

CHECK SHEET RESULTS (EXAMPLE)91

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MNTR" SCREEN FOR TRANSFER CONTROL

DESCRIPTION OF "CAN DIAG SUPPORT

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PRECAUTIONS

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PRECAUTIONS PFP:00001

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

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

WARNING:

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

Precautions When Using CONSULT-II

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

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

CHECK POINTS FOR USING CONSULT-II

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

Precautions For Trouble Diagnosis **CAN SYSTEM**

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

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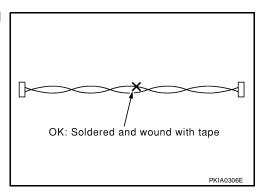
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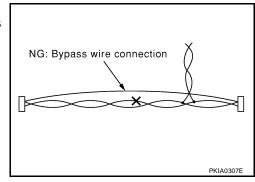
Precautions For Harness Repair CAN SYSTEM

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



 Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)



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TROUBLE DIAGNOSES WORK FLOW

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

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

WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

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

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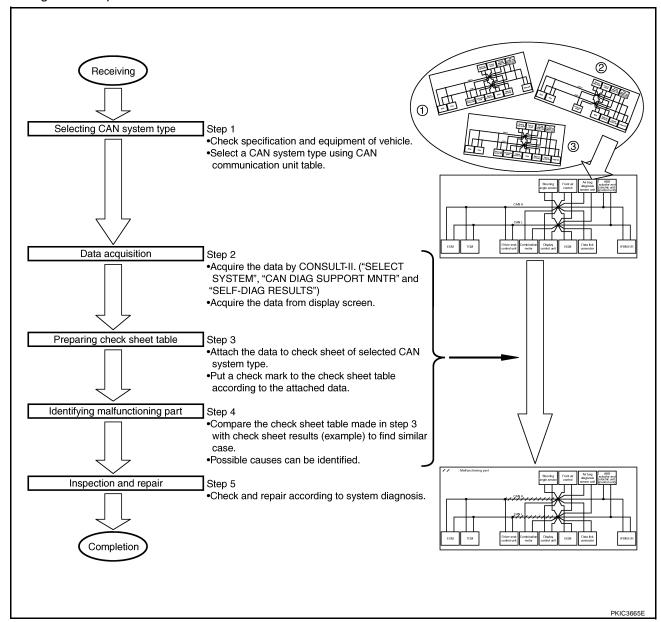
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TROUBLE DIAGNOSIS FLOW CHART

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



- Step 1: Refer to LAN-7, "SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)".
- Step 2: Refer to <u>LAN-8</u>, "ACQUISITION OF DATA BY CONSULT-II".
- Step 3: Refer to LAN-9, "HOW TO USE CHECK SHEET TABLE".
- Step 4: Refer to LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- Step 5: Refer to <u>LAN-141</u>, "TROUBLE <u>DIAGNOSIS FOR SYSTEM"</u>.

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

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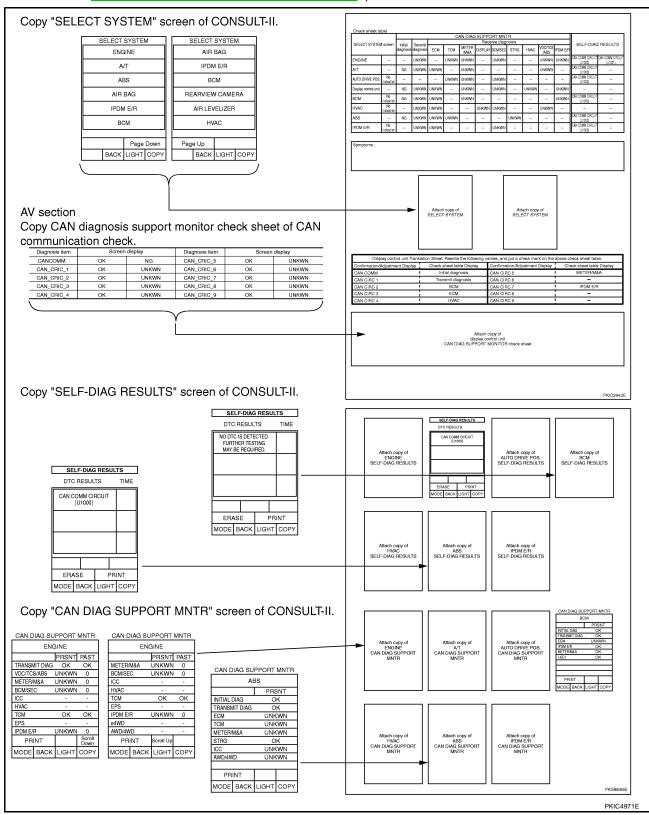
Determine CAN system type from the equipment of the vehicle to select applicable check sheet.

Body type			Wa	.gon			·)
Axle		2WD			4WD		- (
Engine			VK5	6DE			Check basic specification of the vehicle.
Transmission			Α	/Т			-
Brake control			V	ЭС			· J
Automatic drive positioner		×	×		×	×	Select "x" if it is model with automatic drive positione
Navigation system			×			×	Select "×" if it is model with navigation system.
CAN system type	1	2	3	4	5	6	Which number is calcuted when acquentially calcutin
CAN system trouble diagnosis	XX:XX	XX:XX	XX.XX	XX:XX	XX:XX.	XX:XX	Which number is selected when sequentially selectin from the top of the specification table?
×: Applicable							The number is "CAN system type" of the applicable vehicle.
							In the case of this example:
							It corresponds to type 3.

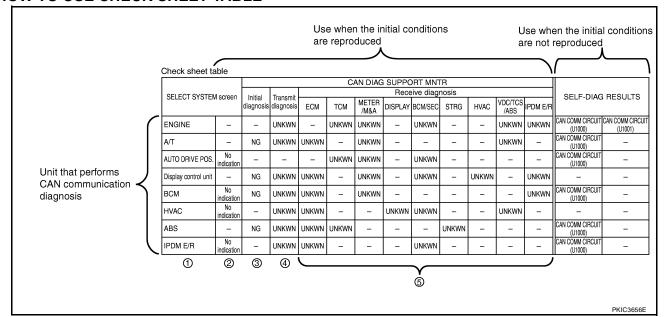
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ACQUISITION OF DATA BY CONSULT-II

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



HOW TO USE CHECK SHEET TABLE



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

CAN communication diagnosis checks if CAN communication works normally. (Contents of data are not diag-

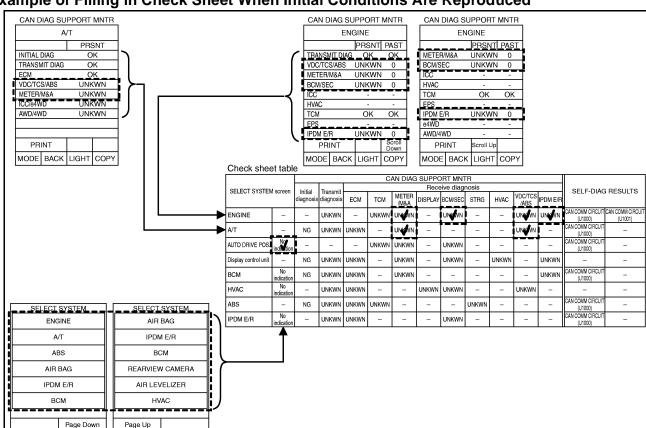
- When the initial conditions are reproduced, refer to LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- When the initial conditions are not reproduced, refer to LAN-14, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced".

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Example of Filling in Check Sheet When Initial Conditions Are Reproduced

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

NOTE:

BACK LIGHT COPY

BACK LIGHT COPY

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

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

NOTE:

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

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

NOTE:

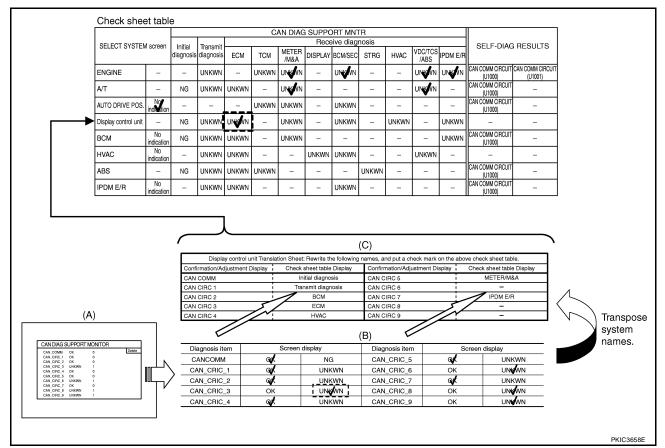
For "A/T", "UNKWN" is displayed on "VDC/TCS/ABS", "METER/M&A", "ICC/e4WD" and "AWD/4WD".
 But put a check mark to "VDC/TCS/ABS" and "METER/M&A" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

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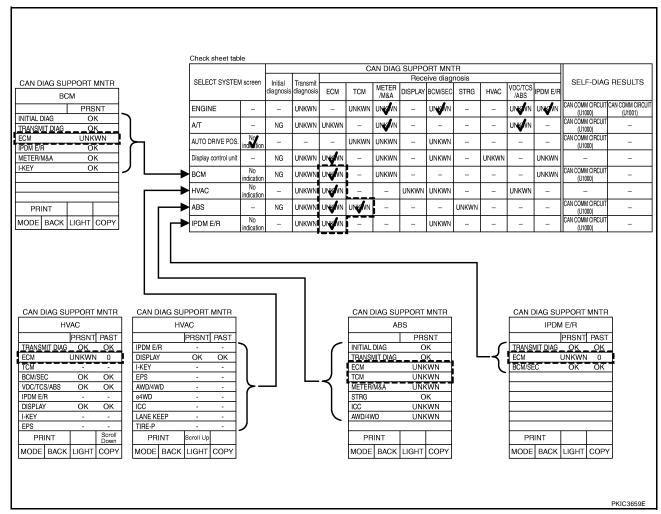


4. Display control unit reads the CAN diagnosis support monitor check sheet (B) AV-144, "CAN Communication Line Check" transferred from the display screen (A). The transferred CAN diagnosis support monitor check sheet is copied to the Check sheet, and conversed according to the Display control unit Translation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

NOTE:

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

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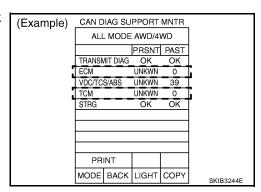
Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen
of "BCM", "HVAC", "ABS" and "IPDM E/R" as well as "ENGINE". And then, put a check mark to the check
sheet table.

NOTE:

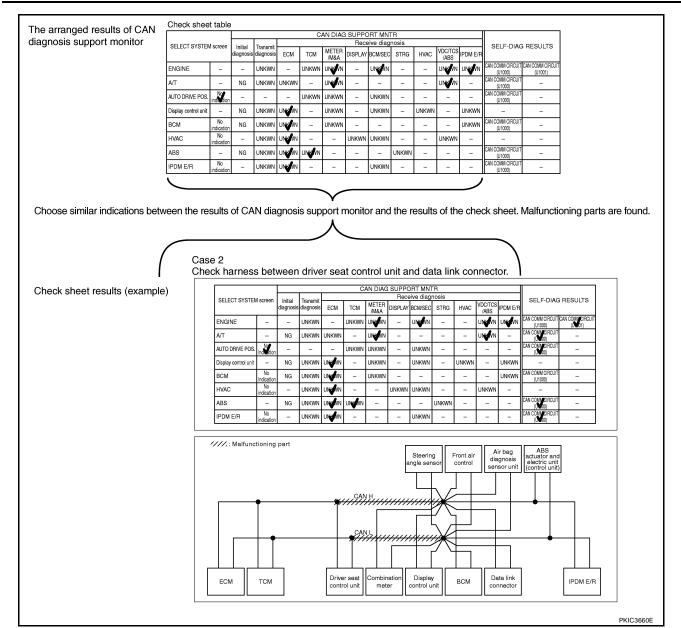
- For "BCM", "UNKWN" is displayed on "ECM". Put a check mark to it.
- For "HVAC", "UNKWN" is displayed on "ECM". Put a check mark to it.
- For "ABS", "UNKWN" is displayed on "ECM", "TCM", "METER/M&A", "ICC" and "AWD/4WD". But put a check mark to "ECM" and "TCM" because "UNKWN" is listed on the column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

CAUTION:

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



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NOTE:

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

- Perform system diagnosis for possible causes identified.
- 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</u>, "CAN Communication Unit".

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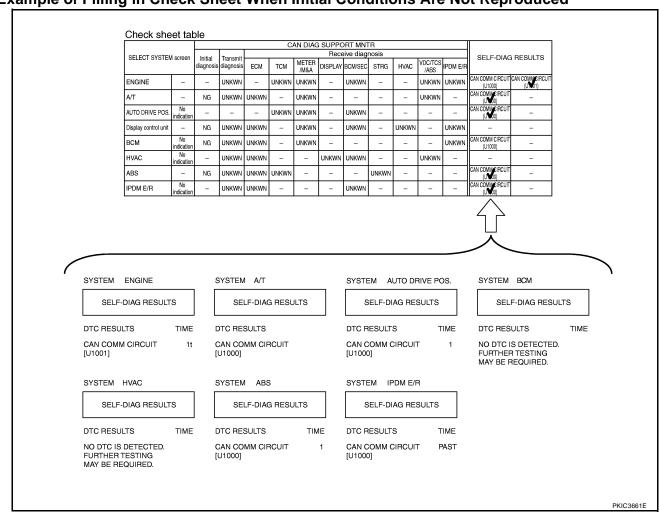
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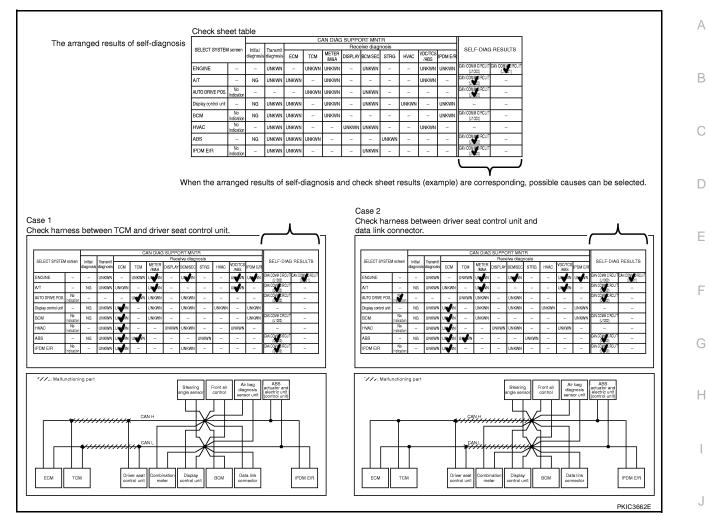
Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced

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

NOTE:

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

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NOTE:

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

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

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

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(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR
	ENGINE	ENGINE
	PRSNT PAST	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 PKIC3562E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	ICC	ICC is not diagnosed.	_	
ENGINE	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 control unit.	OK/UNKWN/-	

Display Results (Present)

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

Display Results (Past)

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

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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN **FOR TCM**

(Example)	CAN D	IAG SU	MNTR		
. ,		A			
	INITIAL	DIAG			
	TRANS	/IT DIAG	0	K	
	ECM				
	VDC/TC	S/ABS			
	METER/M&A OK				
	ICC/e4WD UNKWN				
	AWD/4W	AWD/4WD OK			
	PRINT				
	MODE	BACK	LIGHT	COPY	SKIB2335E

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

Display Results (Present)

• OK: Normal

• NG: Malfunction

• UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

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

CAN D	IAG SU			
A	JTO DF			
TRANSA	IIT DIAG	-	-	
METER/	M&A	OK	OK	
BCM/SE	С	OK	OK	
TCM		OK	OK	
PR	NT			
MODE	BACK	LIGHT	COPY	PKIC4864E
	TRANSM METER// BCM/SE TCM	TRANSMIT DIAG METER/M&A BCM/SEC TCM PRINT	AUTO DRIVE PO PRSNT TRANSMIT DIAG - METER/M&A OK BCM/SEC OK TCM OK PRINT	METER/M&A

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

Display Results (Present)

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

Display Results (Past)

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

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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR BCM

(Example)	CAN	CAN DIAG SUPPORT MNTR					
		В	СМ				
			PRS	SNT			
	INITIAL	DIAG		K			
	TRANS	MIT DIAG	G 0	K			
	ECM		0	K			
	IPDM E	/R	0				
	METER	/M&A	0				
	I-KEY OK						
	PR	INT					
	MODE	BACK	LIGHT				
					SKIB1625E		

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

Display Results (Present)

OK: Normal

• NG: Malfunction

• UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

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

(Example)	CAN DIAG SUPPORT MNTR CAN DIAG S	SUPPORT MNTR
	HVAC	HVAC
	PRSNT PAST	PRSNT PAST
	TRANSMIT DIAG OK OK IPDM E/R	
	ECM OK OK DISPLAY	OK OK
	TCM I-KEY	
	BCM/SEC OK OK EPS	
	VDC/TCS/ABS OK OK AWD/4WD	
	IPDM E/R e4WD	
	DISPLAY OK OK ICC	
	I-KEY LANE KEEP	
	EPS TIRE-P	
	PRINT Scroll Down PRINT	Scroll Up
	MODE BACK LIGHT COPY	K LIGHT COPY PKIC4721E

"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/-	
	TCM	TCM is not diagnosed.	_	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
HVAC	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	IPDM E/R	IPDM E/R is not diagnosed.	_	
	DISPLAY	Make sure of normal reception from display control unit.	OK/UNKWN/-	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)

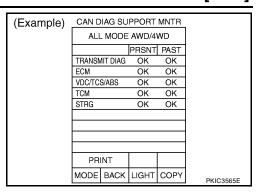
- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 ~ 39: Displays when it 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]

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



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

Display Results (Present)

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

CAUTION:

"UNKWN" is indicated by erasing the self-diagnosis result when any malfunction was detected in past.

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

Display Results (Past)

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

CAUTION:

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

ĺ	(Example)	CAN D	IAG SU	PPORT	MNTR	
١	. ,	ALL	MODE	AWD/4	WD	
				PRSNT	PAST	
		TRANSM	IIT DIAG	OK	OK	
	ī	ECM		UNKWN	0	:
	i	VDC/TCS	S/ABS	UNKWN	39	!
	:	TCM		UNKWN	0	!
		STRG		OK	OK	
		PRI	NT			
		MODE	BACK	LIGHT	COPY	SKIB3246E

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[CAN]

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

(Example)	CAN D	IAG SU	PPORT	MNTR	
` ' '		ΑE	38		
			PRS	SNT	
	INITIAL I	DIAG	С	ΙK	
	TRANSN	1IT DIAG			
	ECM				
	TCM		С	ΙK	
	METER/	M&A	UNF	(WN	
	STRG		С	ΙK	
	ICC		UNF	(WN	
	AWD/4W	'D	C	K	
	PR	INT			
	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	TCM	Make sure of normal reception from TCM.	OK/UNKWN
ABS	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.

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

(Example)	CAN D	IAG SU	PPORT	MNTR	
` ',		IPDN	IE/R		
			PRSNT	PAST	
	TRANSA	IIT DIAG	ОК	ОК	
	ECM		OK	OK	
	BCM/SE	С	OK	OK	
	PR	INT			
	MODE	BACK	LIGHT	COPY	SKIB0595E

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

Display Results (Present)

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

Display Results (Past)

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

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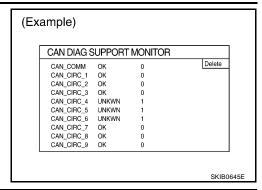
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Revision: July 2007 LAN-23 2006 Armada

[CAN]

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



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		
Display control unit	CAN CIRC 3	Make sure of normal reception from ECM.	OK/UNKWN		
	CAN CIRC 4	Make sure of normal reception from front air control.	OK/UNKWN	0/1~50	
	CAN CIRC 5	Make sure of normal reception from combination meter.	OK/UNKWN	0/1~30	
	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 : NormalNG : Malfunction

• UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

Display Results: Error Counter (Reference)

• 0: It is normal now.

