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PRECAUTIONS

PRECAUTIONS

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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 Manual.

WARNING:

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

Precautions for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Precautions When Using CONSULT-II

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

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

Precautions For Trouble Diagnosis CAN SYSTEM

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

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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).]



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(The spliced wire will become separated and the characteristics NG: Bypass wire connection

of twisted line will be lost.)

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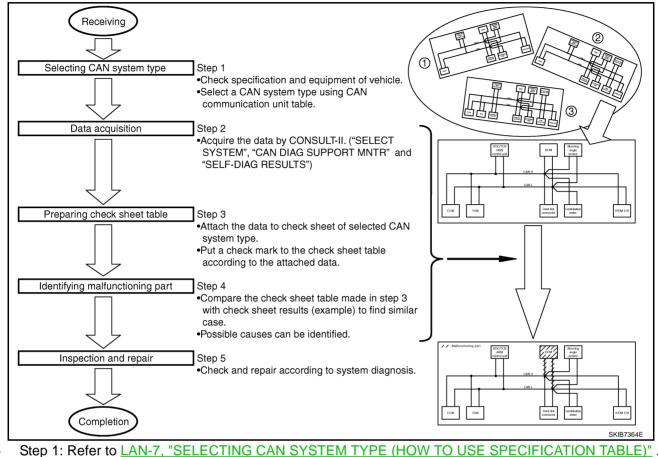
[CAN]	
TROUBLE DIAGNOSES WORK FLOW PFP:00004	
When Displaying CAN Communication System Errors NKSOONA WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM NKSOONA	Α
CAN communication line is open. (CAN H, CAN L, or both)	E
CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)	
The areas related to CAN communication of unit is malfunctioning.	
WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM	C
 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). 	D
 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.	E
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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 2: Refer to LAN-8, "ACQUISITION OF DATA BY CONSULT-II" .
- Step 3: Refer to LAN-9, "HOW TO USE CHECK SHEET TABLE" .
- Step 4: Refer to LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- Step 5: Refer to LAN-157, "TROUBLE DIAGNOSIS FOR SYSTEM" .

[CAN]

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

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

(Example) Coupe/2WD/V Without autom					ntellige	ent Key	' syste	m/Witł	out rear active steer/	
CAN Communication U Go to CAN system, when		ing yo	ur CAN	l syste	em type	e from	the foll	owing	table.	
Body type				Co	oupe					
Axle				2\	WD					
Engine				VQ	35DE				Check basic specifications of the vehicle.	
Transmission		N	//Т			A	νT			
Brake control		VDC							- J	
Intelligent Key system						×		×	Select "×" if it is model with Intelligent Key system.	
Rear active steer			×	×			×	×	- Select " ×" if it is model with rear active steer.	
Automatic drive positioner		×		×		×		×	Select " ×" if it is model with automatic drive positioner.	
CAN system type	1	2	3	4	5	6	7	8		
CAN system trouble diagnosis	\$2:32	XX:XX	: 28:22	XX:XX	. XX:XX	C XX:XX	XX:XX		Which number is selected when sequentially selecting 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 5.	
									SKIB7365E	

