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CONTENTS

CAN	MNTR" SCREEN FOR TRANSFER CONTROL	00	F
PRECAUTIONS 3	UNIT DESCRIPTION OF "CAN DIAG SUPPORT	22	
Precautions for Supplemental Restraint System	MNTR" SCREEN FOR ABS ACTUATOR AND		
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	ELECTRIC UNIT (CONTROL UNIT)	22	G
SIONER"	DESCRIPTION OF "CAN DIAG SUPPORT	23	
Precautions When Using CONSULT-II 3	MNTR" SCREEN FOR IPDM E/R	24	
CHECK POINTS FOR USING CONSULT-II 3	DESCRIPTION OF "CAN DIAG SUPPORT	24	Н
Precautions For Trouble Diagnosis 3	MNTR" SCREEN FOR DISPLAY CONTROL		
CAN SYSTEM 3	UNIT	25	
Precautions For Harness Repair4	CAN COMMUNICATION		ı
CAN SYSTEM 4	System Description		
TROUBLE DIAGNOSES WORK FLOW5	Component Parts and Harness Connector Location.		
When Displaying CAN Communication System	Schematic		J
Errors5	Wiring Diagram — CAN —		J
WHEN A MALFUNCTION IS DETECTED BY	CAN Communication Unit		
CAN COMMUNICATION SYSTEM 5	TYPE1/TYPE2		
WHEN A MALFUNCTION IS DETECTED	TYPE 3/TYPE4		LAN
EXCEPT CAN COMMUNICATION SYSTEM 5	CAN SYSTEM (TYPE 1)		
TROUBLE DIAGNOSIS FLOW CHART6	Component Parts and Harness Connector Location		
Diagnosis Procedure7	Schematic		L
SELECTING CAN SYSTEM TYPE (HOW TO	Wiring Diagram — CAN —		
USE SPECIFICATION TABLE) 7	Check Sheet		
ACQUISITION OF DATA BY CONSULT-II 8	CHECK SHEET RESULTS (EXAMPLE)		M
HOW TO USE CHECK SHEET TABLE9	CAN SYSTEM (TYPE 2)		IVI
CAN Diagnostic Support Monitor 16	Component Parts and Harness Connector Location		
DESCRIPTION OF "CAN DIAG SUPPORT	Schematic		
MNTR" SCREEN FOR ECM16	Wiring Diagram — CAN —		
DESCRIPTION OF "CAN DIAG SUPPORT	Check Sheet		
MNTR" SCREEN FOR TCM17	CHECK SHEET RESULTS (EXAMPLE)		
DESCRIPTION OF "CAN DIAG SUPPORT	CAN SYSTEM (TYPE 3)		
MNTR" SCREEN FOR ICC UNIT18	Component Parts and Harness Connector Location		
DESCRIPTION OF "CAN DIAG SUPPORT	Schematic		
MNTR" SCREEN FOR DRIVER SEAT CON-	Wiring Diagram — CAN —		
TROL UNIT19	Check Sheet	80	
DESCRIPTION OF "CAN DIAG SUPPORT	CHECK SHEET RESULTS (EXAMPLE)		
MNTR" SCREEN FOR BCM20	CAN SYSTEM (TYPE 4)		
DESCRIPTION OF "CAN DIAG SUPPORT	Component Parts and Harness Connector Location		
MNTR" SCREEN FOR FRONT AIR CONTROL 21	Schamatic	۵R	

DESCRIPTION OF "CAN DIAG SUPPORT

TCM Circuit Inspection129
ICC Sensor Circuit Inspection129
ICC Unit Circuit Inspection130
Driver Seat Control Unit Circuit Inspection130
Combination Meter Circuit Inspection131
Display Control Unit Circuit Inspection131
BCM Circuit Inspection132
Data Link Connector Circuit Inspection132
Steering Angle Sensor Circuit Inspection133
Front Air Control Circuit Inspection133
Transfer Control Unit Circuit Inspection134
ABS Actuator and Electric Unit (Control Unit) Circuit
Inspection134
IPDM E/R Circuit Inspection135
CAN Communication Circuit Inspection135
IPDM E/R Ignition Relay Circuit Inspection137

PRECAUTIONS

[CAN]

PRECAUTIONS PFP:00001

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

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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 Man-

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

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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

- 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.
- Malfunctions may be detected in self-diagnosis depending on control units carrying out CAN communication. Therefore, erase the self-diagnosis results.
- 5. Diagnose CAN communication system. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW".

Precautions For Trouble Diagnosis CAN SYSTEM

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

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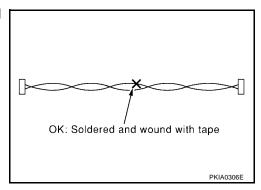
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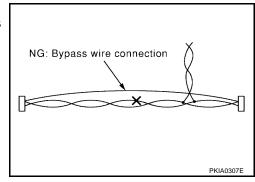
Precautions For Harness Repair CAN SYSTEM

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• 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.)



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TROUBLE DIAGNOSES WORK FLOW

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When Displaying CAN Communication System Errors WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

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

WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

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

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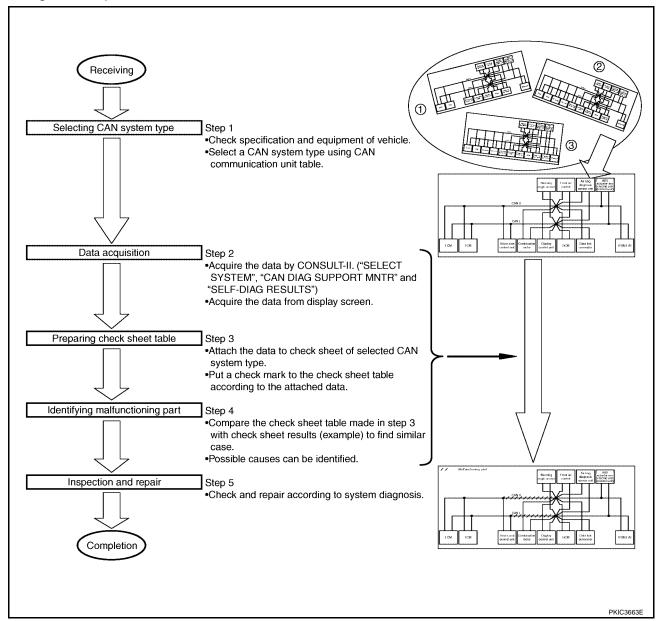
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TROUBLE DIAGNOSIS FLOW CHART

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



- Step 1: Refer to LAN-7, "SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)".
- Step 2: Refer to <u>LAN-8</u>, "ACQUISITION OF DATA BY CONSULT-II".
- Step 3: Refer to LAN-9, "HOW TO USE CHECK SHEET TABLE".
- Step 4: Refer to <u>LAN-10</u>, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- Step 5: Refer to <u>LAN-123</u>, "TROUBLE <u>DIAGNOSIS FOR SYSTEM"</u>.

[CAN]

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

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

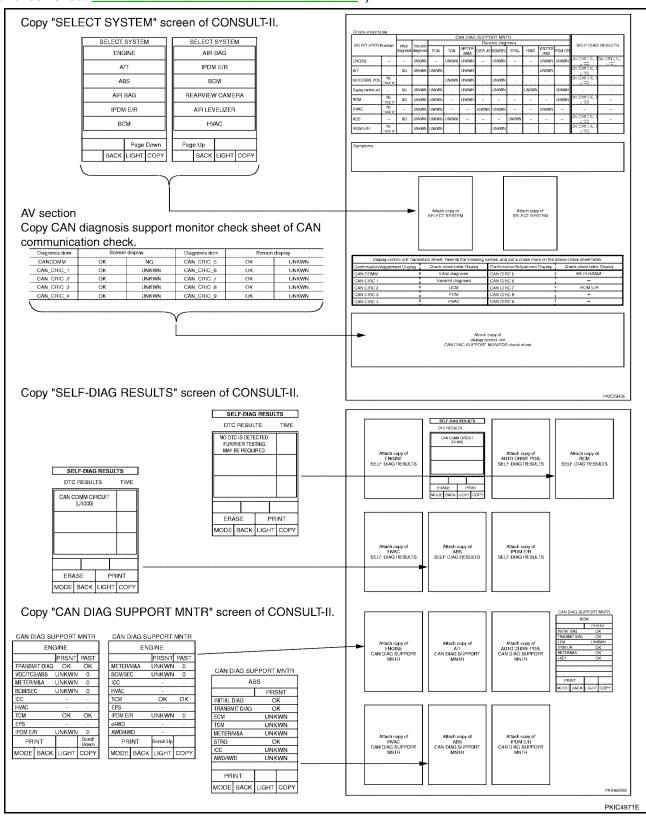
vehicle. In the case of this example:	Body type		Wa	agon		·)
Transmission Brake control ICC system CAN system type CAN system trouble diagnosis X Applicable Select "x" if it is model with ICC system. Which number is selected when sequentially selecting from the top of the specification table? The number is "CAN system type" of the applicable vehicle. In the case of this example:	Axle	21	N D	4\	N D	
Brake control ICC system X X CAN system type 1 2 3 4 CAN system trouble diagnosis X: Applicable Select "x" if it is model with ICC 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:	Engine		VK	6DE		Check basic specification of the vehicle.
Select "x" if it is model with ICC system. CAN system type 1 2 3 4 CAN system trouble diagnosis XXXX XXXX XXXX XXXX XXXX XXXX XXXX	Transmission		A	√ T		
CAN system type 1 2 3 4 CAN system trouble diagnosis CAN system type of the applicable vehicle. In the case of this example:	Brake control		٧	DC		·)
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:	CC system		×		×	Select "x" if it is model with ICC system.
CAN system trouble diagnosis XXXX XXXX XXXX XXXX XXXX XXXX XXXX	CAN system type	1	2	3	4	Which number is selected when sequentially selection
ApplicableThe number is "CAN system type" of the applicable vehicle.In the case of this example:	CAN system trouble diagnosis	XX:XX	XX:XX	2.8:2.8.	XX:XX.	
·	: Applicable					The number is "CAN system type" of the applicable
It corresponds to type 1.						In the case of this example: It corresponds to type 1.

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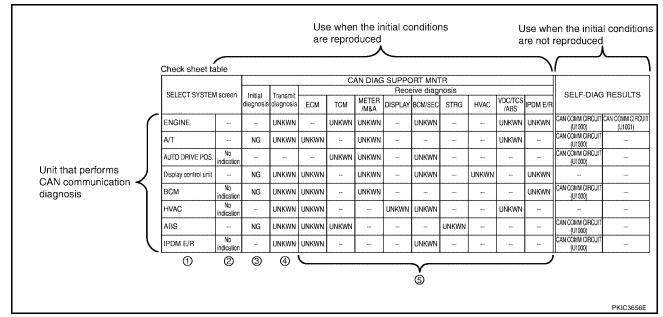
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ACQUISITION OF DATA BY CONSULT-II

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-140, "CAN Communication Line Check".)



HOW TO USE CHECK SHEET TABLE



- Unit names displayed on CONSULT-II 1.
- "No indication": Put a check mark to it if the unit name described in step 1 is not displayed on "SELECT" 2. SYSTEM" screen of CONSULT-II. (Unit communicating with CONSULT-II via CAN communication line) "—": Column not used (Unit communicating with CONSULT-II excluding CAN communication line)
- "NG": Display "NG" when malfunction is detected in the initial diagnosis of the diagnosed unit. Replace the 3. unit if "NG" is displayed.
 - "-": Column not used (Initial diagnosis is not performed.)
- "UNKWN": Display "UNKWN" when the diagnosed unit does not transmit the data normally. Put a check mark to it if "UNKWN" is displayed on CONSULT-II.
 - "-": Column not used (Transmit diagnosis is not performed.)
- "UNKWN": Display "UNKWN" when the diagnosed unit does not receive the data normally. Put a check mark to it if "UNKWN" is displayed on CONSULT-II.
 - "-": Column not used (It is not necessary for CAN communication trouble diagnosis.)

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

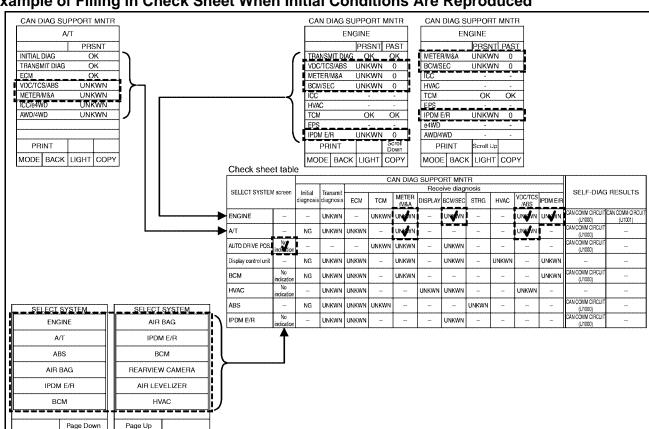
- When the initial conditions are reproduced, refer to LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- When the initial conditions are not reproduced, refer to LAN-14, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced".

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Example of Filling in Check Sheet When Initial Conditions Are Reproduced

 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:

BACK LIGHT COPY

BACK LIGHT COPY

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.

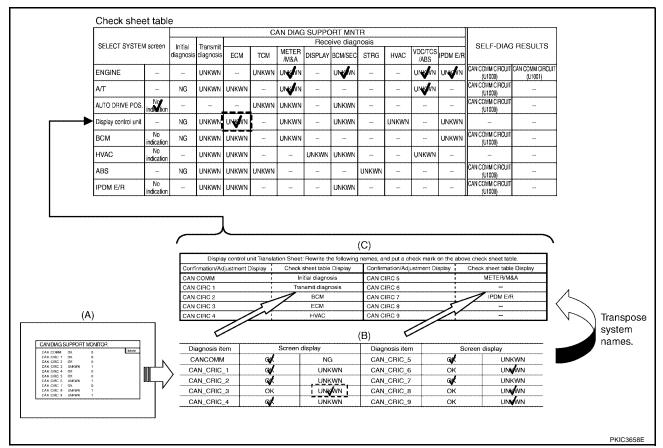
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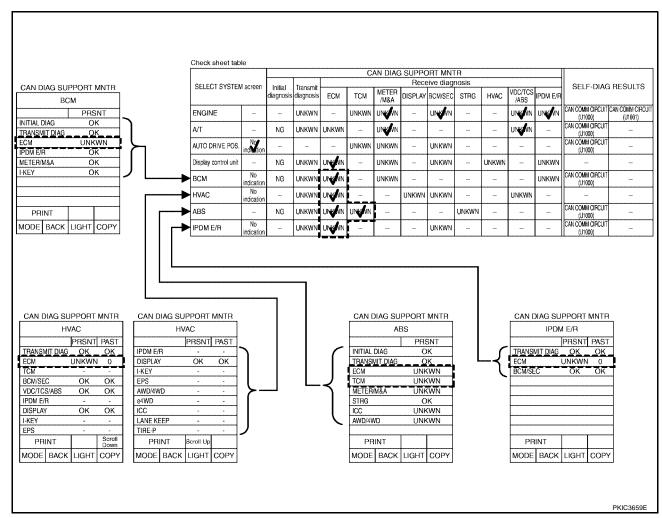


4. Display control unit reads the CAN diagnosis support monitor check sheet (B) AV-140, "CAN Communication Line Check" transferred from the display screen (A). The transferred CAN diagnosis support monitor check sheet is copied to the Check sheet, and conversed according to the Display control unit Translation 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.

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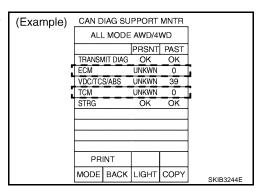
Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen
of "BCM", "HVAC", "ABS" and "IPDM E/R" as well as "ENGINE". And then, put a check mark to the check
sheet table.

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".



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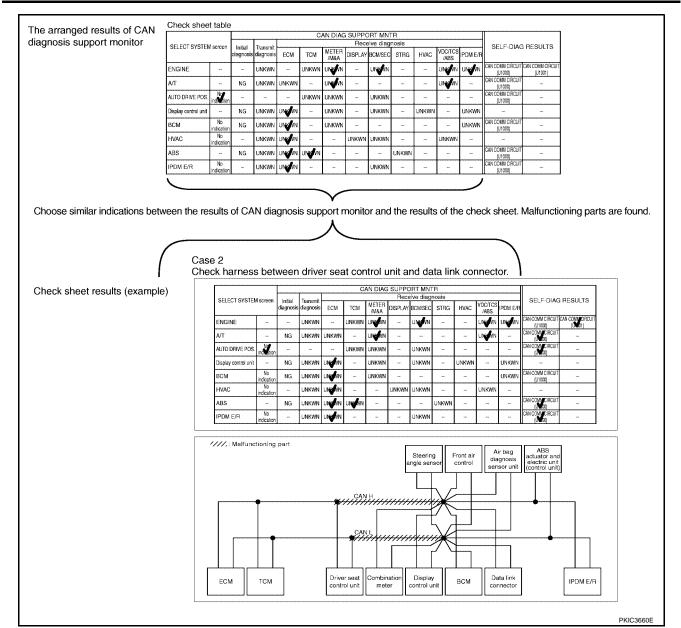
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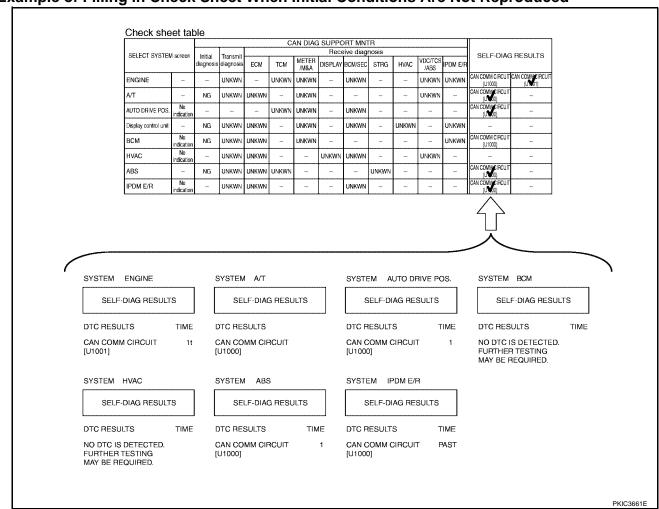
NOTE:

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 <u>LAN-31</u>, "CAN Communication Unit".

Revision: November 2009 LAN-13 2006 QX56



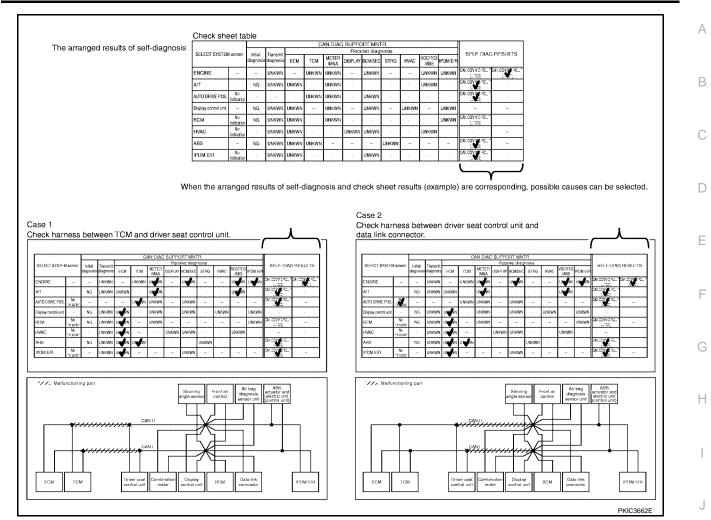
Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced

 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.

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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.

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

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CAN Diagnostic Support Monitor DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ECM

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(Example)	CAN DIAG SUPPORT MNTR CAN DIAG SUPPORT MNTR	
, , ,	ENGINE ENGINE	
	PRSNT PAST PAST	
	TRANSMIT DIAG OK OK METER/M&A OK OK	
	VDC/TCS/ABS OK OK OK BCM/SEC OK OK	
	METER/M&A OK OK ICC	
	BCM/SEC OK OK HVAC	
	ICC TCM OK OK	
	HVAC EPS	
	TCM OK OK IPDM E/R OK OK	
	EPS e4WD	
	IPDM E/R OK OK AWD/4WD OK OK	
	PRINT Scroll Up	
	MODE BACK LIGHT COPY MODE BACK LIGHT COPY	KIC3562E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	
ENGINE	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	Make sure of normal reception from ICC unit.	OK/UNKWN/-	
	HVAC	HVAC is not diagnosed.	_	OK/0/1~39/-
	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

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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TCM

(Example)	CAN D	IAG SU			
. ,		A	/T		
			PRS	SNT	
	INITIAL	DIAG	0	K	
	TRANSM	TRANSMIT DIAG OK			
	ECM OK				
	VDC/TCS	S/ABS	0	K	
	METER/I	M&A	0	K	
	ICC/e4W	D	UNK	WN	
	AWD/4WD OK				
	PRINT				
	MODE	BACK	LIGHT	COPY	SKIB2335E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
TRANSMIT DIAG ECM VDC/TCS/ABS	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	Make sure of normal reception from ICC unit.	OK/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.

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Revision: November 2009 LAN-17 2006 QX56

[CAN]

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ICC UNIT

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR
. ,	ICC	ICC
	PRSNT	PRSNT
	INITIAL DIAG OK	LANE KEEP UNKWN
	TRANSMIT DIAG OK	ECM(I) OK
	ECM OK	ICC SENSOR OK
	VDC/TCS/ABS OK	STRG UNKWN
	TCM OK	METER/M&A(I) OK
	METER/M&A UNKWN	ERROR(I) OK
	LANE KEEP UNKWN	LANE DETECTOR UNKWN
	ECM(I) OK	TCM(I) UNKWN
	ICC SENSOR OK	BCM/SEC OK
	PRINT Scroll Down	PRINT Scroll Up
	MODE BACK LIGHT COPY	MODE BACK LIGHT COPY PKIC3846E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
\ T N	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	TCM	Make sure of normal reception from TCM.	OK/UNKWN
	METER/M&A	METER/M&A is not diagnosed.	UNKWN
	LANE KEEP	LANE KEEP is not diagnosed.	UNKWN
	ECM(I)	ECM(I) is not diagnosed.	OK
.00	ICC SENSOR	Make sure of normal reception from ICC sensor.	OK/UNKWN
	STRG	STRG is not diagnosed.	UNKWN
	METER/M&A(I)	Make sure of normal reception from combination meter (as a laser radar sensor). (Not available for CAN system diagnosis.)	OK/UNKWN
	ERROR(I)	ERROR(I) is not diagnosed.	ОК
	LANE DETECTOR	LANE DETECTOR is not diagnosed.	UNKWN
	TCM(I)	TCM(I) is not diagnosed.	UNKWN
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN

Display Results (Present)

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

[CAN]

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

(Example)	CAND	IAG SU			
	Al	JTO DF	IVE PO	S.	
		PRSNT PAST			
	TRANS	/IIT DIAG	-	-	
	METER/M&A OK OK				
	BCM/SEC OK OK				
	TCM	TCM OK OK			
	PRINT				
	MODE	BACK	LIGHT	COPY	PKIC4864E

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

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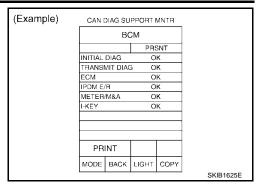
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[CAN]

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR BCM



"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
BCM	ECM	Make sure of normal reception from ECM.	OK/UNKWN
BCIVI	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.