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

[CAN]

CAN COMMUNICATION

PFP:23710

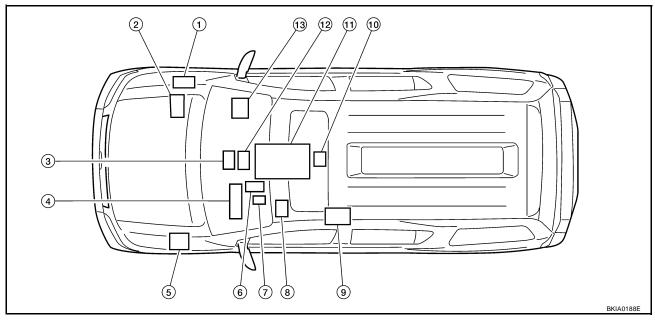
System Description

UKS000NU

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

Component Parts and Harness Connector Location

UKS004R3



- 1. ECM E16
- 4. Combination meter M24
- 7. Data link connector M22
- 10. Air bag diagnosis sensor unit M35
- Transfer control unit E142 (with 4– wheel drive)
- 2. IPDM E/R E122
- 5. ABS actuator and electric unit (control unit) E125
- 8. Steering angle sensor M47
- 11. A/T assembly F9

- 3. Display control unit M95 (with NAVI)
- 6. BCM M18
- Driver seat control unit P2 (with automatic drive positioner)
- 12. Front air control M50

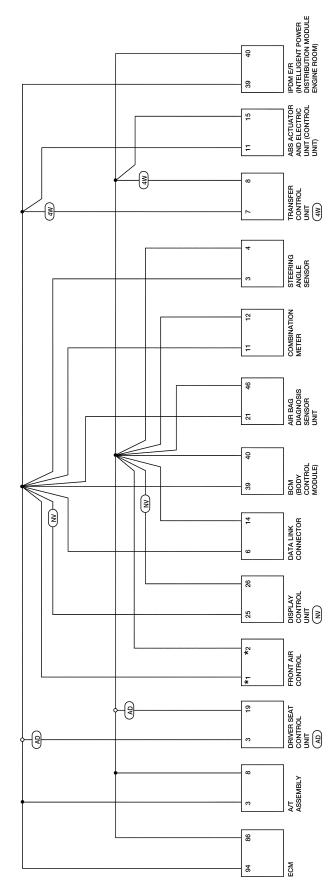
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Schematic UKS004R4



BKWA0642E

 $\frac{4W}{\Delta D}: WITH 4-WHEEL DRIVE \\ \frac{\Delta D}{\Delta D}: WITH AUTOMATIC DRIVE POSITIONER \\ \frac{EA}{KD}: FRONT AIR CONTROL WITH DISPLAY \\ \frac{KU}{KC}: WITH NAVI \\ \frac{KC}{KC}: FRONT AIR CONTROL WITHOUT DISPLAY \\ \frac{KC}{KC}: FRONT$

*1 KC : 34 KC : 35 KC

Wiring Diagram — CAN —

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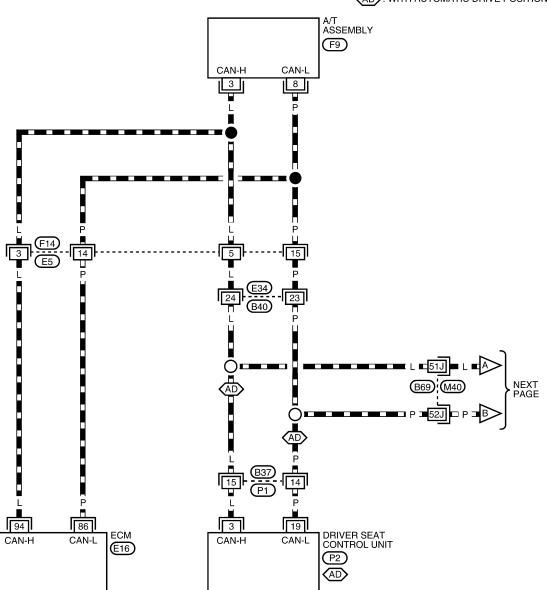
LAN

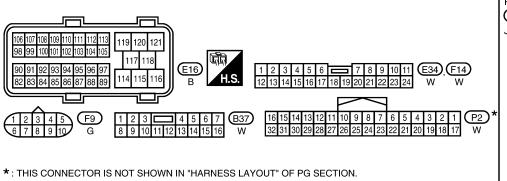
M

LAN-CAN-01

■□■ : DATA LINE

(AD): WITH AUTOMATIC DRIVE POSITIONER



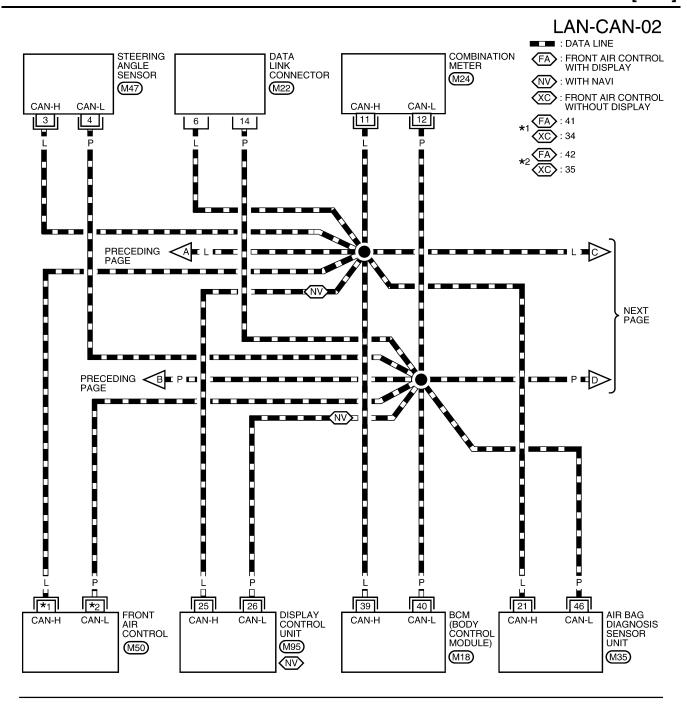


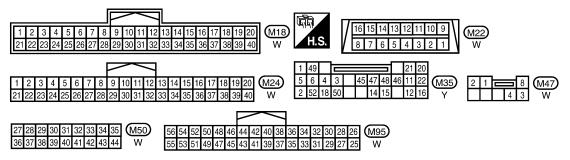
REFER TO THE FOLLOWING.

M40 - SUPER MULTIPLE

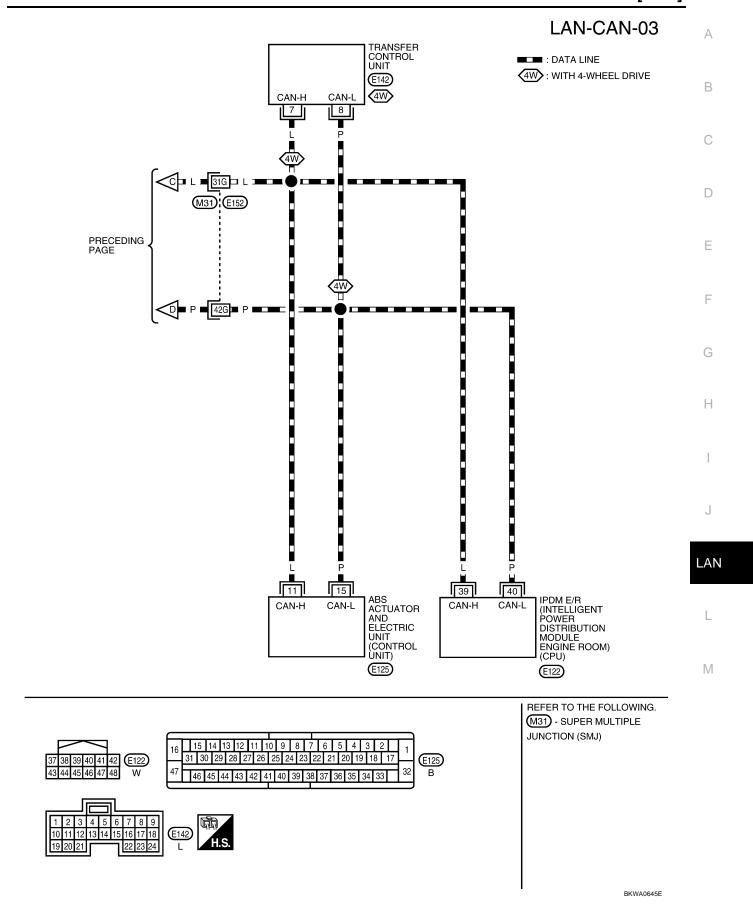
JUNCTION (SMJ)

BKWA064





BKWA0644E



CAN Communication Unit

UKS000NV

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

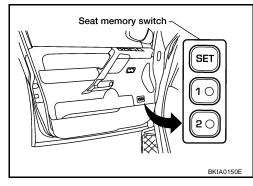
Body type			Wa	igon						
Axle		2WD			4WD					
Engine			VK5	6DE						
Transmission			А	/T						
Brake control	VDC									
Automatic drive positioner		×	×		×	×				
Navigation system			×			×				
CAN system type	1	2	3	4	5	6				
CAN system trouble diagnosis	LAN-38	LAN-53	LAN-70	LAN-88	LAN-104	LAN-122				

^{×:} Applicable

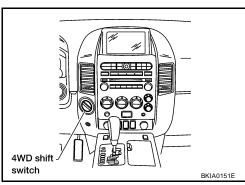
NOTE:

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

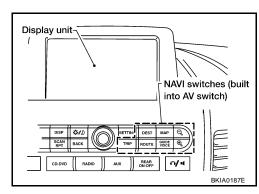
Models with automatic drive positioner



Models with 4WD



Models with navigation system



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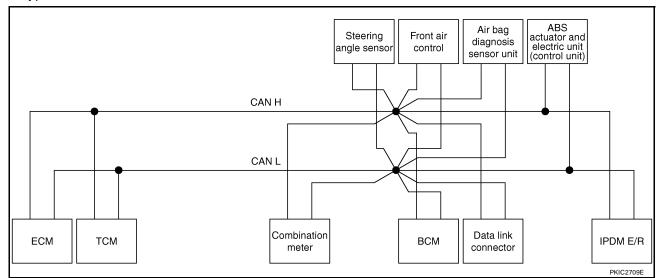
LAN

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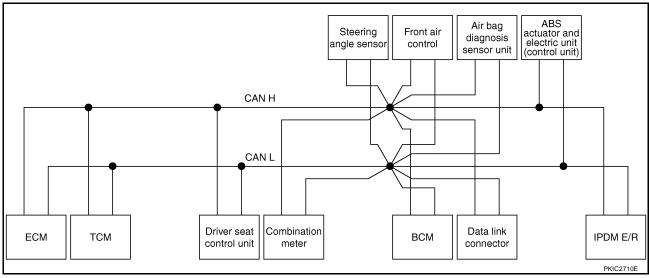
TYPE 1/ TYPE 2/TYPE3

System diagram

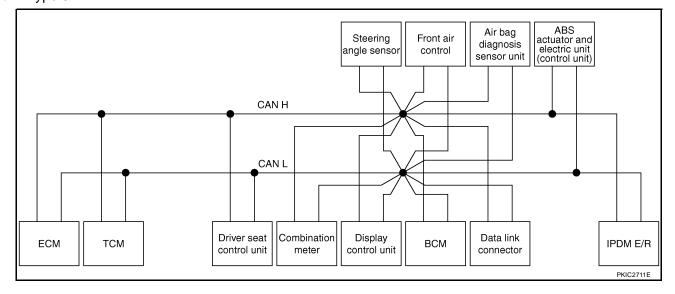
• Type 1



Type 2



Type 3



Input/output signal chart

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

CAN COMMUNICATION

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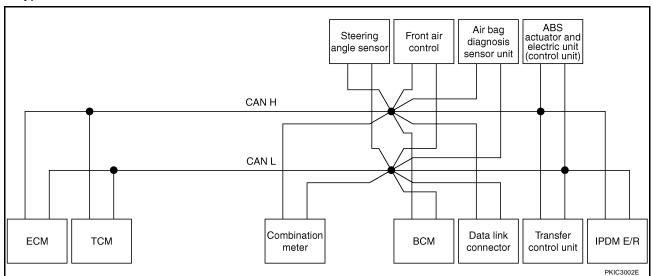
									L	CAN
Signals	ECM	TCM	Driver seat control unit	Combination meter	Display control unit*1	BCM	Steering angle sensor	Front air control	ABS actuator and electric unit (control unit)	IPDM E/R
Distance to empty signal				Т	R					
Fuel level low warning signal				Т	R					
Fuel level sensor signal	R			Т				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

^{• *1:} with navigation system model only

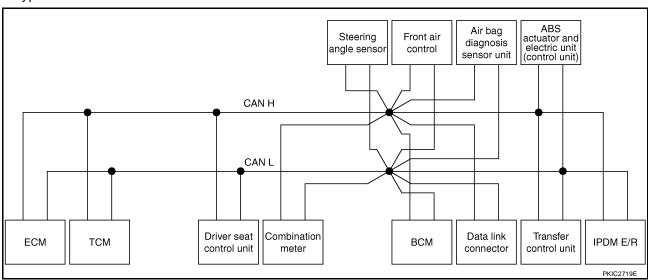
TYPE 4/ TYPE 5/TYPE6

System diagram

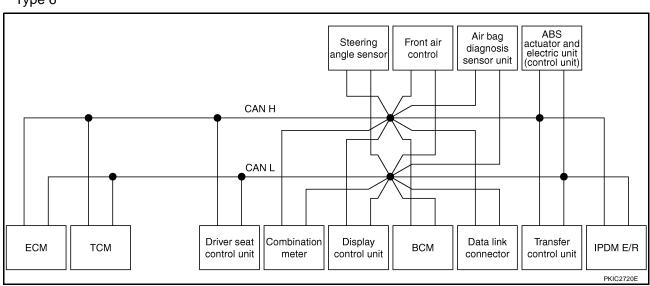
• Type 4



Type 5



Type 6



CAN COMMUNICATION

[CAN]

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

										<u>[</u>	CAN]
Signals	ECM	TCM	Driver seat control unit	Combination meter	Display control unit*1	BCM	Steering angle sensor	Front air control	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Vehicle speed signal				R				R	R	Т	
	R	R	R	Т	R	R					
A/C switch/indicator signal					T			R			
A/C quitab girmal					R	Т		T			
A/C switch signal Blower fan motor switch signal	R R					T		R			
Buzzer output signal	IX.			R		т Т					
Day time running light request signal				R		т Т					
Door switch signal			R	R	R	T					R
Front fog light request signal				- 1	- '	T					R
Front wiper request signal						T					R
High beam request signal				R		Т					R
High beam status signal	R										Т
Horn chirp signal						Т					R
Ignition switch signal			R			Т					
Key fob door unlock signal			R			Т					
Key fob ID signal			R			Т					
Key switch signal			R			Т					
Low beam request signal						Т					R
Low beam status signal	R										Т
Position light request signal				R		Т					R
Rear window defogger switch signal						Т		R			R
Sleep wake up signal			R	R		Т					R
Theft warning horn request signal						Т					R
Turn indicator signal				R		Т					
Tire pressure data signal					R	Т					
Tire pressure signal					R	Т					
Steering angle sensor signal							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					T
Rear window defogger control signal	R				R						Т

CAN COMMUNICATION

[CAN]

• *1: with navigation system model only

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[CAN] CAN SYSTEM (TYPE 1) Component Parts and Harness Connector Location Refer to LAN-25, "Component Parts and Harness Connector Location" Schematic Refer to LAN-26, "Schematic" Wiring Diagram — CAN —

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

[CAN]

Check Sheet

UKS004S4

NOTE:

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

SELECT SYSTEM school Total Initial diagnosis Team Team	Check sheet	table				CANIDIA	O CLIDDO	DT MAITD				1	
Attach copy of Atta						CAN DIA			nsis				
NG	SELECT SYST	EM screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER			VDC/TCS /ABS	IPDM E/R		
Attach copy of	NGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	-		UNKWN	(U1000)	AN COMM CIRCU (U1001)
Indication NG	/T		NG	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN		(U1000)	_
See NG	СМ	indication	NG	UNKWN	UNKWN	-	UNKWN	-	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Mattach copy of Attach copy of		indication	_	UNKWN	UNKWN	_	-	UNKWN	_	UNKWN	_	II I	_
ymptoms: Attach copy of Attach copy of			NG	UNKWN		UNKWN	_	_	UNKWN	-	_	(U1000)	_
Attach copy of Attach copy of	DM E/R	indication	-	UNKWN	UNKWN	-	-	UNKWN	_	-	-	(U1000)	-
				A SEL	ttach copy .ECT SYS	of TEM			Attach o	copy of SYSTEM			

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

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

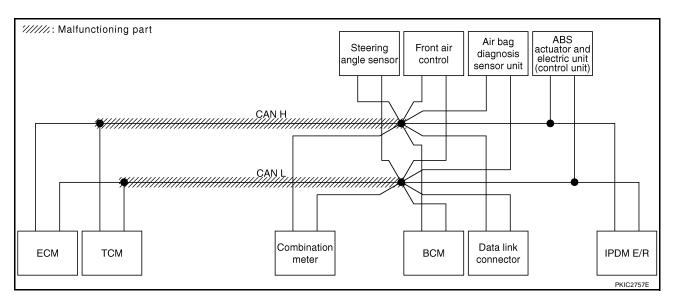
NOTE:

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-142</u>, "Inspection Between TCM and <u>Data Link Connector Circuit</u>".

					CAN DIA		RT MNTR					
SELECT SYST	EM screen	Initial	Transmit				eive diagn	osis			SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNK WN	UNK WN	_	nuk w u	UNK WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	UNK WN	-	-	nukwu	_	CAN COMM CIRCUIT (U. 000)	1
ВСМ	No indication	NG	UNKWN	UNK WN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNK WN	-	_	UNKWN	-	UNKWN	_	_	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	_	_	CAN COMM CIRCUIT (U. 000)	1
IPDM E/R	No indication	-	UNKWN	UNK WN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U. 000)	_



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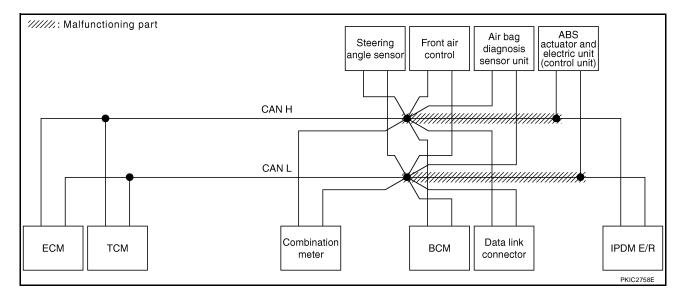
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-144</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN DIA	G SUPPO						
SELECT SYSTE	M screen	Initial	Transmit			Rec	eive diagn	osis			SELF-DIAG	RESULTS
02220101012	IN COLOCII	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	OZZI BINC	TILOGETO
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	-	nuk w u	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM 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)	-
HVAC	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	-	_	_
ABS	-	NG	UNKWN	UNK WN	UNK WN	_	_	UNKWN	_	1	CAN COMM CIRCUIT (U. 000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	1	CAN COMM CIRCUIT (U. 000)	_



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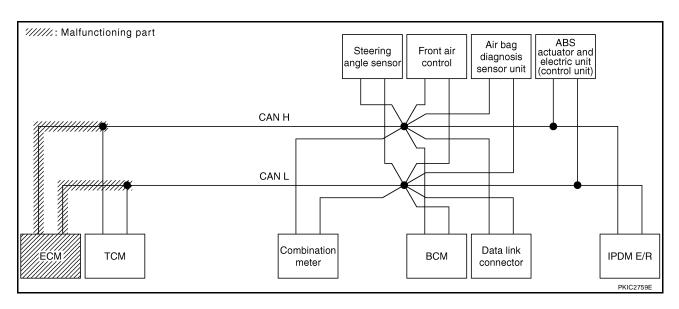
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Case 3
Check ECM circuit. Refer to <u>LAN-145</u>, "ECM Circuit Inspection" .

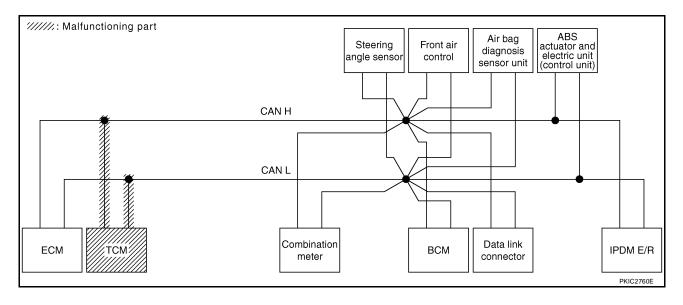
					CAN DIA		RT MNTR eive diagn	ocic				
SELECT SYST	EM screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_	UNKWN	1	UNKWN	UNKWN	UNKWN	_	UNK WN	UNKWN	CAN COMM CIRCUIT (U 200)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNK WN	-	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U. 000)	_
ВСМ	No indication	NG	UNKWN	UNK WN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNK WN	-	_	UNKWN	-	UNKWN	-	_	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	ı	CAN COMM CIRCUIT (U.000)	-
IPDM E/R	No indication	-	UNKWN	UNK WN	-	-	UNKWN	-	-	1	CAN COMM CIRCUIT (U 200)	-



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Case 4
Check TCM circuit. Refer to <u>LAN-146</u>, "TCM Circuit Inspection" .

					CAN DIA		RT MNTR					
SELECT SYSTI	M screen	Initial	Transmit			Rec	eive diagn	osis			SELF-DIAG	RESULTS
32223131311	-III 0010011	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	022, 5,,,,	
ENGINE	_	-	UNKWN	-	UNK WN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNK W N	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U 100)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	-	_	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	1	CAN COMM CIRCUIT (U.000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_



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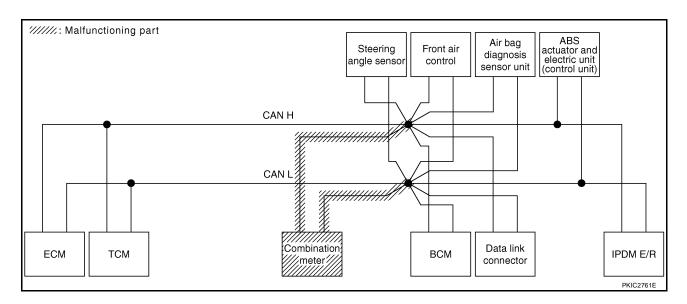
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Case 5
Check combination meter circuit. Refer to <u>LAN-147</u>, "Combination Meter Circuit Inspection" .

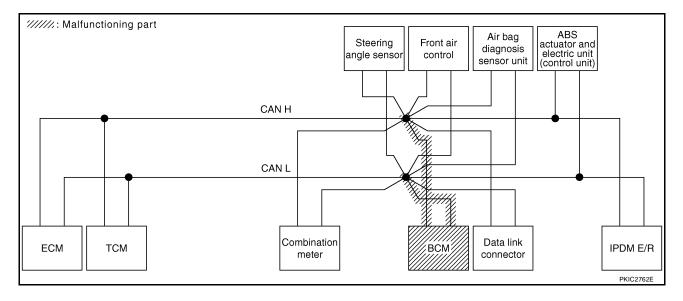
					CAN DIA		RT MNTR					
SELECT SYST	EM screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	METER /M&A	eive diagn BCM/SEC	osis STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	-	UNKWN	1	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A/T	_	NG	UNKWN	UNKWN	-	UNK WN	_	-	UNKWN	_	CAN COMM CIRCUIT (U. 000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNK WN	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	_	-	UNKWN	-	UNKWN	-	_	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-



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Case 6
Check BCM circuit. Refer to <u>LAN-148</u>, "BCM Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYST	FM screen	Initial	Transmit			Rec	eive diagn	osis			SELF-DIAG	RESULTS
OLLLO1 0101	LIW SCIECTI	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	J SELI-DIAC	TILOULIO
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNK WN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN001)
A/T	1	NG	UNKWN	UNKWN	ı	UNKWN	ı	ı	UNKWN	ı	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indivation	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	-	_	_
ABS	1	NG	UNKWN	UNKWN	UNKWN	ı	-	UNKWN	_	ı	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	ı	UNKWN	UNKWN	-	-	UNKWN	_	_	1	CAN COMM CIRCUIT (UN00)	-



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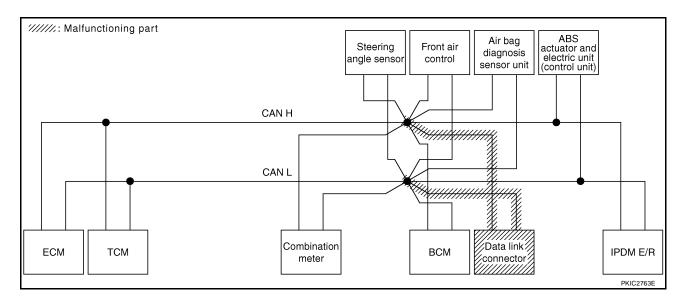
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Case 7
Check data link connector circuit. Refer to <u>LAN-148</u>, "<u>Data Link Connector Circuit Inspection</u>" .