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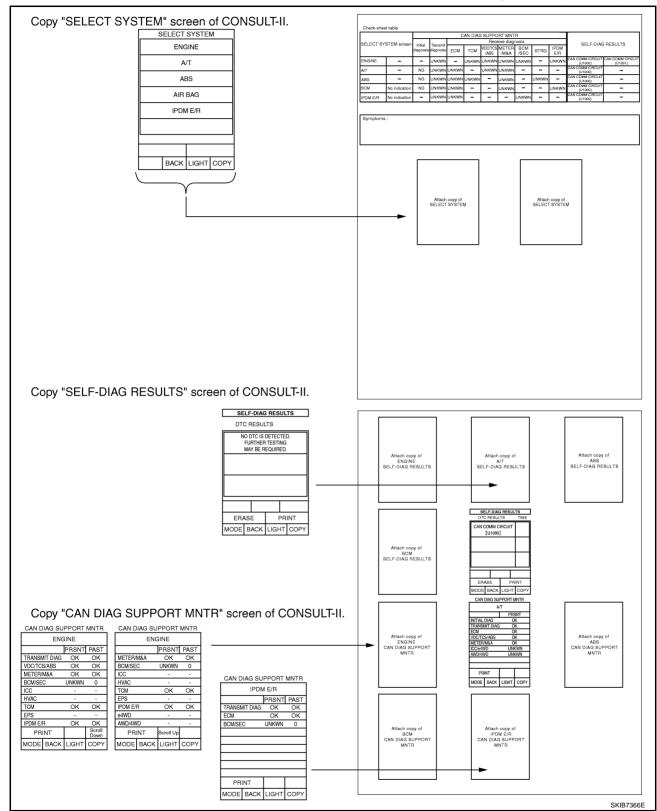
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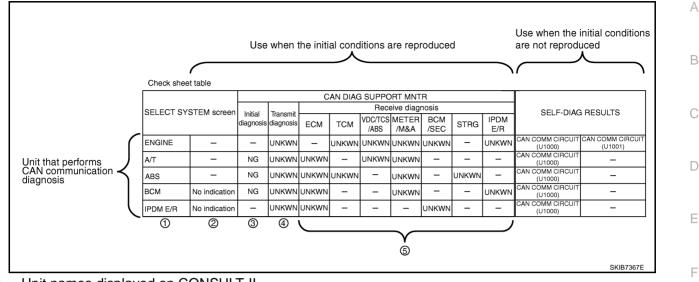
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ACQUISITION OF DATA BY CONSULT-II

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



HOW TO USE CHECK SHEET TABLE



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

NOTE:

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

- When the initial conditions are reproduced, refer to <u>LAN-10</u>, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- When the initial conditions are not reproduced, refer to <u>LAN-13</u>, "Example of Filling in Check Sheet When <u>Initial Conditions Are Not Reproduced</u>".

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Example of Filling in Check Sheet When Initial Conditions Are Reproduced CAN DIAG SUPPORT MNTR CAN DIAG SUPPORT MNTR ENGINE ENGINE PRSNT PAST PRSNT PAST TRANSMIT DIAG OK OK METER/M&A OK OK UNKWN 0 VDC/TCS/ABS OK BCM/SEC OK METER/M&A <u>OK OK</u> BCM/SEC UNKWN 0 HVAC ICC TCM OK OK HVAC TCM OK OK IPDM F/B OK OK FPS e4WD IPDM E/R OK OK AWD/4WD PRINT PRINT Scroll Ur Dow MODE BACK LIGHT COPY MODE BACK LIGHT COPY Check sheet table CAN DIAG SUPPORT MNTR Receive diagnosis SELECT SYSTEM scree SELF-DIAG RESULTS Initial Transmit VDC/TCS METER BCM IPDM iagnos diagnosi ECM тсм STRG /ABS /M&A E/R /SEC AN COMM CIRCUIT CAN COMM CIRCU ENGINE UNKWN UNKWN UNKWN UNKWN UNKWN JNKWN (U1000) AN COMM CIRCUI (U1001) ∆лт _ NG UNKWNUNKWN UNKWNIUNKWN _ _ _ _ (U1000) AN COMM CIRCUI (U1000) AN COMM CIRCUI ABS UNKWN UNKWN _ NG UNKWN UNKWN _ _ UNKWN _ BCM No indication _ _ NG UNKW _ UNKWN _ UNKWN UNKWN (U1000) IPDM E/R No indicatio UNKWN UNKWI _ _ UNKWN _ _ _ (U1000) SELECT_SYSTEM_ ENGINE A/T ABS AIR BAG IPDM E/R BACK LIGHT COPY SKIB7368E

