# SECTION LAN SYSTEM

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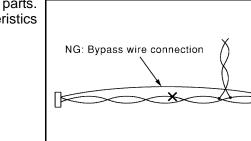
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## PRECAUTIONS

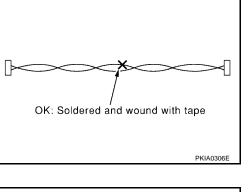
#### PRECAUTIONS PFP:00001 А Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT **BELT PRE-TENSIONER**" UKS0017I The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along В with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual. D 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. Е 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. F Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors. Precautions When Using CONSULT-II UKS0017J When connecting CONSULT-II to data link connector, connect them through CONSULT-II CONVERTER. Н CAUTION: If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication. CHECK POINTS FOR USING CONSULT-II 1 Has CONSULT-II been used without connecting CONSULT-II CONVERTER on this vehicle? If YES, GO TO 2. J If NO, GO TO 5. 2 Is there any indication other than indications relating to CAN communication system in the self-diagnosis results? LAN 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 communica-4. tion. Therefore, erase the self-diagnosis results. Μ 5. Diagnose CAN communication system. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW". Precautions for Trouble Diagnosis UK\$0017K CAN SYSTEM Do not apply voltage of 7.0 V or higher to the measurement terminals. Use the tester with its open terminal voltage being 7.0 V or less. Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

• 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.)



## Precautions for Harness Repair CAN SYSTEM

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



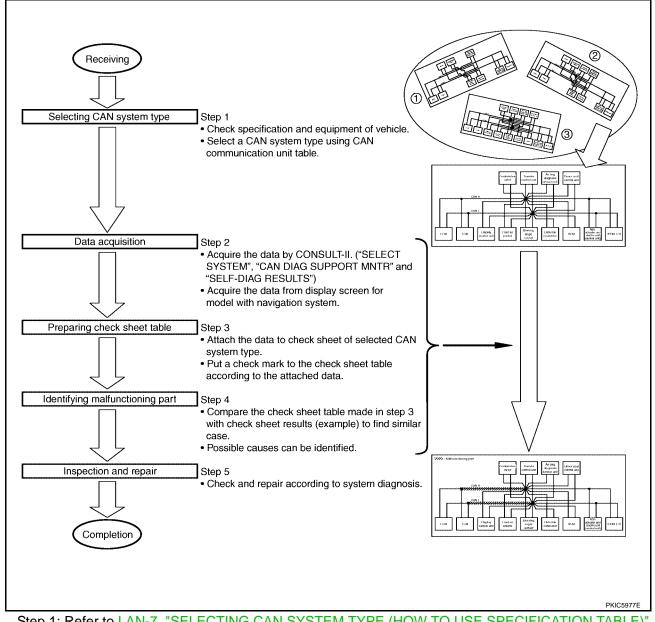
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TROUBLE DIAGNOSES WORK FLOW	PFP:00004	
When Displaying CAN Communication System Errors WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM	UKS003GH	А
CAN communication line is open. (CAN H, CAN L, or both)		В
<ul> <li>CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)</li> </ul>		
<ul> <li>The areas related to CAN communication of unit is malfunctioning.</li> </ul>		
WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM	I	С
<ul> <li>Removal and installation of parts: When the units that perform CAN communication or the s to CAN communication are removed and installed, malfunction may be detected (or DTC o communication may be detected).</li> </ul>		D
• Fuse blown out (removed): CAN communication of the unit may be stopped at such time.		
<ul> <li>Low voltage: If the voltage decreases because of battery discharge when IGN is ON, malfudetected by self-diagnosis according to the units.</li> </ul>	inction may be	Е
		F
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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 <u>LAN-7</u>, "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 <u>LAN-9</u>, "HOW TO USE CHECK SHEET TABLE".
- Step 4: Refer to LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced" .
- Step 5: Refer to LAN-195, "TROUBLE DIAGNOSIS FOR SYSTEM".

## [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.

Body type					Wa	gon				······································	
Axle		2V	VD		4WD(Pa	art time)		4WD(A	ll-mode)		
Engine					VQ4	ODE					Check basic specification of the vehicle.
Transmission					A	л					
Brake control			r		V	00					J
Automatic air conditioner		×	×	×		×		×	×	×	Select " x" if it is model with automatic air conditioner.
Automatic drive positioner			×	×					×	× •	<ul> <li>Select " ×" if it is model with automatic drive positioner.</li> </ul>
Navigation system				×						× •	<ul> <li>Select " ×" if it is model with navigation</li> <li>system.</li> </ul>
CAN system type	1	2	З	4	5	6	7	8	9	10	Which number is selected when
CAN system trouble diagnosis	XX:XX	<u> XX:XX</u>	XX:XX	XX:XX	XX:XX	XXXX	28:28	<u> XX:XX</u>	XX:XX	XX:XX	sequentially selecting from the top of the specification table?
< : Applicable										-	The number is "CAN system type" of the applicable vehicle.

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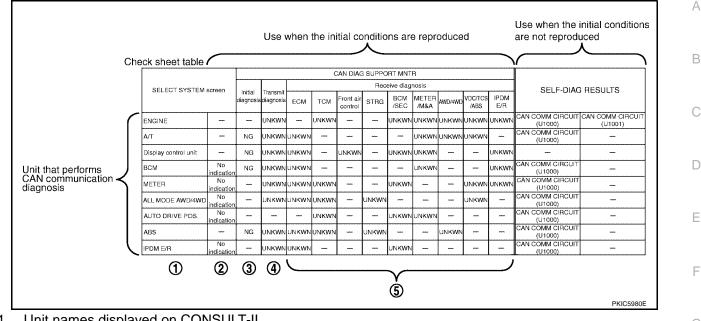
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#### **ACQUISITION OF DATA BY CONSULT-II**

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 "CAN DIAG SUPPORT MONI-TOR Check Sheet". Refer to <u>AV-132</u>, "CAN Communication Line Check".)

Copy "SELECT SYSTEM" scre	een of CONSULT-IL	Check sheet table			
			CAN DIAC SUPPOR	T MNTR	-
SELECT SYSTEM	SELECT SYSTEM	SELECT SYS1EM screen initial fram diagnosodiage	nemiti posisi ECM TCM Front sin STRG	HCM METER AND WO VDC/TCS IPDM /SEC //M&A AND WO /ABS F/H	SELF-DIAG RESULTS
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A/T	IPDM E/B	Art - NG UNR	KWNUNKWN	- UNKWNUNKWNUNKWN -	(U1000) (U1001) CAN COMM CIRCUIT
		Display control unit - NG UNR	KWNUNKWN - UNKWN - U	NKWNUNKWN UNKWI	
ABS	BCM	indication		- UNKWN UNKWI	CAN COMM CRCUIT
AIR BAG	METER	METER No - UNP		NKWN UNKWNUNKWI	(U1000)
IPDM E/R	AUTO DRIVE POS.	ALL MODE AW04WD Indication - UNE AUTO DRIVE POS. No	KWINUNKWN - UNKWN UNKWN U	UNKWN -	CAN COMM CIRCUIT
		10554000		UNKWN	CAN COMM CIRCUIT
BCM	ALL MODE AWD/4WD	IPOM F/R Indication - UNK	KWNUNKWN U	NKWN	CAN COMM CIRCUIT -
		Symptoms :			
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BACK LIGHT COPY	BACK LIGHT COPY				
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1					
AV section			Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM	
	MONITOR Check Sheet" of				
Copy "CAN DIAG SUPPORT N					
CAN Communication Line Che	eck.				
Diagnosis item Screen display	Diagnosis item Screen display		J	L	
CAN_COMM OK NG	CAN_CRIC_5 OK UNKWN	Display control unit fransla Confirmation/Adjustment Display	ation Shoot: Rewrite the following n Check sheet tablo Display	arnes, and put a check mark on th Confirmation/Adjustment Display	
CAN, CRIC, 1 OK UNKWN	CAN, CRIC, 6 OK UNKWN	CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN_CRIC_2 OK UNKWN CAN_CRIC_3 OK UNKWN	CAN_CRIC_7 OK UNKWN CAN_CRIC_8 OK UNKWN	CAN CIRC 1	liansmit diagnosis BCM	CAN CIRC 6	IPDM E/R
CAN, CRIC, 4 OK UNKWN	CAN, CRIC, 9 OK UNKWN	CAN CIRC 2 CAN CIRC 3	ECM	CAN CIRC 7 CAN CIRC 8	IPDM E/R
	/	CAN CIRC 4	Front air control	CAN CIRC 9	-
Y					
			Attach	capy of	
			display co CAN DIAG SUPPORT I	MONITOR Check Sheet	
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SELF-DIAG RESULTS         DTC RESULTS         TIME         CAN COMM CIRCUIT         [U1000]         L         ERASE       PRINT         MODE       BACK         LIGHT       COPY         Copy "CAN DIAG SUPPORT NTR         A/T       PRINT         INITIAL DIAG       OK         TRANSWIT DIAG       OK         VDC/TCS/ABS       UNKWN         VDC/CS/ABS       UNKWN	SELF-DIAG RESULTS         TIME         DTO RESULTS         TIME         NOTO: IS DETECTED. FURTHER TESTING         MAY BE REQUIRED.       Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">TIME         ERASE       PRINT         MODE       BACK       LIGHT       COPY         MODE       BACK       LIGHT       COPY         MODE       BACK       LIGHT       COPY         MODE         BACK       LIGHT       COPY         CAN DIAG SUPPORT MNTR         ABS         INITIAL DIAG       OK         TRANSMIT DIAG       OK	Attach copy of Attach copy of Attach copy of Attach copy of SELF DIAG RESULTS	Artach copy of Auto charge for SELF DIAG RESULTS	Attach copy of BCM Attach copy of ASS SELF DIAG RESULTS Attach copy of BCM CAN DIAG SUPPORT	METER SELI-DIAD RESULTS Attach copy of IPDM F/R SELI-DIAD RESULTS Attach copy of MELER CAN DIAG SUPPORT MNTR IPDM F/R IPDM F/R IP
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SELF-DIAG RESULTS         DTC RESULTS         TIME         CAN COMM CIRCUIT         LIGHT (U1000)         ERASE         PRINT         MODE BACK LIGHT COPY         Copy "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG         NITTAL DIAG         NITTAL DIAG OK         TORY COPY         COPY "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY COPY         CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY CICS/ABS         UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MODAWD       UNKWN         MDIAMD       UNKWN         MDIAMD       UNKWN         MILLIONG         PRINT	SELF-DIAG RESULTS DTC RESULTS TIME UTC RESULTS TIME UTC RESULTS UTC RESULTS TIME UTC RESULTS UTC RESULTS TIME UTC RESULTS TIME TIME UTC RESULTS TIME TIME UTC RESULTS TIME UTC RESULTS TIME UTC RESULTS TIME TI	Attach copy of Attach	Affach copy of Auto DRIVE POS. SELF DIAG RESULTS Antach copy of CAN DIAG SUPPORT MNTR	Attach copy of Attach copy of Attach copy of BCM CAN DIAC SUPPORT Attach copy of CAN DIAC SUPPORT	METER SELI-DIAD RESULTS Attach copy of IPDM F/R SELI-DIAD RESULTS Attach copy of MELER CAN DIAG SUPPORT MNTR IPDM F/R IPDM F/R IP
SELF-DIAG RESULTS         DTC RESULTS         TIME         CAN COMM CIRCUIT         [U1000]         L         ERASE       PRINT         MODE       BACK         LIGHT       COPY         Copy "CAN DIAG SUPPORT INTR         A/T       PRINT         INITIAL DIAG       OK         VDC/TCS/ABS       UNKWN         VDC/TCS/ABS       UNKWN         VDC/CS/ABS       UNKWN         VDC/CS/ABS       UNKWN         WD24WD       UNKWN		Attach copy of Attach copy of ATtach copy of SELF DIAG RESULTS Attach copy of ENDINE CAN DIAG RESULTS Attach copy of ENDINE CAN DIAG SELFOND MATTA	Affach copy of Affach copy of Auto DHIVE POS. SELF DIAG RESULTS	Attach copy of BCM PLAC RESULTS Attach copy of BCM CAN DIAG RESULTS Attach copy of BCM DIAG SUPPORT MNTR	METER SELE-DIAD RESULTS Attach copy of IPDM F/R SELE-DIAD RESULTS Attach copy of MELER CAN DIAG SUPPORT MITE IPDM 5/R IPDM 5/R IP
SELF-DIAG RESULTS         DTC RESULTS         TIME         CAN COMM CIRCUIT         LIGHT (U1000)         ERASE         PRINT         MODE BACK LIGHT COPY         Copy "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG         NITTAL DIAG         NITTAL DIAG OK         TORY COPY         COPY "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY COPY         CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY CICS/ABS         UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MODAWD       UNKWN         MDIAMD       UNKWN         MDIAMD       UNKWN         MILLIONG         PRINT	SELF-DIAG RESULTS DTC RESULTS TIME UTC RESULTS TIME UTC RESULTS UTC RESULTS TIME UTC RESULTS UTC RESULTS TIME UTC RESULTS TIME TIME UTC RESULTS TIME TIME UTC RESULTS TIME UTC RESULTS TIME UTC RESULTS TIME TI	Attach copy of Attach	Affach copy of Auto DRIVE POS. SELF DIAG RESULTS Antach copy of CAN DIAG SUPPORT MNTR	Attach copy of Attach copy of Attach copy of BCM CAN DIAC SUPPORT Attach copy of CAN DIAC SUPPORT	METER SELE-DIAD RESULTS Attach copy of IPDM F/R SELE-DIAD RESULTS Attach copy of MELER CAN DIAG SUPPORT MITE IPDM 5/R IPDM 5/R IP
SELF-DIAG RESULTS         DTC RESULTS         TIME         CAN COMM CIRCUIT         LIGHT (U1000)         ERASE         PRINT         MODE BACK LIGHT COPY         Copy "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG         NITTAL DIAG         NITTAL DIAG OK         TORY COPY         COPY "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY COPY         CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY CICS/ABS         UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MODAWD       UNKWN         MDIAMD       UNKWN         MDIAMD       UNKWN         MILLIONG         PRINT	SELF-DIAG RESULTS         TIME         DTO RESULTS         TIME         FURPHER TESTING         MAY BE REQUIRED         MAY BE REQUIRED         ERASE         PRINT         MODE BACK LIGHT COPY	Attach copy of Attach	Affach copy of Auto DRIVE POS. SELF DIAG RESULTS Antach copy of CAN DIAG SUPPORT MNTR	Attach copy of Attach copy of Attach copy of BCM CAN DIAC SUPPORT Attach copy of CAN DIAC SUPPORT	METER SELE-DIAD RESULTS Attach copy of IPDM F/R SELE-DIAD RESULTS Attach copy of MELER CAN DIAG SUPPORT MITE IPDM 5/R IPDM 5/R IP
SELF-DIAG RESULTS         DTC RESULTS         TIME         CAN COMM CIRCUIT         LIGHT (U1000)         ERASE         PRINT         MODE BACK LIGHT COPY         Copy "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG         NITTAL DIAG         NITTAL DIAG OK         TORY COPY         COPY "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY COPY         CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY CICS/ABS         UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MODAWD       UNKWN         MDDAWD       UNKWN         MDDAWD       UNKWN	SELF-DIAG RESULTS         TIME         DTO RESULTS         TIME         FURTHER TESTING         MAY BE REQUIRED         MAY BE REQUIRED         ERASE         PRINT         MODE BACK LIGHT COPY         MODE BACK LIGHT COPY         MINTR         ABS         MODE SUPPORT MNTR         ABS         INITIAL DIAG OK         INITIAL DIAG OK         CAN DIAG SUPPORT MNTR         ABS         INITIAL DIAG OK         INITIAL DIAG OK <td>Attach copy of Attach copy of Attach</td> <td>Affach copy of Auto DRIVE POS. SELF DIAG RESULTS Antach copy of CAN DIAG SUPPORT MNTR</td> <td>Attach copy of Attach copy of Attach copy of BCM CAN DIAC SUPPORT Attach copy of CAN DIAC SUPPORT</td> <td>METER SELE-DIAD RESULTS Attach copy of IPDM F/R SELE-DIAD RESULTS SELE-DIAD RESULTS SELE-DIAD RESULTS Attach copy of MELER CAN DIAG SUPPORT MATE</td>	Attach copy of Attach	Affach copy of Auto DRIVE POS. SELF DIAG RESULTS Antach copy of CAN DIAG SUPPORT MNTR	Attach copy of Attach copy of Attach copy of BCM CAN DIAC SUPPORT Attach copy of CAN DIAC SUPPORT	METER SELE-DIAD RESULTS Attach copy of IPDM F/R SELE-DIAD RESULTS SELE-DIAD RESULTS SELE-DIAD RESULTS Attach copy of MELER CAN DIAG SUPPORT MATE
SELF-DIAG RESULTS         DTC RESULTS         TIME         CAN COMM CIRCUIT         LIGHT (U1000)         ERASE         PRINT         MODE BACK LIGHT COPY         Copy "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG         NITTAL DIAG         NITTAL DIAG OK         TORY COPY         COPY "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY COPY         CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY CICS/ABS         UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MODAWD       UNKWN         MDDAWD       UNKWN         MDDAWD       UNKWN	SELF-DIAG RESULTS         TIME         DTC RESULTS         TIME         FURPHER TESTING         MAY BE REQUIRED.         LIGHT COPY         MODE BACK LIGHT COPY         MINTIAL DIAG OK         TRANSME DIAG OK         CIM UNKWN         NITIAL DIAG OK         CIM UNKWN         STEG OK         UNKWN         DIAGN	Attach copy of Attach	Affach copy of Auto DRIVE POS. SELF DIAG RESULTS Antach copy of CAN DIAG SUPPORT MNTR	Attach copy of Attach copy of Attach copy of BCM CAN DIAC SUPPORT Attach copy of CAN DIAC SUPPORT	METER SELEDIAD RESULTS Attach copy of IPDM F/R SELE-DIAD RESULTS SELE-DIAD RESULTS SELE-DIAD RESULTS CAN DIAS SUPPORT MRTR CAN DIAS SUPPORT MRTR PORSET PASIT
SELF-DIAG RESULTS         DTC RESULTS         DTC RESULTS         TIME         CAN CORNUT CIRCUIT         LIGHT COPY         Copy "CAN DIAG SUPPORT INTR         AT         INTIAL DIAG SUPPORT INTR         CAN DIAG SUPPORT INTR         AT         ITRANSWIT DIAG         INTIAL DIAG OK         ICOPY "CAN DIAG SUPPORT INTR         AT         IRANSWIT DIAG OK         ICOPY "CAN DIAG SUPPORT INTR         AT         IRANSWIT DIAG OK         ICOPY (CSABS UNKWN         MITERIMA UNKWN         ICOPW ONKWN         MITERIMA UNKWN         ICOPW ONKWN         MITERIMA UNKWN         INKUM         INKWN         INKWN         INKWN         INKWN         INKWN         INKWN         INKWN         INKWN	SELF-DIAG RESULTS         TIME         DTO RESULTS         TIME         FURTHER TESTING         MAY BE REQUIRED         MAY BE REQUIRED         ERASE         PRINT         MODE BACK LIGHT COPY         MODE BACK LIGHT COPY         MINTR         ABS         MODE SUPPORT MNTR         ABS         INITIAL DIAG OK         INITIAL DIAG OK         CAN DIAG SUPPORT MNTR         ABS         INITIAL DIAG OK         INITIAL DIAG OK <td>Attach copy of Attach copy of Attach</td> <td>Affach copy of Auto DRIVE POS. SELF DIAG RESULTS Antach copy of CAN DIAG SUPPORT MNTR</td> <td>Attach copy of Attach copy of Attach copy of BCM CAN DIAC SUPPORT Attach copy of CAN DIAC SUPPORT</td> <td>METER SELEDIAD RESULTS Attach copy of IPDM F/R SELE-DIAD RESULTS SELE-DIAD RESULTS SELE-DIAD RESULTS CAN DIAS SUPPORT MRTR CAN DIAS SUPPORT MRTR PORSET PASIT</td>	Attach copy of Attach	Affach copy of Auto DRIVE POS. SELF DIAG RESULTS Antach copy of CAN DIAG SUPPORT MNTR	Attach copy of Attach copy of Attach copy of BCM CAN DIAC SUPPORT Attach copy of CAN DIAC SUPPORT	METER SELEDIAD RESULTS Attach copy of IPDM F/R SELE-DIAD RESULTS SELE-DIAD RESULTS SELE-DIAD RESULTS CAN DIAS SUPPORT MRTR CAN DIAS SUPPORT MRTR PORSET PASIT
SELF-DIAG RESULTS         DTC RESULTS         TIME         CAN COMM CIRCUIT         LIGHT (U1000)         ERASE         PRINT         MODE BACK LIGHT COPY         Copy "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG         NITTAL DIAG         NITTAL DIAG OK         TORY COPY         COPY "CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY COPY         CAN DIAG SUPPORT INTR         AT         ITRANSMIT DIAG OK         DIGY CICS/ABS         UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MCTERMAA       UNKWN         MODAWD       UNKWN         MDDAWD       UNKWN         MDDAWD       UNKWN	SELF-DIAG RESULTS         TIME         DTC RESULTS         TIME         FURTHER TESTING         FURTHER TESTING         MAY BE REQUIRED.         ERASE         PRINT         MODE BACK LIGHT COPY         MODE OK         TOM DIAG OK         TOM UNKWN         NITIAL DIAG OK         CM UNKWN         NITIAL DIAG OK         COM UNKWN         STING OK         TOM UNKWN	Attach copy of Attach	Affach copy of Auto DRIVE POS. SELF DIAG RESULTS Antach copy of CAN DIAG SUPPORT MNTR	Attach copy of Attach copy of Attach copy of BCM CAN DIAC SUPPORT Attach copy of CAN DIAC SUPPORT	METER SELEDIAD RESULTS Attach copy of IPDM F/R SELE-DIAD RESULTS SELE-DIAD RESULTS SELE-DIAD RESULTS CAN DIAS SUPPORT MRTR CAN DIAS SUPPORT MRTR PORSET PASIT

#### 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 4. 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 5. mark to it if "UNKWN" is displayed on CONSULT-II.
  - "-": Column not used (It is not necessary for CAN communication trouble diagnosis.)

#### NOTE:

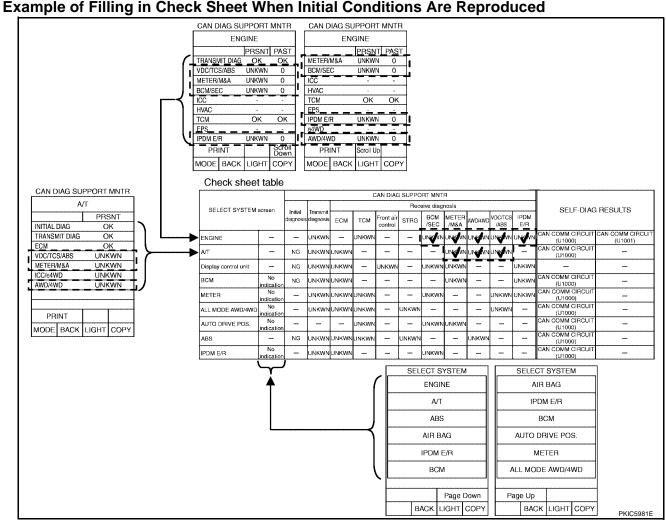
CAN communication diagnosis checks if CAN communication works normally. (Contents of data are not diagnosed.)

- When the initial conditions are reproduced, refer to LAN-10, "Example of Filling in Check Sheet When Ini-L tial 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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 Put a check mark to "No indication" if some of unit names listed on the column of diagnosis system selection screen of a check sheet table are not displayed on "SELECT SYSTEM" screen attached to the check sheet.

#### NOTE:

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

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

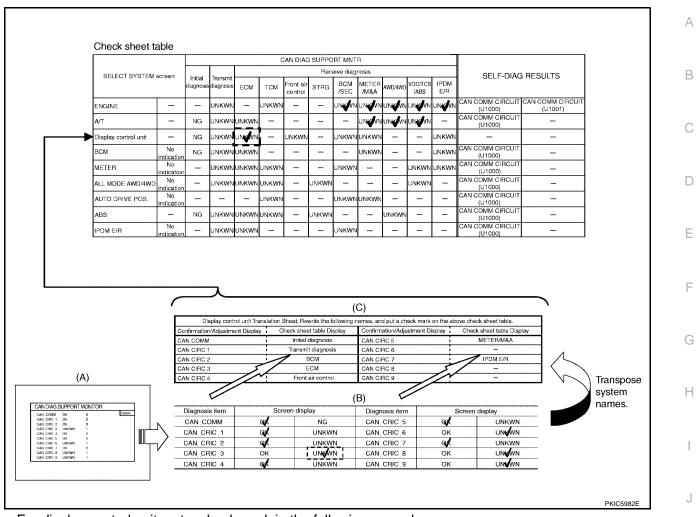
#### NOTE:

In "CAN DIAG SUPPORT MNTR" screen, "UNKWN" is displayed on "VDC/TCS/ABS", "METER/M&A", "BCM/SEC", "IPDM E/R" and "AWD/4WD". 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", "METER/M&A" and "AWD/4WD" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.



- 4. For display control unit, put a check mark in the following procedure.
- a. Copy to "CAN DIAG SUPPORT MONITOR Check Sheet" (B) from the display screen (A). Refer to <u>AV-132</u>, "CAN Communication Line Check".
- b. Read "CAN DIAG SUPPORT MONITOR Check Sheet" (B) with "Display control unit Translation Sheet" (C).
- c. Check "UNKWN" with a check mark. Put a check mark to the check sheet table.

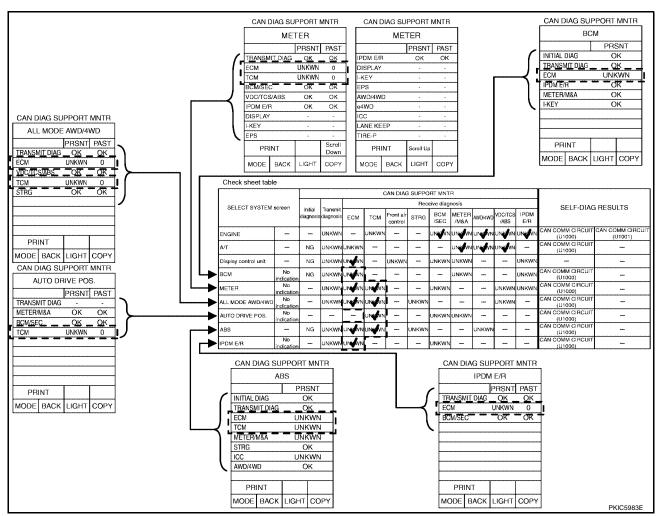
#### NOTE:

In "CAN DIAG 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", "METER", "ALL MODE AWD/4WD", "AUTO DRIVE POS.", "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 "METER", "UNKWN" is displayed on "ECM" and "TCM". Put a check mark to it.
- For "ALL MODE AWD/4WD", "UNKWN" is displayed on "ECM" and "TCM". Put a check mark to it.
- For "AUTO DRIVE POS.", "UNKWN" is displayed on "TCM". Put a check mark to it.
- For "ABS", "UNKWN" is displayed on "ECM", "TCM", "METER/M&A" and "ICC". 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.

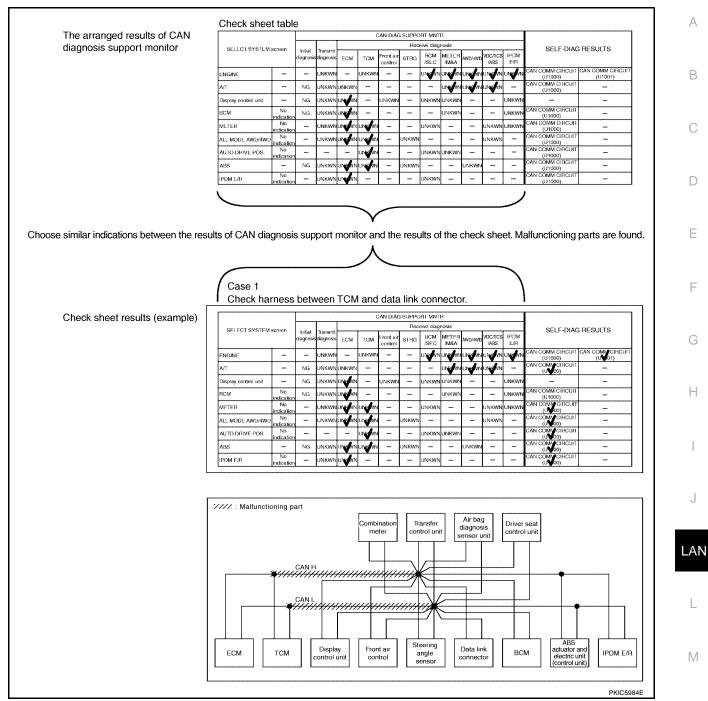
#### **CAUTION:**

"ALL MODE AWD/4WD" puts a check mark on the check sheet when "Present" is "UNKWN" and "Past" is "0".	(Example)	CAN DIAG SU			
		TRANSMIT DIAG ECM VDC/TCS/ABS TCM STRG	PRSNT OK UNKWN UNKWN UNKWN OK	PAST OK 0 39 0 OK	- - - -

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PRINT

MODE BACK LIGHT COPY



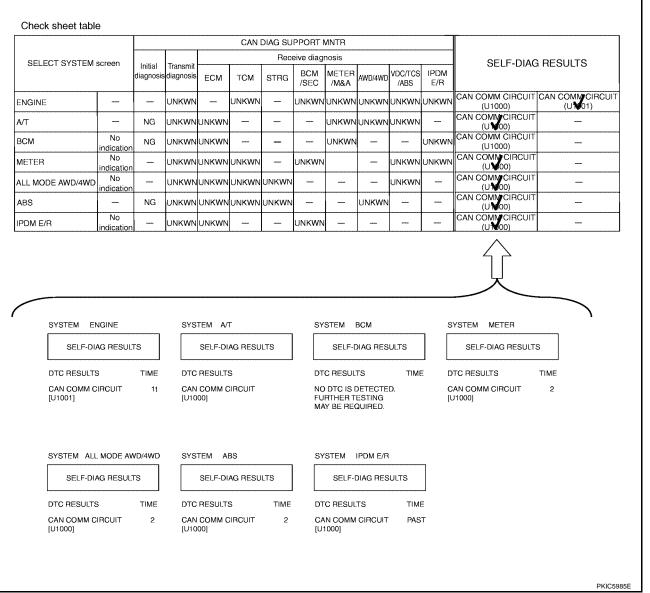
#### NOTE:

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-30, "CAN Communica-</u> tion Unit".

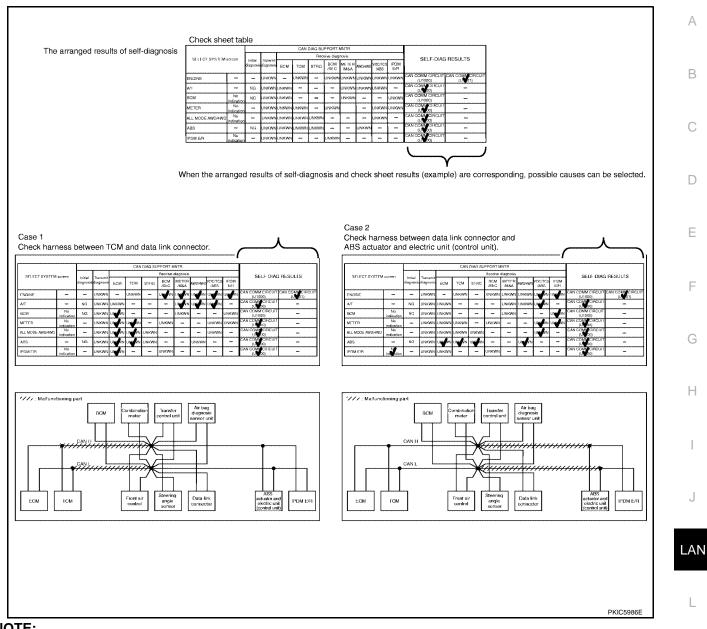
#### Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced



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

#### NOTE:

- For "ENGINE", "CAN COMM CIRCUIT [U1001]" is displayed. Put a check mark to it.
- For "A/T", "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 "METER", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "ALL MODE AWD/4WD", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "ABS", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "IPDM E/R", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.



NOTE:

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

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

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## [CAN]

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	PRSNT PAST
	TRANSMIT DIAG OK OK	METER/M&A OK OK
	VDC/TCS/ABS 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 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/-	
ENGINE	VDC/TCS/ABS	Make sure of normal reception from ABS actua- tor and electric unit (control unit).	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	ICC	ICC is not diagnosed.	_	<b>O</b> . //o // o o /
	HVAC	HVAC is not diagnosed.	_	OK/0/1 – 39/–
	ТСМ	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 con- trol 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

#### [CAN]

**OK/UNKWN** 

**OK/UNKWN** 

**OK/UNKWN** 

**OK/UNKWN** 

**OK/UNKWN** 

UNKWN

COPY

#### **DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN** CAN DIAG SUPPORT MNTR (Example) FOR TCM А A/T PRSNT INITIAL DIAG OK TRANSMIT DIAG OK OK ECM В VDC/TCS/ABS OK METER/M&A OK UNKWN ICC/e4WD AWD/4WD ОK PRINT MODE BACK LIGHT COPY SKIB2335E "SELECT SYSTEM" **"CAN DIAG SUPPORT** Present Description MNTR" screen screen INITIAL DIAG Make sure that microcomputer in ECU works normally. OK/NG

Make sure of normal transmission.

(control unit).

Make sure of normal reception from ECM.

Make sure of normal reception from ABS actuator and electric unit

METER/M&A	Make sure of normal reception from combination meter.
ICC/e4WD	ICC/e4WD is not diagnosed.
AWD/4WD	Make sure of normal reception from transfer control unit.

TRANSMIT DIAG

VDC/TCS/ABS

ECM

#### **Display Results (Present)**

• OK: Normal

A/T

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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR BCM	(Example)	CAN	DIAG SU	PPORT I	MNTR
			BC	M	
				PR	SNT
		INITIAL	DIAG	0	к
		TRANS	MIT DIAG	à O	к
		ECM		0	К
		IPDM E	'R	0	к
		METER	M&A	0	к
		I-KEY		0	ĸ
		PR	INT		
		MODE	BACK	LIGHT	COP

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"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
DCIVI	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.