					CAN DIA							
SELECT SYSTE	M screen	Initial	Transmit		1		eive diagn	osis			SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	ı	UNKWN	I	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indivation	1	UNKWN	UNKWN	-	ı	UNKWN	ı	UNKWN	1	_	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	ı	-	UNKWN	-	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-

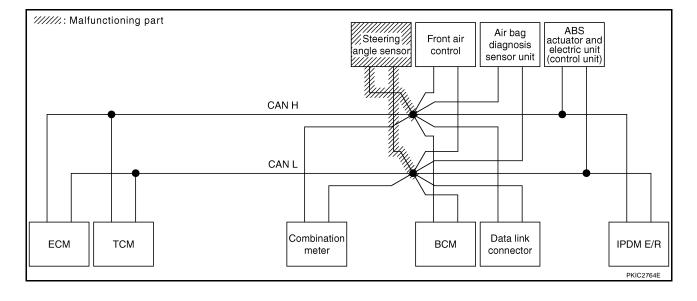


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Case 8
Check steering angle sensor circuit. Refer to <u>LAN-149</u>, "Steering Angle Sensor Circuit Inspection" .

					CAN DIA							
SELECT SYST	FM screen	Initial	Transmit			Rec	eive diagn	osis			SELF-DIAG	RESULTS
OLLLOT GTOT	LIWI SCICCII	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TILOOLIO
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)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	1	UNKWN	UNKWN	1	ı	UNKWN	ı	UNKWN	1	_	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	ı	_	UNKWN	_	ı	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	1	UNKWN	UNKWN	1	-	UNKWN	-	-	1	CAN COMM CIRCUIT (U1000)	_



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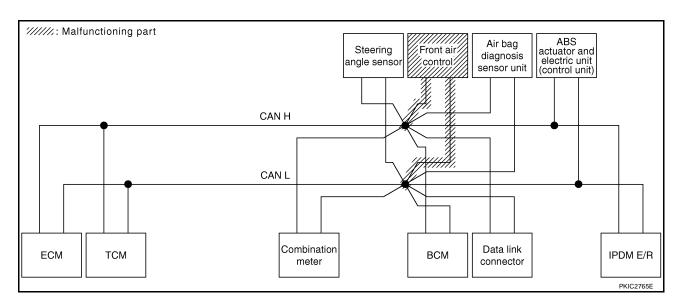
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Case 9
Check front air control circuit. Refer to <u>LAN-149</u>, "Front Air Control Circuit Inspection".

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTE	M screen	Initial	Transmit			Red	eive diagn	osis			SELF-DIAG	RESULTS
02220101011	IN COLCOL	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	OEEI BING	TTEOOETO
ENGINE	-	_	UNKWN	ı	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	ı	UNKWN	I	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	ı	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	_	ı	UNKWN	ı	UNKWN	ı	_	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	ı	_	UNKWN	_	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	-

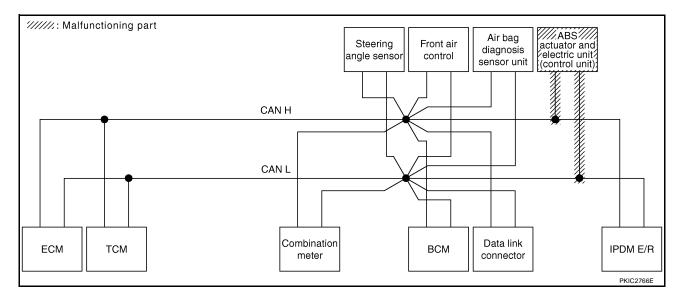


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Case 10

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

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTE	M coroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS
SELECT STOTE	W SCIECT	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
A/T	-	NG	UNKWN	UNKWN	_	UNKWN	-	-	UNKWN	1	CAN COMM CIRCUIT (U. 000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	-	_	UNKWN	ı	UNKWN	1	_	_
ABS	-	₩	UNKWN	UNKWN	UNK WN	_	_	UNK WN	-	1	CAN COMM CIRCUIT (U. 000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	1	CAN COMM CIRCUIT (U1000)	_



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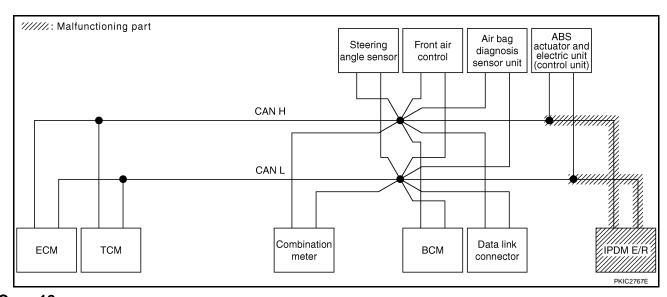
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Case 11
Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection".

					CAN DIA							
SELECT SYSTE	M screen	Initial	Transmit diagnosis	ГОМ	TOM	Rec METER	eive diagn		VDC/TCS	IDDM E/D	SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	TCM	/M&A	BCM/SEC	STRG	/ABS	IPDM E/R		
ENGINE	_	-	UNKWN	I	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	-	ı	UNKWN	ı	UNKWN	1	_	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	ı	-	UNKWN	-	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	1	UNKWN	-	_	1	CAN COMM CIRCUIT (U. 000)	-



Case 12
Check CAN communication circuit. Refer to <u>LAN-152</u>, "CAN Communication Circuit Inspection" .

					CAN DIA		RT MNTR					
SELECT SYSTE	M screen	Initial	Transmit				eive diagn	osis			SELF-DIAG	RESULTS
		diagnosis diagnosis ECM TCM METER M&A BCM/SEC STRG VDC/TCS /ABS								IPDM E/R		
ENGINE	_	-	UNKWN	-	UNKWN	UNK WN	UNK WN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN 000)	CAN COMM CIRCUIT (UN 001)
A/T	-	NG	UNKWN	UNK WN	-	UNK WN	-	-	UNKWN	-	CAN COMM CIRCUIT (U. 000)	_
ВСМ	No inditation	NG	UNKWN	UNKWN	ı	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	_	_
ABS	-	M.	UNKWN	UNKWN	UNKWN	-	-	UNKWN	_	-	CAN COMM CIRCUIT (U. 000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U. 000)	-

Revision: July 2007 LAN-51 2006 Armada

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Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-153}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTE	M coroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS
SELECT STSTE	IVI SCIECII	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SLLI -DIAC	ALSOLIS
ENGINE	_	-	UNKWN	_	UNK WN	UNKWN	UNKWN	-	UNK WN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	_	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_

Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-153}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

					CAN DIA							
SELECT SYSTE	M screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	eive diagn BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	1	-	-	-	-	UNKWN	ı	CAN COMM CIRCUIT (U. 00)	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	UNKWN	ı	_	_
ABS	-	NG	UNKWN	1	UNKWN	_	-	-	_	ı	CAN COMM CIRCUIT (U. 000)	-
IPDM E/R	No indication	ı	UNKWN	UNKWN	ı	-	UNKWN	ı	-	ı	CAN COMM CIRCUIT (U1000)	-

CAN SYSTEM (TYPE 2)		
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CAN SYSTEM (TYPE 2)	PFP:23710	
Component Parts and Harness Connector Location	UK\$004\$5	Α
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	UK\$004\$6	В
Refer to LAN-26, "Schematic" .		
Wiring Diagram — CAN —	UKS004S7	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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Check Sheet

NOTE:

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

					CAN DIA		RT MNTR eive diagn	ooio				
SELECT SYSTEM	l screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	
ENGINE	-	_	UNKWN	1	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRC (U1001)
/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
UTO DRIVE POS.	No indication	_	-	-	UNKWN	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
СМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
VAC	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	-	_
3S	_	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	-
			A SEL	ttach copy .ECT SYS	of TEM			Attach o	copy of SYSTEM			

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

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CHECK SHEET RESULTS (EXAMPLE)

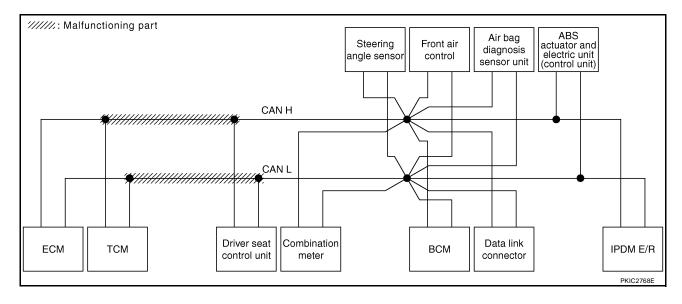
NOTE:

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

Case 1

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

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	A coroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAC	RESULTS
SEELOT STOTEN	il Sciecii	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SLLI -DIAC	TILOULIO
ENGINE	-	I	UNKWN	Ì	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCI (UN001)
A/T	-	NG	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	UNKWN	_	-	-	CAN COMM CIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	I	UNKWN	UNKWN	_	-	UNKWN	1	UNKWN	1	_	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	_



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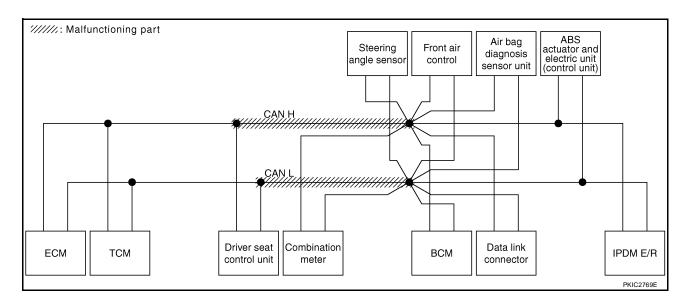
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Case 2

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

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	1 coroon	Initial	Transmit			Rec	eive diagn	osis			SELF-DIAG	DECLITO
SELECT STOTEN	i sciecii	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	ı	ı	UNKWN	ı	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNK WN	-	CAN COMM CIRCUIT (U 100)	_
AUTO DRIVE POS.	No indication	-	-	_	UNKWN	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U 100)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNK WN	-	-	UNKWN	-	UNKWN	-	_	_
ABS	-	NG	UNKWN	UNK WN	UNKWN	_	-	UNKWN	-	-	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	_	_	-	CAN COMM CIRCUIT (UN00)	-

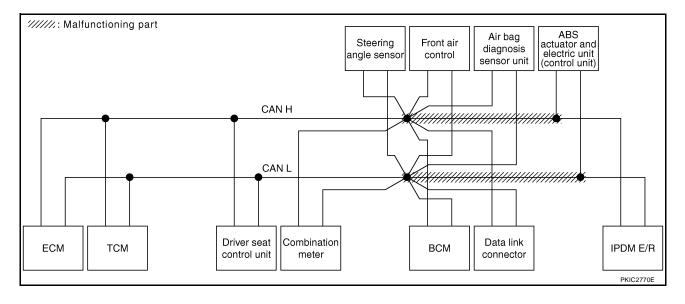


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Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-144</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	A coroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS
SELECT STSTEM	i screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	1	UNKWN	ı	UNKWN	UNKWN	UNKWN	I	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCI (UN001)
A/T	-	NG	UNKWN	UNKWN	ı	UNKWN	-	I	UNKWN	ı	CAN COMM CIRCUIT (U. 000)	1
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNK WN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	_
ABS	_	NG	UNKWN	UNK WN	UNKWN	_	_	UNK WN	_	-	CAN COMM CIRCUIT (U 200)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	1	-	-	CAN COMM CIRCUIT (UN00)	1



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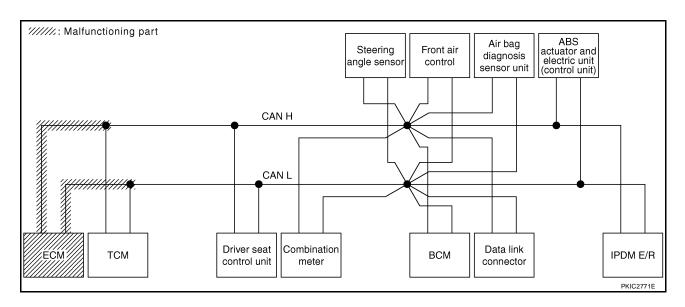
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Case 4 Check ECM circuit. Refer to LAN-145, "ECM Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	A screen	Initial	Transmit			Rec	eive diagn	osis			SELF-DIAG	RESULTS
OLLLOT GTGTEN	3010011	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	I	UNKWN	I	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCU (UN 001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (UN 000)	_
AUTO DRIVE POS.	No indication	-	-	_	UNKWN	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNK WN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNK WN	-	-	UNKWN	-	UNKWN	-	_	_
ABS	_	NG	UNKWN	UNK WN	UNKWN	_	-	UNKWN	-	-	CAN COMM CIRCUIT (UN 000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	_	_	_	CAN COMM CIRCUIT	_

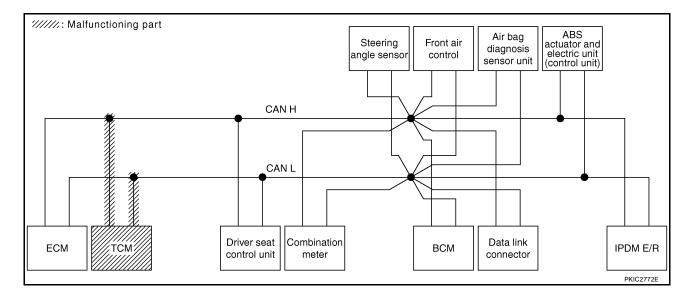


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Case 5
Check TCM circuit. Refer to <u>LAN-146</u>, "TCM Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	1 coroon	Initial	Tue 10 a 11 i i			Rec	eive diagn	osis			SELE DIAG	RESULTS
SELECT STSTEM	Screen	diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESULIS
ENGINE	1	1	UNKWN	Ì	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U. 000)	CAN COMM CIRC (UN001)
A/T	ı	NG	UNKWN	UNK.WN	_	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U. 000)	_
AUTO DRIVE POS.	No indication	_	-	-	nuk w u	UNKWN	UNKWN	_	-	-	CAN COMM CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	_	-	UNKWN	_	UNKWN	-	_	_
ABS	-	NG	UNKWN	UNKWN	nuk w u	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 100)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_



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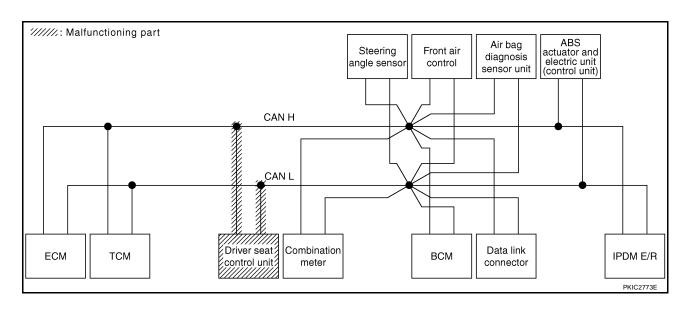
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Case 6

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

					CAN DIA	G SUPPO	RT MNTR							
SELECT SYSTEM	A coroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS		
OLLLOT STOTEN	1 3010011	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SLLI -DIAC	THEODEIG		
ENGINE	_	ı	UNKWN	ı	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT			
A/T	_	NG	UNKWN	UNKWN	1	UNKWN	1	ı	UNKWN	-	CAN COMM CIRCUIT (U1000)	_		
AUTO DRIVE POS.	No indication	-	_	1	UNKWN	UNKWN	UNKWN	-	_	-	CAN COMM CIRCUIT (UN000)	_		
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	ı	-	UNKWN	CAN COMM CIRCUIT (U1000)	_		
HVAC	No indication	-	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	-	-	_		
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	1	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_		
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_		

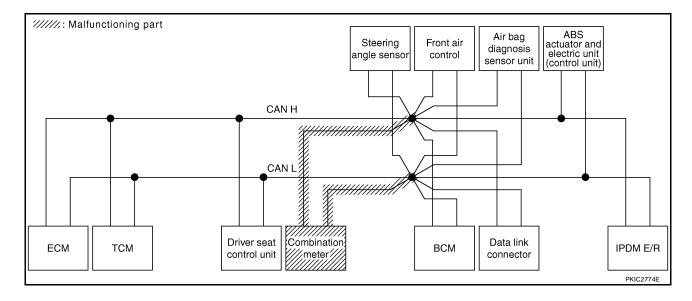


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Case 7
Check combination meter circuit. Refer to <u>LAN-147</u>, "Combination Meter Circuit Inspection".

					CAN DIA	G SUPPO	RT MNTR						
SELECT SYSTEM	A coroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS	
SELECT STOTEK	A SCIECII	diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SLLI -DIAC	J NESOLIS	
ENGINE	_	ı	UNKWN	1	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT CAN COMM CI (U1000) (UN01) CAN COMM CIRCUIT		
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	-	_	UNKWN	-	CAN COMM CIRCUIT (UN00)	_	
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT (U. 500)	_	
BCM	No indication	NG	UNKWN	UNKWN	-	NNKWN	-	-	ı	UNKWN	CAN COMM CIRCUIT (U1000)	-	
HVAC	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	_	_	
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_	



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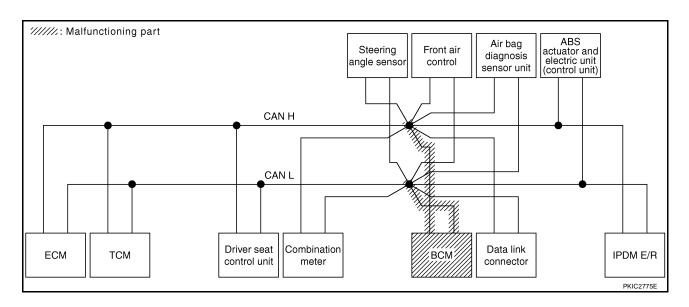
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Case 8 Check BCM circuit. Refer to <u>LAN-148</u>, "BCM Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	1 scroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS
OLLLOT GTOTEN	1 SCICCII	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	ı	UNKWN	I	UNKWN	UNKWN	UNKWN	I	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN001)
A/T	1	NG	UNKWN	UNKWN	1	UNKWN	_	ı	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	1	UNKWN	UNKWN	UNKWN	-	_	ı	CAN COMM CIRCUIT (U. 300)	_
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	-	ı	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	_	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	-



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Case 9
Check data link connector circuit. Refer to <u>LAN-148</u>, "<u>Data Link Connector Circuit Inspection</u>" .

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	1 coroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS
SELECT STSTEM	Screen	diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	A NESOLIS
ENGINE	-	-	UNKWN	1	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT CAN COMM ((U1000) (U100) CAN COMM CIRCUIT	
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	I	UNKWN	ı	(U1000)	_
AUTO DRIVE POS.	No indication	-	_	ı	UNKWN	UNKWN	UNKWN	ı	-	ı	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	_	_	UNKWN	1	UNKWN	ı	_	_
ABS	ı	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	ı	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_

/////: Malfunctioning part ABS actuator and electric unit (control unit) Air bag Steering Front air diagnosis angle sensor control sensor unit CAN H CAN L Data link connector Driver seat Combination ECM TCM всм IPDM E/R control unit meter PKIC2776E

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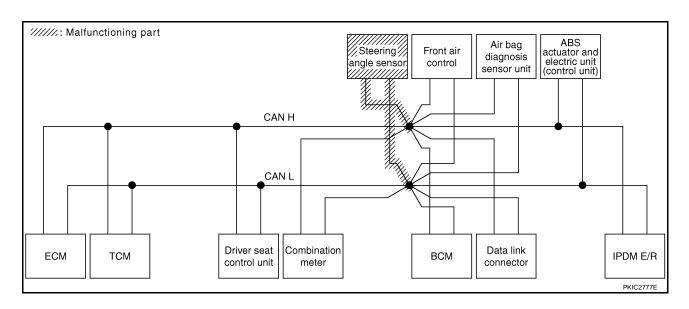
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Case 10

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

					CAN DIA	G SUPPO	RT MNTR						
SELECT SYSTEM	A coroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS	
OLLLOT GTOTEN	i screen	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TILOULIO	
ENGINE	-	-	UNKWN	ı	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT		
A/T	1	NG	UNKWN	UNKWN	1	UNKWN	1	ı	UNKWN	ı	CAN COMM CIRCUIT (U1000)	_	
AUTO DRIVE POS.	No indication	-	_	1	UNKWN	UNKWN	UNKWN	-	_	1	CAN COMM CIRCUIT (U1000)	_	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	ı	-	UNKWN	CAN COMM CIRCUIT (U1000)	_	
HVAC	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	UNKWN	1	_	_	
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	-	UNK WN	_	ı	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	-	_	1	CAN COMM CIRCUIT (U1000)	_	

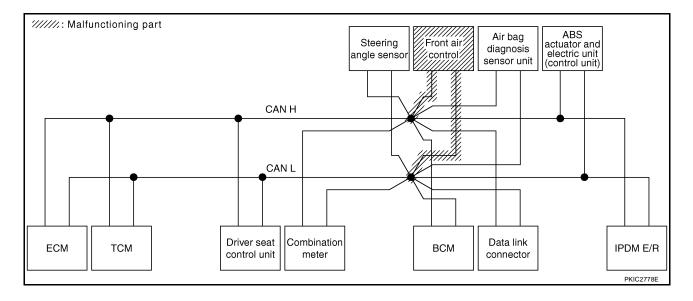


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Case 11
Check front air control circuit. Refer to <u>LAN-149</u>, "Front Air Control Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	1 coroon	latital	Tue 10 a 11 i i			Rec	eive diagn	osis			SELE DIAG	RESULTS
SELECT STSTEW	Screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESULIS
ENGINE	1	1	UNKWN	1	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRC (U1001)
A/T	ı	NG	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	ı	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	-	_	UNKWN	UNKWN	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	-	_	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_



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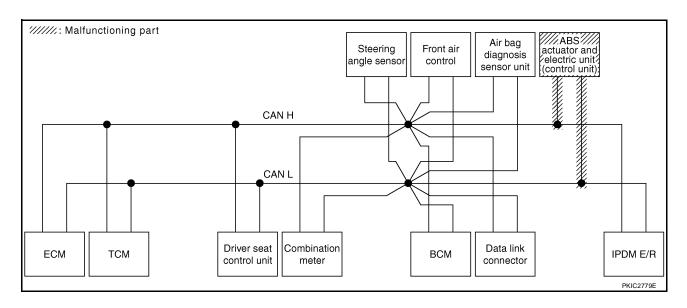
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Case 12

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

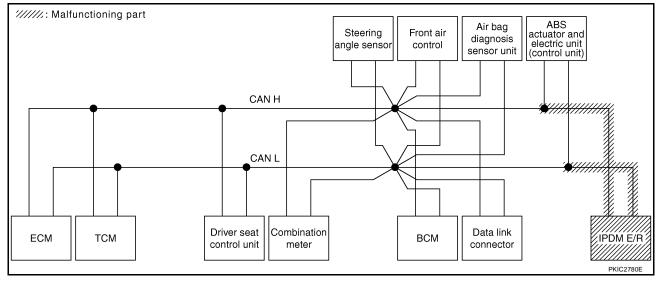
					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	A coroon	Initial	Transmit			Rec	eive diagn	osis			SELF-DIAG	DESILITS
SELECT STOTEN	i sciecii	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SLLI -DIAC	THEODEIS
ENGINE	1	ì	UNKWN	I	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN001)
A/T	-	NG	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	ı	CAN COMM CIRCUIT (U. 000)	_
AUTO DRIVE POS.	No indication	-	-	_	UNKWN	UNKWN	UNKWN	-	-	1	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNK WN	ı	_	_
ABS	_	¥	UNK W N	UNK WN	UNKWN	_	_	UNKWN	-	-	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_



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Case 13
Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection".