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

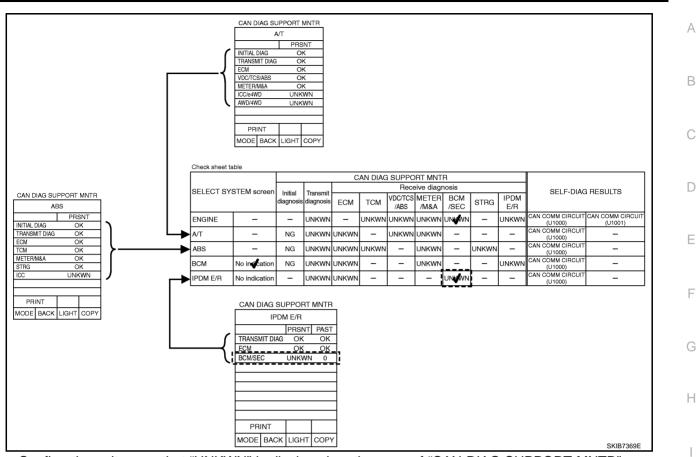
NOTE:

Put a check mark to "No indication" of BCM because BCM 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 "BCM/SEC". 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", "ABS" and "IPDM E/R" as well as "ENGINE". And then, put a check mark to the check sheet table.

NOTE:

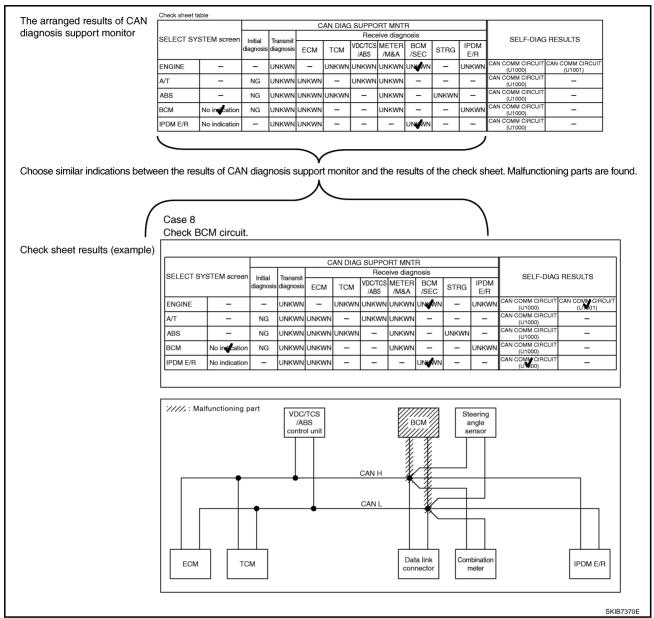
- For "A/T", "UNKWN" is displayed on "ICC/e4WD" and "AWD/4WD". But, do not put a check mark to their columns of reception diagnosis of the check sheet table because "UNKWN" is not listed.
- For "ABS", "UNKWN" is displayed on "ICC". But, do not put a check mark to their columns of reception diagnosis of the check sheet table because "UNKWN" is not listed.
- For "IPDM E/R", "UNKWN" is displayed on "BCM/SEC". Put a check mark to it.

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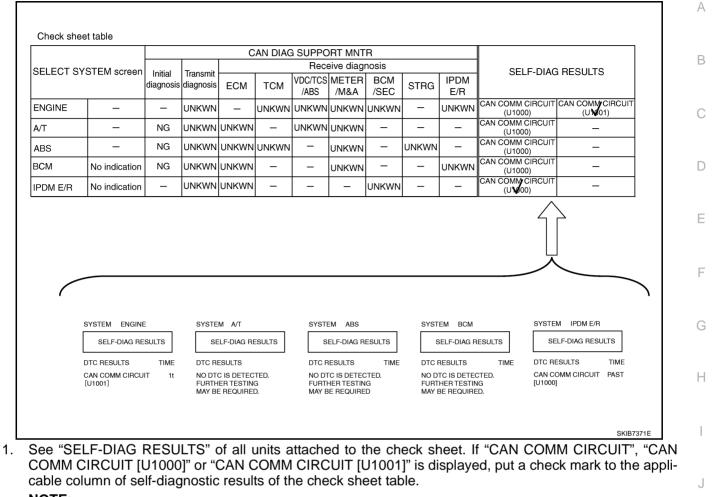
NOTE:

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.

