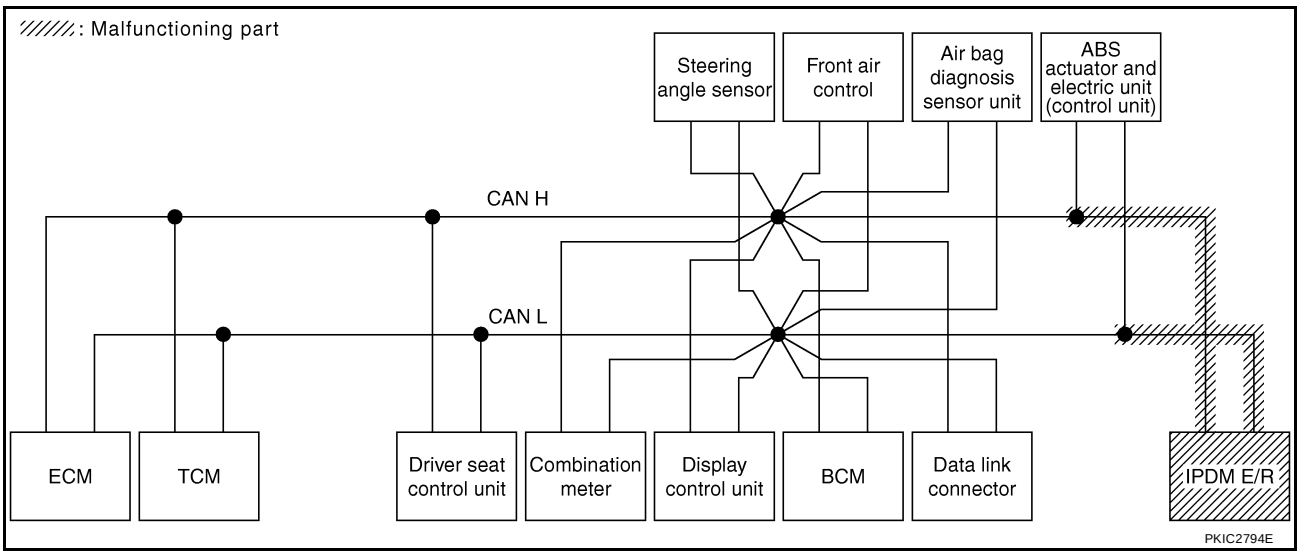


Case 14

Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection" .

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

PKIC3287E



PKIC2794E

Case 15

Check CAN communication circuit. Refer to LAN-152, "CAN Communication Circuit Inspection" .

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

PKIC3288E

Case 16

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3289E

Case 17

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3290E

CAN SYSTEM (TYPE 4)

PFP:23710

Component Parts and Harness Connector Location

UKS004SD

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

UKS004SE

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

UKS004SF

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

UKS004SG

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

Check sheet table

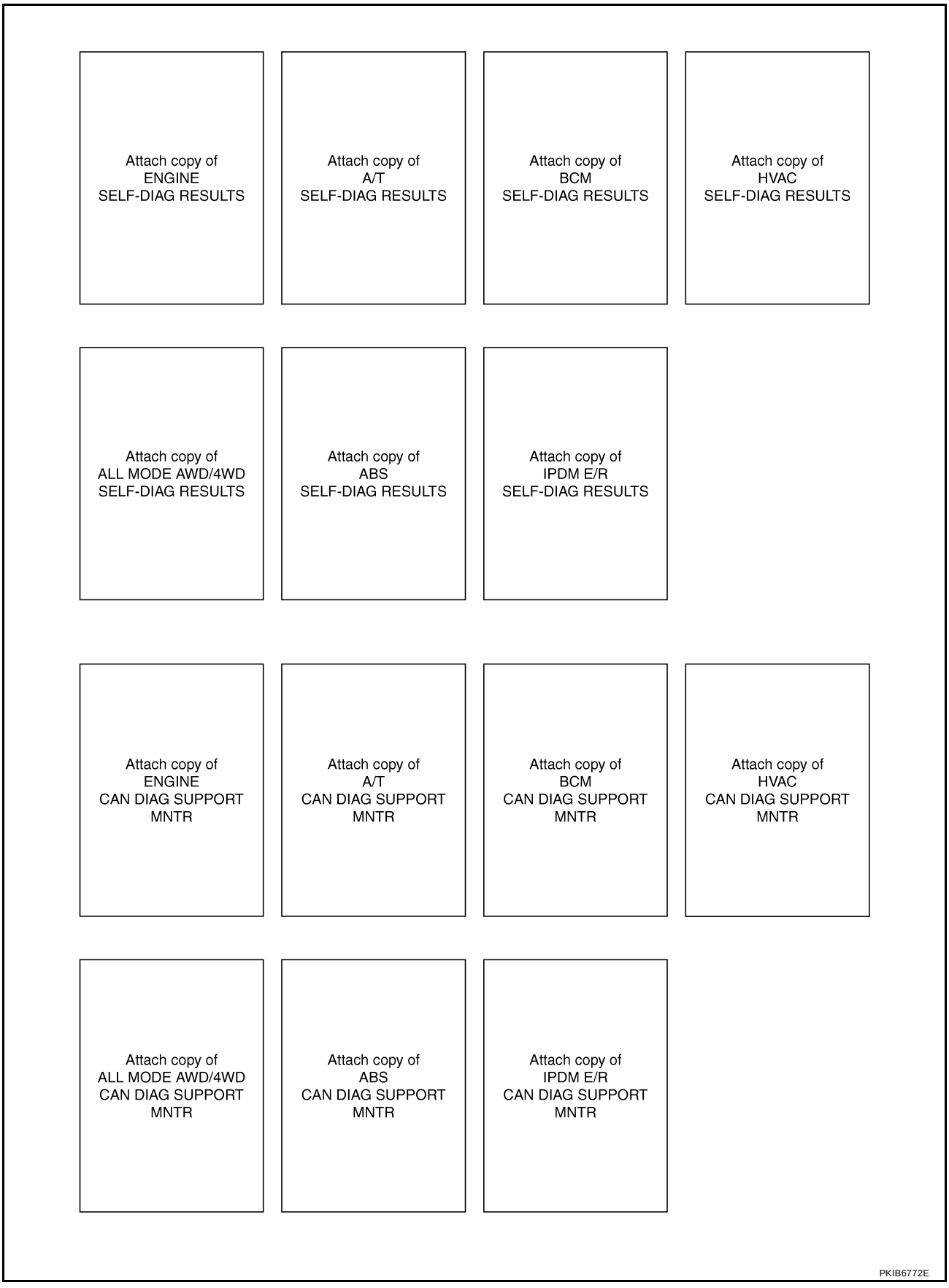
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	UNKWN	–	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT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

Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIC3464E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
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HVAC
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS
Attach copy of
ABS
SELF-DIAG RESULTS
Attach copy of
IPDM E/R
SELF-DIAG RESULTS
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ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
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MNTR
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BCM
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HVAC
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MNTR
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ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB6772E

CHECK SHEET RESULTS (EXAMPLE)

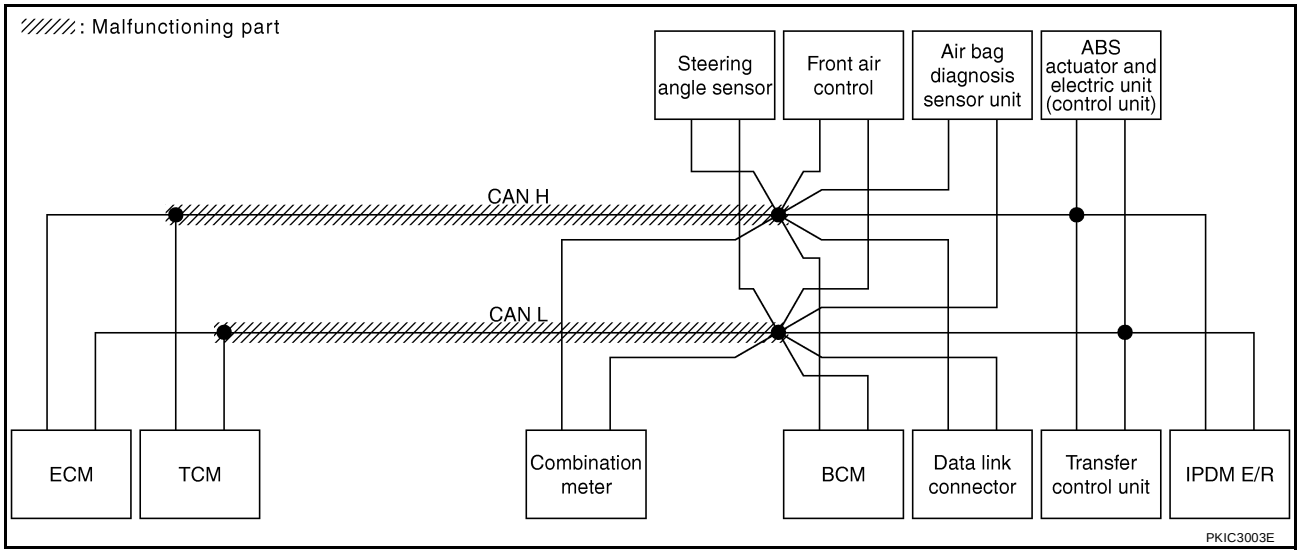
NOTE:
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to LAN-142, "Inspection Between TCM and Data Link Connector Circuit" .

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

PKIC3467E



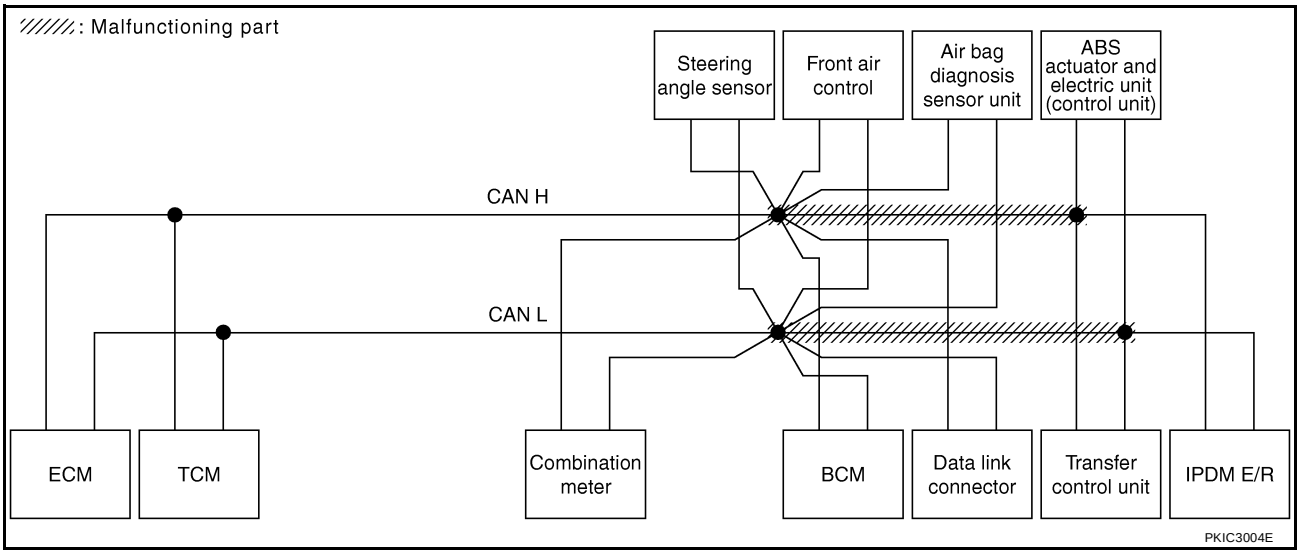
PKIC3003E

Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-144, "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	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	UNKWN	–	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
BCM	No indication	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
HVAC	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	–	UNKWN	–	–	–
ALL MODE AWD/4WD	No indication	–	UNKWN	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
ABS	–	NG	UNKWN	UNKWN	UNKWN	–	–	UNKWN	UNKWN	–	–	CAN COMM CIRCUIT (U1000)	–
IPDM E/R	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–

PKIC3468E

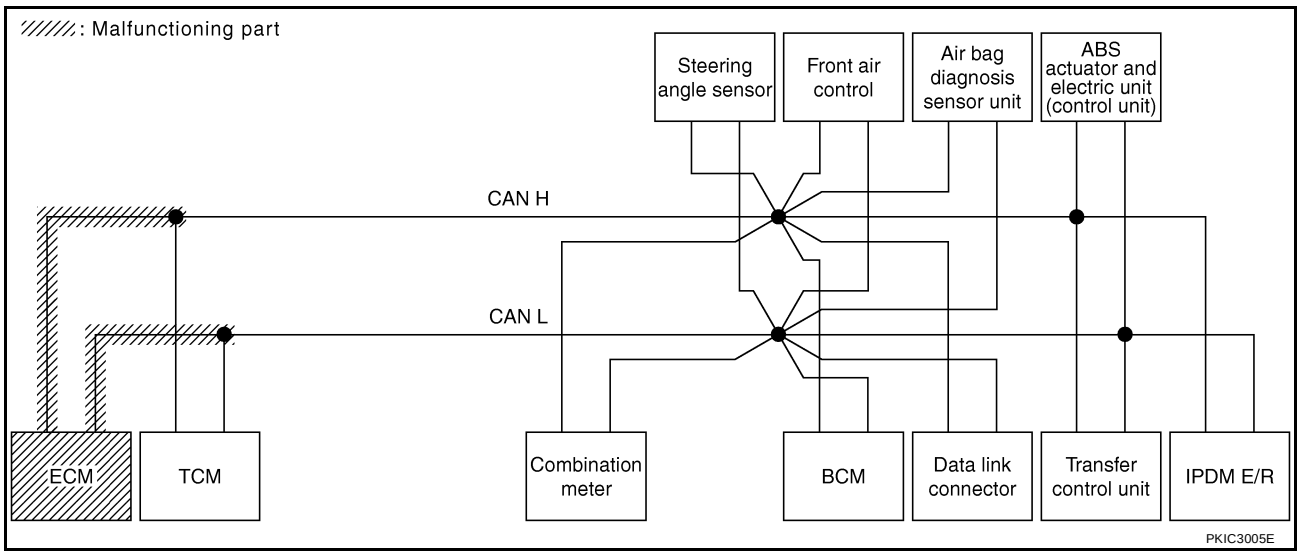


Case 3

Check ECM circuit. Refer to LAN-145, "ECM Circuit Inspection" .

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

PKIC3469E



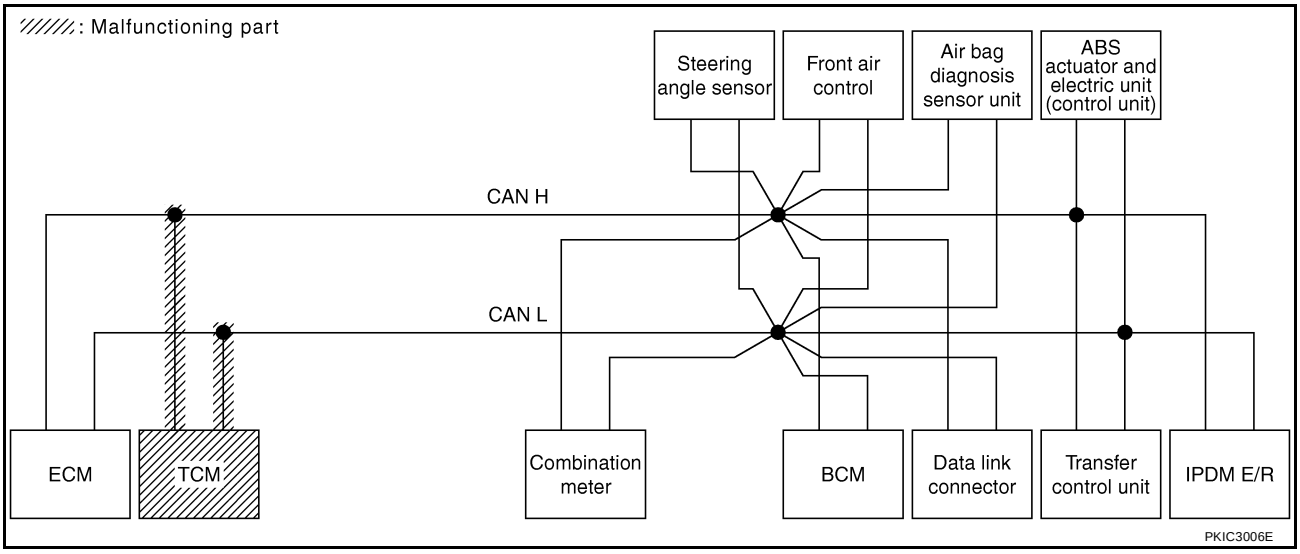
PKIC3005E

Case 4

Check TCM circuit. Refer to LAN-146, "TCM Circuit Inspection" .