					CAN DIA	G SUPPO	RT MNTR						
SELECT SYSTEM	1 coroon	latital	Tue 10 a 11 i i			Rec	eive diagn	osis			SELE DIAG	RESULTS	
SELECT STSTEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	INESULIS	
ENGINE	1	1	UNKWN	Ì	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT CAN COMMCIF (U1000) (U1001) CAN COMM CIRCUIT _		
A/T	ı	NG	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_	
AUTO DRIVE POS.	No indication	-	1	-	UNKWN	UNKWN	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_	
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	-	-	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_	
HVAC	No indication	-	UNKWN	UNKWN	_	-	UNKWN	_	UNKWN	-	_	_	
ABS	ı	NG	UNKWN	UNKWN	UNKWN	-	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (UN00)	_	



Case 14
Check CAN communication circuit. Refer to <u>LAN-152</u>, "CAN Communication Circuit Inspection".

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	A screen	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS
OLLLOT OTOTEK	1 3010011	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	1	UNKWN	Ì	UNKWN	UNKWN	UNKWN	I	UNKWN	UNK WN	CAN COMM CIRCUIT (U. 000)	CAN COMM CIRCUI (UN001)
A/T	-	NG	UNKWN	UNKWN	ı	UNKWN	-	I	UNKWN	ı	CAN COMM CIRCUIT (U. 000)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	UNKWN	UNKWN	-	ı	1	CAN COMM CIRCUIT (U.000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	-	I	ı	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	UNKWN	-	_	_
ABS	-	₩	UNKWN	UNK WN	UNKWN	_	-	UNKWN	1	1	CAN COMM CIRCUIT (U. 000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	_

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Case 15

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-153}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	A coroon	Initial	Transmit			Rec	eive diagn	osis			SELE-DIAG	RESULTS
OLLLOT STOTEN	1 3010011	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R	SLLI -DIAC	THEODEIG
ENGINE	_	ı	UNKWN	ı	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN 500)	CAN COMM CIRCL (UN001)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	ı	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	_	1	UNKWN	UNKWN	UNKWN	_	_	1	CAN COMM CIRCUIT (U. 300)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	UNK WN	1	_	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	-	ı	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	_	1	CAN COMM CIRCUIT (U1000)	_

Case 16

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-153}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	A screen	Initial	Transmit			Red	eive diagn	osis			SELF-DIAG	BESUITS
OLLEGI GIGIEN	n sorcen	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	-	-	_	-	ı	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	_	_	-
ABS	_	NG	UNKWN	ı	UNKWN	_	_	ı	_	ı	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	-
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[CAN] CAN SYSTEM (TYPE 3) Component Parts and Harness Connector Location Refer to LAN-25, "Component Parts and Harness Connector Location" Schematic Refer to LAN-26, "Schematic" Wiring Diagram — CAN —

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

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Check Sheet

NOTE:

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

					C	AN DIAG	SUPPO	RT MN	ΓR					
SELECT SYSTEM	1 coreen	Initial	Transmit				Rece	ive diag	nosis				SELE-DIAG	RESULTS
OLLLOT STOTEW	1 3010011		diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELI-BIAC	TILOULIO
ENGINE	ı	ı	UNKWN	1	UNKWN	UNKWN	_	UNKWN	_	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U1001)
A/T	1	NG	UNKWN	UNKWN	_	UNKWN	_	ı	_	1	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	_	_	UNKWN	UNKWN	_	UNKWN	_	ı	-	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	ı	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	ı	_	ı	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	1	UNKWN	UNKWN	1	ı	UNKWN	UNKWN	-	ı	UNKWN	-	_	1
ABS	1	NG	UNKWN	UNKWN	UNKWN	ı	-	1	UNKWN	1	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	-	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

Symptoms :			

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

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

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

PKIC2943E

Revision: July 2007 LAN-71 2006 Armada

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

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

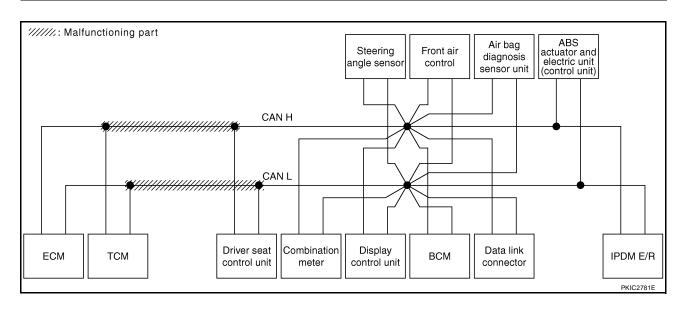
NOTE:

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

Case 1

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

					C/	AN DIAG	SUPPO	DRT MN1	ΓR					
SELECT SYSTEM	l coroon	Initial	Transmit				Rece	eive diag	nosis				SELF-DIAG	RESULTS
OLLLOT STOTEN	13016611	diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODEIG
ENGINE	ı	_	UNKWN	ı	UNKWN	UNKWN	_	UNKWN	_	_	UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCI (UN01)
A/T	ı	NG	UNKWN	UNKWN	ı	UNKWN	_	_	_	_	UNKWN	-	CAN COMM CIRCUIT (UN 000)	_
AUTO DRIVE POS.	No indication	_	-	ı	UNK WN	UNKWN	_	UNKWN	_	_	ı	-	CAN COMM CIRCUIT (UN000)	_
Display control unit	ı	NG	UNKWN	UNK WN	ı	UNKWN	_	UNKWN	_	UNKWN	ı	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNK WN	ı	UNKWN	_	_	_	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNK WN	1	İ	UNKWN	UNKWN	-	-	UNKWN	1	_	_
ABS	_	NG	UNKWN	UNK WN	UNK WN	-	_	-	UNKWN	_	_	_	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT	_



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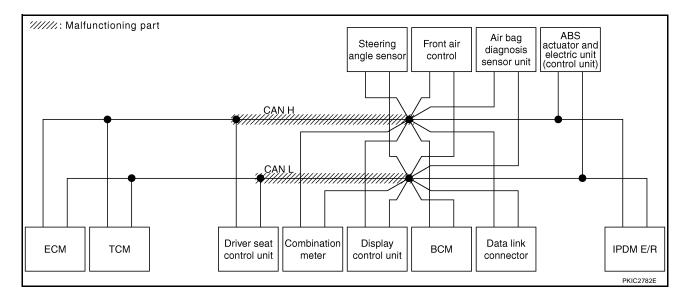
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Case 2

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

					C/	AN DIAG	SUPPO	ORT MN	ΓR					
SELECT SYSTEM	l screen	Initial	Transmit				Rece	eive diag	nosis				SELF-DIAG	RESULTS
OLLEGI GIGILIV		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOULIU
ENGINE	_	-	UNKWN	ı	UNKWN	UNKWN	-	UNKWN	_	-	UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
A/T	-	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNK WN	-	CAN COMM CIRCUIT (UN000)	1
AUTO DRIVE POS.	No indication	ı	ı	I	UNKWN	UNKWN	-	UNKWN	_	-	ı	_	CAN COMM CIRCUIT (UN000)	ı
Display control unit	-	NG	UNKWN	UNK WN	_	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	_	1
ВСМ	No indication	NG	UNKWN	UNK WN	_	UNKWN	-	_	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNK WN	-	-	UNKWN	UNKWN	_	-	UNKWN	_	_	I
ABS	_	NG	UNKWN	UNK WN	UNK ₩N	_	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNK WN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (UN000)	_
														PKIC3275E



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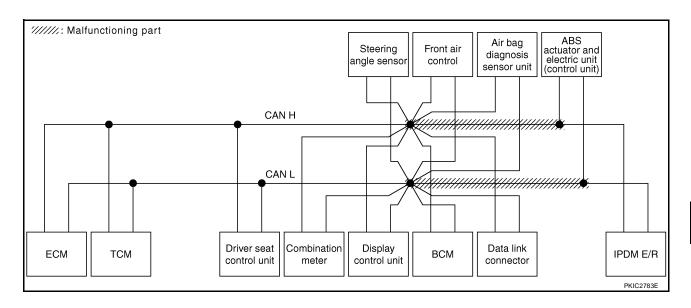
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Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-144</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

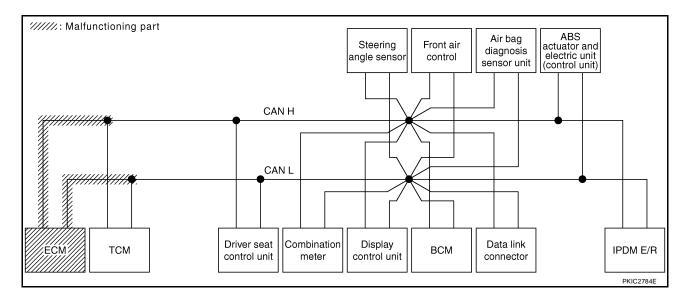
					C	an diag	SUPPO	RT MN1	ΓR					
SELECT SYSTEM	l coroon	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	BESUITS
OLLLOT STOTEN	1 3010011	diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	JELI-DIAC	THEODEIG
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	_	UNKWN	-	_	UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN 01)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	-	UNK WN	_	CAN COMM CIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	-	1	1	UNKWN	UNKWN	-	UNKWN	-	-	1	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	-	UNK WN	_	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	-	-	UNK W N	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	_	UNK WN	-	_	_
ABS	_	NG	UNKWN	UNK WN	UNK WN	_	_	_	NKWN	_	_	_	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT	_



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Case 4
Check ECM circuit. Refer to <u>LAN-145</u>, "ECM Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN1	ΓR					
OF LEGT OVOTEN	1							ive diag					CELE DIAG	DECLUTO
SELECT SYSTEM	i screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNK WN	ı	UNK W N	UNKWN	-	UNK WN	_	-	UNK WN	UNK\\\	CAN COMM CIRCUIT (UN000)	CAN COMM CIRCUIT (UN 01)
A/T	-	NG	UNKWN	UNK ₩N	_	UNKWN	-	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U 200)	_
AUTO DRIVE POS.	No indication	-	ı	ı	UNKWN	UNKWN	-	UNKWN	-	-	_	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNK WN	-	UNKWN	-	UNKWN	-	UNKWN	_	UNKWN	-	-
ВСМ	No indication	NG	UNKWN	UNK WN	_	UNKWN	-	-	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNK WN	ı	-	UNKWN	UNKWN	-	-	UNKWN	-	_	-
ABS	_	NG	UNKWN	UNK WN	UNKWN	_	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (UN000)	_
IPDM E/R	No indication	_	UNKWN	UNK WN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (UN00)	_



CAN SYSTEM (TYPE 3)

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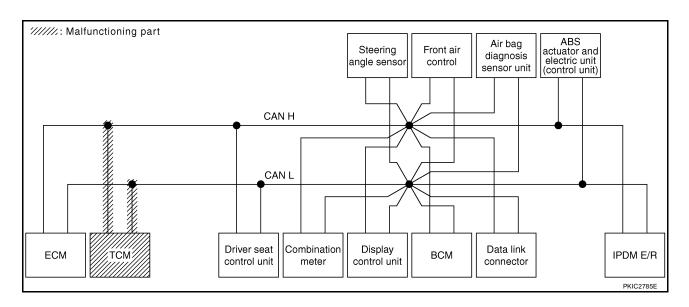
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Case 5 Check TCM circuit. Refer to LAN-146, "TCM Circuit Inspection".

					C/	AN DIAG	SUPPO	RT MN1	ΓR					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	RESULTS
OLLLOT GTGTLW		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOGLIG
ENGINE	ı	1	UNKWN	1	UNK WN	UNKWN	_	UNKWN	_	1	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCU (UN001)
A/T	-	NG	UNKWN	UNK WN	ı	UNKWN	_	_	_	1	UNK WN	-	CAN COMM CIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	-	ı	ı	UNKWN	UNKWN	_	UNKWN	-	-	ı	_	CAN COMM CIRCUIT (UN000)	_
Display control unit	1	NG	UNKWN	UNKWN	ı	UNKWN	_	UNKWN	-	UNKWN	ı	UNKWN	-	_
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	-	-	-	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	1	UNKWN	UNKWN	1	ı	UNKWN	UNKWN	-	1	UNKWN	1	_	_
ABS	_	NG	UNKWN	UNKWN	UNK WN	_	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

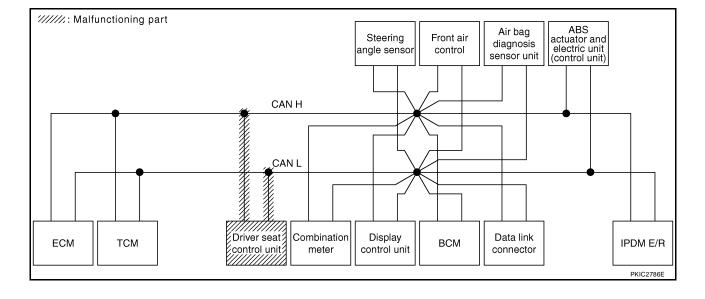


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Case 6
Check driver seat control unit circuit. Refer to <u>LAN-146</u>, "<u>Driver Seat Control Unit Circuit Inspection</u>".

					C	AN DIAG	SUPPO	RT MN1	R					
SELECT SYSTEM	Lecroon	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	BESUITS
OLLLO1 STOTEN			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	ı	UNKWN	1	UNKWN	UNKWN	1	UNKWN	1	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	ı	_	ı	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	1	1	1	UNKWN	UNKWN	1	UNKWN	1	_	-	-	CAN COMM CIRCUIT (UN)00)	ı
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	ı	_	ı	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	1
HVAC	No indication	1	UNKWN	UNKWN	1	1	UNKWN	UNKWN	1	_	UNKWN	-	_	ı
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	ı	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	-	UNKWN	-	_	_	_	CAN COMM CIRCUIT (U1000)	_



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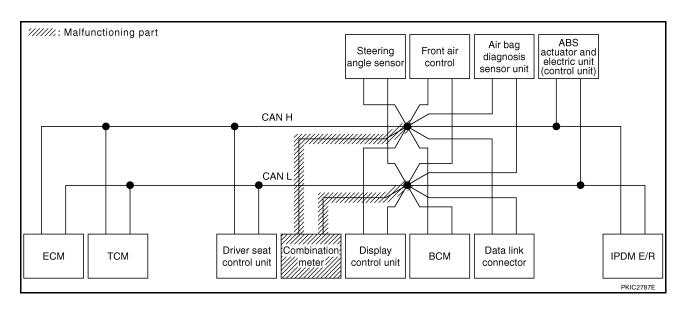
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Case 7
Check combination meter circuit. Refer to <u>LAN-147</u>, "Combination Meter Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN1	ΓR					
SELECT SYSTEM	l screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	RESULTS
OLLEGI GIGILIV		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	1	UNKWN	ı	UNKWN	UNKWN	_	UNKWN	_	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 001)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	-	_	-	UNKWN	-	CAN COMM CIRCUIT (UN000)	-
AUTO DRIVE POS.	No indication	1	1	1	UNKWN	UNKWN	-	UNKWN	-	-	1	-	CAN COMM CIRCUIT (UN)00)	İ
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	_	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	-	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	I	UNKWN	UNKWN	ı	-	UNKWN	UNKWN	-	-	UNKWN	-	_	ı
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

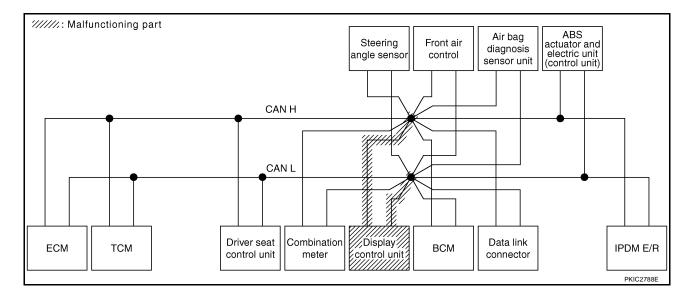


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Case 8
Check display control unit circuit. Refer to <u>LAN-147</u>, "<u>Display Control Unit Circuit Inspection</u>" .

					C	AN DIAG	SUPPO	ORT MN	ΓR					
SELECT SYSTEM	l screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	BESUITS
OLLLO1 STOTEN			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELI-BIAC	TILOULIO
ENGINE	-	ı	UNKWN	1	UNKWN	UNKWN	_	UNKWN	-	1	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	I	I	I	UNKWN	UNKWN	-	UNKWN	-	ı	-	-	CAN COMM CIRCUIT (U1000)	ı
Display control unit	-	NG	UNK WN	UNK WN	_	UNKWN	-	UNK WN	-	UNK W N	-	UNK ₩N	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	_	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	I	UNKWN	UNKWN	I	-	UNKWN	UNKWN	-	ı	UNKWN	-	_	ı
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



CAN SYSTEM (TYPE 3)

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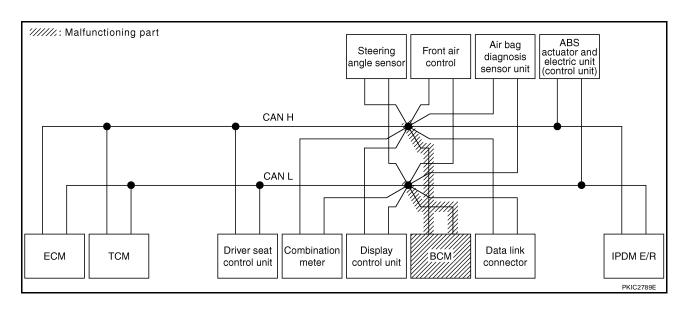
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Case 9 Check BCM circuit. Refer to <u>LAN-148</u>, "BCM Circuit Inspection" .

					C/	AN DIAG	SUPPO	PRT MNT	ΓR					
SELECT SYSTEM	l screen	Initial	Transmit				Rece	ive diagi	nosis				SELF-DIAG	RESULTS
OLLLOT GTOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	1	UNKWN	1	UNKWN	UNKWN	ı	UNK WN	_	1	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN001)
A/T	ı	NG	UNKWN	UNKWN	ı	UNKWN	-	ı	_	ı	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	1	1	1	UNKWN	UNKWN	ı	UNK WN	_	1	1	_	CAN COMM CIRCUIT (UN000)	_
Display control unit	1	NG	UNKWN	UNKWN	ı	UNKWN	_	UNK ₩N	_	UNKWN	1	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	ı	1	_	ı	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	1	UNKWN	UNKWN	1	ı	UNKWN	UNK WN	-	1	UNKWN	1	_	_
ABS	1	NG	UNKWN	UNKWN	UNKWN	_	_	ı	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	UNK WN	_	_	_	_	CAN COMM CIRCUIT (UN00)	_



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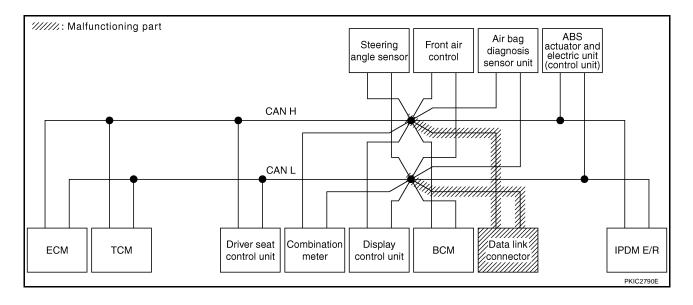
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Case 10
Check data link connector circuit. Refer to <u>LAN-148</u>, "<u>Data Link Connector Circuit Inspection</u>" .

					C	AN DIAG	SUPPO	RT MNT	ΓR					
SELECT SYSTEM	screen	Initial	Transmit				Rece	ive diag	nosis				SELE-DIAG	RESULTS
OLLLOT GTGTLW		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	ı	UNKWN	1	UNKWN	UNKWN	_	UNKWN	_	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	ı	UNKWN	_	I	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	ı
AUTO DRIVE POS.	No indication	1	1	1	UNKWN	UNKWN	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	ı
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	ı	_	-	ı	UNKWN	CAN COMM CIRCUIT (U1000)	ı
HVAC	No indication	1	UNKWN	UNKWN	I	İ	UNKWN	UNKWN	-	-	UNKWN	1	_	1
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	ı	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



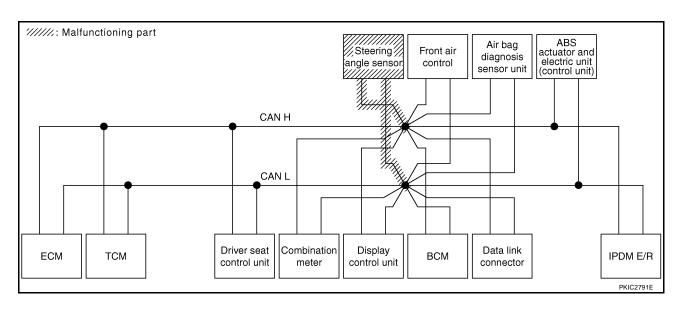
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Case 11 Check steering angle sensor circuit. Refer to <u>LAN-149</u>, "Steering Angle Sensor Circuit Inspection" .