[CAN]

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR FRONT AIR CONTROL

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

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

Display Results (Present)

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

Display Results (Past)

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

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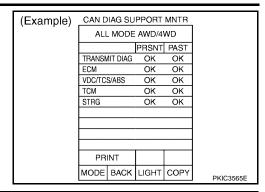
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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TRANSFER CONTROL UNIT



"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past	
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-		
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-		
ALL MODE AWD/ 4WD	VDC/TCS/ABS	VDC/TCS/ABS Make sure of normal reception from ABS actuator and electric unit (control unit).			
	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 DI	AG SU	PPORT	MNTR	1
	ALL.	MODE	AWD/4	WD	
			PRSNT	PAST	
	TRANSMI	T DIAG	OK	OK	
ī	ECM		UNKWN	0	
i :	VDC/TCS/	ABS	UNKWN	39	
	TCM		UNKWN	0	
	STRG		OK	-OK	Ī
	PRIN	IT			
	MODE	BACK	LIGHT	COPY	SKIB3246E

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

(Example)	CAN E	IAG SU			
` ' '		Αl			
	INITIAL	DIAG			
	TRANS	IIT DIAG	С	K	
	ECM		С	K	
	TCM		О	K	
	METER/	M&A	UNF	WN	
	STRG		C	K	
	ICC		C	K	
	AWD/4W	D	C	K	
	PR	INT			
	MODE	BACK	LIGHT COPY		PKIC4722E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	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
ABS	TCM	Make sure of normal reception from TCM.	OK/UNKWN
ADS	METER/M&A	METER/M&A is not diagnosed.	UNKWN
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN
	ICC	Make sure of normal reception from ICC unit.	OK/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.

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Revision: November 2009 LAN-23 2006 QX56

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

(Example)	CAN DIAG S	UPPORT	MNTR	1
	IPD	M E/R		
	TRANSMIT DIAG			
	ECM			
	BCM/SEC	OK		
		_	1	
	PRINT			
	MODE BACK	LIGHT	COPY	SKIB0595E

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

[CAN]

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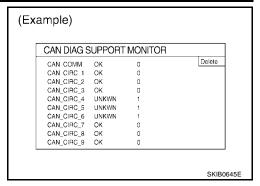
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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DISPLAY CONTROL UNIT



Unit name Diagnosis item Description		Description	"CAN DIAG SUPPORT MONITOR" screen	Error counter (Reference)			
	CAN COMM	Make sure that microcomputer in ECU works normally.	OK/NG				
	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				
Diaplay control unit	CAN CIRC 4	Make sure of normal reception from front air control.	OK/UNKWN	0/1~50			
Display control unit	CAN CIRC 5	Make sure of normal reception from combination meter.	OK/UNKWN	0/1~50			
	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.

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Revision: November 2009 LAN-25 2006 QX56

CAN COMMUNICATION

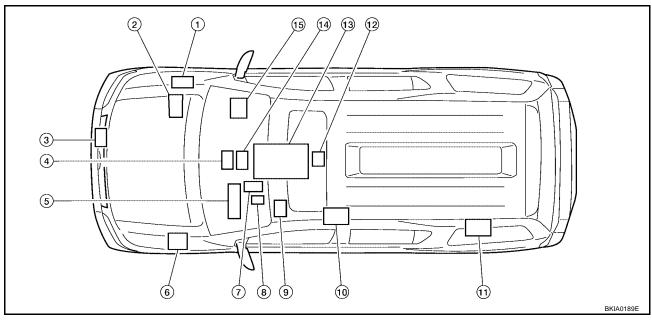
System Description

PFP:23710

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

UKS004R0



- 1. ECM E16
- 4. Display control unit M95
- 7. BCM M18
- 10. Driver seat control unit P2
- 13. A/T assembly F9

- 2. IPDM E/R E122
- 5. Combination meter M24
- 8. Data link connector M22
- 11. ICC unit B13 (with ICC)
- 14. Front air control M50

- 3. ICC sensor E42 (with ICC)
- ABS actuator and electric unit (control unit) E125
- Steering angle sensor M47
- 12. Air bag diagnosis sensor unit M35
- Transfer control unit E142 (with 4– wheel drive)

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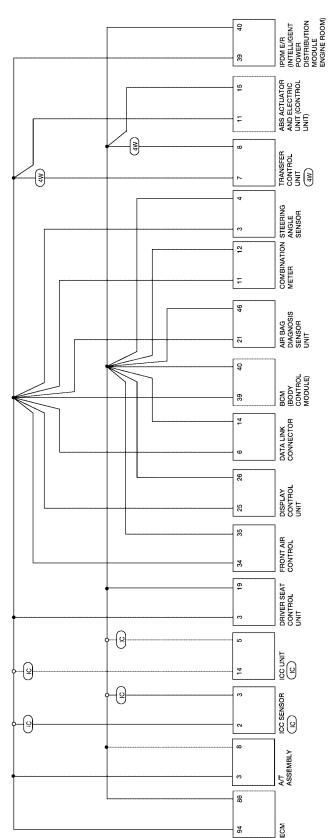
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Schematic UKS004R1



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(4W): WITH 4-WHEEL DRIVE

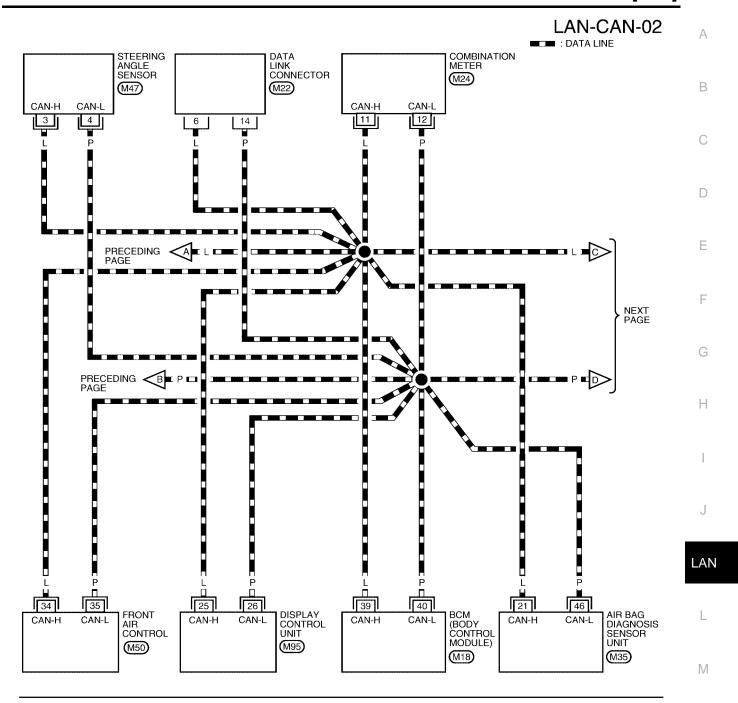
BKWA0647E

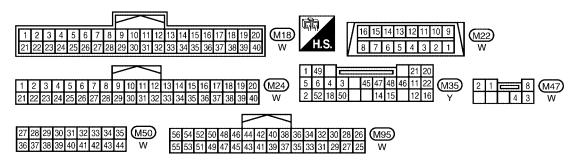
Wiring Diagram — CAN — LAN-CAN-01 : DATA LINE ICC SENSOR A/T ASSEMBLY (F9) (E42) (IC) CAN-H CAN-L CAN-H CAN-I 8 2 3 3 NEXT PAGE B69: M40 5 14 3 19 94 86 DRIVER SEAT CONTROL UNIT ICC UNIT ECM CAN-H CAN-H CAN-H CAN-L **E**16 (B13) (P2) REFER TO THE FOLLOWING. M40 - SUPER MULTIPLE 119 120 121 JUNCTION (SMJ) E34 F14 (E16) 11 12 13 14 15 16 17 (B13) (E42) (F9)

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

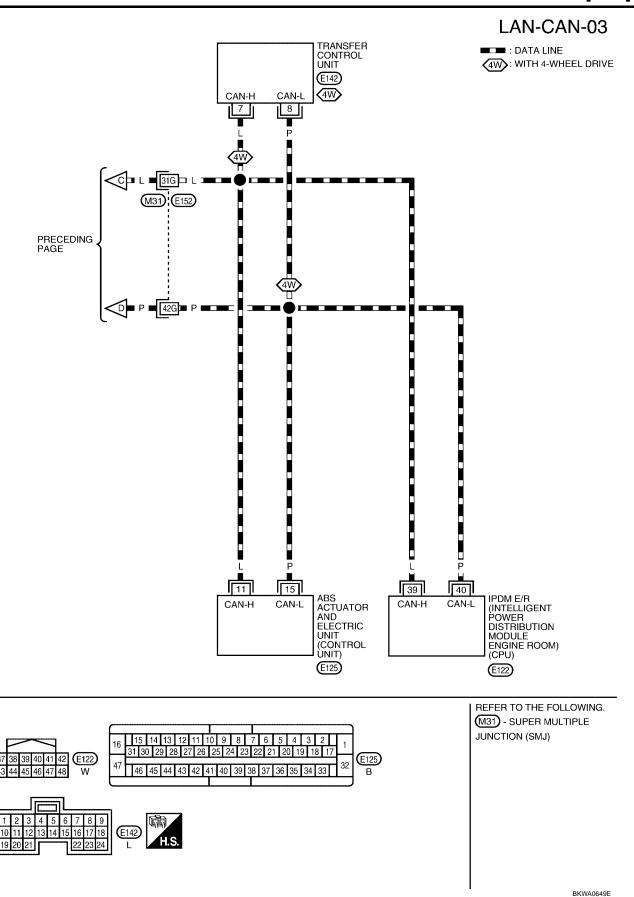
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

1 4 5 6 7 **B**37





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CAN COMMUNICATION

[CAN]

CAN Communication Unit

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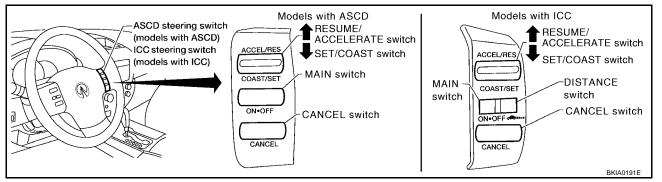
Go to CAN system, when selecting your CAN system type from the following table.

Body type	Wagon								
Axle	2WD 4WD								
Engine	VK56DE								
Transmission	A/T								
Brake control		VI	DC						
ICC system		×		×					
CAN system type	1 2 3								
CAN system trouble diagnosis	<u>LAN-39</u> <u>LAN-57</u> <u>LAN-79</u> <u>LAN-98</u>								

^{×:} Applicable

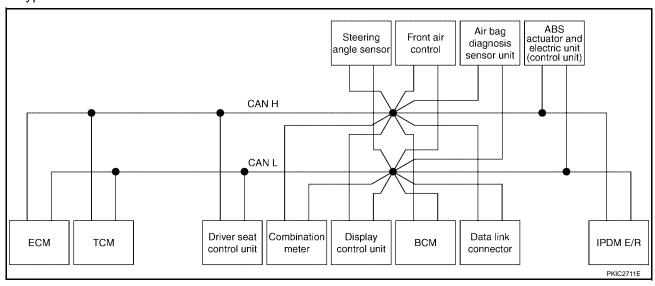
NOTE:

Vehicles equipped with ICC can be identified by the presence of a ICC switch.



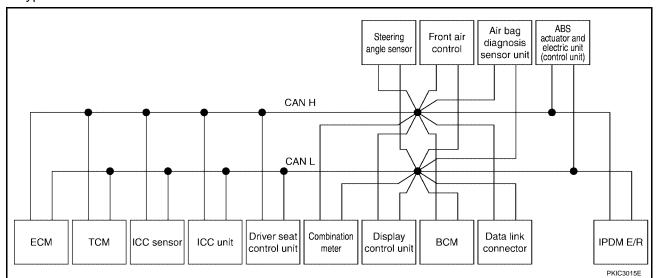
TYPE1/TYPE2 System diagram

Type1



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Input/output signal chart

T: Transmit R: Receive

										Tansını		CCCIVC
Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т											R
Accelerator pedal position signal	Т	R		R							R	
ASCD CRUISE lamp signal	Т					R						
ASCD OD cancel request signal	Т	R										
ASCD operation signal	Т	R										
ASCD SET lamp signal	Т					R						
Battery voltage signal	Т	R										
Closed throttle position signal	Т	R		R								
Cooling fan speed request signal	Т											R
Engine coolant temperature signal	Т					R				R		
Engine speed signal	Т	R		R		R	R			R	R	
Engine status signal	Т							R				
Fuel consumption monitor signal	Т					R						
						Т	R					
ICC steering switch signal	Т			R								
Malfunction indicator lamp signal	Т					R						
Wide open throttle position signal	Т	R										
A/T CHECK indicator lamp signal		Т				R						

CAN COMMUNICATION

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Signals	ECM	TCM	ICC sensor*1	ICC unit ^{*1}	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	ABS actuator and electric unit (control unit)	IPDM E/R
A/T fluid temperature sensor signal		T				R						
A/T position indicator lamp signal		Т		R		R						
A/T self-diagnosis signal	R	Т										
Current gear position signal		Т		R							R	
Output shaft revolution signal	R	T		R								
P range signal		T		R	R						R	
Turbine revolution signal	R	T		R								
ICC sensor signal			Т	R								
Buzzer output signal				Т		R R		T				
ICC OD cancel request signal	R	R		Т								
ICC operation signal	R	R		Т								
ICC system display signal				Т		R						
System setting signal					T R		R T					
1st position switch signal		R				Т						
4th position switch signal		R				Т						
Distance to empty signal						Т	R					
Fuel level low warning signal						Т	R					
Fuel level sensor signal	R					Т						
Parking brake switch signal						Т		R				
Stop lamp switch signal		R				Т		R				
Tow mode switch signal		R				Т						
						R				R	Т	
Vehicle speed signal	R	R	R		R	Т	R	R				
A/C switch/indicator signal							Т			R		
A/C switch signal	R						R	Т		T R		<u> </u>
Blower fan motor switch signal	R							T		13		
Day time running light request signal	IX.							T				R
Door switch signal					R	R	R	T				R
Front fog light request signal					11	11	11	T				R
Front wiper request signal				R				т Т				R
High beam request signal				10		R		T				R
riigir beaiii request signai						13		ı				IX.

Revision: November 2009 LAN-33 2006 QX56

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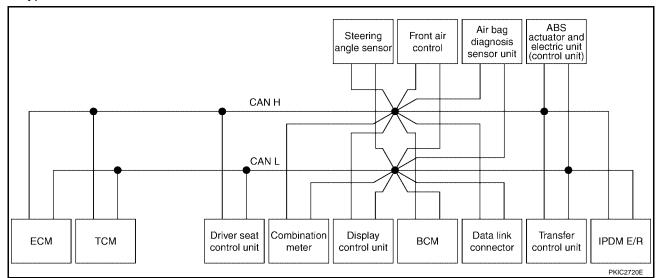
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Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	ABS actuator and electric unit (control unit)	IPDM E/R
High beam status signal	R											Т
Horn chirp signal								Т				R
Ignition switch signal					R			Т				R
Key fob door unlock signal					R			Т				
Key fob ID signal					R			Т				
Key switch signal					R			Т				
Low beam request signal								Т				R
Low beam status signal	R											Т
Position light request signal						R		Т				R
Rear window defogger switch signal								Т		R		R
Sleep wake up signal					R	R		Т				R
Theft warning horn request signal								Т				R
Tire pressure data signal							R	Т				
Tire pressure signal						R		Т				
Turn indicator signal						R		Т				
Steering angle sensor signal									Т		R	
ABS malfunction signal				R							Т	
ABS warning lamp signal						R					Т	
Brake pressure sensor signal				R							Т	
Brake warning lamp signal						R					Т	
SLIP indicator lamp signal						R					Т	
TCS malfunction signal				R							Т	
VDC malfunction signal				R							Т	
VDC OFF indicator lamp signal				R		R					Т	
VDC operation signal				R							Т	
Front wiper stop position signal								R				Т
Hood switch signal								R				Т
Rear window defogger control signal	R						R					Т

^{• *1:} with ICC model only

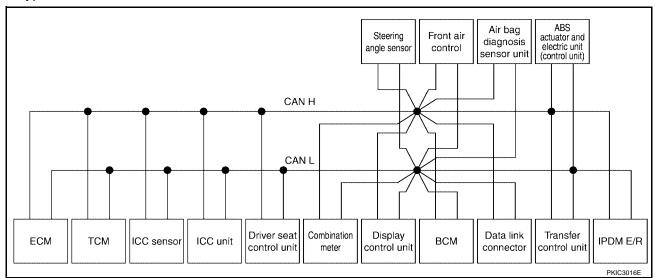
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TYPE 3/TYPE4 System diagram

• Type3



Type4



Input/output signal chart

										T: T	ransmi	t R:R	eceive
Signals	ECM	TCM	ICC sensor*1	ICC unit ^{*1}	Driver seat control unit	Combination meter	Display control unit	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	Т												R
Accelerator pedal position signal	Т	R		R							R	R	

Revision: November 2009 LAN-35 2006 QX56

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Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ASCD CRUISE lamp signal	Т					R							
ASCD OD cancel request signal	Т	R											
ASCD operation signal	Т	R											
ASCD SET lamp signal	Т					R							
Battery voltage signal	Т	R											
Closed throttle position signal	Т	R		R									
Cooling fan speed request signal	Т												R
Engine coolant temperature signal	Т					R				R			
Engine speed signal	Т	R		R		R	R			R	R	R	
Engine status signal	Т							R					
Fuel consumption monitor signal	Т					R T	R						
ICC steering switch signal	Т			R									
Malfunction indicator lamp signal	Т					R							
Wide open throttle position signal	Т	R											
A/T CHECK indicator lamp signal		Т				R							
A/T fluid temperature sensor signal		Т				R							
A/T position indicator lamp signal		Т		R		R					R		
A/T self-diagnosis signal	R	Т											
Current gear position signal		Т		R								R	
Output shaft revolution signal	R	Т		R							R		
P range signal		Т		R	R							R	
Turbine revolution signal	R	Т		R									
ICC sensor signal			Т	R									
Buzzer output signal				Т		R R		Т					
ICC OD cancel request signal	R	R		Т									
ICC operation signal	R	R		Т									
ICC system display signal				Т		R							
System setting signal					T R		R						
1st position switch signal		R			11	Т	1						
4th position switch signal		R				т Т							
in position owiton signal		-11				'	R	1					

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Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Fuel level low warning signal						Т	R						
Fuel level sensor signal	R					Т							
Parking brake switch signal						Т		R					
Stop lamp switch signal		R				Т		R					
Tow mode switch signal		R				Т							
Vehicle speed signal						R				R	R	Т	
	R	R	R		R	Т	R	R					
A/C switch/indicator signal							Т			R			
							R			Т			
A/C switch signal	R							Т		R			
Blower fan motor switch signal	R							Т					
Day time running light request signal								Т					R
Door switch signal					R	R	R	Т					R
Front fog light request signal								Т					R
Front wiper request signal				R				Т					R
High beam request signal						R		Т					R
High beam status signal	R												T
Horn chirp signal								Т					R
Ignition switch signal					R			Т					R
Key fob door unlock signal					R			Т					
Key fob ID signal					R			Т					
Key switch signal					R			Т					
Low beam request signal								Т					R
Low beam status signal	R												Т
Position light request signal						R		Т					R
Rear window defogger switch signal								Т		R			R
Sleep wake up signal					R	R		Т					R
Theft warning horn request signal								Т					R
Tire pressure data signal							R	Т					
Tire pressure signal						R		Т					
Turn indicator signal						R		Т					
Steering angle sensor signal									Т			R	
ABS malfunction signal				R								Т	
ABS warning lamp signal						R						Т	

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Signals	ECM	TCM	ICC sensor*1	ICC unit*1	Driver seat control unit	Combination meter	Display control unit	BCM	Steering angle sensor	Front air control	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Brake pressure sensor signal				R								Т	
Brake warning lamp signal						R						Т	
SLIP indicator lamp signal						R						Т	
TCS malfunction signal				R								Т	
VDC malfunction signal				R								Т	
VDC OFF indicator lamp signal				R		R						Т	
VDC operation signal				R								Т	
Front wiper stop position signal								R					Т
Hood switch signal								R					Т
Rear window defogger control signal	R						R						Т

^{• *1:} with ICC model only

CAN SYSTEM (TYPE 1)

CAN SYSTEM (TYPE 1)	[CANIT
	[CAN]
CAN SYSTEM (TYPE 1)	PFP:23710
Component Parts and Harness Connector Location	UKS004SV
Refer to LAN-26, "Component Parts and Harness Connector Location" .	
Schematic	UKS004SW
Refer to LAN-27, "Schematic".	
Wiring Diagram — CAN —	UKS004SX
Refer to LAN-28, "Wiring Diagram — CAN —".	
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Check Sheet

NOTE:

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

					C,	AN DIAG	SUPPO	RT MNT	TR .					
SELECT SYSTEM	1 ceroon	Initial	Transmit				Rece	ive diag	nosis				SELE-DIAG	DECLITO
SELECT STOTEW		Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODEIG
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	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	_	-	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	_	_	UNKWN	UNKWN	1	_	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 Trans	lation Sheet: Rewrite the following	names, and put a check mark on the a	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	всм	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

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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	

Revision: November 2009 LAN-41 2006 QX56

CHECK SHEET RESULTS (EXAMPLE)

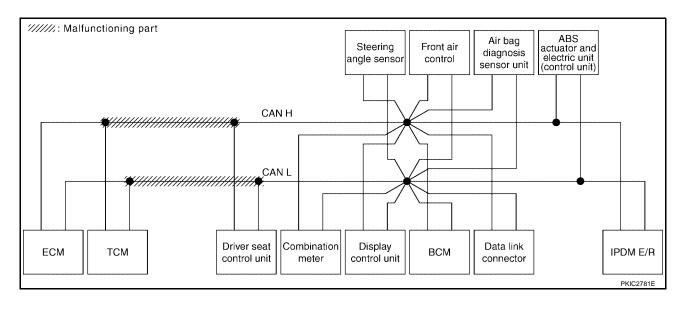
NOTE:

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 <u>LAN-124</u>, "<u>Inspection Between TCM and Driver Seat Control Unit Circuit"</u>.

					C	AN DIAG	SUPPO	RT MN1	ΓR					
SELECT SYSTEM	l ecroon	Initial	Transmit				Rece	ive diag	nosis				SELE-DIAG	RESULTS
OLLLOT STOTEN		diagnosis		NIT LUDOTTOOL								IPDM E/R		THEODEIG
ENGINE	***	_	UNKWN	ı	UNKWN	UNK WN	-	UNK WN	-	_	UNK WN	UNK ₩N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN:01)
A/T	-	NG	UNKWN	UNKWN	-	UNK WN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 000)	-
AUTO DRIVE POS.	No indication	_	_	_	UNK WN	UNKWN	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (UN)00)	-
Display control unit	-	NG	UNKWN	n nk wn	-	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	_	-
BCM	No indication	NG	UNKWN	UNK WN	-	UNKWN	-	ł	-	-	ł	UNKWN	CAN COMM CIRCUIT (U1000)	+
HVAC	No indication	_	UNKWN	UNK WN	_	_	UNKWN	UNKWN	_	_	UNKWN	_	_	
ABS		NG	UNKWN	UNK WN	UNK WN	-		1	UNKWN		_		CAN COMM CIRCUIT (UN 000)	_
IPDM E/R	No indication	-	UNKWN	UN K ₩N	_	-	_	UNKWN	_	_	-	-	CAN COMM CIRCUIT (UN00)	_



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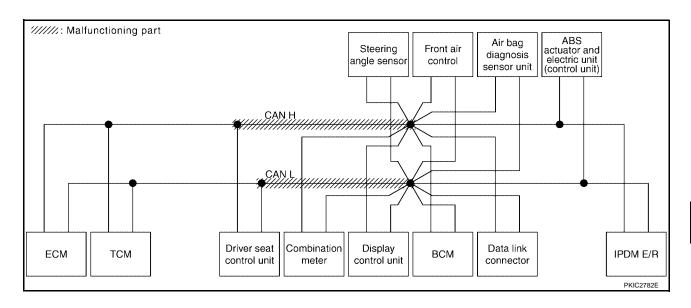
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Case 2

Check harness between driver seat control unit and data link connector. Refer to <u>LAN-126</u>, "Inspection <u>Between Driver Seat Control Unit and Data Link Connector Circuit"</u>.