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

PKIC3470E



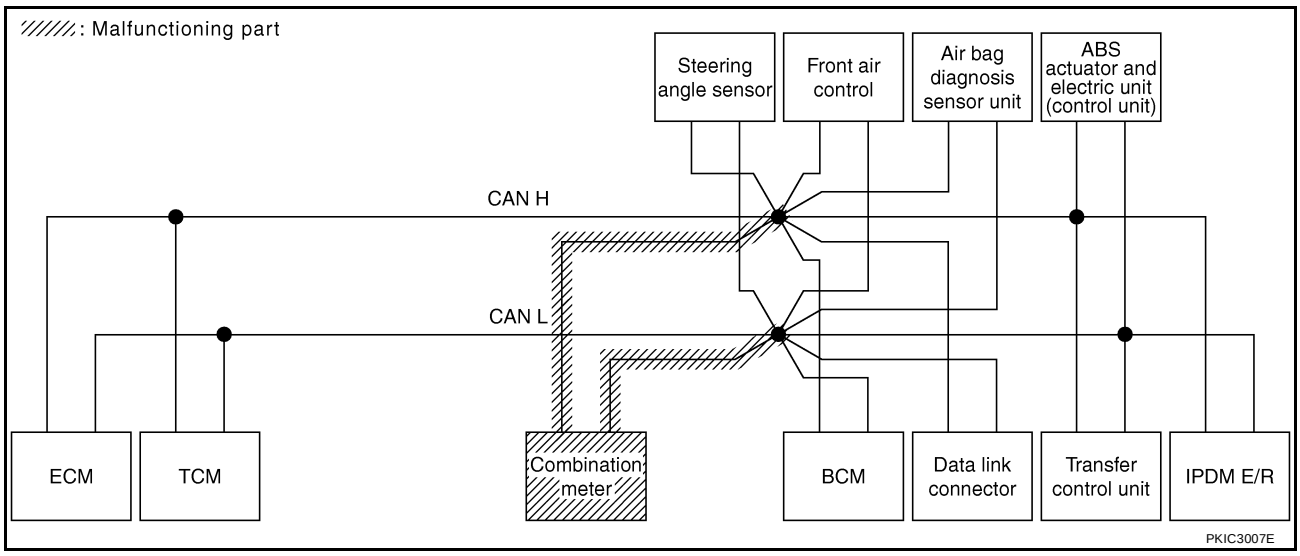
PKIC3006E

Case 5

Check combination meter circuit. Refer to LAN-147, "Combination Meter Circuit Inspection" .

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

PKIC3471E



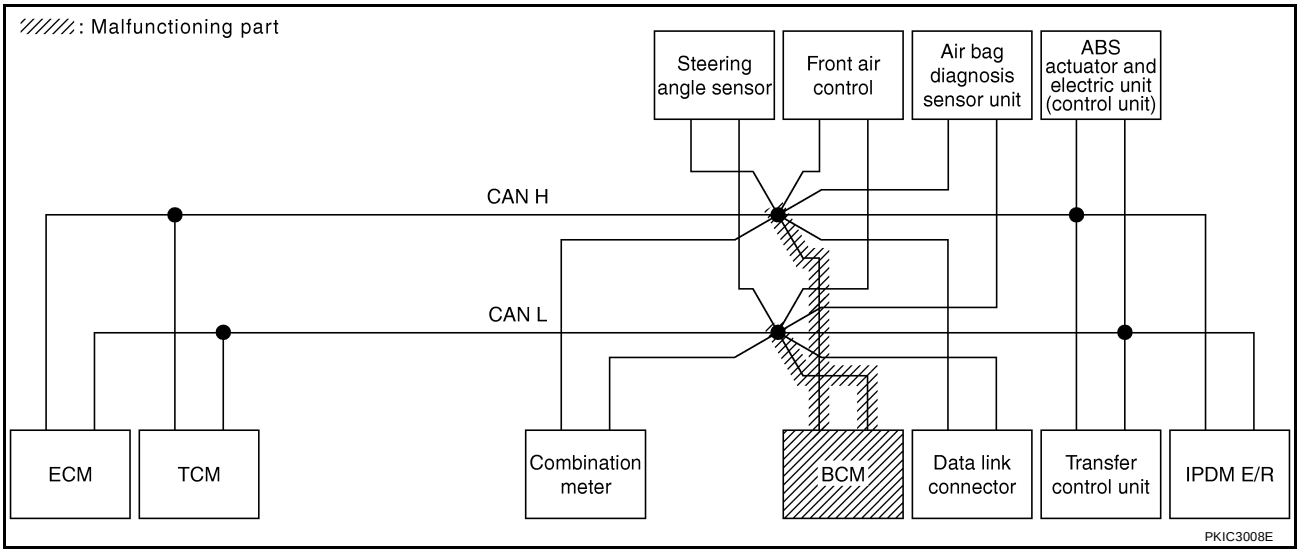
PKIC3007E

Case 6

Check BCM circuit. Refer to LAN-148, "BCM Circuit Inspection" .

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

PKIC3472E



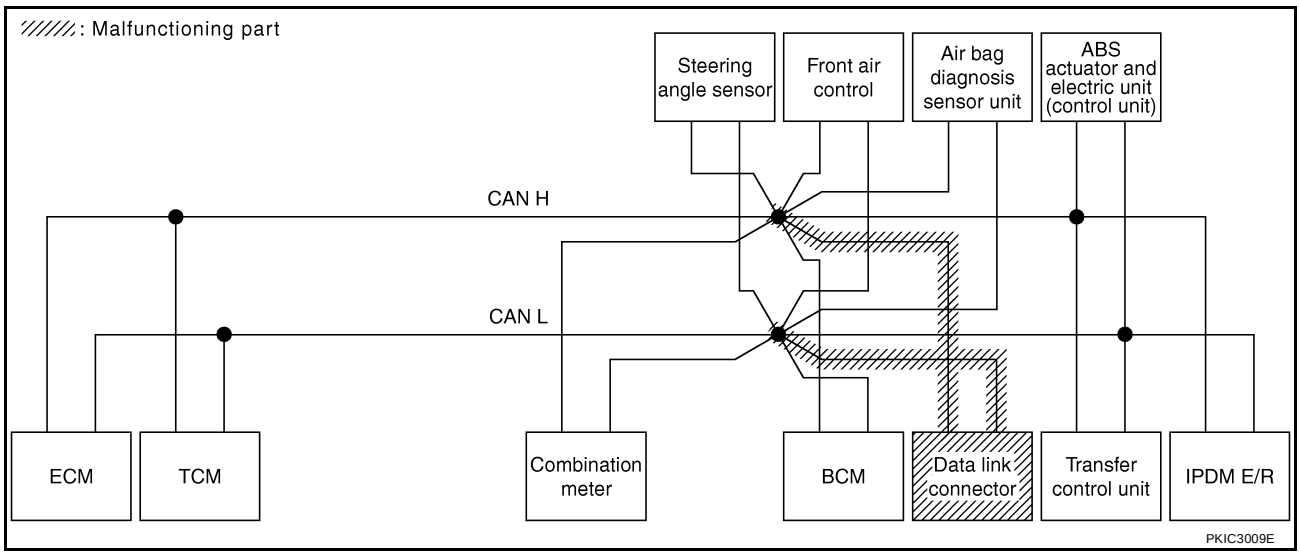
PKIC3008E

Case 7

Check data link connector circuit. Refer to LAN-148, "Data Link Connector Circuit Inspection" .

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

PKIC3473E



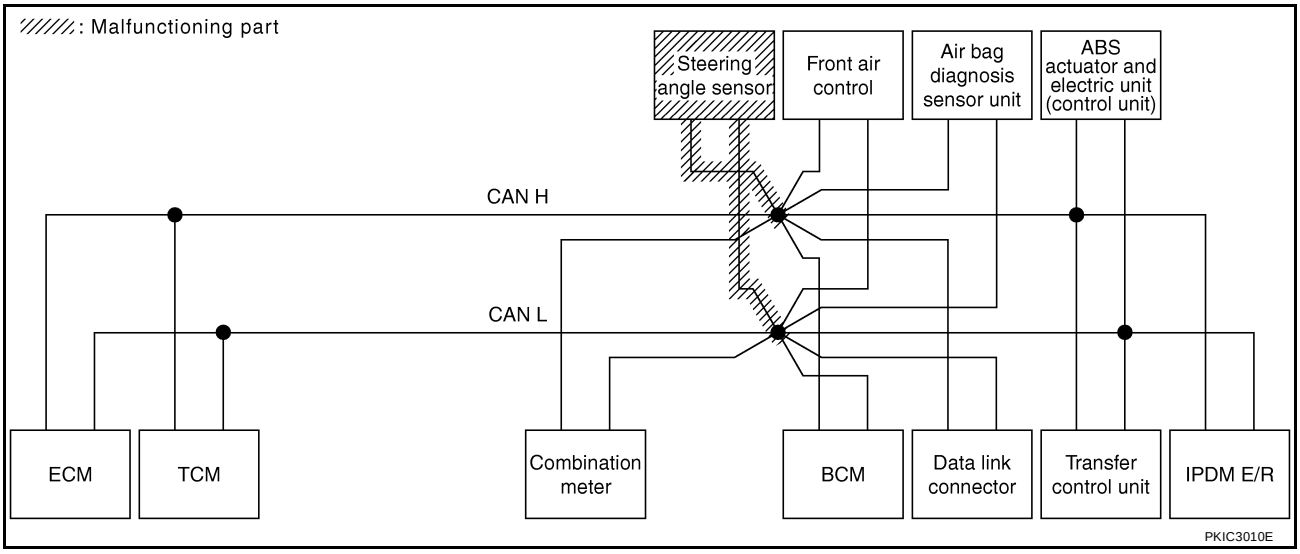
PKIC3009E

Case 8

Check steering angle sensor circuit. Refer to LAN-149, "Steering Angle Sensor Circuit Inspection" .

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

PKIC3474E



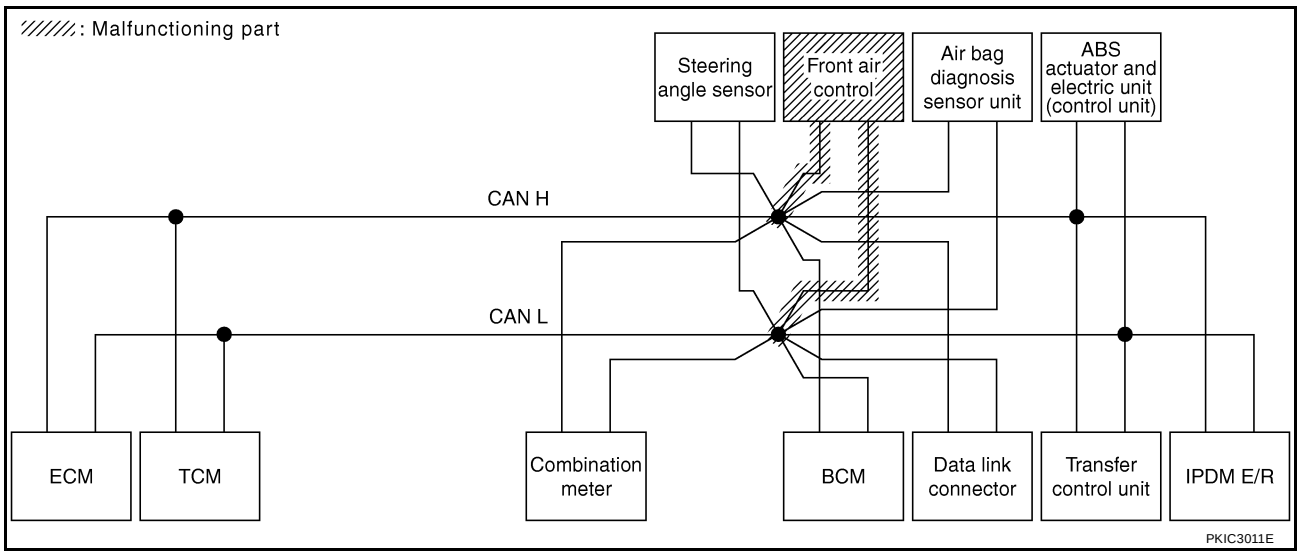
PKIC3010E

Case 9

Check front air control circuit. Refer to LAN-149, "Front Air Control Circuit Inspection" .

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

PKIC3475E



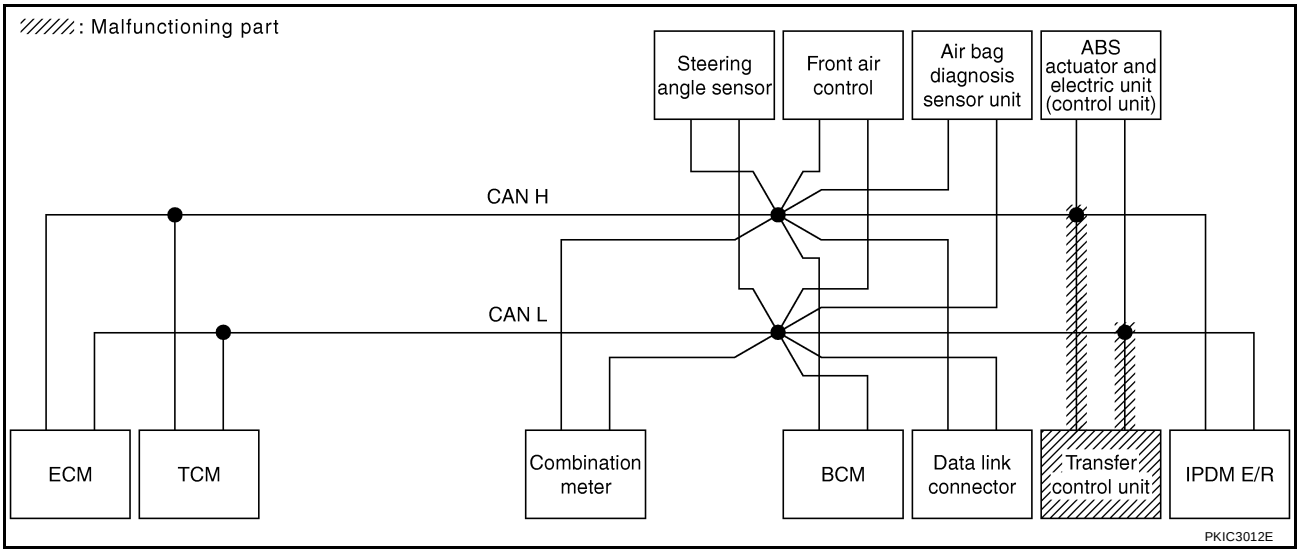
PKIC3011E

Case 10

Check transfer control unit circuit. Refer to LAN-150, "Transfer Control Unit Circuit Inspection" .

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

PKIC3476E

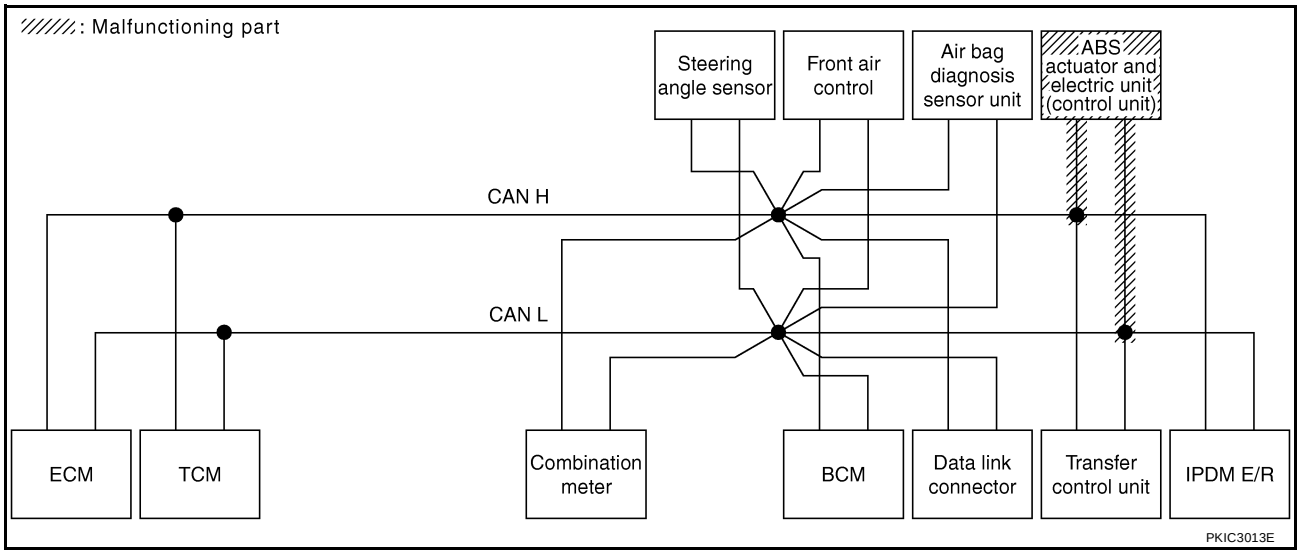


Case 11

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-151, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

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

PKIC3477E

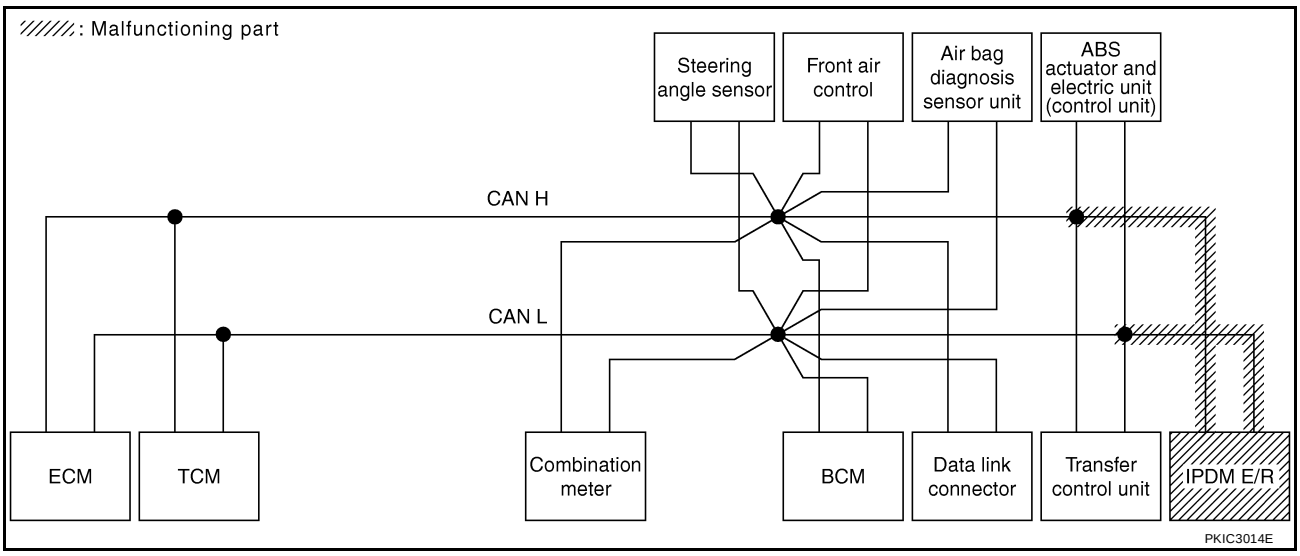


Case 12

Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection" .