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#### **DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR METER**

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

CAN DIAG SI	JPPORT I	MNTR		
METER				
	PRSNT	PAST		
IPDM E/R	OK	OK		
DISPLAY	-	-		
I-KEY	-			
EPS	-	-		
AWD/4WD	-			
e4WD	-	-		
ICC				
LANE KEEP	-	-		
TIRE-P		-		
PRINT	Scroll Up			
MODE BACK	LIGHT	COPY		
L				

"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/-	
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
VD	VDC/TCS/ABS	Make sure of normal reception from ABS actua- tor and electric unit (control unit).	OK/UNKWN/-	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-	
METER	DISPLAY	DISPLAY is not diagnosed.	-	OK/0/1 – 39/–
	I-KEY	I-KEY is not diagnosed.		
	EPS	EPS is not diagnosed.	_	
	AWD/4WD	AWD/4WD is not diagnosed.	-	
	e4WD	e4WD is not diagnosed.	_	
	ICC	ICC is not diagnosed.	_	
	LANE KEEP	LANE KEEP is not diagnosed.	_	
	TIRE-P	TIRE-P is not diagnosed.	_	

#### **Display Results (Present)**

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

#### Display Results (Past)

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

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#### DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TRANSFER CONTROL UNIT All-mode 4WD model

(Example)	CAN DIAG SU	PPORT	MNTR	
/	ALL MODE	AWD/4	WD	
		PRSNT	PAST	
	TRANSMIT DIAG	OK	ОК	
	ECM	OK	OK	
	VDC/TCS/ABS	OK	OK	
	TCM	OK	ОК	
	STRG	OK	ОК	
	PRINT			
	MODE BACK	LIGHT	COPY	PKIB5220E

"SELECT SYSTEM screen	" "CAN DIAG SUPPORT MNTR" screen	Description	Present	Past	F
	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	Make sure of normal reception from ABS actua- tor and electric unit (control unit).	OK/UNKWN/-	OK/0/1 – 39/–	F
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN/-		
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN/-		G

#### **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.

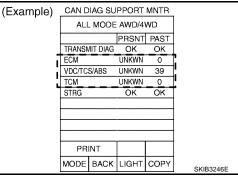
• -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

#### 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 "Exact the "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.



#### Part time 4WD model

(Example)	CAN D	IAG SU			
,	ALL MODE AWD/4WD				
			PR	SNT	
	INITIAL DIAG OK			к	
	TRANSMIT DIAG OK				
	ECM	ECM OK			
	VDC/TCS/ABS		OK		
	TCM		OK		
	METER/M&A OK				
			r	r	
	PRINT				
	MODE	BACK	LIGHT	COPY	PKIC2594E

"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
ALL MODE AWD/	ECM	Make sure of normal reception from ECM.	OK/UNKWN
4WD	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN

#### Display Results (Present)

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

	OF "CAN DIAG SUI EAT CONTROL UN	PPORT MNTR" SCREEN IT		BCM/SEC OK (	AST - OK DK DK	E
"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	L L	Present	PKIC4864E Past	
	TRANSMIT DIAG	TRANSMIT DIAG is not diagnosed.		_		E
AUTO DRIVE POS.	METER/M&A	Make sure of normal reception from meter.	combination	OK/UNKWN/-	OK/0/1 – 39/–	L
	BCM/SEC	Make sure of normal reception from	BCM.	OK/UNKWN/-	-	F
	ТСМ	Make sure of normal reception from	TCM.	OK/UNKWN/-		
Display Results (P <ul> <li>OK: Normal</li> </ul>	resent)					0

- 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 ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

(Example)	CAN D	IAG SU			
,		A			
			PR	SNT	
	INITIAL	INITIAL DIAG OK			
	TRANSM	IT DIAG			
	ECM	ECM OK			
	TCM		OK		
	METER/	METER/M&A UNKWN			
	STRG		0	ĸ	
	ICC	ICC UNKWN			
	AWD/4W	AWD/4WD OK			
	PRINT				
	MODE	BACK	LIGHT	COPY	PKIB6078E

"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	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN
	METER/M&A	METER/M&A is not diagnosed.	UNKWN
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN
	ICC	ICC is not diagnosed.	UNKWN
	AWD/4WD	Make sure of normal reception from transfer control unit.	OK/UNKWN

**Display Results (Present)** 

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

[CAN]

DESCRIPTION ( FOR IPDM E/R	OF "CAN DIAG SU	PPORT MNTR" SCREEN	(Example)	CAN DIAG SUPPORT MN IPDM E/R PRSNT PA TRANSMIT DIAG OK O ECM OK O BCM/SEC OK O PRINT I MODE BACK LIGHT CO	ST K K K
"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 I	ECM.	OK/UNKWN/-	OK/0/1 - 39/-
	BCM/SEC	Make sure of normal reception from I	BCM.	OK/UNKWN/-	
-	nosed unit does not transm ved unit or the unit is not ir	it or receive the applicable data norma n the condition that reception diagnosis	-	d.	

- 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 DISPLAY CONTROL UNIT

(Example)

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

Unit name	Diagnosis item	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			
Display 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			
	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.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

#### Display Results: Error Counter (Reference)

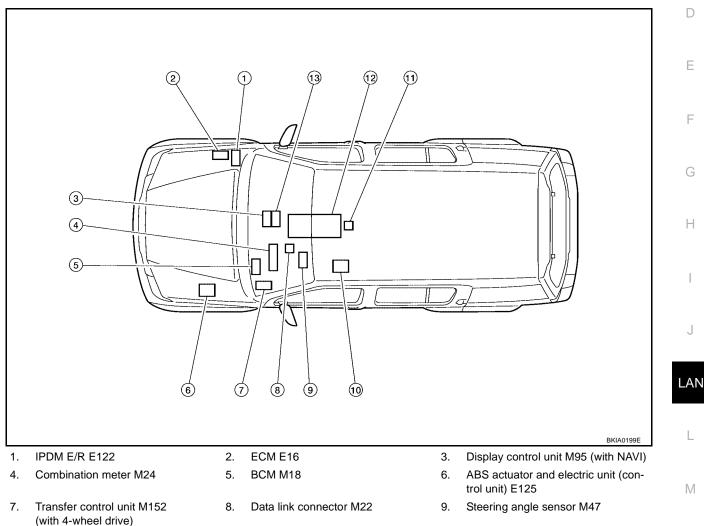
- 0: It is normal now.
- 1 50: Displays when it finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase like 0→1→2...49→50 after returning to the normal condition whenever IGN OFF→ON. If it is over 50, it is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

## **CAN COMMUNICATION**

### System Description

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



- 10. Driver seat control unit P2 (with automatic drive positioner)
- 13. Front air control M50 (with auto A/C)
- 11. Air bag diagnosis sensor unit M35
- 12. A/T assembly F9

[CAN PFP:23710

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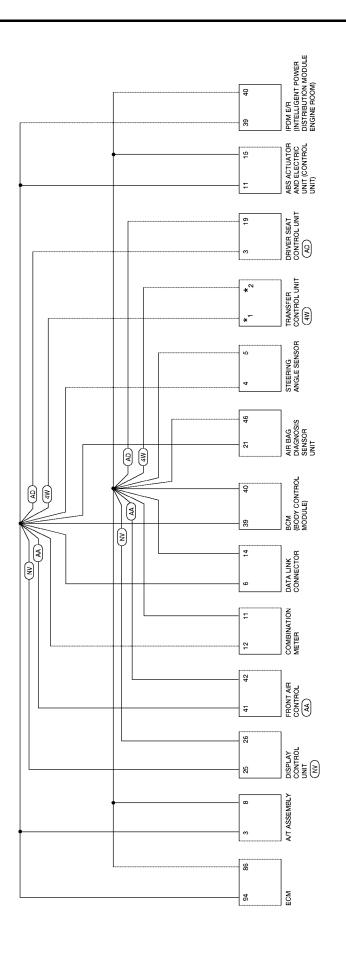
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## Schematic

UKS0051U



 400
 : WITH 4-WHEEL DRIVE

 (AD)
 : WITH AUTO A/C

 (AD)
 : WITH AUTO MATC DRIVE POSITIONER

 (AM)
 : ALL-MODE 4WD SYSTEM

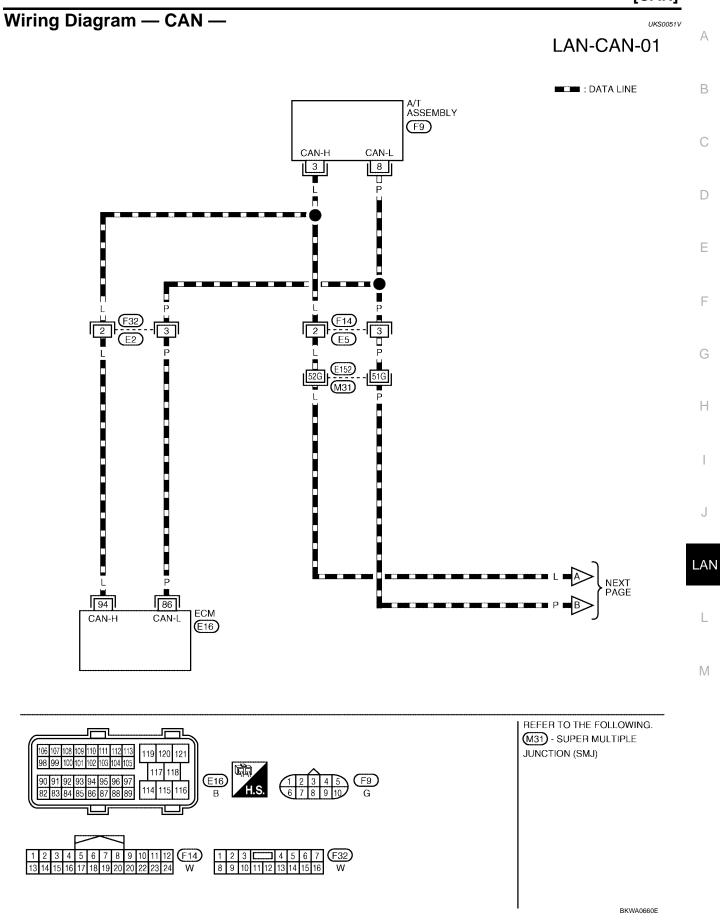
 (W)
 : WITH NAVI

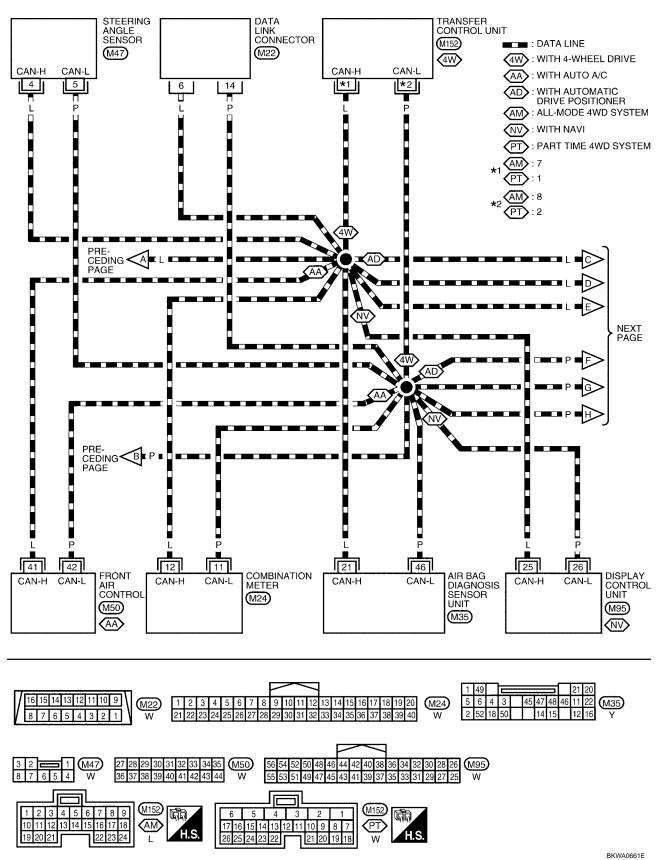
 \* 1
 (M)

 \* 2
 (M)

 \* 7
 (M)

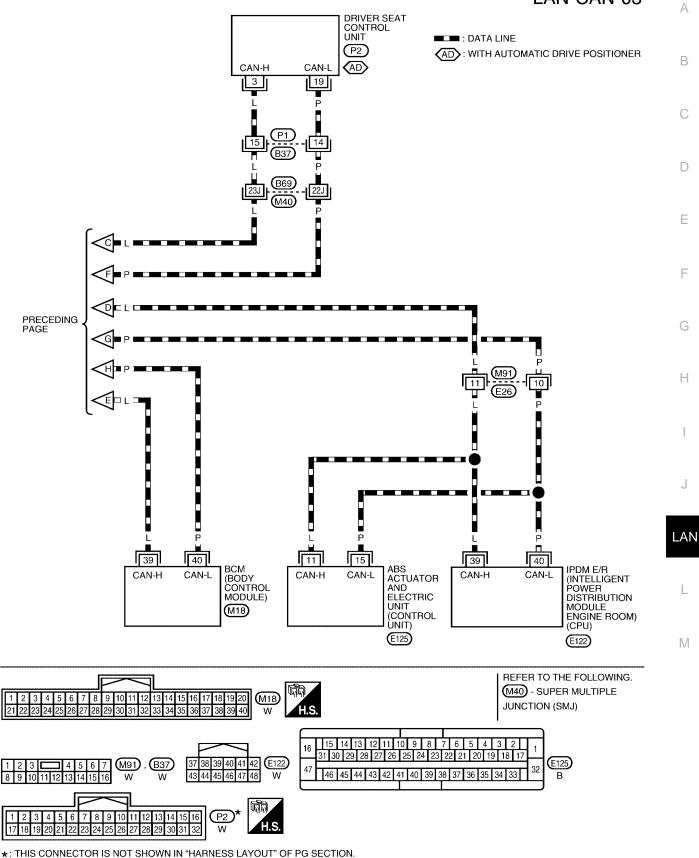
BKWA0659E





## [CAN]





BKWA0662E

## **CAN Communication Unit**

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

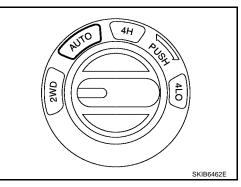
Body type		Wagon										
Axle		2WD 4WD(Part time) 4WD(All-mode)										
Engine		VQ40DE										
Transmission		A/T										
Brake control		VDC										
Automatic air conditioner		×	×	×		×		×	×	×		
Automatic drive positioner			×	×					×	×		
Navigation system				×						×		
CAN system type	1	2	3	4	5	6	7	8	9	10		
CAN system trouble diagnosis	LAN-41	LAN-55	LAN-69	<u>LAN-84</u>	<u>LAN-</u> <u>101</u>	<u>LAN-</u> <u>116</u>	<u>LAN-</u> <u>131</u>	<u>LAN-</u> <u>146</u>	<u>LAN-</u> <u>161</u>	<u>LAN-</u> <u>177</u>		

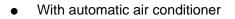
×: Applicable

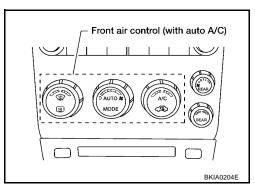
#### NOTE:

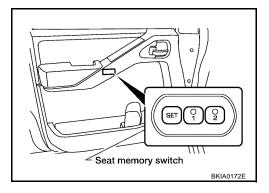
Confirming the presence of the following items helps to identify CAN system type.

• With All-mode 4WD

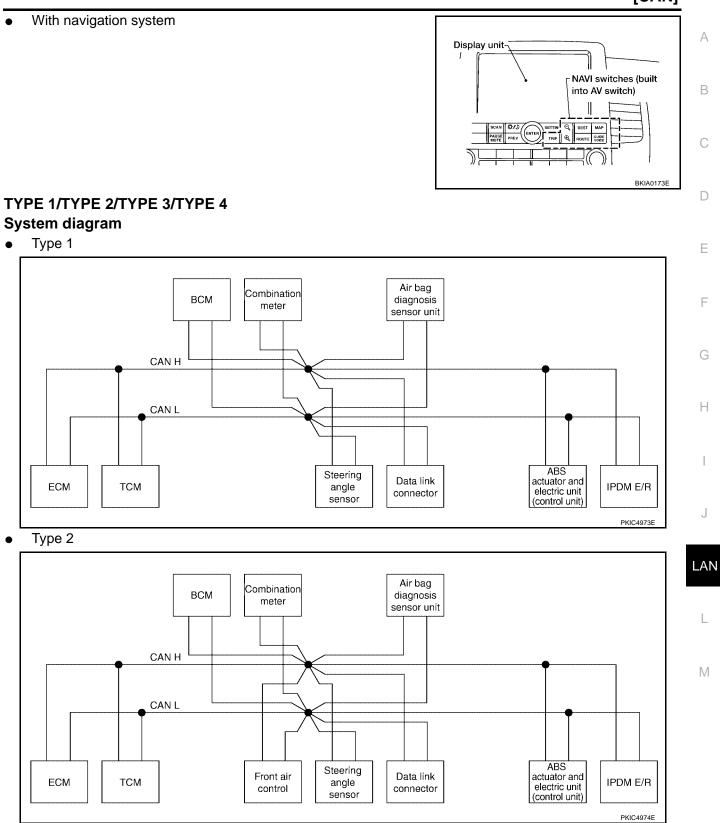


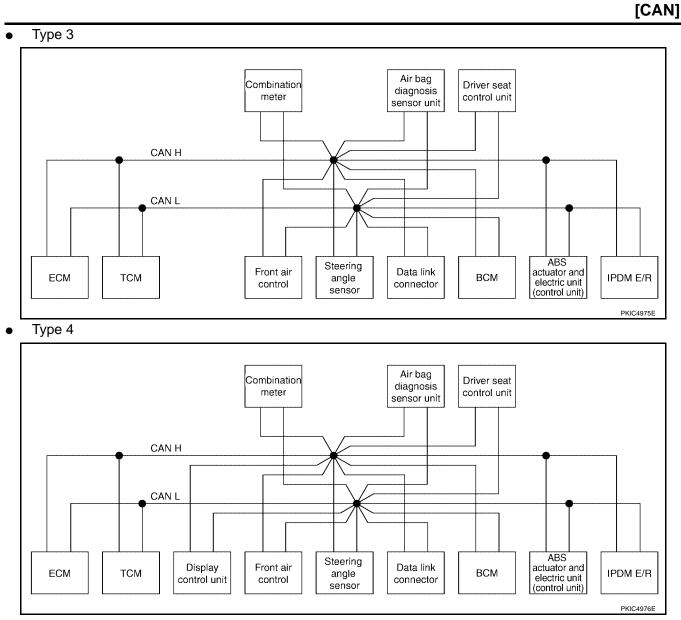






• With automatic drive positioner





#### Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ТСМ	Dis- play control unit <sup>*1</sup>	Front air con- trol <sup>*2</sup>	Steer- ing angle sensor	ВСМ	Combi- nation meter	Driver seat control unit <sup>*3</sup>	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
A/C compressor request signal	Т									R
Accelerator pedal position signal	Т	R							R	
ASCD CRUISE lamp signal	Т						R			
ASCD OD cancel request	Т	R								
ASCD operation signal	Т	R								
ASCD SET lamp signal	Т						R			
Battery voltage signal	Т	R								
Closed throttle position signal	Т	R								
Cooling fan speed request signal	Т									R

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										[0/]	
Signals	ECM	тсм	Dis- play control unit <sup>*1</sup>	Front air con- trol *2	Steer- ing angle sensor	BCM	Combi- nation meter	Driver seat control unit <sup>*3</sup>	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R	A
Engine coolant temperature signal	Т			R			R				С
Engine speed signal	Т	R	R	R			R		R		
Engine status signal	Т					R					
Fuel consumption monitor signal	Т		R				R T				D
Malfunction indicator lamp signal	Т						R				Е
Power generation command value signal	Т									R	
Wide open throttle position signal	т	R									F
A/T fluid temperature sensor signal		Т					R				
A/T position indicator lamp signal		Т					R				
A/T self-diagnosis signal	R	Т									G
O/D OFF indicator signal		Т					R				
Output shaft revolution signal	R	Т									Н
P range signal		Т					R	R	R		
Turbine revolution signal	R	Т									
A/C switch/indicator signal			T R	R T							
			Т	•		R		R			
System setting signal			R			Т		Т			J
Steering angle sensor signal					т	•		•	R		
A/C switch signal	R			R		Т					LAN
Blower fan motor switch signal	R					Т					
Buzzer output signal						Т	R				L
Day time running light request signal						Т	R			R	
Door switch signal			R			Т	R	R		R	
Front fog light request signal						Т	R			R	Μ
Front wiper request signal						Т				R	
High beam request signal						Т	R			R	
Horn chirp signal						Т				R	
Ignition switch signal						Т		R			
Key fob door unlock signal						Т		R			
Key fob ID signal						Т		R			
Key switch signal						T 		R			
Low beam request signal						T				R	
Position light request signal						T	R			R	
Rear window defogger switch signal				R		T		<b>1</b>		R	
Sleep wake up signal						Т	R	R		R	
Theft warning horn request signal						Т				R	
Tire pressure data signal			R			Т					

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Signals	ECM	ТСМ	Dis- play control unit <sup>*1</sup>	Front air con- trol <sup>*2</sup>	Steer- ing angle sensor	BCM	Combi- nation meter	Driver seat control unit <sup>*3</sup>	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Tire pressure signal			R			Т	R			
Turn indicator signal						Т	R			
1st position switch signal		R					Т			
Distance to empty signal			R				Т			
Fuel level low warning signal			R				Т			
Fuel level sensor signal	R						Т			
Overdrive control switch signal		R					Т			
Seat belt buckle switch signal						R	Т			
Stop lamp switch signal		R					Т			
Vehicle speed signal				R			R		Т	
	R	R	R	R		R	Т	R		
ABS warning lamp signal							R		Т	
Brake warning lamp signal							R		Т	
SLIP indicator lamp signal							R		Т	
VDC OFF indicator lamp signal							R		Т	
Front wiper stop position signal						R				Т
High beam status signal	R									Т
Low beam status signal	R									Т
Rear window defogger control signal	R			R						Т

• \*1: with navigation system model only.

• \*2: with auto air conditioner model only.

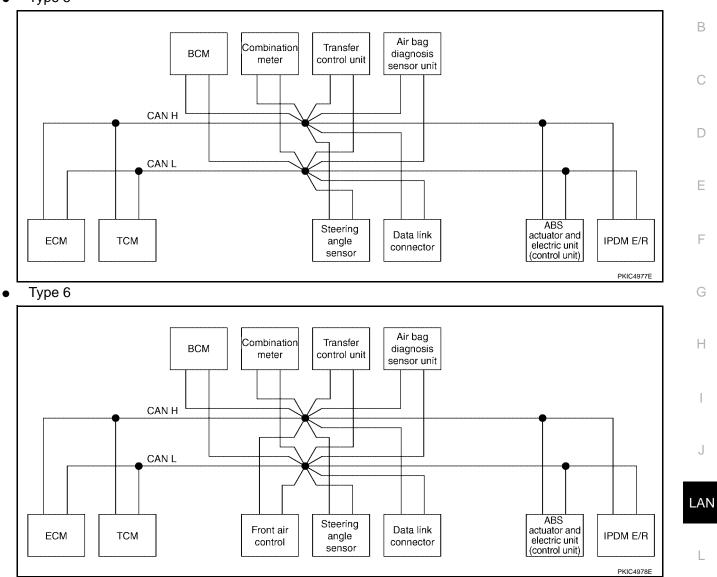
• \*3: with automatic drive positioner model only.

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

#### TYPE 5/TYPE 6 System diagram

• Type 5



## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ТСМ	Front air con- trol <sup>*</sup>	Steer- ing angle sensor	BCM	Combi- nation meter	Trans- fer con- trol unit	ABS actua- tor and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т								R
Accelerator pedal position signal	Т	R						R	
ASCD CRUISE lamp signal	Т					R			
ASCD OD cancel request	Т	R							
ASCD operation signal	Т	R							
ASCD SET lamp signal	Т					R			
Battery voltage signal	Т	R							
Closed throttle position signal	Т	R							

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Signals	ECM	тсм	Front air con- trol <sup>*</sup>	Steer- ing angle sensor	всм	Combi- nation meter	Trans- fer con- trol unit	ABS actua- tor and electric unit (control unit)	IPDM E/R
Cooling fan speed request signal	Т								R
Engine coolant temperature signal	Т		R			R			
Engine speed signal	Т	R	R			R	R	R	
Engine status signal	Т				R				
Fuel consumption monitor signal	Т					R			
Malfunction indicator lamp signal	Т					R			
Power generation command value sig- nal	Т								R
Wide open throttle position signal	Т	R							
A/T fluid temperature sensor signal		Т				R			
A/T position indicator lamp signal		Т				R	R		
A/T self-diagnosis signal	R	Т							
O/D OFF indicator signal		Т				R			
Output shaft revolution signal	R	Т					R		
P range signal		Т				R		R	
Turbine revolution signal	R	Т							
Steering angle sensor signal				Т				R	
A/C switch signal	R		R		Т				
Blower fan motor switch signal	R				Т				
Buzzer output signal					Т	R			
Day time running light request signal					Т	R			R
Door switch signal					Т	R			R
Front fog light request signal					Т	R			R
Front wiper request signal					Т				R
High beam request signal					т	R			R
Horn chirp signal					Т				R
Ignition switch signal					т				R
Low beam request signal					Т				R
Position light request signal					Т	R			R
Rear window defogger switch signal			R		Т				R
Sleep wake up signal					Т	R			R
Theft warning horn request signal					Т				R
Tire pressure signal					Т	R			
Turn indicator signal					т	R			
1st position switch signal		R				Т			
Overdrive control switch signal		R				Т	<u></u>		
Seat belt buckle switch signal					R	Т			
		R				Т			
Stop lamp switch signal							R	Т	
Vehicle speed signal	R	R	R R		R	R T	R	Т	
	к	к	к		к	I			

Revision: September 2005

Signals	ECM	ТСМ	Front air con- trol <sup>*</sup>	Steer- ing angle sensor	BCM	Combi- nation meter	Trans- fer con- trol unit	ABS actua- tor and electric unit (control unit)	IPDM E/R
Fuel level sensor signal	R					Т			
ABS warning lamp signal						R		Т	
Brake warning lamp signal						R		Т	
HDC indicator lamp signal						R		Т	
SLIP indicator lamp signal						R		Т	
VDC OFF indicator lamp signal						R		Т	
Front wiper stop position signal					R				Т
High beam status signal	R								Т
Low beam status signal	R								Т
Rear window defogger control signal	R		R						Т

\*: with auto air conditioner model only.

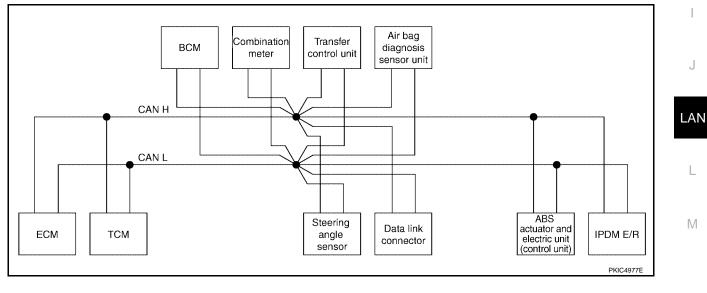
#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

### **TYPE 7/TYPE 8/TYPE 9/TYPE 10**

### System diagram

Type 7 •

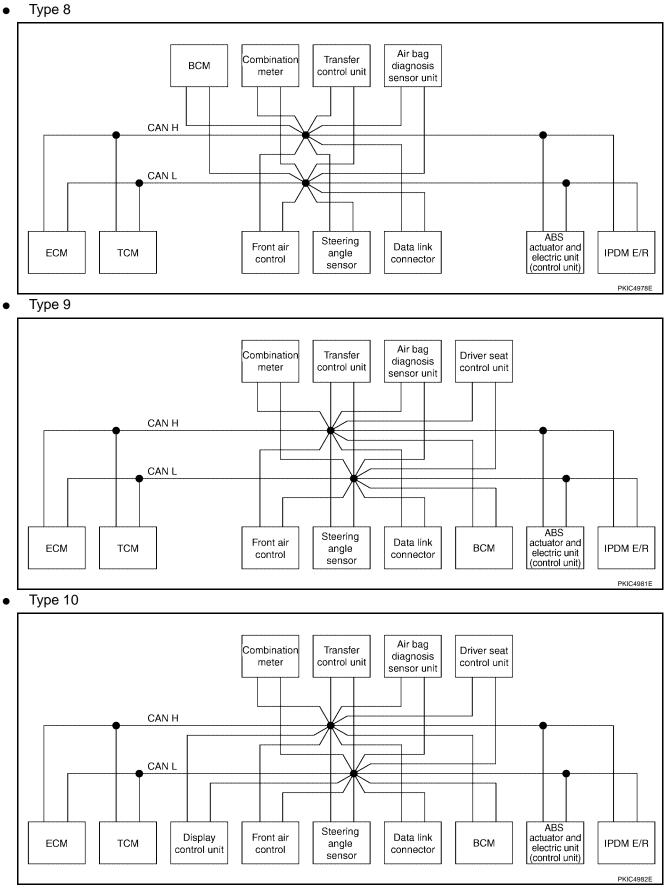


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## Input/output signal chart

									T: Trar	nsmit R:	Receive	А
Signals	ECM	тсм	Dis- play con- trol unit <sup>*1</sup>	Front air con- trol <sup>*2</sup>	Steer- ing angle sen- sor	всм	Com- bina- tion meter	Trans- fer con- trol unit	Driver seat con- trol unit <sup>*3</sup>	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R	B
A/C compressor request signal	Т										R	D
Accelerator pedal position signal	Т	R						R		R		
ASCD CRUISE lamp signal	Т						R					Е
ASCD OD cancel request	Т	R										
ASCD operation signal	Т	R										
ASCD SET lamp signal	Т						R					F
Battery voltage signal	Т	R										
Closed throttle position signal	Т	R										G
Cooling fan speed request signal	Т										R	0
Engine coolant temperature signal	Т			R			R					
Engine speed signal	Т	R	R	R			R	R		R		Н
Engine status signal	Т					R						
Fuel concumption monitor signal	Т						R					1
Fuel consumption monitor signal			R				Т					I
Malfunction indicator lamp signal	Т						R					
Power generation command value signal	Т										R	J
Wide open throttle position signal	Т	R										
A/T fluid temperature sensor signal		Т					R					LA
A/T position indicator lamp signal		Т					R	R				
A/T self-diagnosis signal	R	Т										I
O/D OFF indicator signal		Т					R					
Output shaft revolution signal	R	Т						R				
P range signal		Т					R		R	R		M
Turbine revolution signal	R	Т										
A/C switch/indicator signal			Т	R								
A/C switch/indicator signal			R	Т								
Sustam patting signal			Т			R			R			
System setting signal			R			Т			Т			
Steering angle sensor signal					Т					R		
A/C switch signal	R			R		Т						
Blower fan motor switch signal	R					Т						
Buzzer output signal						Т	R					
Day time running light request signal						Т	R				R	
Door switch signal			R			Т	R		R		R	
Front fog light request signal						Т	R				R	
Front wiper request signal						Т					R	

Revision: September 2005

SignalsECMTCMDisplay control unit*1Front air control unit*1Steer, and angle sent tool unit*1Com-trol angle sent tool unit*1Com-trol angle sent tool unit*1Driver and aleccontrol unit*1ABS actual tor and aleccontrol unit*1High beam request signalTRTRHorn chirp signalTR </th <th>IPDM E/R R R</th>	IPDM E/R R R
Horn chirp signalTTIgnition switch signalTRIgnition switch signalTRKey fob door unlock signalTRKey fob ID signalTRKey switch signalTRLow beam request signalTRLow beam request signalTRRear window defogger switch signalRTSleep wake up signalTRTheft warning horn request signalRTTire pressure data signalRTReRTTire pressure signalRTRTRTire pressure signalRTRTRTire pressure signalRTRTRRTRTire pressure signalRTRTRRTRRTRRRTRRR <tr< td=""><td></td></tr<>	
Ignition switch signalTRIgnition switch signalImage: constraint of the signalTRKey fob lD signalImage: constraint of the signalTRKey switch signalImage: constraint of the signalTRLow beam request signalImage: constraint of the signalTRLow beam request signalImage: constraint of the signalImage: constraint of the signalImage: constraint of the signalPosition light request signalImage: constraint of the signalRImage: constraint of the signalImage: constraint of the signalRear window defogger switch signalImage: constraint of the signalRImage: constraint of the signalImage: constraint of the signalSleep wake up signalImage: constraint of the signalImage: constraint of the signalImage: constraint of the signalImage: constraint of the signalTheft warning horn request signalImage: constraint of the signalImage: constraint of the signalImage: constraint of the signalTire pressure data signalImage: constraint of the signalImage: constraint of the signalImage: constraint of the signalTire pressure signalImage: constraint of the signal	R
Key fob door unlock signalTRKey fob ID signalTRKey switch signalTRLow beam request signalTRPosition light request signalTRRear window defogger switch signalRTSleep wake up signalTRTheft warning horn request signalRTTire pressure data signalRTRear windowRT	
Key fob ID signalTRKey switch signalTRLow beam request signalTRPosition light request signalTRRear window defogger switch signalRTSleep wake up signalTRTheft warning horn request signalRTTire pressure data signalRTRear windowRT	
Key switch signalTRLow beam request signalTTRPosition light request signalTRTRear window defogger switch signalRTRSleep wake up signalTRRTheft warning horn request signalRTITire pressure data signalRTITire pressure signalRTITire pressure signalRTI	
Low beam request signalTTPosition light request signalTRRear window defogger switch signalRTSleep wake up signalTRTheft warning horn request signalTRTire pressure data signalRTTire pressure signalRTRRT	
Position light request signalTRRear window defogger switch signalRTRSleep wake up signalTRRTheft warning horn request signalTTRTire pressure data signalRTITire pressure signalRTR	
Rear window defogger switch signalRTImage: Constraint of the signalSleep wake up signalTRRTheft warning horn request signalTTTire pressure data signalRTImage: Constraint of the signalTire pressure signalRTImage: Constraint of the signalTire pressure signalRTR	R
Sleep wake up signalTRRTheft warning horn request signalRTITire pressure data signalRTITire pressure signalRTI	R
Theft warning horn request signal     T       Tire pressure data signal     R     T       Tire pressure signal     R     T	R
Tire pressure data signal     R     T       Tire pressure signal     R     T	R
Tire pressure signal   R   T   R	R
Turn indicator signal T P	
1st position switch signal   R   T	
Distance to empty signal R T	
Fuel level low warning signal     R     T	
Fuel level sensor signal     R     T	
Overdrive control switch signal R T	
Seat belt buckle switch signal R T	
Stop lamp switch signal   R   T	
Nahisla second sizes I R R R T	
Vehicle speed signal         R         R         R         R         T         R	
ABS warning lamp signal R T	
Brake warning lamp signal R T	
SLIP indicator lamp signal     R     T	
VDC OFF indicator lamp signal R T	
Front wiper stop position signal R	Т
High beam status signal   R	
Low beam status signal R	Т
Rear window defogger control signal   R   R	T T

• \*1: with navigation system model only.

• \*2: with auto air conditioner model only.

• \*3: with automatic drive positioner model only.