					C	an diag	SUPPO	RT MN1	ſR					
SELECT SYSTEM	1 corpon	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	BESHITS
OLLLOT STOTEN		diagnosis		ECM	ТСМ	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODETO
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	-	UNK WN	_	_	UNK WN	NNWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	-	_	_	UNK WN	-	CAN COMM CIRCUIT (UN 000)	-
AUTO DRIVE POS.	No indication	_	_	-	UNKWN	UNKWN	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (UN00)	
Display control unit	_	NG	UNKWN	UNK W N	_	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	Π ΝΚ ΜΝ	-	UNKWN	_	-	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNK WN	-	-	UNKWN	UNKWN	_	_	UNKWN	-	-	_
ABS	_	NG	UNKWN	UNK WN	UNK ₩N	-	_	_	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	-	_	-	-	CAN COMM CIRCUIT (UN00)	_

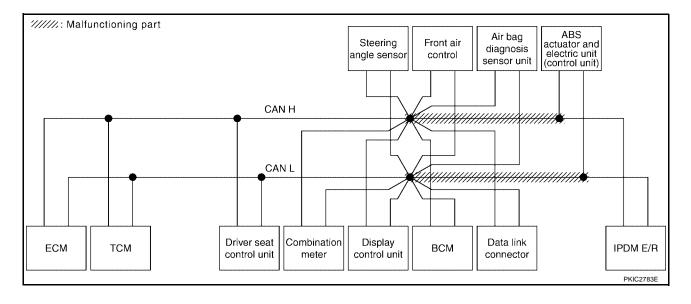


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Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-127</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

						ANIDIAC	CHDDC	OT MANIT	rn				I	
					<i>U</i> /	AN DIAG	SUPPO							
SELECT SYSTEM	screen	Initial	Transmit			,	Rece	ive diag	nosis	,			SELE-DIAG	RESULTS
		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE		1	UNKWN	I	UNKWN	UNKWN	-	UNKWN	-	-	UNK WN	UNK ₩N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN:01)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	-	_	-	UNK WN	-	CAN COMM CIRCUIT (UN 000)	-
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNK WN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	1	UNKWN	-	+	-	-	-	UNK ₩N	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	Π ΝΚ ΜΝ	_	_	
ABS	_	NG	UNKWN	NN WN	UNK WN	_	_	1	NAK WN	_	_	_	CAN COMM CIRCUIT (UN 000)	_
IPDM E/R	No indication	1	UNKWN	UNKWN		-	_	UNKWN	_	-	-	_	CAN COMM CIRCUIT (UN 000)	-



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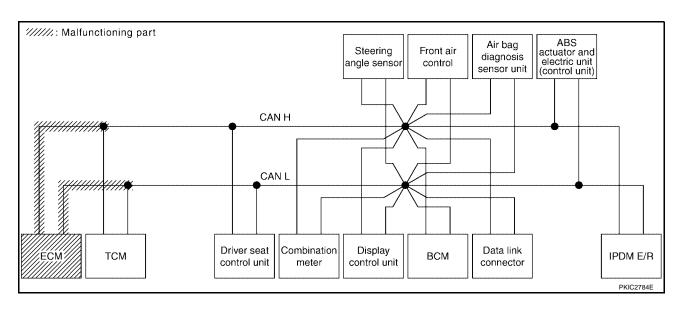
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Case 4
Check ECM circuit. Refer to <u>LAN-128</u>, "ECM Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN1	R					
SELECT SYSTEM	1 coreen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	PESITE
SELECT STOTEN		diagnosis		agnosis ECM TCM METER DISPLAY BCM/SEC STRG HVAC VDC/TCS IPI							IPDM E/R	SELI-BIAC	THEODEIG	
ENGINE		_	UNK WN	I	NNK WN	UNKWN	-	UNK WN	-	-	UNK WN	NNKWN	CAN COMM CIRCUIT (UN 000)	CAN COMM CIRCUIT (UN01)
A/T	+	NG	UNKWN	Π ΝΚ ΜΝ	1	UNKWN	-	-	I	-	UNKWN	-	CAN COMM CIRCUIT (UN 000)	ŀ
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNKWN	_	_	-	-	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	NNK WN	-	UNKWN	_	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNK WN	ŀ	UNKWN	-	1	ŀ	1	I	UNKWN	CAN COMM CIRCUIT (U1000)	1
HVAC	No indication	_	UNKWN	Ω NK WN	-	_	UNKWN	UNKWN	_	_	UNKWN	-	_	-
ABS	_	NG	UNKWN	NNK WN	UNKWN	-	-	-	UNKWN	_	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	Π ΝΚ ΜΝ	-	_	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U 200)	-



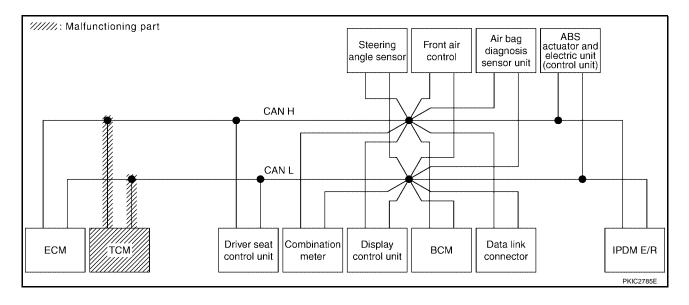
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Case 5
Check TCM circuit. Refer to <u>LAN-129</u>, "TCM Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN1	ſR					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	RESULTS
OLLLOT OTOTEN		diagnosis		ECM	ТСМ	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	JELI -DIAC	THEOOLIG
ENGINE	_	_	UNKWN	I	Ω NK (MN	UNKWN	-	UNKWN	_	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN 000)	CAN COMM CIRCUI (UN001)
A/T	_	NG	UNKWN	Π ΛΚ ΜΝ	-	UNKWN	_	-	_	_	UNK WN	-	CAN COMM CIRCUIT (UN000)	-
AUTO DRIVE POS.	No indication	_	_	1	UN K ₩N	UNKWN	-	UNKWN	_		-	-	CAN COMM CIRCUIT (UN000)	alana.
Display control unit	1	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN		_	UNKWN	UNKWN	_	_	UNKWN	-	-	
ABS	_	NG	UNKWN	UNKWN	UNK ∕ ₩N	_	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (UN000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_



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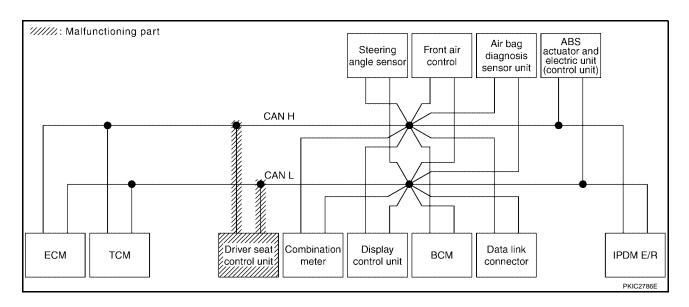
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Case 6
Check driver seat control unit circuit. Refer to <u>LAN-130</u>, "<u>Driver Seat Control Unit Circuit Inspection</u>" .

					C/	AN DIAG	SUPPO	PRT MN1	ſŔ					
SELECT SYSTEM	1 coreen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	PESHITS
OLLLOT OTOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	I	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	1	UNKWN	+	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNKWN	_	_	1	-	CAN COMM CIRCUIT (UN 00)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	ŀ	UNKWN	ŀ	1	-	1	I	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)	_

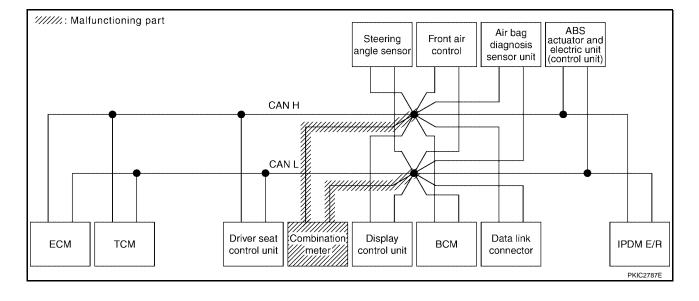


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Case 7
Check combination meter circuit. Refer to <u>LAN-131</u>, "Combination Meter Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN1	ſR					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELE-DIAG	RESULTS
OLLLOT GTOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI BIAC	THEODETO
ENGINE	_	-	UNKWN	ı	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN:01)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	-	_	_	UNKWN	-	CAN COMM CIRCUIT (U 200)	-
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	NNKWN	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (UN 000)	
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ВСМ	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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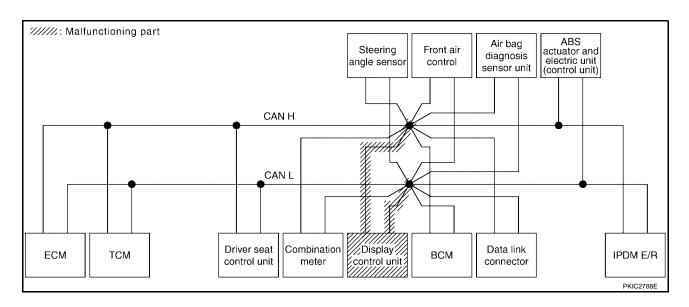
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Case 8
Check display control unit circuit. Refer to <u>LAN-131</u>, "<u>Display Control Unit Circuit Inspection</u>" .

					C	AN DIAG	SUPPO	PRT MNT	ſR					
SELECT SYSTEM	1 screen	Initial	Transmit			,	Rece	ive diag	nosis				SELF-DIAG	RESULTS
OLLLOT OTOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	-	UNKWN	I	UNKWN	UNKWN	-	UNKWN	1	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	+	NG	UNKWN	UNKWN	-	UNKWN	+	+	I	+	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNKWN	1		-	_	CAN COMM CIRCUIT (U1000)	
Display control unit	-	NG	UNK W N	Π ΝΚ ΜΝ	_	UNKWN	1	UNK WN	ı	UNK WN	1	UNK WN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	+	ŀ	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	+
HVAC	No indication	_	UNKWN	UNKWN		_	UNK WN	UNKWN	-	_	UNKWN	_	_	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	-	UNKWN	_	_	-	-	CAN COMM CIRCUIT (U1000)	-

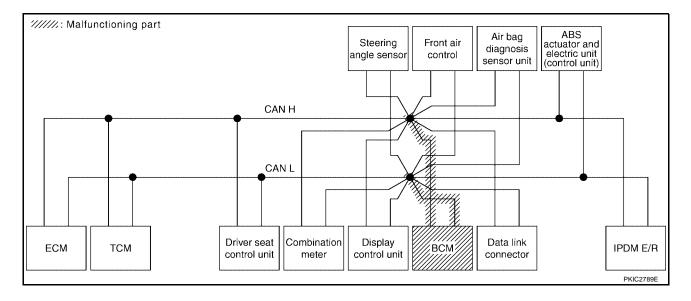


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Case 9
Check BCM circuit. Refer to <u>LAN-132</u>, "BCM Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN1	ſR					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELE-DIAG	RESULTS
OLLLOT GTOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI BIAC	THEODETO
ENGINE	_	_	UNKWN	I	UNKWN	UNKWN	-	UNK WN	_	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	_	-	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNK WN	_	_	-	_	CAN COMM CIRCUIT (UN 200)	
Display control unit	1	NG	UNKWN	UNKWN	1	UNKWN	-	UNK WN	-	UNKWN	-	UNKWN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	ŀ	UNKWN	-	ı	-	-	ŀ	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	-	_	UNKWN	UNK WN	_	_	UNKWN	_	_	
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	-	UNK WN	_	-	-	-	CAN COMM CIRCUIT (UN00)	-
														PKIC3282E



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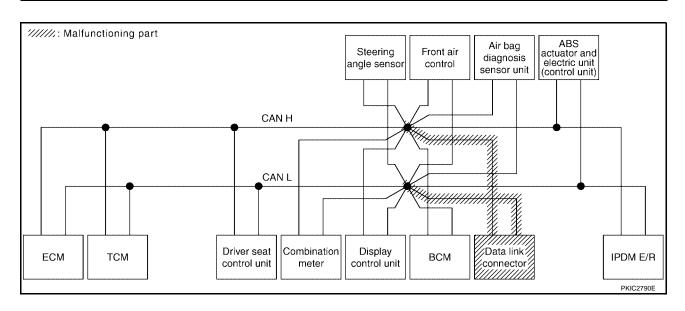
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Case 10

Check data link connector circuit. Refer to LAN-132, "Data Link Connector Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MNT	ſŔ					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	RESULTS
OLLLOT OTOTLIV		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	THEOOLIG
ENGINE	-	1	UNKWN	I	UNKWN	UNKWN	1	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	1	NG	UNKWN	UNKWN	-	UNKWN	1	-	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNKWN	_	_	1	-	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
BCM	No individual individu	NG	UNKWN	UNKWN	-	UNKWN	ł	1	-	-	ł	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)	-



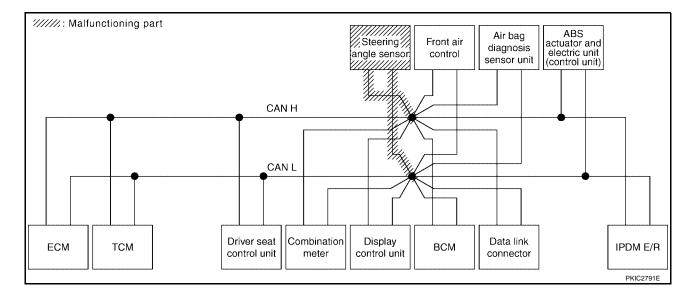
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Case 11
Check steering angle sensor circuit. Refer to <u>LAN-133</u>, "Steering Angle Sensor Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN1	ſR					
SELECT SYSTEM	1 coreen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	PESITE
OLLLOT OTOTEK	1 3010011	diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	JEEF BIAC	THEODEIG
ENGINE	_	-	UNKWN	I	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	UNKWN	+	UNKWN	-	+	ł	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	+
AUTO DRIVE POS.	No indication		_	1	UNKWN	UNKWN	_	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	-	UNKWN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN		_	UNKWN	UNKWN	1	_	UNKWN	-	-	_
ABS	_	NG	UNKWN	UNKWN	UNKWN		_	_	NNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	UNKWN	_	_	-	-	CAN COMM CIRCUIT (U1000)	



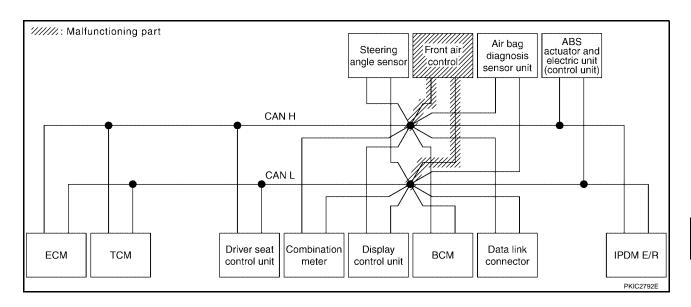
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Case 12
Check front air control circuit. Refer to <u>LAN-133</u>, "Front Air Control Circuit Inspection" .

					C/	AN DIAG	SUPPO	PRT MNT	ſR					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	RESULTS
OLLLOT OTOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	-	UNKWN	I	UNKWN	UNKWN	-	UNKWN	1	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	1	NG	UNKWN	UNKWN	1	UNKWN	1	1	I	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNKWN	1		1	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	1	NG	UNKWN	UNKWN	1	UNKWN	-	UNKWN	1	UNKWN	1	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	1	UNKWN	ŀ	1	ŀ	1	ŀ	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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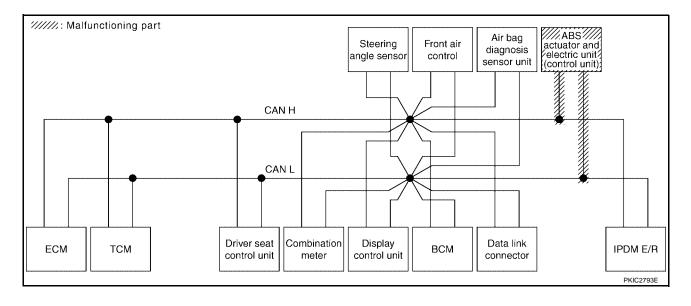
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Case 13

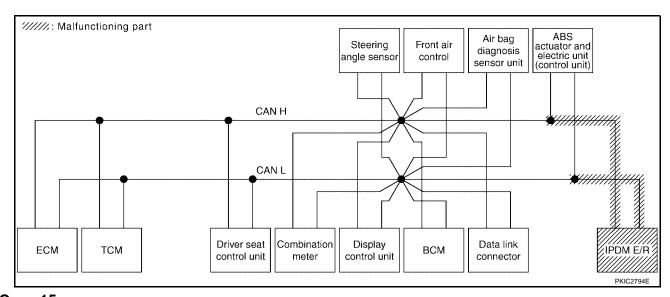
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-134</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

					C	AN DIAG	SUPPO	RT MN1	ſR					
SELECT SYSTEM	1 coreen	Initial	Transmit				Rece	ive diag	nosis				SELE-DIAG	RESULTS
SELECT STOTEN		diagnosis		ECM	ТСМ	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELI-BIAC	THEODETO
ENGINE	_	-	UNKWN	I	UNKWN	UNKWN	-	UNKWN	-	-	UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	_	-	_	-	UNK WN	-	CAN COMM CIRCUIT (UN 000)	-
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNKWN	_	_	1	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	1	UNKWN	-	+	-	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	+
HVAC	No indication	_	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	Π ΝΚ ΜΝ	_	_	_
ABS	_	₩	UNK WN	NNK WN	UNK WN	-	_	-	UNK WN	_	-	-	CAN COMM CIRCUIT (UN 00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	



Case 14
Check IPDM E/R circuit. Refer to <u>LAN-135</u>, "IPDM E/R Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN1	ſR					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	RESULTS
OLLEGI GIGIEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	-	UNKWN	I	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNK WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN:01)
A/T	-	NG	UNKWN	UNKWN	+	UNKWN	1	-	ŀ	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	ŀ
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNKWN	1	_	1	-	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNK WN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	+	UNKWN	-	-	ŀ	-	-	Π ΝΚ (ΛΙΝ	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 (UN00)	-



Case 15
Check CAN communication circuit. Refer to <u>LAN-135</u>, "CAN Communication Circuit Inspection" .

					C	an diag	SUPPO	DRT MN	ΓR					
SELECT SYSTEM	1 corpon	Initial	Transmit				Rece	eive diag	nosis				SELF-DIAG	PESHITS
SELECT STOTEN	13010011	diagnosis		ECM	ТСМ	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELI-BIAC	THEODEIG
ENGINE	_	-	UNK WN	1	n uk {∕wu	UNK WN	-	UNK WN	-	-	UNK ≪ N	UNK ₩N	CAN COMM CIRCUIT (UN 00)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNK WN	-	UNK WN	_	-	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 00)	-
AUTO DRIVE POS.	No indication	-	_	1	UNKWN	UNKWN	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (UN 000)	_
Display control unit	_	NG	UNK W N	Ω NK , WN	-	UNKWN	-	UNK WN	-	UNKWN	-	UNK ₩N	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_	_	UNKWN	-	_	_
ABS	_	₩	UNKWN	UNK WN	UNK ₩N	-	_	-	NNKWN	-	-	_	CAN COMM CIRCUIT (UN 00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (UN00)	-

Revision: November 2009 LAN-55 2006 QX56

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Case 16

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-137, "IPDM E/R Ignition Relay Circuit Inspection"</u>.

					C	AN DIAG	SUPPO	DRT MN1	ſR					
SELECT SYSTEM	1 corpon	Initial	Transmit				Rece	eive diag	nosis				SELE-DIAG	RESULTS
OLLLOT OTOTEN	1 3010011	diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELI-BIAC	THEODEIG
ENGINE	_	_	UNKWN	_	UNK WN	UNKWN	-	UNKWN	_	-	UNK WN	UNKWN	CAN COMM CIRCUIT (UN000)	CAN COMM CIRCUI (UN001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	_	-	ŀ	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	_	-	UNK WN	UNKWN	_	UNKWN	1	_	1	-	CAN COMM CIRCUIT (UN 200)	
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	1	UNKWN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	-	-	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	_	Π ΝΚ ,ΜΝ	-	_	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	_	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U1000)	-

Case 17

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-137, "IPDM E/R Ignition Relay Circuit Inspection" .

					C	AN DIAG	SUPPO	ORT MNT	R					
051 507 01075					<u></u>	TIV DITTO		eive diagr					0515 514	
SELECT SYSTEM	i screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	3 RESULTS
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN	-	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	-	-	_	_	-	_	-	UNKWN	-	CAN COMM CIRCUIT (UN000)	_
AUTO DRIVE POS.	No indication	_	_	1	UNKWN	UNKWN	_	UNKWN		_	1	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	-	-
ВСМ	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 (UN000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	-

CAN SYSTEM (TYPE 2)

CAN STSTEM (TTPE 2)	[CAN]	
CAN SYSTEM (TYPE 2)	PFP:23710	
Component Parts and Harness Connector Location	UKS004SZ	А
Refer to LAN-26, "Component Parts and Harness Connector Location" .		
Schematic	UK\$004T0	В
Refer to LAN-27, "Schematic".		
Wiring Diagram — CAN —	UK\$004T1	С
Refer to LAN-28, "Wiring Diagram — CAN —" .		
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Check Sheet

NOTE:

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

						CAN	N DIAG	SUPPO	ORT MI	NTR						
SELECT SYSTEM	1 screen	Initial	Transmit		,				ive diaç						SELE-DIAG	RESULTS
022207 070721		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	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 CIRCUI (U1001)
A/T	_	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	1	1	1	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	ł	-	UNKWN	I	1	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	_	_
всм	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	_	_		UNKWN	_			CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	-	1	-	UNKWN	1	1	1	1	CAN COMM CIRCUIT (U1000)	_

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

Display control unit Transl	ation Sheet: Rewrite the following	names, and put a check mark on the a	bove 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

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

Revision: November 2009 LAN-59 2006 QX56

CHECK SHEET RESULTS (EXAMPLE)

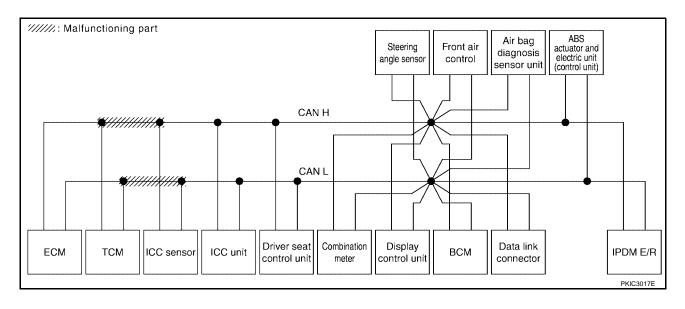
NOTE:

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

Case 1

Check harness between TCM and ICC sensor. Refer to <u>LAN-123</u>, "Inspection Between TCM and ICC Sensor <u>Circuit"</u>.

						CAN	I DIAG	SUPP	ORT MI	VTR						
SELECT SYSTEM	1 screen	Initial	Transmit				,	,	ive diag	nosis		,			SELF-DIAG	BESULTS
OLLEG TOTOTER		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	022. 57.10	THEODERO
ENGINE	1	1	UNKWN	1	UNKWN	1		NNKWN	_	UNK WN	1	-	UNKWN	UNK W N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A/T		NG	UNKWN	UNKWN	_	_	NNKWN	UNKWN	_	_	_	_	UNKWN	-	CAN COMM CIRCUIT (UN 00)	
ICC	1	NG	UNKWN	UNK WN	UNK WN	UNKWN	-	-	_	UNKWN	-	1	UNKWN	1	CAN COMM CIRCUIT (UN 00)	-
AUTO DRIVE POS.	No indication	-	ı	1	UNKWN	ı	-	UNKWN	_	UNKWN	ı	_	-	-	CAN COMM CIRCUIT (UN00)	-
Display control unit		NG	UNKWN	UNK WN	-	_	_	UNKWN	_	UNKWN		UNKWN		UNKWN	-	
ВСМ	No indication	NG	UNKWN	UNK.WN	-	_	_	UNKWN	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNK W N	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	_	-
ABS		NG	UNKWN	NNKWN	NNKW N	_	UNKWN		_		UNKWN	_		-	CAN COMM CIRCUIT (UN 00)	
IPDM E/R	No indication	_	UNKWN	NNK WN	-	-	_	_	_	UNKWN	_	-	-	1	CAN COMM CIRCUIT (UN 000)	-
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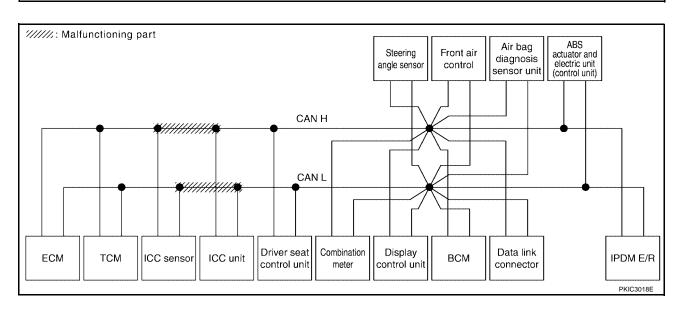
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Case 2

Check harness between ICC sensor and ICC unit. Refer to <u>LAN-125</u>, "Inspection Between ICC Sensor and ICC Unit Circuit" .