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

PKIC3478E



PKIC3014E

Case 13

Check CAN communication circuit. Refer to LAN-152, "CAN Communication Circuit Inspection" .

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

PKIC3479E

Case 14

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3480E

Case 15

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3481E

CAN SYSTEM (TYPE 5)

PFP:23710

Component Parts and Harness Connector Location

UKS004SH

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

UKS004SI

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

UKS004SJ

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

UKS004SK

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

Check sheet table

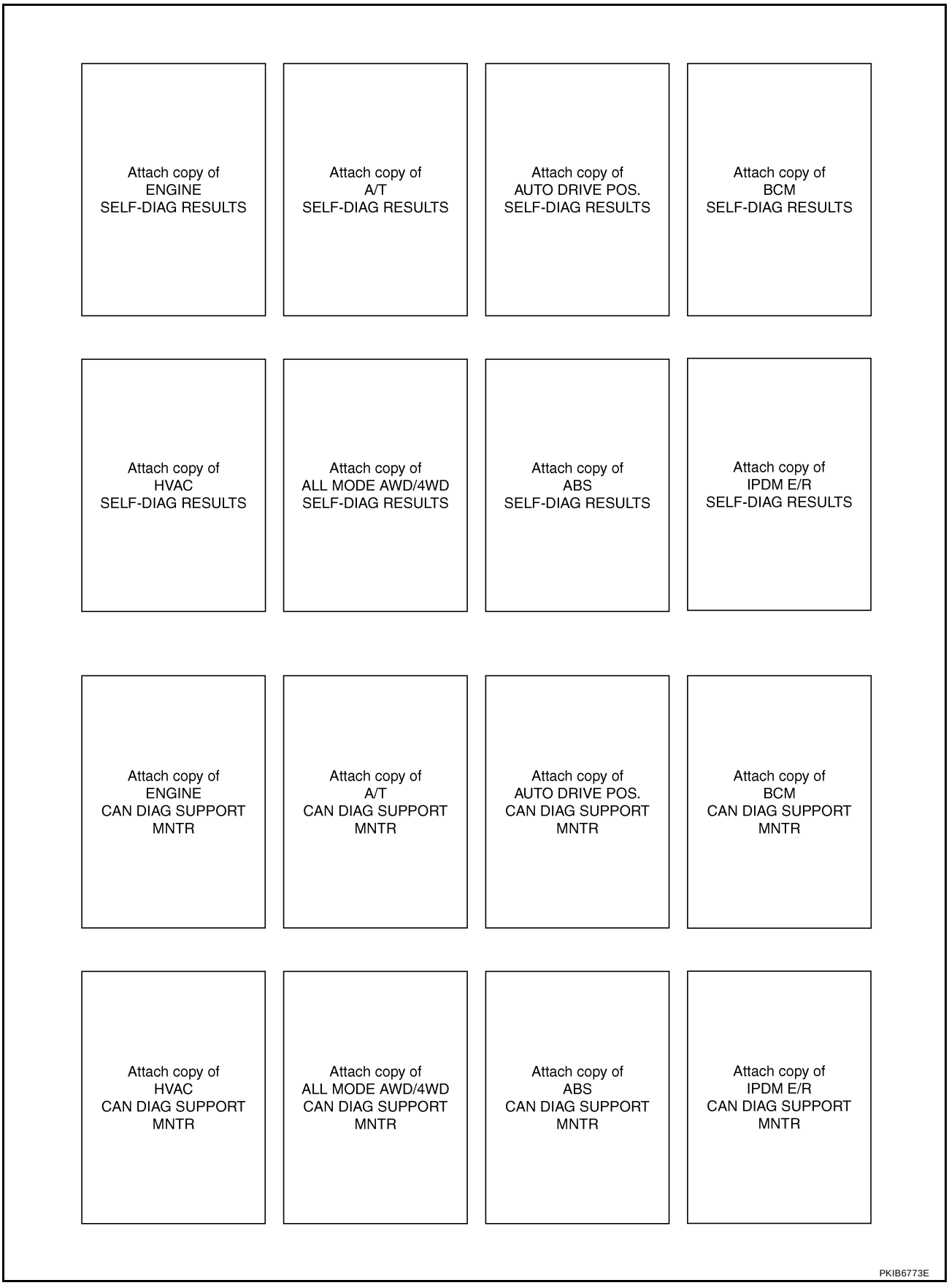
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	UNKWN	–	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT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

Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIC3465E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
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ALL MODE AWD/4WD
SELF-DIAG RESULTS
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SELF-DIAG RESULTS
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IPDM E/R
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MNTR
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A/T
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MNTR
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CAN DIAG SUPPORT
MNTR
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BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB6773E

CHECK SHEET RESULTS (EXAMPLE)

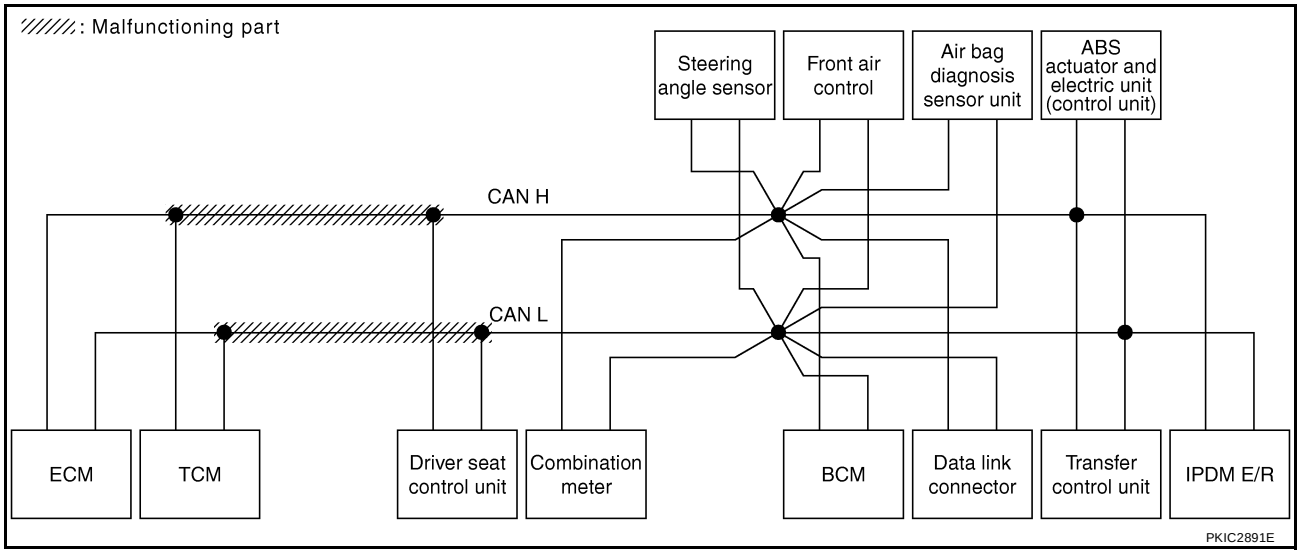
NOTE:
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and driver seat control unit. Refer to LAN-141, "Inspection Between TCM and Driver Seat Control Unit Circuit" .

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

PKIC3482E



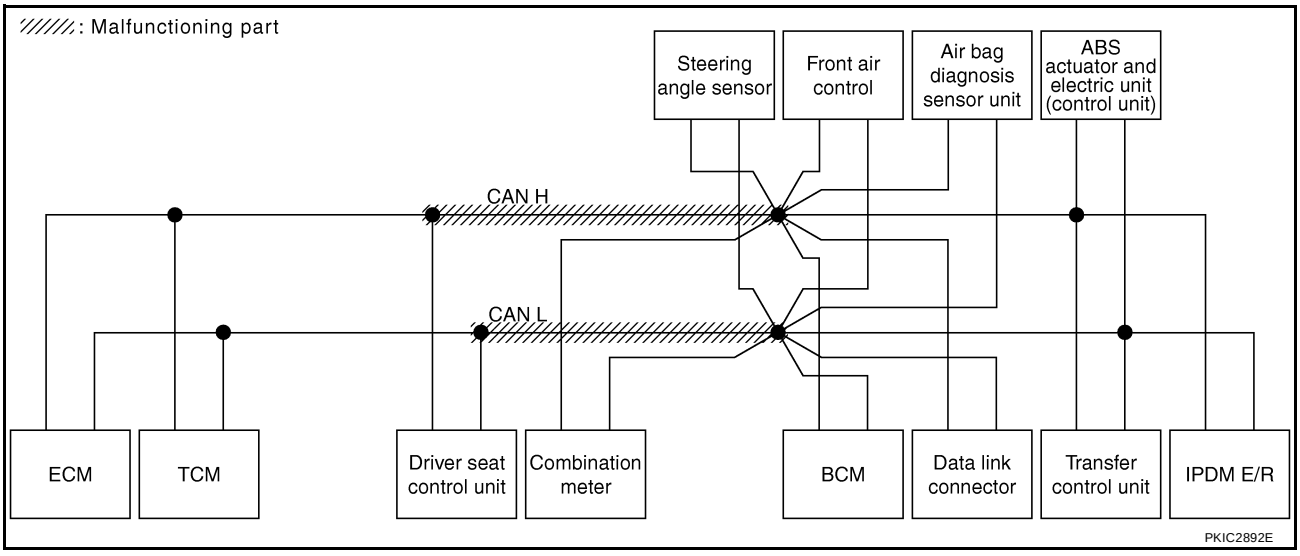
PKIC2891E

Case 2

Check harness between driver seat control unit unit and data link connector. Refer to LAN-143, "Inspection Between Driver Seat Control Unit and Data Link Connector Circuit" .

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

PKIC3483E

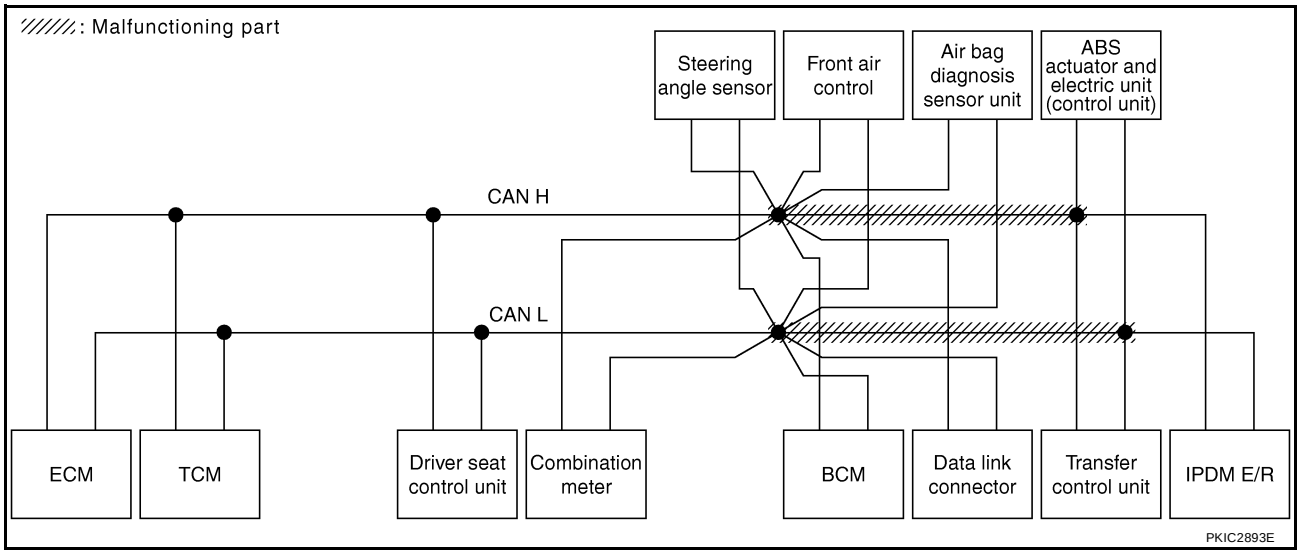


Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-144, "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	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	UNKWN	–	UNKWN ✓	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
A/T	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN ✓	UNKWN ✓	–	CAN COMM CIRCUIT (U1000) ✓	–
AUTO DRIVE POS.	No indication	–	–	–	UNKWN	UNKWN	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
BCM	No indication	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	UNKWN ✓	CAN COMM CIRCUIT (U1000)	–
HVAC	No indication	–	UNKWN	UNKWN	–	–	UNKWN	–	–	UNKWN ✓	–	–	–
ALL MODE AWD/4WD	No indication ✓	–	UNKWN	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	–	CAN COMM CIRCUIT (U1000) ✓	–
ABS	–	NG	UNKWN	UNKWN ✓	UNKWN ✓	–	–	UNKWN ✓	UNKWN	–	–	CAN COMM CIRCUIT (U1000) ✓	–
IPDM E/R	No indication ✓	–	UNKWN	UNKWN	–	–	UNKWN	–	–	–	–	CAN COMM CIRCUIT (U1000) ✓	–

PKIC3484E

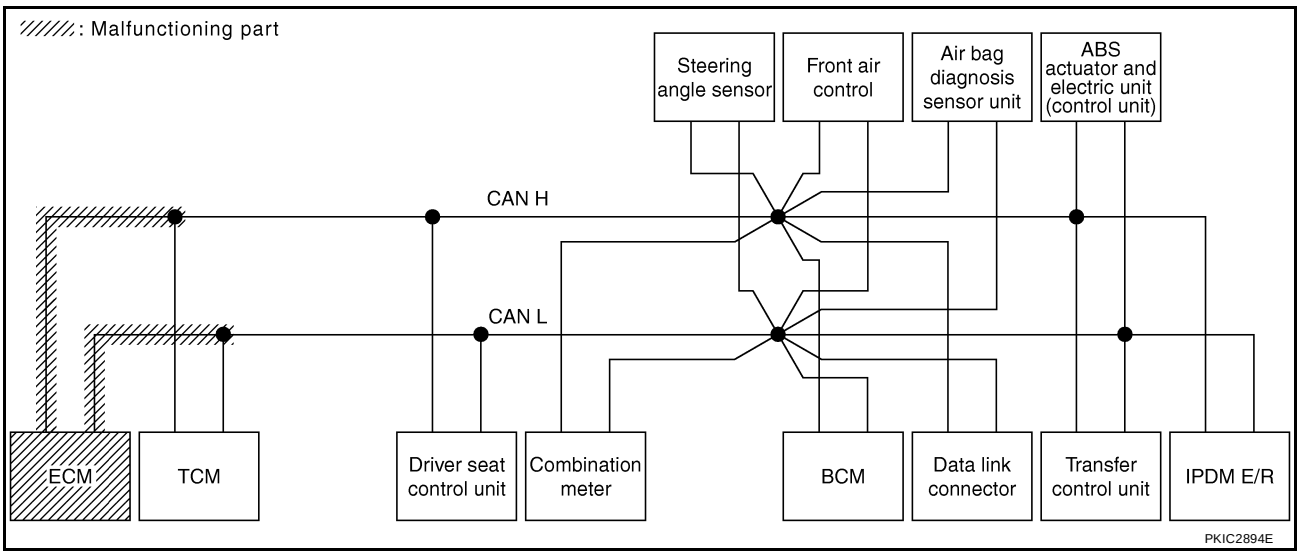


Case 4

Check ECM circuit. Refer to LAN-145, "ECM Circuit Inspection" .