					C/	AN DIAG	SUPPO	RT MN1	ΓR					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	BESULTS
OLLEGI GIGILIV		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	ı	UNKWN	ı	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U1001)
A/T	-	NG	UNKWN	UNKWN	ı	UNKWN	_	-	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	-	_	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	ı
HVAC	No indication	1	UNKWN	UNKWN	1	ı	UNKWN	UNKWN	_	-	UNKWN	_	_	ı
ABS	ı	NG	UNKWN	UNKWN	UNKWN	ı	_	_	UNK WN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	1	UNKWN	UNKWN	1	_	-	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
													·	PKIC3284E

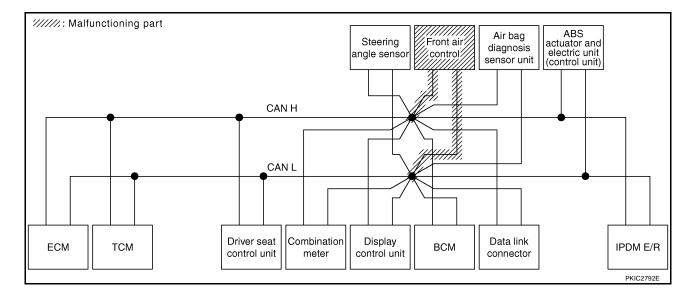


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Case 12
Check front air control circuit. Refer to <u>LAN-149</u>, "Front Air Control Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN1	ΓR					
SELECT SYSTEM	l coroon	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	BESUITS
OLLLO1 STOTEN			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	1	UNKWN	1	UNKWN	UNKWN	1	UNKWN	-	1	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	-	_	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	1	1	1	UNKWN	UNKWN	1	UNKWN	-	1	-	-	CAN COMM CIRCUIT (U1000)	ı
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	ı	UNKWN	_	UNK WN	_	UNKWN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	ı	_	_	ı	-	UNKWN	CAN COMM CIRCUIT (U1000)	1
HVAC	No indication	ı	UNKWN	UNKWN	I	ı	UNKWN	UNKWN	-	ı	UNKWN	-	_	ı
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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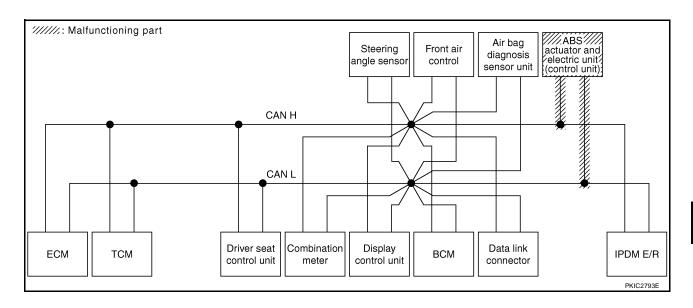
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Case 13

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

					C	AN DIAG	SUPPO	PRT MN1	ΓR					
SELECT SYSTEM	l coroon	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	BESHITS
OLLLOT GTGTLW	1 3010011	diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOGLIG
ENGINE	-	-	UNKWN	1	UNKWN	UNKWN	_	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN001)
A/T	ı	NG	UNKWN	UNKWN	-	UNKWN	_	ı	ı	-	UNKWN	_	CAN COMM CIRCUIT (UN 000)	-
AUTO DRIVE POS.	No indication	_	1	1	UNKWN	UNKWN	_	UNKWN	1	_	ı	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	ı	ı	-	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	UNKWN	_	_	-
ABS	_	₩	UNK WN	UNK WN	UNK WN	-	_	-	UNK WN	_	_	_	CAN COMM CIRCUIT (UN000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	_



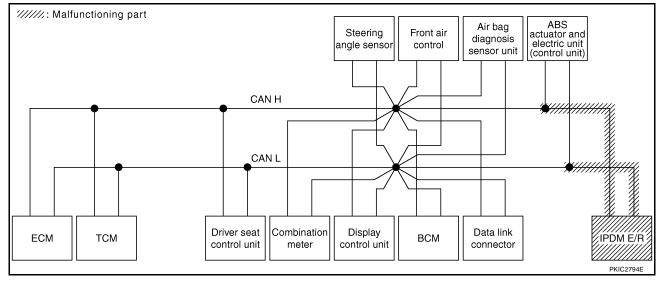
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Revision: July 2007 LAN-85 2006 Armada

Case 14
Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MN	ΓR					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	BESUITS
OLLEGI GIGILIA		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI BINC	TILOULIU
ENGINE	ı	1	UNKWN	ı	UNKWN	UNKWN	ı	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	ı	NG	UNKWN	UNKWN	ı	UNKWN	ı	-	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	ı
AUTO DRIVE POS.	No indication	_	ı	_	UNKWN	UNKWN	ı	UNKWN	_	-	ı	_	CAN COMM CIRCUIT (U1000)	ı
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNK WN	_	_
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	ı	ı	_	_	ı	UNI W N	CAN COMM CIRCUIT (U1000)	ı
HVAC	No indication	_	UNKWN	UNKWN	1	1	UNKWN	UNKWN	_	-	UNKWN	_	_	I
ABS	ı	NG	UNKWN	UNKWN	UNKWN	ı	ı	ı	UNKWN	_	ı	_	CAN COMM CIRCUIT (U1000)	ı
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	1	UNKWN	_	_	_	_	CAN COMM CIRCUIT (UN 000)	_
														PKIC3287E



Case 15
Check CAN communication circuit. Refer to <u>LAN-152</u>, "CAN Communication Circuit Inspection".

					C	AN DIAG	SUPPO	ORT MN	ΓR					
SELECT SYSTEM	1 screen	Initial	Transmit				Rece	ive diag	nosis				SELF-DIAG	RESULTS
OLLEGI GIGIEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	OLLI BING	THEODEIG
ENGINE	_	-	UNKWN	ı	Π ΝΚ ΜΝ	UNKWN	-	UNK WN	_	-	UNK WN	UNK WN	CAN COMM CIRCUIT (UN000)	CAN COMM CIRCUIT (UN001)
A/T	_	NG	UNKWN	UNK WN	_	UNKWN	_	_	_	-	UNK WN	1	CAN COMM CIRCUIT (U. 000)	_
AUTO DRIVE POS.	No indication	ı	I	I	UNKWN	UNKWN	-	UNKWN	_	-	ı	ı	CAN COMM CIRCUIT (UN000)	-
Display control unit	_	NG	UNK WN	UNK WN	_	UNKWN	_	UNK WN	_	UNK WN	-	UNK W N	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	ı	_	-	ı	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	ı	UNKWN	UNKWN	-	-	UNKWN	UNKWN	_	-	UNKWN	ı	_	-
ABS	_	V	UNK WN	UNK WN	UNK ₩N	-	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (UN000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	_	_		_	CAN COMM CIRCUIT (UN000)	_
														PKIC3288E

CAN SYSTEM (TYPE 3)

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Case 16

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-153}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

					C	AN DIAG	SUPPO	RT MN1	ΓR					
SELECT SYSTEM	l coroon	Initial	Transmit				Rece	ive diag	nosis				SELE-DIAG	RESULTS
OLLLOT STOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELI-BIAC	TILOULIO
ENGINE	_	-	UNKWN	-	UNK W N	UNKWN	_	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN000)	CAN COMM CIRCU (UN01)
A/T	ı	NG	UNKWN	UNKWN	-	UNKWN	ı	ı	-	-	UNKWN	ı	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	-	1	UNKWN	UNKWN	ı	UNKWN	_	_	_	1	CAN COMM CIRCUIT (UN 300)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	ı	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	UNK WN	-	_	_
ABS	ı	NG	UNKWN	UNKWN	UNKWN	1	_	ı	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	-	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_

Case 17

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-153}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

					C	AN DIAG	SUPPO	DRT MNT	ΓR					
SELECT SYSTEM	Logroon	1-141-1	T				Rece	eive diagi	nosis				SELE DIAC	RESULTS
SELECT STSTEM		Initial diagnosis	Transmit diagnosis	ECM	ТСМ	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	a RESULIS
ENGINE	1	1	UNKWN	1	UNKWN	UNKWN	_	UNKWN	-	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	_	ı	_	_	_	_	_	UNKWN	-	CAN COMM CIRCUIT (UN000)	_
AUTO DRIVE POS.	No indication	1	-	ı	UNKWN	UNKWN	_	UNKWN	_	_	1	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	-	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	_	-	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	1	UNKWN	UNKWN	1	_	UNKWN	UNKWN	-	-	UNKWN	-	_	_
ABS	1	NG	UNKWN	-	UNKWN	_	_	_	_	_	_	_	CAN COMM CIRCUIT (UN000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

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CAN SYSTEM (TYPE 4)

[CAN] CAN SYSTEM (TYPE 4) Component Parts and Harness Connector Location Refer to LAN-25, "Component Parts and Harness Connector Location" Schematic Refer to LAN-26, "Schematic" Wiring Diagram — CAN —

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

CAN SYSTEM (TYPE 4)

[CAN]

Check Sheet UKS004SG

NOTE:

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

Check sheet ta	ble				CAN	DIAG SU	IPPORT N	ANITO				1	
OFLECT OVOTEM		1 22 1	-		CAN	DIAG 30	Receive	diagnosis	<u> </u>			CELE DIAC	DECLUTO
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC		AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	
NGINE	1	-	UNKWN	-	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT ((U1000)	CAN COMM CIRCUI (U1001)
/T	-	NG	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	_	— CAN COMM CIRCUIT	
	No indication	_	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	UNKWN	_	(U1000) CAN COMM CIRCUIT	_
BS	- No	NG	UNKWN	UNKWN	UNKWN	-	_	UNKWN	UNKWN	-	-	(U1000) CAN COMM CIRCUIT	_
PDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	_	_	-	(U1000)	
			SI	Attach co	opy of YSTEM			SE	Attach cop	oy of 'STEM			

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

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CHECK SHEET RESULTS (EXAMPLE)

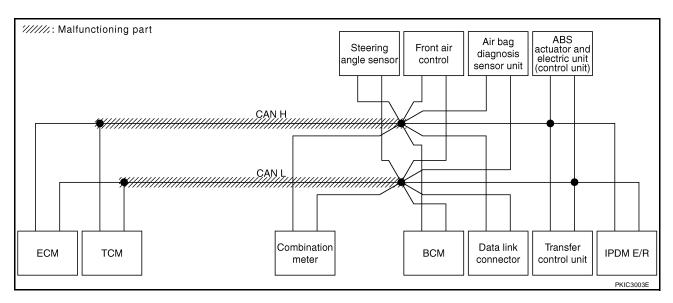
NOTE:

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

Case 1

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

					CAN	DIAG SU	PPORT N	/NTR					
SELECT SYSTEM	l ecroon	Initial	Transmit				Receive (diagnosis	1			SELE-DIAG	RESULTS
OLLLO1 GTOTEN	1 3010011	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI -BIAC	TILOULIU
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNK ₩N	-	UNKWN	UNK WN	UNK W N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	ı	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U. 00)	_
ВСМ	No indication	NG	UNKWN	UNK WN	_	UNKWN	_	-	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	I	ı	UNKWN	ı	_	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	1	UNKWN	UNK WN	UNKWN	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (UN 000)	_
ABS	_	NG	UNKWN	UNK WN	UNK WN	_	_	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U. 300)	_
IPDM E/R	No indication	-	UNKWN	UNK WN	_	-	UNKWN	-	_	-	_	CAN COMM CIRCUIT (UN00)	_



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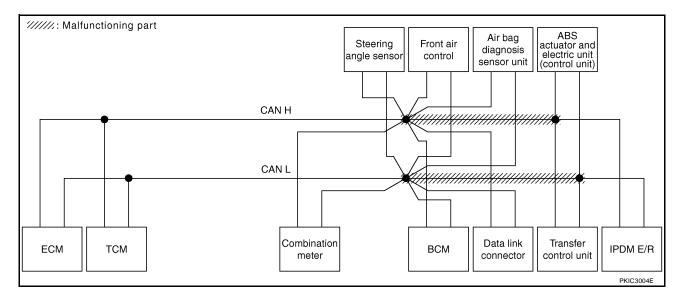
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-144</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN	DIAG SU	PPORT N	/NTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive	diagnosis				SELE-DIAG	RESULTS
01110101011		diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNK WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	-	ı	-	ı	UNK WN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	ı	I	UNKWN	ı	1	UNKWN	-	_	_
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	ı	_	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U. 300)	_
ABS	_	NG	UNKWN	UNK WN	UNK WN	-	_	UNK WN	UNKWN	-	_	CAN COMM CIRCUIT (U. 000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	ı	-	UNKWN	-	-	ı	-	CAN COMM CIRCUIT (U 100)	-



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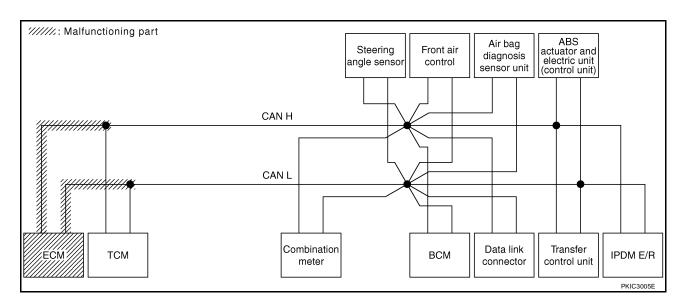
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Case 3
Check ECM circuit. Refer to <u>LAN-145</u>, "ECM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	/NTR					
SELECT SYSTEM	Screen	Initial	Transmit				Receive	diagnosis	i			SELF-DIAG	BESULTS
OLLEGI GIGILII		diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI BING	
ENGINE	-	ı	UNK WN	ı	UNK WN	UNK WN	UNK WN	-	UNK W N	UNKWN	UNK W N	CAN COMM CIRCUIT (U. 000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNK W N	-	UNKWN	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
всм	No indication	NG	UNKWN	UNK WN	_	UNKWN	_	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNK W N	ı	-	UNKWN	1	-	UNKWN	-	_	-
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNK WN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U 100)	_
ABS	_	NG	UNKWN	UNK WN	UNKWN	-	_	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U. 000)	_
IPDM E/R	No indication	-	UNKWN	UNK WN	-	-	UNKWN	-	-	_	_	CAN COMM CIRCUIT (UN 00)	_



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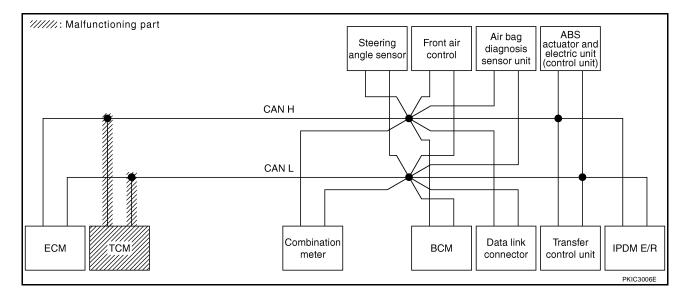
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Case 4
Check TCM circuit. Refer to <u>LAN-146</u>, "TCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive	diagnosis				SELF-DIAG	RESULTS
OLLEGI GIGILIA	1 3010011	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	I	1	UNKWN	ı	UNK WN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN 000)	CAN COMM CIRCU (UN001)
A/T	-	NG	UNKWN	UNK WN	-	UNK WN	-	-	UNK WN	UNK WN	_	CAN COMM CIRCUIT (UN 000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	_	UNKWN	_	_	-
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNK WN	ı	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (UN 000)	ı
ABS	ı	NG	UNKWN	UNKWN	UNK WN	ı	-	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (UN 000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



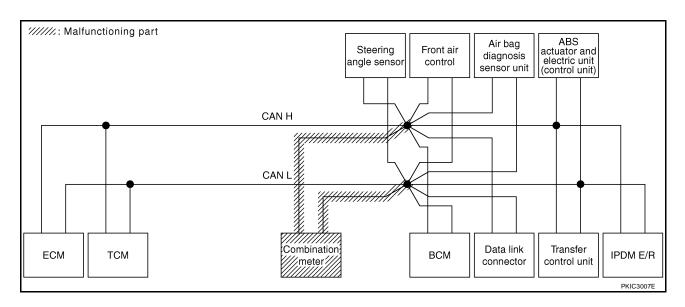
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Case 5
Check combination meter circuit. Refer to <u>LAN-147</u>, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	/NTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive	diagnosis				SELE-DIAG	RESULTS
OLLLOT GTOTEN	1 3010011	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOGLIG
ENGINE	-	-	UNKWN	_	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	1	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 200)	_
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	1	ı	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	ı	1	UNKWN	ı	_	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	_	1	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	1	NG	UNKWN	UNKWN	UNKWN	_	ı	UNKWN	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	_	1	_	CAN COMM CIRCUIT (U1000)	_

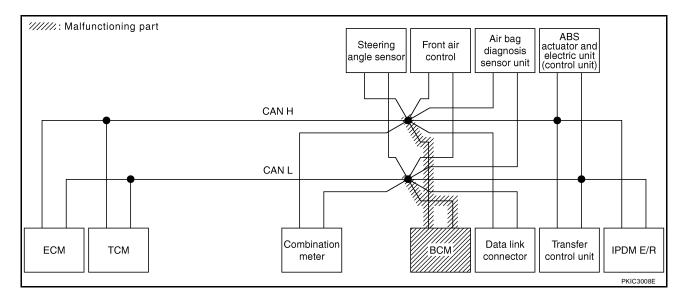


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Case 6
Check BCM circuit. Refer to <u>LAN-148</u>, "BCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l screen	Initial	Transmit				Receive of	diagnosis				SELE-DIAG	RESULTS
OLLEGI GIGILII	1 001 0011	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		. 11200210
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNK W N	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	-	_	UNK W N	-	_	UNKWN	1	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	_	UNKWN	-	UNKWN	ı	CAN COMM CIRCUIT (U1000)	_
ABS	1	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKWN	ı	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNK W N	-	-	ı	1	CAN COMM CIRCUIT (U. 000)	_



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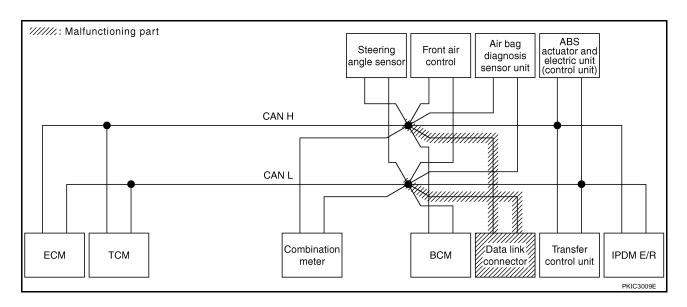
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Case 7
Check data link connector circuit. Refer to <u>LAN-148</u>, "<u>Data Link Connector Circuit Inspection</u>" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l screen	Initial	Transmit				Receive of	diagnosis				SELE-DIAG	RESULTS
OLLLOT GTGTLN	i dorcen	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOGLIG
ENGINE	_	ı	UNKWN	ı	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	ı	UNKWN	-	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	ı	UNKWN	UNKWN	ı	1	UNKWN	_	_	UNKWN	-	_	ı
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	1	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	ı
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_

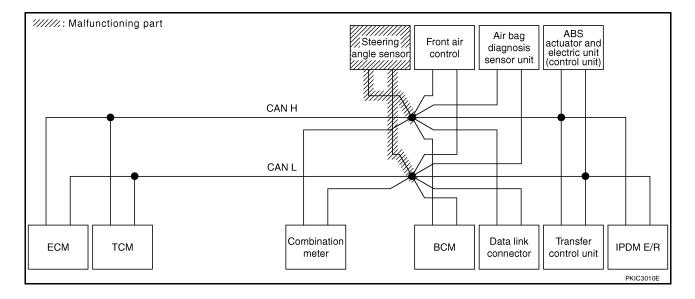


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Case 8 Check steering angle sensor circuit. Refer to <u>LAN-149</u>, "Steering Angle Sensor Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l screen	Initial	Transmit				Receive of	diagnosis				SELE-DIAG	RESULTS
OLLLOT GTOTEN	1 301CCII	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOULIO
ENGINE	I	I	UNKWN	I	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	ı	NG	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	ı	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-		UNK WN	-	UNKWN	-	CAN COMM CIRCUIT (UN000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNK WN	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	-



CAN SYSTEM (TYPE 4)

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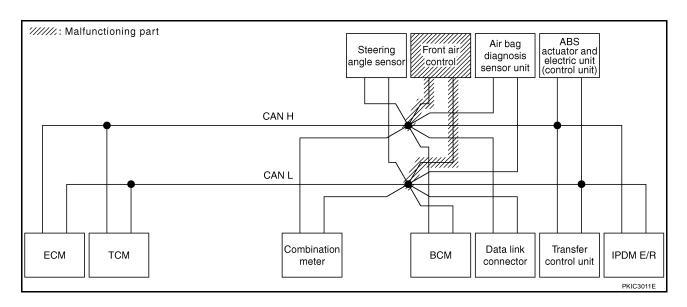
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Case 9
Check front air control circuit. Refer to <u>LAN-149</u>, "Front Air Control Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l screen	Initial	Transmit				Receive of	diagnosis				SELF-DIAG	BESUITS
OLLLOT GTGTLN	i dorcen	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	TILOULIU
ENGINE	_	ı	UNKWN	ı	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	ı	UNKWN	-	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	ı	1	UNKWN	_	_	UNKWN	-	_	I
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	-	1	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	1	-	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U1000)	-

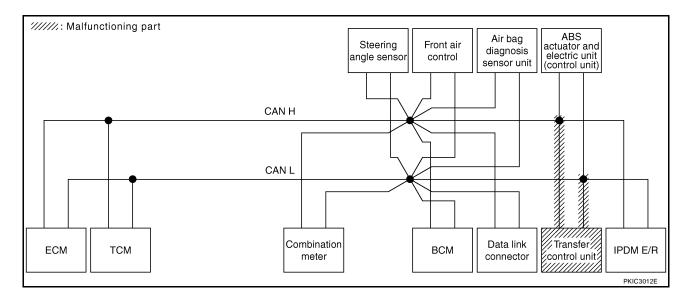


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Case 10
Check transfer control unit circuit. Refer to <u>LAN-150</u>, "<u>Transfer Control Unit Circuit Inspection</u>" .