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

[CAN]

	[CAN]	
CAN SYSTEM (TYPE 1)	PFP:23710	
Component Parts and Harness Connector Location	UKS0053A	А
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	UKS0053B	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	UKS0053C	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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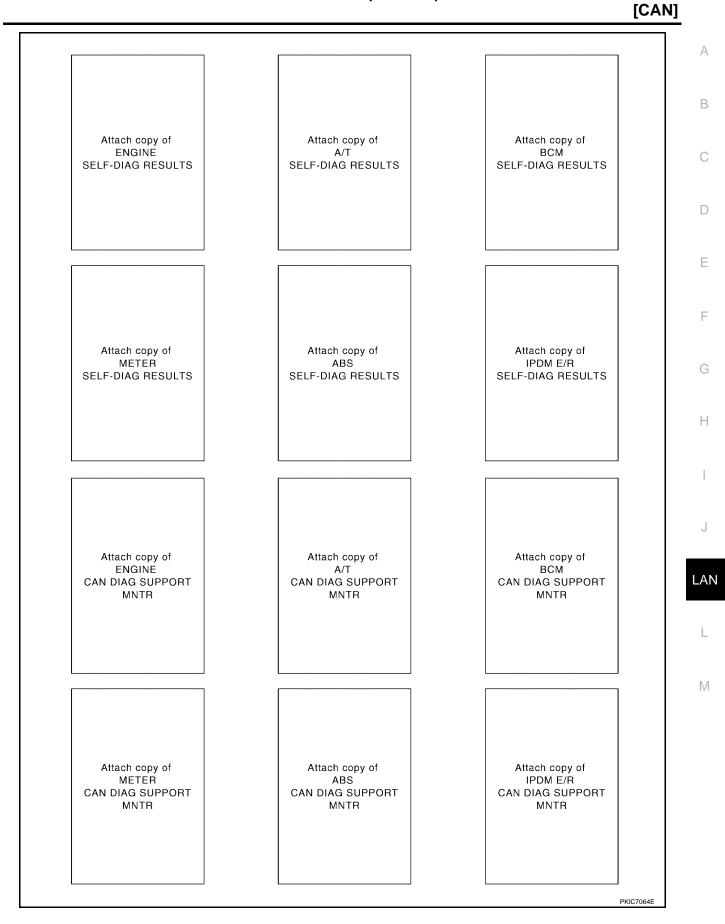
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### Check Sheet

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

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYST	EM screen	Initial	Transmit		1	Rec	ceive diagn	I	l		SELF-DIAG	RESULTS
			diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
NGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
л		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
СМ	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
ETER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
BS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		CAN COMM CIRCUIT (U1000)	
PDM E/R	No indication	-	UNKWN	UNKWN			UNKWN	-		1	CAN COMM CIRCUIT (U1000)	
ymptoms :												
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		[				1	ſ					
			Atta	ich copy	of			A	tach cop	v of		
				CT SÝŚ				SEL	ECT SYS	STEM		
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### **CHECK SHEET RESULTS (EXAMPLE)**

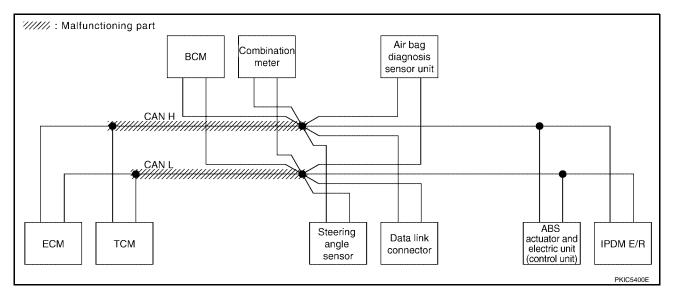
#### NOTE:

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

### Case 1

Check harness between TCM and data link connector. Refer to LAN-195, "Inspection Between TCM and Data Link Connector Circuit" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTE	Miscreen	lucities I	T			Red	eive diagn	osis	-		SELE-DIAG	RESULTS
012201 01012		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	_	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UV01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	_
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 100)	-
IPDM E/R	No indication	-	UNKWN	UNKWN		—	UNKWN	—	—		CAN COMM CIRCUIT (U 100)	_



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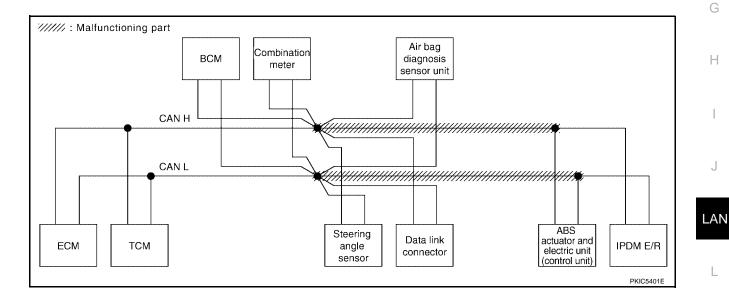
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#### Case 2

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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTE	Miscreen					Red	ceive diagn	osis			SELE-DIAG	RESULTS
	W Soreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE		-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	_
BCM	No indication	NG	UNKWN	UNKWN		-	-	UNKWN	-		CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	_	UNKWN	UNKWN		-
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN		_	-		CAN COMM CIRCUIT (U 100)	
IPDM E/R	No individuation		UNKWN	UNKWN	-	-	UNKWN	-	-	_	CAN COMM CIRCUIT (U 000)	-

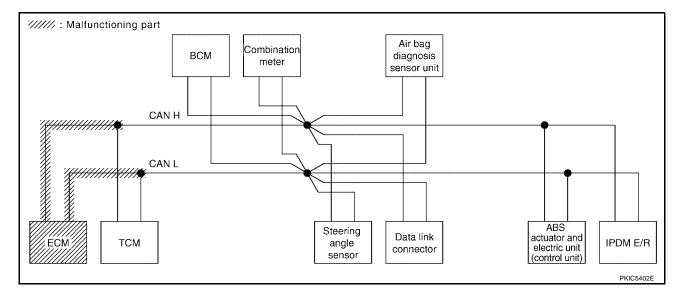


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### Case 3

Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

SELECT SYSTEM screen         Initial diagnosis         Transmit diagnosis         Tech         STRG         BCM //SEC         METER //MAA         VDC/TCS         IPDM //ABS         SELF-DIAG         RESULT SYSTEM Screen           ENGINE           UNWWN          UNWWN          UNWWN         UNWWN         UNWWN         UNWWN         UNWWN         UNWWN          CAN COMINCIPCUIT         CAN COMIN	TS
ENGINE       UNIVAR     TCM     STRG     BCM /SEC     METER /M&A     VDC/TCS /ABS     IPDM       ENGINE      UNIVAR      UNIVAR      UNIVAR     UNIVAR     UNIVAR     UNIVAR     UNIVAR     CAN COMM CIRCUIT CAN CC (UV000)       A/T      NG     UNIVAR     UNIVAR      UNIVAR     UNIVAR     UNIVAR      CAN COMM CIRCUIT (UV000)	
ENGINE          UNWN          UNWN         UNWN         UNWN         UNWN         UU         (U         000)         (I           A/T          NG         UNKWN         UNKWN           UNKWN         UNKWN          CAN COMIN CIRCUIT (U         (U         <	
	AN CIRCUI
BCM Indication NG UNKWN UNKWN UNKWN - UNKWN - UNKWN (U1000)	
METER NO - UNKWN UNKWN UNKWN - UNKWN UNKWN - UNKWN UNKWN CAN COMWCIRCUIT	
ABS - NG UNKWN UNKWN UNKWN CAN COMIY CIRCUIT	
IPDM E/R No - UNKWN UNKWN CAN COMINCIRCUIT	



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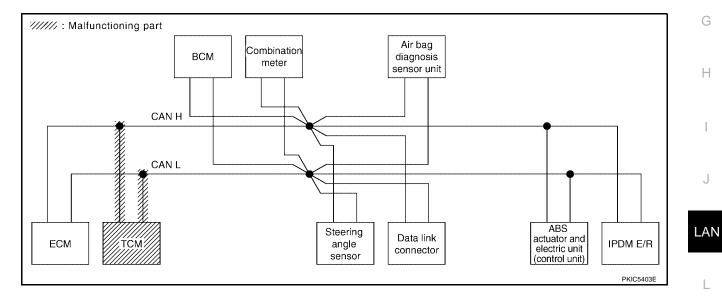
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### Case 4

Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

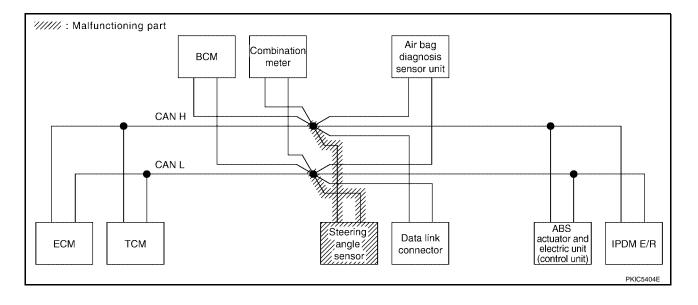
					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	Ascreen	1-24-1	<b>T</b>			Red	ceive diagn	osis			SELE-DIAC	RESULTS
011101010111		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIV	
ENGINE	_		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-			UNKOVN	UNKIN		CAN COMM CIRCUIT (U 100)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		CAN COMM CIRCUIT (U 000)	
IPDM E/R	No indication		UNKWN	UNKWN	-		UNKWN				CAN COMM CIRCUIT (U1000)	-



### Case 5

Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	Ascreen	1.325.1	<b>T</b>			Red	ceive diagn	osis			SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	_	-	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
всм	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
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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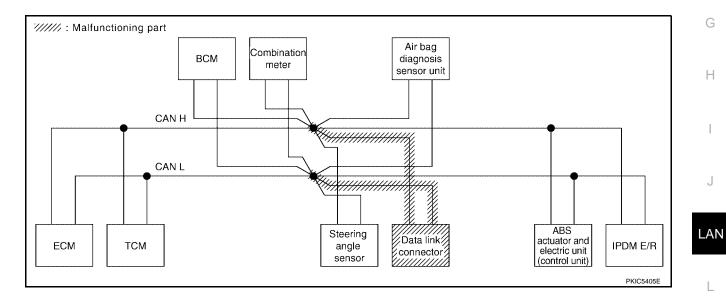
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### Case 6

Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

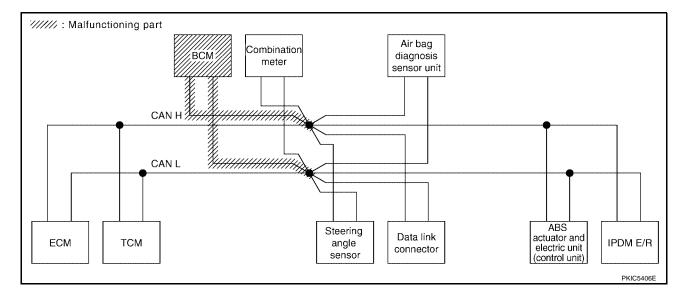
					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen	Initial	Transmit			Rec	eive diagn	osis			SELF-DIAC	BESUITS
		diagnosis		ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
BCM	No inclustion	NG	UNKWN	UNKWN	-		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-		UNKWN		-		CAN COMM CIRCUIT (U1000)	—



### Case 7

Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

SELECT SYSTEW         Initial diagnosis         Transmit fiagnosis         Imitial diagnosis         Transmit fiagnosis         Imitial diagnosis         Transmit fiagnosis         STRG         BCM /SEC         METER /M&AS         VDC/TCS         IPDM //ABS         SELF-DIAG RESULTS           ENGINE          UNKWN          UNKWN         VNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         CAN COMM CIRCUIT (U1000)         CAN						CAN DIA	G SUPPOR	RT MNTR					
Initial diagnosisInitial diagnosisInitial diagnosisICMTCMSTRGBCMMETER /SECVDC/TCSIPDMENGINEUNKWN-UNKWN-UNKWNUNKWNUNKWNUNKWNCAN COMM CIRCUIT (U1000)CAN COMM CIRCUIT (U1000)A/T-NGUNKWNUNKWNUNKWNUNKWN-CAN COMM CIRCUIT (U1000)-BCMN indicationNGUNKWNUNKWNUNKWN-CAN COMM CIRCUIT (U1000)-METERNo indication-UNKWNUNKWNUNKWN-CAN COMM CIRCUIT (U1000)-ABS-NGUNKWNUNKWNUNKWNUNKWNCAN COMM CIRCUIT (U1000)-	SELECT SYSTEM	Iscreen	Lucitite I	T			Rec	eive diagn	osis			SELE-DIAG	BESUITS
ENGINE         -         ONKWN         -         UNKWN         -         UNKWN         -         -         CAN COMM CIRCUIT (U1000)         -         -         -         UNKWN         -         -         -         -         UNKWN         -         -         -         -         -         -         UNKWN         -         UNKWN         -         -         -         UNKWN         CAN COMM CIRCUIT (U1000)         - <td>011101010101</td> <td></td> <td></td> <td></td> <td>ECM</td> <td>тсм</td> <td>STRG</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	011101010101				ECM	тсм	STRG						
A/T         -         NG         UNKWN         UNKWN         -         -         -         -         ONKWN         UNKWN         -         -         (U1000)         -         -         -         -         UNKWN         UNKWN         -         -         -         UNKWN         UNKWN         -         -         -         UNKWN         UNKWN         -         -         UNKWN         -         UNKWN         -         -         -         -         UNKWN         CAN COMM CIRCUIT (U1000)         -	ENGINE		-	UNKWN	1	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN		
BCM     Individing     NG     UNKWN     UNKWN     —     —     —     UNKWN     UNKWN     [U1000]     —     —       METER     No indication     -     UNKWN     UNKWN     UNKWN     -     UNKWN     UNKWN     UNKWN     CAN COMM CIRCUIT (U1000)     -       ABS     -     NG     UNKWN     UNKWN     UNKWN     -     -     -     CAN COMM CIRCUIT (U1000)     -	A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-		
METER         indication         -         UNKWN         UNKWN         -         UNKWN         UNKWN         UUX000         -           ABS         -         NG         UNKWN         UNKWN         UNKWN         -         -         -         CAN COMM CIRCUIT (U1000)         -         -	BCM	No inclusion	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN		
ABS - NG UNKWN UNKWN UNKWN (U1000) -	METER		-	UNKWN	UNKWN	UNKWN	-		-	UNKWN	UNKWN		
	ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	-	-		-
IPDM E/R NO - UNKWN UNKWN UNKWN (UV000) -	IPDM E/R	No indication	-	UNKWN	UNKWN		-	UNKIN		-	-	CAN COMM CIRCUIT (U 1000)	



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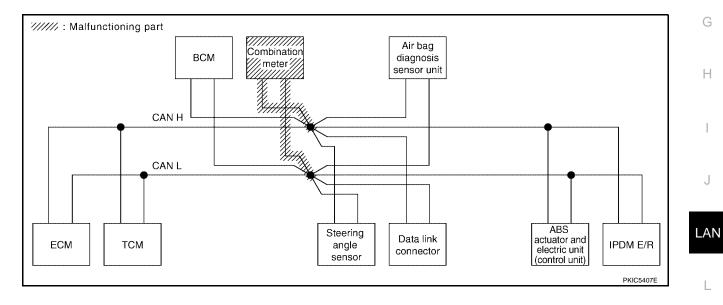
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### Case 8

Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

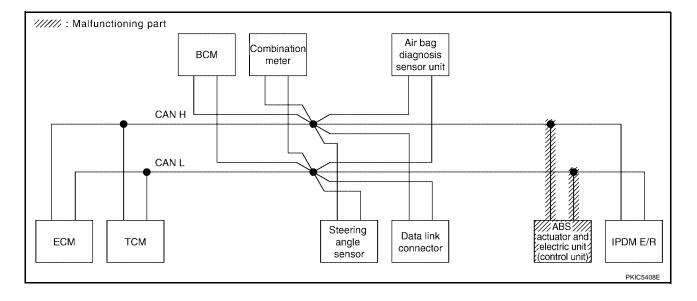
					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	Ascreen	1-21-1				Red	ceive diagn	osis			SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UV01)
A/T	-	NG	UNKWN	UNKWN	_	-	-	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 100)	_
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNIWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indivation	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-



#### Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "<u>ABS Actuator and Electric Unit</u> (<u>Control Unit</u>) <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTE	Mecroon					Red	eive diagn	osis				RESULTS
	NI SOLCCI	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	_	UNKWN		UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	
BCM	No indication	NG	UNKWN	UNKWN				UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
ABS	-	V	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-		-	CAN COMM CIRCUIT (U1000)	-
											<b>n</b>	



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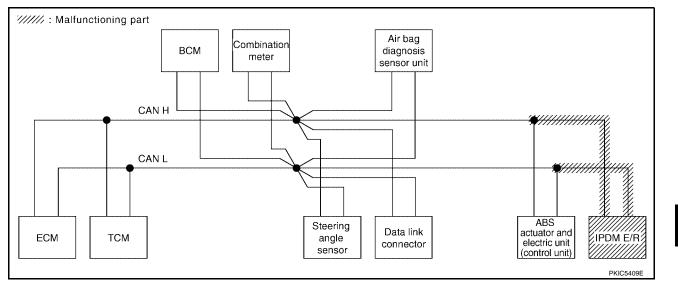
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### Case 10

Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	Ascroon		·			Red	eive diagn	osis				RESULTS
	a soreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UV01)
A/T	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKIN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKVN	CAN COMM CIRCUIT (U 100)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No incluation		UNKWN	UNKWN	-	-	UNKWN	-	-		CAN COMM CIRCUIT (U 000)	



#### Case 11

Check CAN communication circuit. Refer to LAN-203, "CAN Communication Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTE	Miscreen	1-11-1	<b>T</b>			Red	eive diagn	osis			SELF-DIAG	BESUITS
022201 01012		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	THEODERO
ENGINE	-		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN		CAN COMIN CIRCUIT (UN00)	CAN COMM CIRCUIT (UV01)
A/T	-	NG	UNKWN	UNKWN	—	-	-	UNIOWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	1
BCM	No inclusion	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No inclusion		UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMINCIRCUIT (U 100)	1
ABS	-	V	UNKWN	UNKIN	UNKWN	UNKWN	-	-	-	-	CAN COMIN CIRCUIT (U 000)	—
IPDM E/R	No incluation	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (UV000)	-
												PKIC5636E

### Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTE	Miscroon		·			Red	eive diagn	osis			SELF-DIAG	BESHITS
	NI SOLCCI	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-	-	UNKWN		UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN			-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
всм	No indication	NG	UNKWN	UNKWN			-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKVN	-	UNKWN	-	UNKIN	UNKWN	CAN COMICIRCUIT (U 100)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	
											<b>u</b>	

### Case 13

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTE	Miscreen	luciti e l	T			Red	eive diagn	osis			SELE-DIAG	RESULTS
012201 0101		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
<b>A/</b> T	-	NG	UNKWN	1	-		-	-	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	_	UNKWN	-	-		-		CAN COMICIRCUIT (U 000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	_

	[CAN]	
CAN SYSTEM (TYPE 2)	PFP:23710	
Component Parts and Harness Connector Location	UKS0053E	А
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	UKS0053F	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	UK\$0053G	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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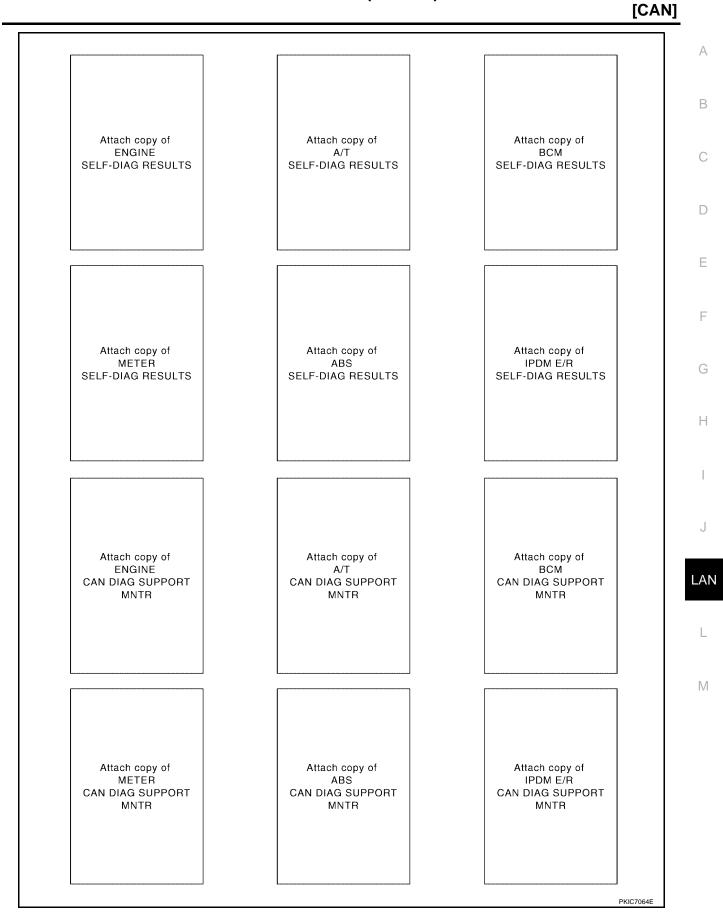
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### **Check Sheet**

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

No         NG         UNKWN         UNKWN         —         —         UNKWN         UNKWN         —         CAN COMM CIRCUIT (U1000)         —           M         No indication         NG         UNKWN         UNKWN         —         —         UNKWN         UNKWN         —         CAN COMM CIRCUIT (U1000)         —           FER         No         —         UNKWN         UNKWN         —         UNKWN         —         UNKWN         CAN COMM CIRCUIT (U1000)         —           S         —         NG         UNKWN         UNKWN         UNKWN         —         UNKWN         UNKWN         CAN COMM CIRCUIT (U1000)         —						CAN DIA	G SUPPOR						
diagnosis     diagnosis     ECM     TCM     STRG     BCM /SEC     METER /N&A     VDC/SS     IPDM LPR       3INE       UNKWN      UNKWN      UNKWN     UNKWN     UNKWN     UNKWN     UNKWN     UNKWN     UNIKWN     UNIKWN     UNIKWN     UNIKWN     UNIKWN     UNIKWN     UNIKWN     UNIKWN      CAN COMM CIRCUIT (U1001)      CAN COMM CIRCUIT (U1000)        CAN COMM CIRCUIT (U1000)        UNIKWN       CAN COMM CIRCUIT (U1000)        CAN COMM CIRCUIT (U1000)        UNIKWN       UNIKWN       CAN COMM CIRCUIT (U1000)         CAN COM CIRCUIT (U1000) <td>SELECT SYSTE</td> <td>EM screen</td> <td>Initial</td> <td>Transmit</td> <td></td> <td></td> <td>Rea</td> <td>eive diagn</td> <td>osis</td> <td></td> <td></td> <td>SELF-DIAG</td> <td>G RESULTS</td>	SELECT SYSTE	EM screen	Initial	Transmit			Rea	eive diagn	osis			SELF-DIAG	G RESULTS
INE         -         ONKWN         -         ONKWN         ONKWN <td></td> <td></td> <td>diagnosis</td> <td>diagnosis</td> <td>ECM</td> <td>тсм</td> <td>STRG</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			diagnosis	diagnosis	ECM	тсм	STRG						
Ind         ON/WIN         ON/WIN <td>NGINE</td> <td>-</td> <td>-</td> <td>UNKWN</td> <td>-</td> <td>UNKWN</td> <td>-</td> <td>UNKWN</td> <td>UNKWN</td> <td>UNKWN</td> <td>UNKWN</td> <td></td> <td></td>	NGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN		
M     No indication     NG     UNKWN     UNKWN     -     -     -     UNKWN     -     UNKWN     CAN COMM CIRCUIT (U1000)     -       TER     No indication     -     UNKWN     UNKWN     UNKWN     -     UNKWN     UNKWN     CAN COMM CIRCUIT (U1000)     -       S     -     NG     UNKWN     UNKWN     UNKWN     UNKWN     -     -     -     CAN COMM CIRCUIT (U1000)     -       M E/R     No indication     -     UNKWN     UNKWN     UNKWN     -     -     -     CAN COMM CIRCUIT (U1000)     -	ſΤ	-	NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	-		
No indication        UNKWN       UNKWN        UNKWN       UNKWN       UNKWN       CAN COMM CIRCUIT (U1000)          S        NG       UNKWN       UNKWN       UNKWN          CAN COMM CIRCUIT (U1000)          M E/R       No indication        UNKWN       UNKWN          CAN COMM CIRCUIT (U1000)          me/R       No indication        UNKWN       UNKWN          CAN COMM CIRCUIT (U1000)          mptoms :         UNKWN          CAN COMM CIRCUIT (U1000)          Attach copy of         UNKWN          CAN COMM CIRCUIT (U1000)	СМ		NG	UNKWN	UNKWN	1	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT	
S       -       NG       UNKWN       UNKWN       UNKWN       -       -       -       -       CAN COMM CIRCUIT (U1000)       -         M E/R       No indication       -       UNKWN       UNKWN       -       -       -       -       CAN COMM CIRCUIT (U1000)       -         mptoms :       -       -       UNKWN       UNKWN       -       -       -       -       CAN COMM CIRCUIT (U1000)       -         M E/R       Indication       -       UNKWN       UNKWN       -       -       -       -       CAN COMM CIRCUIT (U1000)       -         Imptoms :       -       -       UNKWN       UNKWN       -       -       -       -       CAN COMM CIRCUIT (U1000)       -         Imptoms :       -       -       -       UNKWN       - <td>ETER</td> <td>No</td> <td>-</td> <td>UNKWN</td> <td>UNKWN</td> <td>UNKWN</td> <td>-</td> <td>UNKWN</td> <td></td> <td>UNKWN</td> <td>UNKWN</td> <td>CAN COMM CIRCUIT (U1000)</td> <td></td>	ETER	No	-	UNKWN	UNKWN	UNKWN	-	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
M EH         indication         -         UNKWN         -         -         -         -         (U1000)         -           mptoms :	BS		NG	UNKWN	UNKWN	UNKWN	UNKWN	-					
Attach copy of	'DM E/R		-	UNKWN	UNKWN	-		UNKWN			-		
Attach copy of													
Attach copy of	vmptoms :												
	ymptomo .												
			<b></b>				1	r					
SELECT SYSTEM				Atta	ch copy	of			At	tach cop	y of		
				SELE	CT SYS	ГЕМ			SEL	ECT SYS	STEM		
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Revision: September 2005

### **CHECK SHEET RESULTS (EXAMPLE)**

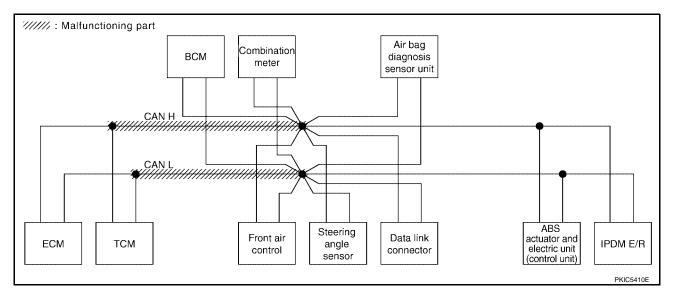
#### NOTE:

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

### Case 1

Check harness between TCM and data link connector. Refer to LAN-195, "Inspection Between TCM and Data Link Connector Circuit" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTE	M screen	lucities I	T			Red	eive diagn	osis	-		SELE-DIAG	RESULTS
012201 01012		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	_	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UV01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	_
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U 100)	-
IPDM E/R	No indication	-	UNKWN	UNKWN		—	UNKWN	—	—		CAN COMM CIRCUIT (U 100)	_



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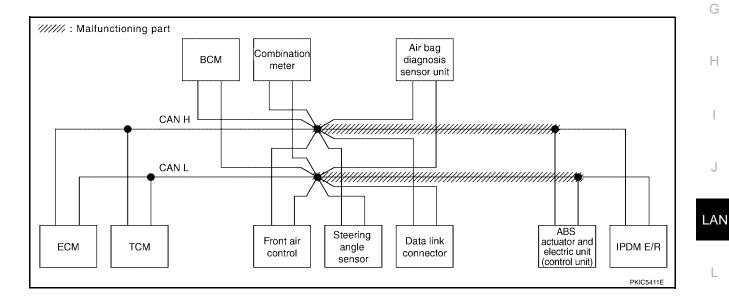
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#### Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

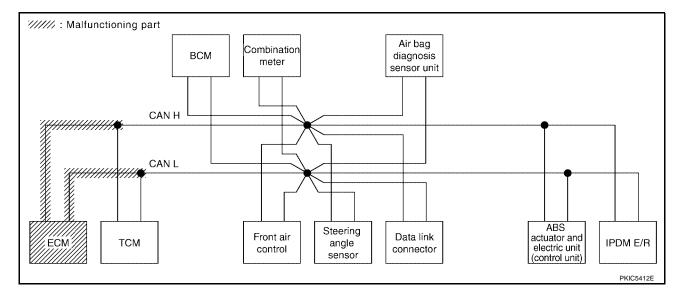
					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	1.00000					Red	eive diagn	osis				RESULTS
SELECT STOLEN	n screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	I NEGULIG
ENGINE	-		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN		CAN COMM CIRCUIT (U 00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	<del></del>
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN	I	-	-	CAN COMM CIRCUIT (U 000)	



### Case 3

Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

SELECT SYSTEM screen         Initial diagnosis         Transmit diagnosis         Tech         STRG         BCM //SEC         METER //MAA         VDC/TCS         IPDM //ABS         SELF-DIAG         RESULT SYSTEM Screen           ENGINE           UNWWN          UNWWN          UNWWN         UNWWN         UNWWN         UNWWN         UNWWN         UNWWN          CAN COMINCIPCUIT         CAN COMIN	TS
ENGINE       UNIVAR     TCM     STRG     BCM /SEC     METER /M&A     VDC/TCS /ABS     IPDM       ENGINE      UNIVAR      UNIVAR      UNIVAR     UNIVAR     UNIVAR     UNIVAR     UNIVAR     CAN COMM CIRCUIT CAN CC (UV000)       A/T      NG     UNIVAR     UNIVAR      UNIVAR     UNIVAR     UNIVAR      CAN COMM CIRCUIT (UV000)	
ENGINE          UNWN          UNWN         UNWN         UNWN         UNWN         UU         (U         000)         (I           A/T          NG         UNKWN         UNKWN           UNKWN         UNKWN          CAN COMIN CIRCUIT (U         (U         <	
	AN CIRCUI
BCM Indication NG UNKWN UNKWN UNKWN - UNKWN - UNKWN (U1000)	
METER NO - UNKWN UNKWN UNKWN - UNKWN UNKWN - UNKWN UNKWN CAN COMWCIRCUIT	
ABS - NG UNKWN UNKWN UNKWN CAN COMIY CIRCUIT	
IPDM E/R No - UNKWN UNKWN CAN COMINCIRCUIT	



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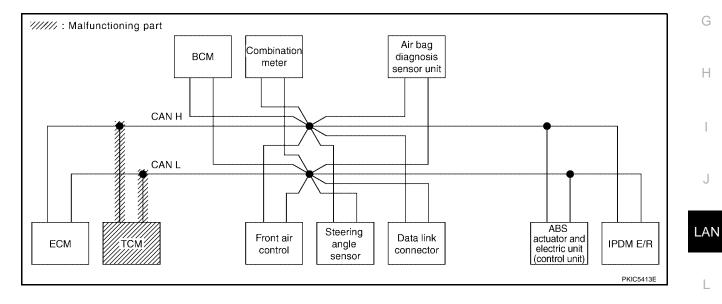
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### Case 4

Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

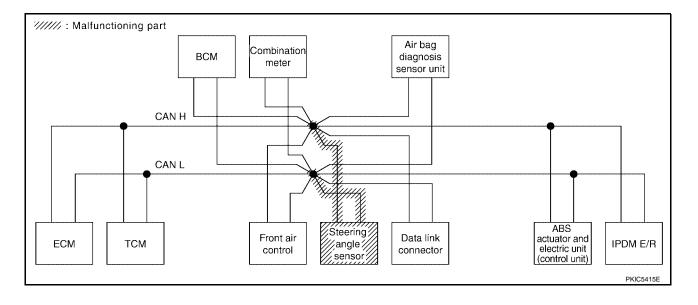
					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	Iscreen	La Mart	<b>T</b>			Red	ceive diagn	osis			SELE-DIAG	RESULTS
012201 010121		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	_	-	UNKWN		UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-			UNKOVN	UNKIN	-	CAN COMM CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	-	—	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-		UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_



### Case 5

Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	Ascreen					Rec	eive diagn	osis				RESULTS
	13010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TILOULIU
ENGINE	-	-	UNKWN		UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
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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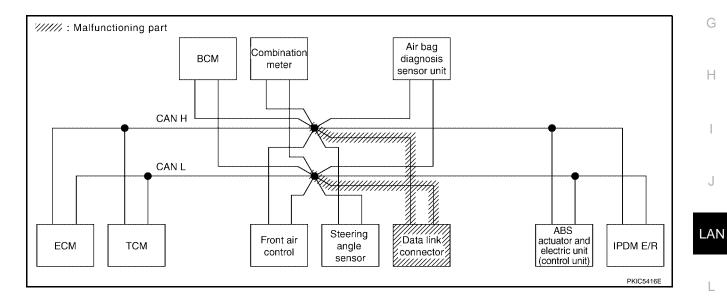
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### Case 6

Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

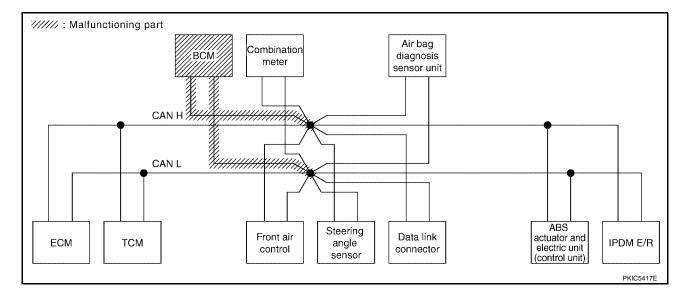
					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen	La Mart	<b>T</b>			Rec	eive diagn	osis			SELF-DIAG	BESUITS
	0010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No inclustion	NG	UNKWN	UNKWN	-		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	ł	UNKWN	UNKWN	UNKWN	1	UNKWN	1	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	1
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No inclustion	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_



### Case 7

Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	l screen	1.00.1	<b>-</b>			Red	ceive diagn	osis			SELE-DIAG	RESULTS
offer of other		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	TILOULIU
ENGINE	-	-	UNKWN	1	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UV01)
A/T	-	NG	UNKWN	UNKWN	-	-	—	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
BCM	No inclusion	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN			-		CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKIN		-		CAN COMM CIRCUIT (U 1000)	-



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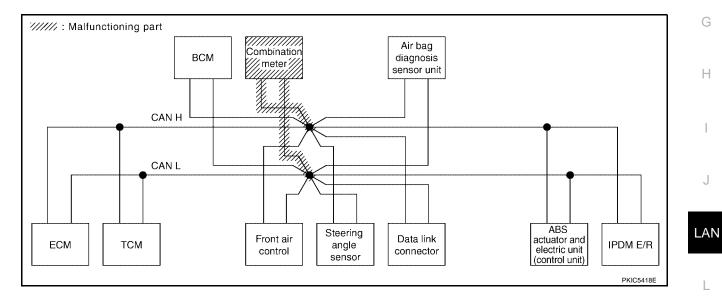
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### Case 8

Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

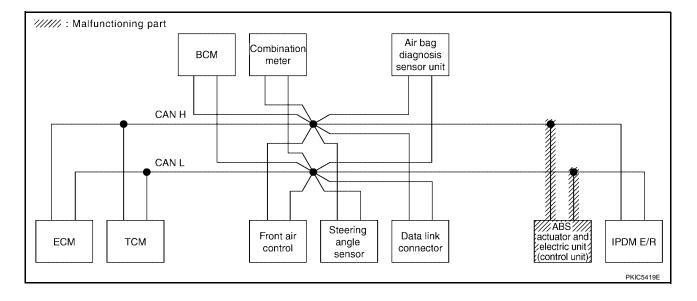
					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	Ascreen	Initial	Transmit			Red	eive diagn	osis			SELF-DIAG	RESULTS
			diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UV01)
A/T	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNION	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indivation	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMINCIRCUIT (U 100)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	—	UNKWN	-	-	—	CAN COMM CIRCUIT (U1000)	—



#### Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "<u>ABS Actuator and Electric Unit</u> (<u>Control Unit</u>) <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYST	EM screen		·			Red	ceive diagn	osis			SELF-DIAG	RESULTS
	LWISCICCI	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-	-	UNKWN		UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-			UNKWN	UNKWN		CAN COMIC CIRCUIT (U 1000)	
ВСМ	No indication	NG	UNKWN	UNKWN				UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	I	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMIC CIRCUIT (U 100)	
ABS	-	V	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		CAN COMM CIRCUIT (U 000)	1
IPDM E/R	No indication	-	UNKWN	UNKWN	—	—	UNKWN	—	-		CAN COMM CIRCUIT (U1000)	
											<b>u</b>	



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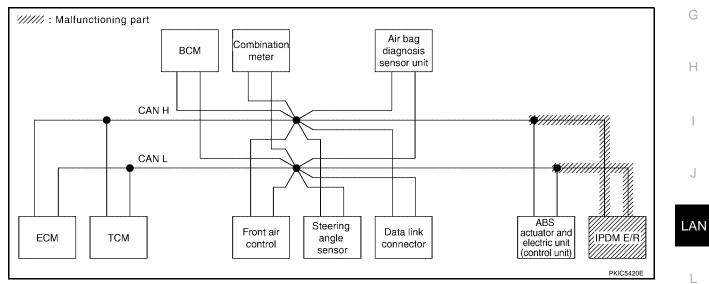
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### Case 10

Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	Ascreen		··· ··			Red	eive diagn	osis				RESULTS
	a soreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UV01)
A/T	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNYAN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKIN		
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No inclusion		UNKWN	UNKWN	-	-	UNKWN	-	-		CAN COMM CIRCUIT (U 000)	



#### Case 11

Check CAN communication circuit. Refer to LAN-203, "CAN Communication Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTE	M screen	1-11-1	<b>T</b>			Red	ceive diagn	osis			SELF-DIAG	BESUITS
022201 01012		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-		UNKWN		UNKWN			UNKWN	UNKWN		CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (UV01)
A/T	-	NG	UNKWN	UNKWN			-	UNIWN	UNKWN		CAN COMM CIRCUIT (U 100)	
BCM	No inclusion	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No inclusion		UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWIN	CAN COMINCIRCUIT (U 100)	-
ABS	-	V	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMIN CIRCUIT (U 100)	—
IPDM E/R	No incluation	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (UM000)	-
												PKIC5636E

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#### Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTE	Miscreen	1	<b>#</b>			Red	eive diagn	osis			SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN		UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN			-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN			-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	1	UNKWN	UNKWN	UNKVN		UNKWN	-	UNKIN	UNKWN	CAN COMM CIRCUIT (U 100)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	1
IPDM E/R	No indication	-	UNKWN	UNKWN	—	-	UNKWN		-	—	CAN COMM CIRCUIT (U1000)	
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### Case 13

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTI	-Miscreen	luciti e l	T			Red	ceive diagn	osis			SELE-DIAG	RESULTS
012201 0101		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
<b>A/</b> T	-	NG	UNKWN	-	-		-	-	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	_	UNKWN	-	-		-		CAN COMICIRCUIT (U 000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	_

	[CAN]	
CAN SYSTEM (TYPE 3)	PFP:23710	
Component Parts and Harness Connector Location	UK\$00536	А
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	UK\$00537	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	UKS00538	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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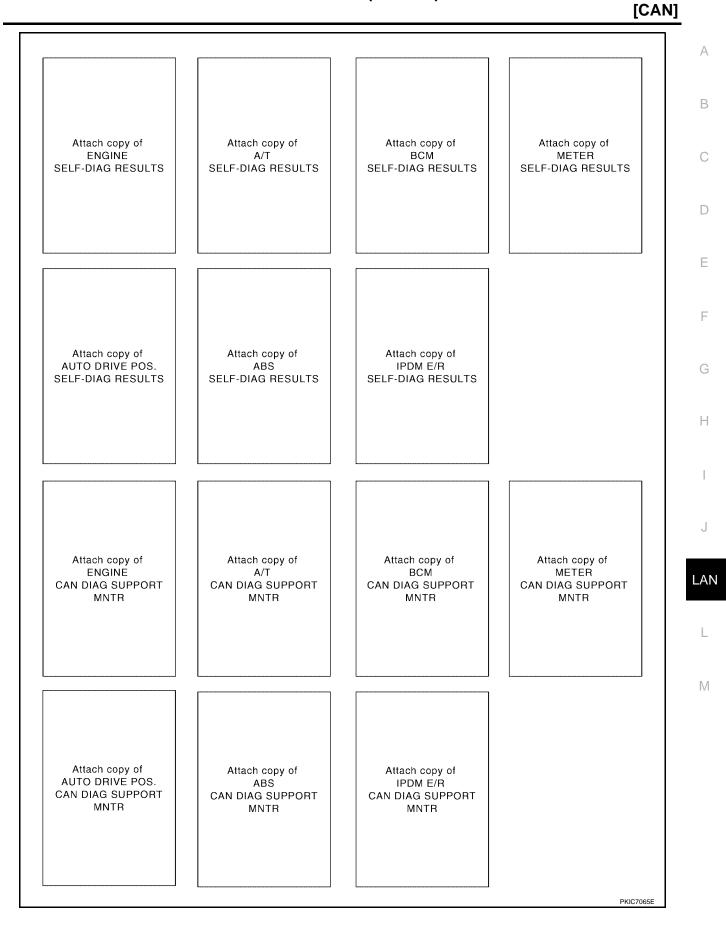
## Check Sheet

### NOTE:

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

screen  No indication No indication  No indication
No indication No indication No indication  No
No indication No indication No indication  No
No indication No indication Mo No
indication No indication No indication — No
indication No indication — No
indication  No
No



### **CHECK SHEET RESULTS (EXAMPLE)**

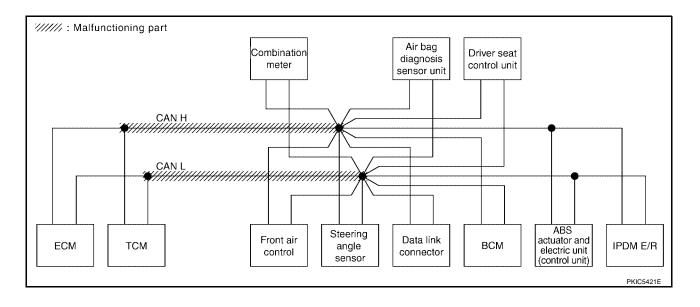
#### NOTE:

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

### Case 1

Check harness between TCM and data link connector. Refer to LAN-195, "Inspection Between TCM and Data Link Connector Circuit" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	ecroon					Red	eive diagn	osis			SELF-DIAG	RESULTS
SELECTOTOTEN	1 SUCCII	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN			-	UNKWN	UNKWN		CAN COMM CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
AUTO DRIVE POS.	No indication	-	-	-			UNKWN	UNKWN	-		CAN COMICIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKIN	UNKWN	-		-		CAN COMM CIRCUIT (U 1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN		-	UNKWN		-		CAN COMM CIRCUIT (U 000)	



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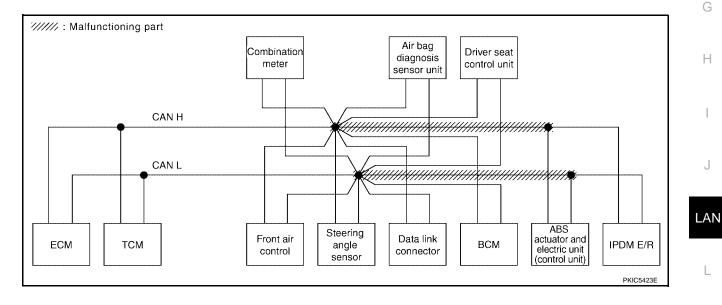
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#### Case 2

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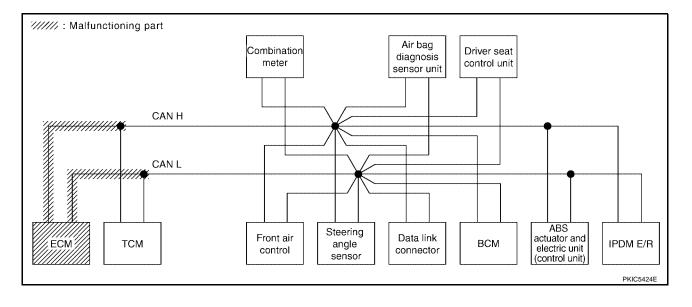
Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	screen	1-141-1	T			Red	eive diagn	osis			SELF-DIAG	BESULTS
011101010101		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	ULLI DINC	
ENGINE	-	-	UNKWN	—	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMIN CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMIN CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN		UNIXWN	UNKWN	CAN COMM CIRCUIT (U 100)	
AUTO DRIVE POS.	No indication	-		-	UNKWN		UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKIN	UNKWN	-		-	-	CAN COMIN CIRCUIT (U 100)	-
IPDM E/R	No inclusion	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMIL CIRCUIT (U 1000)	



Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	screen	1.111.1	<b>-</b>			Red	ceive diagn	osis			SELF-DIAG	BESUITS
	1 doi doin	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	_	UNKIN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	CAN COMIN CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-		—	UNKWN	UNKWN		CAN COMM CIRCUIT (U 100)	
BCM	No indication	NG	UNKWN	UNKWN				UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
AUTO DRIVE POS.	No indication	-	-		UNKWN		UNKWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN			-		CAN COMM CIRCUIT (U 1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-		CAN COMM CIRCUIT (UN00)	



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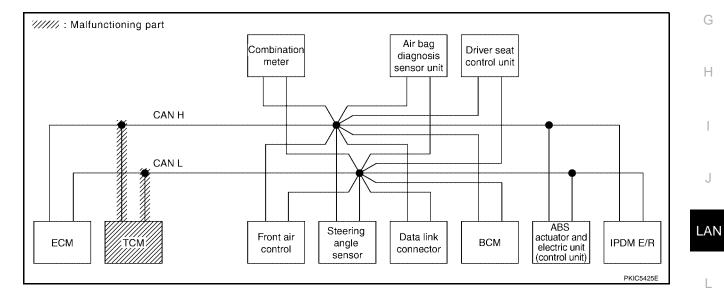
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#### Case 4

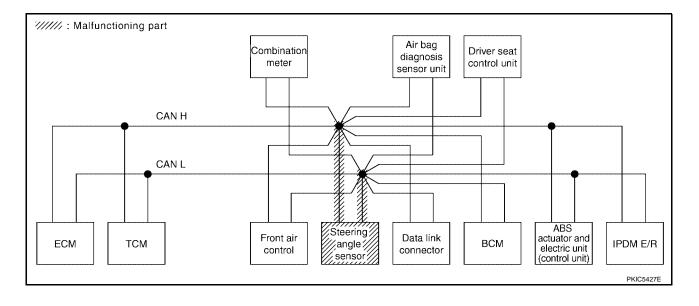
Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	Approan		_			Red	eive diagn	osis			SELF-DIAG	RESULTS
SELECT STOLEN	13010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	
ENGINE	-	-	UNKWN	-	UNKOWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 1000)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN			UNKWN	-	UNKWN	UNKWN	CAN COMICIRCUIT (U 1000)	
AUTO DRIVE POS.	No indication	—	-	-	UNKOWN	-	UNKWN	UNKWN	-	-	CAN COMICIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKIN	UNKWN	-		-		CAN COMICIRCUIT (U 100)	
IPDM E/R	No indication	-	UNKWN	UNKWN		-	UNKWN		-		CAN COMM CIRCUIT (U1000)	



Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	l scroon		_			Red	eive diagn	osis			SELF-DIAG	RESULTS
SELECT STOLEN	13010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	
ENGINE		_	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
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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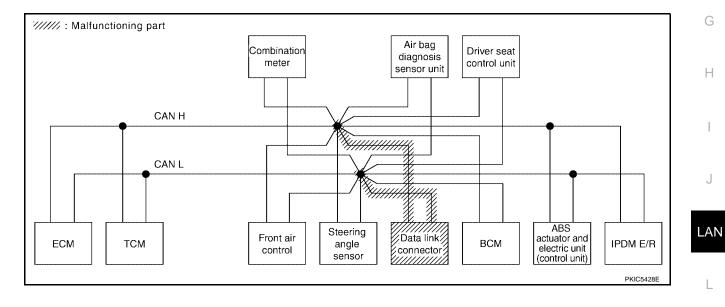
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#### Case 6

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Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

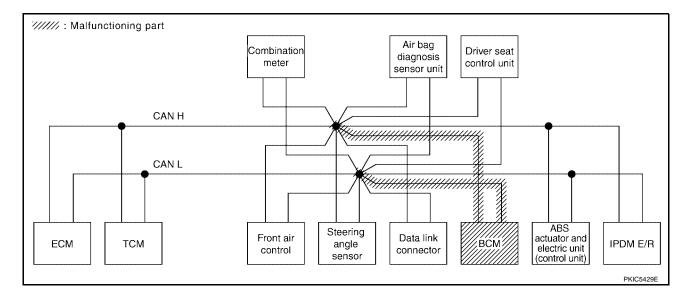
					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	screen	1.00.1	<b>-</b>			Rec	eive diagn	osis			SELE-DIAG	RESULTS
SELECTOTOTEN	3012211	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No inclusion	NG	UNKWN	UNKWN	-	—	—	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivation	-	—	-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
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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Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	l sereen					Rec	eive diagn	osis			SELEDIAC	RESULTS
SELECTOTOTEN	1 301 2 211	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI -DIAC	THESOEIS
ENGINE	_		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (UN01)
Α/T	-	NG	UNKWN	UNKWN	-			UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	N increation	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U 100)	
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	-	UNKWN	_			CAN COMM CIRCUIT (U 100)	



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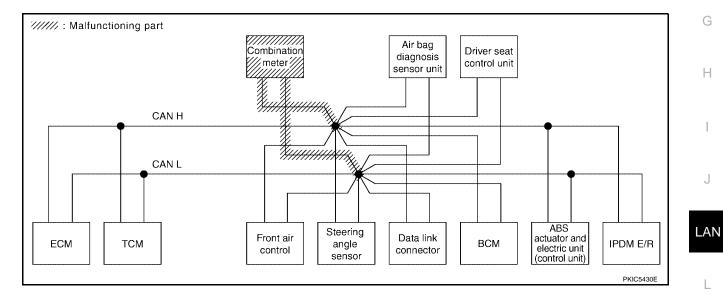
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#### Case 8

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Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen		· ·.			Red	eive diagn	osis				RESULTS
OLLEON ONOTEN	1 Sorcen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	incration	-	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
AUTO DRIVE POS.	No indication			_	UNKWN	-	UNKWN		-	-	CAN COMM CIRCUIT (U 1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-

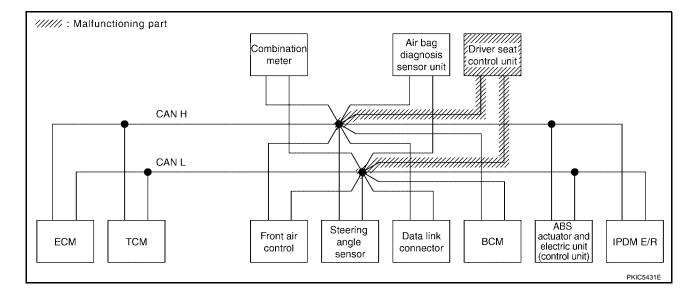


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#### Case 9

Check driver seat control unit circuit. Refer to LAN-202, "Driver Seat Control Unit Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	lecreen					Rec	eive diagn	osis				RESULTS
SELECTION	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	I NEGOLI G
ENGINE	-	-	UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	UNKWN		-	-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN		-	-	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No incluation	-	-	-	UNKWN	-	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U 000)	-
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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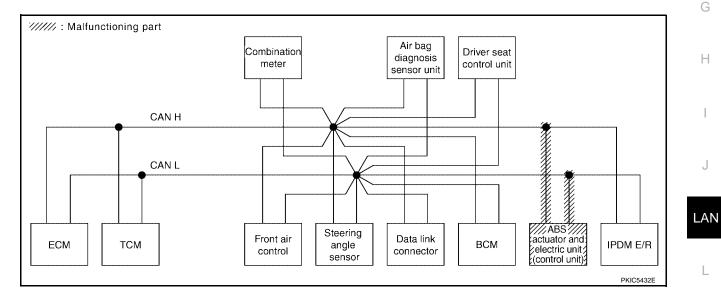
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#### Case 10

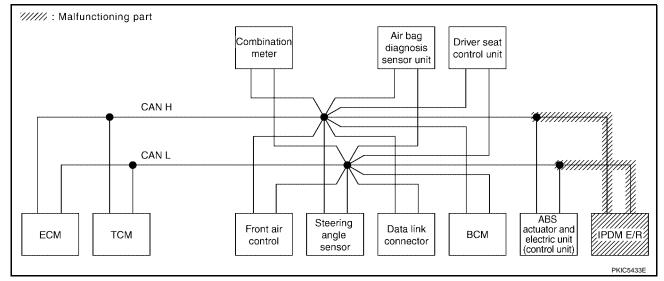
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit <u>(Control Unit) Circuit Inspection</u>".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	lscroon					Red	ceive diagn	osis			SELF-DIAG	BESHITS
SELECTOTOTEM	1 301 6611	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODERS
ENGINE		-	UNKWN		UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMIN CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-			UNKWN	UNKWN		CAN COMM CIRCUIT (U 000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u> </u>
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
AUTO DRIVE POS.	No indication	-		-	UNKWN	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
ABS	_	V	UNKWN	UNKWN	UNKIN	UNKWN		-	-	-	CAN COMIC CIRCUIT (U 1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-		UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	



#### Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	scroon					Red	ceive diagn	osis			SELF-DIAG	
SELECTION	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE			UNKWN		UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-			UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN				UNKWN			CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U 100)	
AUTO DRIVE POS.	No indication		-		UNKWN		UNKWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-		-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inclusion	_	UNKWN	UNKWN	_	-	UNKWN	-	-		CAN COMM CIRCUIT (U 000)	



#### Case 12



					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	Iscreen	1	·*····			Red	eive diagn	osis			SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE		_	UNKIN		UNKVN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN		CAN COMM CIRCUIT (U 100)	
BCM	No increation	NG	UNKWN	UNKWN			-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	N indication	1	UNKWN	UNKWN	UNKWN		UNKWN	+	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
AUTO DRIVE POS.	No individuation	-			UNKWN	-	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U 1000)	_
ABS	-	V		UNKWN	UNKIN	UNKWN		-	-		CAN COMM CIRCUIT (U 100)	
IPDM E/R	No individuation	-	UNKWN	UNKWN	-		UNKWN		-		CAN COMM CIRCUIT (U 000)	

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#### Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	screen	1.111.1	<b>-</b>			Red	ceive diagn	osis			SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE		-	UNKWN	_	UNKON		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (U 001)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKOVN		UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
AUTO DRIVE POS.	No indication	-			UNKIN		UNKWN	UNKWN	-		CAN COMM CIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN				-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-		UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_

#### Case 14

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	scroon		·			Red	ceive diagn	osis			SELE-DIAG	RESULTS
	Secon	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	-	-	-	-	-	UNKWN		CAN COMIC CIRCUIT (U 1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	+	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication		-		UNKWN	-	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMICIRCUIT (U 1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN		-		CAN COMM CIRCUIT (U1000)	-

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	[CAN]
CAN SYSTEM (TYPE 4)	PFP:23710
Component Parts and Harness Connector Location	UK\$00532
Refer to LAN-25, "Component Parts and Harness Connector Location".	
Schematic	UK\$00533
Refer to LAN-26, "Schematic".	
Wiring Diagram — CAN —	UKS00534
Refer to LAN-27, "Wiring Diagram — CAN —".	

## Check Sheet

## NOTE:

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

A/T		Initial diagnosis NG NG NG - NG - NG -	UNKWN UNKWN UNKWN UNKWN	ECM UNKWN UNKWN UNKWN UNKWN UNKWN	TCM UNKWN — — UNKWN UNKWN	DIAG SU Front air control UNKWN	PPORT M Receive of STRG 	diagnosis BCM /SEC UNKWN UNKWN UNKWN	METER /M&A UNKWN UNKWN UNKWN UNKWN 	UNKWN 	IPDM E/R UNKWN UNKWN UNKWN UNKWN  	SELF-DIAG	
ENGINE	No No Idication No Idication No Idication No	diagnosis NG NG NG NG NG NG	diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN  UNKWN UNKWN UNKWN	Control	STRG 	BCM /SEC UNKWN UNKWN UNKWN UNKWN	/M&A UNKWN UNKWN UNKWN UNKWN UNKWN	/ABS UNKWN UNKWN  UNKWN  UNKWN	E/R UNKWN UNKWN UNKWN UNKWN 	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	CAN COMM CIRCUIT (U1001) — — — — — — — — — — — —
A/T	No hdication No idication No idication 	NG NG NG - NG NG	UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN  UNKWN UNKWN UNKWN	Control		/SEC UNKWN UNKWN UNKWN UNKWN	/M&A UNKWN UNKWN UNKWN UNKWN UNKWN	/ABS UNKWN UNKWN  UNKWN  UNKWN	E/R UNKWN UNKWN UNKWN UNKWN 	(U1000) CAN COMM CIRCUIT (U1000) — CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	(U1001)       
A/T	No No No No No No dication No No No	NG NG NG — NG	UNKWN UNKWN UNKWN  UNKWN	UNKWN UNKWN UNKWN — UNKWN	UNKWN UNKWN UNKWN		   UNKWN	UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	UNKWN  UNKWN 		(U1000) CAN COMM CIRCUIT (U1000) — CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	(U1001)       
Display control unit BCM indi METER indi AUTO DRIVE POS. indi ABS indi ABS indi ABS indi Symptoms : Symptoms : Display cont Contirmation/Adjustm CAN COMM CAN CIRC 1 CAN CIRC 2 CAN CIRC 3	No ndication No ndication No ndication  No	NG NG — NG	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN 	  UNKWN	UNKWN 	UNKWN UNKWN  UNKWN	 UNKWN 		CAN COMM CIRCUIT (U1000)  CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	-
BCM indi METER indi AUTO DRIVE POS. indi ABS indi ABS indi ABS indi Symptoms : Display cont Confirmation/Adjustm CAN CIRC 1 CAN CIRC 1 CAN CIRC 2 CAN CIRC 3	No ndication No ndication No ndication — No	NG  NG	UNKWN UNKWN — UNKWN	UNKWN UNKWN — UNKWN	UNKWN UNKWN UNKWN			UNKWN UNKWN —	UNKWN  UNKWN 			CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
Display cont Confirmation/Adjustm CAN CIRC 1 CAN CIRC 3	ndication No ndication No ndication — No	  NG	UNKWN 	UNKWN  UNKWN	UNKWN UNKWN UNKWN		 UNKWN	UNKWN UNKWN	UNKWN	UNKWN 	UNKWN 	(U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	-
METER indi AUTO DRIVE POS. ABS indi ABS indi ABS indi Symptoms : Symptoms : Display cont Confirmation/Adjustm CAN COMM CAN CIRC 1 CAN CIRC 2 CAN CIRC 3	No ndication No ndication  No				UNKWN UNKWN	-		UNKWN	UNKWN		-	(U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
Display cont Confirmation/Adjustm CAN CIRC 1 CAN CIRC 2 CAN CIRC 3	idication  No	NG	UNKWN	UNKWN	UNKWN		UNKWN		-		-	(U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
Display cont Confirmation/Adjustm CAN CIRC 1 CAN CIRC 2 CAN CIRC 3												(U1000) CAN COMM CIRCUIT	
Display cont Confirmation/Adjustm CAN CIRC 1 CAN CIRC 2 CAN CIRC 3			UNKWN	UNKWN		_		UNKWN		_			
Display cont Confirmation/Adjustm CAN COMM CAN CIRC 1 CAN CIRC 2 CAN CIRC 3													
Confirmation/Adjustm CAN COMM CAN CIRC 1 CAN CIRC 2 CAN CIRC 3													
Confirmation/Adjustm CAN COMM CAN CIRC 1 CAN CIRC 2 CAN CIRC 3				tach cop ECT SY						ch copy CT SYS			
Confirmation/Adjustm CAN COMM CAN CIRC 1 CAN CIRC 2 CAN CIRC 3	ontrol un	nit Trans	lation Sh	neet: Re	write the	e followi	ng nam	es. and	put a ch	eck mar	k on the	above check shee	t table.
CAN CIRC 1 CAN CIRC 2 CAN CIRC 3					et table					stment		······	table Display
CAN CIRC 2 CAN CIRC 3		   			diagnos		C.	AN CIR	C 5				R/M&A
CAN CIRC 3				Transm	it diagno	osis	C	AN CIR	C 6			-	-
				l	всм		C.	AN CIR	C 7			IPDN	IE/R
CAN CIRC 4				Į	ECM			AN CIR					-
				Front	air cont	rol	C	AN CIR	C 9			-	-
				CAI	N DIAG	displ	ach cop ay contr ORT MO	ol unit	Check S	heet			

**LAN-85** 

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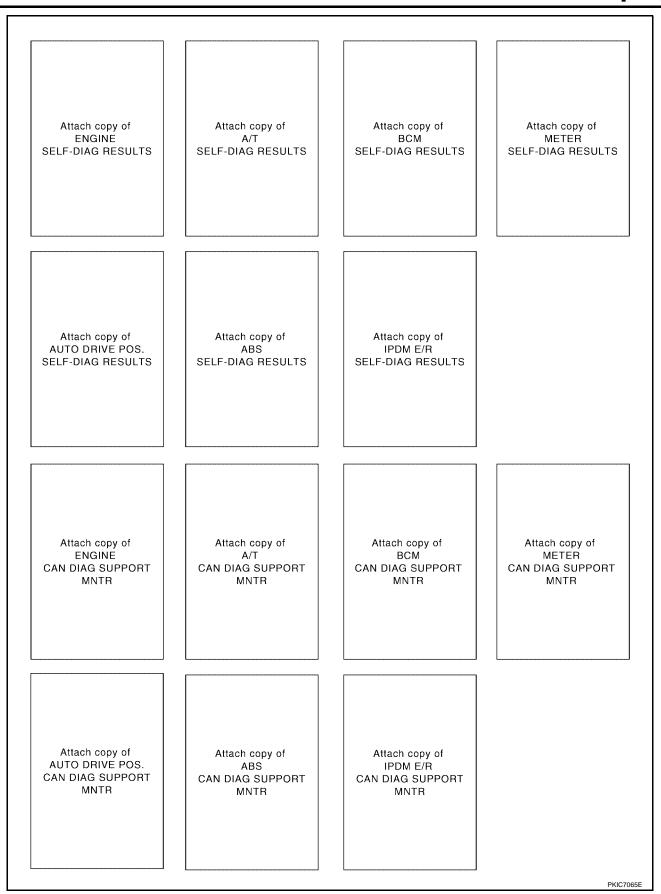
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### **CHECK SHEET RESULTS (EXAMPLE)**

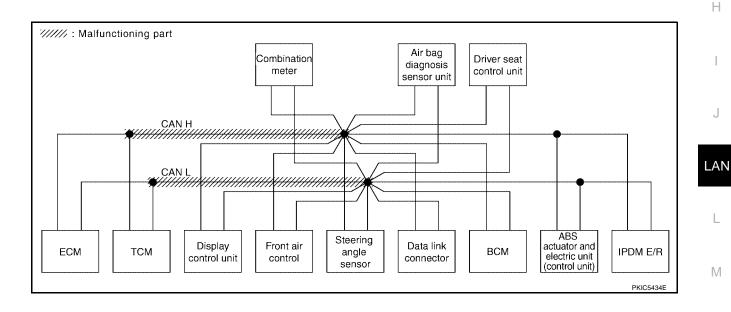
#### NOTE:

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

#### Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		- "				Receive	diagnosis				SELE-DIAG	RESULTS
OLLEOT OTOTEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	E/R		
ENGINE	-	—	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	1	-	—	UNKWN	UNKWN	+	CAN COMM CIRCUIT (U 1000)	—
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN		UNKWN	UNKWN		UNKWN		_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
AUTO DRIVE POS.	No indication		-	-	UNKWN	-	-	UNKWN	UNKWN		-	CAN COMM CIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-		-	CAN COMICIRCUIT (U 000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-		-	UNKWN		—	-	CAN COMIC CIRCUIT (U 1000)	_



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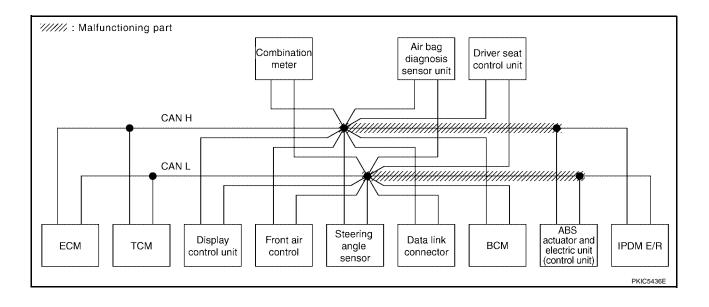
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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Ascreen						Receive	diagnosis				SELE-DIAG	RESULTS
SELECT STOLEN	screen	Initial diagnosis	Transmit diagnosis		тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TIESOEIS
ENGINE	-		UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMY CIRCUIT (U 1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNK	-	
BCM	No indication	NG	UNKWN	UNKWN	-	-		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	-		UNKWN	-		UNKWN	CAN COMM CIRCUIT (U 000)	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKON	-	-		-	CAN COMIC CIRCUIT (U 1000)	
IPDM E/R	inclusion	-	UNKWN	UNKWN	-	-	-	UNKWN	-			CAN COMM CIRCUIT (U 100)	



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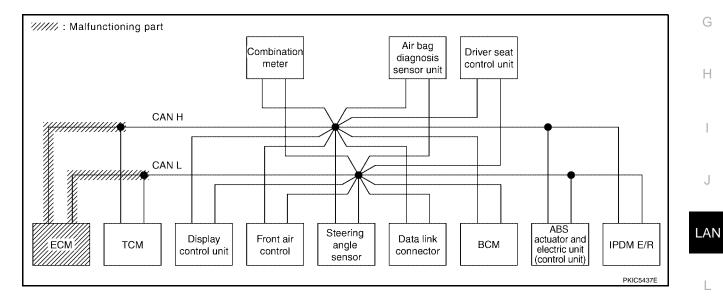
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## Case 3

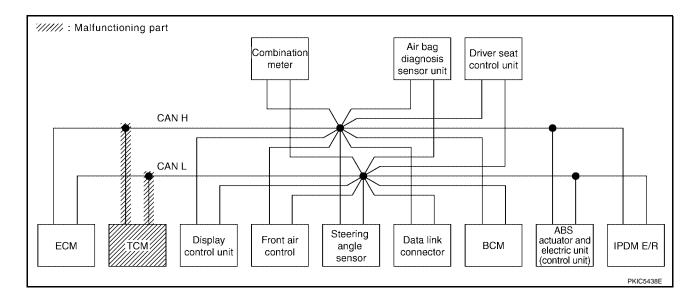
Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELF-DIAG	RESULTS
SELECTOTOTEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	/M&A	VDC/TCS /ABS	E/R		
ENGINE			UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	1	1	_	UNKWN	UNKWN	-	CAN COMIN CIRCUIT (U 100)	
Display control unit		NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	I	1	ł	CAN COMIN CIRCUIT (U 100)	
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMIN CIRCUIT (U 1000)	



Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

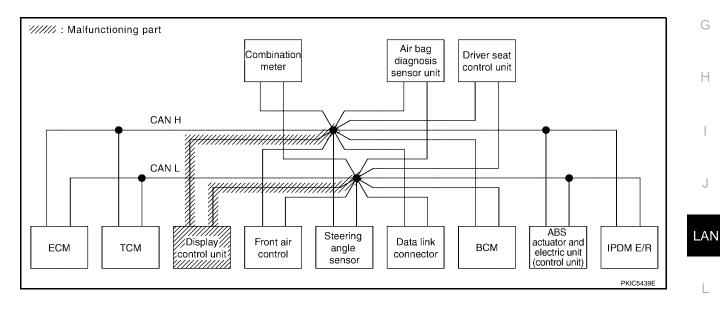
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l screen						Receive	diagnosis				SELF-DIAG	BESUITS
	10010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINC	THEODERO
ENGINE	_	—	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN		I	1	ł	I	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 100)	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	—	UNKWN		_
BCM	No indication	NG	UNKWN	UNKWN	1	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	UNKWN	-	-	CAN COMIL CIRCUIT (U 100)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	I	UNKWN	-	-	1	-	CAN COMIN CIRCUIT (U 1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN		-	-	UNKWN		-	-	CAN COMM CIRCUIT (U1000)	—



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Check display control unit circuit. Refer to LAN-198, "Display Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	1NTR					
SELECT SYSTEM	lscroon						Receive	diagnosis				SELE-DIAG	RESULTS
SELECTOTOTEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	
ENGINE			UNKWN		UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	—	-	-	UNKWN	UNKWN	1	CAN COMM CIRCUIT (U1000)	
Display control unit	-	NG	UNKWN	UNKWN	-	UNIWN	—	UNION	UNKWN	—	UNKWN		-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication		-		UNKWN	-		UNKWN	UNKWN		-	CAN COMM CIRCUIT (U1000)	
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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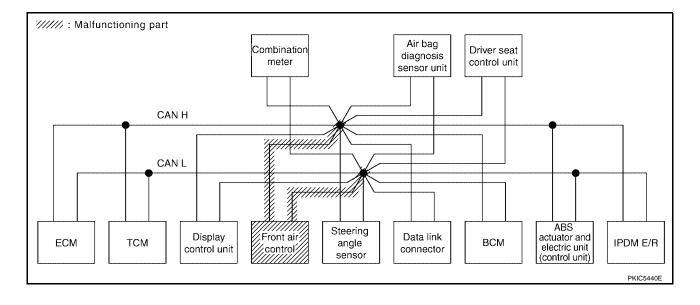
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Check front air control circuit. Refer to LAN-198, "Front Air Control Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
ULLEUT GTOTEN	1 Soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE			UNKWN	-	UNKWN		-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	_	NG	UNKWN	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)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	—	I	-	UNKWN	—	I	UNKWN	UNKWN	—	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-		-	ł	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		-	-	CAN COMM CIRCUIT (U1000)	-



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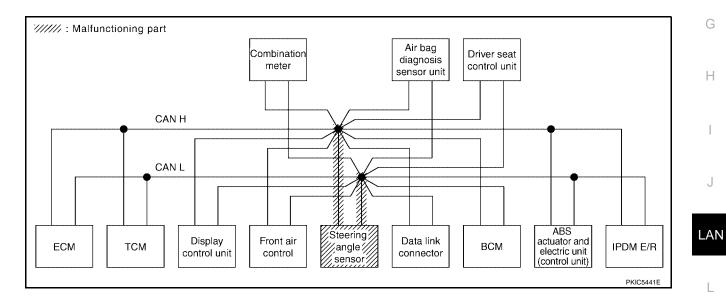
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#### Case 7

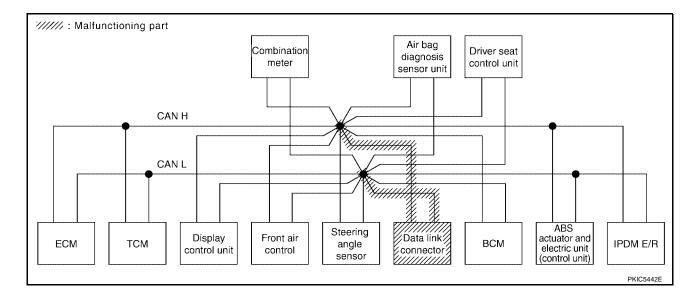
Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELF-DIAG	RESULTS
SEECT STOLE	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		TILOULIU
ENGINE			UNKWN	-	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	-	_	—	-	UNKWN	UNKWN	1	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)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	ł	—	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication		-	_	UNKWN	-	-	UNKWN	UNKWN		-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-		-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-			UNKWN	-	-		CAN COMM CIRCUIT (U1000)	



Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	Iscreen	1-11-1					Receive	diagnosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-		UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	1	-	UNKWN	UNKWN	1	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)	-
METER	No inditation	—	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No inditation	-	-	1	UNKWN	-	ł	UNKWN	UNKWN	1	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indvation	-	UNKWN	UNKWN	-	-	-	UNKWN	-	Ι	1	CAN COMM CIRCUIT (U1000)	



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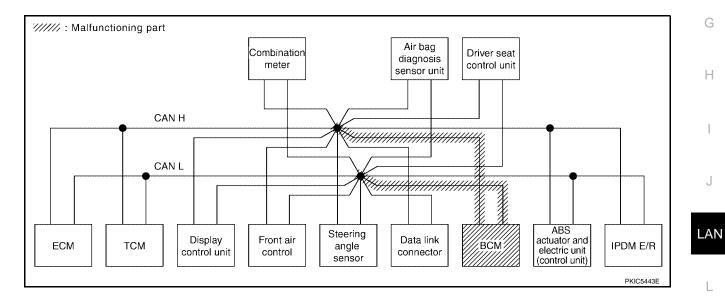
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#### Case 9

Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

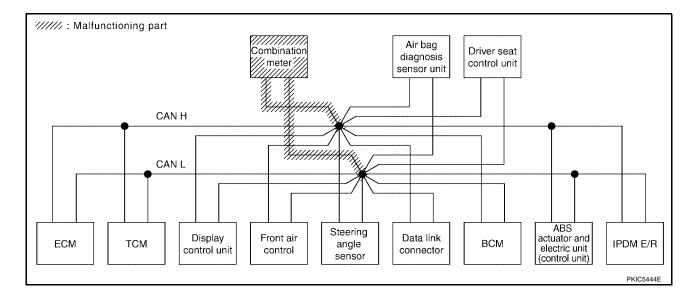
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
OLLEOT OTOTEN		Initial diagnosis	Transmit diagnosis		тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE	-		UNKWN	-	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	—	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
Display control unit	-	NG	UNKWN	UNKWN		UNKWN		UNION	UNKWN		UNKWN	-	-
BCM	N indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	-	UNKVN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKIN	UNKWN	-	-	CAN COMIN CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	+	I	-	ł	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	1	-	1	CAN COMIN CIRCUIT (U 1000)	



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Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		i,				Receive	diagnosis				SELE-DIAG	RESULTS
OLLEOF OF OTOTEN	1 Soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE			UNKWN	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN		-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inclustion	—	UNKWN	UNKWN	UNKWN	-	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-		-	ł	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-		UNKWN		-	-	CAN COMM CIRCUIT (U1000)	-



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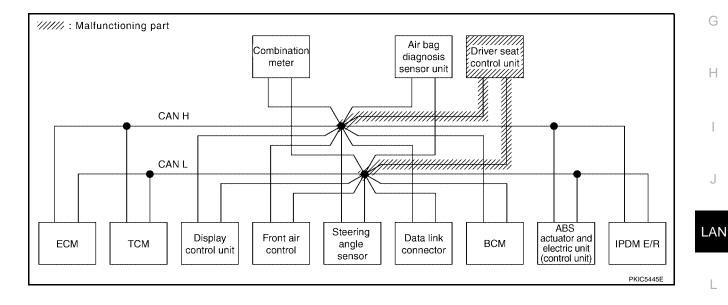
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#### Case 11

Check driver seat control unit circuit. Refer to LAN-202, "Driver Seat Control Unit Circuit Inspection" .