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

PKIC3485E



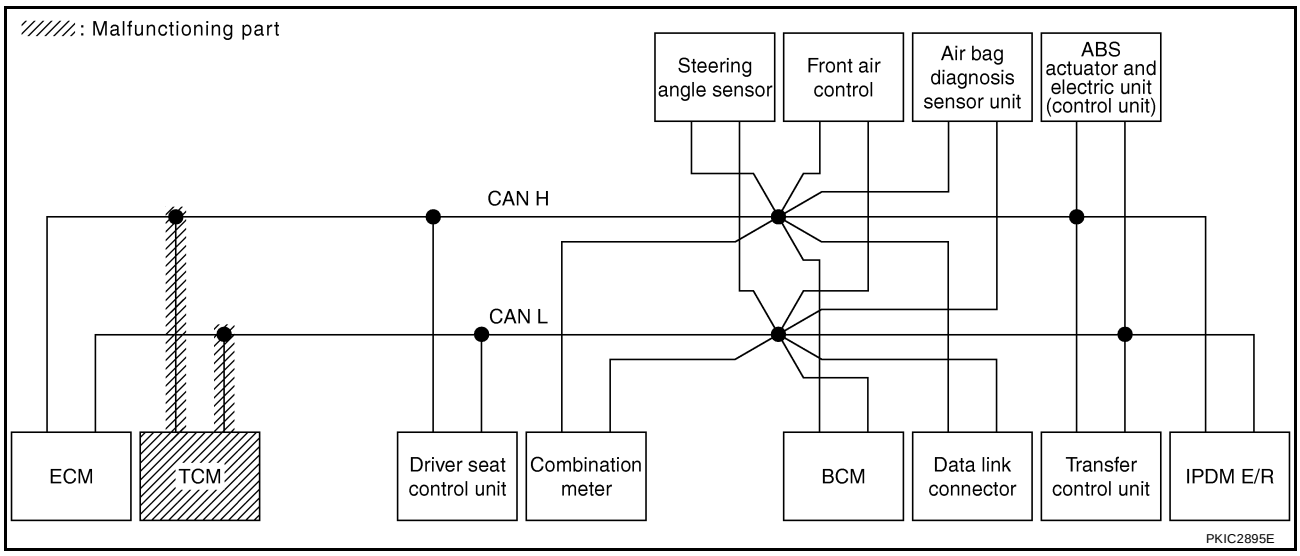
PKIC2894E

Case 5

Check TCM circuit. Refer to LAN-146, "TCM Circuit Inspection" .

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

PKIC3486E



Case 6

Check driver seat control unit circuit. Refer to LAN-146, "Driver Seat Control Unit Circuit Inspection" .

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

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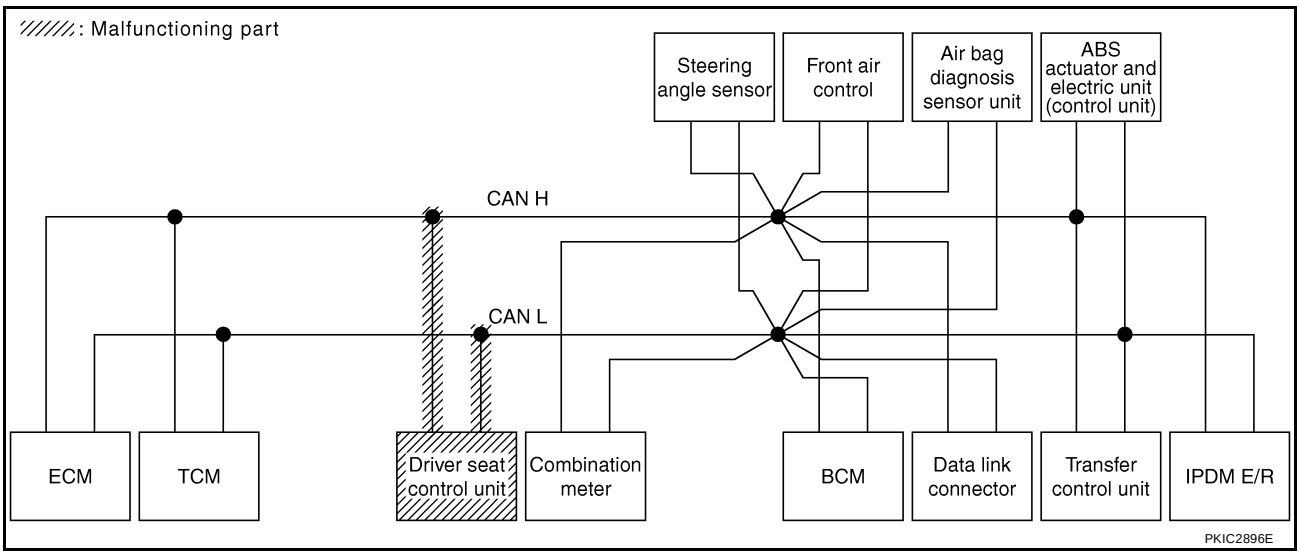
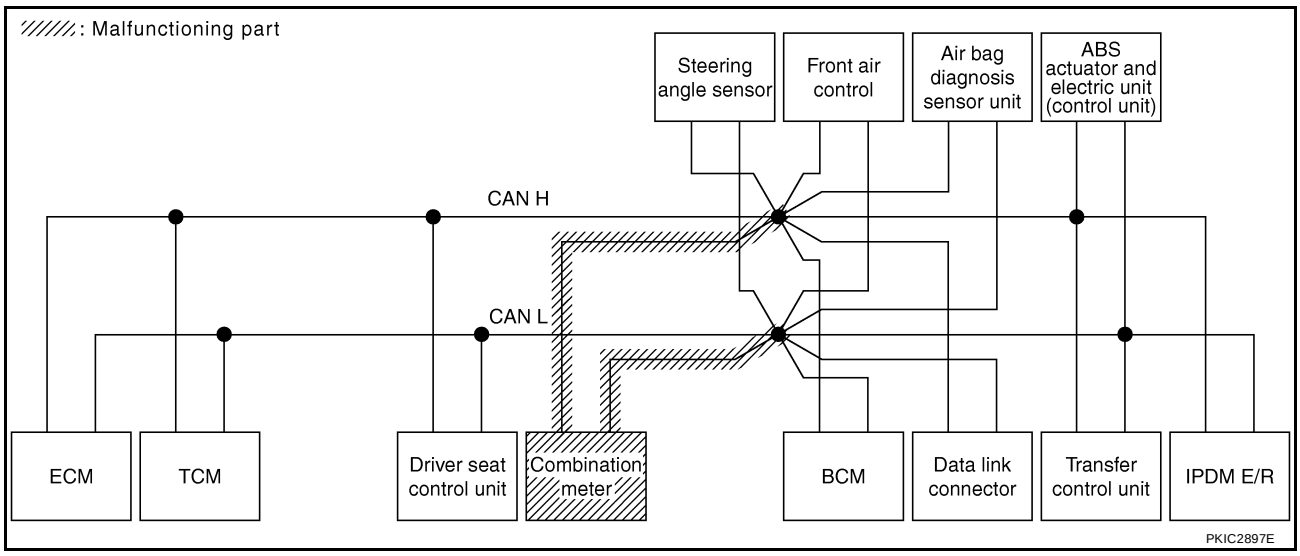


Case 7

Check combination meter circuit. Refer to LAN-147, "Combination Meter Circuit Inspection" .

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

PKIC3488E

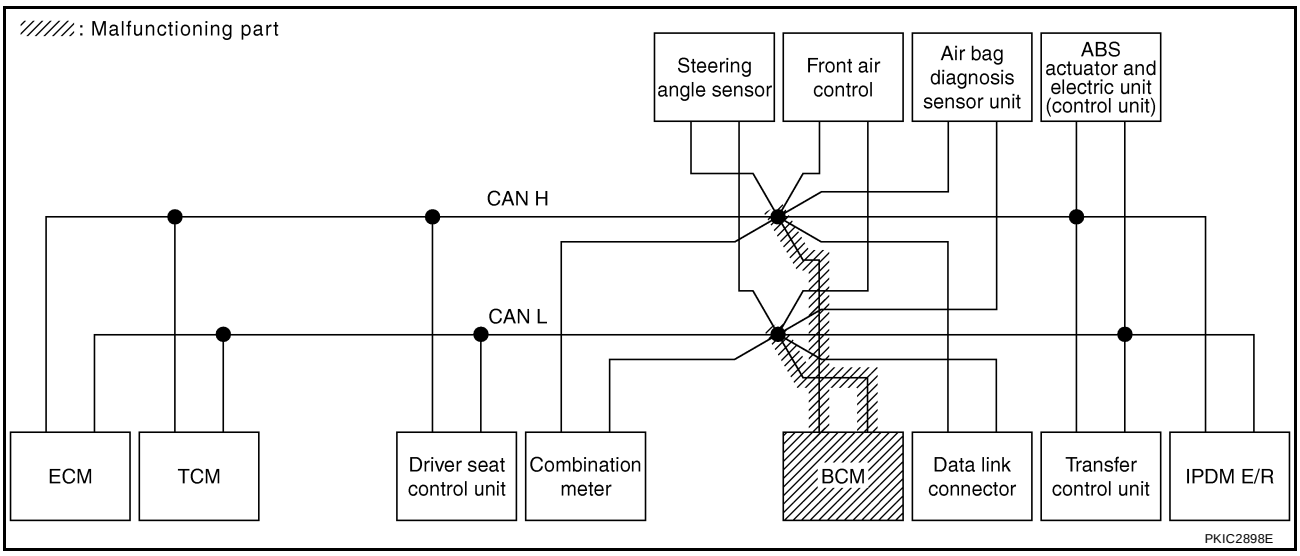


Case 8

Check BCM circuit. Refer to LAN-148, "BCM Circuit Inspection" .

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

PKIC3489E

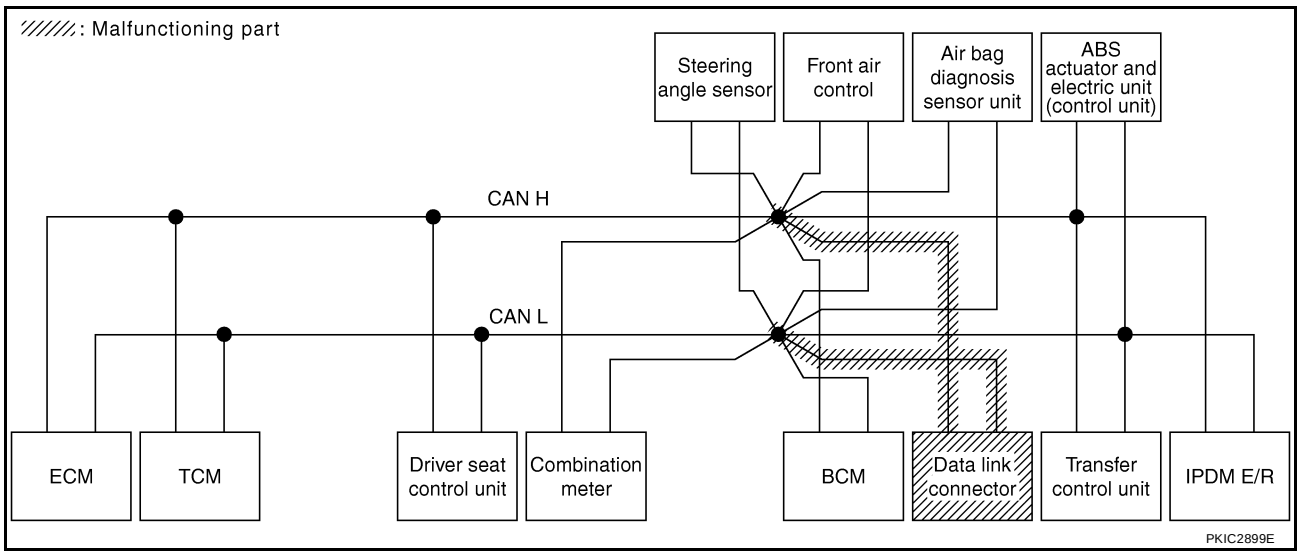


Case 9

Check data link connector circuit. Refer to LAN-148, "Data Link Connector Circuit Inspection" .

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

PKIC3490E



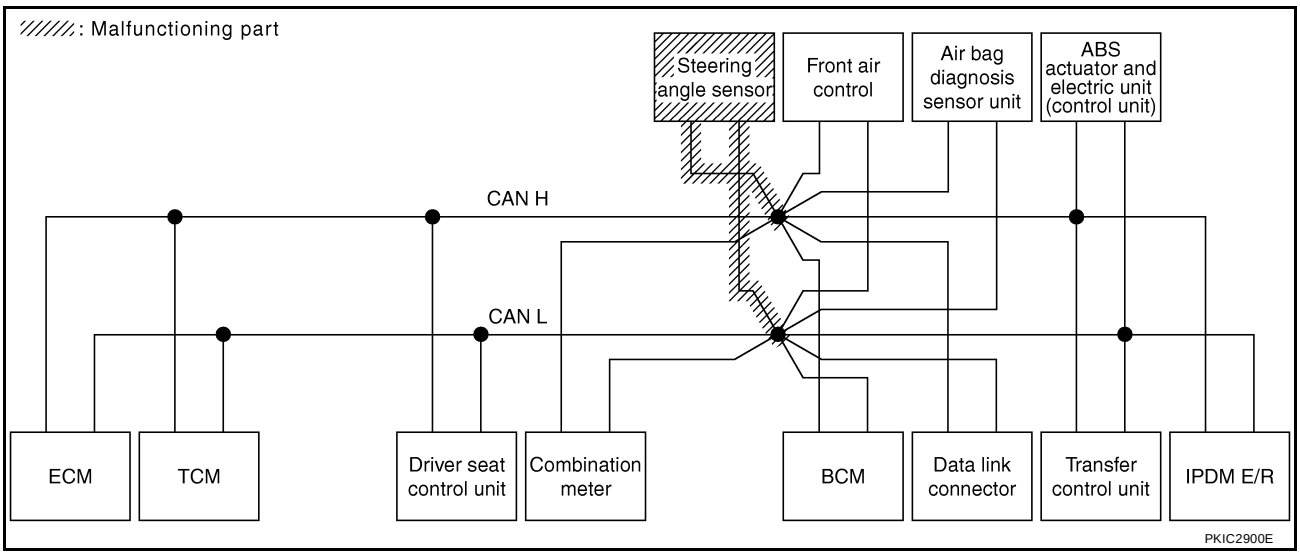
PKIC2899E

Case 10

Check steering angle sensor circuit. Refer to LAN-149, "Steering Angle Sensor Circuit Inspection" .

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

PKIC3491E

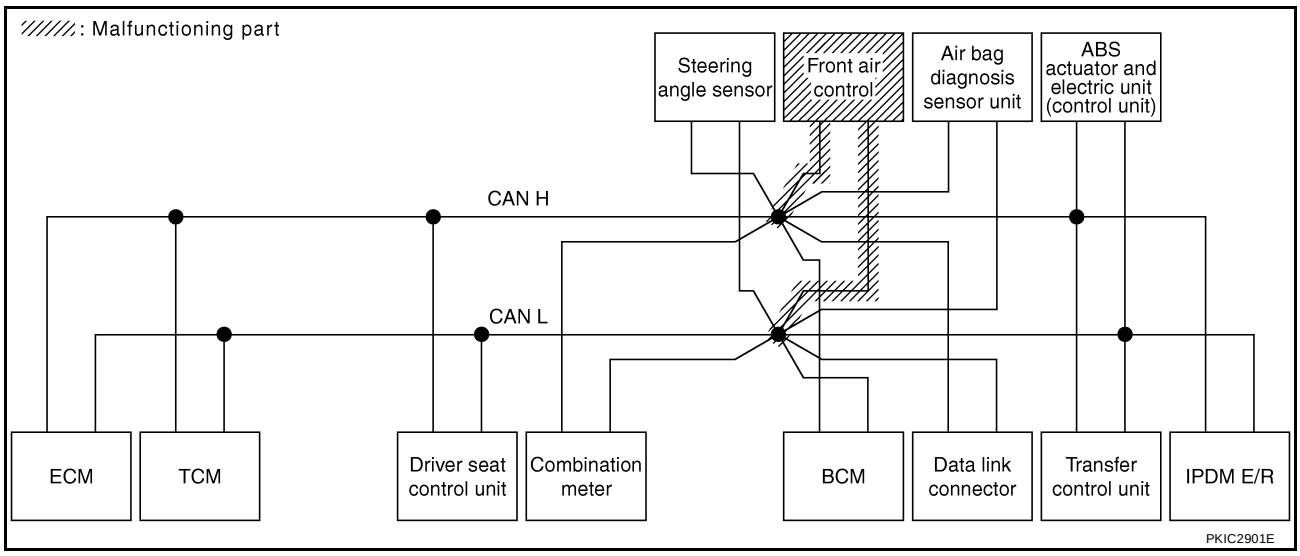


Case 11

Check front air control circuit. Refer to LAN-149, "Front Air Control Circuit Inspection" .