					CAN	DIAG SU	PPORT N	/NTR					
SELECT SYSTEM	l ecroon	Initial	Transmit				Receive of	diagnosis	1			SELE-DIAG	RESULTS
OLLLO1 GTOTEN	i screen	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOULIU
ENGINE	I	-	UNKWN	I	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN001)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNK WN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	ı	_	UNKWN	-	_	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U. 300)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNK WN	-	_	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	1	_	CAN COMM CIRCUIT (U1000)	_



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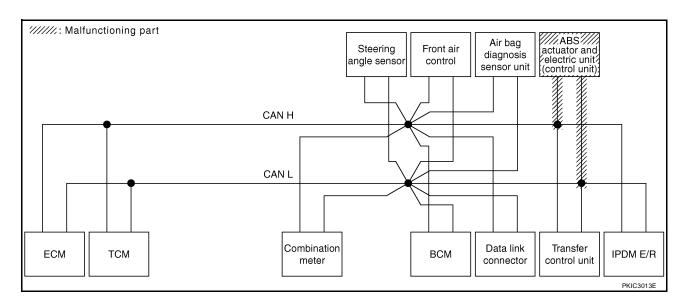
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Case 11

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

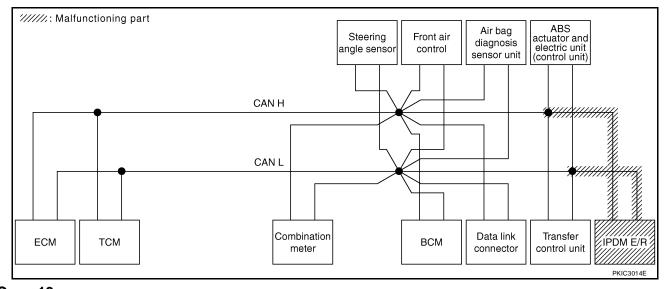
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l screen	Initial	Transmit				Receive of	diagnosis				SELF-DIAG	RESULTS
OLLLOT GTGTLN	1 3010011	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOGLIG
ENGINE	ı	ı	UNKWN	ı	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U. 001)
A/T	ı	NG	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	ı	_	UNKWN	_	_	UNKWN	-	_	-
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	-	1	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (UN 000)	ı
ABS	_	W.	UNK WN	UNK WN	UNK WN	-	_	UNKWN	UNK WN	-	-	CAN COMM CIRCUIT (U. 000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	_



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Case 12
Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive of	diagnosis				SELE-DIAG	RESULTS
OLLLOT GTGTLIV	1 301 0011	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOGETO
ENGINE	ı	1	UNKWN	I	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNK WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	1	NG	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	_	_	-	UNK W N	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	ı	_	UNKWN	_	_	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	-	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	ı	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKWN	ı	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U. 000)	_



Case 13
Check CAN communication circuit. Refer to <u>LAN-152</u>, "CAN Communication Circuit Inspection" .

					CAN	DIAG SU	PPORT N	/NTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive	diagnosis				SELF-DIAG	BESULTS
012201 010121			diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	ı	-	UNK WN	I	UNK WN	UNKWN	UNK WN	ı	UNK WN	UNK WN	UNK WN	CAN COMM CIRCUIT (UN 00)	CAN COMM CIRCUIT (UN 01)
A/T	1	NG	UNKWN	UNK WN	1	UNKWN	1	ı	UNK ₩N	UNK W N	_	CAN COMM CIRCUIT (UN 00)	1
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	-	ı	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	ı
HVAC	No indication	ı	UNKWN	UNKWN	1	_	UNKWN	ı	-	UNKWN	-	_	ı
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	-	ı	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (UN 000)	1
ABS	_	M.	UNK ₩N	UNK WN	UNK WN	_	1	UNK WN	UNK ₩N	_	_	CAN COMM CIRCUIT (UN 000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	1	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U. 000)	-

CAN SYSTEM (TYPE 4)

[CAN]

Case 14

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

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l scroon	Initial	Transmit				Receive of	diagnosis	1			SELE-DIAG	RESULTS
OLLLOT GTOTEN	i sorccii	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TIESOLIS
ENGINE	-	ı	UNKWN	ı	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U. 000)	CAN COMM CIRCU (UN 01)
A/T	_	NG	UNKWN	UNKWN	ı	UNKWN	-	I	UNKWN	UNKWN	ı	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	-	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	_	_	UNKWN	1	_	UNK WN	ı	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNK WN	-	-	UNKWN	_	UNKWN	ı	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 15

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

					CAN	DIAG SU	PPORT N	/NTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive of	diagnosis	3			SELE-DIAG	RESULTS
OLLEGI GIGILIV	1 3010011	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	ı	ı	UNKWN	ı	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	-	_	-	-	-	_	UNKWN	_	CAN COMM CIRCUIT (UN 000)	-
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	ı	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	ı
HVAC	No indication	ı	UNKWN	UNKWN	1	ı	UNKWN	ı	_	UNKWN	1	_	ı
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	I	_	UNKWN	_	UNKWN	I	CAN COMM CIRCUIT (U1000)	ı
ABS	1	NG	UNKWN	1	UNKWN	1	-	ı	-	ı	I	CAN COMM CIRCUIT (UN 000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	_	_	-	CAN COMM CIRCUIT (U1000)	-

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CAN SYSTEM (TYPE 5)

CAN SYSTEM (TYPE 5)

[CAN] PFP:23710

Component Parts and Harness Connector Location

UKS004SH

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

Schematic

UKS004SI

Refer to LAN-26, "Schematic".

Wiring Diagram — CAN —

UKS004SJ

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

CAN SYSTEM (TYPE 5)

[CAN]

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Check Sheet UKS004SK

NOTE:

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

	.ble				CAN	DIAG SII	IPPORT N	INITO				П	
					CAN		Receive		<u> </u>			1	
SELECT SYSTEM	/I screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC		AWD/4WD	VDC/TCS /ABS	IPDM E/R		
NGINE	-	-	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
JTO DRIVE POS.	No indication	1	_	-	UNKWN	UNKWN	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	-
СМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
VAC	No indication	1	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	_	_	_
L MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	-
				Attools -	2014 Cf				Attach a	ov of			
			S	Attach or				SE	Attach cop	oy of STEM			

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

CHECK SHEET RESULTS (EXAMPLE)

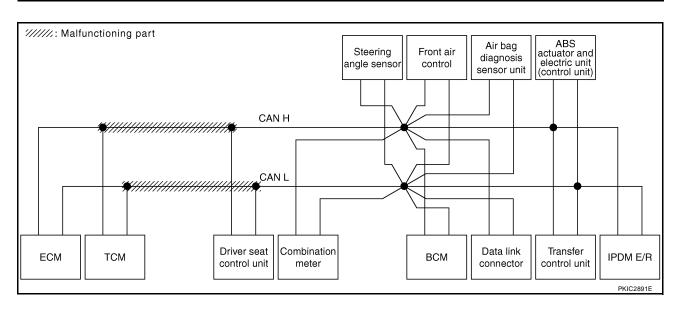
NOTE:

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

Case 1

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

					CAN	DIAG SU	PPORT N	/NTR					
SELECT SYSTEM screen		Initial Transmi				SELF-DIAG RESULTS							
		diagnosis	Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	ı	ı	UNKWN	ı	UNKWN	UNKWN	UNK W N	ı	UNK W N	UNK WN	UN ™ WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	ı	NG	UNKWN	UNKWN	ı	UNKWN	-	-	UNK WN	UNK WN	-	CAN COMM CIRCUIT (UN 000)	-
AUTO DRIVE POS.	No indication	ı	ı	ı	UNK WN	UNKWN	UNKWN	ı	-	1	-	CAN COMM CIRCUIT (UN00)	ı
ВСМ	No indication	NG	UNKWN	UNK WN	I	UNKWN	-	ı	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	1
HVAC	No indication	ı	UNKWN	UNK WN	ı	_	UNKWN	ı	_	UNKWN	-	_	ı
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNK WN	UNK WN	_	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (UN 00)	ı
ABS	ı	NG	UNKWN	UNKWN	UNK WN	_	-	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	I	UNKWN	UNK WN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U. 000)	_



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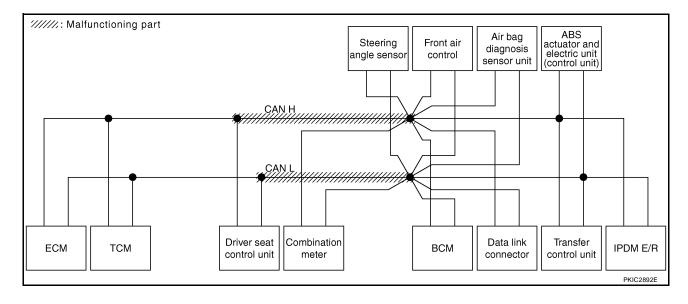
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Case 2

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

CAN DIAG SUPPORT MNTR													
SELECT SYSTEM screen		Initial	Transmit diagnosis			SELF-DIAG RESULTS							
		diagnosis		ECM		METER /M&A	BCM/SEC	CM/SEC STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	1	UNKWN	_	UNKWN	UNKWN	UNK WN	ı	UNK W N	UNKWN	UNK W N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A/T	ı	NG	UNKWN	UNKWN	1	UNKWN	1	ı	UNK WN	UNKWN	-	CAN COMM CIRCUIT (UN 00)	-
AUTO DRIVE POS.	No indication	ı	I	_	UNKWN	UNKWN	UNKWN	-	_	ı	-	CAN COMM CIRCUIT (UN 00)	-
BCM	No indication	NG	UNKWN	UNKWN	1	UNKWN	1	ı	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	ı	UNKWN	UNK WN	ı	ı	UNKWN	-	_	UNKWN	-	_	-
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNK WN	UNK WN	ı	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (UN 00)	_
ABS	ı	NG	UNKWN	UNK WN	UNK WN	ı	ı	UNKWN	UNKWN	1	-	CAN COMM CIRCUIT (UN 00)	-
IPDM E/R	No indication	1	UNKWN	UNK WN	-	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (UN00)	_



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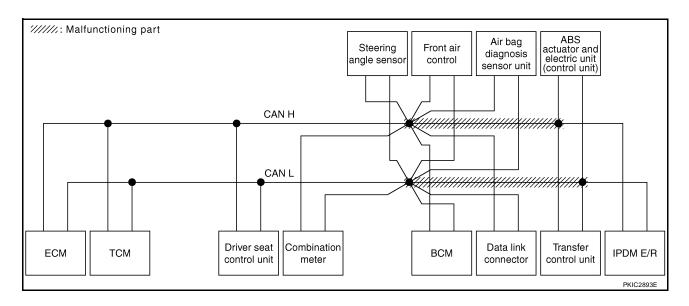
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Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-144</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l coroon	Initial	Transmit				Receive of	diagnosis	i			SELF-DIAG	BESUITS
OLLLOT GTOTEW	i sciecii	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	ı	UNKWN	ı	UNKWN	UNKWN	UNKWN	_	UNKWN	UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (UN001)
A/T	ı	NG	UNKWN	UNKWN	ı	UNKWN	_	-	UNK W N	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
AUTO DRIVE POS.	No indication	ı	-	ı	UNKWN	UNKWN	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U1000)	ı
ВСМ	No indication	NG	UNKWN	UNKWN	I	UNKWN	_	-	-	_	UNK WN	CAN COMM CIRCUIT (U1000)	Ī
HVAC	No indication	I	UNKWN	UNKWN	1	ı	UNKWN	1	_	UNKWN	-	_	Ī
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	ı	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (UN00)	1
ABS	_	NG	UNKWN	UNK WN	UNK WN	-	-	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	-	_	-	CAN COMM CIRCUIT (U 200)	_



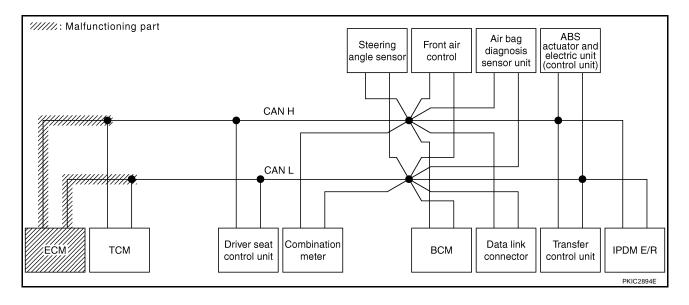
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Case 4
Check ECM circuit. Refer to <u>LAN-145</u>, "ECM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l screen	Initial	Transmit				Receive of	diagnosis				SELF-DIAG	RESULTS
OLLLOT OTOTEN	1 3010011	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLL: DINC	TILOGETO
ENGINE	I	I	UNK WN	I	UNK WN	UNKWN	UNK WN	ı	UNK W N	UNK WN	UNK WN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN 01)
A/T	-	NG	UNKWN	UNK WN	-	UNKWN	_	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN 000)	_
AUTO DRIVE POS.	No indication	ı	ı	ı	UNKWN	UNKWN	UNKWN	ı	_	_	-	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNK WN	-	UNKWN	-	-	ı	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	1	UNKWN	UNK WN	ı	ı	UNKWN	ı	-	UNKWN	-	_	-
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNK WN	UNKWN	ı	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (UN 000)	-
ABS	ı	NG	UNKWN	UNK WN	UNKWN	_	_	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (UN 000)	_
IPDM E/R	No indication	-	UNKWN	UNK WN	-	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U 200)	_

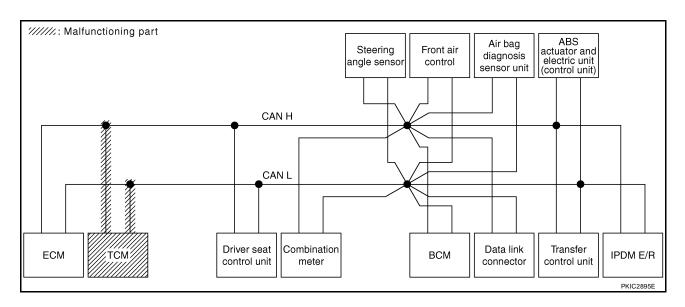


CAN SYSTEM (TYPE 5)

[CAN]

Case 5 Check TCM circuit. Refer to <u>LAN-146</u>, "TCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	/INTR					
SELECT SYSTEM	Lecroon	Initial	Transmit				Receive of	diagnosis	1			SELE-DIAG	RESULTS
OLLLO1 GTOTEN	i soreen	diagnosis	diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOULIO
ENGINE	-	-	UNKWN	ı	UNK WN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN 00)	CAN COMM CIRCUIT (UN001)
A/T	_	NG	UNKWN	UNK WN	_	UNKWN	_	_	UNKWN	UNK WN	-	CAN COMM CIRCUIT (UN 000)	_
AUTO DRIVE POS.	No indication	-	ı	ı	UNK WN	UNKWN	UNKWN	ı	-	1	-	CAN COMM CIRCUIT (UN 00)	ı
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	-	ı	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	1
HVAC	No indication	1	UNKWN	UNKWN	1	ı	UNKWN	ı	_	UNKWN	-	_	ı
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNK WN	ı	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U.00)	ı
ABS	-	NG	UNKWN	UNKWN	UNK WN	-	-	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U. 00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_



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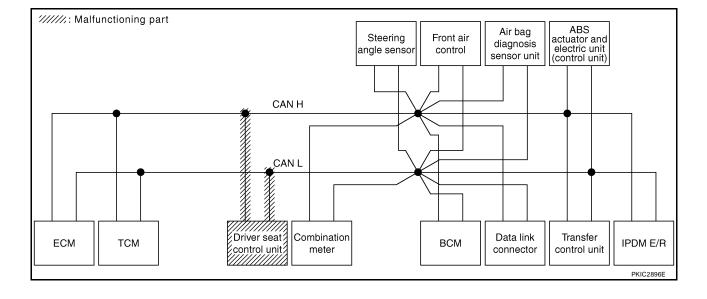
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Case 6
Check driver seat control unit circuit. Refer to <u>LAN-146</u>, "<u>Driver Seat Control Unit Circuit Inspection</u>".

					CAN	DIAG SU	PPORT N	/NTR					
SELECT SYSTEM	l screen	Initial	Transmit				Receive of	diagnosis				SELF-DIAG	RESULTS
OLLEGI GIGILII	1 0010011		diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	ı	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	ı	UNKWN	_	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	ı
AUTO DRIVE POS.	No indication	ı	1	_	UNKWN	UNKWN	UNKWN	-	_	_	-	CAN COMM CIRCUIT (UN 000)	ı
BCM	No indication	NG	UNKWN	UNKWN	I	UNKWN	_	_	1	_	UNKWN	CAN COMM CIRCUIT (U1000)	I
HVAC	No indication	1	UNKWN	UNKWN	I	-	UNKWN	ı	-	UNKWN	-	_	ı
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	1
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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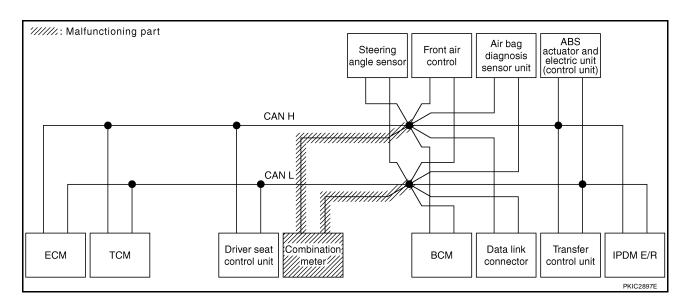
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Case 7
Check combination meter circuit. Refer to <u>LAN-147</u>, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l coroon	Initial	Transmit				Receive of	diagnosis				SELF-DIAG	BESUITS
OLLLO1 GTOTEN	i sciccii	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	THEODEIG
ENGINE	1	-	UNKWN	1	UNKWN	NNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN 00)	_
AUTO DRIVE POS.	No indication	1	1	-	UNKWN	UNK WN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNK WN	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	1	UNKWN	UNKWN	ı	_	UNKWN	_	_	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	ı	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

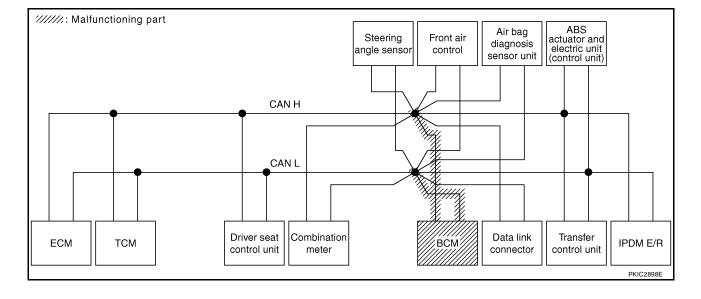


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Case 8
Check BCM circuit. Refer to <u>LAN-148</u>, "BCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive of	diagnosis				SELE-DIAG	RESULTS
OLLEGI GIGILII	1 0010011	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		. 11200210
ENGINE	I	-	UNKWN	I	UNKWN	UNKWN	UNK WN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
A/T	I	NG	UNKWN	UNKWN	ı	UNKWN	ı	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	ı	ı	I	UNKWN	UNKWN	UNK WN	ı	ı	-	ı	CAN COMM CIRCUIT (UN 000)	-
BCM	No indication	NG	UNKWN	UNKWN	I	UNKWN	1	ı	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	I	_	UNK WN	ı	ı	UNKWN	1	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	_	ı	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	I	NG	UNKWN	UNKWN	UNKWN	_	1	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	_	_	_	CAN COMM CIRCUIT (UN 00)	_
													PKIC3489E



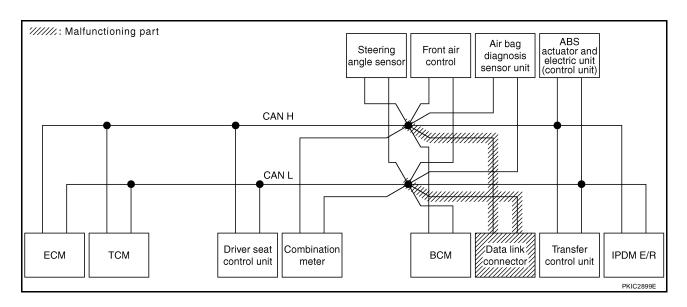
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Case 9
Check data link connector circuit. Refer to <u>LAN-148</u>, "<u>Data Link Connector Circuit Inspection</u>" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	A coroon	Initial	Transmit				Receive of	diagnosis	;			SELE-DIAG	RESULTS
SELECT STOTEN	1 3010011		Transmit diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOULIS
ENGINE	_	1	UNKWN	1	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	_	-	UNKWN	UNKWN	UNKWN	ı	-	-	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	ı	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	ı
HVAC	No indication	-	UNKWN	UNKWN	ı	ı	UNKWN	ı	_	UNKWN	_	_	ı
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	ı	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	İ
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	UNKWN	ı	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_



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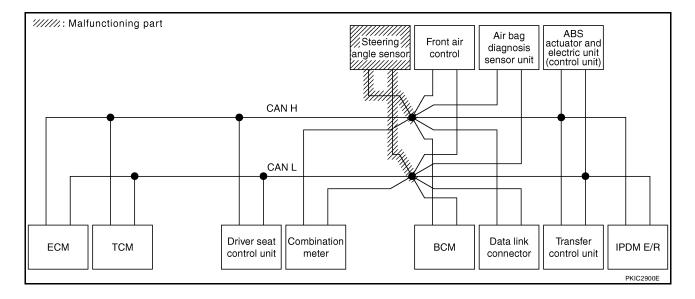
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Case 10 Check steering angle sensor circuit. Refer to <u>LAN-149</u>, "Steering Angle Sensor Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l screen	Initial	Transmit				Receive of	diagnosis				SELF-DIAG	RESULTS
OLLLOT OTOTEN	1 SOLCCII	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	TILOGETO
ENGINE	1	ı	UNKWN	-	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	1	NG	UNKWN	UNKWN	ı	UNKWN	_	ı	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	ı
AUTO DRIVE POS.	No indication	ı	1	_	UNKWN	UNKWN	UNKWN	ı	_	_	-	CAN COMM CIRCUIT (U1000)	ı
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	ı	1	-	UNKWN	CAN COMM CIRCUIT (U1000)	1
HVAC	No indication	ı	UNKWN	UNKWN	-	_	UNKWN	ı	_	UNKWN	-	_	ı
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (UN 000)	ı
ABS	1	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	ı
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



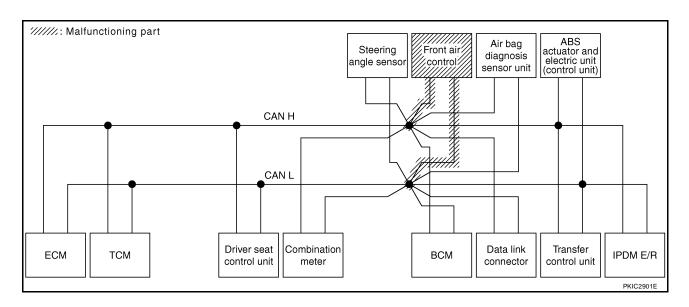
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Case 11
Check front air control circuit. Refer to <u>LAN-149</u>, "Front Air Control Circuit Inspection".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	l coroon	Initial	Transmit				Receive of	diagnosis	i			SELF-DIAG	RESULTS
OLLLOT GTOTEN	1 SOLCCIT	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOGLIG
ENGINE	_	ı	UNKWN	ı	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U1001)
A/T	ı	NG	UNKWN	UNKWN	ı	UNKWN	_	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	ı
AUTO DRIVE POS.	No indication	ı	ı	ı	UNKWN	UNKWN	UNKWN	-	_	_	_	CAN COMM CIRCUIT (U1000)	ı
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	-	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	Ι
HVAC	No indication	ı	UNKWN	UNKWN	1	-	UNKWN	_	_	UNKWN	_	_	-
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	ı	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	ı
ABS	ı	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	-	-	_	CAN COMM CIRCUIT (U1000)	_

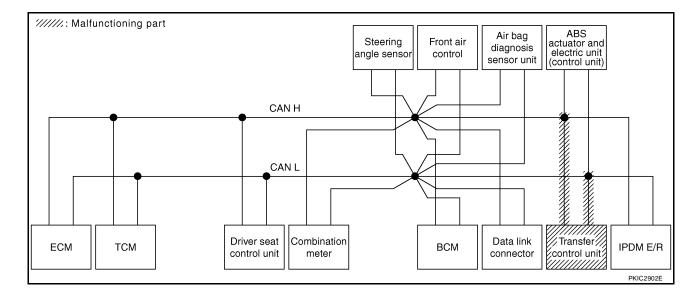


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Case 12
Check transfer control unit circuit. Refer to <u>LAN-150</u>, "<u>Transfer Control Unit Circuit Inspection</u>" .