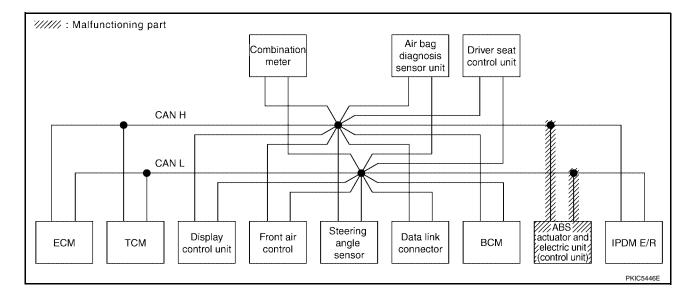
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	scroon						Receive	diagnosis				SELF-DIAG	RESULTS
SELECT STOLEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	
ENGINE	-	—	UNKWN	-	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	—	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN		UNKWN	UNKWN		UNKWN	-	_
BCM	No indication	NG	UNKWN	UNKWN	-	-			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-		UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	Nr indication	-	-	-	UNKWN	1	—	UNKWN	UNKWN	1	-	CAN COMIN CIRCUIT (U 1000)	
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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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "<u>ABS Actuator and Electric Unit</u> (<u>Control Unit</u>) <u>Circuit Inspection</u>".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen		-				Receive	diagnosis					BESUITS
JEEDT GTGTEN	1 Soleen	Initial diagnosis	Transmit diagnosis		тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE			UNKWN	-	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN		-	-	-	UNKWN	UNKWN	-	CAN COMICIRCUIT (U 1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN		—
BCM	No indication	NG	UNKWN	UNKWN	-	-		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	1	UNKWN	UNKWN	UNKWN	-		UNKWN	1		UNKWN	CAN COMM CIRCUIT (U 000)	-
AUTO DRIVE POS.	No indication		-	-	UNKWN	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
ABS	-	V	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMICIRCUIT (U 000)	
IPDM E/R	No indication	—	UNKWN	UNKWN	-	-	—	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_



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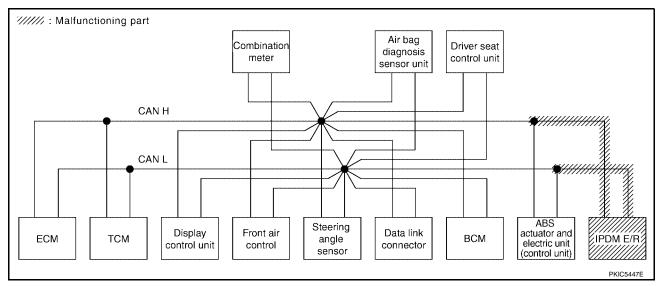
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#### Case 13

Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	lecreen		-				Receive	diagnosis				SELF-DIAG	RESULTS
SELECTOTOTEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-		UNKWN	-	UNKWN	—	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UV01)
A/T	-	NG	UNKWN	UNKWN	1	—	—	-	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)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 000)	
AUTO DRIVE POS.	No indication		-	—	UNKWN	-	—	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	+	I	I	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-		-	UNKWN	-	-		CAN COMIL CIRCUIT (U 100)	



#### Case 14



					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen		-				Receive	diagnosis				SELE-DIAG	RESULTS
OLLEOF OF OTEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE			UNKWN	_	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMIN CIRCUI (UN01)
A/T	_	NG	UNKWN	UNKWN	-	-	—	-	UNKWN		-	CAN COMIC CIRCUIT (U 1000)	
Display control unit	-	NG	UNIWN	UNKWN		UNIWN	—	UNKWN	UNKWN	—	UNKWN	-	-
BCM	No indivation	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN		-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	<u> </u>
AUTO DRIVE POS.	No inditiation		-	—	UNKWN	-		UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U 100)	
ABS	-	₩.	UNIWN	UNKWN		-	UNKIN	-	-	1	-	CAN COMIC CIRCUIT (U 1000)	
IPDM E/R	incration	-	UNKWN	UNKWN	-		-	UNKWN	-	-		CAN COMM CIRCUIT (U 1000)	

#### Case 15

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	Iscreen						Receive	diagnosis				SELF-DIAG	BESUITS
	1 doi cen	Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	-	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 000)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	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)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	—	UNKWN	UNKWN	-	-	CAN COMINCIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	+	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	+	UNKWN		-	-	CAN COMM CIRCUIT (U1000)	

### Case 16

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection"

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen	1-11-1	·				Receive	diagnosis				SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIK	
ENGINE	-		UNKWN	1	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T		NG	UNKWN	-	—	—		_		UNKWN		CAN COMM CIRCUIT (U 100)	<u> </u>
Display control unit	-	NG	UNKWN	UNKWN		UNKWN		UNKWN	UNKWN		UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-		-	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication		UNKWN	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication		-	-	UNKWN	-		UNKWN	UNKWN		-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	-	UNKWN	-	-	-		—	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	—		-	CAN COMM CIRCUIT (U1000)	-

	[CAN]	
CAN SYSTEM (TYPE 5)	PFP:23710	
Component Parts and Harness Connector Location	UKS00531	А
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	UKS0053J	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	UK\$0053K	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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## **Check Sheet**

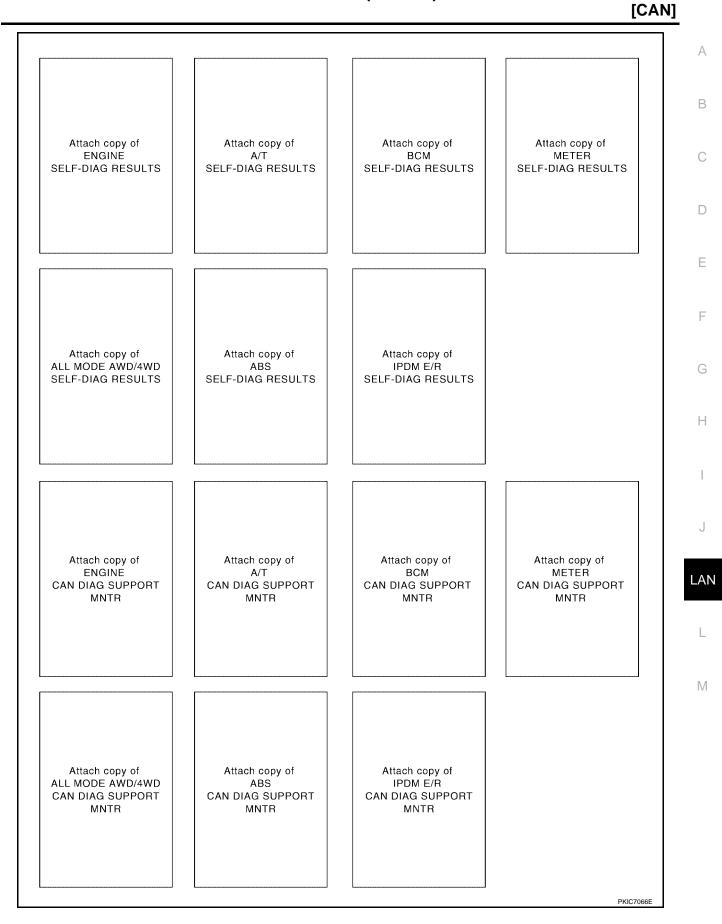
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#### NOTE:

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

METER in ALL MODE AWD/4WD ABS RDM E/R		NG NG NG NG NG		UNKWN UNKWN UNKWN UNKWN			Receive of BCM /SEC UNKWN UNKWN UNKWN	METER /M&A UNKWN		UNKWN		SELF-DIAG CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)	
AVT in GCM in METER in ALL MODE AWD/4WD ABS PDM E/R in	No indication No indication  No	diagnosis NG NG NG NG	diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	UNKWN 		/SEC UNKWN — UNKWN —	UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN 	UNKWN UNKWN UNKWN		(U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	(U1001) 
AVT in GCM in METER in ALL MODE AWD/4WD ABS PDM E/R in	No indication No indication — — No	NG NG NG NG	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN			UNKWN UNKWN UNKWN	UNKWN   UNKWN	UNKWN — UNKWN	UNKWN UNKWN —	(U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	(U1001) 
ALL MODE AWD/4WD ABS PDM E/R in	No indication No indication — — No	NG — NG NG	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN			UNKWN  UNKWN 	  UNKWN		UNKWN UNKWN —	(U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	-
ALL MODE AWD/4WD ABS PDM E/R in	indication No indication  No	NG NG	UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN		UNKWN 	UNKWN	— — UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	-
IETER in ILL MODE AWD/4WD BS 20M E/R in	No indication   No	NG NG	UNKWN UNKWN	UNKWN UNKWN	UNKWN UNKWN		_	UNKWN			_	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
ILL MODE AWD/4WD IBS IDM E/R in	— — No	NG	UNKWN	UNKWN	UNKWN	UNKWN	_		UNKWN	UNKWN		CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
PDM E/R in	No										_	CAN COMM CIRCUIT	
I.!!!			UNKWN	UNKWN	-		UNKWN		-				
			· · · · · · · · · · · · · · · · · · ·		I				I		_	CAN COMM CIRCUIT (U1000)	
ymptoms :												<b>.</b>	
			۸+	ttach co	ov of				A+t-a	ch copy	of		
			SEL	ECT SY	STEM				SELE(	CT SYS	TEM		
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## **CHECK SHEET RESULTS (EXAMPLE)**

#### NOTE:

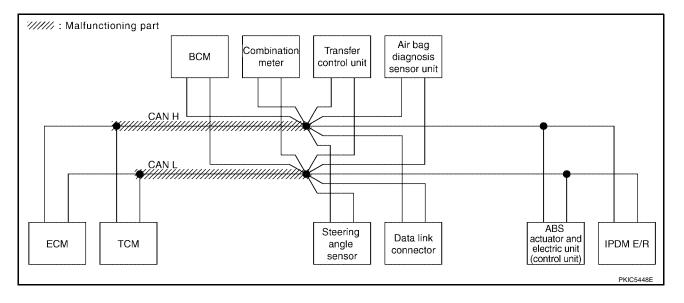
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

#### Case 1

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Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	Initial	T				Receive	diagnosis				SELF-DIAG	BESUITS
022201 010121			Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	/ABS	I E/R I		
ENGINE	-	—	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T		NG	UNKWN	UNKWN				UNKWN	UNKWN	UNKWN	-	CAN COMICIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	1	1	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN		-	-	UNKWN	1	UNKWN	-	CAN COMIN CIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	_	CAN COMV CIRCUIT (U 100)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	I	-	CAN COMM CIRCUIT (U 000)	4
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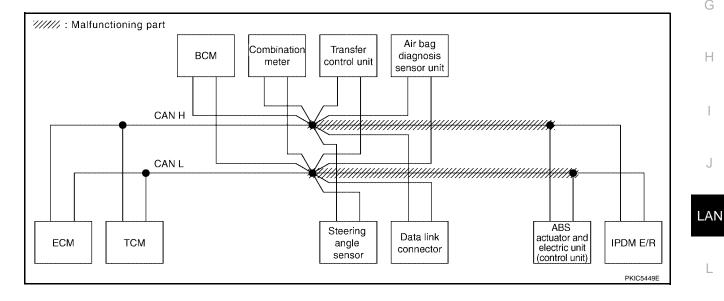
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#### Case 2

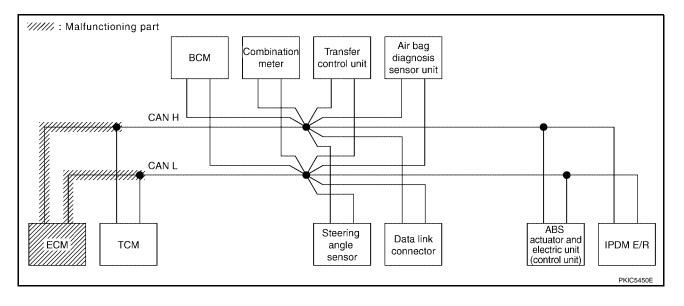
Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-196, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELF-DIAG	
SELECT STOLEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	/IVI&A	AWD/4WD	/ABS	E/H		
ENGINE			UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMIN CIRCUIT (UN01)
A/T	<u></u>	NG	UNKWN	UNKWN	-				UNKWN	UNKWN			
всм	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMIN CIRCUIT (U 100)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNIWN	-	-	UNION	-	-	CAN COMIN CIRCUIT (U 100)	
IPDM E/R	Ng inchation	-	UNKWN	UNKWN	-		UNKWN	-	-			CAN COMM CIRCUIT (U 1000)	



Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
SELECT OTOTEM	Screen	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	
ENGINE	-		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	CAN COMM CIRCU (UN01)
A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 000)	
всм	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	—	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	1	CAN COMIN CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 000)	-
IPDM E/R	No indication		UNKWN	UNKWN	—	_	UNKWN	-		1	_	CAN COMM CIRCUIT (U 1000)	_



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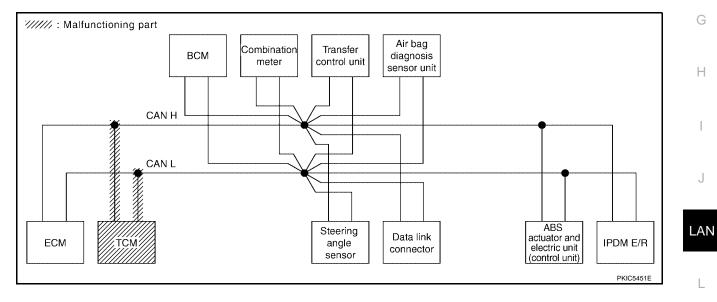
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#### Case 4

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Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

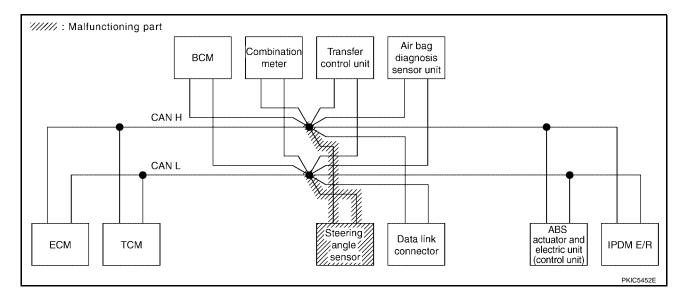
SELECT SYSTEM screen	diagnosis	Transmit diagnosis				Receive	diagnosis				SELF-DIAG				
	diagnosis							Receive diagnosis							
ENGINE -				тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R					
	-	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UV00)	CAN COMM CIRCUIT (UN01)			
A/T -	NG	UNKWN	UNKWN	-	—	-	UNKWN	UNIWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)				
BCM No indica	I NG	UNKWN	UNKWN	+	-	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-			
METER No indica		UNKWN	UNKWN	UNKWN	_	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	-			
ALL MODE AWD/4WD	NG	UNKWN	UNKWN	UNKWN	I	-	UNKWN	-	UNKWN	ł	CAN COMM CIRCUIT (U 100)				
ABS —	NG	UNKWN	UNKWN		UNKWN	-		UNKWN	-	_	CAN COMM CIRCUIT (U 1000)				
IPDM E/R No indica		UNKWN	UNKWN	1	١	UNKWN	-			1	CAN COMM CIRCUIT (U1000)	-			



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Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

	CAN DIAG SUPPORT MNTR												
SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis				Receive	SELF-DIAG RESULTS					
				ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	I	UNKWN	ł	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	—	UNKWN	_	CAN COMM CIRCUIT (U1000)	Ι
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	4	-	UNKWN	1	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	1	Ι	UNKWN	-	—	-	-	CAN COMM CIRCUIT (U1000)	-

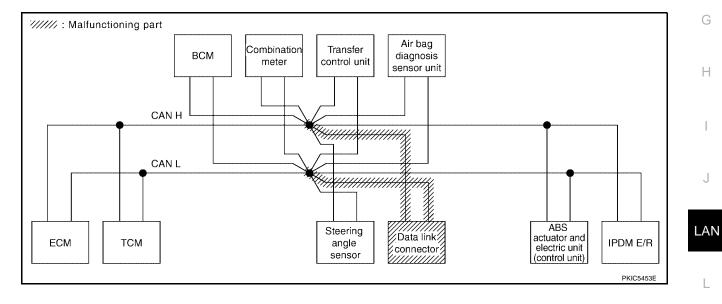


### Case 6

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Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon						Receive	diagnosis				SELE-DIAG	RESULTS
OLLEOT OTOTEM		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	-			UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	Ny indivation	NG	UNKWN	UNKWN	-			UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	N ind ation		UNKWN	UNKWN	UNKWN	-	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	_		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	_
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN		-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inclustion		UNKWN	UNKWN	-		UNKWN		-	-	-	CAN COMM CIRCUIT (U1000)	



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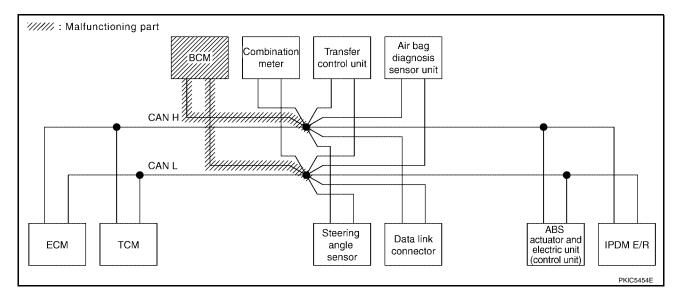
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Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon		_				Receive	diagnosis				SELF-DIAG	
SELECT STSTEM	3010011	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	I NEGOLI G
ENGINE	-		UNKWN	-	UNKWN	-	UNKIN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
<b>4</b> ∕T		NG	UNKWN	UNKWN	-	_	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ЗСМ	ind Nation	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN		UNKWN	-	CAN COMM CIRCUIT (U1000)	<u> </u>
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
PDM E/R	No indication		UNKWN	UNKWN		-	UNKINN			-	-	CAN COMM CIRCUIT (U 000)	

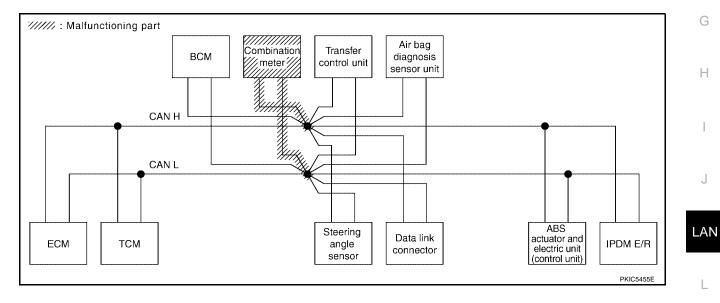


### Case 8

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Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
OLLEOT OTOTEM		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	GEEI -DIAC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMIN CIRCUIT (UN01)
<b>A/</b> T		NG	UNKWN	UNKWN	-	_	-	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U 1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD		NG	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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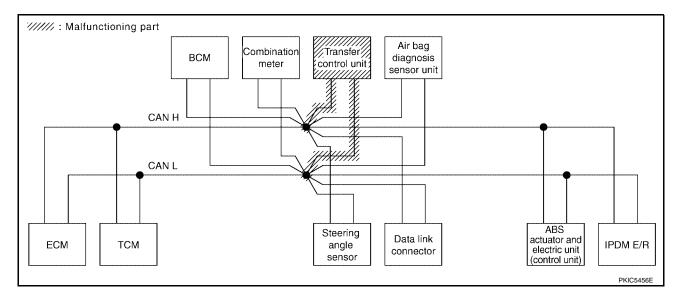
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Check transfer control unit circuit. Refer to LAN-201, "Transfer Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		·,				Receive	diagnosis				SELE-DIAG	RESULTS
OLLOTOTOT	Server	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	—	UNKWN	-	UNKWN	1	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UM01)
A/T	-	NG	UNKWN	UNKWN	-	1	1	UNKWN	UNIWN	UNKWN	-	CAN COMM CIRCUIT (U 000)	
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	I	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	_	-		—		_	CAN COMM CIRCUIT (U 1000)	—
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	_	UNION	-	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	—	-	-	CAN COMM CIRCUIT (U1000)	—



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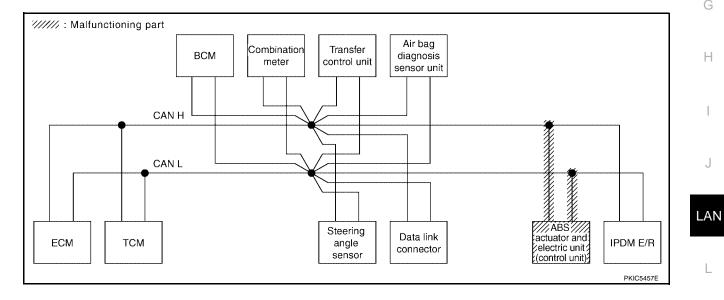
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## Case 10

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit <u>(Control Unit) Circuit Inspection</u>".

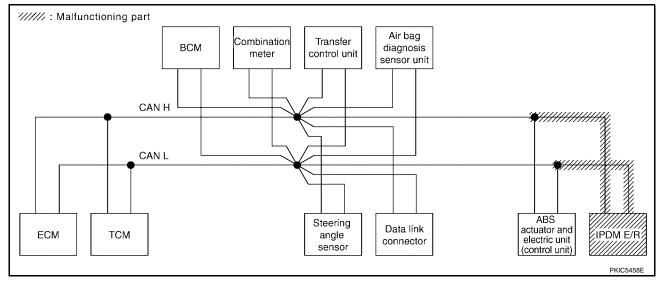
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon						Receive	diagnosis				SELF-DIAG	RESULTS
SELECT STOLEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE	-		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UV01)
A/T	<u></u>	NG	UNKWN	UNKWN	-			UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-		UNKWN	UNKWN	CAN COMICIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMIN CIRCUIT (U 1000)	_
ABS	-	×	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNION		-	CAN COMIC CIRCUIT (U 1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN		-		-	CAN COMM CIRCUIT (U1000)	-



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#### Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
SELECT STOTEM	3016611	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U V01)
A/T		NG	UNKWN	UNKWN	_	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN			UNKWN	UNION	CAN COMM CIRCUIT (U 100)	-
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN		UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN		-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	Ng indivation		UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 000)	



## Case 12



					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		<b>-</b>				Receive	diagnosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE	—	—	UNKWN	-	UNKWN	-		UNKIVN	UNKWN	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	_	-	UNKIVN	UNKWN	UNKWN	-	CAN COMICIRCUIT (U 100)	-
BCM	Ng ind ation	NG	UNKWN	UNKWN	-	—	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	N inclusion		UNKWN	UNKWN	UNKWN	_	UNKWN		_	UNKWN	UNKWN	CAN COMICIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (U 1000)	<u> </u>
ABS	-	V	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNIOWN	-	-	CAN COMMCIRCUIT (U 100)	
IPDM E/R	No inclustion		UNKWN	UNKWN	-		UNKWN	-	-	-	-	CAN COMICIRCUIT (U 000)	
												······	
													PKIC5685E

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELF-DIAG	RESULTS
OLLEOT OTOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	—	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		-	UNKWN	-		-	CAN COMM CIRCUIT (U 000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	-		UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

## Case 14

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

SELECT SYSTEM scr		Initial	Transmit				Receive of	diagonosis					
			Iransmit					alagnosis				SELE-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	-	-	_	-	-	_	UNKWN	-	CAN COMICIRCUIT (U 1000)	
BCM	No dication	NG	UNKWN	UNKWN	-	_	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No dication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	ł		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	-	UNKWN	_	-	-			-	CAN COMIC CIRCUIT (U 1000)	
IPDM E/R inc	No dication		UNKWN	UNKWN	-	_	UNKWN	-	-		-	CAN COMM CIRCUIT (U1000)	-

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	[CAN]
CAN SYSTEM (TYPE 6)	PFP:23710
Component Parts and Harness Connector Location	UKS0053M
Refer to LAN-25, "Component Parts and Harness Connector Location".	
Schematic	UK\$0053N
Refer to LAN-26, "Schematic".	
Wiring Diagram — CAN —	UK\$00530
Refer to LAN-27, "Wiring Diagram — CAN —".	

## **Check Sheet**

## NOTE:

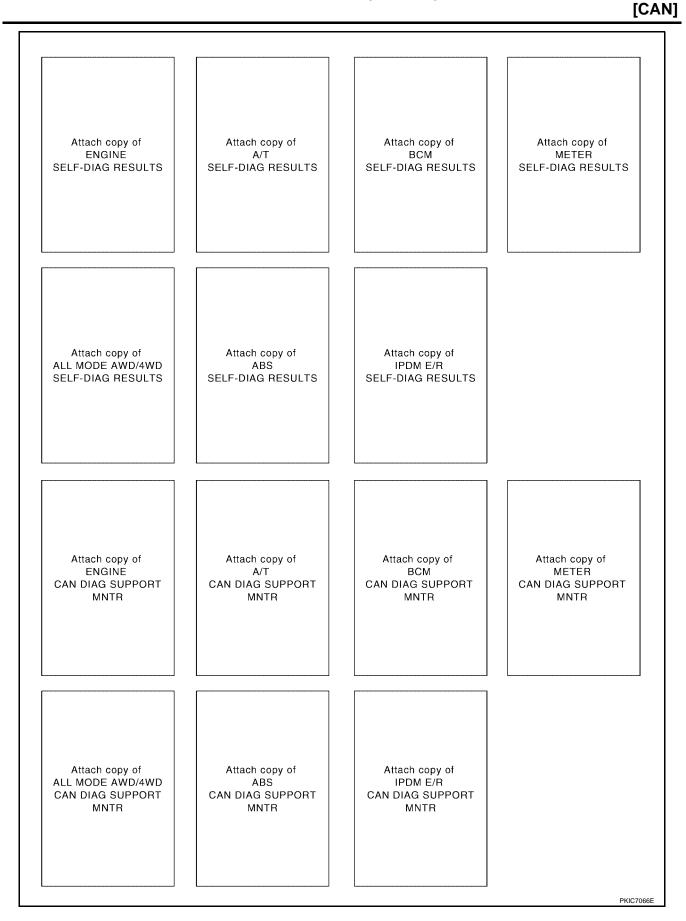
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Image: No indication         Image: No				T		CAN	DIAG SU							
diagnosis       ecm       TCM       STRG       BCM       METER       AWD/WD       VOC/TCS       IPOM         3INE       -       -       UNKWN       -       UNKWN       CAN COMM CIRCUIT       CAN COMM CIRCUIT       -       UNKWN       UNKWN       CAN COM CIRCUIT       -       UNKWN       UNKWN       CAN COM CIRCUIT       -       CAN COM CIRCUIT       -       -       UNKWN       CAN COM CIRCUIT       -       -       UNKWN       -       -       CAN COM CIRCUIT       -       -       CA	SELECT SYSTEM	l screen	Initial	Transmit			r	1					SELF-DIAC	RESULTS
AINE         -         -         UNKWN         -         UNKWN					ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
Image: Subset of the state indication         NG         UNKWN	NGINE	-		UNKWN	-	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	(U1000)	
M         indication         NG         UNKWN         DNKWN         -         -         -         UNKWN         -         -         -         UNKWN         (U1000)         -           TER         No         -         UNKWN         UNKWN         -         UNKWN         -         -         UNKWN         UNKWN         UNKWN         -         -         UNKWN         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         CAN COMM CIRCUIT         -         -         -         CAN COM CIRCUIT         -         -	Т		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	(U1000)	
Indication         Dokkinik         Oskkinik         Dokkinik         Dokkinik         Oskkinik	СМ	indication	NG	UNKWN	UNKWN	-		-	UNKWN	_		UNKWN	(U1000)	
INDE_AND_AND         IND         IND         ONAVIN         IND         ONAVIN         IND         ONAVIN         IND         ONAVIN         IND         IND <td>ETER</td> <td></td> <td>-</td> <td>UNKWN</td> <td>UNKWN</td> <td>UNKWN</td> <td>-</td> <td>UNKWN</td> <td>-</td> <td>-</td> <td>UNKWN</td> <td>UNKWN</td> <td>(U1000)</td> <td>_</td>	ETER		-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	(U1000)	_
S         -         NG         UNKWN UNKWN UNKWN         -         -         -         UNKWN         -         -         -         -         (U1000)         -         -         -         -         CAN COMM CIRCUIT         - <td>LL MODE AWD/4WD</td> <td>-</td> <td>NG</td> <td>UNKWN</td> <td>UNKWN</td> <td>UNKWN</td> <td></td> <td>-</td> <td>UNKWN</td> <td></td> <td>UNKWN</td> <td>-</td> <td>(U1000)</td> <td></td>	LL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		-	UNKWN		UNKWN	-	(U1000)	
MER         indication         UNKWN         -	BS		NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN			(U1000)	
Attach copy of Attach copy of	'DM E/R			UNKWN	UNKWN	—	-	UNKWN		-		-		



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## **CHECK SHEET RESULTS (EXAMPLE)**

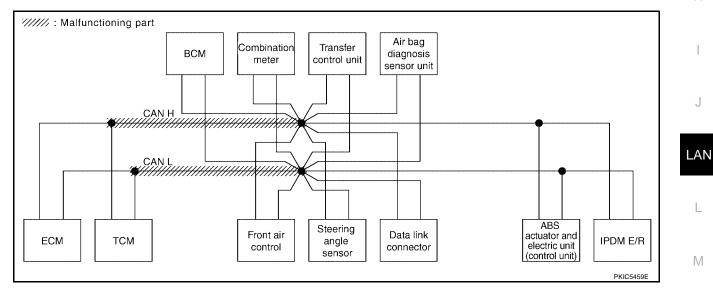
#### NOTE:

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

### Case 1

Check harness between TCM and data link connector. Refer to LAN-195, "Inspection Between TCM and Data Link Connector Circuit" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	Iscreen						Receive	diagnosis				SELF-DIAG	RESULTS
OLLEOT OTOTEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	_	—	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN	UNKWN	-	CAN COMIN CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	—	CAN COMIN CIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN		-	CAN COMIN CIRCUIT (U 100)	-
IPDM E/R	No indication		UNKWN		—		UNKWN	-	-	—	—	CAN COMM CIRCUIT (U 100)	-



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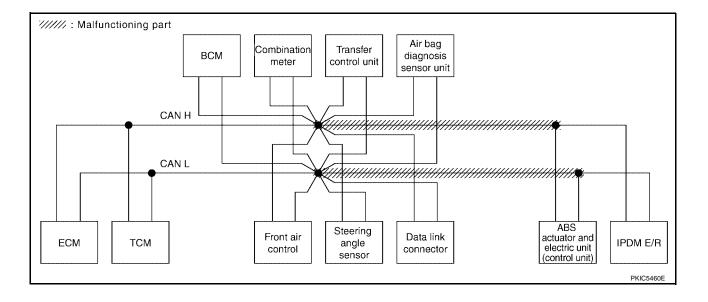
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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon		·.				Receive	diagnosis				SELE-DIAG	RESULTS
	Soreen	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE			UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-	_	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	1	UNKWN	UNKWN	UNKWN	1	UNKWN	1	1	UNKWN		CAN COMM CIRCUIT (U 1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNIOWN	-	-	CAN COMY CIRCUIT (U 100)	_
IPDM E/R	No inclustion	-	UNKWN	UNKWN		-	UNKWN			-	-	CAN COMM CIRCUIT (U 1000)	-