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

PKIC3492E



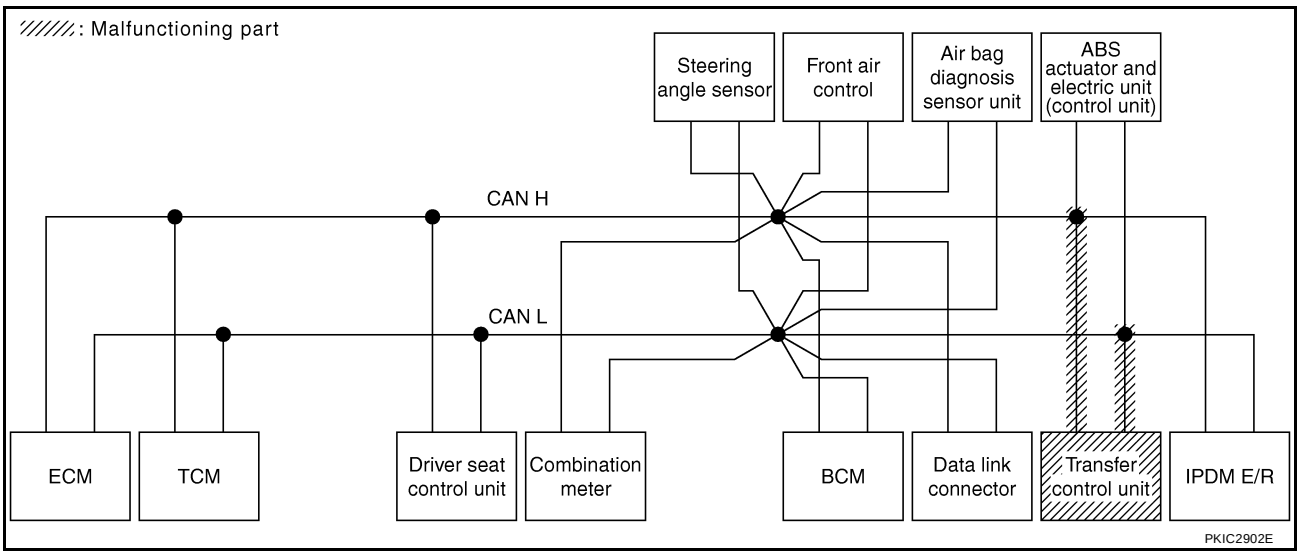
PKIC2901E

Case 12

Check transfer control unit circuit. Refer to LAN-150, "Transfer Control Unit Circuit Inspection" .

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

PKIC3493E

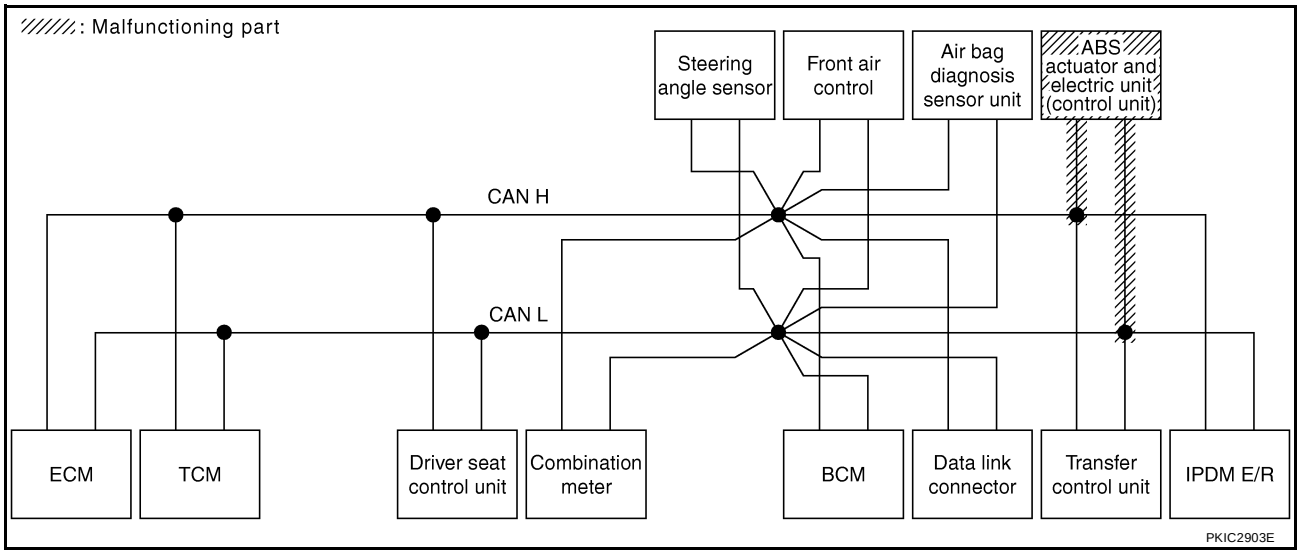


Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-151, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

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

PKIC3494E

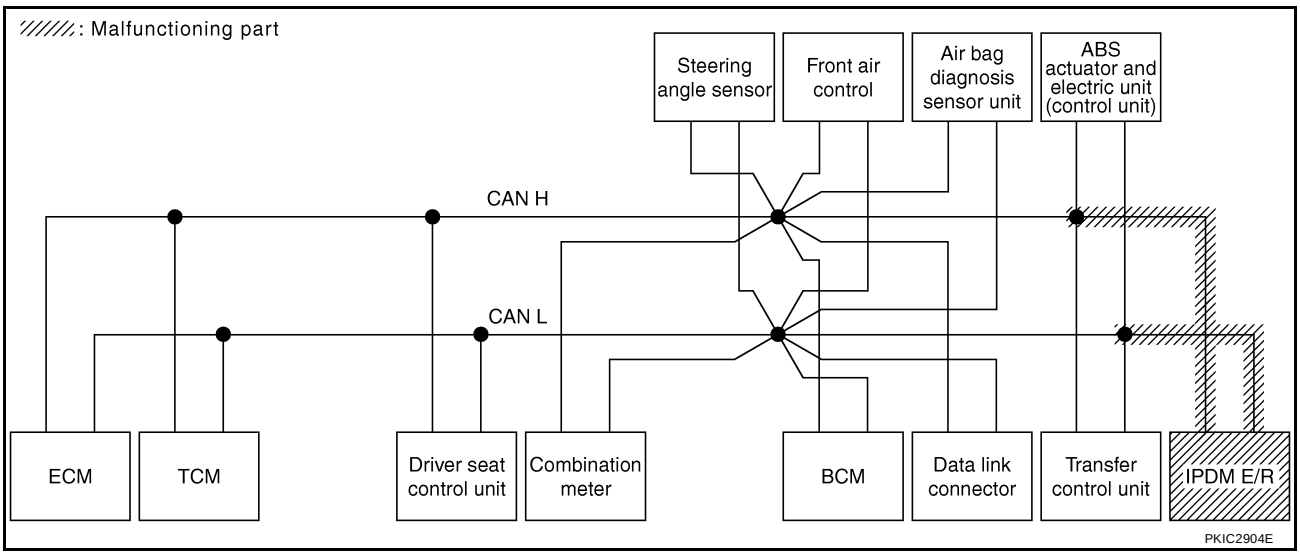


Case 14

Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection" .

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

PKIC3495E



PKIC2904E

Case 15

Check CAN communication circuit. Refer to LAN-152, "CAN Communication Circuit Inspection" .

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

PKIC3496E

Case 16

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3497E

Case 17

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3498E

CAN SYSTEM (TYPE 6)

PFP:23710

Component Parts and Harness Connector Location

UKS004SL

Refer to LAN-25, "Component Parts and Harness Connector Location" .

Schematic

UKS004SM

Refer to LAN-26, "Schematic" .

Wiring Diagram — CAN —

UKS004SN

Refer to LAN-27, "Wiring Diagram — CAN —" .

Check Sheet

UKS004SO

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

Check sheet table

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

Symptoms :

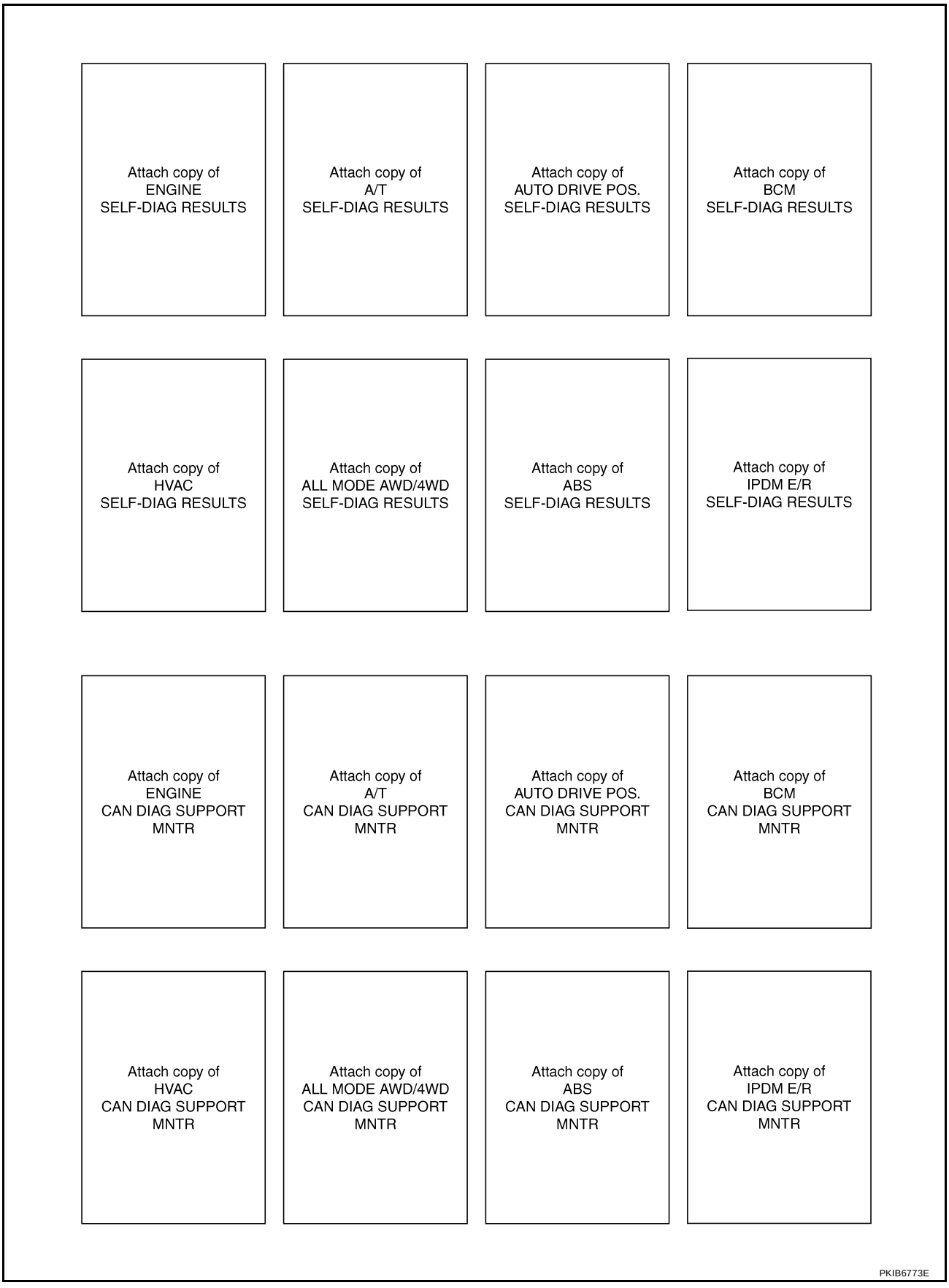
Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.			
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	–
CAN CIRC 2	BCM	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	–
CAN CIRC 4	HVAC	CAN CIRC 9	–

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

PKIC3466E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS
Attach copy of
ABS
SELF-DIAG RESULTS
Attach copy of
IPDM E/R
SELF-DIAG RESULTS
Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
CAN DIAG SUPPORT
MNTR
Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB6773E

CHECK SHEET RESULTS (EXAMPLE)

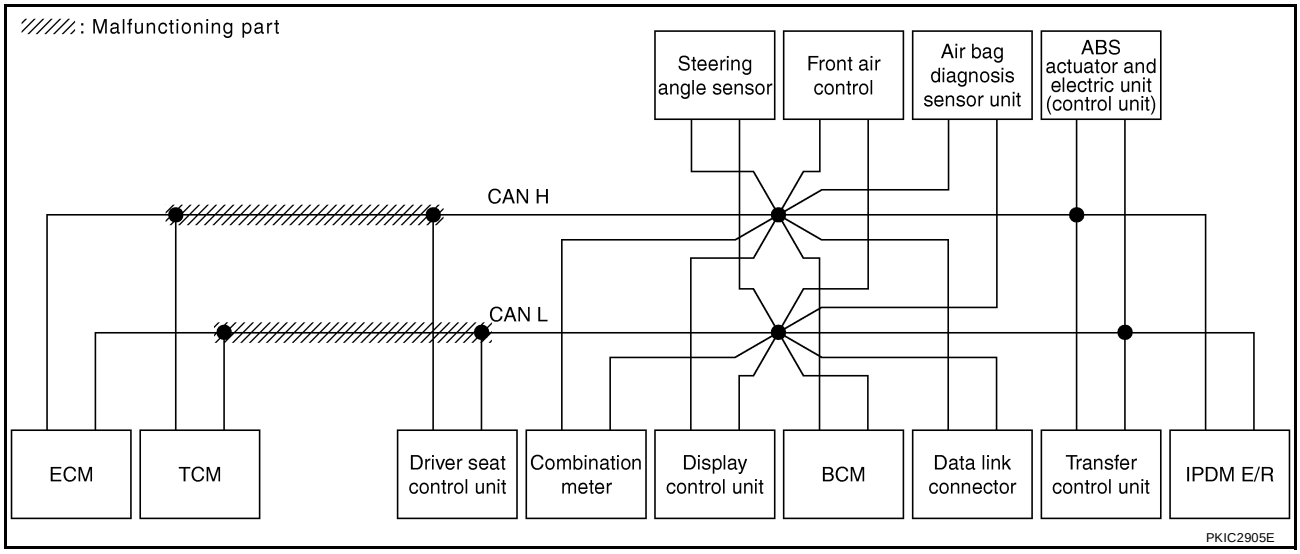
NOTE:
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and driver seat control unit. Refer to LAN-141, "Inspection Between TCM and Driver Seat Control Unit Circuit" .

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

PKIC3499E

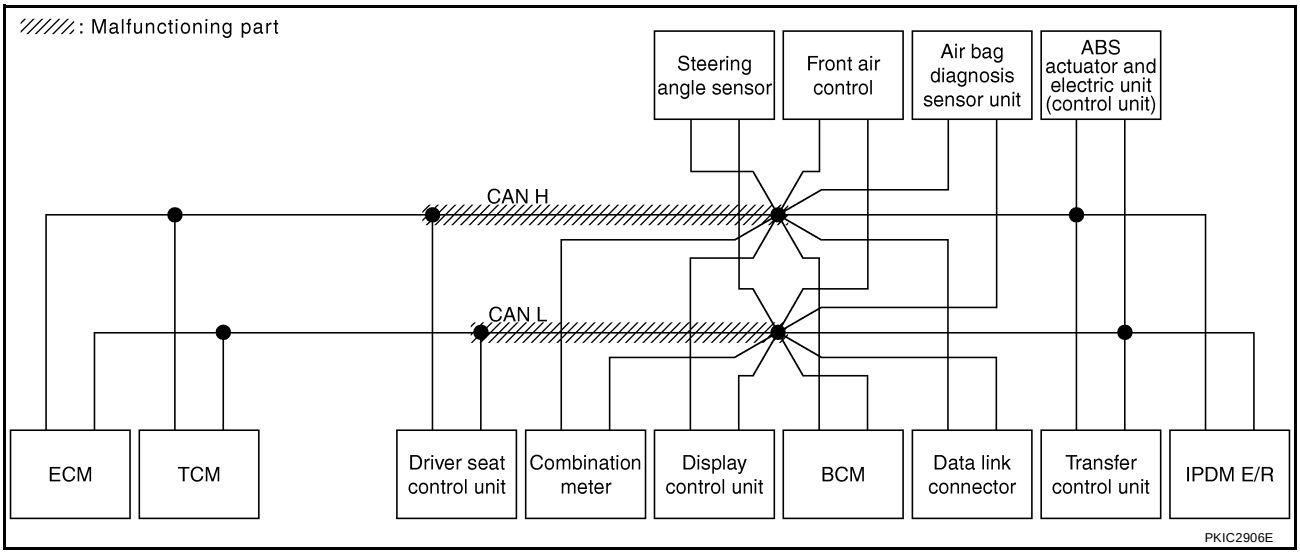


Case 2

Check harness between driver seat control unit and data link connector. Refer to LAN-143, "Inspection Between Driver Seat Control Unit and Data Link Connector Circuit" .