					CAN	DIAG SU	PPORT N	/INTR					
SELECT SYSTEM	A coroon	Initial	Transmit				Receive of	diagnosis				SELF-DIAG	DESILITS
OLLLOT STOTEN	ii screen	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		THESOLIS
ENGINE	-	-	UNKWN	_	UNKWN	UNKWN	UNKWN	-	UNK W N	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN001)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	-	UNK WN	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	ı	1	_	UNKWN	UNKWN	UNKWN	-	-	-	ı	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	ı	UNKWN	UNKWN	_	-	UNKWN	-	1	UNKWN	I	_	-
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	-	_	UNKWN	-	UNKWN	ı	CAN COMM CIRCUIT (U. 000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNK WN	-	_	CAN COMM CIRCUIT (UN000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



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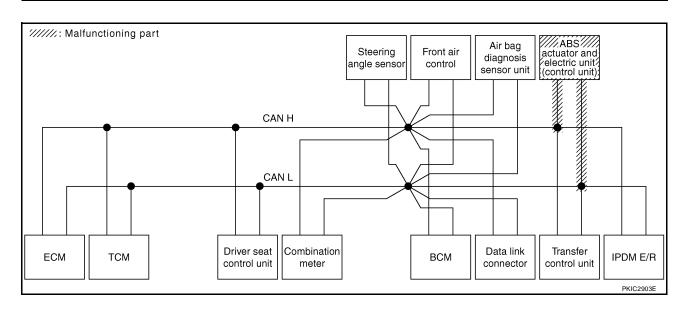
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Case 13

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

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive of	diagnosis	1			SELF-DIAG	RESULTS
OLLEGI GIGILIN	1 301 0011			ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOOLIO
ENGINE	ı	-	UNKWN	ı	UNKWN	UNKWN	UNKWN	-	UNKWN	UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNK WN	-	CAN COMM CIRCUIT (U. 000)	_
AUTO DRIVE POS.	No indication	-	1	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	-	UNKWN	-	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNK WN	-	CAN COMM CIRCUIT (U 1000)	_
ABS	_	₩	UNK WN	UNKWN	UNK WN	-	-	UNK WN	UNK WN	-	-	CAN COMM CIRCUIT (U.000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

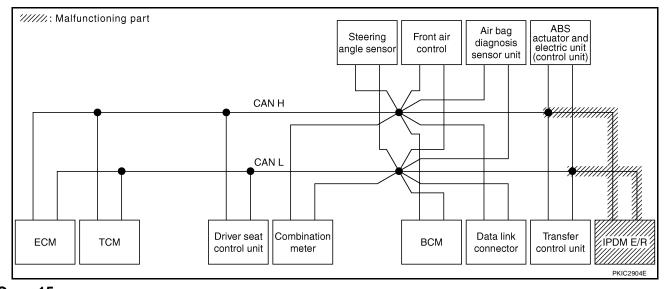


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Case 14
Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive	diagnosis				SELF-DIAG	BESUITS
OLLEGI GIGILII	1 0010011	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	ı	1	UNKWN	ı	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNK W N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U. 001)
A/T	ı	NG	UNKWN	UNKWN	-	UNKWN	_	ı	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	ı	ı	ı	UNKWN	UNKWN	UNKWN	ı	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	ı	_	_	UNK WN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	ı	UNKWN	UNKWN	-	_	UNKWN	ı	_	UNKWN	_	_	-
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	1	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	1	UNKWN	UNKWN	_	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U. 000)	_



Case 15
Check CAN communication circuit. Refer to <u>LAN-152</u>, "CAN Communication Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive of	diagnosis				SELF-DIAG	RESULTS
OLLEGI GIGILII	10010011	diagnosis		ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	022, 57,10	. 11200210
ENGINE	-	-	UNK WN	-	UNK WN	UNK WN	UNK WN	ı	UNK W N	UNK WN	UNK WN	CAN COMM CIRCUIT (UN 000)	CAN COMM CIRCUI (UN01)
A/T	_	NG	UNKWN	UNK WN	_	UNK WN	ı	-	UNK WN	UNK WN	-	CAN COMM CIRCUIT (U. 000)	1
AUTO DRIVE POS.	No indication	ı	I	_	UNKWN	UNKWN	UNKWN	ı	_	_	-	CAN COMM CIRCUIT (UN 000)	İ
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	1	ı	1	_	UNKWN	CAN COMM CIRCUIT (U1000)	İ
HVAC	No indication	ı	UNKWN	UNKWN	ı	_	UNKWN	ı	-	UNKWN	-	_	ı
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	_	ı	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (UN 000)	ı
ABS	ı	₩	UNK WN	UNK WN	UNK WN	_	1	UNKWN	UNK ₩N	_	-	CAN COMM CIRCUIT (UN 000)	İ
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	-	_	-	CAN COMM CIRCUIT (U 100)	_

CAN SYSTEM (TYPE 5)

[CAN]

Case 16

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-153}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

					CAN	DIAG SU	PPORT N	/INTR					
SELECT SYSTEM	1 screen	Initial	Transmit				Receive of	diagnosis	i			SELF-DIAG	BESUITS
OLLLOT GTOTEN	1 3010011		diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		THEODEIG
ENGINE	1	1	UNKWN	1	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN000)	CAN COMM CIRCUIT (UN 01)
A/T	ı	NG	UNKWN	UNKWN	I	UNKWN	_	ı	UNKWN	UNKWN	1	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	ı	ı	ı	UNK WN	UNKWN	UNKWN	ı	_	_	ı	CAN COMM CIRCUIT (UN 00)	-
BCM	No indication	NG	UNKWN	UNKWN	I	UNKWN	-	ı	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	1	UNKWN	UNKWN	1	1	UNKWN	ı	_	UNKWN	1	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNK WN	-	-	UNKWN	-	UNK WN	ı	CAN COMM CIRCUIT (UN 00)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

Case 17

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-153}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	A screen	Initial	Transmit				Receive of	diagnosis	3			SELE-DIAC	RESULTS
OLLLOT OTOTEK	1 3010011		diagnosis	ECM	TCM	METER /M&A	BCM/SEC	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	1	UNKWN	1	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	ı	ı	_	_	-	_	UNKWN	_	CAN COMM CIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	ı	ı	ı	UNKWN	UNKWN	UNKWN	-	_	ı	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	I	UNKWN	_	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	1	UNKWN	UNKWN	1	1	UNKWN	-	_	UNKWN	1	_	_
ALL MODE AWD/4WD	No indication	1	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	1	UNKWN	-	-	-	-	1	1	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

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CAN SYSTEM (TYPE 6)

[CAN] CAN SYSTEM (TYPE 6) Component Parts and Harness Connector Location Refer to LAN-25, "Component Parts and Harness Connector Location" Schematic Refer to LAN-26, "Schematic" Wiring Diagram — CAN —

CAN SYSTEM (TYPE 6)

[CAN]

Check Sheet

NOTE:

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

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit				R	eceive	diagnos	is				SELF-DIAG	RESULTS
OLLEGI GIGILIA	1 0010011		diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	I	_	UNKWN	1	UNKWN	UNKWN	_	UNKWN	1	1	UNKWN	UNKWN	UINKVVIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	_	ı	UNKWN	UNKWN	_	UNKWN	ı	ı	ı	ı	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	-	_	ı	ı	ı	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	-	ı	UNKWN	-	-	_
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	-	-	_	UNKWN	ı	ı	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	ı	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	1	UNKWN	1	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	UNKWN	ı	ı	ı	ı	-	CAN COMM CIRCUIT (U1000)	_

Symptoms:

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

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

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

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

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

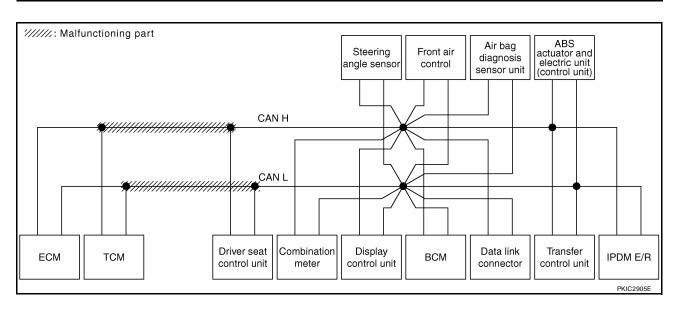
NOTE:

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

Case 1

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

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	l screen	Initial	Transmit				F	eceive	diagnos	is				SELF-DIAG	RESULTS
OLLEGI GIGILIV		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	TILOGLIG
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	_	nukwu	_	_	UNK WN	UNKWN	UNWWIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	_	UNK WN	_	_	_	_	UNK WN	UNKWN	_	CAN COMM CIRCUIT (UN 00)	_
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	_	UNKWN	_	_	_	-	_	CAN COMM CIRCUIT (UN000)	-
Display control unit	_	NG	UNKWN	n uk wu	-	UNKWN	_	UNKWN	_	UNKWN	-	-	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNK WN	_	UNKWN	_	_	_	_	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNK WN	ı	ı	UNKWN	UNKWN	_	_	_	UNKWN	_	_	ı
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	ı	_	_	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (UN 00)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	ı	_	_	UNKWN	_	UNKWN		_	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	_	UNKWN	NNKWN	_	-	_	UNKWN	_	_	_	-	_	CAN COMM CIRCUIT (UN000)	_
															PKIC3499E



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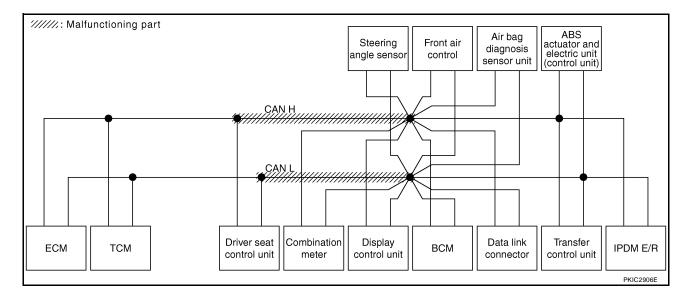
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Case 2
Check harness between driver seat control unit and data link connector. Refer to <u>LAN-143</u>, "Inspection Between Driver Seat Control Unit and Data Link Connector Circuit".

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	l screen	Initial	Transmit				R	eceive	diagnos	is				SELE-DIAG	RESULTS
OLLLOT GTOTEN			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLL: DIAC	TILOOLIO
ENGINE	_	_	UNKWN	-	UNKWN	UNKWN	_	UNI	_	_	UNKWN	UN W N	NNKWN	CAN COMM CIRCUIT (U1000)	(U N 01)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN 000)	_
AUTO DRIVE POS.	No indication	_	-	ı	UNKWN	UNKWN	_	UNKWN	-	_	_	ı	_	CAN COMM CIRCUIT (UN 000)	-
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	-	_	UNKWN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	I	-	UNKWN	UNKWN	ı	_	ı	UNKWN	_	_	ı
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	-	1	ı	UNKWN	_	ı	UNKWN	-	CAN COMM CIRCUIT (UN 000)	1
ABS	_	NG	UNKWN	UNKWN	UNKWN	1	1	ı	UNKWN	_	UNKWN		_	CAN COMM CIRCUIT (UN 000)	ı
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (UN00)	-
															PKIC3500E



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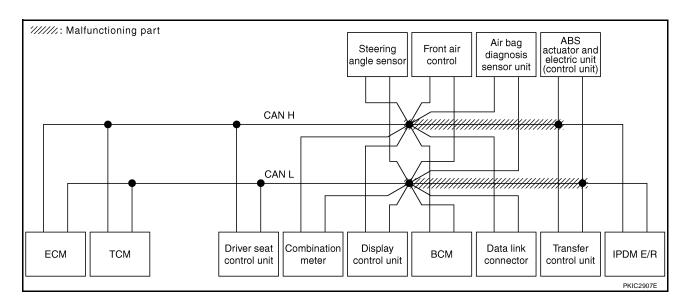
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Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-144</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

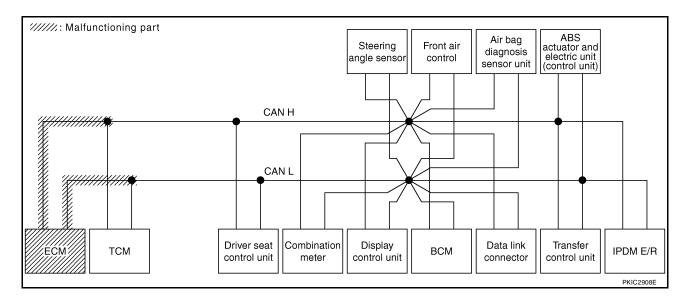
						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit					eceive		is				SELF-DIAG	BESUITS
OLLEGI GIGILIV	1 3010011		diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	ı	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	ı	_	UNKWN	UNKWN	UNKWN	(01000)	CAN COMM CIRCUIT (UN 01)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNK W N	UNK WN	_	CAN COMM CIRCUIT (UN 000)	_
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	_	UNKWN	-	_	_	_	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	_	-	UNKWN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	_	-	-	UNK WN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	ı	_	UNKWN	UNKWN	ı	_	_	UNK WN	ı	_	-
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	UNKWN	ı	CAN COMM CIRCUIT (UN 000)	-
ABS	-	NG	UNKWN	n uk wu	Ω ΝΚ ΜΝ	_	_	_	UNK WN	_	UNKWN	_	ı	CAN COMM CIRCUIT (UN 000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	_	UNKWN	_	_	-	-	_	CAN COMM CIRCUIT (U.00)	_
			•	•							•				PKIC3501E



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Case 4
Check ECM circuit. Refer to <u>LAN-145</u>, "ECM Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	screen	Initial	Transmit				R	Receive	diagnos	is				SELE-DIAG	RESULTS
OLLEGI GIGIEN			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	-	n uk wu	1	UNKWN	UNKWN	-	UNK WN	ı	_	UNK WN	UNKWN	UN K ₩N	CAN COMM CIRCUIT (UN 300)	CAN COMM CIRCUIT (UN001)
A/T	_	NG	UNKWN	UNKWN	ı	UNKWN	_	_	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U. 300)	-
AUTO DRIVE POS.	No indication	-	_	ı	UNKWN	UNKWN	_	UNKWN	-	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	_	_	UNKWN	_	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	ı	-	UNKWN	UNKWN	ı	_	_	UNKWN	_	_	-
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	-	-	_	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (UN 300)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (UN000)	_
IPDM E/R	No indication	_	UNKWN	U NK WN	1	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U. 000)	-
															PKIC3502E

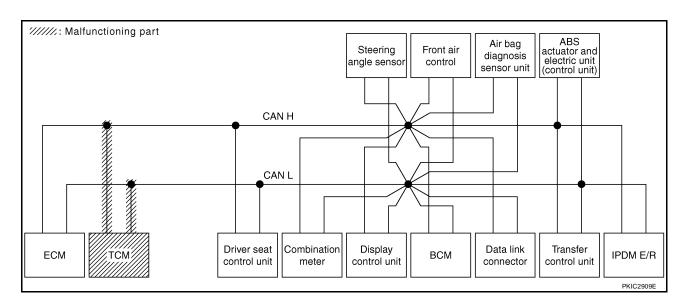


CAN SYSTEM (TYPE 6)

[CAN]

Case 5
Check TCM circuit. Refer to <u>LAN-146</u>, "TCM Circuit Inspection" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	screen	Initial	Transmit					eceive (is				SELF-DIAG	BESUITS
022201 0101211			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	_	UNKWN	ı	1	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (U 101)
A/T	_	NG	UNKWN	UNK WN	-	UNK ₩N	_	_	-	_	n ıκ ₩и	UNK WN	_	CAN COMM CIRCUIT (U. 000)	_
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (UN00)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	_	-	UNKWN	_	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	ı	-	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	ı	ı	_	UNKWN	_	_	-
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	ı	_	_	UNKWN	ı	_	UNKWN	_	CAN COMM CIRCUIT (UN 00)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	-	_	CAN COMM CIRCUIT (UN 000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	-	UNKWN	-	_	-	-	_	CAN COMM CIRCUIT (U1000)	_
															PKIC3503E



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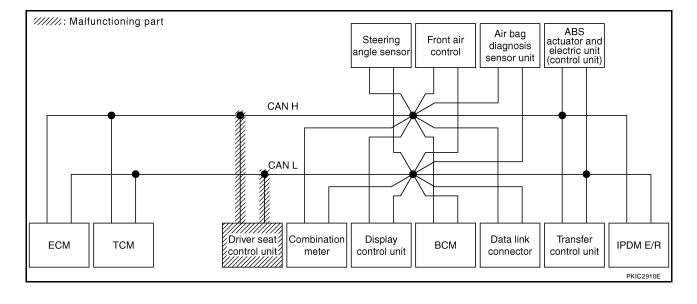
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Case 6
Check driver seat control unit circuit. Refer to <u>LAN-146</u>, "<u>Driver Seat Control Unit Circuit Inspection</u>".

						CAN D		PPORT							
SELECT SYSTEM	screen	Initial	Transmit				R	eceive	diagnos	is				SELE-DIAC	RESULTS
02220101012			diagnosis	ECM	тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	-	UNKWN	1	UNKWN	UNKWN	_	UNKWN	1	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	ı	UNKWN	1	ı	ı	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	_	UNKWN	-	_	_	_	_	CAN COMM CIRCUIT (UN 300)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	UNKWN	_	_	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	-	ı	_	1	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	_	ı	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	I	-	1	UNKWN	_	ı	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	ı	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
															PKIC3504E



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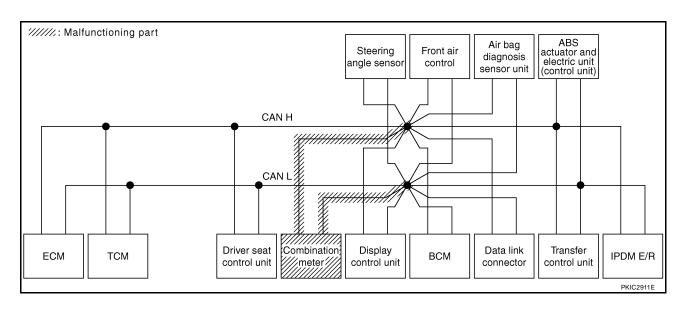
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Case 7
Check combination meter circuit. Refer to <u>LAN-147</u>, "Combination Meter Circuit Inspection" .

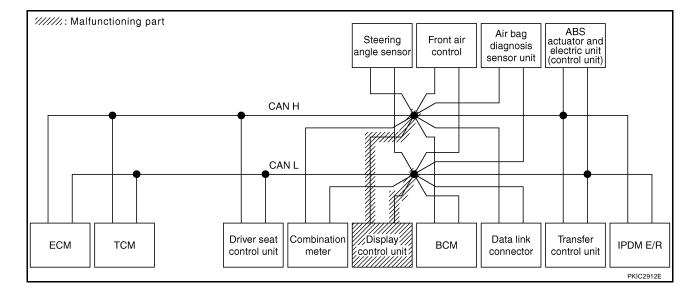
						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	A screen	Initial	Transmit				F	eceive	diagnos	is				SELE-DIAG	RESULTS
			diagnosis		TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	022. 5	
ENGINE	_	_	UNKWN	-	UNKWN	n иk ‰и	-	UNKWN	-	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
A/T	_	NG	UNKWN	UNKWN	_	n uk wu	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U. 300)	_
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	nuk w u	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U. 300)	_
Display control unit	_	NG	UNKWN	UNKWN	_	n uk wu	_	UNKWN	_	UNKWN	_	_	UNKWN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	n uk wu	_	_	-	_	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	UNKWN	-	_	-
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	-	UNKWN	-	_	-	_	_	CAN COMM CIRCUIT (U1000)	-
															PKIC3505E



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Case 8
Check display control unit circuit. Refer to <u>LAN-147</u>, "<u>Display Control Unit Circuit Inspection</u>" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit				F	Receive	diagnos	is				SELF-DIAG	BESUITS
OLLEGI GIGILII	1 0010011		diagnosis	ECM	тсм	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	ı	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	ı	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	_	UNKWN	ı	ı	_	I	ı	CAN COMM CIRCUIT (U1000)	ı
Display control unit	-	NG	n uk wu	n uk wu	_	n uk wu	_	n uk wu	-	∩ NK WN	_	_	UNKWN	-	-
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	_	-	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	_	_	UNK W N	UNKWN	1	_	_	UNKWN	-	_	1
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	ı	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	ı
ABS	1	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	ı	UNKWN	ı	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	-
															PKIC3506E



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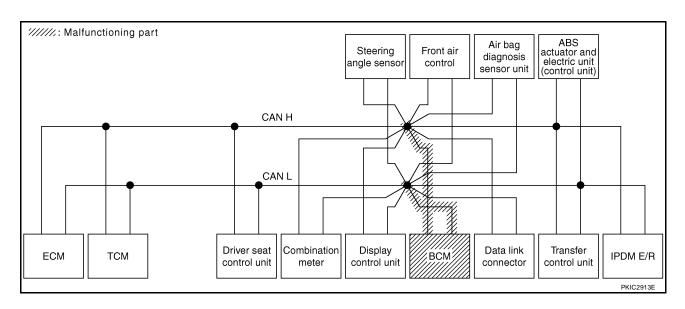
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Case 9
Check BCM circuit. Refer to <u>LAN-148, "BCM Circuit Inspection"</u>.