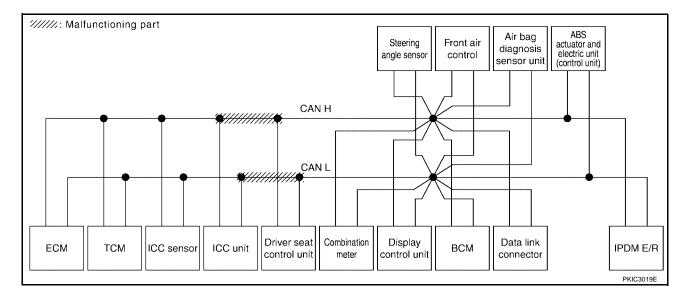
						CAN	I DIAG	SUPP	ORT M	NTR						
SELECT SYSTEM	screen	Initial	Transmit				,		ive diag	nosis	,	Ţ			SELE-DIAG	RESULTS
0.01		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	_		UNKWN	1	UNKWN	-	NNKWN		_	UNK WN	-	_	UNKWN	Π ΝΚ ΑΝ	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A/T		NG	UNKWN	UNKWN	_	_	NNK MN	NNKWN	_	_	_	_	UNKWN	-	CAN COMM CIRCUIT (UN 300)	
ICC	-	NG	UNKWN	UNK WN	UNK WN	Π INKW N	1	1	_	UNKWN	-	-	UNKWN	1	CAN COMM CIRCUIT (U. 300)	-
AUTO DRIVE POS.	No indication	-	1	ı	UNK.WN	-	1	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 100)	-
Display control unit		NG	UNKWN	Π NKW N	_	_	_	UNKWN	_	UNKWN		UNKWN		UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNK WN	-	-	-	UNKWN	-	-	_	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNK WN	1	ı	ı	ı	UNKWN	UNKWN	ı	-	UNKWN	-	-	1
ABS		NG	UNKWN	NNK W N	UNK WN	_	UNKWN	_			UNKWN	_		-	CAN COMM CIRCUIT (UN 00)	
IPDM E/R	No indication	_	UNKWN	Ω N W N	-	_	_	_	_	UNKWN	_	-	-	1	CAN COMM CIRCUIT (UN 00)	-
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Case 3
Check harness between ICC unit and driver seat control unit. Refer to <u>LAN-126</u>, "Inspection Between ICC Unit and Driver Seat Control Unit Circuit".

						CAN	I DIAG	SUPP	ORT MI	VTR						
SELECT SYSTEM	1 screen	Initial	Transmit					Rece	ive diaç	nosis					SELF-DIAG	RESULTS
OLLLO1 OTOTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	CEEF DIVIC	TILOGETO
ENGINE	1	_	UNKWN	1	UNKWN	1	UNKWN		_	UNK WN	1	_	UNKWN	UNK W N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A /T	-	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_		_		UNKWN	-	CAN COMM CIRCUIT (UN 000)	
ICC	1	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	1	_	UNK WN	-	-	UNK WN	1	CAN COMM CIRCUIT (UN00)	-
AUTO DRIVE POS.	No indication	-	ı	ı	UNKWN	-	-	UNKWN	_	UNKWN	ı	_	-	-	CAN COMM CIRCUIT (UN000)	-
Display control unit		NG	UNKWN	UNK W N	-	_	_	UNKWN	_	UNKWN		UNKWN		UNKWN	-	
ВСМ	No indication	NG	UNKWN	UNK W N	-	_	_	UNKWN	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNK WN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS		NG	UNKWN	UNK WN	UNK W N	-	UNK WN	_			UNKWN		1	-	CAN COMM CIRCUIT (UN000)	
IPDM E/R	No indication	_	UNKWN	n nk wn	-	_	_	_	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (UN000)	-
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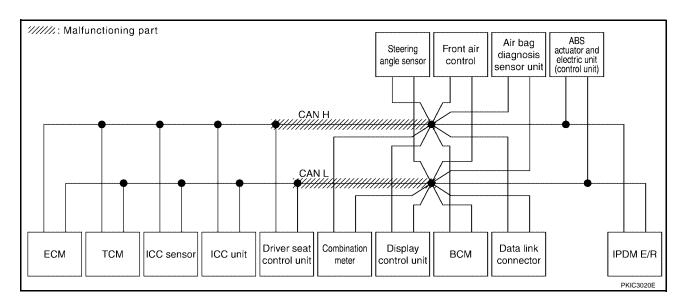
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Case 4

Check harness between driver seat control unit and data link connector. Refer to <u>LAN-126</u>, "Inspection <u>Between Driver Seat Control Unit and Data Link Connector Circuit"</u>.

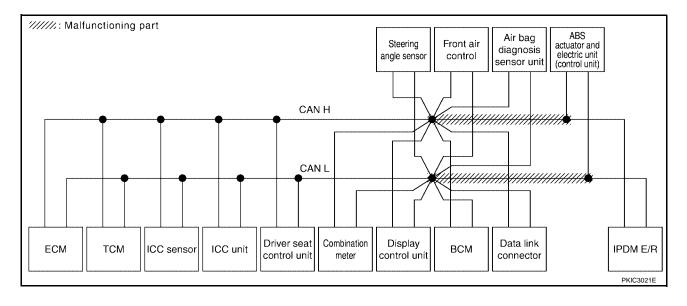
						CAN	I DIAG		ORT MI							
SELECT SYSTEM	1 screen	Initial	Transmit					Rece	ive diag	nosis					SELF-DIAG	RESULTS
OLLLOT GTGTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI DINO	TIEGOETO
ENGINE		-	UNKWN	1	UNKWN	-	UNKWN		_	UNK WN	_	_	UNKWN	UN K ₩N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T	_	NG	UNKWN	UNKWN	-	_	UNKWN	NNKWN	_	_	_	_	UNKWN	-	CAN COMM CIRCUIT (UN 00)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	ı	_	UNK WN	-	1	UNK WN	1	CAN COMM CIRCUIT (U. 00)	_
AUTO DRIVE POS.	No indication	-	ı	ı	UNKWN	-	1	UNKWN	_	UNKWN	-	_	ı	-	CAN COMM CIRCUIT (UN00)	-
Display control unit		NG	UNKWN	Π NKW N	_	_	_	UNKWN	_	UNKWN		UNKWN		UNKWN	_	
ВСМ	No indication	NG	UNKWN	UNK WN	-	_	-	UNKWN	-	_	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNK W N	1	-	-	-	UNKWN	UNKWN	_	_	UNKWN	-	-	_
ABS		NG	UNKWN	NNK W N	NNK W W	_	NNKWN	_	_		UNKWN	_	-	-	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	_	UNKWN	Ω N W N	-	_	_	-	_	UNKWN	_	-	-	1	CAN COMM CIRCUIT (UN00)	
																PKIC3522E



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Case 5
Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-127, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

						CAN	I DIAG	SUPP	ORT MI	NTR						
SELECT SYSTEM	screen	Initial	Transmit						ive diaç	nosis		,			SELE-DIAG	RESULTS
022201010101		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN		_	UNKWN	_	_	UNKWN	UN K ₩N	CAN COMM CIRCUIT (U1000)	(U M 01)
A/T		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN					UNK W N	_	CAN COMM CIRCUIT (U. 300)	
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	1	_	UNKWN	-	-	UNK WN	ı	CAN COMM CIRCUIT (U 100)	-
AUTO DRIVE POS.	No indication	-	ı	ı	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	1	CAN COMM CIRCUIT (U1000)	-
Display control unit		NG	UNKWN	UNKWN	-	1	_	UNKWN	_	UNKWN	_	UNKWN	_	UNK W N	_	_
всм	No indication	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	_	_	_	_	UNK WN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	1	-	-	-	UNKWN	UNKWN	-	-	UNKWN	ı	_	-
ABS		NG	UNKWN	Ω NKN N	NNK WN	-	n nk wn	1			UNKWN			1	CAN COMM CIRCUIT (U.00)	
IPDM E/R	No indication	1	UNKWN	UNKWN	1	-	_	1	_	UNKWN	-	_	-	1	CAN COMM CIRCUIT (U. 300)	-
																PKIC3523E



CAN SYSTEM (TYPE 2)

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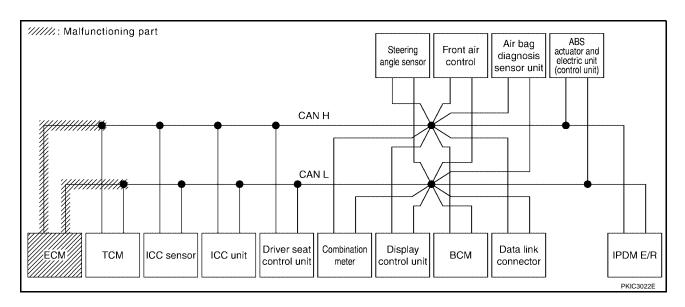
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Case 6
Check ECM circuit. Refer to <u>LAN-128</u>, "ECM Circuit Inspection" .

						CAN	I DIAG	SUPP	ORT MI	VTR						
SELECT SYSTEM	screen	Initial	Transmit					Rece	ive diag	nosis		,			SELF-DIAG	BESUITS
OLLEGI GIGILIA		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	1	UNK W N	1	UNK WN	I	NNKWN		_	UNKWN	1	_	UNKWN	UNK W N	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN001)
A/T		NG	UNKWN	Π NKW N	_	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U. 000)	-
ICC	_	NG	UNKWN	UNK WN	UNKWN	UNKWN	-	-	_	UNKWN	-	_	UNKWN	-	CAN COMM CIRCUIT (U. 200)	-
AUTO DRIVE POS.	No indication	-	I	ı	UNKWN	-	1	UNKWN	-	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U1000)	_
Display control unit		NG	UNKWN	Π NK W N	_	-	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNK W N	-	-	_	UNKWN	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	1	UNKWN	UNK WN	ł	-	ı	ı	UNKWN	UNKWN	ı	_	UNKWN	-	_	-
ABS		NG	UNKWN	UNK WN	UNKWN	-	UNKWN	_	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No indication	_	UNKWN	NNK WN	1	-	-	-	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (UN00)	_
																PKIC3524E



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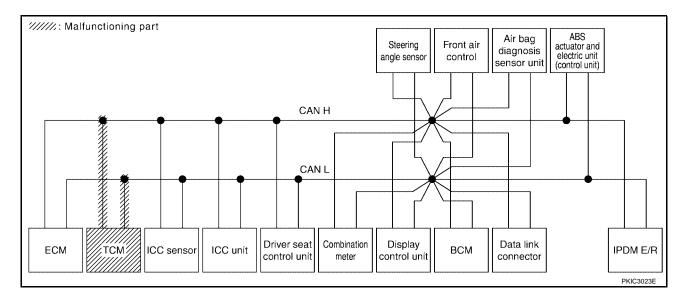
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Case 7
Check TCM circuit. Refer to <u>LAN-129</u>, "TCM Circuit Inspection" .

						CAN	DIAG		ORT MI							
SELECT SYSTEM	1 screen	Initial	Transmit					Rece	ive diag	nosis					SELF-DIAG	RESULTS
OLLLO1 STOTEN	i Sciceii		diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	_	UNKWN	-	UNK W N	-	UNKWN		_	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (UN000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	NNK WN	_	_	UNKWN	UNKWN	_	_	_	_	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
ICC	1	NG	UNKWN	UNKWN	UNK WN	UNKWN	-	-	_	UNKWN	-	1	UNKWN	1	CAN COMM CIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	-	1	-	UNKWN	-	_	UNKWN	_	UNKWN	_	-	1	-	CAN COMM CIRCUIT (UN000)	_
Display control unit		NG	UNKWN	UNKWN	-	-	_	UNKWN	-	UNKWN		UNKWN		UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	_	UNKWN	-	_	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	-	_	_	-	UNKWN	UNKWN	_	_	UNKWN	_	_	_
ABS	-	NG	UNKWN	UNKWN	UNK W N	-	UNKWN			-	UNKWN	_	1	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	-	1	CAN COMM CIRCUIT (U1000)	
																PKIC3525E



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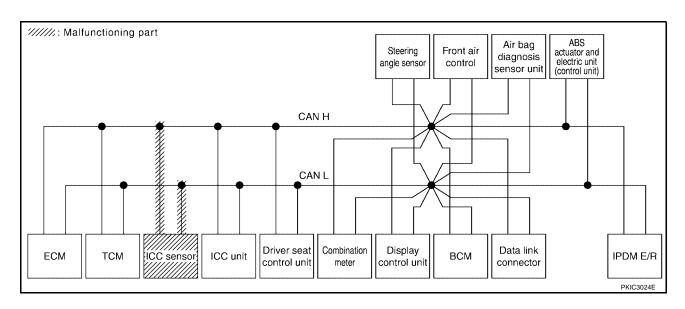
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Case 8
Check ICC sensor circuit. Refer to <u>LAN-129</u>, "ICC Sensor Circuit Inspection" .

						CAN	I DIAG	SUPPO	ORT MI	VTR						
SELECT SYSTEM	A screen	Initial	Transmit			,	,	Rece	ve diag	nosis		,			SELE-DIAG	RESULTS
OLLEGY GIGIEN			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	JEEL BING	
ENGINE	_	_	UNKWN	1	UNKWN	_	UNKWN	UNKWN	1	UNKWN	1	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_		_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	
ICC	_	NG	UNKWN	UNKWN	UNKWN	UNK WN	-	-	ı	UNKWN	-	-	UNKWN	I	CAN COMM CIRCUIT (U. 300)	-
AUTO DRIVE POS.	No indication	-	ı	-	UNKWN	-	_	UNKWN	-	UNKWN	_	_	_	ı	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	_	-		UNKWN	_		_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	-	UNKWN	_	_	_	1	CAN COMM CIRCUIT (U1000)	-
																PKIC3526E

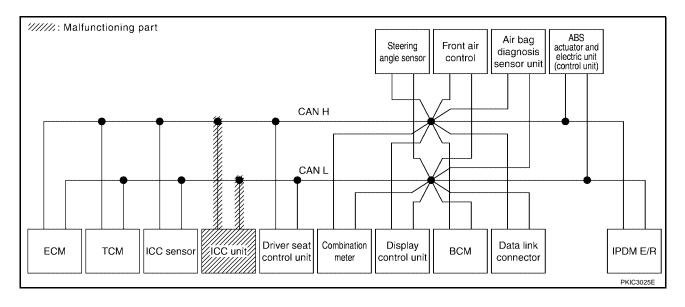


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Case 9
Check ICC unit circuit. Refer to <u>LAN-130</u>, "ICC Unit Circuit Inspection" .

						CAN	I DIAG		ORT MI								
SELECT SYSTEM screen		Initial	Transmit				,	Rece	ive diag	nosis		,			SELF-DIAG RESULTS		
			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OEEI DING	THEODETO	
ENGINE	1	1	UNKWN	1	UNKWN	1	NKWN	UNKWN	_	UNKWN	1	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)	
A /T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_		_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)		
ICC	-	NG	UNK WN	UNK WN	UNK WN	UNK WN	-	-	_	UNKWN	-	1	UNKWN	-	CAN COMM CIRCUIT (U. 00)	-	
AUTO DRIVE POS.	No indication	_	1	-	UNKWN	-	_	UNKWN	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	-	
Display control unit		NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN		UNKWN	_	UNKWN	-	_	
ВСМ	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	_			UNKWN	_	1	_	CAN COMM CIRCUIT (U1000)		
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	_	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	-	
																PKIC3527E	



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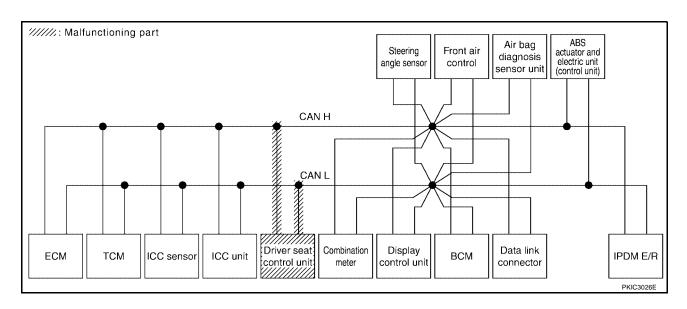
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Case 10

Check driver seat control unit circuit. Refer to LAN-130, "Driver Seat Control Unit Circuit Inspection".

SELECT SYSTEM screen		Initial	Transmit					Rece	ive diag	nosis					SELF-DIAG RESULTS	
			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SEEF-DIAG NEGOLIS	
ENGINE	-	1	UNKWN	ı	UNKWN	ı	UNKWN		_	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
V T		NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	-		_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	
CC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	I	-	UNKWN	1	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	-	_	UNKWN	_	UNKWN	_	_	_		CAN COMM CIRCUIT (UN000)	_
Display control unit		NG	UNKWN	UNKWN	-	_	-	UNKWN		UNKWN	_	UNKWN	-	UNKWN		_
ВСМ	No indication	NG	UNKWN	UNKWN	-	ı	1	UNKWN	_	-	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	1	UNKWN	UNKWN	-	-	1	ŀ	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	_			UNKWN	-		_	CAN COMM CIRCUIT (U1000)	
PDM E/R	No indication	1	UNKWN	UNKWN	_	_	_	-	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	

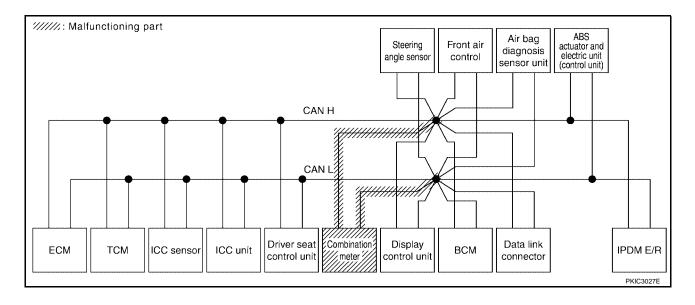


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Case 11
Check combination meter circuit. Refer to <u>LAN-131</u>, "Combination Meter Circuit Inspection" .

						CAN	I DIAG	SUPP	ORT M	VTR							
SELECT SYSTEM screen		Initial	Transmit					Rece	ive diaç	nosis					SELF-DIAG RESULTS		
			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R			
ENGINE		-	UNKWN	1	UNKWN	1	UNKWN		_	UNKWN	-	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)	
A/T		NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_		_	-	UNKWN	_	CAN COMM CIRCUIT (UN000)		
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_	
AUTO DRIVE POS.	No indication	-	1	-	UNKWN	-	_	UNKWN	-	UNKWN	_	-	_	-	CAN COMM CIRCUIT (UN000)	-	
Display control unit		NG	UNKWN	UNKWN	-	_	_	NNKWN	_	UNKWN		UNKWN	_	UNKWN	_	_	
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	_	NNKWN	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
ABS		NG	UNKWN	UNKWN	UNKWN	_	UNKWN				UNKWN	-		_	CAN COMM CIRCUIT (U1000)		
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_	
																PKIC3529E	



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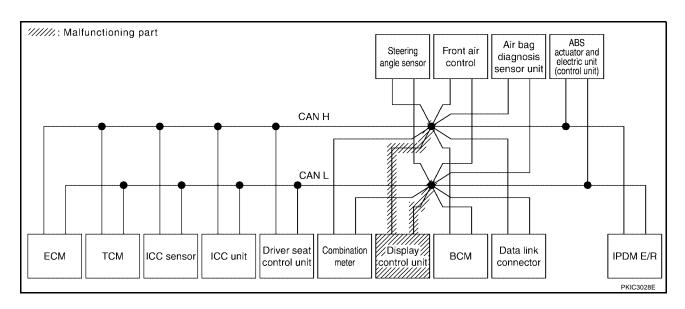
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Case 12
Check display control unit circuit. Refer to <u>LAN-131</u>, "<u>Display Control Unit Circuit Inspection</u>" .

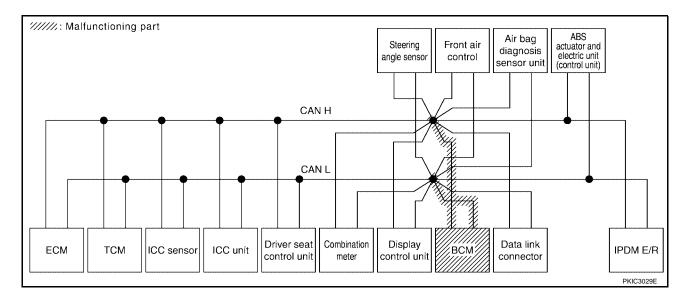
						CAN	I DIAG	SUPP	ORT MI	NTR							
SELECT SYSTEM	SELECT SYSTEM screen		Transmit					Rece	ive diaç	nosis		,			SELF-DIAG RESULTS		
		Initial diagnosis	s diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	J. S. S. ATTEGOLIO		
ENGINE	1	1	UNKWN	1	UNKWN	1		UNKWN	_	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
A/T		NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	_		UNKWN	-	CAN COMM CIRCUIT (U1000)	_	
ICC	1	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	ı	-	UNKWN	-	-	UNKWN	1	CAN COMM CIRCUIT (U1000)	_	
AUTO DRIVE POS.	No indication	-	ı	ı	UNKWN	-	ı	UNKWN	_	UNKWN	ı	_	-	-	CAN COMM CIRCUIT (U1000)	_	
Display control unit	-	NG	UNK WN	NNK W W	-	1	_	NNKWN	_	NNKWN		UNKWN	_	UN K ₩N	_	_	
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	UNKWN	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	1	UNKWN	UNKWN	ł	I	1	1	UNKWN	UNKWN	1	-	UNKWN	-	_	_	
ABS		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-			UNKWN	_		_	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	_	-	UNKWN	_	-	_	1	CAN COMM CIRCUIT (U1000)	_	
							_									PKIC3530E	



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Case 13
Check BCM circuit. Refer to <u>LAN-132</u>, "BCM Circuit Inspection" .

	CAN DIAG SUPPORT MNTR																	
						OAI	I DIAG		ive diag						CELE DIAC DECLUTO			
SELECT SYSTEM screen		Initial diagnosis	Transmit is diagnosis	ECM	ТСМ	ICC SENSOR	ICC/e4WD		DISPLAY		STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELF-DIAG RESULTS			
ENGINE		_	UNKWN	-	UNKWN	1	UNKWN		_	UNK W N	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)		
A/T		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN			_		UNKWN	-	CAN COMM CIRCUIT (U1000)	_		
ICC	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	ı	-	NNKWN	-	-	UNKWN	1	CAN COMM CIRCUIT (U1000)	-		
AUTO DRIVE POS.	No indication	-	1	1	UNKWN	-	ı	UNKWN	_	UNKWN	ı	_	-	-	CAN COMM CIRCUIT (UN00)	_		
Display control unit		NG	UNKWN	UNKWN	-	_	_	UNKWN	_	NNKWN	_	UNKWN	-	UNKWN	_	_		
BCM	No indication	NG	UNKWN	UNKWN	1	I	1	UNKWN	_	_	-	_	1	UNKWN	CAN COMM CIRCUIT (U1000)	_		
HVAC	No indication	-	UNKWN	UNKWN	1	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	_	_		
ABS		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	1			UNKWN		-	-	CAN COMM CIRCUIT (U1000)			
IPDM E/R	No indication		UNKWN	UNKWN	-	_	_	_	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (UN000)			
																PKIC3531E		



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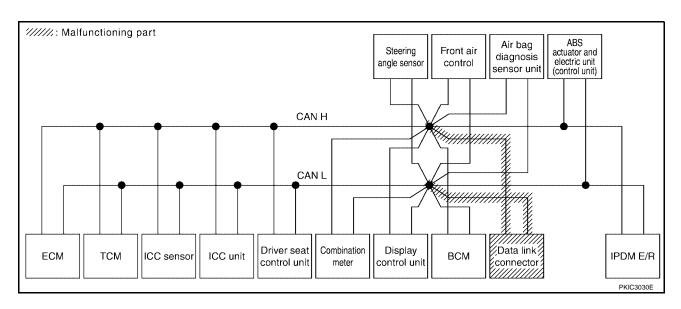
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Case 14
Check data link connector circuit. Refer to <u>LAN-132</u>, "<u>Data Link Connector Circuit Inspection</u>" .