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

PKIC3500E

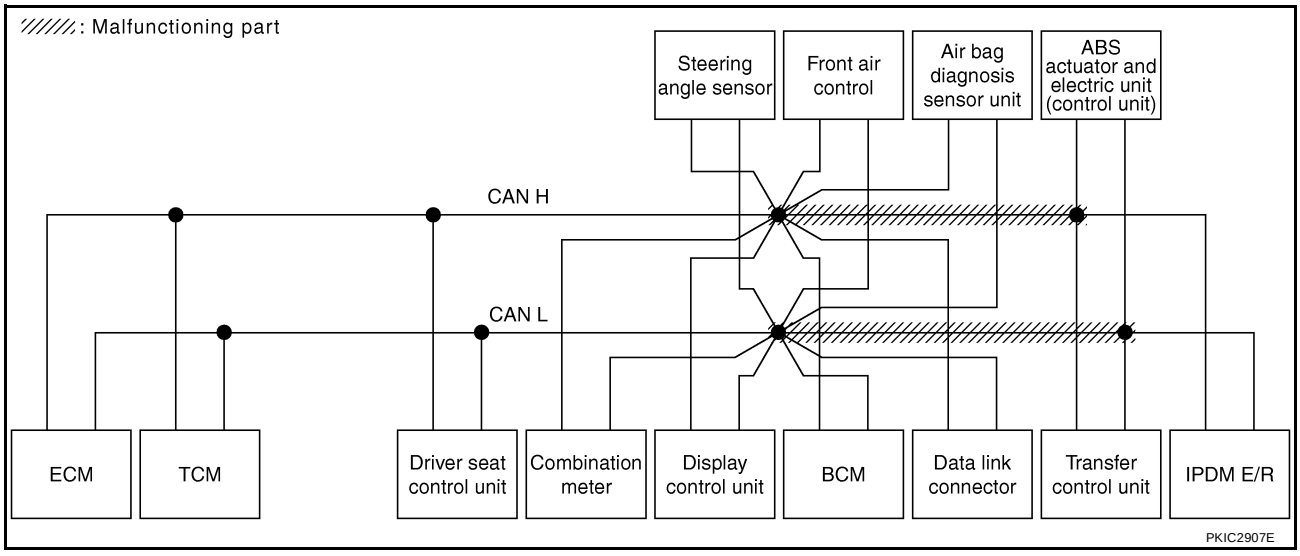


Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-144, "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	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	–	–	UNKWN	–	UNKWN	UNKWN	–	UNKWN	–	–	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	–	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	UNKWN	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
AUTO DRIVE POS.	No indication	–	–	–	UNKWN	UNKWN	–	UNKWN	–	–	–	–	–	CAN COMM CIRCUIT (U1000)	–
Display control unit	–	NG	UNKWN	UNKWN	–	UNKWN	–	UNKWN	–	UNKWN	–	–	UNKWN	–	–
BCM	No indication	NG	UNKWN	UNKWN	–	UNKWN	–	–	–	–	–	–	UNKWN	CAN COMM CIRCUIT (U1000)	–
HVAC	No indication	–	UNKWN	UNKWN	–	–	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–
ALL MODE AWD/4WD	No indication	–	UNKWN	UNKWN	UNKWN	–	–	–	UNKWN	–	–	UNKWN	–	CAN COMM CIRCUIT (U1000)	–
ABS	–	NG	UNKWN	UNKWN	UNKWN	–	–	–	UNKWN	–	UNKWN	–	–	CAN COMM CIRCUIT (U1000)	–
IPDM E/R	No indication	–	UNKWN	UNKWN	–	–	–	UNKWN	–	–	–	–	–	CAN COMM CIRCUIT (U1000)	–

PKIC3501E

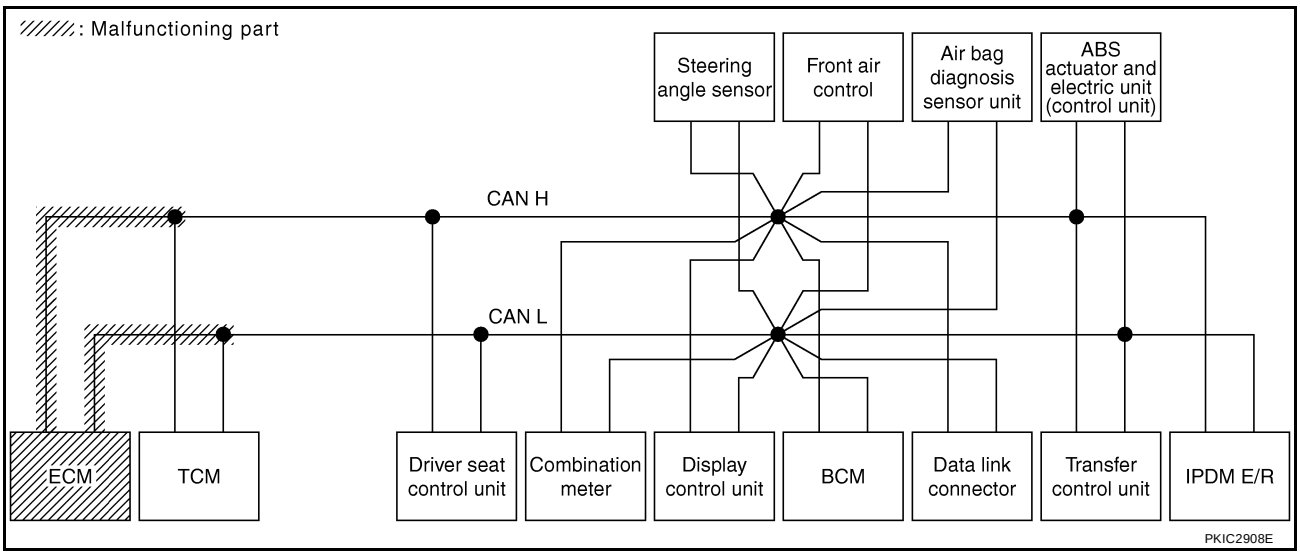


Case 4

Check ECM circuit. Refer to LAN-145, "ECM Circuit Inspection" .

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

PKIC3502E

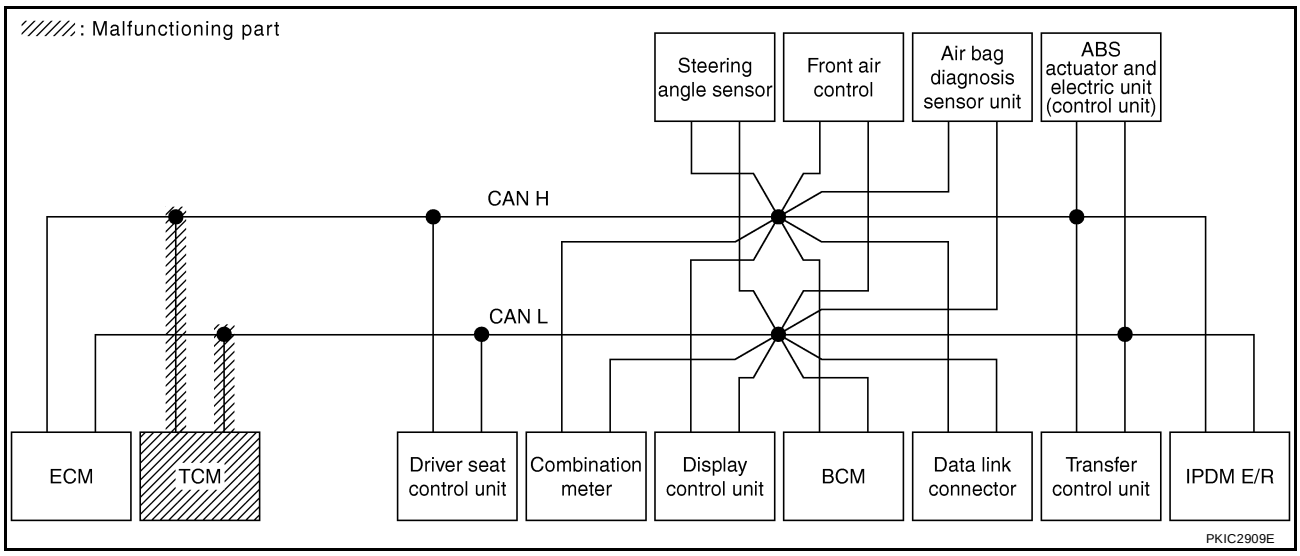


Case 5

Check TCM circuit. Refer to LAN-146, "TCM Circuit Inspection" .

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

PKIC3503E

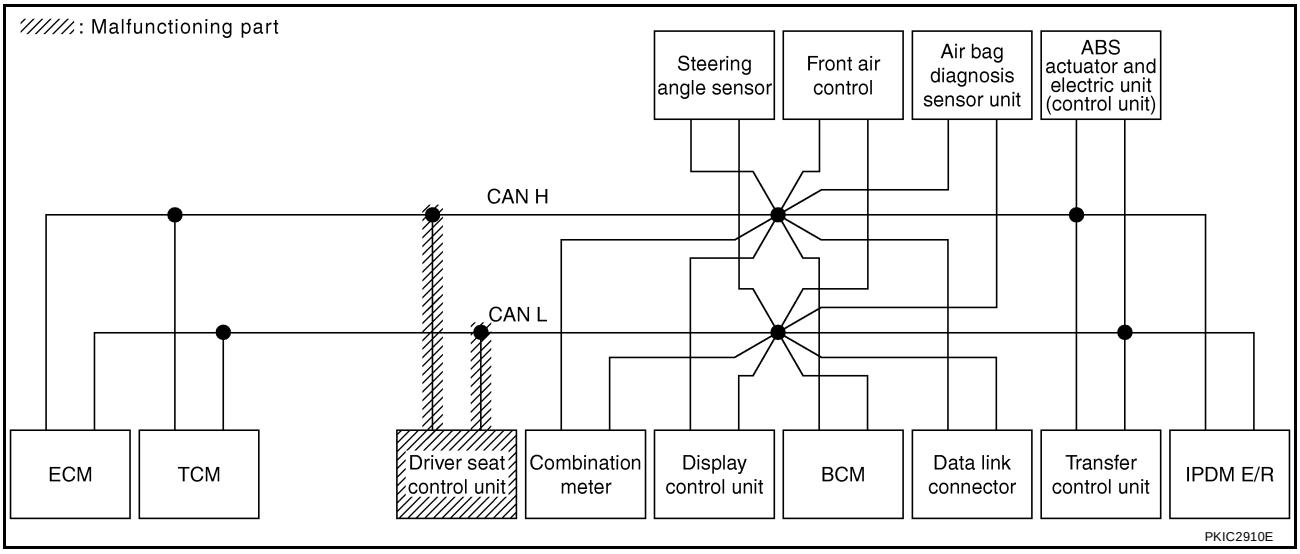


Case 6

Check driver seat control unit circuit. Refer to LAN-146, "Driver Seat Control Unit Circuit Inspection" .

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

PKIC3504E

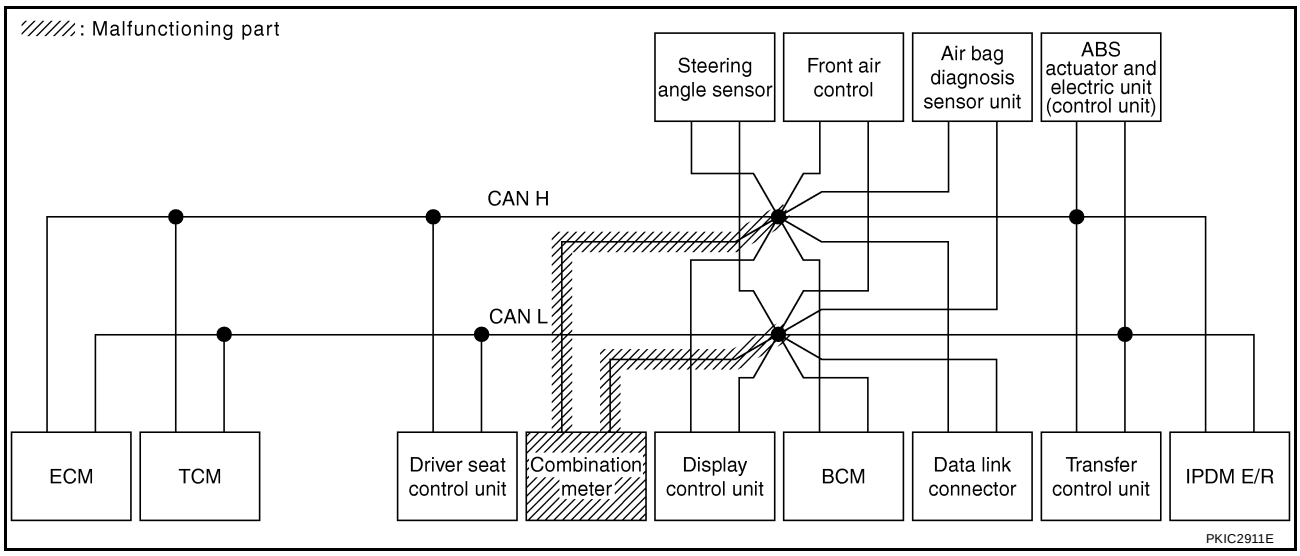


Case 7

Check combination meter circuit. Refer to LAN-147, "Combination Meter Circuit Inspection" .

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

PKIC3505E

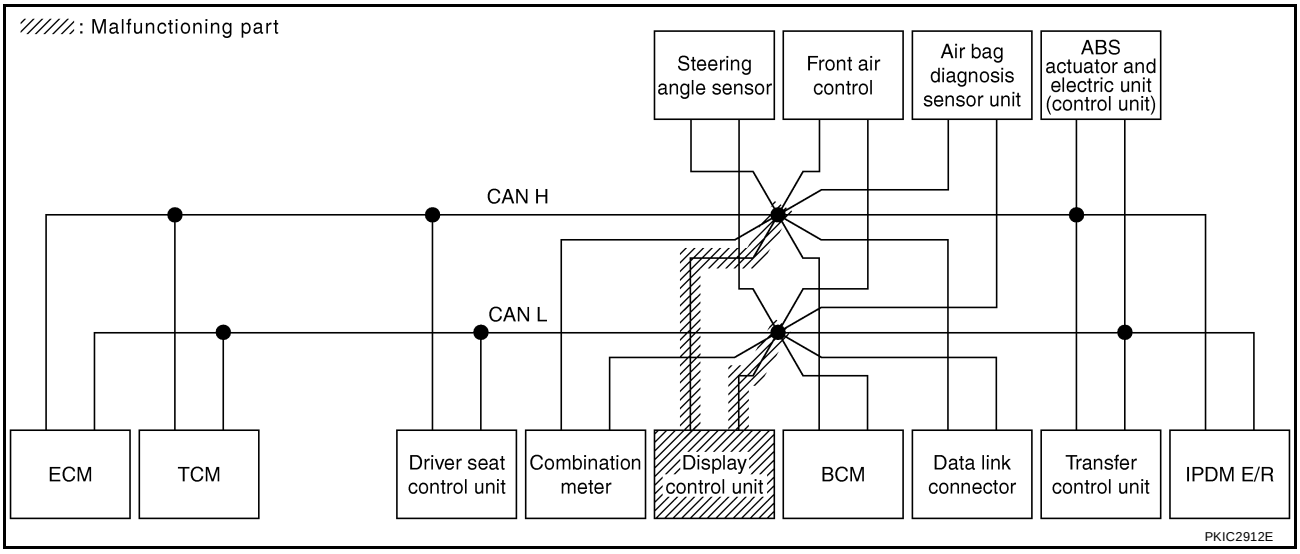


Case 8

Check display control unit circuit. Refer to LAN-147, "Display Control Unit Circuit Inspection" .

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

PKIC3506E

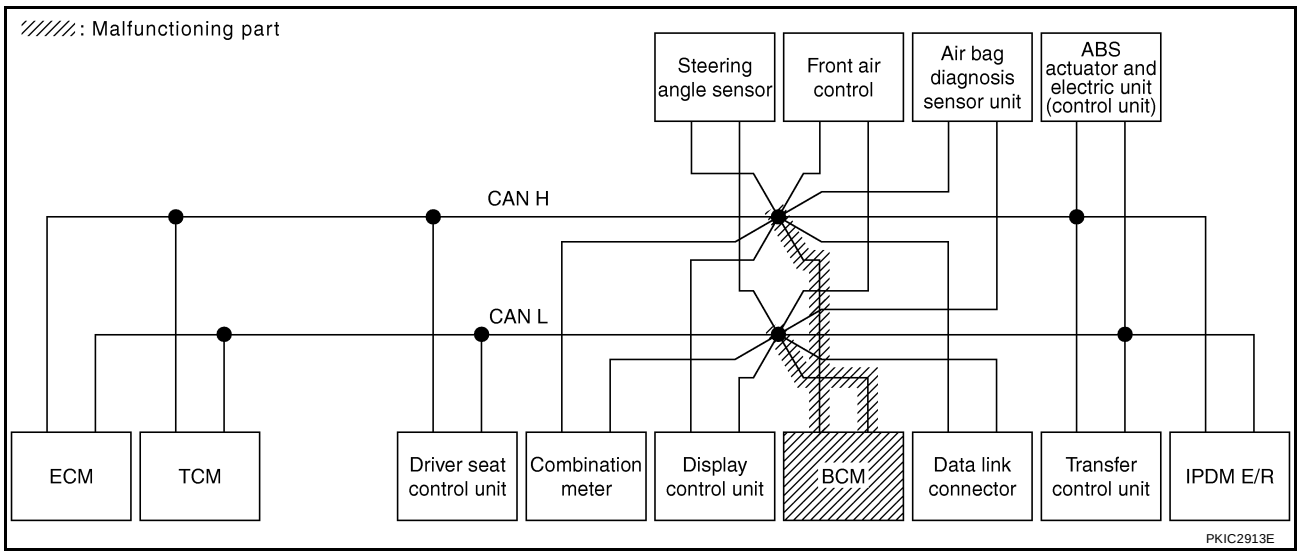


Case 9

Check BCM circuit. Refer to LAN-148, "BCM Circuit Inspection" .