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

Start CAN system trouble diagnosis if this procedure can be confirmed. Refer to <u>LAN-26</u>, "CAN Communication Unit".

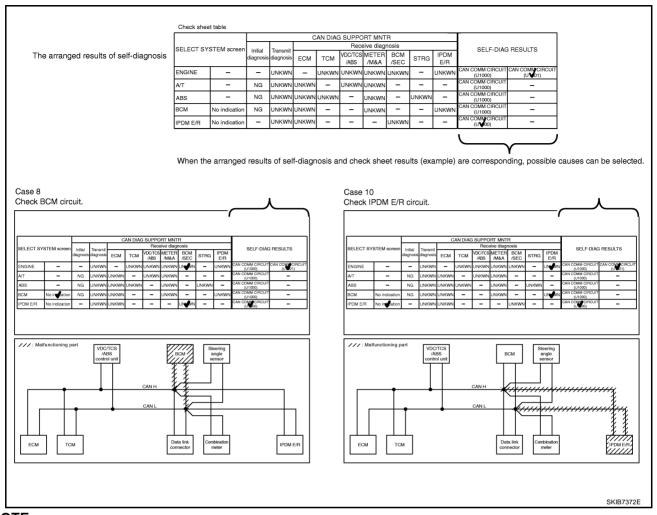
Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced



NOTE:

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

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

[CAN]	
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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	DI
	BCM/SEC OK OK	HVAC
	ICC DOI	TCM OK OK
	HVAC	EPS
	TCM OK OK	IPDM E/R OK OK
	EPS	e4WD
	IPDM E/R OK OK	AWD/4WD
	PRINT Scroll Down	PRINT Scroll Up
	MODE BACK LIGHT COPY	MODE BACK LIGHT COPY PKIC4055E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past	Е		
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-				
	VDC/TCS/ABS	Make sure of normal reception from VDC/TCS/ ABS control unit.	OK/UNKWN/-				
ENGINE	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN/-	- - - ОК/0/1 — 39/— -	G		
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-		G		
	ICC	ICC is not diagnosed.	_				
	HVAC	HVAC is not diagnosed.	_		Н		
	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	AWD/4WD is not diagnosed.	-		J		

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 $0 \rightarrow 1 \rightarrow 2...38 \rightarrow 39$ after returning to the • Μ 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

mple)	CAN D	IAG SU	PPORT	MNTR	
• •		A	/Т		
			PR	SNT	
	INITIAL	DIAG	C	ĸ	
	TRANS	/IT DIAG	C	ĸ	
	ECM		С	ĸ	
	VDC/TC	S/ABS	C		
	METER/	M&A	С	ĸ	
	ICC/e4W	/D	UNF	(WN	
	AWD/4W	/D	UNF	(WN	
	PR	INT			
	MODE	BACK	LIGHT	COPY	SKIB1623E

"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 VDC/TCS/ABS 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	AWD/4WD is not diagnosed.	UNKWN

Display Results (Present)

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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR INTELLIGENT KEY UNIT

(Evennele)	CAN		PPORT M	NTD	
(Example)	CAN	DIAG 30	1		
		INTELLIG			
			PRSNT	PAST	
	TRANSM	/IT DIAG	OK	OK	
	ECM		OK	OK	
	METER/	M&A	OK	OK	
	BCM/SE	С			
	PR	INT			
	MODE	BACK	LIGHT	COPY	SKIB2359E

"SELECT SYS- TEM" screen	"CAN DIAG SUP- PORT MNTR" screen	Description	Present	Past	
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN		
INTELLIGENT	ECM	Make sure of normal reception from ECM.	OK/UNKWN	OK/0/1 – 39/–	
KEY	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN	010/0/1 - 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.