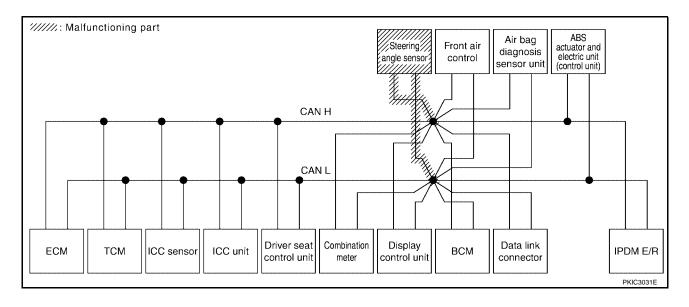
						CAN	I DIAG	SUPP	ORT MI	VTR						
SELECT SYSTEM	screen	Initial	Transmit				,		ive diaç	nosis		·			SELE-DIAG	RESULTS
		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	-	UNKWN	-		UNKWN	_	UNKWN	1	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	ı	_	UNKWN	-	-	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	ı	-	UNKWN	-	ı	UNKWN	_	UNKWN	ı	_	-	-	CAN COMM CIRCUIT (U1000)	_
Display control unit		NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	1	1	1	UNKWN	_	-	-	_	1	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	1	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	_	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	1			UNKWN		-	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
																PKIC3532E



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Case 15
Check steering angle sensor circuit. Refer to <u>LAN-133</u>, "Steering Angle Sensor Circuit Inspection" .

						CAN	I DIAG	SUPP	ORT M	VTR						
SELECT SYSTEM	1 screen	Initial	Transmit					Rece	ive diaç	nosis					SELF-DIAG	RESULTS
OLLLOT OTOTEN	1 301 0011		diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OEEI DING	THEODERO
ENGINE	1	1	UNKWN	1	UNKWN	_	UNKWN		_	UNKWN	1	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	-	-	UNKWN	-	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	1	-	UNKWN	-	-	UNKWN	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	-
Display control unit		NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN		UNKWN		UNKWN	-	
ВСМ	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				UNK ≪ N	-		-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	-	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
																PKIC3533E



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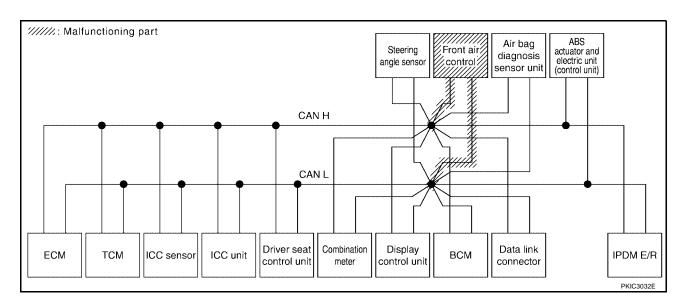
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Case 16
Check front air control circuit. Refer to <u>LAN-133</u>, "Front Air Control Circuit Inspection" .

						CAN	I DIAG	SUPP	ORT M	VTR						
SELECT SYSTEM	A screen	Initial	Transmit					Rece	ive diaç	nosis					SELF-DIAG	RESULTS
OLLLOT OTOTER		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OEE! DIFTE	TIEGOETO
ENGINE		_	UNKWN	1	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)	
ICC	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	1	-	UNKWN	-	_	UNKWN	1	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	1	-	UNKWN	-	-	UNKWN	-	UNKWN	-	_	1	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	UNKWN		UNKWN		UNKWN		UNKWN	_	
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	-	UNKWN	-	_	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	ł	I	1	1	UNKWN	UNKWN	1	-	UNKWN	-	_	ł
ABS		NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_		UNKWN	_		-	CAN COMM CIRCUIT (U1000)	date
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	-	UNKWN	_	_	-	1	CAN COMM CIRCUIT (U1000)	-
																PKIC3534E



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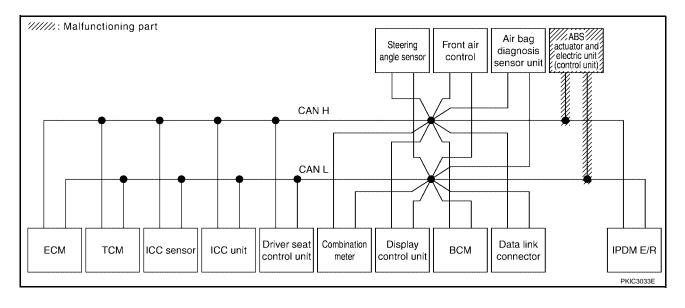
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Case 17

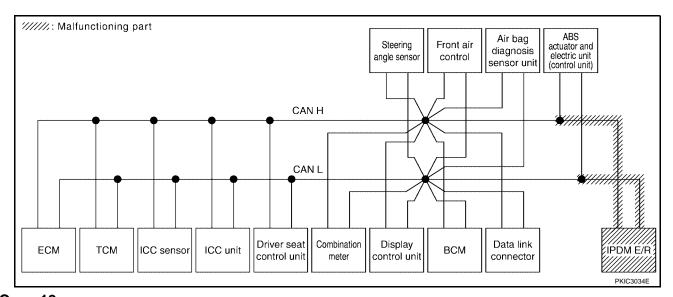
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-134</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

						CAN	I DIAG	SUPP	ORT MI	VTR						
SELECT SYSTEM	1 screen	Initial	Transmit					Rece	ive diaç	nosis					SELF-DIAG	RESULTS
OLLLOT GTOTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	CEEF DIVIC	THEODERO
ENGINE	1	1	UNKWN	-	UNKWN	_		UNKWN	_	UNKWN	_	_	UNK W N	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN 01)
A/T		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	_				UNKWN	-	CAN COMM CIRCUIT (UN00)	
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	_	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
AUTO DRIVE POS.	No indication	_	-	_	UNKWN	_	_	UNKWN	_	UNKWN	_	_	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit		NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN		UNKWN		UNKWN	-	
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	1	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-
ABS		*	UNK WN	NNK W N	NNK W W	_	NNKWN	_	_		Π NKW N	_		-	CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	-	_	_	UNKWN	_	_	-	1	CAN COMM CIRCUIT (U1000)	-
																PKIC3535E



Case 18
Check IPDM E/R circuit. Refer to <u>LAN-135</u>, "IPDM E/R Circuit Inspection" .

						CAN	DIAG	SUPP	ORT MI	NTR						
SELECT SYSTEM	1 screen	Initial	Transmit					Rece	ive diaç	nosis					SELF-DIAG	RESULTS
OLLLOT OTOTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	1	UNKWN	-	UNKWN	1		UNKWN	_	UNKWN	_	_	UNKWN	OINE	CAN COMM CIRCUIT (U1000)	(U N 01)
A/T		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN			_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC	1	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	ı	_	UNKWN	-	-	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	ı	-	UNKWN	-	-	UNKWN	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	_
Display control unit		NG	UNKWN	UNKWN	-	-	-	UNKWN	_	UNKWN		UNKWN		UNK W N	-	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	_	UNKWN	-	-	_	_	_	UNK W N	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	1	-	-	-	UNKWN	UNKWN	-	-	UNKWN	-	_	_
ABS		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	1			UNKWN		-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	-	_	UNKWN	_	_	-	1	CAN COMM CIRCUIT (UN 000)	
																PKIC3536E



Case 19
Check CAN communication circuit. Refer to <u>LAN-135</u>, "CAN Communication Circuit Inspection" .

						CAN	I DIAG		ORT MI							
SELECT SYSTEM	screen	Initial	Transmit		,		,	Rece	ive diaç	nosis					SELF-DIAG	RESULTS
OLLLO TOTAL		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI DINO	TIEGGET G
ENGINE	1	1	Ω NKW N	1	UNK WN	1	NNKWN		_	NNKWN	1	1	UNK WN	NNKWN	CAN COMM CIRCUIT (UN000)	CAN COMMCIRCUIT (UN01)
A/T	_	NG	UNKWN	UNK W N	-	_	UNK WN	NNKWN	_	-	_	1	Π IN W N	_	CAN COMM CIRCUIT (UN000)	
ICC	-	NG	UNK WN	UNKWN	UNK WN	UNK.WN	ı	ł	-	UNK WN	-	ł	UN ∳ WN	-	CAN COMM CIRCUIT (UN000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (UN000)	-
Display control unit		NG	UNK WN	NNKW N	_	_	_	NNKWN	_	NKWN	_	NNKWN	-	UNK NN	_	
всм	No nditation	NG	UNKWN	UNKWN	-	-	1	UNKWN	_	-	-	1	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC i	No indication	1	UNKWN	UNKWN	1	I	1	ŀ	UNKWN	UNKWN	-	1	UNKWN	-	-	-
ABS		*	UNK WN	UNKWN	UNK WN	_	NNKWN	_			NNKWN	_		_	CAN COMM CIRCUIT (UN000)	
IPDM E/R	No.	-	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT	

Revision: November 2009 LAN-77 2006 QX56

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Case 20

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-137</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection"</u>.

						CAN	I DIAG		ORT M							
SELECT SYSTEM	1 screen	Initial	Transmit					Rece	ive diag	nosis					SELE-DIAG	RESULTS
OLLLOT OTOTER		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPUN E/K		
ENGINE	1	_	UNKWN	1	UNK W N	_		UNKWN	_	UNKWN	1	_	UN K AN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (UN 01)
A/T		NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ICC	1	NG	UNKWN	UNKWN	UNK ₩N	UNKWN	1	ı	-	UNKWN	-	-	UNK WN	I	CAN COMM CIRCUIT (U. 000)	1
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	_	-	UNKWN	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (UN00)	-
Display control unit		NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN		UNKWN		UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	-	UNKWN	_	_	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	-	Π ΙΚ ΑΝ	ı	_	-
ABS		NG	UNKWN	UNKWN	UNKWN	_	UNKWN	1			UNKWN		1	1	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	-		UNKWN	_	_	_	1	CAN COMM CIRCUIT (U1000)	-
																PKIC3538E

Case 21

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-137, "IPDM E/R Ignition Relay Circuit Inspection"</u>.

						CAN	I DIAG		ORT MI							
SELECT SYSTEM	1 screen	Initial	Transmit					Rece	ive diag	nosis					SELF-DIAG	RESULTS
OLLLOT GTOTEN	1 301 0011		diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	III .	TIEGOETO
ENGINE	1	_	UNKWN	1	UNKWN	1		UNKWN	_	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	_	_	_	_	_	_	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U. 000)	
ICC	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	-	-	UNKWN	-	-	UNKWN	1	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	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	-	UNKWN	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	_	-	UNKWN	ı	_	-
ABS	-	NG	UNKWN	1	UNKWN	-	-	_			_	_	-	1	CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	_		UNKWN	_	_	_	1	CAN COMM CIRCUIT (U1000)	
																PKIC3539E

CAN SYSTEM (TYPE 3)

CAN SYSIEM (TYPE 3)	
	[CAN]
CAN SYSTEM (TYPE 3)	PFP:23710
Component Parts and Harness Connector Location	UKS004T3
Refer to LAN-26, "Component Parts and Harness Connector Location".	
Schematic	UKS004T4
Refer to LAN-27, "Schematic" .	
Wiring Diagram — CAN —	UKS004T5
Refer to LAN-28, "Wiring Diagram — CAN —" .	
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Check Sheet

NOTE:

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

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit				F	eceive	diagnos	is				SELE-DIAG	RESULTS
OLLEGI GIGIEN	1 0010011	diagnosis		ECM	тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OEEI BING	THEODETO
ENGINE	-		UNKWN		UNKWN	UNKWN	-	UNKWN	1	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U1001)
A/T	1	NG	UNKWN	UNKWN	_	UNKWN	-	-	J	_	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	1	_	_	UNKWN	_	_	_
ALL MODE AWD/4WD	١	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	-	I	_	-	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)	_

Cymptoms.		

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

Display control unit Transl	ation Sheet: Rewrite the following	names, and put a check mark on the a	bove 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	ВСМ	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

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

Revision: November 2009 LAN-81 2006 QX56

CHECK SHEET RESULTS (EXAMPLE)

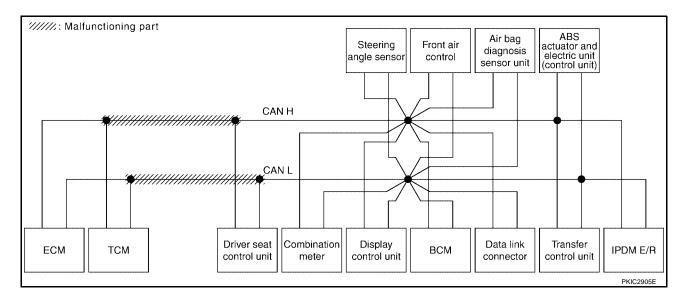
NOTE:

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 <u>LAN-124</u>, "Inspection Between TCM and <u>Driver Seat Control Unit Circuit"</u>.

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit				F	eceive	diagnos	is				SELF-DIAG	BESUITS
OLLEGI GIGIEN			diagnosis	ECM	тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLL: DIVE	THEODERO
ENGINE		_	UNKWN	_	UNKWN	UNK ₩N	_	n uk wu	1	-	Ω ΝΚ ΩΝ	Π ΙΚ ΜΝ	Π ΝΚ ΜΝ	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	_	UNK WN	_	_	_	-	Π ΝΚ ΜΝ	Π ИΚ ΜИ	-	CAN COMM CIRCUIT (UN 00)	-
AUTO DRIVE POS.	No indication	-	-	-	UNK WN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (UN 000)	-
Display control unit		NG	UNKWN	UNK W N	-	UNKWN	_	UNKWN	_	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNK WN	-	UNKWN	-	-	_	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNK W N	-	1	UNKWN	UNKWN	ſ	ŀ	-	UNKWN	-	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 00)	-
ABS	-	NG	UNKWN	UNK WN	UNK WN	_	_	_	UNKWN	-	UNKWN	-	_	CAN COMM CIRCUIT (UN 00)	-
IPDM E/R	No indication	_	UNKWN	UNK WN	_	_	_	UNKWN	1	_	_	-	_	CAN COMM CIRCUIT (UN000)	_
														·	PKIC3499E



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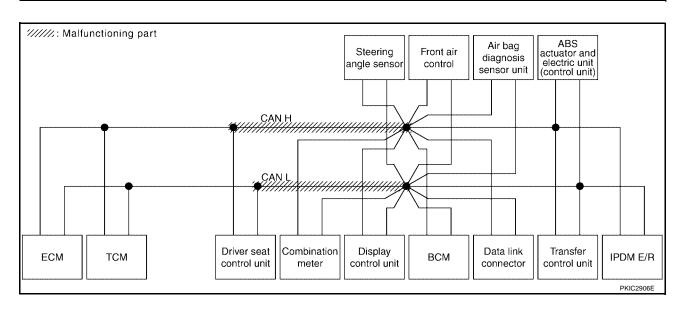
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Case 2

Check harness between driver seat control unit and data link connector. Refer to <u>LAN-126</u>, "Inspection <u>Between Driver Seat Control Unit and Data Link Connector Circuit"</u>.

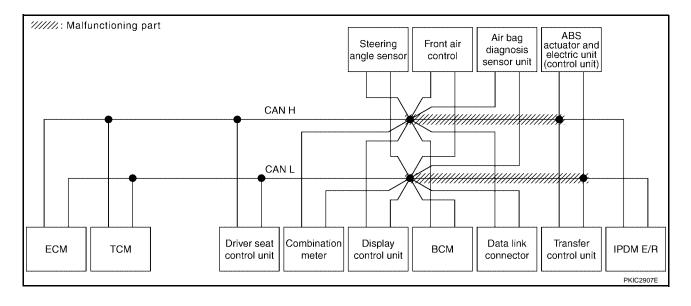
						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit				F	eceive	diagnos	is				SELF-DIAG	RESULTS
OLLLOT OTOTEIN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		-	UNKWN	-	UNKWN	UN K ₩N	_	NNR WN	1	-	Π ΛΚ ΑΝ	UN K ₩N	UN K ₩N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A/T	_	NG	UNKWN	UNKWN	_	UNK WN	_	_	_	_	Π ΝΚ ΜΝ	Ω NK ₩N	-	CAN COMM CIRCUIT (UN 00)	-
AUTO DRIVE POS.	No indication	-	-	_	UNKWN	UNKWN	_	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (UN 00)	-
Display control unit		NG	UNKWN	UNK W N	_	UNKWN	_	UNKWN	_	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNK WN	-	UNKWN	-	-	_	-	-		UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	-	UNKWN	UNKWN	-	1	UNKWN	UNKWN	ſ	-	-	UNKWN	_	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNK W N	-	_	_	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 00)	_
ABS	_	NG	UNKWN	UNK WN	Ω ΝΚ ⁄⁄ΩΝ	_	-	_	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	-	UNKWN	UNK WN	_	_	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (UN 00)	
															PKIC3500E



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Case 3
Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-127, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	screen	Initial	Transmit				F	eceive of	diagnos	is				SELF-DIAG	RESULTS
OLLEOT OTOTEM			diagnosis		TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DING	TIEGGETG
ENGINE		-	UNKWN	1	UNKWN	UNKWN	_	UNKWN	_	_	UN K ₩N	UN K ₩N	UN K ₩N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	-	UN K ₩N	UNK WN	-	CAN COMM CIRCUIT (UN00)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	_	-	-	-	-	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	-	-	UN K ₩N	-	_
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	-	-	Π ΙΚ (ΜΝ	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	Ŧ	UNKWN	UNKWN	1	-	UNKWN	UNKWN	1	-	1	UNK WN	-	-	-
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
ABS	_	NG	UNKWN	UNKWN	UNK WN	-	_	_	NNK WN	_	UNKWN	_	_	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	-	UNKWN	_	-	_	_	_	CAN COMM CIRCUIT (UN000)	
·															PKIC3501E



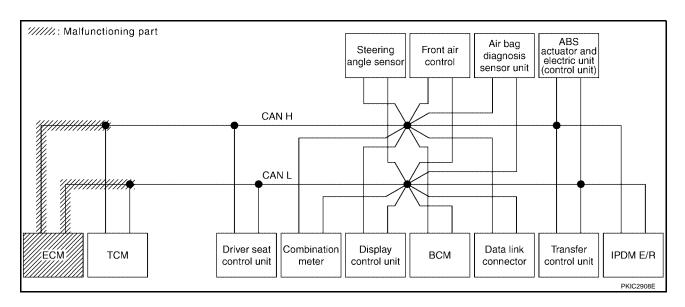
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Case 4
Check ECM circuit. Refer to <u>LAN-128</u>, "ECM Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	l screen	Initial	Transmit				F	eceive (diagnos	is				SELF-DIAG	RESULTS
OLLEGI GIGIEN			diagnosis	ECM	тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OEEI DIAC	TIEGGETG
ENGINE		_	UNKWN		UNK WN	UNK WN	-	n uk wu	_	-	Ω ΝΚ ΩΝ	Π ΙΚW Ν	Π ΝΚ ΜΝ	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (U. 301)
A/T		NG	UNKWN	UNK WN	-	UNKWN	_	_	1	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U. 200)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit		NG	UNKWN	UNK WN	-	UNKWN	_	UNKWN	_	UNKWN	-	-	UNKWN	-	_
BCM	No indication	NG	UNKWN	UNK WN	-	UNKWN	-	-	_	-	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	1	ŀ	UNKWN	UNKWN	ſ	ŀ	-	UNKWN	-	_	-
ALL MODE AWD/4WD	No indication	_	UNKWN	UNK WN	UNKWN	-	_	_	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 00)	_
ABS	_	NG	UNKWN	UNK WN	UNKWN	-	_	_	UNKWN	-	UNKWN	-	_	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	-	UNKWN	UNK WN	_	_	-	UNKWN	_	_	_	_		CAN COMM CIRCUIT (UN00)	_
															PKIC3502E

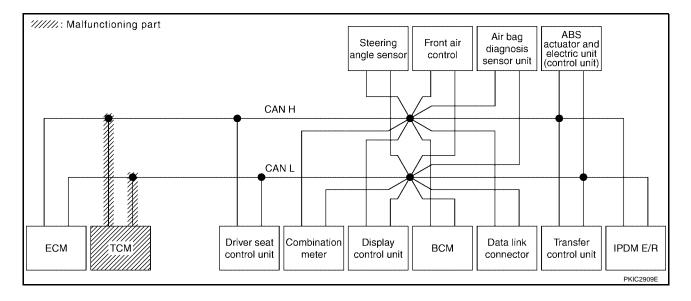


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Case 5
Check TCM circuit. Refer to <u>LAN-129</u>, "TCM Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 ccroon	Initial	Transmit					leceive (is				SELF-DIAG	RESULTS
OLLEGI GIGILIV			diagnosis		TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		_	UNKWN		UNK W N	UNKWN	_	UNKWN	1	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNK WN	_	UNK WN	_	_	_	-	UNK WN	n uk wu	-	CAN COMM CIRCUIT (UN 00)	_
AUTO DRIVE POS.	No indication	-	-	-	UN K WN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (UN00)	_
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	ŀ	-	-	UNKWN	-	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 00)	_
ABS	-	NG	UNKWN	UNKWN	UNK WN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	-	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_
															PKIC3503E



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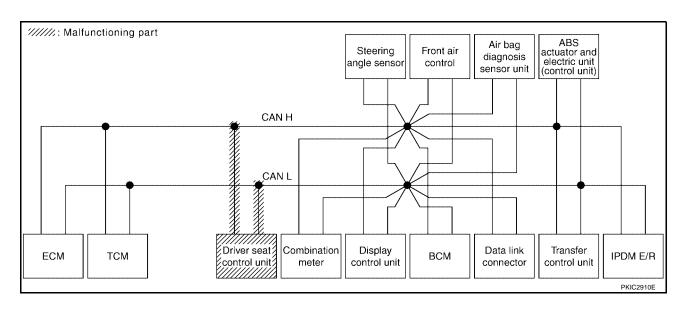
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Case 6
Check driver seat control unit circuit. Refer to <u>LAN-130</u>, "<u>Driver Seat Control Unit Circuit Inspection</u>" .