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

PKIC3507E

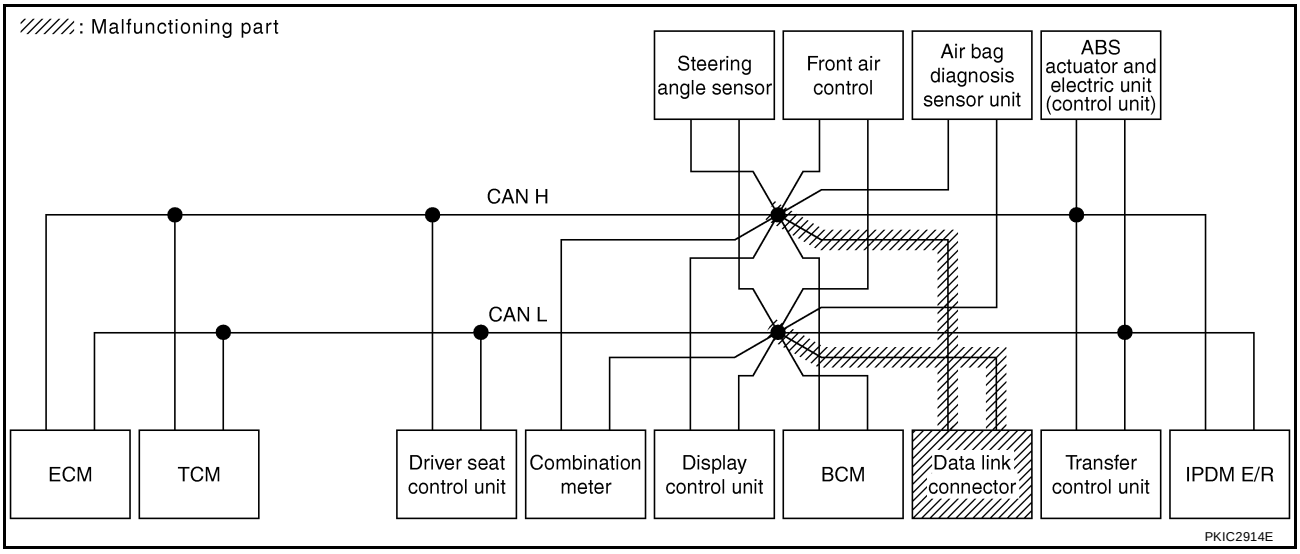


Case 10

Check data link connector circuit. Refer to LAN-148, "Data Link Connector Circuit Inspection" .

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

PKIC3508E

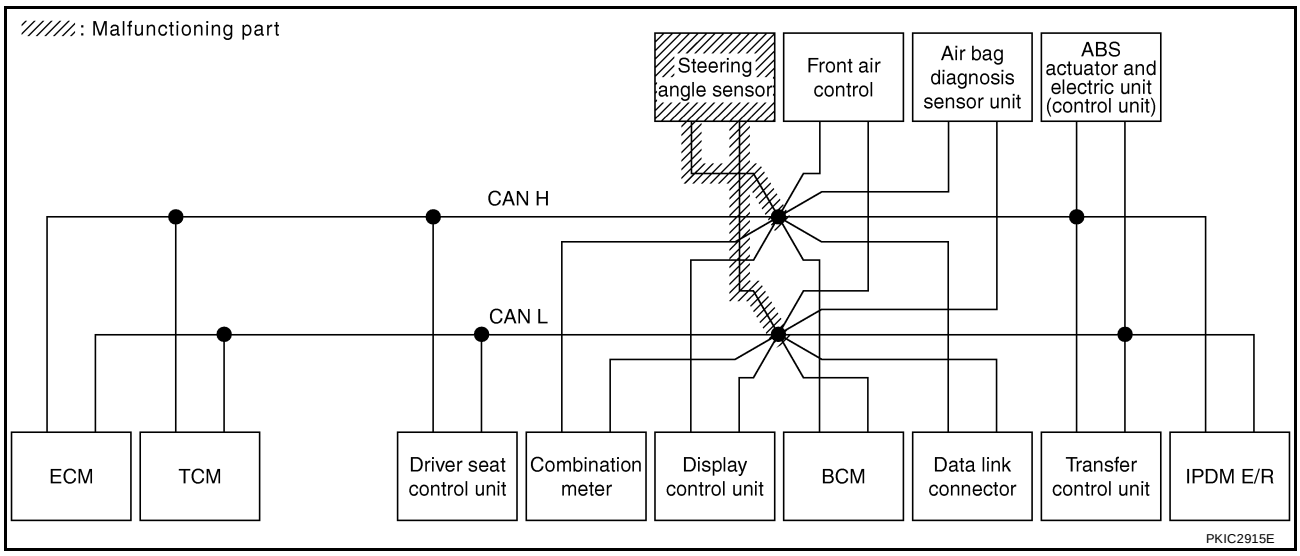


Case 11

Check steering angle sensor circuit. Refer to LAN-149, "Steering Angle Sensor Circuit Inspection" .

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

PKIC3509E

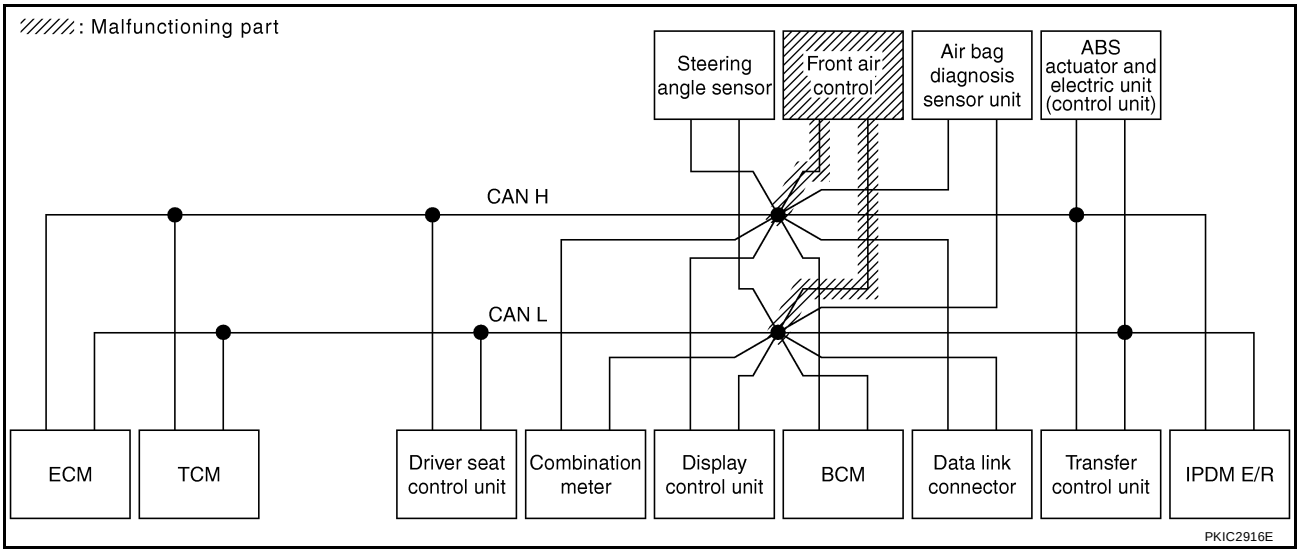


Case 12

Check front air control circuit. Refer to LAN-149, "Front Air Control Circuit Inspection" .

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

PKIC3510E

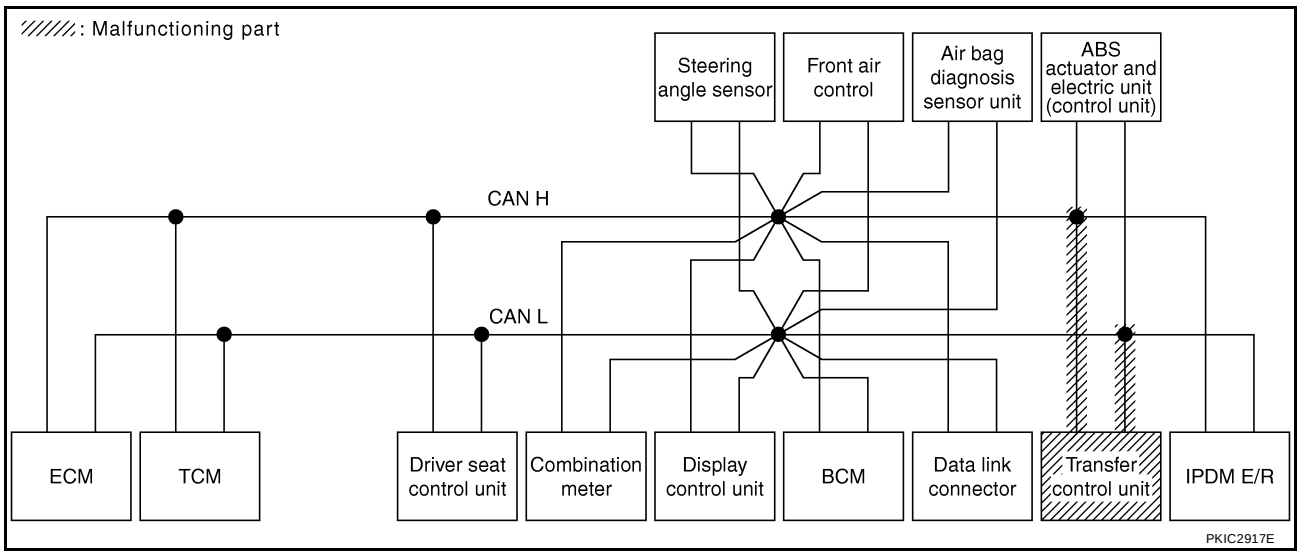


Case 13

Check transfer control unit circuit. Refer to LAN-150, "Transfer Control Unit Circuit Inspection" .

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

PKIC3511E



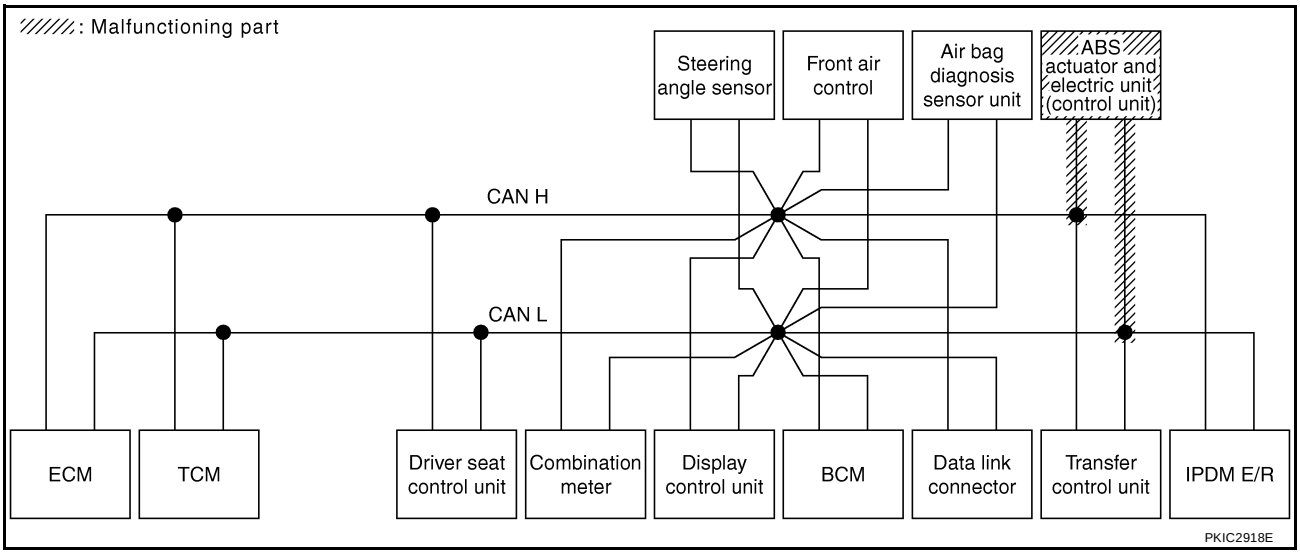
PKIC2917E

Case 14

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-151, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

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

PKIC3512E

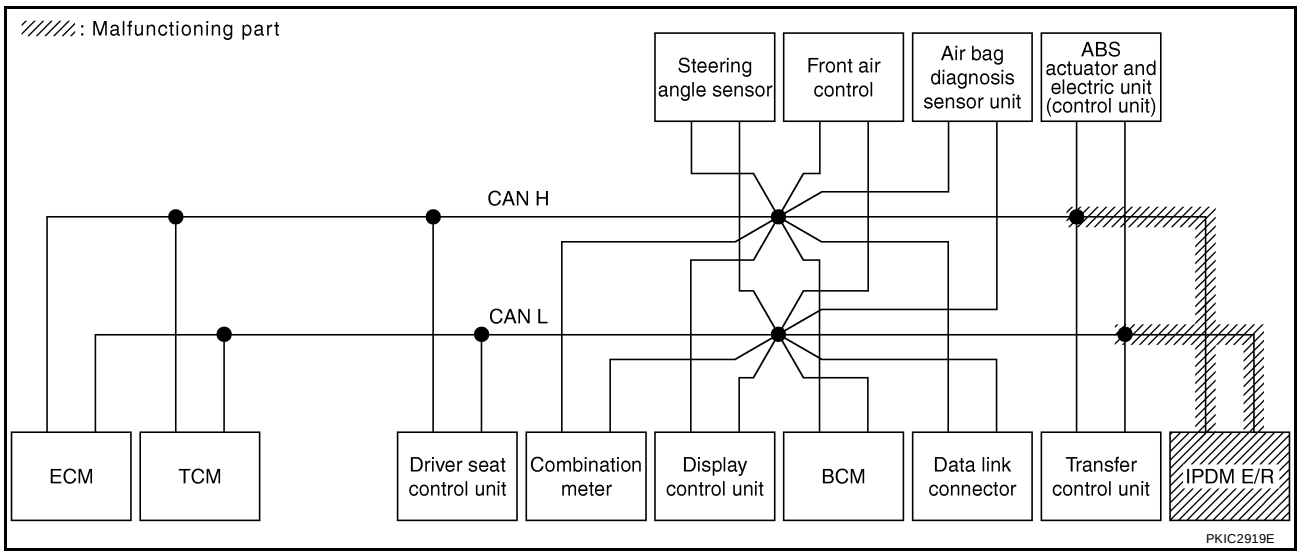


Case 15

Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection" .

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

PKIC3513E



PKIC2919E

Case 16

Check CAN communication circuit. Refer to LAN-152, "CAN Communication Circuit Inspection" .

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

PKIC3514E

Case 17

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3515E

Case 18

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-153, "IPDM E/R Ignition Relay Circuit Inspection" .

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

PKIC3516E

TROUBLE DIAGNOSIS FOR SYSTEM

PFP:00000

Inspection Between TCM and Driver Seat Control Unit Circuit

UKS004RG

1. CHECK CONNECTOR

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

- Harness connector F14
- Harness connector E5
- Harness connector E34
- Harness connector B40

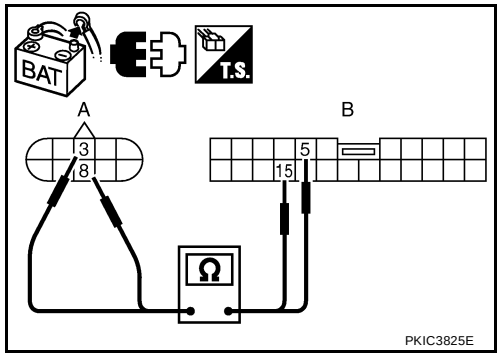
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



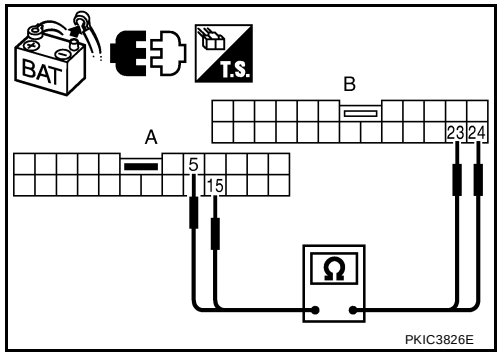
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

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

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



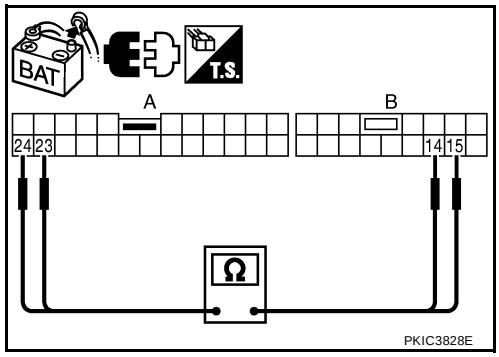
OK or NG

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

4. CHECK HARNESS FOR OPEN CIRCUIT

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B40	24	B37	15	Yes
	23		14	Yes



OK or NG

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

Inspection Between TCM and Data Link Connector Circuit

UKS004RH

1. CHECK CONNECTOR

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

- Harness connector F14
- Harness connector E5
- Harness connector E34
- Harness connector B40
- Harness connector B69
- Harness connector M40

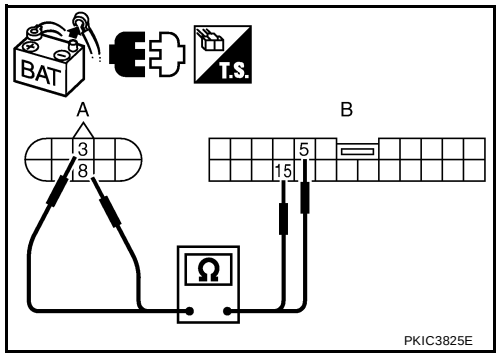
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



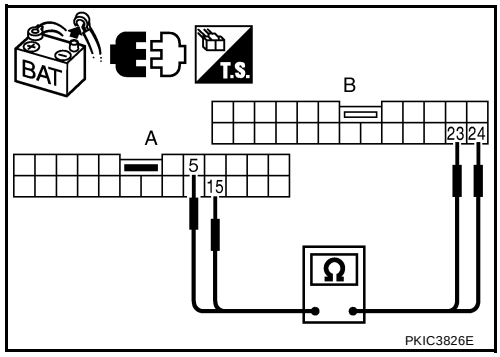
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

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

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



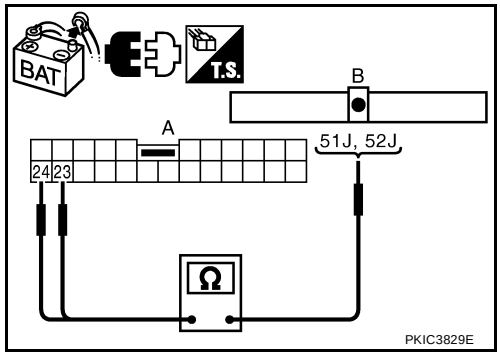
OK or NG

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

4. CHECK HARNESS FOR OPEN CIRCUIT

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B40	24	B69	51J	Yes
	23		52J	Yes



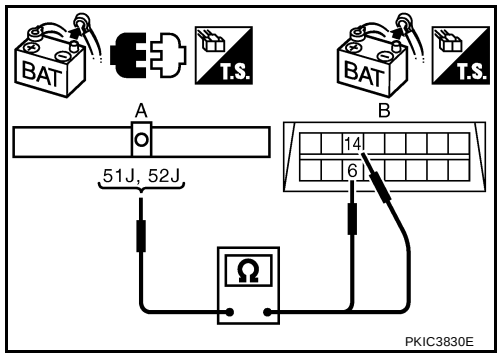
OK or NG

OK >> GO TO 5.
NG >> Repair harness.