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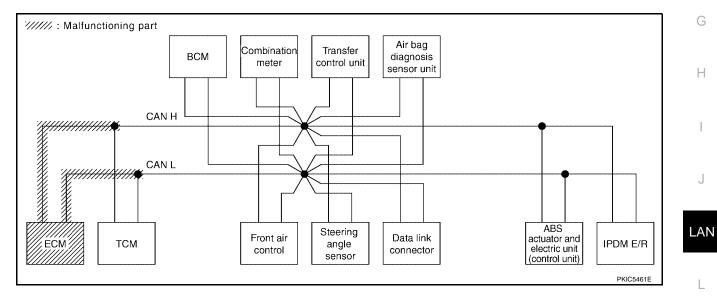
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## Case 3

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Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

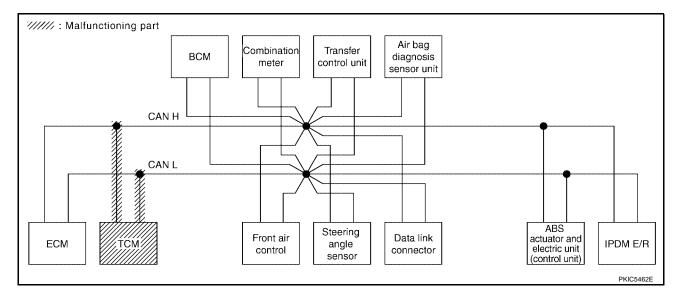
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen	Initial	Terrar and its				Receive	diagnosis				SELF-DIAG	BESUITS
office of other			Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLEI DIVIC	
ENGINE		-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 000)	
всм	No indication	NG	UNKWN	UNKWN	-	-	—	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	ł	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMICIRCUIT (U 000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN		-	CAN COMM CIRCUIT (U 000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN					CAN COMM CIRCUIT (U 000)	_



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Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

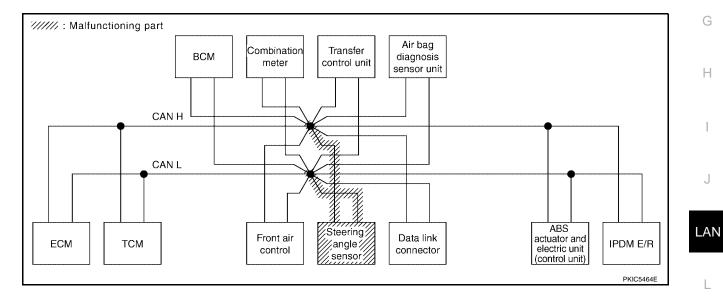
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
or contraction of the contractio	ooreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE			UNKWN	-	UNKWN	1	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCL (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 000)	—
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	I	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	-		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U 1000)	-
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN		—	UNKWN	-	—	CAN COMIC CIRCUIT (U 000)	
IPDM E/R	No indication	—	UNKWN	UNKWN	-	1	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	—



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Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELF-DIAG	RESULTS
OLLEOT OTOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	1	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN		—	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	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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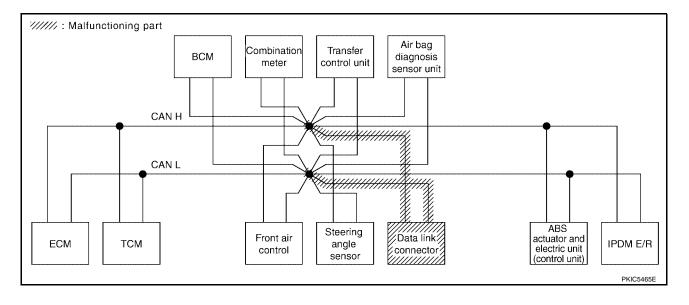
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Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon		·,				Receive	diagnosis				SELE-DIAG	RESULTS
OLLEOT OTOTEM	Soleen	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	—	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	UNKWN		-	-	UNKWN	UNKWN	UNKWN	1	CAN COMM CIRCUIT (U1000)	-
BCM	Ny indivation	NG	UNKWN	UNKWN	-	-	-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN		-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inclustion		UNKWN	UNKWN	-	-	UNKWN	-			-	CAN COMM CIRCUIT (U1000)	



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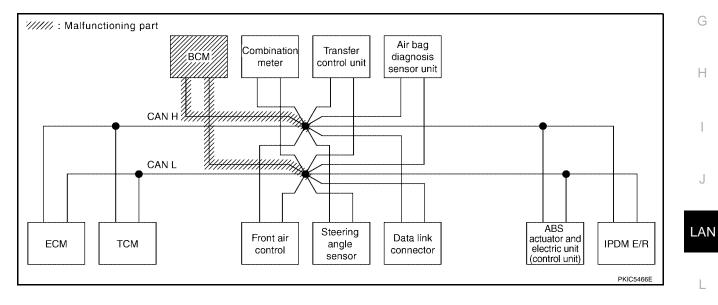
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## Case 7

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Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

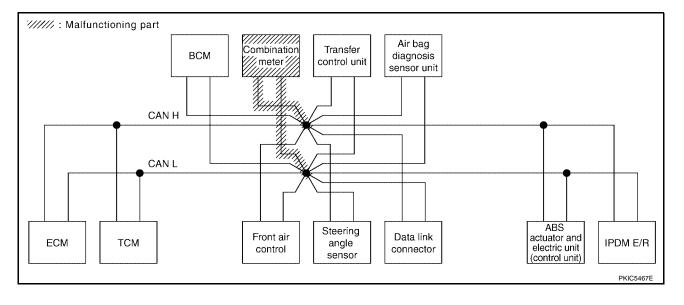
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		-				Receive	diagnosis				SELF-DIAG	BESUITS
OLLOT OTOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE	-		UNKWN	-	UNKWN	-	UNKIN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UV01)
<b>A</b> /T		NG	UNKWN	UNKWN	-	_	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ЗСМ	inchation	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	_	UNKWN	-	-	UNKWN	UNKWN	CAN COMICIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
PDM E/R	No indication		UNKWN	UNKWN	-	1	UNKINN	-	-	1	-	CAN COMIC CIRCUIT (U 1000)	



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Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		-				Receive	diagnosis				SELE-DIAG	RESULTS
OLLEOT OTOTEN		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMIN CIRCUI (UN01)
A/T		NG	UNKWN	UNKWN	-	_	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	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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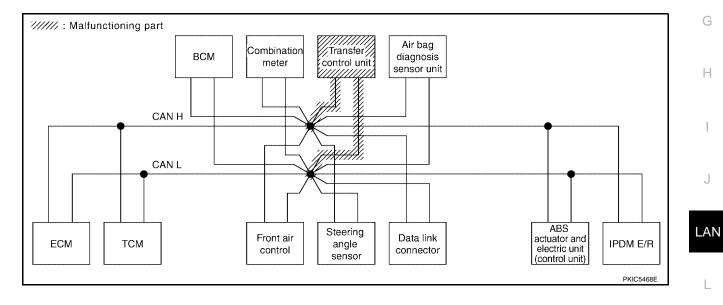
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### Case 9

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Check transfer control unit circuit. Refer to LAN-201, "Transfer Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESILITS
SELECT STOLEM		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE	—		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN		-	-	UNKWN	UNIWN		—	CAN COMIC CIRCUIT (U 000)	-
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN				CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	_	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN		UNKWN	-		UNKWN	-		-	CAN COMIN CIRCUIT (U 1000)	_
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN			UNIWN	-	—	CAN COMIL CIRCUIT (U 1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	-

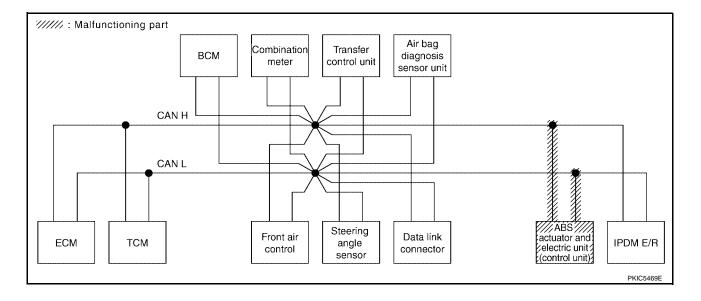


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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "<u>ABS Actuator and Electric Unit</u> (<u>Control Unit</u>) <u>Circuit Inspection</u>".

SELECT SYSTEM scr		Initial											
			***				Receive	diagnosis				SELF-DIAG	BESUITS
	•		Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	-	UNKWN	-	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
<b>A/</b> T	-	NG	UNKWN	UNKWN	ł	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
BCM ind	No dication	NG	UNKWN	UNKWN	-	-	-	UNKWN	1		UNKWIN	CAN COMM CIRCUIT (U1000)	-
METER	No dication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	+		UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	—	UNKWN	-	CAN COMN CIRCUIT (U 1000)	_
ABS	-	V	UNKWN	UNKWN	UNKWN	UNIWN	-	-	UNION		-	CAN COMN CIRCUIT (U 100)	_
PDM E/R inc	No dication		UNKWN	UNKWN	-	-	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	



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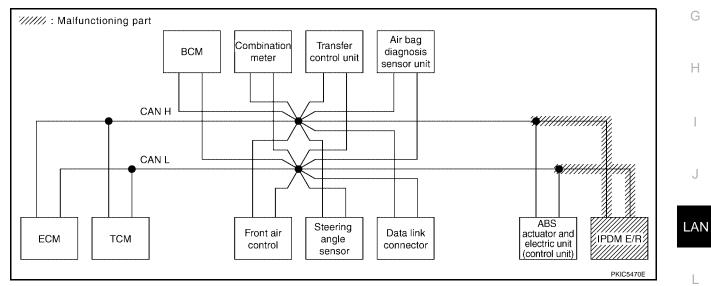
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# Case 11

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Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
OLLEOT OTOTEM		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	/IVI&A		VDC/TCS /ABS	E/H		
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	-	—		UNKWN	UNKWN		CAN COMM CIRCUIT	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	-		UNKWN	-	F	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	Ι	UNKWN	UNKWN	UNKWN	—	UNKWN	-	Ι	UNKWN	UNIWN	CAN COMIC CIRCUIT (U 100)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	—	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	Ι	ł	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No incluation		UNKWN	UNKWN		_	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 000)	-



### Case 12

Check CAN communication circuit. Refer to LAN-203, "CAN Communication Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	Initial	T				Receive	diagnosis				SELF-DIAG	BESUITS
0111010101011		diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		THEODERO
ENGINE	-	—	UNKWN		UNKWN	-	UNKVN	UNKIVN	UNKWN	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 1000)	CAN COMIN CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	ł		UNKWN	UNKWN		CAN COMIN CIRCUIT (U 1000)	-
BCM	Ng ind Nation	NG	UNKWN	UNKWN	—	—	—	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No.	-	UNKWN	UNKWN	UNKWN	-	UNKWN		-	UNKWN	UNKWN	CAN COMIC CIRCUIT (U 100)	1
ALL MODE AWD/4WD		NG	UNKWN	UNKIN	UNKWN	—		UNKWN		UNKWN		CAN COMM CIRCUIT (UN00)	
ABS		V	UNKWN	UNKWN	UNKWN	UNIWN	-		UNKWN	-	-	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No incluation		UNKWN	UNKWN	-	-	UNKWN	-	—	-	-	CAN COMIN CIRCUIT (U 1000)	-
													PKIC5685E

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon						Receive	diagnosis				SELE-DIAG	RESULTS
SELECT STOLEN	Screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAG	ALSOLIS
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMIL CIRCUIT (U 1000)	CAN COMM CIRCU (UV01)
A/T		NG	UNKWN	UNKWN	4	_	-	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	—	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indication	-	UNKWN	UNKWN		—	UNKWN	+	-		UNKWN	CAN COMINCIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	—	UNKWN	-	CAN COMIN CIRCUIT (U 1000)	I
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	-	UNKWN	1	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	1	-	UNKWN	-	-	I	ł	CAN COMM CIRCUIT (U1000)	1

## Case 14

Γ

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-204, "IPDM E/R Ignition Relay</u> <u>Circuit Inspection"</u>.

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon		1.				Receive	diagnosis				SELE-DIAG	RESULTS
JEECT GIGTEM		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	—		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	l	1	1	-		ł	UNKWN	1	CAN COMIC CIRCUIT (U 1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	1	UNKWN	1		-	-	1	1	CAN COMM CIRCUIT (U 1000)	—
IPDM E/R	No indication	-	UNKWN	UNKWN	ł	1	UNKWN	1	1	I	ļ	CAN COMM CIRCUIT (U1000)	_
													PKIC5687E

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CAN SYSTEM (TYPE 7)	PFP:23710	
Component Parts and Harness Connector Location	UK\$0053Q	A
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	UK\$0053R	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	UKS0053S	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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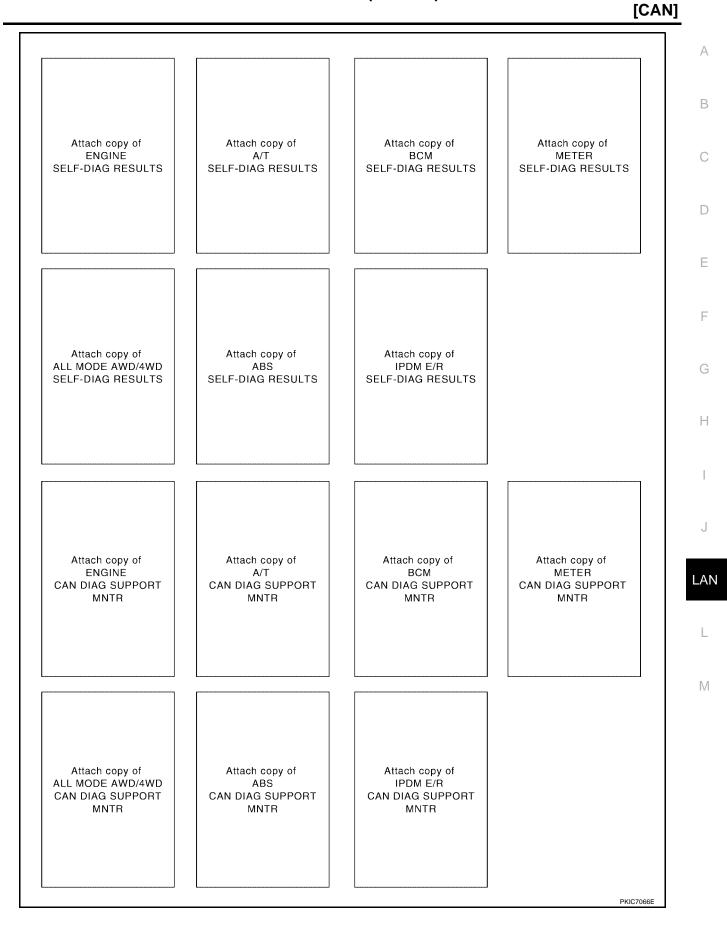
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## Check Sheet

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

			1		CAN	DIAG SU	PPORT N						
SELECT SYSTE	A screen	Initial	Transmit				Receive BCM	diagnosis		VDC/TCS	IPDM	SELF-DIAC	<b>RESULTS</b>
		diagnosis	diagnosis	ECM	тсм	STRG	/SEC	METER /M&A	AWD/4WD	/ABS	E/R		
INGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
VT		NG	UNKWN	UNKWN	-			UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
IETER	No indication	-	UNKWN	UNKWN	UNKWN	—	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4W	ho indication	-	UNKWN	UNKWN	UNKWN	UNKWN			-	UNKWN		CAN COMM CIRCUIT (U1000)	
NBS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN		-	CAN COMM CIRCUIT (U1000)	
PDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN			—		CAN COMM CIRCUIT (U1000)	
				tach col ECT SY					Atta SELE	ch copy CT SYS	r of TEM		

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## **CHECK SHEET RESULTS (EXAMPLE)**

#### NOTE:

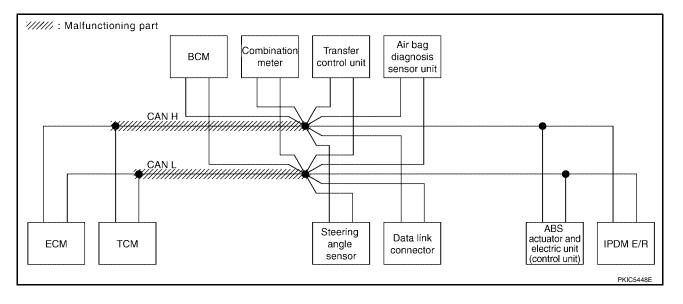
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

## Case 1

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Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		-				Receive	diagnosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	I /M&A		VDC/TCS /ABS	E/H		
ENGINE	-		UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	—	NG	UNKWN	UNKWN	-	1	-	UNKWN	UNKWN	UNKWN	-	CAN COMIN CIRCUIT (U 100)	
всм	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	1	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-			UNKWN	-	CAN COMIN CIRCUIT (U 100)	_
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMIN CIRCUIT (U 100)	-
IPDM E/R	No indication	—	UNKWN		-	1	UNKWN	—	-	-	-	CAN COMIC CIRCUIT (U 100)	
													PKIC5689E



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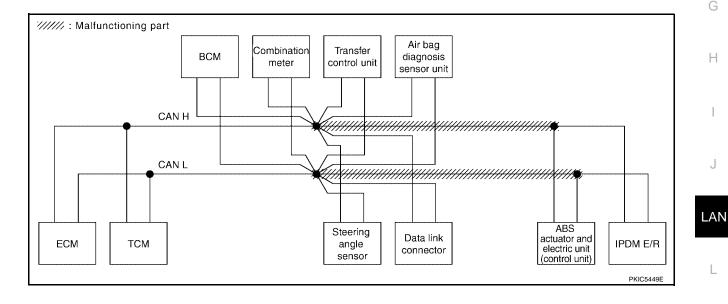
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#### Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-196, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit" .

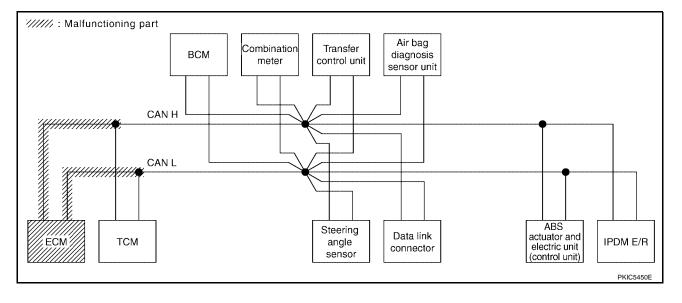
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	Rereen		_				Receive	diagnosis					RESULTS
SELECT STOLEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	/IVI&A	AWD/4WD	/ABS	E/R		
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMIN CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	-			UNKWN			CAN COMM CIRCUIT (U 200)	
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN		CAN COMM CIRCUIT (U 1000)	<u></u>
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNI	-	CAN COMM CIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	+		-	-	CAN COMIC CIRCUIT (U 000)	
IPDM E/R	No increation	-	UNKWN	UNKWN		-	UNKWN	-			-	CAN COMICIRCUIT (U 100)	



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Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	Initial	<b>T</b>				Receive	diagnosis				SELE-DIAC	RESULTS
022201 010121		diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	1	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 1000)	CAN COMM CIRCU (UN01)
A/T		NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN		-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	—	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNKWN	—	CAN COMM CIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	-	-	CAN COMIC CIRCUIT (U 000)	
IPDM E/R	No indication	—	UNKWN	UNKWN	-	—	UNKWN	-	—	1	-	CAN COMM CIRCUIT (U 100)	



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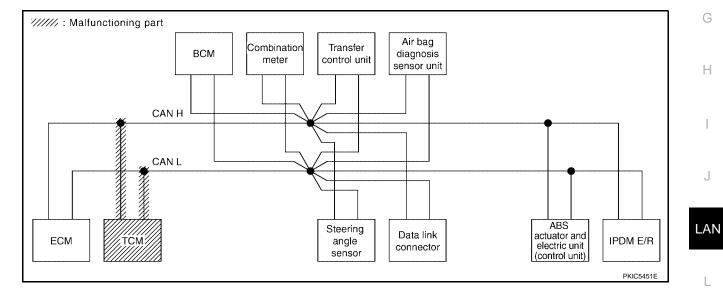
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## Case 4

Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

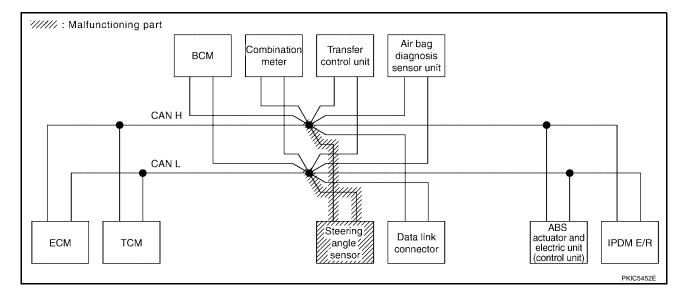
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	lecreen		-				Receive	diagnosis				SELF-DIAG	RESULTS
SELECT STOLEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE			UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-			UNKWN	UNKWN	UNKWN	-	CAN COMIL CIRCUIT (U 100)	
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	<u> </u>
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	—		UNKWN	-	CAN COMM CIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMIC CIRCUIT (U 1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN		-		-	CAN COMM CIRCUIT (U1000)	



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Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen						Receive	diagnosis				SELE-DIAG	RESULTS
SELECTOTOTEN	1 Scieen	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
INGINE			UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
VT	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
3CM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNIWN	-	-		UNKWN	+	CAN COMM CIRCUIT (U1000)	_
ABS		NG	UNKWN	UNKWN	UNKWN	UNIOWN			UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
PDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN			—	-	CAN COMM CIRCUIT (U1000)	_

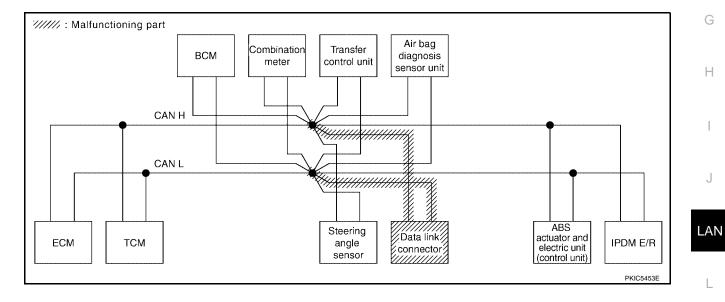


### Case 6

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Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAL	I LEODEIG
ENGINE	-		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	-			UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	No individualion	-	UNKWN	UNKWN	UNKWN	UNKWN				UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN		-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No inditiation	-	UNKWN	UNKWN	-	-	UNKWN		_		-	CAN COMM CIRCUIT (U1000)	



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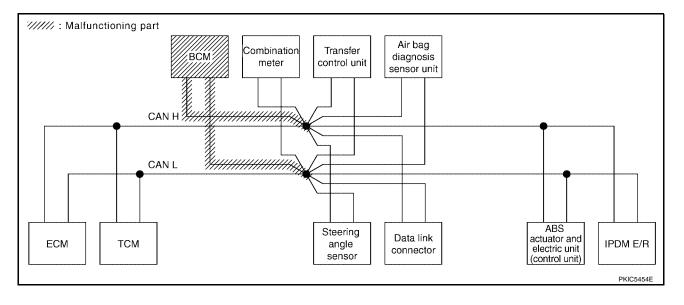
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Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1-11-1					Receive	diagnosis				SELE-DIAG	RESULTS
	orcon	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN				UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	—	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	_
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 COMIN CIRCUIT (UN00)	_

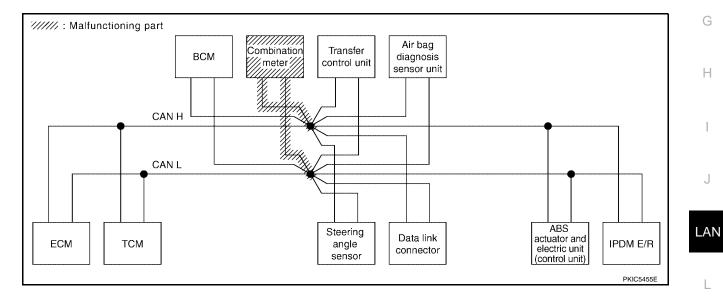


#### Case 8

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Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
SELECT CICIEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-			UNKWN	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	-
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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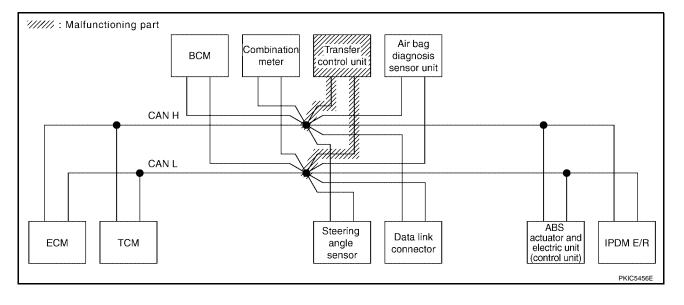
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Check transfer control unit circuit. Refer to LAN-201, "Transfer Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1	·····				Receive	diagnosis				SELE-DIAG	RESULTS
	Server	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UM01)
A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 000)	
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	No indvation		UNKWN	UNKWN	UNKWN	UNKWN	-			UNKWN	-	CAN COMM CIRCUIT (U 000)	-
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN		-	CAN COMM CIRCUIT (U 000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	—	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	-



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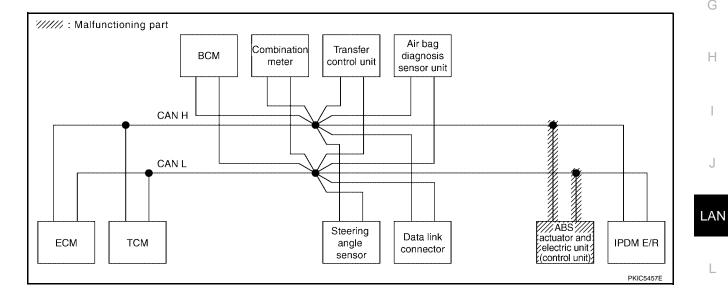
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## Case 10

А Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-202, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

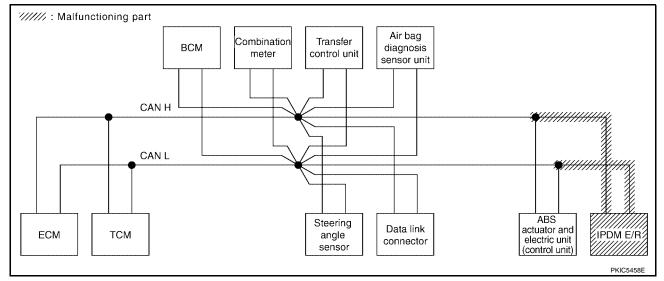
SELECT SYSTEM screen			_				Receive	SELF-DIAG RESULTS					
SELECT STOLEN		Initial diagnosis	Transmit diagnosis		тсм	S⊺RG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	- SELF-DIAG RESULTS	
ENGINE	-		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	_		UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	_	_		UNKWN	_		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	—	UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		-	CAN COMM CIRCUIT (U 200)	-
ABS		×	UNKWN	UNKWN	UNKWN	UNKWN	+	-		-	ł	CAN COMY CIRCUIT (U 000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN	-			-	CAN COMM CIRCUIT (U1000)	-



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#### Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen							Receive	SELF-DIAG RESULTS					
	Soreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE			UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UM01)
A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN		-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
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	Ne increation		UNKWN	UNKWN	-	-	UNKWN	-			-	CAN COMM CIRCUIT (U 100)	



## Case 12

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					CAN									
SELECT SYSTEM screen		1					Receive	SELF-DIAG RESULTS						
	boroom	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	/IVI&A		VDC/TCS /ABS	E/H			
ENGINE			UNKWN	-	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMIN CIRCUIT (UN00)	CAN COMM CIRCUIT (UN01)	
A/T	-	NG	UNKWN	UNKWN	-	-	-		UNKWN	UNKWN	-	CAN COMIN CIRCUIT (U 1000)	-	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMICIRCUIT (U 100)		
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U 000)		
ABS		V	UNKIN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMIN CIRCUIT (U 1000)		
IPDM E/R	No inclusion	-	UNKWN	UNKWN	-	-	UNKWN	+	-	-	-	CAN COMIL CIRCUIT (U 1000)	-	
													PKIC5700E	

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroop						Receive	diagnosis				SELE DIAG	RESULTS
SELECT STSTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	S⊺RG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODERS
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	_	—	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	—	UNKWN	-	-		UNKWN	CAN COMM CIRCUIT (U 1000)	-
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-		-	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN			CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	+	-	-	-	CAN COMM CIRCUIT (U1000)	

#### Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

SELECT SYSTEM son		Initial diagnosis — NG	Transmit diagnosis UNKWN UNKWN	ECM	TCM UNKWN	STRG	BCM /SEC	/M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE A/T		diagnosis —	diagnosis UNKWN	ECM	_		/SEC	/M&A	AWD/4WD	VDC/TCS /ABS	E/R		
A/T BCM					UNKWN								
BCM		NG	UNKWN				UNKWIN	UNKWN	UNKWN	UNKWN	UNKWN		
BCM	No		L	-	1	—	-	-	1	UNKWN	1	CAN COMM CIRCUIT (U 100)	-
Inc	ndication	NG	UNKWN	UNKWN	-	-	-	UNKWN	1	—	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No ndication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD inc	No ndication	-	UNKWN	UNKWN	UNKWN	UNKWN	-		-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS		NG	UNKWN	-	UNKWN	-	-			—	-	CAN COMICIRCUIT (U 100)	
IPDM E/R inc	No ndication	-	UNKWN	UNKWN	-	—	UNKWN	-	-	-	ł	CAN COMM CIRCUIT (U1000)	-
													PKIC5702E

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## Check Sheet

## NOTE:

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

SELECT SYSTEM	I				CAN	DIAG SU	PPORT N							
	screen	Initial	Transmit				r	diagnosis I				SE	LF-DIAG	G RESULTS
		diagnosis	diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	E/R			
NGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNIXWIN	(U100	00)	CAN COMM CIRCUIT (U1001)
Т	-	NG	UNKWN	UNKWN	-		-	UNKWN	UNKWN	UNKWN	—	CAN COMM (U100	00)	—
СМ	No indication	NG	UNKWN	UNKWN	-			UNKWN	-		UNKWIN	CAN COMM (U100	00)	
ETER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM (U100	00)	—
ll mode awd/4wd	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-		-	UNKWN	-	CAN COMM (U100	00)	
BS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN	-	-	CAN COMM (U100	00)	
PDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	_	-		-	CAN COMM (U100		—
				tach ac	ou of				<b>A</b> #+o	ob oopu	of			
			SEL	tach cor ECT SY	STEM				SELE	ch copy CT SYS	TEM			
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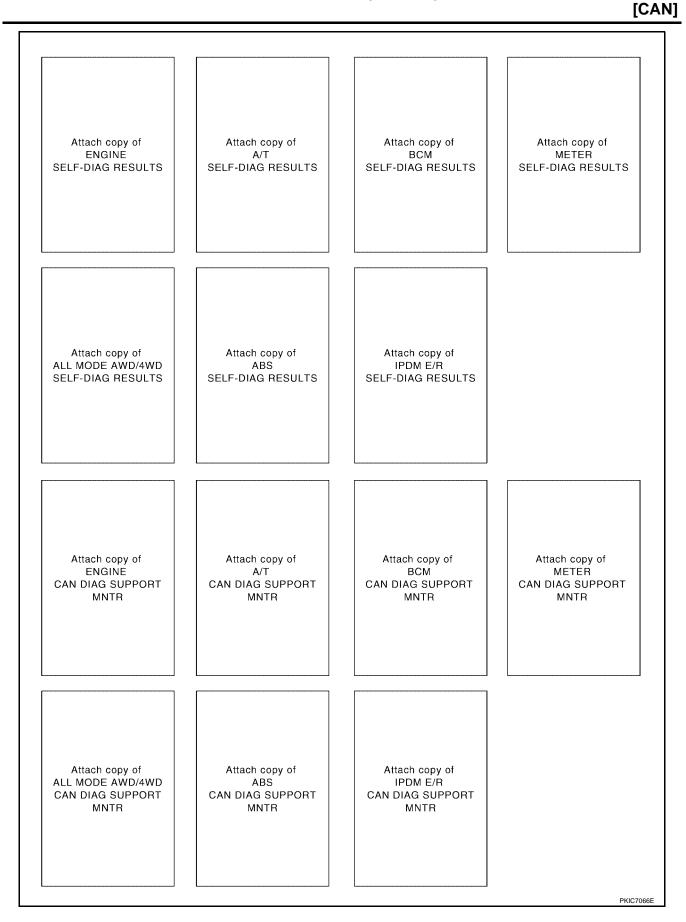
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## **CHECK SHEET RESULTS (EXAMPLE)**

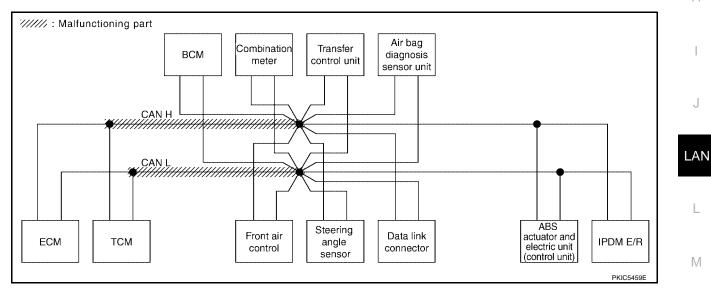
#### NOTE:

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

#### Case 1

Check harness between TCM and data link connector. Refer to LAN-195, "Inspection Between TCM and Data Link Connector Circuit" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	lecreen						Receive	diagnosis				SELF-DIAG	RESULTS
SELECTOTOTEN		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMICIRCUIT (U 000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	_	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	UNKWN			-	UNKWN	-	CAN COMM CIRCUIT (U 000)	
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN		-	CAN COMIL CIRCUIT (U 100)	
IPDM E/R	No indication		UNKWN	UNKWN	-		UNKWN		-		-	CAN COMM CIRCUIT (U 100)	-



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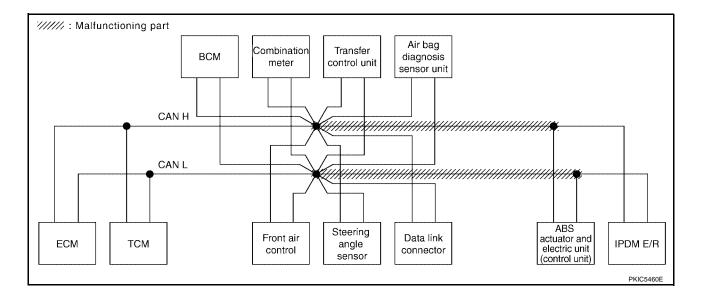
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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1	<b>T</b>				Receive	diagnosis				SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 101)
A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN			CAN COMM CIRCUIT (U 1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-		UNKWN		CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	-	-		UNIWN	-	CAN COMM CIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	1	-	UNKWN		-	CAN COMIC CIRCUIT (U 000)	_
IPDM E/R	No inclusion		UNKWN	UNKWN	-	-	UNKWN				-	CAN COMM CIRCUIT (U 100)	-