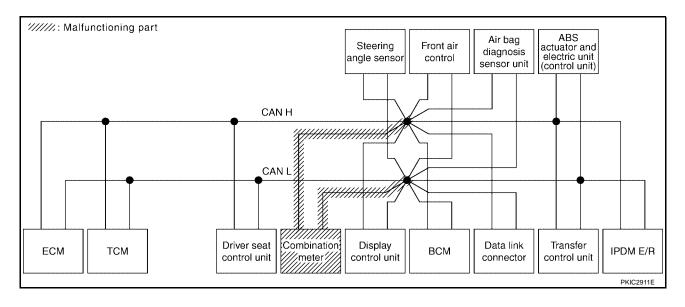
						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit					eceive o		is				SELE-DIAG	RESULTS
OLLEGI GIGIEN		diagnosis			тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OEEI BING	TIEGOLIO
ENGINE		-	UNKWN	_	UNKWN	UNKWN	_	UNKWN	1	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U1001)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	_	UNKWN	UNKWN	_	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U.00)	_
Display control unit		NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	Ŧ	UNKWN	UNKWN	1	-	UNKWN	UNKWN	ſ	ŀ	-	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



LAN

Case 7
Check combination meter circuit. Refer to <u>LAN-131</u>, "Combination Meter Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	screen	Initial	Transmit				F	eceive (diagnos	is				SELE-DIAG	RESULTS
GEEEGT GTGTEIN		diagnosis			тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OEEI DIVIC	TIEGOLIO
ENGINE		_	UNKWN	_	UNKWN	∩ N MN	_	UNKWN	1	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U M 01)
A/T	_	NG	UNKWN	UNKWN	-	UNK WN	_	_	_	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U. 200)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNK WN	-	UNKWN	-	-	-	_	-	CAN COMM CIRCUIT (U.000)	-
Display control unit		NG	UNKWN	UNKWN	-	UNK WN	_	UNKWN	_	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNK WN	-	-	ł	-	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	Ŧ	UNKWN	UNKWN	1	ŀ	UNKWN	UNKWN	ŀ	-	-	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	1	_	_	-	_	CAN COMM CIRCUIT (U1000)	
															PKIC3505E



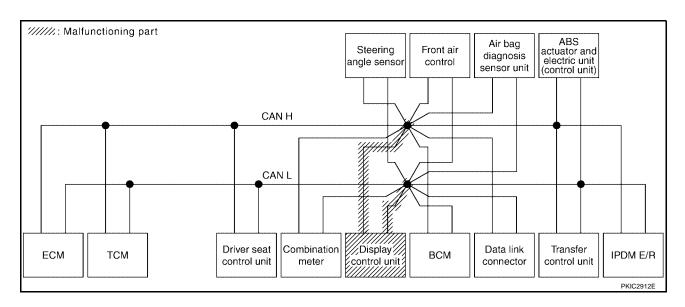
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Case 8
Check display control unit circuit. Refer to <u>LAN-131</u>, "<u>Display Control Unit Circuit Inspection</u>" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit			,		eceive		is				SELE-DIAG	RESULTS
OLLEGI GIGIEN			diagnosis		TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OEEI BING	TIESOLIS
ENGINE		-	UNKWN	1	UNKWN	UNKWN	_	UNKWN	1	-	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	-	-	I	UNKWN	UNKWN	-	UNKWN	I	ł	-	ŀ	-	CAN COMM CIRCUIT (U1000)	_
Display control unit		NG	UNK W N	UNKWN	_	UNK WN	_	n uk wu	_	NAK AN	_	-	Π ΙΚ ΜΝ	_	
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	1	-	n uk wu	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	1	_	_	UNKWN	1	_	_	-	-	CAN COMM CIRCUIT (U1000)	_
															PKIC3506E

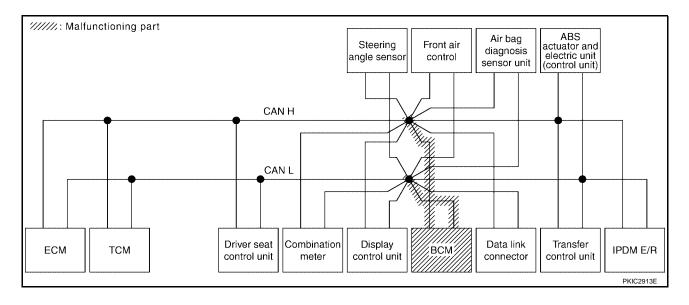


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Case 9
Check BCM circuit. Refer to <u>LAN-132</u>, "BCM Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	l screen	Initial	Transmit					Receive		is				SELF-DIAG	RESULTS
OLLLOT GTGTEN			diagnosis		TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TILOULIO
ENGINE		_	UNKWN	_	UNKWN	UNKWN	_	UNK WN	_	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A/T		NG	UNKWN	UNKWN	-	UNKWN	-	-	_	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	-	n uk wu	-	-	-	-	-	CAN COMM CIRCUIT (UN 00)	-
Display control unit	-	NG	UNKWN	UNKWN	_	UNKWN	_	UNK WN	_	UNKWN	_	_	UNKWN	_	
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	_	UNKWN	UNK WN	-	-	-	UNKWN	-	-	ł
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	_	_	_	∩NK ₩N	_	-	-	_	-	CAN COMM CIRCUIT (UN 00)	_
															PKIC3507E



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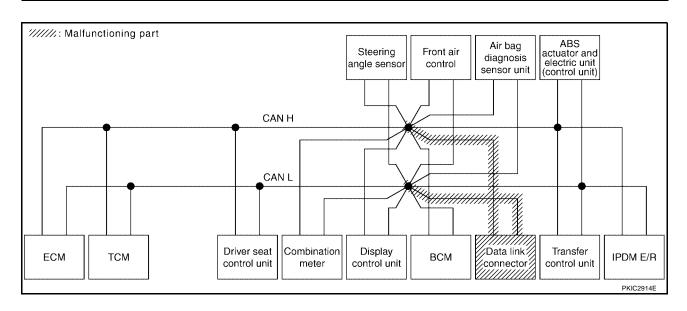
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Case 10

Check data link connector circuit. Refer to LAN-132, "Data Link Connector Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit				F	eceive (diagnos	is				SELE-DIAG	RESULTS
OLLLOT OTOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOGETO
ENGINE	-	-	UNKWN	1	UNKWN	UNKWN	_	UNKWN	-	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	1	NG	UNKWN	UNKWN	-	UNKWN	_	_	1	1	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	1	UNKWN	-	1	UNKWN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	_	-	-	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ł	UNKWN	UNKWN	ı	-	UNKWN	UNKWN	I	ł	-	UNKWN	-	-	I
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)	_



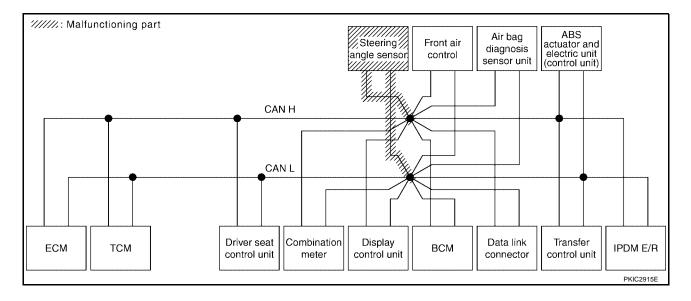
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Case 11
Check steering angle sensor circuit. Refer to <u>LAN-133</u>, "Steering Angle Sensor Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	l screen	Initial	Transmit					Receive		is				SELF-DIAG	RESULTS
OLLEGI GIGIEN			diagnosis		тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOGLIO
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	-	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	-	UNKWN	UNKWN	-	_	UNKWN	UNKWN	ŀ	-	-	UNKWN	-	_	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	_	_	-	UNK WN	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 00)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	NNR WN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_
															PKIC3509E



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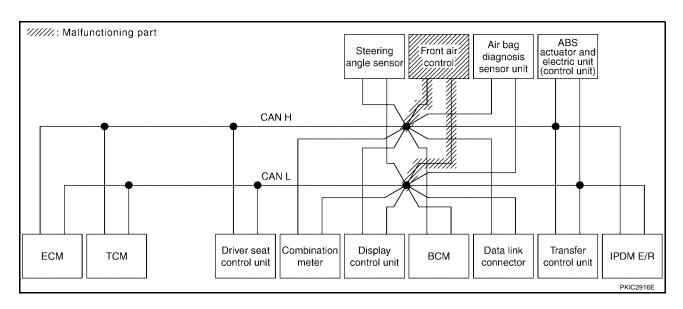
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Case 12
Check front air control circuit. Refer to <u>LAN-133</u>, "Front Air Control Circuit Inspection" .

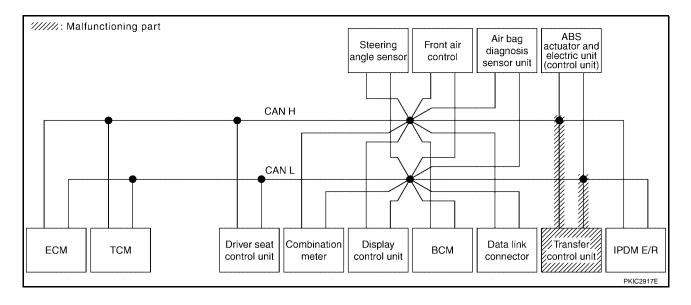
						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit			,		eceive		is				SELE-DIAG	RESULTS
OLLEGI GIGIEN		diagnosis			тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OEE, DIVIC	TIEGOLIO
ENGINE			UNKWN	1	UNKWN	UNKWN	_	UNKWN	1	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U1001)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	+	+	ŀ	UNKWN	UNKWN	-	UNKWN	ŀ	-	-	Ī	-	CAN COMM CIRCUIT (U1000)	-
Display control unit		NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	Ω NKW N	_	-	UNKWN	_	
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	Ŧ	UNKWN	UNKWN	1	ŀ	UNKWN	UNKWN	ſ	-	-	UNKWN	-	_	-
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	1	_	_	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



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Case 13
Check transfer control unit circuit. Refer to <u>LAN-134</u>, "<u>Transfer Control Unit Circuit Inspection</u>" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	screen	Initial	Transmit		,	,		eceive (is				SELE-DIAG	RESULTS
OLLEGI GIGIEN		diagnosis			тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		-	UNKWN	1	UNKWN	UNKWN	_	UNKWN	1	_	n uk wu	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U N 01)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	-	n uk wu	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	1	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Display control unit		NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	Ŧ	UNKWN	UNKWN	-	-	UNKWN	UNKWN	ŀ	-	-	UNKWN	-	_	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U 100)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	n uk wu	_	-	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
															PKIC3511E



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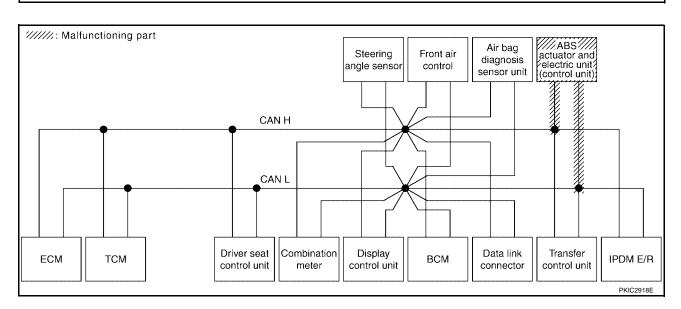
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Case 14

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-134</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

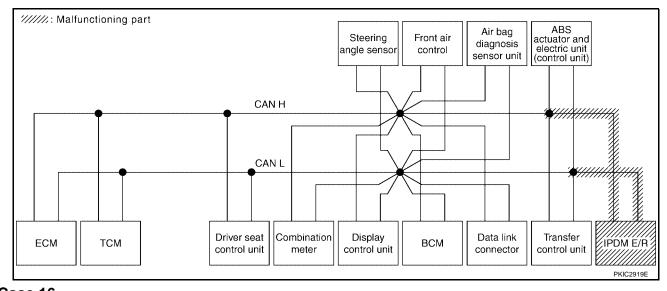
						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit					eceive (is				SELE-DIAG	RESULTS
OLLEGI GIGILIV			diagnosis	ECM	тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	TIEGOETO
ENGINE		_	UNKWN	-	UNKWN	UNKWN	-	UNKWN	_	-	UNKWN	Ω ΝΚ ΦΝ	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	-	UNKWN	Ω ΝΚ ⁄ΜΝ	-	CAN COMM CIRCUIT (U. 300)	_
AUTO DRIVE POS.	No indication	-	-	_	UNKWN	UNKWN	-	UNKWN	-	-	-	-	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	-	-	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	-	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	-	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_	-	-	n nk {\mathbb{\pi}}ν	-	-	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	-	UN K ₩N	-	CAN COMM CIRCUIT (U 100)	_
ABS	_	W	Π ΙΚ ΜΝ	UNK WN	UNK WN	_	_	-	n uk wu	-	n ıκ ₩и	_	-	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	-	UNKWN	_	_	-	_	-	CAN COMM CIRCUIT (U1000)	_
															PKIC3512E



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Case 15
Check IPDM E/R circuit. Refer to <u>LAN-135</u>, "IPDM E/R Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	screen	Initial	Transmit				F	eceive (diagnos	is				SELF-DIAG	RESULTS
OLLEGI GIGILIA			diagnosis		TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	JEEL DING	THEODETO
ENGINE			UNKWN	1	UNKWN	UNKWN	_	UNKWN	-	-	UNKWN	UNKWN	U NK WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
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	-	_	UN K ₩N	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	-	-	-	Π ΛΚ (ΜΝ	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	Ŧ	UNKWN	UNKWN	1	-	UNKWN	UNKWN	1	-	-	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	1	_	_	UNKWN	1	-	-	-	-	CAN COMM CIRCUIT (UN 00)	-
															PKIC3513E



Case 16
Check CAN communication circuit. Refer to <u>LAN-135</u>, "CAN Communication Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit			•	F	eceive	diagnos	is				SELF-DIAG	BESUITS
OLLEGI GIGILIA			diagnosis	ECM	тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OEE, DIVE	THEODETO
ENGINE		_	UNK W N		UN K ₩N	n uk {ων	-	∩NR ₩N	_	-	Ω ΝΚ ΑΝ	n nk {\mathbb{\pi}}\n	Π ΝΚW N	CAN COMM CIRCUIT (UN 00)	CAN COMM CIRCUIT (UN 01)
A/T	-	NG	UNKWN	UNK WN	-	n uk {wu	_	-	-	-	UNK WN	UNK WN	-	CAN COMM CIRCUIT (UN 00)	_
AUTO DRIVE POS.	No indication	_	-	ı	UNKWN	UNKWN	-	UNKWN	-	-	ŀ	-	-	CAN COMM CIRCUIT (UN 00)	_
Display control unit		NG	UNK W N	UNK W N	_	UNK WN	_	∩ NR WN	_	Ω NKW N	1	_	Ω NK WN	_	_
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 (U. 00)	_
ABS	_	₩	UNK ₩N	Π ΙΚ ΜΝ	UNK ₩N	_	_	_	n uk wu	-	Π ΙΚ ΜΝ	_	-	CAN COMM CIRCUIT (U. 000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U. 00)	_
															PKIC3514E

CAN SYSTEM (TYPE 3)

[CAN]

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Case 17

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-137</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection"</u>.

		[CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	A screen	Initial	Transmit					eceive (is				SELF-DIAG	RESULTS
OLLLOT OTOTEN		diagnosis			TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		_	UNKWN		UNK W N	UNKWN	_	UNKWN	1	-	UNKWN	UNK WN	UNKWN	CAN COMM CIRCUIT (UN 00)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	_	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	-	UNK WN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (UN 00)	-
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	-	-	-	UNK ₩N	-	-	-
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNK WN	-	_	_	UNKWN	-	-	UNK WN	-	CAN COMM CIRCUIT (UN 000)	_
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-137, "IPDM E/R Ignition Relay Circuit Inspection" .

						CAN D	IAG SU								
SELECT SYSTEM	l coroon	Initial	Transmit				F	eceive (diagnos	s				SELE-DIAG	RESULTS
OLLLO1 GTGTLW			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI -BIAC	TILOGETO
ENGINE			UNKWN	_	UNKWN	UNKWN	_	UNKWN	ı	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	_	-	_	_	_	_	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 00)	-
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	-	_	-	_	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	1	UNKWN	UNKWN	ı	-	UNKWN	UNKWN	-	-	ł	UNKWN	-	-	Ŧ
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	1	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	_	UNKWN	-	_	-	_	-	-	-	-	CAN COMM CIRCUIT (UN 00)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	-	UNKWN	I	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

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CAN SYSTEM (TYPE 4)

CAN SYSTEM (TYPE 4) Component Parts and Harness Connector Location Refer to LAN-26, "Component Parts and Harness Connector Location" Schematic Refer to LAN-27, "Schematic" Wiring Diagram — CAN —

Refer to LAN-28, "Wiring Diagram — CAN —" .

CAN SYSTEM (TYPE 4)

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Check Sheet UKS004TA

NOTE:

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

						С	AN DI		PPOR								
SELECT SYSTEM	1 screen	Initial	Transmit					Re	ceive	diagno	sis					SELF-DIAG	RESULTS
			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		_	UNKWN	-	UNKWN	-	UNKWN	UNKWN	_	UNKWN	-	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	-	-	-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	_
ICC	_	NG	UNKWN	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	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	1	1	UNKWN	_	1	1	-	1	I	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	1	1	ŀ	-	UNKWN	UNKWN	1	ı	ŀ	UNKWN	-	_	_
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	1	1	-	_	1	UNKWN	1	1	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	1	UNKWN	-	-	1	UNKWN	1	UNKWN	1	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	_	_	_	UNKWN	-	-	_	1	_	CAN COMM CIRCUIT (U1000)	_

Symptoms :			

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

Display control unit Transla	ation Sheet: Rewrite the following	names, and put a check mark on the a	bove 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	всм	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

PKIC3518E

Revision: November 2009 LAN-99 2006 QX56

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

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CHECK SHEET RESULTS (EXAMPLE)

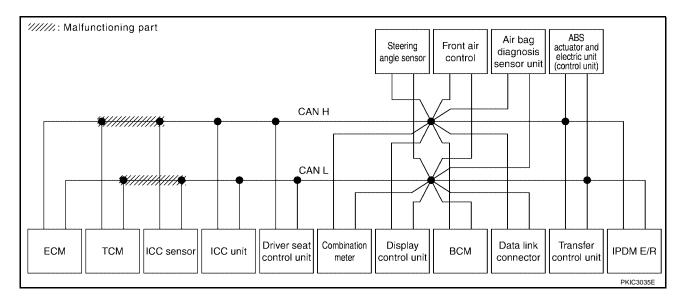
NOTE:

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

Case 1

Check harness between TCM and ICC sensor. Refer to <u>LAN-123</u>, "Inspection Between TCM and ICC Sensor <u>Circuit"</u>.

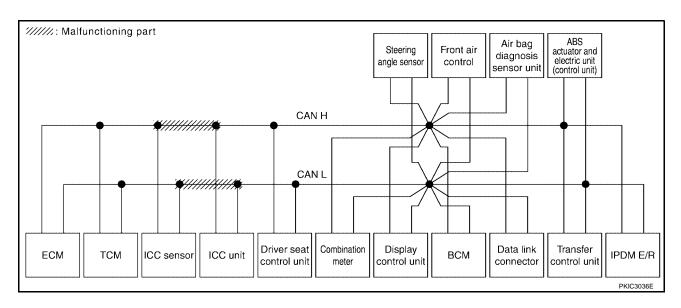
						С	AN DI	AG SU	PPOR	T MNT	R						
SELECT SYSTEM	1 screen	Initial	Transmit					Re	ceive	diagno	sis					SELE-DIAG	RESULTS
OLLLOT GTOTEN			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	ł	UNKWN	-	UNKWN	I	_	UNK W N	-	UNK WN	-	ŀ	UNKWN	UNK W N	nnk w u	CAN COMM CIRCUIT (U1000)	(U M 01)
A/T	1	NG	UNKWN	UNKWN	-	_	UNKWN	UNK W N	-	I	_	ı	n uk wu	n ik wi	-	CAN COMM CIRCUIT (U 100)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNKWN		1		UNKWN		CAN COMM CIRCUIT (UN 00)	
AUTO DRIVE POS.	No indication	1	-	-	UNKWN	-	-	UNKWN	-	UNKWN	_	1	_	_	-	CAN COMM CIRCUIT (U. 00)	_
Display control unit	1	NG	UNKWN	UNKWN	-	_	-	UNKWN	-	UNKWN	-	UNKWN	-	1	UNKWN	-	_
ВСМ	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 (U. 300)	_
ABS	-	NG	UNKWN	UNKWN	UNK W N	_	UNKWN	-	-	1	UNKWN	-	UNKWN	_	-	CAN COMM CIRCUIT (U. 00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (UN00)	



Case 2

Check harness between ICC sensor and ICC unit. Refer to <u>LAN-125</u>, "Inspection Between ICC Sensor and ICC Unit Circuit" .

						С	AN DI	AG SU	PPOR'	TMNT	R						
SELECT SYSTEM	1 screen	Initial	Transmit					Re	eceive o	diagno	sis					SELF-DIAG RESULTS	
OLLLOT GTGTEN			sidiagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	I	UNKWN	I	UNKWN	l		UNK WN	1	UNK W N	-	1	nnk wu	UNK W N	nnk w u	CAN COMM CIRCUIT (U1000)	CAN COMM CIRC (UN 01)
A/T	1	NG	UNKWN	UNKWN	1	_	UNKWN	UNK W N	-	1	-	-	UNK WN	UNK W N	-	CAN COMM CIRCUIT (UN000)	_
ICC	-	NG	UNKWN	NKWN	n nk wn	UNKWN	_	-	-	UNKWN	-	-	_	UNKWN	-	CAN COMM CIRCUIT (UN000)	_
AUTO DRIVE POS.	No indication	1	1	1	UNK W N	-	-	UNKWN	-	UNKWN	-	I	-	I	-	CAN COMM CIRCUIT (UN000)	_
Display control unit	-	NG	UNKWN	NNKW N	-	-	_	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNK WN	1	_	-	UNKWN	_	1	-	1		1	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	-	UNKWN	NKWN	-	-	-	-	UNKWN	UNKWN	-	ŀ	_	UNKWN	-	_	_
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNK W N	_	-	-	-	-	unkwn	-	1	UNKWN	-	CAN COMM CIRCUIT (UN000)	-
ABS	ı	NG	UNKWN	UNKWN	n r w	-	UNKWN	-	-	1	UNKWN	1	unkwn	ı	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	1	UNKWN	UNKWN	-	-	_	-	_	UNKWN	-	1	-	1	-	CAN COMM CIRCUIT (UN00)	_



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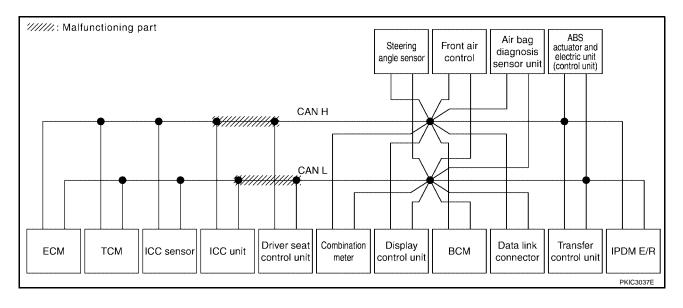
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Case 3

Check harness between ICC unit and driver seat control unit. Refer to <u>LAN-126</u>, "Inspection Between ICC Unit and Driver Seat Control Unit Circuit" .

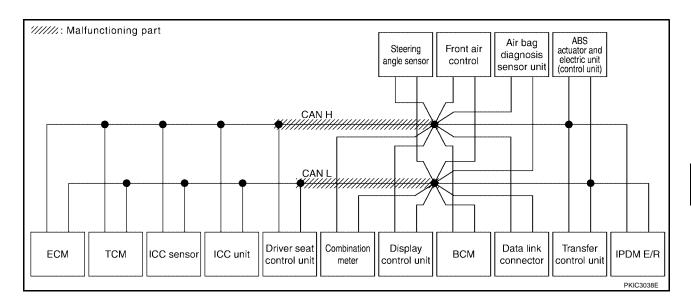
						С	AN DI	AG SU	PPOR	TMNT	R						
SELECT SYSTEM	l screen	Initial	Initial Transmit					Re	eceive	diagno	sis					SELF-DIAG RESULTS	
OLLLO1 GTGTLN			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLIVBIAC	THEODETO
ENGINE	-	_	UNKWN	ł	UNKWN	ł		UNK W N	-	UNK W N	ı	I	UNK W N	UNK W N	n ik wi	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U. 001)
A/T	_	NG	UNKWN	UNKWN	1	-	UNKWN	UNK W N	-	I	1	ı	nnk a n	n ik wi	-	CAN COMM CIRCUIT (UN 00)	_
ICC		NG	UNKWN	UNKWN	UNKWN	UNKWN	_	-	-	UNK W N	-	_	-	nnk w u	-	CAN COMM CIRCUIT (UN 00)	-
AUTO DRIVE POS.	No indication	-	1	1	UNK W N	1	_	UNKWN	-	UNKWN	1	1	ı	I	-	CAN COMM CIRCUIT (UN000)	<u></u>
Display control unit	_	NG	UNKWN	NNKW N	-	-	-	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNK WN	1	-	_	UNKWN	_	1	-	1		_	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	-	UNKWN	NKWN	-	-	-	-	UNKWN	UNKWN	-	-	-	UNKWN	-	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNK W N	-	_	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
ABS	1	NG	UNKWN	UNKWN	UNK W N	-	UNKWN	-	-	I	UNKWN	I	UNKWN	1	-	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	-	-	-	UNKWN	1	_	-	ı	_	CAN COMM CIRCUIT (U 200)	



Case 4

Check harness between driver seat control unit and data link connector. Refer to <u>LAN-126</u>, "Inspection <u>Between Driver Seat Control Unit and Data Link Connector Circuit"</u>.