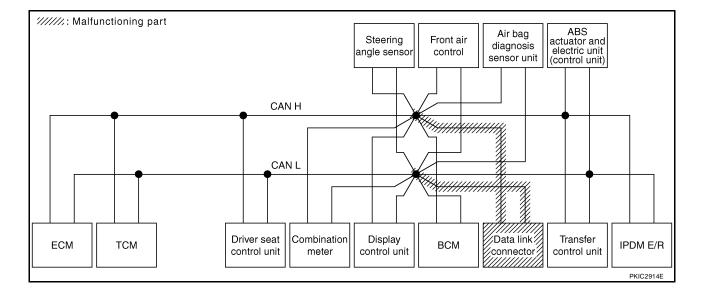
						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit					eceive (is				SELE-DIAG	RESULTS
OLLEGI GIGIEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	ı	UNKWN	-	UNKWN	UNKWN	_	UNK WN	_	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	_	_	UNKWN	UNKWN	_	NNKWN	_	_	-	-	_	CAN COMM CIRCUIT (UN 00)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	n uk wu	_	UNKWN	-	_	UNKWN	_	_
всм	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	-	-	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	1	_	UNKWN	n uk wu	_	_	_	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	-	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	ı	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	1	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	1	_	_	NAKW N	_	_	_	-	_	CAN COMM CIRCUIT (UN 00)	_
															PKIC3507E



LAN

Case 10
Check data link connector circuit. Refer to <u>LAN-148</u>, "<u>Data Link Connector Circuit Inspection</u>" .

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	screen	Initial	Transmit				R	eceive	diagnos	is				SELE-DIAC	RESULTS
022201 01012			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	022. 5	21120210
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	-	UNKWN	ı	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	ı	UNKWN	_	_	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	_	UNKWN	_	_	_	ı	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	UNKWN	_	-	UNKWN	_	_
всм	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	_	_	_	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	ı	-	UNKWN	UNKWN	ı	_	ı	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	-	1	1	UNKWN	_	ı	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	1	ı	UNKWN	_	UNKWN	- 1	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	1	_	-	UNKWN	1	_	_	-	-	CAN COMM CIRCUIT (U1000)	_
															PKIC3508E



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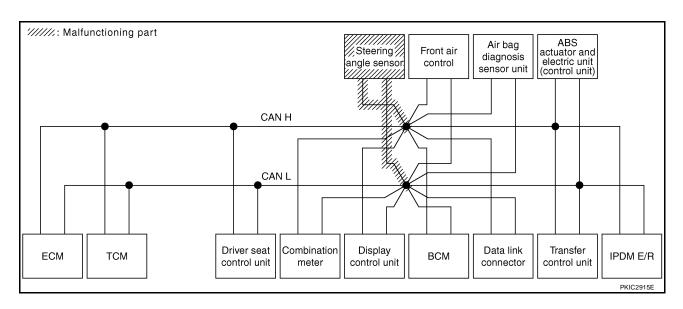
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Case 11
Check steering angle sensor circuit. Refer to <u>LAN-149</u>, "Steering Angle Sensor Circuit Inspection".

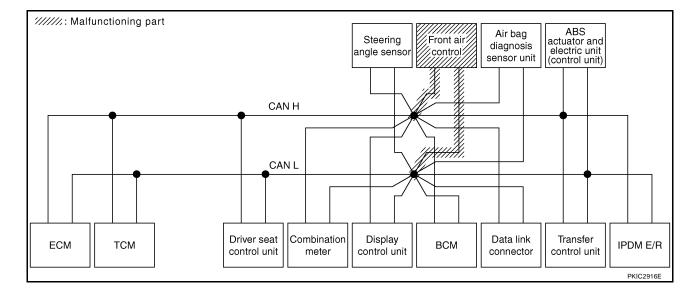
						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit					eceive (is				SELE-DIAG	RESULTS
OLLEGI GIGIEN			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI BINC	11120210
ENGINE	1	_	UNKWN	-	UNKWN	UNKWN	_	UNKWN	ı	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	_	UNKWN	-	_	-	-	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	_	_
всм	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	_	ı	_	-	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	ı	_	ı	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	ı	_	_	UNKWN	_	ı	UNKWN	_	CAN COMM CIRCUIT (UN 00)	_
ABS	ı	NG	UNKWN	UNKWN	UNKWN	ı	_	_	UNKWN	_	UNKWN		_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	-	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
															PKIC3509E



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Case 12
Check front air control circuit. Refer to <u>LAN-149</u>, "Front Air Control Circuit Inspection".

	•				•	CAN D	IAG SU	PPORT	MNTR			•			
SELECT SYSTEM	1 screen	Initial	Transmit					eceive		is				SELF-DIAG	RESULTS
OLLLOT OTOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	TILOGLIG
ENGINE	ı	_	UNKWN	1	UNKWN	UNKWN	_	UNKWN	ı	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	_	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	-	ı	UNKWN	UNKWN	_	UNKWN	ı	_	_	I	_	CAN COMM CIRCUIT (U1000)	ı
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_	UNKWN	-	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	-	_	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	ı
HVAC	No indication	_	UNKWN	UNKWN	ı	-	UNKWN	UNKWN	ı	_	_	UNKWN	_	_	ı
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	-	_	1	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	1
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	-	UNKWN	-	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
															PKIC3510E



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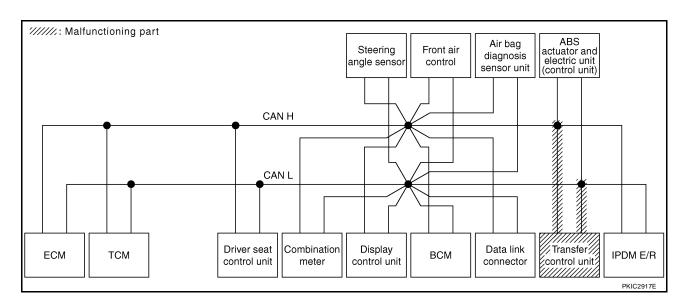
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Case 13
Check transfer control unit circuit. Refer to <u>LAN-150</u>, "<u>Transfer Control Unit Circuit Inspection</u>" .

						CAN D		PPORT							
SELECT SYSTEM	A screen	Initial	Transmit				F	eceive (diagnos	is				SELF-DIAG	BESUITS
022201 010121		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	022, 57,10	. 11200210
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	_	n иk ‰и	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	n uk wu	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	_	-	UNKWN	UNKWN	_	UNKWN	-	_	_	-	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	_	-	UNKWN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	-	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
HVAC	No indication	_	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	ı	_	_	UNKWN	_	_	-
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (UN 000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	_	n иk ‰и	_	_	CAN COMM CIRCUIT (U. 00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
															PKIC3511E

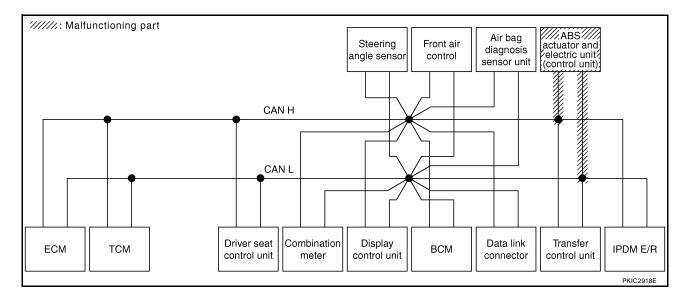


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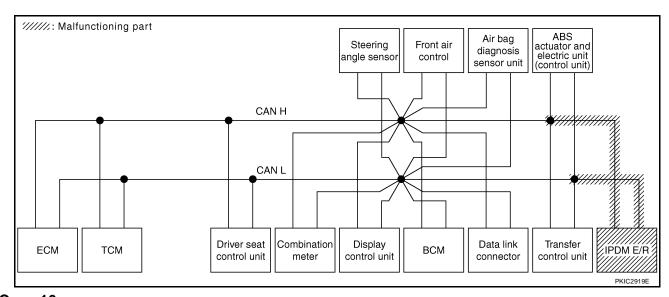
Case 14
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-151</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

						CAN D		PPORT							
SELECT SYSTEM	1 screen	Initial	Transmit				F	eceive	diagnos	is				SELF-DIAG	RESULTS
OLLLO1 GTOTEN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	1	_	UNKWN	1	UNKWN	UNKWN	-	UNKWN	1	_	UNKWN	UNK W N	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN 01)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN 00)	_
AUTO DRIVE POS.	No indication	_	_	-	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	_	_	UNKWN	_	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	_	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	ı	-	UNKWN	UNKWN	ı	_	_	UNK W N	_	_	-
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	-	1	1	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (UN00)	_
ABS	ı	₩.	UNKWN	UNKWN	UNKWN	-	ı	ı	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	-
·															PKIC3512E



Case 15
Check IPDM E/R circuit. Refer to LAN-151, "IPDM E/R Circuit Inspection".

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	l screen	Initial	Transmit					eceive (is				SELE-DIAG	RESULTS
022201 0101211			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	1	UNKWN	-	UNKWN	UNKWN	_	UNKWN	ı	1	UNKWN	UNKWN	UNWWIN	(U1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	_	UNKWN	UNKWN	_	UNKWN	-	-	_	-	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	_	-	Π ΝΚ ΜΝ	_	_
всм	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	-	_	-	-	-	UNK WN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	ı	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	ı	ı	_	UNKWN	_	_	_
ALL MODE AWD/4WD	No indication	ı	UNKWN	UNKWN	UNKWN	ı	_	_	UNKWN	ı	_	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 (UN00)	_
															PKIC3513E



Case 16
Check CAN communication circuit. Refer to <u>LAN-152</u>, "CAN Communication Circuit Inspection" .

						CAN D	IAG SU															
SELECT SYSTEM	screen	Initial	Transmit						diagnos	is				SELF-DIAG	BESUITS							
OLLEGI GIGILIN			diagnosis	ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	TILOULIU							
ENGINE	-	_	NNKWN	_	UNKWN	UNK W N	_	n uk wu	_	_	∩ NR WN	UNK W N	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN001)							
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN 00)	-							
AUTO DRIVE POS.	No indication	_	_	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (UN00)	_							
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	nukwu	_	UNK WN	_	_	UNK WN	_	-							
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	_	_	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	ı							
HVAC	No indication	_	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	_	_	_	UNKWN	_	_	ı							
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	ı	_	_	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (UN 00)	ı							
ABS	_	V	UNKWN	UNK WN	UNKWN	ı	_	_	UNK WN	_	UNK WN	_	_	CAN COMM CIRCUIT (UN 00)	_							
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (UN00)	-							

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Case 17

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

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	A screen	Initial	Transmit				R	eceive	diagnos	is				SELF-DIAG	BESUITS
OLLEGI GIGILIN		diagnosis		ECM	TCM	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	TILOOLIO
ENGINE	_	_	UNKWN	1	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN 000)	CAN COMM CIRCUIT (UN001)
A/T	_	NG	UNKWN	UNKWN	ı	UNKWN	_	_	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	ı
AUTO DRIVE POS.	No indication	_	_	_	UN K WN	UNKWN	_	UNKWN	_	_	_	-	_	CAN COMM CIRCUIT (U. 00)	-
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	UNKWN	_	-	UNKWN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	_	_	_	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	1
HVAC	No indication	_	UNKWN	UNKWN	I	-	UNKWN	UNKWN	-	_	ı	UNKWN	-	_	ı
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	-	UNKWN	ı	CAN COMM CIRCUIT (UN 000)	ı
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	ı	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	1	_	-	UNKWN	-	_	_	-	1	CAN COMM CIRCUIT (U1000)	-
														PKIC3515E	

Case 18

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-153}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$ ".

						CAN D	IAG SU	PPORT	MNTR						
SELECT SYSTEM	1 screen	Initial	Transmit				R	eceive	diagnos	is				SELF-DIAG	RESULTS
OLLLOT STOTEN			diagnosis	ECM	ТСМ	METER /M&A	DISPLAY	BCM/SEC	STRG	HVAC	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEEF-BIAC	TILOULIO
ENGINE	-	_	UNKWN	ı	UNKWN	UNKWN	_	UNKWN	ı	ı	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	_	_	_	_	_	_	_	_	UNKWN	_	CAN COMM CIRCUIT (UN 00)	_
AUTO DRIVE POS.	No indication	_	_	ı	UNKWN	UNKWN	_	UNKWN	ı	ı	ı	-	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	ı	UNKWN	_	ı	I	ı	ı	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
HVAC	No indication	_	UNKWN	UNKWN	ı	I	UNKWN	UNKWN	ı	ı	ı	UNKWN	-	_	ı
ALL MODE AWD/4WD	No indication	_	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	-	-	UNKWN		CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	ı	UNKWN	ı	_	_	-	-	-	_	_	CAN COMM CIRCUIT (UN 00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	1	1	-	UNKWN	1	1	1	-	_	CAN COMM CIRCUIT (U1000)	_

TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

TROUBLE DIAGNOSIS FOR SYSTEM

PFP:00000

Inspection Between TCM and Driver Seat Control Unit Circuit

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1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
- Harness connector F14
- Harness connector E5
- Harness connector E34
- Harness connector B40

OK or NG

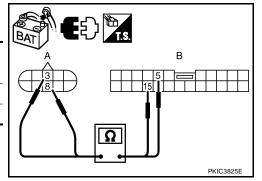
OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



OK or NG

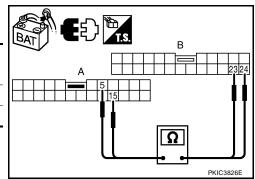
OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

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

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



OK or NG

OK >> GO TO 4.

NG >> Repair harness.

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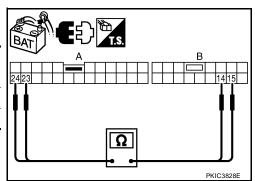
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4. CHECK HARNESS FOR OPEN CIRCUIT

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

	A		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
P40	24	B37	15	Yes
B40	23	537	14	Yes



OK or NG

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

NG >> Repair harness.

Inspection Between TCM and Data Link Connector Circuit

UKS004RH

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- Disconnect the battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
- Harness connector F14
- Harness connector E5
- Harness connector E34
- Harness connector B40
- Harness connector B69
- Harness connector M40

OK or NG

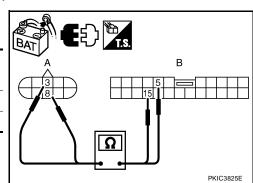
OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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



OK or NG

OK >> GO TO 3.

NG >> Repair harness.

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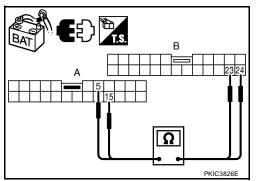
LAN

M

3. CHECK HARNESS FOR OPEN CIRCUIT

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

А		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E5	5	E24	24	Yes
	15	E34	23	Yes



OK or NG

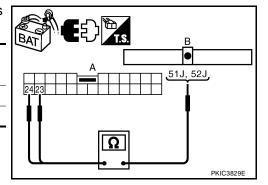
OK >> GO TO 4.

NG >> Repair harness.

4. CHECK HARNESS FOR OPEN CIRCUIT

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

A		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B40	24	B69	51J	Yes
B40	23	D09	52J	Yes



OK or NG

OK >> GO TO 5.

NG >> Repair harness.

5. CHECK HARNESS FOR OPEN CIRCUIT

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

А		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	51J	M22	6	Yes
	52J		14	Yes

51J, 52J

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to

LAN-5, "TROUBLE DIAGNOSES WORK FLOW".

NG >> Repair harness.

Inspection Between Driver Seat Control Unit and Data Link Connector Circuit

1. CHECK CONNECTOR

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

OK or NG

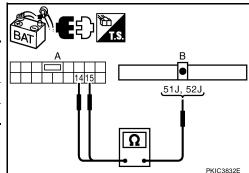
OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

A		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D27	15	B69	51J	Yes
B37	14	D09	52J	Yes



OK or NG

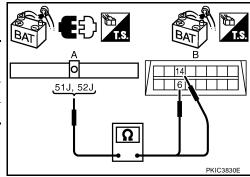
OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

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

	А		В	
Connector	Terminal	Connector	Terminal	Continuity
M40	51J	M22	6	Yes
10140	52J	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 M31
- Harness connector E152

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

TROUBLE DIAGNOSIS FOR SYSTEM

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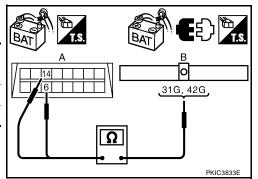
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$\frac{1}{2}$. Check harness for open circuit

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

А		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M22	6	M31	31G	Yes
IVIZZ	14	IVIST	42G	Yes



OK or NG

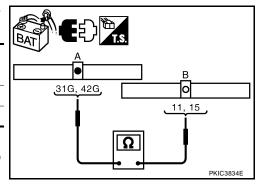
OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

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

А		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E152	31G	E125	11	Yes
	42G	L 123	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 E5
- Harness connector F14

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

UKS004RM

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2. CHECK HARNESS FOR OPEN CIRCUIT

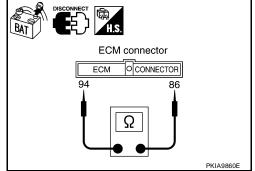
- 1. Disconnect ECM connector.
- 2. Check resistance between ECM harness connector terminals.

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

OK or NG

OK >> Replace ECM.

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



UKS004RN

TCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

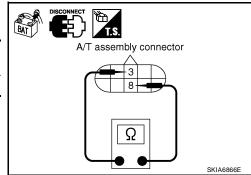
- 1. Disconnect A/T assembly connector.
- Check resistance between A/T assembly harness connector terminals.

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

OK or NG

OK >> Replace control valve with TCM.

NG >> Repair harness between A/T assembly and harness connector F14.



UKS004RF

Driver Seat Control Unit Circuit Inspection

1. CHECK CONNECTOR

- 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 harness side).
- Driver seat control unit connector
- Harness connector P1
- Harness connector B37

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

$\overline{2}$. Check harness for open circuit

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

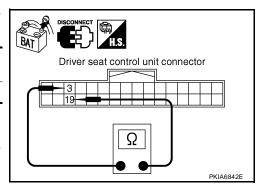
Driver seat control unit connector	Terminal		Resistance (Approx.)
P2	3	19	54 – 66 Ω

OK or NG

OK >> Replace driver seat control unit.

NG

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



UKS004RQ

Combination Meter Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. check harness for open circuit

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

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

OK or NG

OK >> Replace combination meter.

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

Combination meter connector Ω PKIA6837E

UKS004RR

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.

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2. CHECK HARNESS FOR OPEN CIRCUIT

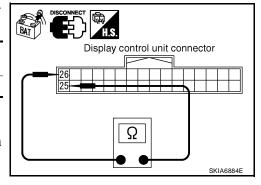
- 1. Disconnect display control unit connector.
- Check resistance between display control unit harness connector terminals.

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

OK or NG

OK >> Replace display control unit.

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



UKS004RS

BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

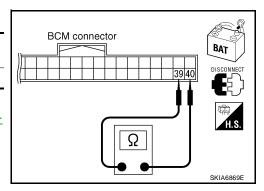
- 1. Disconnect BCM connector.
- Check resistance between BCM harness connector terminals.

BCM connector	Terminal		Resistance (Approx.)
M18	39	40	$54-66~\Omega$

OK or NG

OK >> Replace BCM. Refer to <u>BCS-20</u>, "Removal and Installation".

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



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Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

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

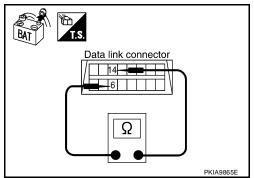
OK or NG

OK

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

NG

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



Steering Angle Sensor Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.

Disconnect the battery cable from the negative terminal.

Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

$2.\,$ check harness for open circuit

Disconnect steering angle sensor connector.

Check resistance between steering angle sensor harness connector terminals.

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

OK or NG

OK >> Replace steering angle sensor.

NG

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

Steering angle sensor connector Ω PKIA6838F

UKS004RV

Front Air Control Circuit Inspection 1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

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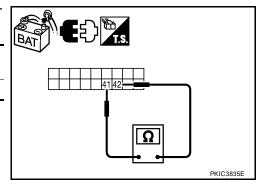
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2. CHECK HARNESS FOR OPEN CIRCUIT

Front air control with display

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

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



Front air control without display

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

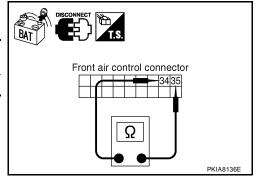
Front air control connector	Terminal		Resistance (Approx.)
M50	34	35	54 – 66 Ω

OK or NG

OK >> Replace front air control.

NG >> Repair harness betwee

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



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Transfer Control Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

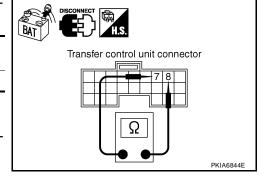
- 1. Disconnect transfer control unit connector.
- Check resistance between transfer control unit harness connector terminals.

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

OK or NG

OK >> Replace transfer control unit.

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



TROUBLE DIAGNOSIS FOR SYSTEM

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ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

1. CHECK CONNECTOR

Turn ignition switch OFF.

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

OK or NG

NG

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

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

ABS actuator and electric unit (control unit) connector C/UNIT O CONNECTOR 11 15 SKIA6872E

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IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

OK or NG

OK >> Replace IPDM E/R.

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

IPDM E/R connector

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CAN Communication Circuit Inspection

1. CHECK CONNECTOR

Turn ignition switch OFF.

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector as necessary.

2. CHECK HARNESS FOR SHORT CIRCUIT

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

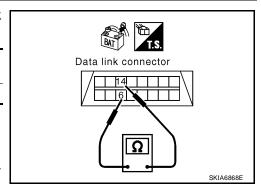
Data link connector	Terminal		Continuity
M22	6	14	No

OK or NG

OK >> GO TO 3.

NG >> ● Repair harness.

Change harness if shielded lines are used for the harness.



3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

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

OK or NG

OK >> GO TO 4.

NG >>

■ Repair harness.

Change harness if shielded lines are used for the harness.

Data link connector Or PKIA9872E

4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

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

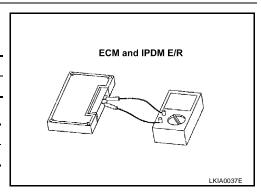
Check resistance between IPDM E/R terminals.

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

OK or NG

OK >> GO TO 5.

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



TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

5. СНЕСК ЗҮМРТОМ

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

OK or NG

OK >> GO TO 6.

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

6. UNIT REPRODUCIBILITY INSPECTION

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

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

Inspection results

Reproduced>>Install removed unit, and then check the other unit.

Not reproduced>>Replace removed unit.

IPDM E/R Ignition Relay Circuit Inspection

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

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

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