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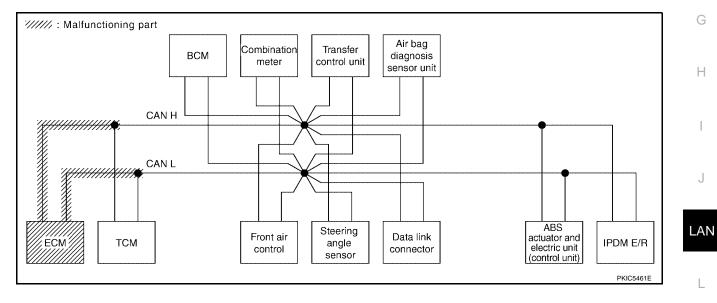
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#### Case 3

Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

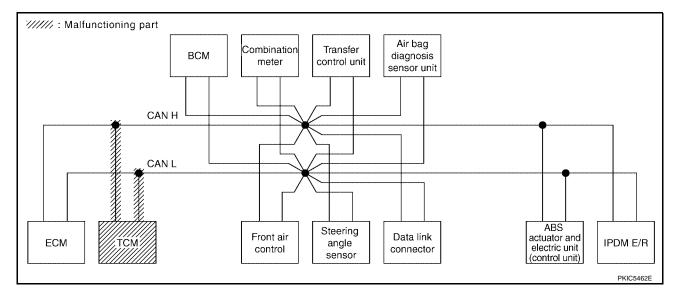
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen	Initial	Tanania				Receive	diagnosis	-			SELE-DIAG	RESULTS
			Transmit diagnosis		тсм	STRG	BCM /SEC		AVVD/4VVD				
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMY CIRCUIT	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	UNKWN	-	CAN COMY CIRCUIT	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	-		UNKWN		CAN COMM CIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN		-	CAN COMIN CIRCUIT (U 1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN					CAN COMM CIRCUIT (U 100)	



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Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

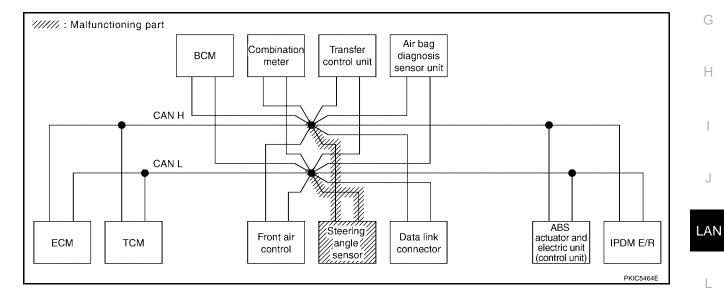
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAL	I LEODEIG
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 1000)	CAN COMM CIRCL (UN01)
A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u> </u>
METER	No indication	_	UNKWN	UNKWN	UNKWN	_	UNKWN			UNKWN	UNKWN	CAN COMICIRCUIT (U 100)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U 000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMIC CIRCUIT (U 000)	
IPDM E/R	No indication	—	UNKWN	UNKWN	-	—	UNKWN		—	-	-	CAN COMM CIRCUIT (U1000)	



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Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
SELECT STOLEN		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	TEODEIG
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)	<u> </u>
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	UNIWN	-			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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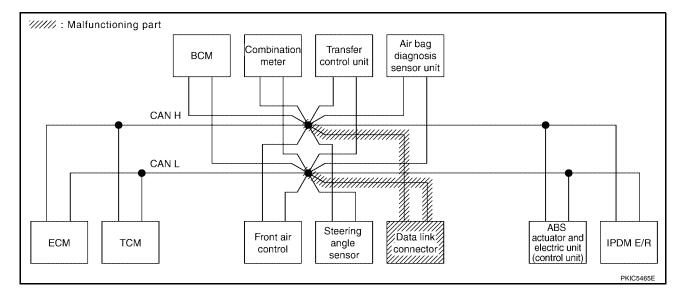
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Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1	T				Receive	diagnosis				SELE-DIAG	RESULTS
	orean	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE		-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (U1001)
A/T		NG	UNKWN	UNKWN	-			UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indivation	-	UNKWN	UNKWN	UNKWN		UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No indination	-	UNKWN	UNKWN	UNKWN	UNKWN	—		-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indiviation	—	UNKWN	UNKWN	—	-	UNKWN			-	-	CAN COMM CIRCUIT (U1000)	



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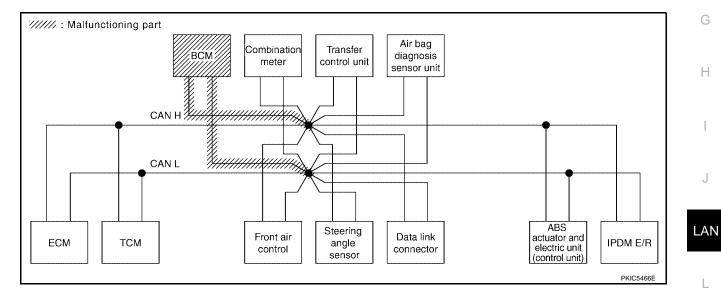
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## Case 7

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Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

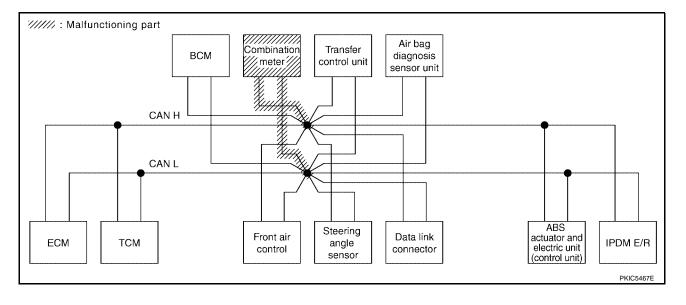
SELECT SYSTEM s					CAN	DIAG SU	PPORT N	INTR					
	creen	1-11-1					Receive	diagnosis				SELF-DIAG	BESUITS
01110101011110		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	—	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UV01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
всм	Ng indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	_	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	UNKWN	-	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 (U 1000)	



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Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1	- <b>-</b>				Receive	diagnosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (UM01)
A/T	-	NG	UNKWN	UNKWN	1	_	-	UNKWN	UNKWN	UNKWN	-	CAN COMIL CIRCUIT (U 100)	
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
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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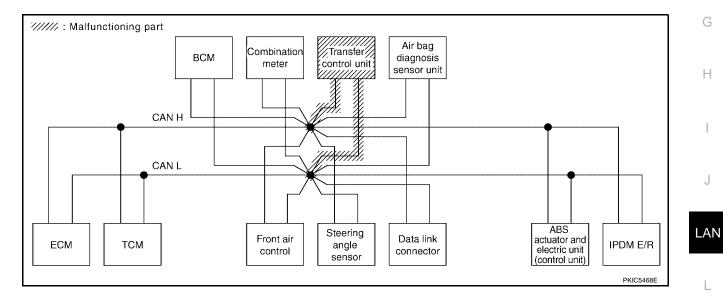
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### Case 9

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Check transfer control unit circuit. Refer to LAN-201, "Transfer Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
OLLEON ON OTHER		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	—	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No inclustion		UNKWN	UNKWN	UNKWN	UNKWN				UNKWN	-	CAN COMM CIRCUIT (U 000)	_
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN		-	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-			-	CAN COMM CIRCUIT (U1000)	-

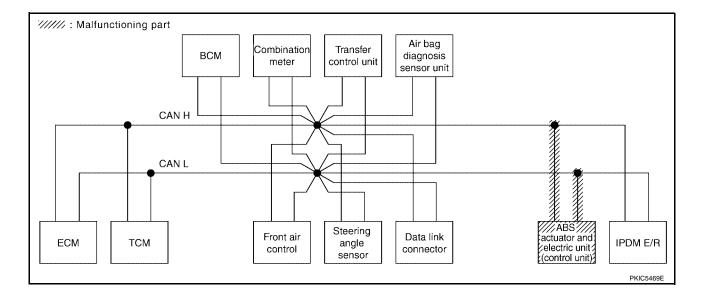


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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "<u>ABS Actuator and Electric Unit</u> (<u>Control Unit</u>) <u>Circuit Inspection</u>".

SELECT SYSTEM         Initial Initial diagnosis         Transmit diagnosis         Transmit diagnosis         Imitial diagnosis         Transmit diagnosis         Imitial ECM         TCM         STRG         BCM /SEC         METER /M&A         AWD/4WD         VOC/TCS         IPDM (ABS         SELF-DIAG         RESULT           ENGINE           UNKWN          UNKWN	_
Initial diagnosis       In	_
ENGINE         —         —         UNKWN         —         UNKWN	P.OID OIL
AT         D         NG         DNKWN         DNKWN         D         D         DNKWN	
BCM     Indication     NG     UNKWN     UNKWN     —     —     UNKWN     —     —     UNKWN     (U1000)       METER     No      UNKWN     UNKWN     UNKWN      UNKWN      UNKWN      UNKWN      UNKWN       UNKWN       UNKWN       UNKWN       UNKWN      UNKWN       UNKWN       UNKWN       UNKWN       UNKWN      UNKWN      UNKWN      UNKWN	
METER	•
ALL MODE AWD/4WD No - UNKWN UNKWN UNKWN UNKWN UNKWN - CAN COMM CIRCUIT (U 100)	
ABS - NA UNKWN UNKWN UNKWN UNKWN CAN COMY CIRCUIT (U 100)	
IPDM E/R         No         UNKWN         UNKWN <th< td=""><td></td></th<>	



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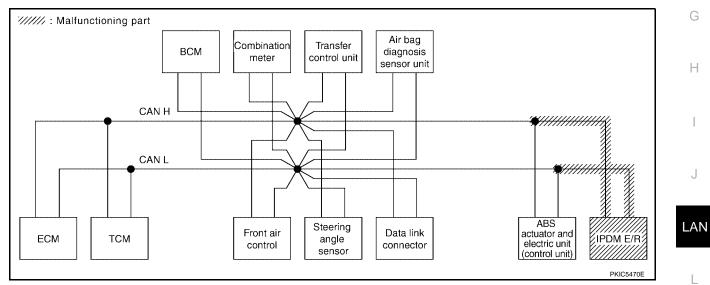
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## Case 11

Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon						Receive	diagnosis				SELE DIAG	RESULTS
SELECT STSTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC			VDC/TCS /ABS			
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	-	-		UNKWN	UNKWN		CAN COMM CIRCUIT	-
BCM	No indication	NG	UNKWN	UNKWN	-	_	—	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	_	UNKWN	_		UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	-
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 inclusion	-	UNKWN	UNKWN	-	1	UNKWN	-	-	-	-	CAN COMIC CIRCUIT (U 1000)	—



### Case 12



					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	luciti e l	Transit				Receive	diagnosis				SELF-DIAG	BESUITS
011201 010121		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC			VDC/TCS /ABS	E/H I		
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-				UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	1	-	-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	-
ALL MODE AWD/4WD	No indivation		UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNKWN	-	CAN COMM CIRCUIT (U 000)	-
ABS		V	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 100)	-
IPDM E/R	No inclusion	-	UNKWN	UNKWN	-	-	UNKWN	-	1	-	1	CAN COMIN CIRCUIT (U 1000)	—
													PKIC5700E

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#### Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon		i.				Receive	diagnosis				SELE-DIAG	RESULTS
SELECT STOLEN	Screen	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	TILOULIO
ENGINE	-		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMIN CIRCUIT (U 1000)	CAN COMM CIRCU (UN01)
A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	_	UNKWN	-	-	UNKWN	UNKWN	CAN COMIN CIRCUIT (UN00)	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNION	-	CAN COMM CIRCUIT (U 1000)	-
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN		-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN	_			-	CAN COMM CIRCUIT (U1000)	_

### Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection"

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1	T				Receive	diagnosis				SELE-DIAG	RESULTS
011101 010111	orean	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	-	-					UNKWN	-	CAN COMM CIRCUIT (U 1000)	—
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	UNKWN				UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS		NG	UNKWN	-	UNKWN						-	CAN COMM CIRCUIT (U 000)	
IPDM E/R	No indication		UNKWN	UNKWN	—	—	UNKWN	—			-	CAN COMM CIRCUIT (U1000)	-

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CAN SYSTEM (TYPE 9)	PFP:23710	
Component Parts and Harness Connector Location	UKS0051W	А
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	UK\$0051X	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	UKS0051Y	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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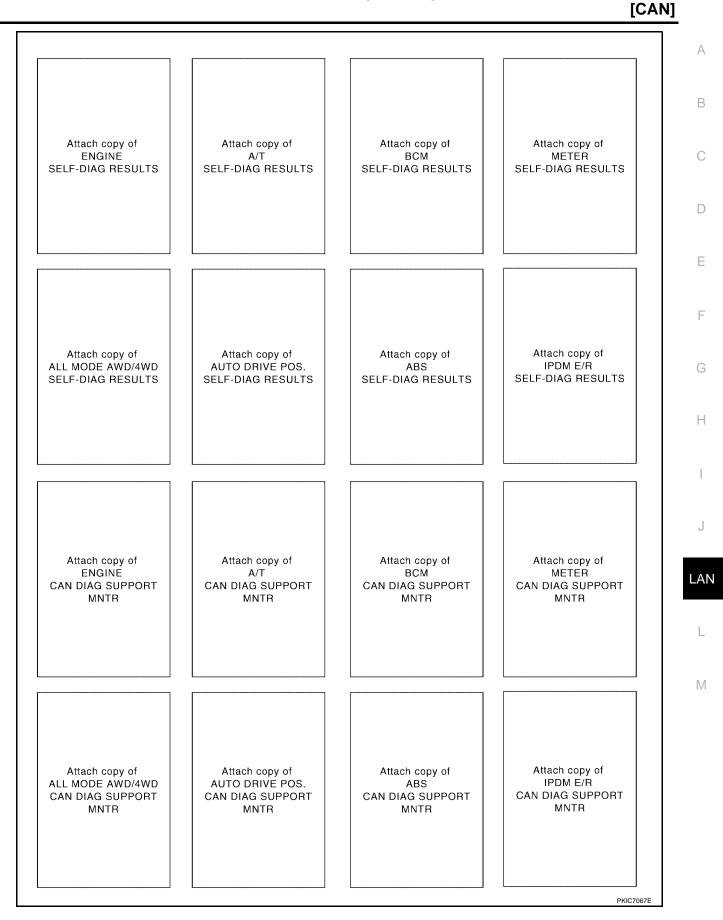
## **Check Sheet**

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

SELECT SYSTEM screen  ENGINE A/T BCM N0 indication METER N0 indication ALL MODE AWD/4WD N0 indication ABS IPDM E/R N0 indication Symptoms :		Transmit iss diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	TCM UNKWN —	STRG	BCM /SEC UNKWN	/IVI&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	diagnosi diagnosi n NG on n  on NG NG	UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN		/SEC	/IVI&A	AWD/4WD	VDC/TCS /ABS	IPDM E/B	OLLI DIK	
A/T BCM No indication WETER No indication ALL MODE AWD/4WD No indication AUTO DRIVE POS. No indication ABS PDM E/R No indication	NG on NG on — on — on — NG	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	_		UNKWN				0.11		-
BCM No indication METER No ALL MODE AWD/4WD No indication AUTO DRIVE POS. No indication ABS IPDM E/R No	on NG on — on — on — NG	UNKWN UNKWN UNKWN	UNKWN UNKWN		-			UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
ALL MODE AWD/4WD No indication ALL MODE AWD/4WD No indication AUTO DRIVE POS. No indication ABS PDM E/R No	on on on NG	UNKWN	UNKWN	_			UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD No indication AUTO DRIVE POS. No indication ABS PDM E/R No indication	on	UNKWN			1	-	UNKWN		1	UNKWIN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD indication NUTO DRIVE POS. No indication NBS PDM E/R No indication	on			UNKWN	1	UNKWN	—	—	UNKWN	UNKWIN	CAN COMM CIRCUIT (U1000)	-
ABS	on NG	-	UNKWN	UNKWN	UNKWN	-	-	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
PDM E/R No indication			-	UNKWN	—	UNKWN	UNKWN	-	—	-	CAN COMM CIRCUIT (U1000)	-
PDM E/R indication		UNKWN	UNKWN	UNKWN	UNKWN	-	1	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
Symptoms :	UN	UNKWN	UNKWN			UNKWN	—	—		-	CAN COMM CIRCUIT (U1000)	
			tach cor ECT SY						ch copy CT SYS			

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## **CHECK SHEET RESULTS (EXAMPLE)**

#### NOTE:

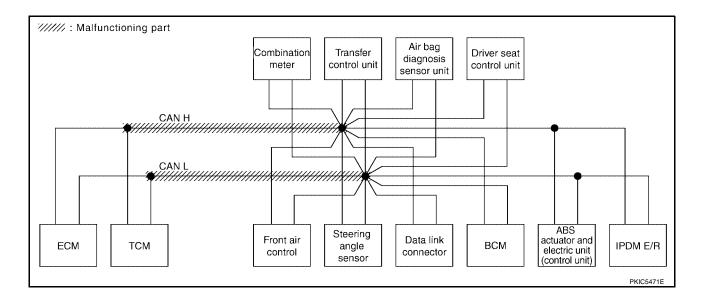
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

#### Case 1

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Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		<b>T</b>				Receive	diagnosis				SELE-DIAG	RESULTS
	Soroom	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE		-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN		-		UNKWN	UNKWN	UNKWN	+	CAN COMIC CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indication	1	UNKWN	UNKWN		-	UNKWN	-	I	UNKWN	UNKWN	CAN COMICIRCUIT (U 100)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	ł	UNKWN	ł	CAN COMM CIRCUIT (U 000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U 100)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	+	CAN COMIC CIRCUIT (U 000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN		-		-	CAN COMICIRCUIT (U 100)	-



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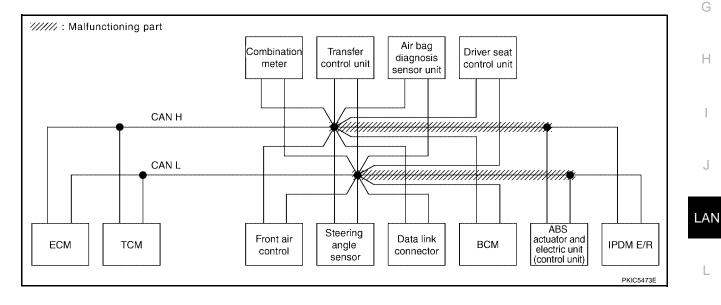
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#### Case 2

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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> <u>A 196, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit"</u>.

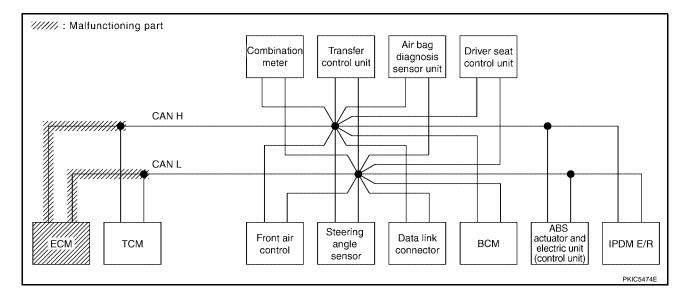
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
OLLEOT OTOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	/IVI&A	AWD/4WD	/ABS	IPDM E/R		
ENGINE	—		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	-	-			UNKWN	1	CAN COMM CIRCUIT	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNI	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNIOWN	-	CAN COMM CIRCUIT (U 000)	_
AUTO DRIVE POS.	No indication		-	-	UNKWN	-	UNKWN	UNKWN	-		-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN	-	-	CAN COMIN CIRCUIT (U 1000)	-
IPDM E/R	No increation	-	UNKWN	UNKWN	-	-	UNKWN		-		-	CAN COMM CIRCUIT (U 100)	



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Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen		4				Receive	diagnosis					RESULTS
OLLEOT OTOTEM	ooreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIA	
ENGINE			UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-	1	-	UNKWN	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	1	-		UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN			-	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	_	UNKWN	UNKWN	_		-	CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN		-	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-		-	CAN COMM CIRCUIT (U 100)	



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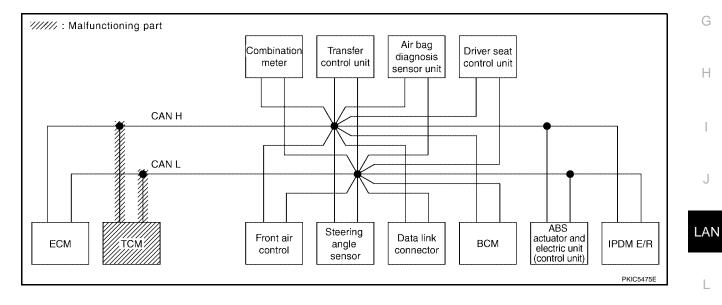
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#### Case 4

Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

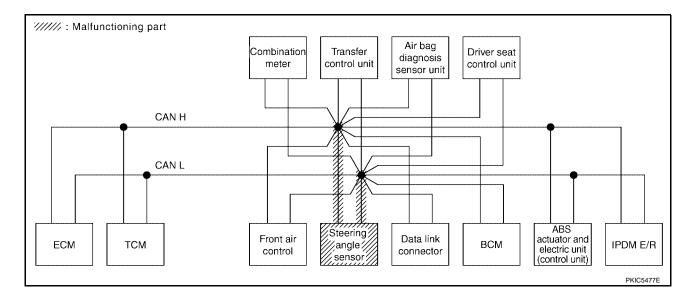
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon						Receive	diagnosis				SELF-DIAG	RESULTS
SELECT OTOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEL -DIAC	
ENGINE	-		UNKWN	-	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN		1	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN		—	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	—	UNKWN	-	CAN COMM CIRCUIT (U 200)	H
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	1	CAN COMM CIRCUIT (U 1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	1	UNKWN	-	ł	CAN COMY CIRCUIT (U 100)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN	-	-		-	CAN COMM CIRCUIT (U1000)	



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Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
OLLEOT OTOTEM	ooreen	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	UNKWN	—	—	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	1	-	-	UNKWN	1	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	—	I	UNKWN	UNKWN	(01000)	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNIWN	-	-	I	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	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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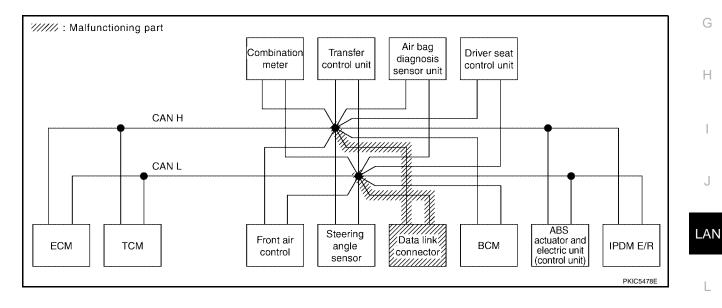
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#### Case 6

Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

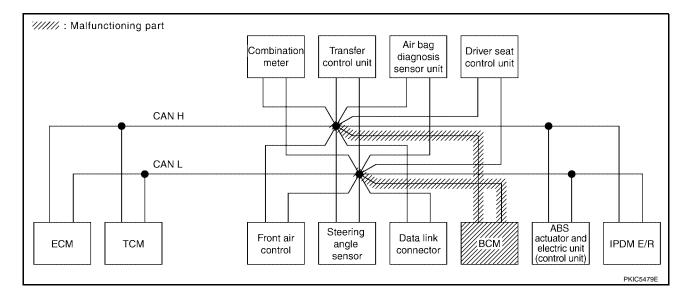
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
OLLEOT OTOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	THEODERO
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indination	NG	UNKWN	UNKWN	+	1	4	UNKWN	1	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	-	UNKWN	UNKWN	UNKWN	_	UNKWN	_		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No individualion	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	I	UNKWN	1	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	1	UNKWN	1	UNKWN	UNKWN	I	-	ł	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN		-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No individualion		UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_



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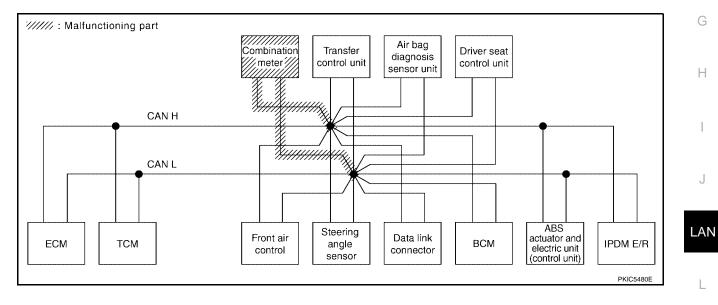
Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
OLLEOT OTOTEN	sorcen	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	_	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	1	-	-	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNION	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	UNKAN	UNKWN	-	-	-	CAN COMM CIRCUIT (U 100)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-		-	-	CAN COMM CIRCUIT (U 1000)	-



Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon						Receive	diagnosis					RESULTS
		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-		UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	Ι	-			—	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	+	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	—	-	-	UNKWN	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U 100)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	+	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-		-	CAN COMM CIRCUIT (U1000)	



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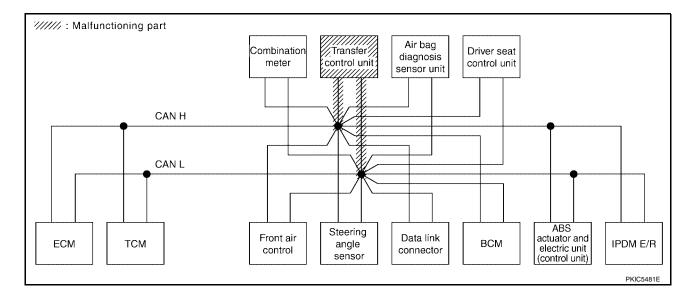
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Check transfer control unit circuit. Refer to LAN-201, "Transfer Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
OLLEOT OTOTEN	ooreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMIN CIRCUI (UV01)
A/T		NG	UNKWN	UNKWN	-			UNKWN	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	1			UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No incluation	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U 000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	1	CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN		-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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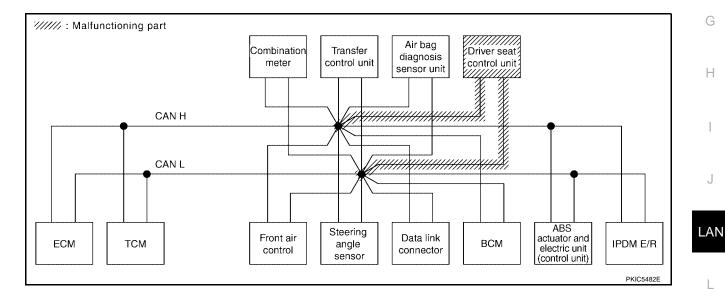
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Check driver seat control unit circuit. Refer to LAN-202, "Driver Seat Control Unit Circuit Inspection" .

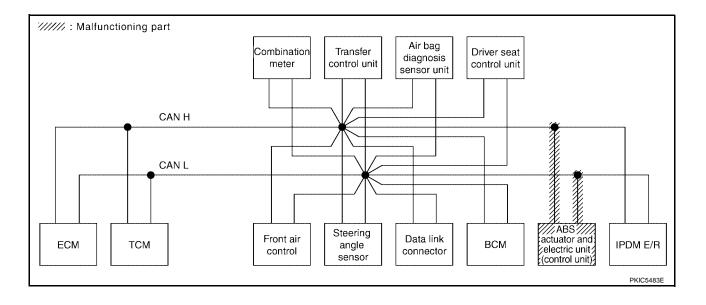
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
SEELOT OTOTEM		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	32EI -DIAC	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	-	_		UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	_	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	UNKWN		+		UNKWN	ł	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	UNKWN	UNKWN	-	-	-	CAN COMINCIRCUIT (U 1000)	
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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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "<u>ABS Actuator and Electric Unit</u> (<u>Control Unit</u>) <u>Circuit Inspection</u>".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
OLLEOT OT OTTEM		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	—	NG	UNKWN	UNKWN	—	—	-	UNKWN	UNKWN	UNKWN	-	CAN COMIC CIRCUIT (U 2000)	—
ВСМ	No indication	NG	UNKWN	UNKWN	1	-	-	UNKWN	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-		UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		-	CAN COMM CIRCUIT (U 000)	-
AUTO DRIVE POS.	No indication	-	1	-	UNKWN	-	UNKWN	UNKWN	-	-	1	CAN COMM CIRCUIT (U1000)	
ABS	-	V	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNIWN	-	-	CAN COMIC CIRCUIT (U 1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN	-	—	-	-	CAN COMM CIRCUIT (U1000)	



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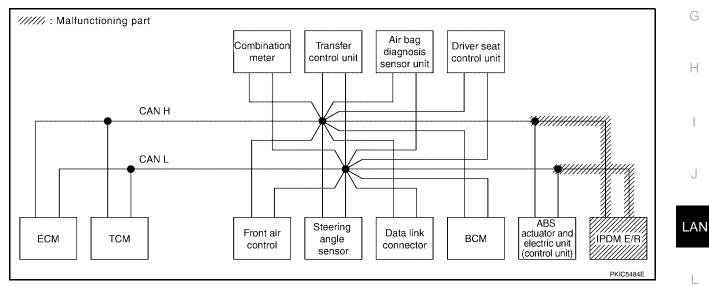
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### Case 12

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Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
offer of other	0010011	Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIA	
ENGINE			UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMICIRCUIT (UV01)
A/T	-	NG	UNKWN	UNKWN	—	-	-	UNKWN	UNKWN		—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	1	1	1	UNKWN	1	ł	•	CAN COMM CIRCUIT (U1000)	—
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	UNIWN	CAN COMM CIRCUIT (U 100)	—
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	1	1	I	UNKWN		CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	UNKWN	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	Ne induation		UNKWN	UNKWN	-		UNKWN	1	-	-		CAN COMM CIRCUIT	



#### Case 13



SELECT SYSTEM scree		Initial iagnosis	Transmit diagnosis				Receive	diagnosis								
ENGINE												SELF-DIAG RESULTS				
				ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		HEODERO			
٨/٣		-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	CAN COMM CIRCUI (UM01)			
~	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-			
BCM ind	Nation	NG	UNKWN	UNKWN	-	-	1	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)				
METER ind	No Mation	-	UNKWN	UNKWN	UNKWN	I	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)				
	Ng Mation	-	UNKWN	UNKWN	UNKWN	UNKWN	-	1	-	UNKWN	-	CAN COMM CIRCUIT (UN00)	_			
	No Mation	-	1	1	UNKWN	1	UNKWN	UNKWN	١	-	-	CAN COMN CIRCUIT (U 000)				
ABS ·	—	V	UNKIN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	—	-	CAN COMM CIRCUIT (UN00)				
	Ne Mation	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 1000)				

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#### Case 14

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen ENGINE A/T BCM No indicat	Initial diagnosis  NG	Transmit sdiagnosis UNKWN	ECM		STRG	BCM /SEC	diagnosis METER /M&A	AWD/4WD	VDC/TCS	IPDM	SELF-DIAG	RESULTS
ENGINE A/T BCM No	diagnosi:	s diagnosis UNKWN	ECM				METER /M&A	AWD/4WD	VDC/TCS	IPDM		TIEOOEIO
A/T	 NG		-	UNKIN					/ABS	E/R		
BCM No	NG			V	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUI (UN01)
BCM		UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
inaloat	on NG	UNKWN	UNKWN	-	-	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER No indicat	on –	UNKWN	UNKWN	UNKWN	-	UNKWN	-	I	UNWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD No indicat	on —	UNKWN	UNKWN	UNKWN	UNKWN	-		-	UNION	-	CAN COMM CIRCUIT (U 100)	—
AUTO DRIVE POS. No indicat	on —	-	-	UNKWN	-	UNKWN	UNKWN	-	—	-	CAN COMM CIRCUIT (U 100)	
ABS -	NG	UNKWN	UNKWN	UNKWN	UNKWN	ł	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R No indicat	on —	UNKWN	UNKWN	-	-	UNKWN			-	-	CAN COMM CIRCUIT (U1000)	—

### Case 15

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection"

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	scroon						Receive	diagnosis					RESULTS
		Initial diagnosis	Transmit diagnosis		тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE		—	UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	-	NG	UNKWN		1	-	1	-	-	UNKWN	+	CAN COMY CIRCUIT (U 100)	
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN		-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication		-	-	UNKWN	-	UNKWN	UNKWN	-		-	CAN COMM CIRCUIT (U1000)	-
ABS		NG	UNKWN	-	UNKWN	-	-	-	-		1	CAN COMM CIRCUIT (U 1000)	1
IPDM E/R	No indication	-	UNKWN	UNKWN	-	—	UNKWN	-	—		-	CAN COMM CIRCUIT (U1000)	-

	[CAN]	
CAN SYSTEM (TYPE 10)	PFP:23710	
Component Parts and Harness Connector Location	UK\$00520	А
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	UKS00521	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	UK\$00522	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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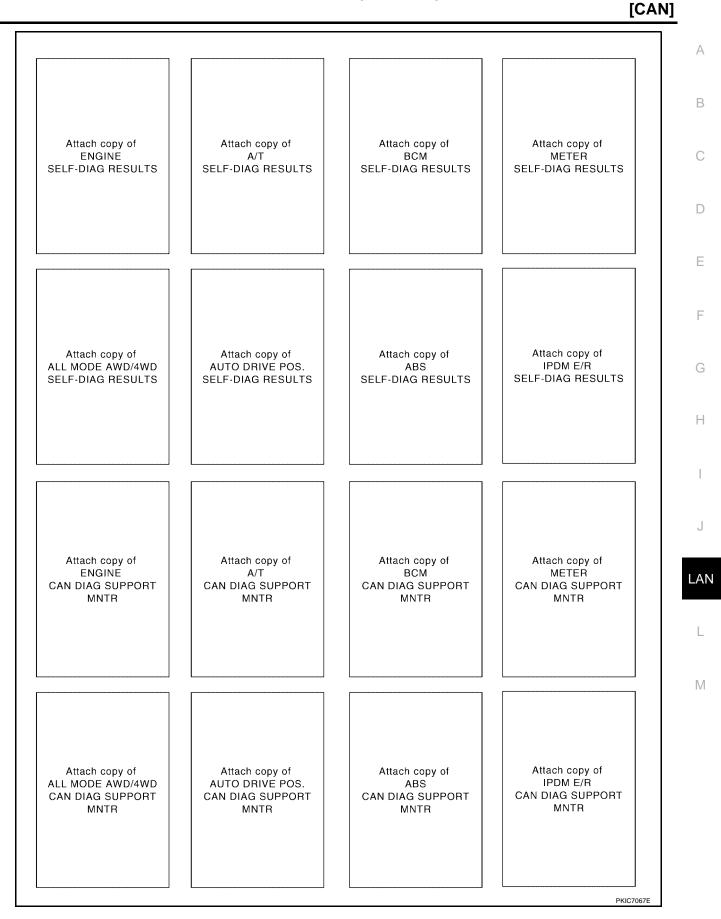
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## **Check Sheet**

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

Check sheet table														
					С	AN DIAC	SUPPO	RT MNT	R					
SELECT SYSTEM screen		n Initial	Transmit		· · · · · · · · · · · · · · · · · · ·				ve diagnosis				SELF-DIAG RESULTS	
		diagnosis	diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	awd/4wd	VDC/TCS /ABS	IPDM E/R		
ENGINE	—		UNKWN	-	UNKWN	_		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	1		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)	—
METER	No indication		UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	1	UNKWN	1	-	-	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	—	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	1	NG	UNKWN	UNKWN	UNKWN	I	UNKWN	I	-	UNKWN	-	1	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	—	_	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Symptoms :														
Symptoms .														
	Attach copy of SELECT SYSTEM							Attac SELEC	h copy					
								SELEU	1 3 1 3					
			L						L					
			····				Ŭ	- <b>T</b>	· · ·				above check shee	
Confirmation/Adjustment Display				Check sheet table Display Initial diagnosis					firmatio		stment I	Jisplay	Check sheet table Display METER/M&A	
CAN COMM CAN CIRC 1				Transmit diagnosis					I CIRC					
CAN CIRC 1	BCM										IPDM E/R			
CAN CIRC 3	ECM						I CIRC							
CAN CIRC 4	CAN CIRC 4				Front air control					9				
[														]
Attach copy of display control unit														
CAN DIAG SUPPORT MONITOR Check Sheet														
L														PKIC5720E

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## **CHECK SHEET RESULTS (EXAMPLE)**

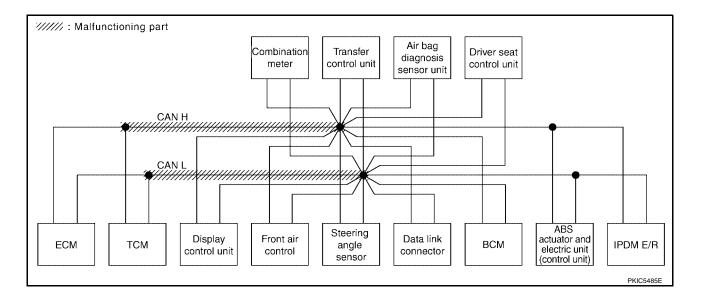
#### NOTE:

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

#### Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

				C										
SELECT SYSTEM screen		Initial Trar diagnosis diag		Receive diagnosis									SELF-DIAG RESULTS	
			Transmit sdiagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	/IVI&A	AWU/4WU	/ABS	IPDM E/R		
ENGINE	-		UNKWN		UNKWN	-	-	UNKWN		UNKWN	UNKAN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-			-				-	CAN COMM CIRCUIT (U 100)	-
Display control unit		NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	1	1	UNKWN	-	_
BCM	No indication	NG	UNKWN	UNKWN		-			UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN			UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U 000)	
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	UNKWN	-	1	1	CAN COMICIRCUIT (U 000)	-
ABS	-	NG	UNKWN	UNKWN	UNKINN		UNKWN	—	-	UNKWN	-	-	CAN COMM CIRCUIT (U 100)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-		UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 1000)	



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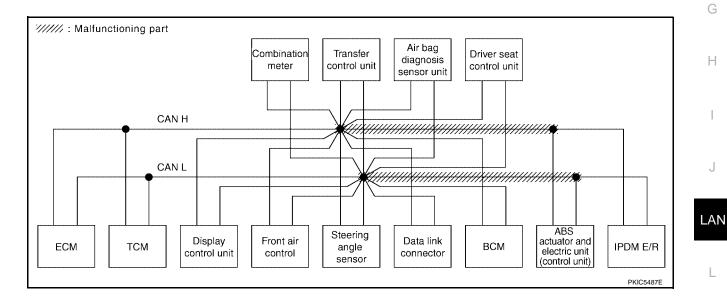
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#### Case 2

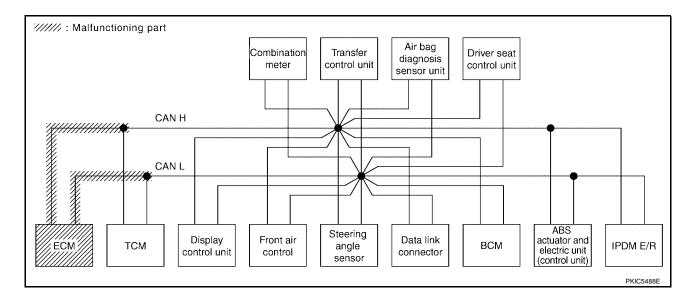
Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> <u>A 196, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit"</u>.