						С	AN DI	AG SU	PPOR'	T MNT	R						
SELECT SYSTEM	A coroon	Initial	Initial Transmit		Receive diagnosis									SELF-DIAG RESULTS			
OLLLO1 STOTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODEIG
ENGINE	_	1	UNKWN	ł	UNKWN	l	UNKWN		-	UNK W N	-	-	UNK WN	UNK W N	nnk w n	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCI (UN01)
A/T	_	NG	UNKWN	UNKWN	-	-	UNKWN	UNK W N	-	-	_	-	Π ΝΚ ΜΝ	UNK W N	-	CAN COMM CIRCUIT (UN 00)	_
ICC		NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	-	UNK W N	_	_	-	UNK W N		CAN COMM CIRCUIT (UN 000)	_
AUTO DRIVE POS.	No indication	1	-	-	UNKWN	-	-	UNKWN	_	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (UN000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	_	_	UNKWN	-	UNKWN	-	UNKWN	-	_	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNK WN	-	_	_	UNKWN	_	-		_			UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	1	UNKWN	UNKWN	1	-	_	-	UNKWN	UNKWN	_	_	-	UNKWN	-	-	_
ALL MODE AWD/4WD	No indication	ı	UNKWN	n nk wu	UNK W N	-	-	-	-	-	UNKWN	-	+	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
ABS	_	NG	UNKWN	UNKWN	n nk wn	1	UNKWN	-	-	ı	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	_	UNKWN	NNKWN	_		_	_	_	UNKWN	_	_	_			CAN COMM CIRCUIT (UN00)	_



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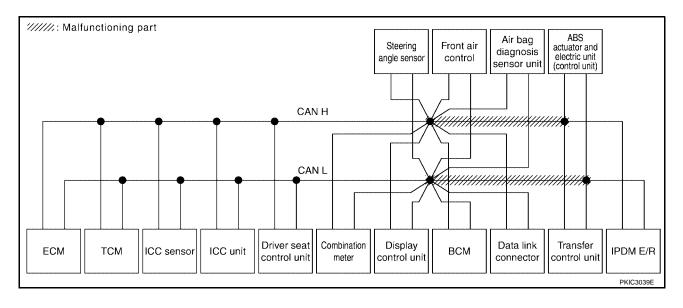
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Case 5

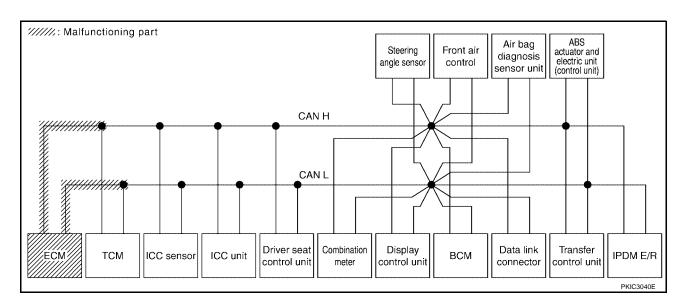
Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-127</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

						С	AN DI	AG SU	PPOR	TMNT	R						
SELECT SYSTEM	1 screen	Initial	Initial Transmit					Re	ceive	diagno	sis					SELF-DIAG RESULTS	
OLLLOT GTGTEN			s diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI BING	TILOULIU
ENGINE	1	I	UNKWN	I	UNKWN	ı		UNKWN	-	UNKWN	1	ŀ	UNKWN	UNK W N	nnk w u	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U. 301)
A/T	_	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	-	-	-	-	Π ΝΚ ΜΝ	U NK ₩N	-	CAN COMM CIRCUIT (UN 00)	_
ICC		NG	UNKWN	UNKWN	UNKWN	UNKWN	_	-	-	UNKWN	-	_	-	UNK % N	-	CAN COMM CIRCUIT (UN 00)	_
AUTO DRIVE POS.	No indication	1	1	1	UNKWN	-	_	UNKWN	-	UNKWN	1	1	_	1	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	_	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	1	-	1	-	_	Π ΙΚΝ Ν	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	1	UNKWN	UNKWN	_	_	_	_	UNKWN	UNKWN	1	1	-	UNK W N	_	-	_
ALL MODE AWD/4WD	No indication	ł	UNKWN	UNKWN	UNKWN	-	-	-	-	ŀ	UNKWN	ı	+	UNKWN	-	CAN COMM CIRCUIT (UN 00)	-
ABS	1	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	I	UNK WN	I	UNKWN	I	-	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	1	UNKWN	UNKWN	_	_	_	-	-	UNKWN	-	_	_	1	_	CAN COMM CIRCUIT (U 100)	



Case 6
Check ECM circuit. Refer to <u>LAN-128</u>, "ECM Circuit Inspection" .

						С	AN DI	AG SU	PPOR'	TMNT	R						
SELECT SYSTEM	1 screen	Initial	Transmit					Re	eceive	diagno	sis					SELF-DIAG	RESULTS
OLLLOT GTGTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLIVBIAC	THEODETO
ENGINE	1	1	UNK WN	ł	UNKWN			UNK VN	-	UNK WN	_	I	UNK WN	UNK W N	nnk w n	CAN COMM CIRCUIT (UN000)	CAN COMM CIRCU (UN 01)
A/T	1	NG	UNKWN	NKWN	1	-	UNKWN	UNKWN	-	-	_	ı	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
ICC	-	NG	UNKWN	NKWN	UNKWN	UNKWN	_	_	-	UNKWN	_	_	_	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
AUTO DRIVE POS.	No indication	ı	1	1	UNKWN	1	_	UNKWN	-	UNKWN	1]	1	1	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	1	NG	UNKWN	NKWN	1	-	_	UNKWN	-	UNKWN	1	UNKWN	1	ı	UNKWN	-	_
всм	No indication	NG	UNKWN	UNK WN	-	_	_	UNKWN	_	-	_	_		_	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	1	UNKWN	UNKWN	1	1	_	-	UNKWN	UNKWN	-	1	1	UNKWN	-	-	_
ALL MODE AWD/4WD	No indication	ı	UNKWN	n nk wu	unkwn	+	-	-	-	I	unkwn	ı	ł	UNKWN	-	CAN COMM CIRCUIT (UN 000)	-
ABS	1	NG	UNKWN	UNKWN	UNKWN	I	UNKWN	-	-	1	UNKWN	I	UNKWN	I	-	CAN COMM CIRCUIT (UN000)	_
IPDM E/R	No indication	-	UNKWN	UNK W N	_	_		_	_	UNKWN	-	_	_	_	_	CAN COMM CIRCUIT (UN00)	_



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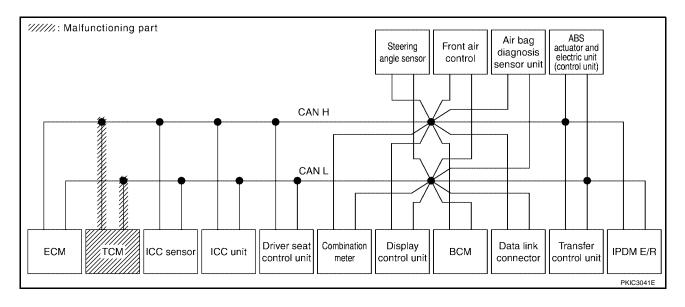
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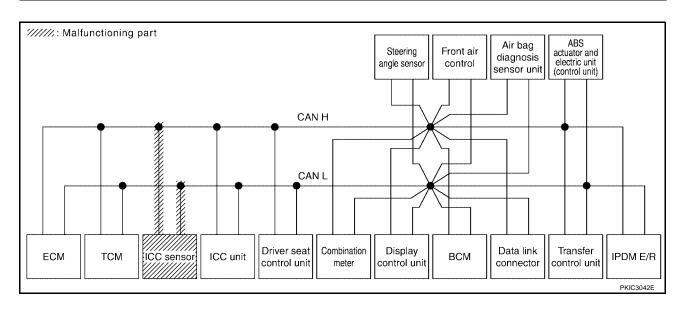
Case 7
Check TCM circuit. Refer to <u>LAN-129</u>, "TCM Circuit Inspection" .

						С	AN DI	AG SU	PPOR'	T MNT	R							
SELECT SYSTEM	screen	Initial	Transmit					Re	eceive	diagno	sis					SELF-DIAG RESULTS		
OLLLOT GTGTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLIVBIAC	THEODETO	
ENGINE	_	ı	UNKWN	H	UNKWN			UNKWN	-	UNKWN	-	I	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCI (UN 01)	
A/T	_	NG	UNKWN	UNKWN	-	-	UNKWN	UNK W N	-	-	-	-	U NK ₩N	Π ΛΚW N	-	CAN COMM CIRCUIT (UN 00)	_	
ICC		NG	UNKWN	UNKWN	nnk a w	UNKWN		-	-	UNKWN	-	-		UNKWN		CAN COMMCIRCUIT (UN00)	_	
AUTO DRIVE POS.	No indication	1	-	-	Ω NK ₩N	-	-	UNKWN	-	UNKWN	-	-	_	1	-	CAN COMM CIRCUIT (UN 00)	_	
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	-	_	
всм	No indication	NG	UNKWN	UNKWN	ı	_	ı	UNKWN	_	-	_	_		1	UNKWN	CAN COMM CIRCUIT (U1000)		
HVAC	No indication	-	UNKWN	UNKWN	-	_	_	_	UNKWN	UNKWN	-	_	-	UNKWN	_	_	_	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNK W N	-	_	-	-	-	unkwn	-	-	UNKWN	_	CAN COMM CIRCUIT (UN00)	-	
ABS	-	NG	UNKWN	UNKWN	Π ΝΚ ΜΝ	-	UNKWN	-	-	-	unkwn	-	UNKWN	I	-	CAN COMM CIRCUIT (UN 00)	_	
IPDM E/R	No indication	-	UNKWN	UNKWN	_		_	_	_	UNKWN	-	_	_	1	_	CAN COMM CIRCUIT (U1000)	_	



Case 8
Check ICC sensor circuit. Refer to <u>LAN-129</u>, "ICC Sensor Circuit Inspection" .

						С	AN DI	AG SU	PPOR'	T MNT	R						
SELECT SYSTEM	Lecroon	Initial	Transmit					Re	ceive	diagno	sis					SELF-DIAG	PESILITS
OLLLO1 STOTEN		diagnosis	Transmit diagnosis	ECM	ТСМ	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SLLI -DIAC	THEODEIG
ENGINE	_	_	UNKWN	ı	UNKWN		UNKWN		ŀ	UNKWN	ı	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	UNKWN	1	-	UNKWN	UNKWN	-	-	1	-	UNKWN	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
ICC		NG	UNKWN	UNKWN	UNKWN	nnk a w		1	-	UNKWN	1	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 00)	_
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	1	_	UNKWN	-	UNKWN	1	1	-	_	1	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	_	UNKWN	_	_
всм	No indication	NG	UNKWN	UNKWN	1	-	-	UNKWN	-	-	-	_			UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	1	1	-	1	UNKWN	UNKWN	1	1	-	UNKWN	-	-	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	+	-	ı	ł	ŀ	UNKWN	-	-	UNKWN	ı	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	I	UNKWN	ı	1	I	UNKWN	-	UNKWN	_	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	_	_	_	UNKWN	-	_	-	_	_	CAN COMM CIRCUIT (U1000)	



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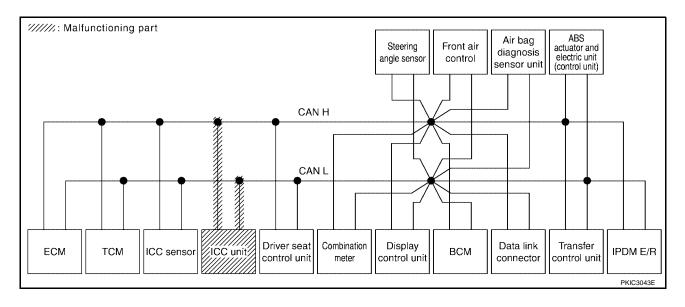
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Case 9
Check ICC unit circuit. Refer to <u>LAN-130</u>, "ICC Unit Circuit Inspection" .

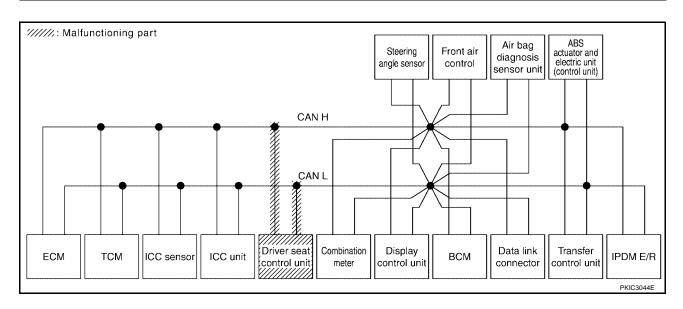
			CAN DIAG SUPPORT MNTR Receive diagnosis														
SELECT SYSTEM	screen	Initial	Transmit	<u> </u>											SELF-DIAG	RESULTS	
OLLLOT OTOTEM		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLL: Diric	TILOGETO
ENGINE	-	-	UNKWN	-	UNKWN	l		UNKWN	-	UNKWN	1	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
4 /T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	_
CC	-	NG	nnk wu	n uk wu	n nk wn	UNKWN	_	-	-	UNK ₩N	-	_	-	n ik wi		CAN COMM CIRCUIT (UN 00)	
AUTO DRIVE POS.	No indication	-	1	1	UNKWN	-	_	UNKWN	-	UNKWN	1	1	ı	I	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	_	-	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	_	_
всм	No indication	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	-	_	_		_	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	UNKWN	_	1	-	UNKWN		_	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	Н	unkwn	-	-	unkwn	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	1	UNKWN	Т	-	ı	UNKWN	-	UNKWN	1	1	CAN COMM CIRCUIT (U1000)	-
PDM E/R	No indication	-	UNKWN	UNKWN				_	_	UNKWN	-	_	-	_		CAN COMM CIRCUIT (U1000)	-



Case 10

Check driver seat control unit circuit. Refer to LAN-130, "Driver Seat Control Unit Circuit Inspection".

SELECT SYSTEM S		Initial diagnosis	Transmit		CAN DIAG SUPPORT MNTR Receive diagnosis												
Т								Re	eceive	diagno	sis					SELF-DIAG	RESULTS
ENGINE			- Mg. 10010	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
	-	-	UNKWN	-	UNKWN	1		UNKWN	-	UNKWN	1	1	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	_
ICC		NG	UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNKWN	_	1	1	UNKWN		CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No. Idioation	_	-	-	UNKWN	1	_	UNKWN	-	UNKWN	_	1	-	_	-	CAN COMM CIRCUIT (UN000)	
Display control unit	-	NG	UNKWN	UNKWN	-	-	_	UNKWN	_	UNKWN	-	UNKWN	-	_	UNKWN	-	-
BCM inc	No idication	NG	UNKWN	UNKWN	ı	I	_	UNKWN	_	-	_	1			UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No idication		UNKWN	UNKWN	-	1	_	_	UNKWN	UNKWN	_	1	1	UNKWN		_	
ΔΙΙ ΜΙΙΙΗ ΔΙΜΙΙΜΑΙΜΙΙΙ	No idication	-	UNKWN	UNKWN	unkwn	ł	-	-	-	-	unkwn	ı	1	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	I	UNKWN	Т	-	ı	UNKWN	I	UNKWN	1	1	CAN COMM CIRCUIT (U1000)	-
IPDM E/R inc	No dication		UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	-			CAN COMM CIRCUIT (U1000)	



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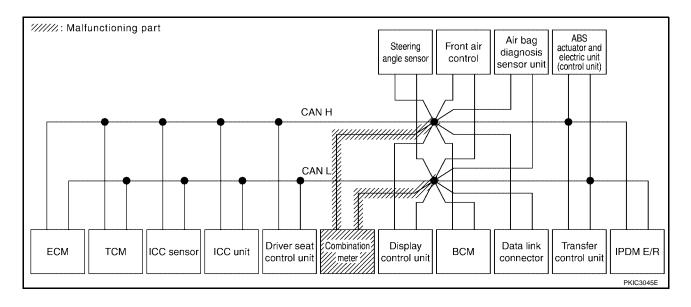
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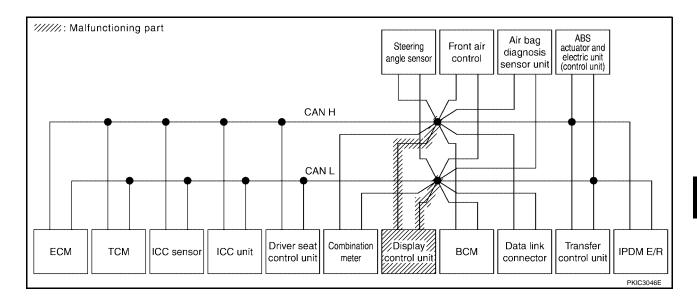
Case 11
Check combination meter circuit. Refer to <u>LAN-131</u>, "Combination Meter Circuit Inspection" .

						С	AN DI	AG SU	PPOR'	TMNT	R						
SELECT SYSTEM	l screen	Initial	Transmit					Re	eceive	diagno	sis					SELF-DIAG	RESULTS
OLLLOT GTGTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN		UNKWN		-	UNKWN	1	1	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN 001)
A/T	_	NG	UNKWN	UNKWN	-	-	UNKWN	UNK W N	-	_	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
ICC		NG	UNKWN	UNKWN	UNKWN	UNKWN	_	-	-	UNKWN	_	1	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	1	-	UNK W N	-	UNKWN	_	1	_	_	1	CAN COMM CIRCUIT (UN 000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	-	_	UNK WN	_	UNKWN	-	UNKWN	-	_	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	-	_	UNK WN	_	_	_	1			UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	-	-	_	_	UNKWN	UNKWN	_	1	-	UNKWN	-	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	unkwn	+	-	-	-	-	unkwn	ı	-	UNKWN	ı	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	I	UNKWN	-	-	-	UNKWN	I	UNKWN	1	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_		_	_	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	<u></u>



Case 12
Check display control unit circuit. Refer to <u>LAN-131</u>, "<u>Display Control Unit Circuit Inspection</u>".

			CAN DIAG SUPPORT MNTR Receive diagnosis														
SELECT SYSTEM	screen	Initial	Transmit					Re	eceive	diagno	sis					SELF-DIAG	RESULTS
OLLLOT OTOTEM			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	1		UNKWN	-	UNKWN	1	1	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A /T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNKWN	1	1	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	1	_	UNKWN	-	UNKWN	1	1	_	_	1	CAN COMM CIRCUIT (U1000)	
Display control unit	-	NG	nnk wu	UNKWN	-	-	_	UNK W N	_	Π INKW N	-	UNK WN	-	_	UNK WN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	ŀ	ł	-	UNKWN	_	1	1	1			UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	_	UNKWN	UNKWN	_	1	_	-	UNKWN	UNKWN	-	_	_	UNKWN	_	_	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	unkwn	1	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	1	UNKWN	-	-	-	UNKWN	-	UNKWN	-	1	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	



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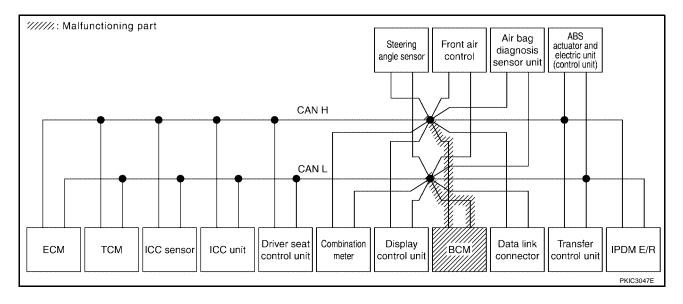
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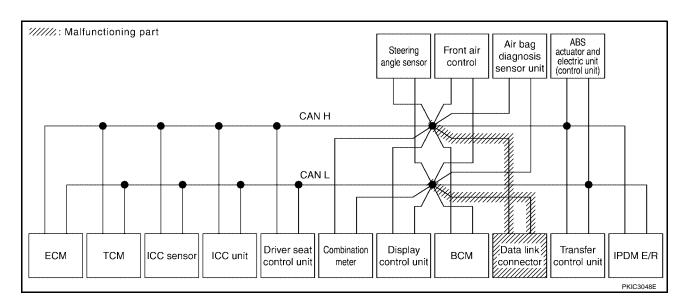
Case 13
Check BCM circuit. Refer to <u>LAN-132</u>, "BCM Circuit Inspection" .

						С	AN DI	AG SU	PPOR	T MNT	R						
SELECT SYSTEM	screen	Initial	Transmit					Re	ceive	diagno	sis					SELF-DIAG	RESULTS
OLLLOT GTOTEN			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOULIU
ENGINE	-	1	UNKWN	_	UNKWN			UNKWN	-	UNKWN	1	1	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRC (UN01)
A/T	_	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC		NG	UNKWN	UNKWN	UNKWN	UNKWN	-	1	-	UNKWN	1	1	-	UNKWN		CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	1	-	_	UNKWN	1	1	UNKWN	_	UNKWN	-	1	-	1	_	CAN COMM CIRCUIT (UN000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	U NK ₩N	-	UNKWN	-	-	UNKWN	-	_
всм	No indication	NG	UNKWN	UNKWN	ı	I	ı	UNKWN	_		_	1		1	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	1	UNKWN	UNKWN	-	1	1	1	UNKWN	UNK W N	1	1	1	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	+	UNKWN	UNKWN	UNKWN	+	_	_	-	-	unkwn	ŀ	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	ł	UNKWN	ı	-	-	unkwn	ŀ	UNKWN	I	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	1	UNKWN	UNKWN	-	1	_	1	_	UNK W N	-	-	_	1	_	CAN COMM CIRCUIT (UN00)	_



Case 14
Check data link connector circuit. Refer to <u>LAN-132</u>, "<u>Data Link Connector Circuit Inspection</u>" .

						С	AN DI	AG SU	PPOR	T MNT	R						
SELECT SYSTEM	1 screen	Initial	Transmit					Re	ceive	diagno	sis					SELF-DIAG	RESULTS
OLLEGI GIGIEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINO	111200210
ENGINE	I	1	UNKWN	I	UNKWN			UNKWN	1	UNKWN	-	ŀ	UNKWN	UNKWN	unkwn	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCI (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	_	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC		NG	UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNKWN		1	-	UNKWN		CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	1	-	-	UNKWN	1	_	UNKWN	_	UNKWN	_	1	1	1	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	1	NG	UNKWN	UNKWN	1	I	-	UNKWN	1	UNKWN	-	UNKWN	1	I	unkwn	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	ŀ	ı	-	UNKWN	_	1		1	1	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	_	_	UNKWN	UNKWN	_	1	1	UNKWN	_	_	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	unkwn	-	-	-	-	-	UNKWN	-	-	unkwn	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	I	UNKWN	Т	-	ı	UNKWN	I	UNKWN	I	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-		_	_	UNKWN	_	_	_	1	-	CAN COMM CIRCUIT (U1000)	_



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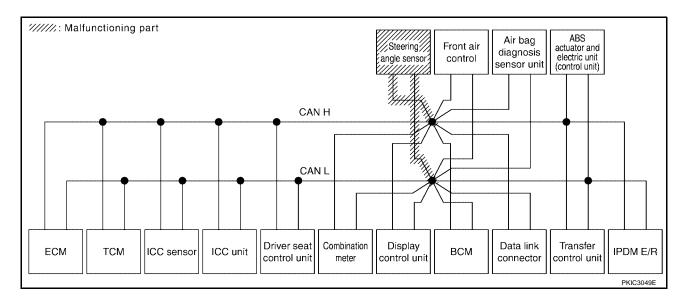
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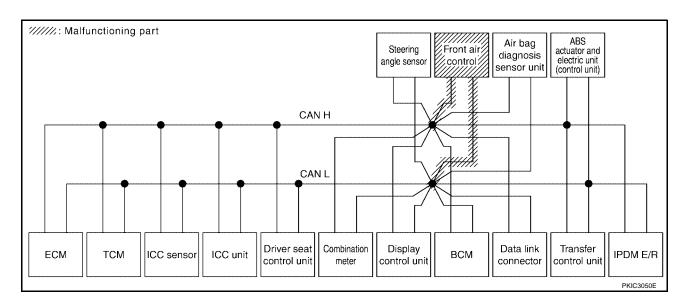
Case 15
Check steering angle sensor circuit. Refer to <u>LAN-133</u>, "Steering Angle Sensor Circuit Inspection" .