5. CHECK HARNESS FOR OPEN CIRCUIT

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M40	51J	M22	6	Yes
	52J		14	Yes



OK or NG

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

Inspection Between Driver Seat Control Unit and Data Link Connector Circuit

UKS004RK

1. CHECK CONNECTOR

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

- Harness connector B69
- Harness connector M40

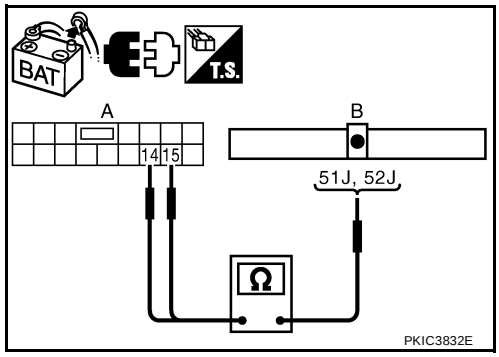
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



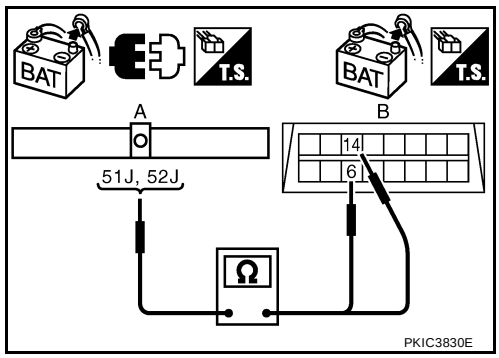
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M40	51J	M22	6	Yes
	52J		14	Yes



OK or NG

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

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

UKS004RL

1. CHECK CONNECTOR

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

- Harness connector M31
- Harness connector E152

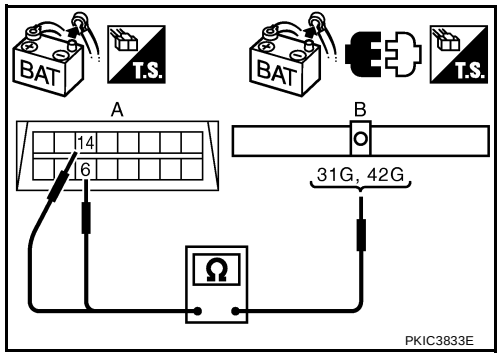
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



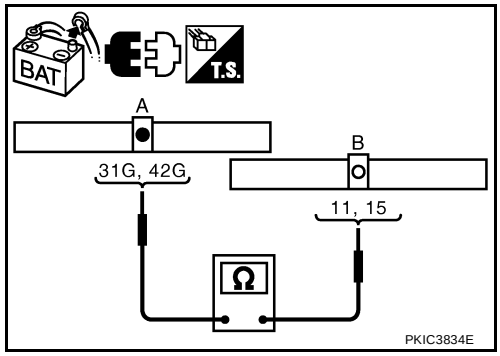
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
E152	31G	E125	11	Yes
	42G		15	Yes



OK or NG

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

ECM Circuit Inspection

UKS004RM

1. CHECK CONNECTOR

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

- ECM connector
- Harness connector E5
- Harness connector F14

OK or NG

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

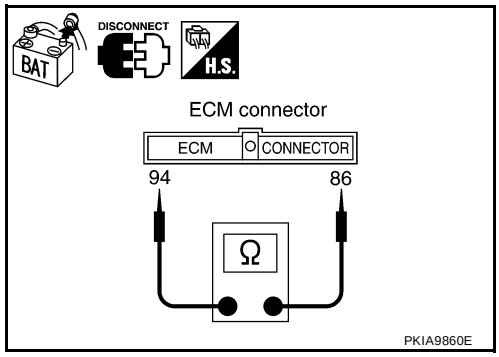
2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

OK or NG

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



TCM Circuit Inspection

UKS004RN

1. CHECK CONNECTOR

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

OK or NG

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

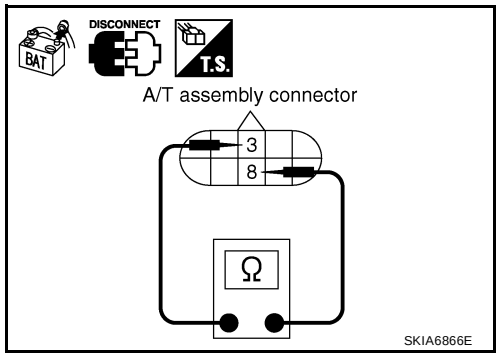
2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

OK or NG

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



Driver Seat Control Unit Circuit Inspection

UKS004RP

1. CHECK CONNECTOR

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

- Driver seat control unit connector
- Harness connector P1
- Harness connector B37

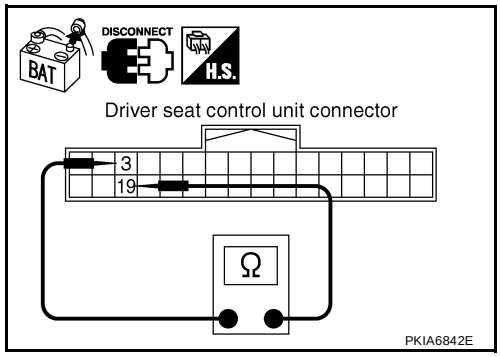
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

Driver seat control unit connector	Terminal		Resistance (Approx.)
P2	3	19	54 – 66 Ω



OK or NG

OK >> Replace driver seat control unit.
NG >> Repair harness between driver seat control unit and harness connector B69.

Combination Meter Circuit Inspection

UKS004RQ

1. CHECK CONNECTOR

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

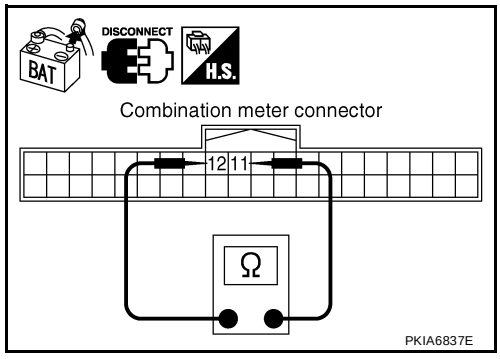
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



OK or NG

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

Display Control Unit Circuit Inspection

UKS004RR

1. CHECK CONNECTOR

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

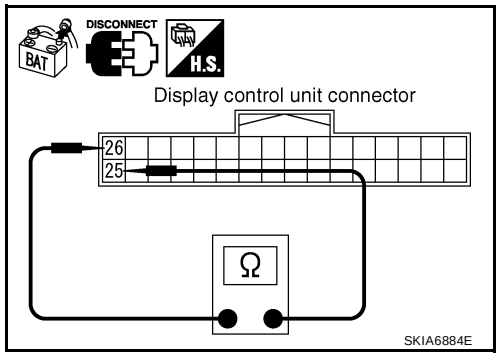
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



OK or NG

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

BCM Circuit Inspection

UKS004RS

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).

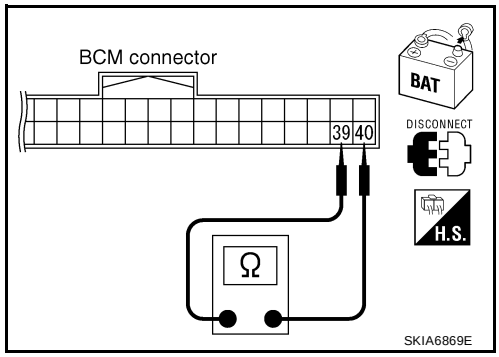
OK or NG

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.)
M18	39	40	54 – 66 Ω



OK or NG

OK >> Replace BCM. Refer to BCS-20, "Removal and Installation" .
NG >> Repair harness between BCM and data link connector.

Data Link Connector Circuit Inspection

UKS004RT

1. CHECK CONNECTOR

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

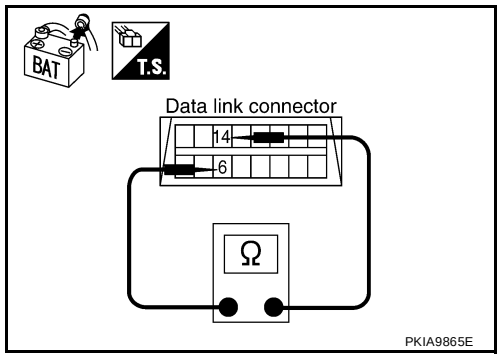
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M22	6	14	54 – 66 Ω



OK or NG

OK >> Diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .

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

Steering Angle Sensor Circuit Inspection

UKS004RU

1. CHECK CONNECTOR

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

OK or NG

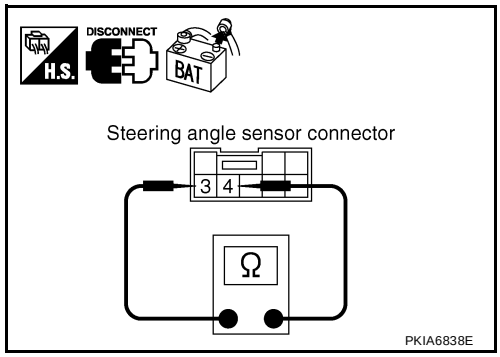
OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



OK or NG

OK >> Replace steering angle sensor.

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

Front Air Control Circuit Inspection

UKS004RV

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

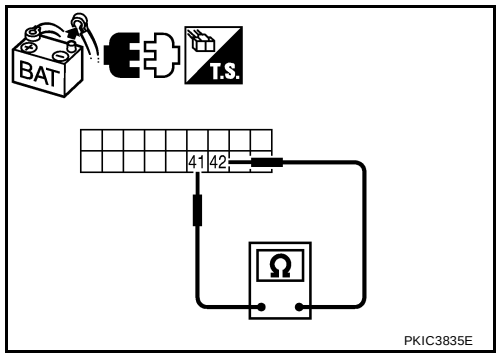
NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

Front air control with display

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

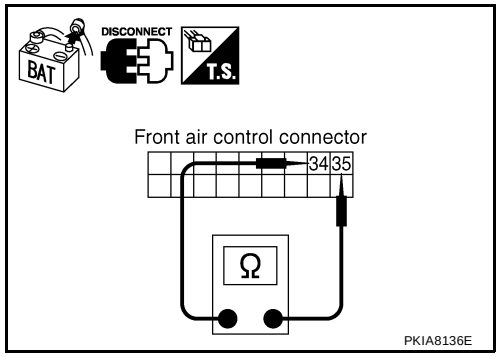
Front air control connector	Terminal		Resistance (Approx.)
M50	41	42	54 – 66 Ω



Front air control without display

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

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



OK or NG

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

Transfer Control Unit Circuit Inspection

UKS004RW

1. CHECK CONNECTOR

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

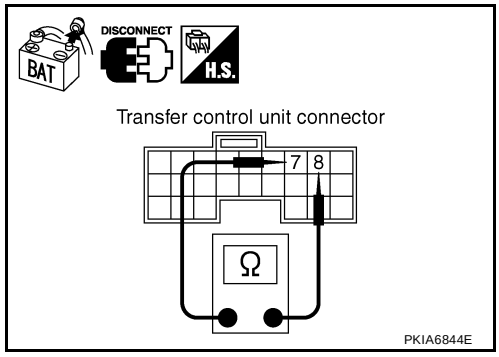
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



OK or NG

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

ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

UKS004RX

1. CHECK CONNECTOR

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

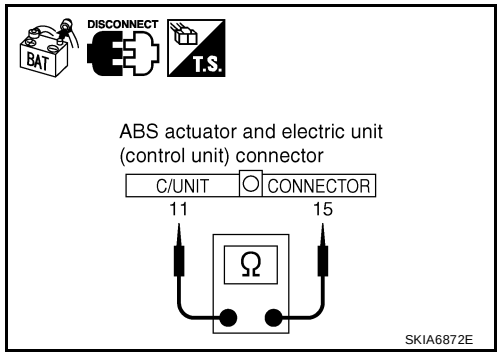
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (Approx.)
E125	11	15	54 – 66 Ω



OK or NG

OK >> Replace ABS actuator and electric unit (control unit).
NG >> Repair harness between ABS actuator and electric unit (control unit) and harness connector E152.

IPDM E/R Circuit Inspection

UKS004RY

1. CHECK CONNECTOR

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

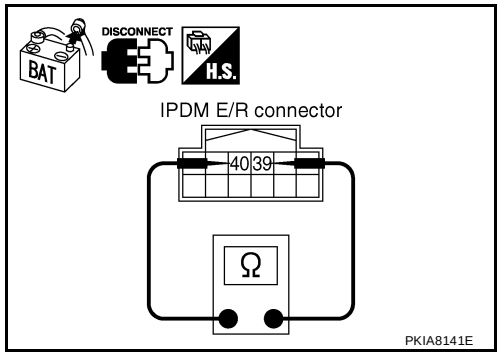
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



OK or NG

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

CAN Communication Circuit Inspection

UKS004RZ

1. CHECK CONNECTOR

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

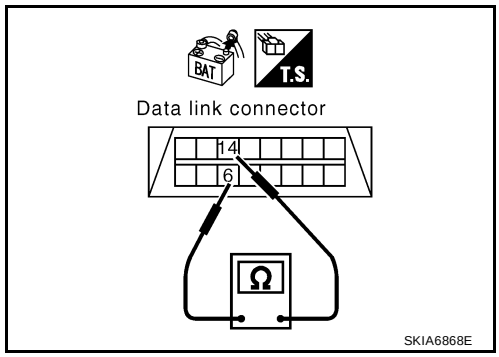
OK or NG

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

2. CHECK HARNESS FOR SHORT CIRCUIT

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

Data link connector	Terminal		Continuity
M22	6	14	No



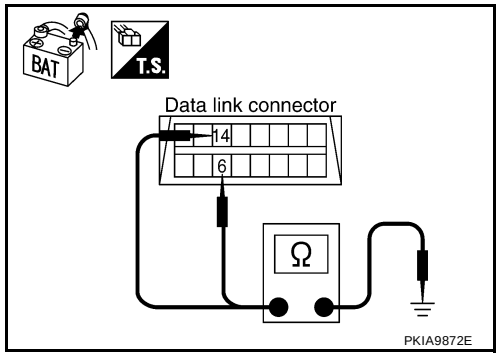
OK or NG

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

3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

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



OK or NG

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

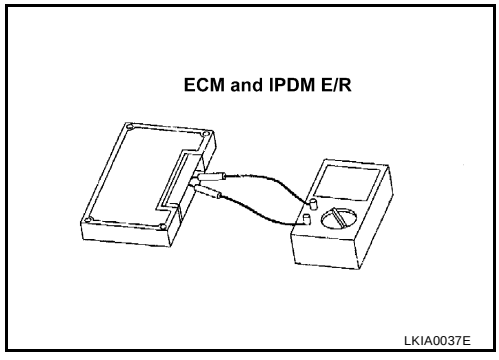
4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

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

3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
39	40	108 – 132 Ω



OK or NG

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

5. CHECK SYMPTOM

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

OK or NG

OK >> GO TO 6.
NG >> Refer to LAN-14, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced" .

6. UNIT REPRODUCIBILITY INSPECTION

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

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

Inspection results

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

IPDM E/R Ignition Relay Circuit Inspection

UKS004S0

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

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