					C	CAN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	screen		÷				Rec	eive diagr	nosis				SELF-DIAG	RESULTS
OLLEOT OT OT OT		Initial diagnosis	Transmit diagnosis		тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKIVN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-		-	-	UNKWN	UNKWN	UNKIN	-	CAN COMM CIRCUIT (U 100)	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-	UNKWN	-	_
BCM	No indication	NG	UNKWN	UNKWN	-	—		-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	—	CAN COMM CIRCUIT (U 1000)	<u> </u>
AUTO DRIVE POS.	No indication	—	-	-	UNKWN	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN		-	UNKVN	-	1	UNKWN	-	-	CAN COMIC CIRCUIT (U 100)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	_	UNKWN	-	-	-	-	CAN COMIC CIRCUIT (U 1000)	



Check ECM circuit. Refer to LAN-197, "ECM Circuit Inspection" .

					C	CAN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	scroon		L				Rece	eive diag	nosis				SELE-DIAG	RESULTS
SELECTOTOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	,020	71410471	AWU/4WU	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IPDM E/R		
ENGINE	-	—	UNKWN	-	UNKVN			UNKWN		UNKAVN	UNKOVN		CAN COMM CIRCUIT (U 100)	CAN COMIN CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN		-		-	UNKWN	UNKWN	UNKWN	-	CAN COMIN CIRCUIT (UN00)	
Display control unit		NG	UNKWN	UNKWN	-	UNKWN		UNKWN	UNKWN	-	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKAVN		-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	1	UNKWN	1	CAN COMM CIRCUIT (U 1000)	H
AUTO DRIVE POS.	No indication	—	-		UNKWN		—	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	—	-	UNKWN	-	-	CAN COMICIRCUIT (U 100)	
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-		-	-	CAN COMM CIRCUIT (U 100)	<u> </u>



## CAN SYSTEM (TYPE 10)

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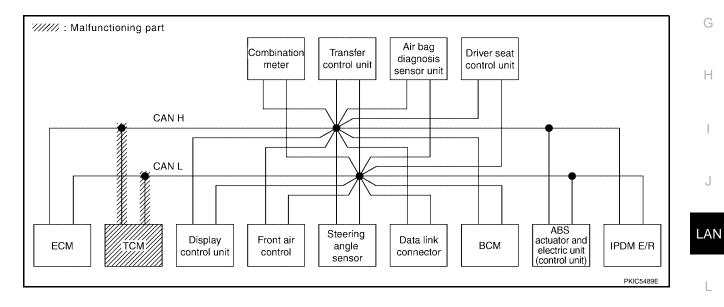
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#### Case 4

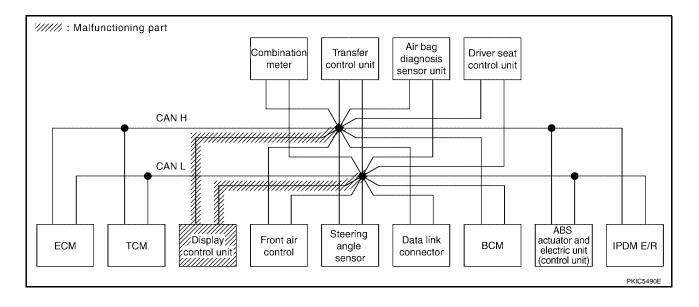
Check TCM circuit. Refer to LAN-197, "TCM Circuit Inspection" .

					C	CAN DIAG	SUPPO	RT MNT	7					
SELECT SYSTEM	scroon		+ .				Rece	eive diagr	nosis				SELE-DIAG	RESULTS
OLLEOT OT OT OT		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-		UNKWN	-	UNKVN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	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)	-
METER	No indication	—	UNKWN	UNKWN		-	-	UNKWN	1	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 200)	-
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN		UNKWN	1	1	1	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
AUTO DRIVE POS.	No indication			1	UNKWN		1	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKWN	UNKAVN	—	UNKWN	-	1	UNKWN	-	1	CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN		-	-	UNKWN	-		-	_	CAN COMM CIRCUIT (U1000)	



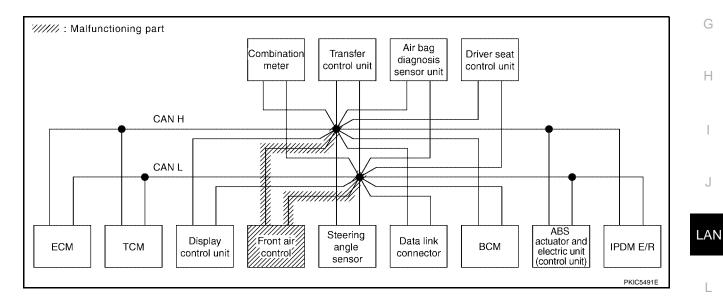
Check display control unit circuit. Refer to LAN-198, "Display Control Unit Circuit Inspection" .

					C	CAN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	scroon						Rece	eive diag	nosis				SELE-DIAG	RESULTS
SELECT STOTEM	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-		UNKWN	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	UNKWN	1	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)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN		UNKWN	-	-		UNKWN	-	CAN COMM CIRCUIT (U1000)	H
AUTO DRIVE POS.	No indication		-	1	UNKWN			UNKWN	UNKWN	—	-	1	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	-	-	UNKWN	-	1	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN			-	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	



Check front air control circuit. Refer to LAN-198, "Front Air Control Circuit Inspection" .

					C	CAN DIAG	SUPPC	RT MNT	7					
SELECT SYSTEM	ecroon		<b>+</b>				Rece	eive diagr	nosis				SELE-DIAG	RESULTS
SELECT STOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
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)	-
Display control unit	-	NG	UNKWN	UNKWN	1	UNKWN		UNKWN	UNKWN	-	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	—	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	1	1	1	UNKWN	I	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication		-	-	UNKWN			UNKWN	UNKWN	-	-	Ι	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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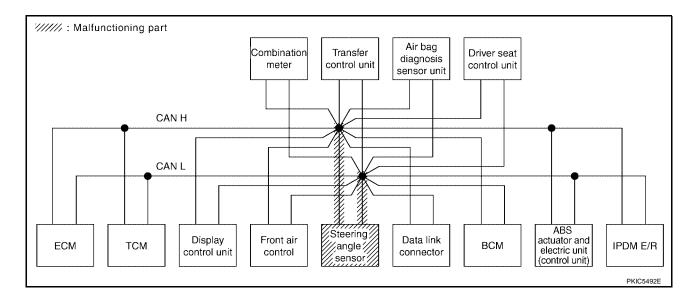
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Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

					C	CAN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	ecroon		L				Rece	eive diag	nosis					RESULTS
SELECTOTOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TILOULIS
ENGINE	-		UNKWN	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN		-	-	-	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
Display control unit		NG	UNKWN	UNKWN	-	UNKWN	1	UNKWN	UNKWN	-	1	UNKWN	-	
BCM	No indication	NG	UNKWN	UNKWN		-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	1	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	1	UNKWN	-	1	UNKWN	UNKWN	-	-	Ι	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKAN	—	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN		-		UNKWN	-	-	-	_	CAN COMM CIRCUIT (U1000)	



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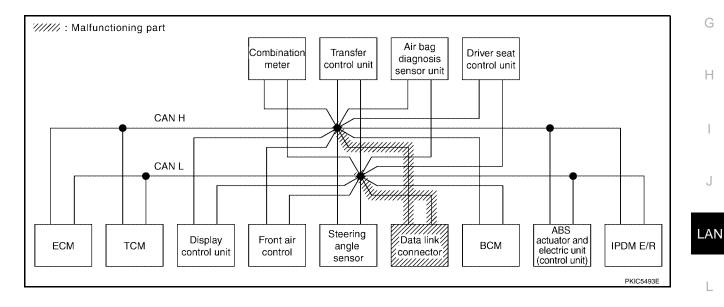
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#### Case 8

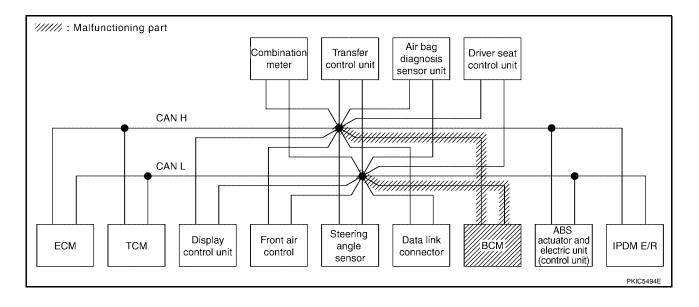
Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

					C	CAN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	screen	1	+				Rec	eive diagr	nosis				SELE-DIAG	RESULTS
SELECT STOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE			UNKWN	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN		-		—	UNKWN	UNKWN	UNKWN	1	CAN COMM CIRCUIT (U1000)	
Display control unit		NG	UNKWN	UNKWN	-	UNKWN		UNKWN	UNKWN	-	-	UNKWN	-	-
BCM	No inditation	NG	UNKWN	UNKWN		-	-	-	UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No inditation	—	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No inditation	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	1	1	UNKWN	I	CAN COMM CIRCUIT (U1000)	ł
AUTO DRIVE POS.	No inditation		-	—	UNKWN			UNKWN	UNKWN	-	—	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No ind ation	-	UNKWN	UNKWN		-	-	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	



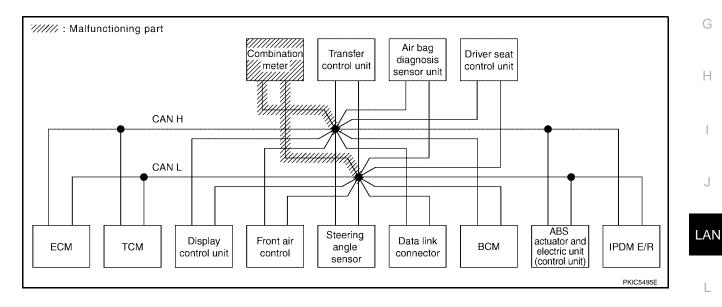
Check BCM circuit. Refer to LAN-200, "BCM Circuit Inspection" .

					C	CAN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	Peroon		_				Rece	eive diag	nosis				SELE-DIAG	RESULTS
SELECTOTOTOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	
ENGINE	—		UNKWN	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN		-		—	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN		UNKWN	UNKWN	-	-	UNKWN	-	-
BCM	No indition	NG	UNKWN	UNKWN		-	-	-	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 000)	-
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN		UNKWN	-	-	1	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication			-	UNKWN			UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U 100)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	_	-	UNKWN	-	1	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	-	UNKWN	UNKWN		-	-	UNKWN	-		-	-	CAN COMM CIRCUIT (U 100)	-



Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

					C	CAN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	scroon		+ .				Rec	eive diagr	nosis				SELE-DIAG	RESULTS
SELECT STOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-		UNKWN	—	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN		-		-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
Display control unit	-	NG	UNKWN	UNKWN		UNKWN		UNKWN	UNKWN		-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN		-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	indivation	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	-
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	1	UNKWN	I	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication		-	_	UNKWN	-		UNKWN	UNKIN	—	—	1	CAN COMM CIRCUIT (U 1000)	
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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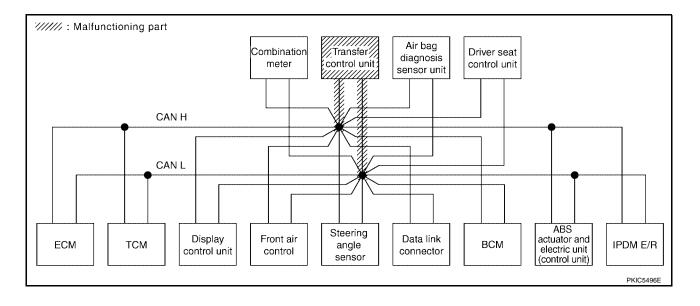
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Check transfer control unit circuit. Refer to LAN-201, "Transfer Control Unit Circuit Inspection" .

					C	CAN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	ecroon						Rece	eive diagr	nosis				SELE-DIAG	RESULTS
SELECT OF STEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-		UNKWN	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	1	1	UNKWN	UNKWN	UNKWN	1	CAN COMIC CIRCUIT (U 1000)	_
Display control unit	-	NG	UNKWN	UNKWN	1	UNKWN	1	UNKWN	UNKWN	-	-	UNKWN	-	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	—	-	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	No inditation	1	UNKWN	UNKWN	UNKWN	-	UNKWN	1	-	ł	UNKWN	1	CAN COMM CIRCUIT (U 1000)	
AUTO DRIVE POS.	No indication		—	_	UNKWN	-	-	UNKWN	UNKWN	-	-	1	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNIÓWN	-	-	CAN COMICIRCUIT (U 100)	
IPDM E/R	No indication		UNKWN	UNKWN		-		UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	



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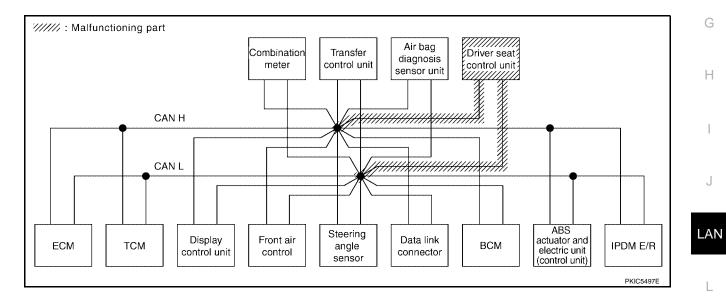
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### Case 12

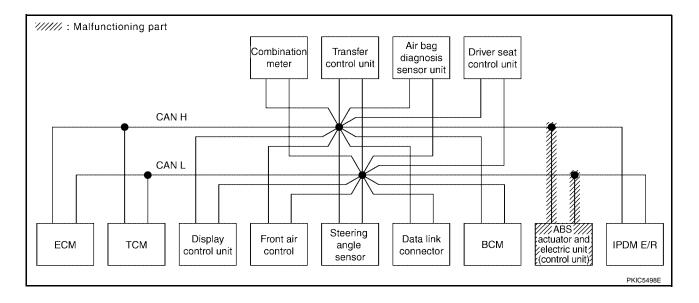
Check driver seat control unit circuit. Refer to LAN-202, "Driver Seat Control Unit Circuit Inspection" .

					C	CAN DIAG	SUPPC	ORT MNT	R					
SELECT SYSTEM	scroon		+				Rec	eive diag	nosis				SELF-DIAG	BESHITS
SELECT STOTEM	Jucon	Initial diagnosis	Transmit diagnosis		тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-		UNKWN	—	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-		_	UNKWN	UNKWN	UNKWN	1	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)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	—	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	1	UNKWN	I	CAN COMM CIRCUIT (U1000)	ł
AUTO DRIVE POS.	No indivation		-	-	UNKWN	-		UNKWN	UNKWN	-	-	1	CAN COMICIRCUIT (U 000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	-	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN			-	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	



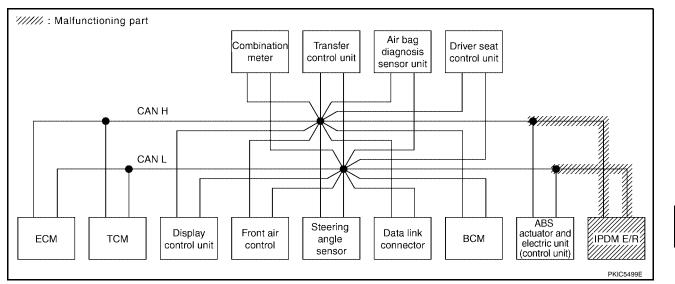
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "<u>ABS Actuator and Electric Unit</u> (<u>Control Unit</u>) <u>Circuit Inspection</u>".

					C	CAN DIAG	SUPPO	RT MNT	R					
SELECT SYSTEM	coroon		_				Rece	eive diag	nosis					RESULTS
SELECT STOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE	-	—	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKVN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	+		-	-	UNKWN	UNKWN		-	CAN COMM CIRCUIT (U 100)	-
Display control unit		NG	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	-	1	UNKWN	-	
BCM	No indication	NG	UNKWN	UNKWN	-	-			UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	-	UNK	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN		UNKWN	—	-			-	CAN COMM CIRCUIT (U 000)	
AUTO DRIVE POS.	No indication	—	-	Ι	UNKWN	-	-	UNKWN	UNKWN	—	-	I	CAN COMM CIRCUIT (U1000)	_
ABS	-	V	UNKWN	UNKWN	UNKAN		UNKVN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	
IPDM E/R	No indication		UNKWN	UNKWN	_	_		UNKWN	-		-	Ι	CAN COMM CIRCUIT (U1000)	



## Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

					C	CAN DIAG	SUPPC	RT MNT	R						
SELECT SYSTEM	scroon		+	Receive diagnosis								SELF-DIAG RESULTS			
SELECT STOTEM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC		
ENGINE	—		UNKWN	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)	
A/T	-	NG	UNKWN	UNKWN	-	-		-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_	
Display control unit	-	NG	UNKWN	UNKWN	1	UNKWN		UNKWN	UNKWN	-	-	UNKIN	-	—	
BCM	No indication	NG	UNKWN	UNKWN	-	—	-	-	UNKWN	-	-	UNKIN	CAN COMM CIRCUIT (U1000)	-	
METER	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U 200)	—	
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN		UNKWN	-	-		UNKWN		CAN COMM CIRCUIT (U1000)	-	
AUTO DRIVE POS.	No indication		—	_	UNKWN			UNKWN	UNKWN	—	-	—	CAN COMM CIRCUIT (U1000)		
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	-	-	UNKWN		—	CAN COMM CIRCUIT (U1000)		
IPDM E/R	No individuation	-	UNKWN	UNKWN			-	UNKWN	-		-	_	CAN COMM CIRCUIT (U 1000)		



### Case 15

Check CAN communication circuit. Refer to LAN-203, "CAN Communication Circuit Inspection" .

					C	CAN DIAC	SUPPC	RT MNT	R					
SELECT SYSTEM	ecreen		_				Rec	eive diag	nosis					RESULTS
BLLLOT BTOTLM	sereen	Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE			UNKWN	1	UNKVN	-	-	UNKWN		UNKWN	UNKVN	UNKIVN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	-	UNKVN	UNKWN		-	CAN COMM CIRCUIT (U 1000)	
Display control unit		NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKIN	1	-	UNK	-	
BCM	No inditation	NG	UNKWN	UNKWN	-	-		_	UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditiation	-	UNKWN	UNKWN	UNKWN	-		UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	No inditation	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	1	-	UNKWN	1	CAN COMM CIRCUIT (U 200)	-
AUTO DRIVE POS.	No individuation	—	-	-	UNKWN	—	-	UNKWN	UNKWN		-	-	CAN COMM CIRCUIT (U 1000)	-
ABS	-	V		UNKWN			UNKWN	-	-	UNKWN	I	-	CAN COMY CIRCUIT (U 000)	_
IPDM E/R	No indNation		UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMIC CIRCUIT (U 100)	_

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## LAN-193

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					C	CAN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	scroon		<b>+</b>	Receive diagnosis								SELF-DIAG RESULTS		
OLLEOT OT OT OT LIM		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	_		UNKWN	-	UNKIVN			UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (UV00)	CAN COMM CIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN		-		—	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)	
METER	No indication	—	UNKWN	UNKWN		-	-	UNKWN	-	—	UNKIVN	UNKWN	CAN COMM CIRCUIT (U 200)	—
ALL MODE AWD/4WD	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN		-		UNKVN	-	CAN COMM CIRCUIT (U 1000)	-
AUTO DRIVE POS.	No indication		-	-	UNKWN	-		UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	-	1	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 <u>LAN-204</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					C	CAN DIAG	SUPPO	RT MNT	7					
SELECT SYSTEM	scroon		+ .		Receive diagnosis							SELF-DIAG RESULTS		
OLLEOT OT OT OT		Initial diagnosis	Transmit diagnosis	ECM	тсм	Front air control	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-	-	UNKWN	_	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	-	NG	UNKWN	-	-	-	-	_	-		UNKWN	1	CAN COMM CIRCUIT (U 1000)	
Display control unit		NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	1	1	-	UNKWN	I	CAN COMM CIRCUIT (U1000)	H
AUTO DRIVE POS.	No indication			1	UNKWN		-	UNKWN	UNKWN	—	-	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	-	UNKWN	-	-	-	-	—	I	1	CAN COMIN CIRCUIT (U 100)	_
IPDM E/R	No indication	-	UNKWN	UNKWN		-	-	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	

## **TROUBLE DIAGNOSIS FOR SYSTEM**

## BAT Harness connector SMJ 52G, 51G Ω LAN-195 2006 Pathfinder **Revision: September 2005**

## **TROUBLE DIAGNOSIS FOR SYSTEM**

## Inspection Between TCM and Data Link Connector Circuit

## **1. CHECK CONNECTOR**

- Turn ignition switch OFF. 1.
- 2. Disconnect the battery cable from the negative terminal.
- Check following terminals and connectors for damage, bend and loose connection (connector side and 3. harness side).
- Harness connector F14
- Harness connector E5
- Harness connector E152
- Harness connector M31

#### 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. 1.
- Check continuity between A/T assembly harness connector and 2. harness connector.

A/T assemb	bly connector	Harness	connector	Continuity
Connector	Terminal	Connector	Terminal	Continuity
F9	3	F14	2	Yes
15	8	114	3	Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness.

## 3. CHECK HARNESS FOR OPEN CIRCUIT

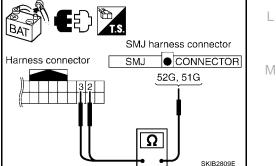
- 1. Disconnect harness connector E152.
- Check continuity between harness connector and SMJ harness 2. connector.

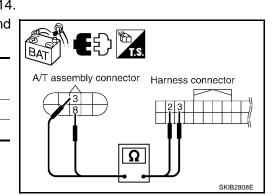
Harness	connector	SMJ harnes	ss connector	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E5	2	E152	52G	Yes
LJ	3	LIJZ	51G	Yes

#### OK or NG

OK >> GO TO 4.

NG >> Repair harness. A/⊤ assembly connector Harness connector Ω SKIB2808F LAN





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## 4. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between SMJ harness connector and data link connector.

SMJ harnes	ss connector	Data link	connector	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M31	52G	M22	6	Yes
10121	51G	IVIZZ	14	Yes

#### OK or NG

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

NG >> Repair harness.

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

## 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 M91
- Harness connector E26

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

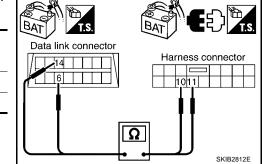
- 1. Disconnect harness connector M91.
- 2. Check continuity between data link connector and harness connector.

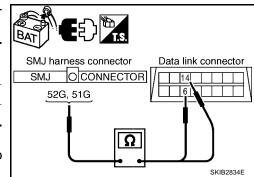
Data link	Data link connector		connector	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M22	6	M91	11	Yes
IVIZZ	14	10131	10	Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness.





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Harness connector

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## 3. CHECK HARNESS FOR OPEN CIRCUIT

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

Harness	connector		and electric unit t) connector	Continuity
Connector	Terminal	Connector	Terminal	
E26	11	E125	11	Yes
L20	10		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**

#### 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 E2
- Harness connector F32

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

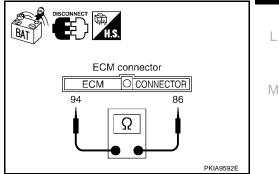
- 1. Disconnect ECM connector.
- 2. Check resistance between ECM harness connector terminals.

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

#### OK or NG

OK >> Replace ECM.

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



## **TCM Circuit Inspection**

## 1. CHECK CONNECTOR

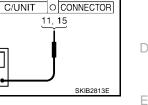
- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- Check terminals and connector of A/T assembly for damage, bend and loose connection (control module side and harness side).

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

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ABS actuator and electric unit (control unit) connector

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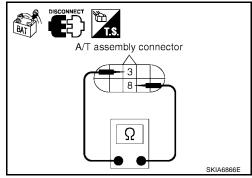
## 2. CHECK HARNESS FOR OPEN CIRCUIT

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

A/T assembly connector	Terr	ninal	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.



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## Display Control Unit Circuit Inspection 1. CHECK CONNECTOR

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

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

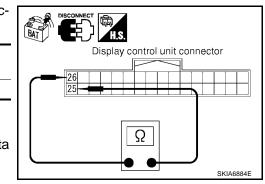
## 2. CHECK HARNESS FOR OPEN CIRCUIT

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

Display control unit connector	Ter	Terminal		
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.



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## Front Air Control 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 front air control for damage, bend and loose connection (unit side and harness side).

#### OK or NG

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

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2. CHECK HAR	NESS FOR OPEN				А
1. Disconnect from	ont air control con	nector.			
2. Check resista terminals.	ance between fror	nt air control ha	arness connector	ED TS	В
Front air control connector	Termi	nal	Resistance (Approx.)	Front air control connector	С
M50	41	42	54 – 66 Ω	4142	0
	ace front air contro ir harness betwee ector.		rol and data link		D
Steering Ang		cuit Inspect	tion	SKIB2814E	E
1. CHECK CON					F
1. Turn ignition		<i>a c</i>			
3. Check termin				age, bend and loose connection (sensor	G
side and harn	iess side).				
OK or NG OK >> GO T NG >> Repa	O 2. ir terminal or conn	ector.			Н
2. CHECK HAR					
1. Disconnect st	eering angle sens	or connector			1
	ance between stee		sor harness con-		J
Steering angle sensor connector	Termi	nal	Resistance (Approx.)	Steering angle sensor connector	LA
M47	4	5	54 – 66 Ω		LA
NG >> Repa	ace steering angle ir harness betwee onnector.		sensor and data		L
Data Link Co	nnector Circu	it Inspectio	n	PKIA9864E UKS0051K	M

## 1. CHECK CONNECTOR

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

## OK or NG

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

## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

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

#### OK or NG

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

NG >> Repair harness between data link connector and BCM.

## **BCM Circuit Inspection**

## 1. CHECK CONNECTOR

Data link connector

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

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

#### OK or NG

- OK >> Replace BCM. Refer to <u>BCS-27, "Removal and Installa-</u> tion"
- NG >> Repair harness between BCM and data link connector.

## Combination Meter Circuit Inspection

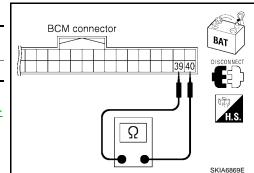
## 1. CHECK CONNECTOR

- 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.



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## 2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

#### OK or NG

OK >> Replace combination meter.

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

# B Combination meter connector

## **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 ter

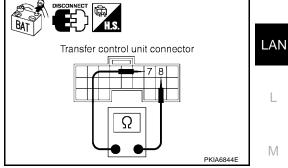
>> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

#### All-mode 4WD system

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

Transfer control unit connector	Terminal		Resistance (Approx.)
M152	7	8	54 – 66 Ω



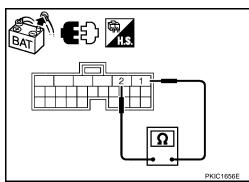
Part time 4WD system

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

Transfer control unit connector	Ten	ninal	Resistance (Approx.)
M152	1	2	54 – 66 Ω

## OK or NG

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



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## TROUBLE DIAGNOSIS FOR SYSTEM

## **Driver Seat Control Unit Circuit Inspection**

## 1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- Check following terminals and connectors for damage, bend and loose connection (control unit side and 3. harness side).
- Driver seat control unit connector
- Harness connector P1
- Harness connector B37
- Harness connector B69
- Harness connector M40

## OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

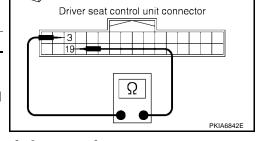
## 2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

## OK or NG

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



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## **ABS Actuator and Electric Unit (Control Unit) Circuit Inspection** 1. CHECK CONNECTOR

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

## OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

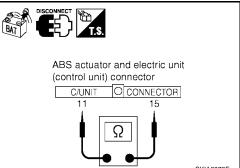
- 1. Disconnect ABS actuator and electric unit (control unit) connector.
- Check resistance between ABS actuator and electric unit (con-2. trol unit) harness connector terminals.

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

## OK or NG

OK >> Replace ABS actuator and electric unit (control unit).

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



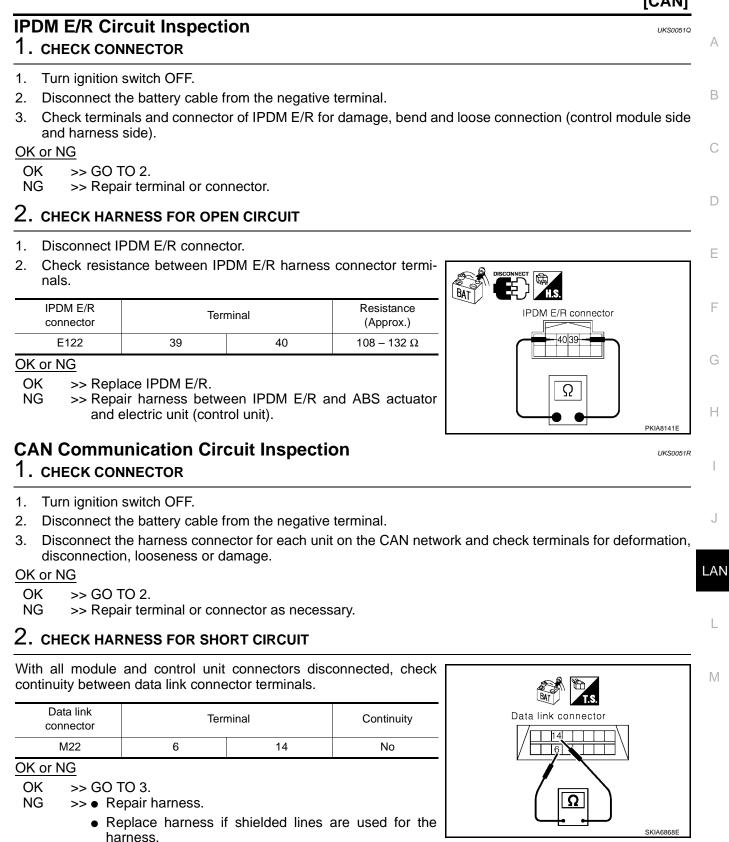


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## TROUBLE DIAGNOSIS FOR SYSTEM

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## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.				
Data link connector			Continuity	[
	6	Ground	No	
M22	14		No	
	·	•		

#### OK or NG

OK >> GO TO 4.

NG >> • Repair harness.

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

## 4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

#### 1. Remove ECM and IPDM E/R from vehicle.

2. Check resistance between ECM terminals.

	Terr	Resistance (Approx.)			
	94	86	108 – 132 Ω		
3.	B. Check resistance between IPDM E/R terminals.				
	Terr	Resistance (Approx.)			

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

#### OK or NG

OK >> GO TO 5.

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

## 5. снеск сумртом

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

#### Check results

Reproduced>>GO TO 6.

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

## 6. UNIT REPRODUCIBILITY INSPECTION

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

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

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

#### Inspection results

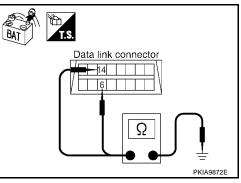
Reproduced>>Connect the disconnected connector. Check other units applying the above procedure. Not reproduced>>Replace the unit that the connector is disconnected.

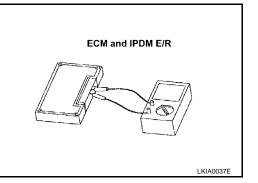
## **IPDM E/R Ignition Relay Circuit Inspection**

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

## LAN-204

2006 Pathfinder





## **TROUBLE DIAGNOSIS FOR SYSTEM**

	[CAN]	
•	IPDM E/R power supply circuit. Refer to PG-30, "IPDM E/R Power/Ground Circuit Inspection".	I
•	Ignition power supply circuit. Refer to <u>PG-14, "IGNITION POWER SUPPLY — IGNITION SW. IN ON</u> <u>AND/OR START"</u> .	А
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