						С	AN DI	AG SU	PPOR	T MNT	R						
SELECT SYSTEM	screen	Initial	Transmit					Re	ceive	diagno	sis					SELF-DIAG	RESULTS
OLLLOT GTGTEN			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLL: Diric	TILOULIU
ENGINE	-	1	UNKWN	-	UNKWN			UNKWN		UNKWN	1	-	UNKWN	UNKWN	unkwn	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	_	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	-	-	UNKWN	_	_		UNKWN	-	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	1	-	1	UNKWN	1	_	UNKWN	-	UNKWN	1	_	-	1	-	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	_	-	_	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	-	_
всм	No indication	NG	UNKWN	UNKWN	-	ŀ	_	UNKWN	_	-	-	_		1	UNKWN	CAN COMM CIRCUIT (U1000)	Marian.
HVAC	No indication	-	UNKWN	UNKWN	_	-	_	-	UNKWN	UNKWN	-	_	-	UNKWN	-	-	_
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	+	-	-	-	-	UNK WN	-	1	UNKWN	-	CAN COMM CIRCUIT (UN000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	1	UNKWN	-	-	-	UNK WN	-	UNKWN	I	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	_	-	_	UNKWN	-	_	_	-	-	CAN COMM CIRCUIT (U1000)	-



Case 16
Check front air control circuit. Refer to <u>LAN-133</u>, "Front Air Control Circuit Inspection" .

			CAN DIAG SUPPORT MNTR Receive diagnosis														
SELECT SYSTEM	1 screen	Initial	Transmit					Re	eceive	diagno	sis					SELF-DIAG	RESULTS
OLLLOT GTGTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLIVBIAC	THEODEIG
ENGINE	1	1	UNKWN	H	UNKWN			UNKWN	-	UNKWN	-	I	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	_	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNKWN	_	1		UNKWN		CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	1	_	_	UNKWN	-	_	UNKWN	_	UNKWN	_	1	_	1	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	1	NG	UNKWN	UNKWN	ł	ł	-	UNKWN	-	UNKWN	-	UNK WN	-	I	UNKWN	-	_
ВСМ	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	-	-	1	UNKWN	-	UNKWN	ı	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	_	_	UNKWN	-	_	_	1	_	CAN COMM CIRCUIT (U1000)	_



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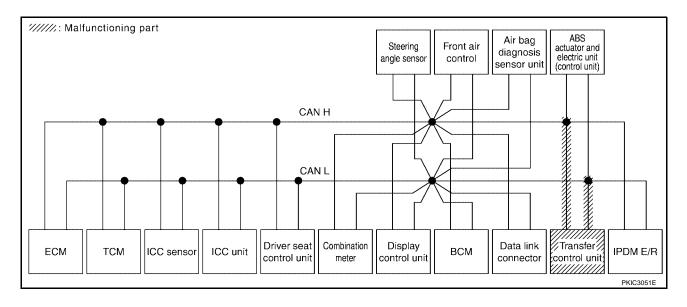
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Case 17
Check transfer control unit circuit. Refer to <u>LAN-134</u>, "<u>Transfer Control Unit Circuit Inspection</u>" .

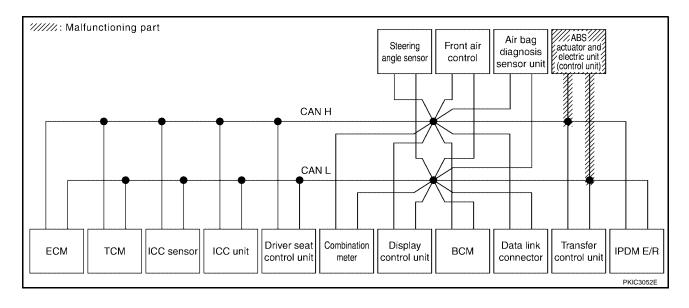
			CAN DIAG SUPPORT MNTR Receive diagnosis														
SELECT SYSTEM	1 cereen	Initial	Transmit					Re	eceive	diagno	sis					SELF-DIAG	PESITE
OLLLOT GTGTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLIVBIAC	THEODETO
ENGINE	-	-	UNKWN	-	UNKWN	l		UNKWN	-	UNKWN	-	-	UNK W N	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U. 001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	Π ΝΚW N	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNKWN	_	-	-	UNKWN		CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	1	1	UNKWN	-	_	UNKWN	-	UNKWN	1	_	1	I	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	1	NG	UNKWN	UNKWN	1	_	_	UNKWN	-	UNKWN	1	UNKWN	1	-	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	_	_	UNKWN	_	1	_	_			UNKWN	CAN COMM CIRCUIT (U1000)	_
	No indication	_	UNKWN	UNKWN	_	_	_	-	UNKWN	UNKWN	_	_	-	UNKWN	_	-	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	unkwn	-	-	-	-	-	unkwn	-	-	unkwn	-	CAN COMM CIRCUIT (UN 00)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	1	UNKWN	-	Π ΙΚ ΝΝ	-	-	CAN COMM CIRCUIT (UN 000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	1	-	CAN COMM CIRCUIT (U1000)	-



Case 18

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-134</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

						С	AN DI	AG SU	PPOR	T MNT	R						
SELECT SYSTEM	1 screen	Initial	Transmit					Re	eceive	diagnos	sis					SELF-DIAG	RESULTS
OLLLOT GTGTEN		diagnosis		ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	THEODETO
ENGINE	1	I	UNKWN	I	UNKWN			UNKWN	-	UNKWN	-	1	UNKWN	UNK W N	unkwn	CAN COMM CIRCUIT (U1000)	CAN COMM CIRC (UN01)
A/T	_	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	n nk wu	-	CAN COMM CIRCUIT (UN 00)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	-	-	UNKWN	-	_	-	nnk w u	-	CAN COMM CIRCUIT (UN 00)	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	_	UNKWN	-	UNKWN	_	1	_	1	_	CAN COMM CIRCUIT (U1000)	<u>-</u>
Display control unit	-	NG	UNKWN	UNKWN	-	-	_	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	1	ı	_	UNKWN	_	1	_	1		1	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	-	UNKWN	UNKWN	-	-	_	-	UNKWN	UNKWN	-	_	-	UNK W N	-	-	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	-	unkwn	-	-	UNK W N	-	CAN COMM CIRCUIT (UN00)	-
ABS	ı	*	UNK WN	UNKWN	n r w	-	UNKWN	-	-	-	UNK W N	1	UNK WN	ı		CAN COMM CIRCUIT (U.000)	_
IPDM E/R	No indication	1	UNKWN	UNKWN	-	1	_	_	_	UNKWN	-	1	_	1	_	CAN COMM CIRCUIT (U1000)	_



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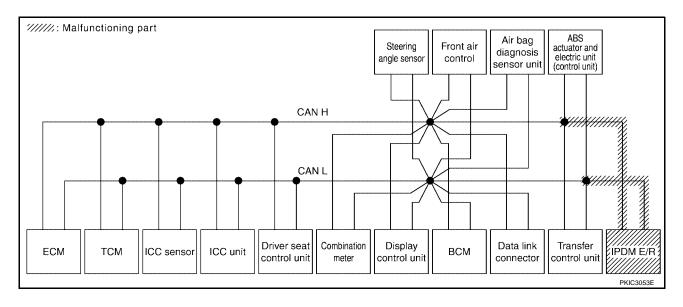
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Case 19
Check IPDM E/R circuit. Refer to <u>LAN-135</u>, "IPDM E/R Circuit Inspection" .

						С	AN DI	AG SU	PPOR	T MNT	R						
SELECT SYSTEM	screen	Initial	Transmit					Re	ceive	diagno	sis					SELF-DIAG	RESULTS
OLLLOT GTGTEN			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI BIAC	TILOGETO
ENGINE	-	ı	UNKWN	I	UNKWN	I .		UNKWN	-	UNKWN	1	1	UNKWN	UNKWN	nnk w u	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U. 001)
A/T		NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC		NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	-	UNKWN	-	_		UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	-	_	UNKWN	_	_	UNKWN	_	UNKWN	_	_	-	1	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	-	_	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	ı	_	UNKWN	_	1	_	_		1	Π INKW N	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	-	UNKWN	I	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	-	_	UNKWN	-	_	_	ŀ	_	CAN COMM CIRCUIT (U 200)	<u></u>



Case 20

Check CAN communication circuit. Refer to LAN-135, "CAN Communication Circuit Inspection" .

						С	AN DI	AG SU	PPOR	T MNT	R						
SELECT SYSTEM	l screen	Initial	Transmit					Re	eceive	diagno	sis					SELF-DIAG	RESULTS
OLLLO1 GTGTEN			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG		AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	+	UNKWN	-	UNKWN	-		UNK VN	-	UNK W N	ı	I	UNK WN	UNK W N	UNK W N	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCU (UN 01)
A/T		NG	UNKWN	UNKWN	_	-	UNKWN	UNK ₩N	-	-	-	-	Π ΝΚ ΜΝ	Π ΛΚW N	-	CAN COMM CIRCUIT (UN 00)	_
ICC		NG	UNK WN	UNKWN	n nk wn	UNKWN	_	_	_	UNK W N	_	_	-	Π ΝΚ ₩Ν	-	CAN COMM CIRCUIT (UN 00)	
AUTO DRIVE POS.	No indication	-	1	-	UNKWN	-	_	UNKWN	_	UNKWN	1	1	-	1	1	CAN COMM CIRCUIT (UN 00)	_
Display control unit	-	NG	UNKWN	UNKWN	1	1	-	UNK W N	-	UNK WN	I	UNK WN	1	I	UNK WN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	-	-	UNKWN	_	1	1	1	1	1	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	UNKWN	-	1	-	UNKWN	-	-	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	-	UNKWN	ı	+	UNKWN	ı	CAN COMM CIRCUIT (UN 00)	_
ABS		¥	UNKWN	UNKWN	UNK W N	-	UNKWN	-	-	-	Π ΝΚ ΝΝ	-	UNK ∜ N	-	-	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_		_	_	CAN COMM CIRCUIT (UN 00)	-

Case 21

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-137}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

						C	AN DI			TMNT							
SELECT SYSTEM	1 screen	Initial	Transmit						ceive	diagno	sis					SELF-DIAG	RESULTS
			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	I	ı	UNKWN	ł	UNKWN	1	UNKWN	UNKWN	ı	UNKWN	1	1	UNKWN	UNK WN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUI (UN)01)
A/T	-	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ICC		NG	UNKWN	UNKWN	UNK N	UNKWN		-	-	UNKWN	_	-		nnk y w		CAN COMM CIRCUIT (UN 00)	
AUTO DRIVE POS.	No indication	-	1	1	UNKWN	-	_	UNKWN	-	UNKWN	1	-	-	1	-	CAN COMM CIRCUIT (UN00)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	_	UNKWN	-	UNKWN	1	UNKWN	-	ı	UNKWN		_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	-	_	UNKWN	_	1	_	_	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	_	UNKWN	UNKWN	1	_	_	_	UNKWN	UNKWN	_	1	-	UNK % N		_	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNK VN	-	-	-	-	I	unkwn	-	+	Π ΙΚ ΜΝ	-	CAN COMM CIRCUIT (UN 000)	_
ABS	1	NG	UNKWN	UNKWN	UNKWN	1	UNKWN	-	-	1	UNKWN	ı	UNKWN	I	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	-	-	_	CAN COMM CIRCUIT (U1000)	

Revision: November 2009 **LAN-121** 2006 QX56

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Case 22

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-137, "IPDM E/R Ignition Relay Circuit Inspection"</u> .

						С	AN DI	AG SU	PPOR	T MNT	R						
SELECT SYSTEM	l screen	Initial	Transmit	Receive diagnosis							SELF-DIAG	RESULTS					
OLLLOT GTOTEN			diagnosis	ECM	TCM	ICC SENSOR	ICC/e4WD	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLIVBIAC	THEODEIG
ENGINE	-	-	UNKWN	-	UNKWN	l		UNKWN	-	UNKWN	1	1	UNKWN	UNKWN	unkwn	CAN COMM CIRCUIT (U1000)	(U1001)
A/T	_	NG	UNKWN	-	-	-	-	-	-	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (UN 00)	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	-	-	UNKWN	-	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	1	1	UNKWN	-	_	UNKWN	-	UNKWN	1	1	ı	I	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	-	_	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	1	_	_	UNKWN	_	-	_	1		1	UNKWN	CAN COMM CIRCUIT (U1000)	
HVAC	No indication	_	UNKWN	UNKWN	-	_	_	_	UNKWN	UNKWN	_	1	1	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	unkwn	-	-	-	-	-	unkwn	ı	1	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	-	UNKWN	-	-	-	-	-	-	ı	-	1	-	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	_	-	-	UNKWN	-	_	1	-	-	CAN COMM CIRCUIT (U1000)	_

[CAN]

TROUBLE DIAGNOSIS FOR SYSTEM

PFP:00000

Inspection Between TCM and ICC Sensor Circuit

UKS004TB

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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

OK or NG

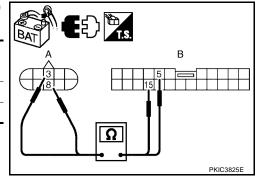
OK >> GO TO 2.

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		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
F9	3	F14	5	Yes
19	8	1 14	15	Yes



OK or NG

OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect ICC sensor connector.
- Check continuity between harness connector (A) and ICC sensor harness connector (B).

	A		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E5	5	E42	2	Yes
E3	15	E42	3	Yes

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to <u>LAN-5, "TROUBLE DIAGNOSES WORK FLOW"</u>.

NG >> Repair harness.

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Revision: November 2009 LAN-123 2006 QX56

[CAN]

Inspection Between TCM and Driver Seat Control Unit Circuit

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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

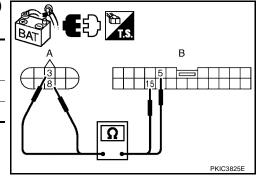
OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

	A		В				
Connector	Terminal	Connector	Terminal	Continuity			
F9	3	F14	5	Yes			
	8	1 14	15	Yes			



OK or NG

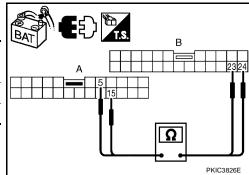
OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

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

	A		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E5	5	E34	24	Yes
LJ	15	L34	23	Yes



OK or NG

OK >> GO TO 4.

NG >> Repair harness.

[CAN]

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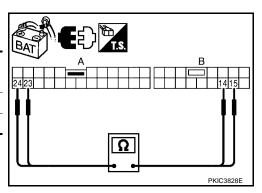
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4. CHECK HARNESS FOR OPEN CIRCUIT

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

	A		В			
Connector	Terminal	Connector	Terminal	Continuity		
B40	24	B37	15	Yes		
D40	23	D31	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 ICC Sensor and ICC Unit Circuit

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
- Harness connector E34
- Harness connector B40

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

	A		В			
Connector	Terminal	Connector	Terminal	Continuity		
E42	2	E34	24	Yes		
	3	L34	23	Yes		

BAT B B PKIC3837F

OK or NG

OK >> GO TO 3.

NG >> Repair harness.

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- 1. Disconnect ICC unit connector.
- 2. Check continuity between harness connector (A) and ICC unit harness connector (B).

	A		В			
Connector	Terminal	Connector	Terminal	Continuity		
B40	24	B13	14	Yes		
D40	23	БІЗ	5	Yes		

BAT ED IS BAT ED IS PKIC3838E

OK or NG

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

NG >> Repair harness.

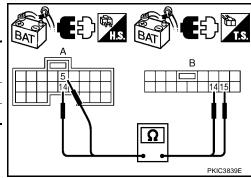
Inspection Between ICC Unit and Driver Seat Control Unit Circuit

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CHECK HARNESS FOR OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect the battery cable from the negative terminal.
- 3. Disconnect ICC unit connector and harness connector B37.
- 4. Check continuity between ICC unit harness connector (A) and harness connector (B).

	A		В			
Connector	Terminal	Connector	Terminal	Continuity		
B13	14	B37	15	Yes		
	5	D37	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

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.

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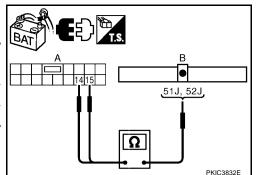
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2. CHECK HARNESS FOR OPEN CIRCUIT

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

	A		В			
Connector	Connector Terminal		Terminal	Continuity		
B37	15	B69	51J	Yes		
	14	509	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	В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	51J	M22	6	Yes
10140	52J	IVIZZ	14	Yes

BAT A BAT IS. S1J, 52J PKIC3830E

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

1. CHECK CONNECTOR

- 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.

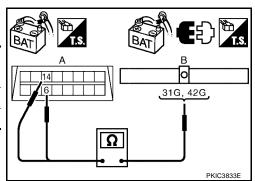
NG >> Repair terminal or connector.

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

	A	В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M22	6	M31	31G	Yes
IVIZZ	14	IVIOI	42G	Yes



OK or NG

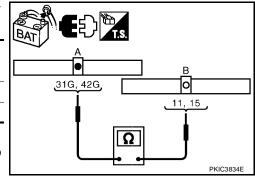
OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

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

	A		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E152	31G	E125	11	Yes
L132	42G	LIZJ	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

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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.

[CAN]

2. CHECK HARNESS FOR OPEN CIRCUIT

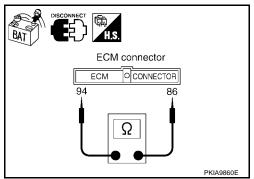
- 1. Disconnect ECM connector.
- 2. Check resistance between ECM harness connector terminals.

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

OK or NG

OK >> Replace ECM.

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



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TCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

A/T assembly connector	Terminal		Resistance (Approx.)
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.

A/T assembly connector Ω SKIA6866E

ICC Sensor Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector. UKS004TX

LAN-129 2006 QX56 Revision: November 2009

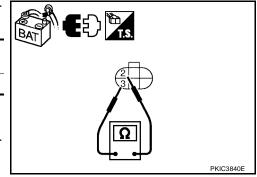
- 1. Disconnect ICC sensor connector.
- Check resistance between ICC sensor harness connector terminals.

ICC sensor connector	Terminal		Resistance (Approx.)
E42	2	3	$54-66~\Omega$

OK or NG

OK >> Replace ICC sensor.

NG >> Repair harness between ICC sensor and harness connector E34.



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ICC Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect ICC unit connector.
- Check resistance between ICC unit harness connector terminals.

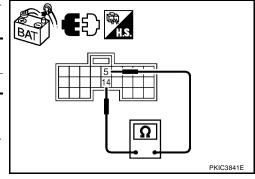
ICC unit connector	Terr	Resistance (Approx.)	
B13	14	5	54 – 66 Ω

OK or NG

NG

OK >> Replace ICC unit.

>> Repair harness between ICC unit and harness connector B34.



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Driver Seat Control Unit Circuit Inspection

1. CHECK CONNECTOR

- 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.

[CAN]

2. CHECK HARNESS FOR OPEN CIRCUIT

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

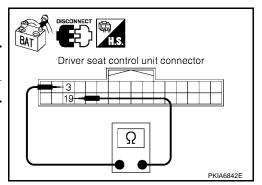
Driver seat control unit connector	Terminal		Resistance (Approx.)
P2	3	19	54 – 66 Ω

OK or NG

OK >> Replace driver seat control unit.

NG >> Repair harness between driver se

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



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Combination Meter Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect combination meter connector.
- 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.

Combination meter connector \[\int \text{\Omega} \\ \te

UKS004TN

Display Control Unit Circuit Inspection

1. CHECK CONNECTOR

- 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.

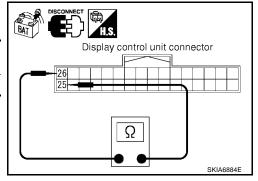
- 1. Disconnect display control unit connector.
- Check resistance between display control unit harness connector terminals.

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.



UKS004TO

BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

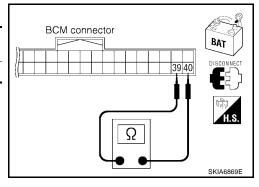
BCM connector	Terminal		Resistance (Approx.)
M18	39	40	54 – 66 Ω

OK or NG

NG

OK >> Replace BCM. Refer to BCS-20, "BCM".

>> Repair harness between BCM and data link connector.



LIKSO04TP

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

- Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 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.

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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

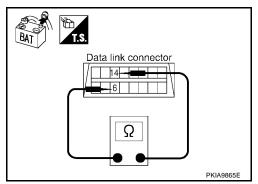
OK or NG

OK

>> Diagnose again. Refer to LAN-5, "TROUBLE DIAG-NOSES WORK FLOW".

NG

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



Steering Angle Sensor Circuit Inspection

1. CHECK CONNECTOR

Turn ignition switch OFF. 1.

2. Disconnect the battery cable from the negative terminal.

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

Disconnect steering angle sensor connector.

Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	3	4	$54-66~\Omega$

OK or NG

OK >> Replace steering angle sensor.

NG

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

Steering angle sensor connector Ω PKIA6838F

UKS004TR

Front Air Control Circuit Inspection 1. CHECK CONNECTOR

1. Turn ignition switch OFF.

- Disconnect the battery cable from the negative terminal.
- 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.

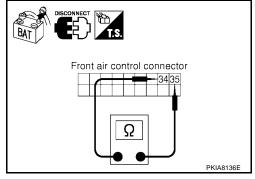
- 1. Disconnect front air control connector.
- Check resistance between front air control harness connector terminals.

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.



UKS004TS

Transfer Control Unit Circuit Inspection

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of 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

- Disconnect transfer control unit connector.
- 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.

Transfer control unit connector

Ω

PKIA6844E

ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

UKS004TT

1. CHECK CONNECTOR

- 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.

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2. CHECK HARNESS FOR OPEN CIRCUIT

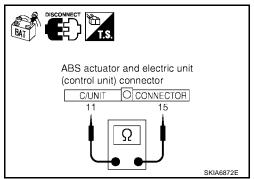
- 1. Disconnect ABS actuator and electric unit (control unit) connector.
- Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

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.



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IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

- 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.
- 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.

PKIA8141E

UKS004TV

CAN Communication Circuit Inspection

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 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.

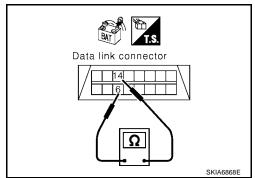
Data link connector	Terminal		Continuity
M22	6	14	No

OK or NG

OK >> GO TO 3.

NG >> • Repair harness.

Change harness if shielded lines are used for the har-



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

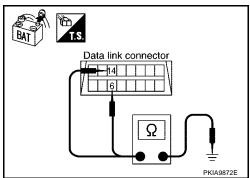
OK or NG

>> GO TO 4. OK

NG

>> • Repair harness.

Change harness if shielded lines are used for the har-



4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

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

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.

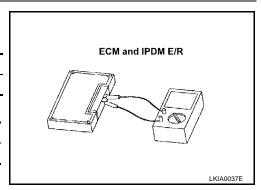
5. CHECK SYMPTOM

- 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.

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



[CAN]

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

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 <u>PG-13, "IGNITION POWER SUPPLY IGNITION SW. IN ON AND/OR START".</u>

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