Display Results (Past)

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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR VDC/TCS/ABS CONTROL UNIT

							1
(Example)		IAG SU	PPORT	MNTR			
		AE	BS				A
			PR	SNT			
	INITIAL	DIAG	C	Ж			
	TRANSM	/IT DIAG	C	Ж			
	ECM		C	Ж			D
	TCM		C	Ж			D
	METER/	M&A	С	Ж			
	STRG		С	к			
	ICC		UN	(WN			
	RAS		С	Ж			C
							0
	PR	INT					
	MODE	BACK	LIGHT	COPY	SKIE	7363E	
							D

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	D
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG	F
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN	
ABS	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN	F
ADO	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN	
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN	0
	ICC	ICC is not diagnosed.	UNKWN	G
	RAS	Make sure of normal reception from RAS control unit	OK/UNKWN	

Display Results (Present)

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



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

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

Display Results (Present)

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

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN (Exam FOR RAS CONTROL UNIT

ample)	CAN D	IAG SU	PPORT	MNTR	
• •		RAS/H	HICAS		
			PRSNT	PAST	
	TRANSM	1IT DIAG	OK	OK	
	ECM		OK	OK	
	VDC/TCS	S/ABS	OK	OK	
	STRG		OK	OK	
	PRI	NT			
	MODE	BACK	LIGHT	COPY	PKIB9803E

"SELECT SYSTEM" screen	"CAN DIAG SUP- PORT MNTR" screen	Description	Present	Past
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
RAS/HICAS	VDC/TCS/ABS	S/ABS Make sure of normal reception from VDC/TCS/ABS control unit.		OK/0/1 – 39/–
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN/-	

Display Results (Present)

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

Display Results (Past)

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

DESCRIPTION OF "C FOR DRIVER SEAT C		PPORT MNTR" SCREEN	(Example)	CAN DIAG SUF AUTO DRI ITRANSMIT DIAG METER/M&A BCM/SEC TCM PRINT MODE BACK	VE POS. PRSNT F OK OK OK	AST - OK OK OK	PKIC4864E	
	DIAG SUPPORT INTR" screen	Description		Pres	ent		Past	-

screen	MNTR" screen	Decemption	1 rooont	i dot	
	TRANSMIT DIAG	TRANSMIT DIAG is not diagnosed.	_		Е
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/-		F
	ТСМ	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 $0 \rightarrow 1 \rightarrow 2...38 \rightarrow 39$ 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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MODE BACK LIGHT COPY

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN CAN DIAG SUPPORT MNTR (Example) FOR IPDM E/R IPDM E/R PRSNT PAST TRANSMIT DIAG OK OK ECM OK OK BCM/SEC OK OK PRINT

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

Display Results (Present)

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

Display Results (Past)

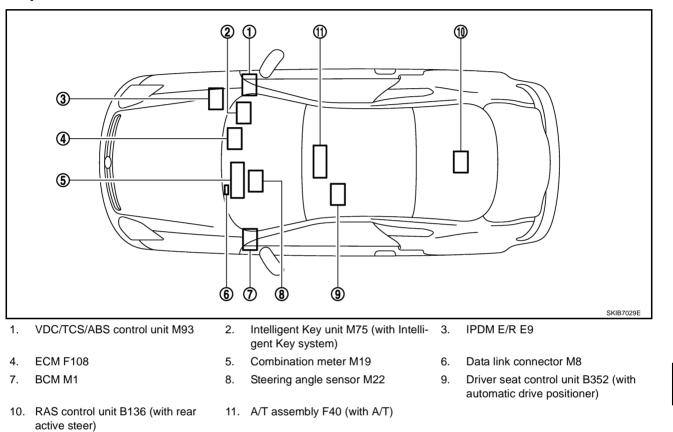
- OK: Normal
- 0: There is malfunction now.
- 1 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It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

CAN COMMUNICATION

System Description

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

Component Parts and Harness Connector Location



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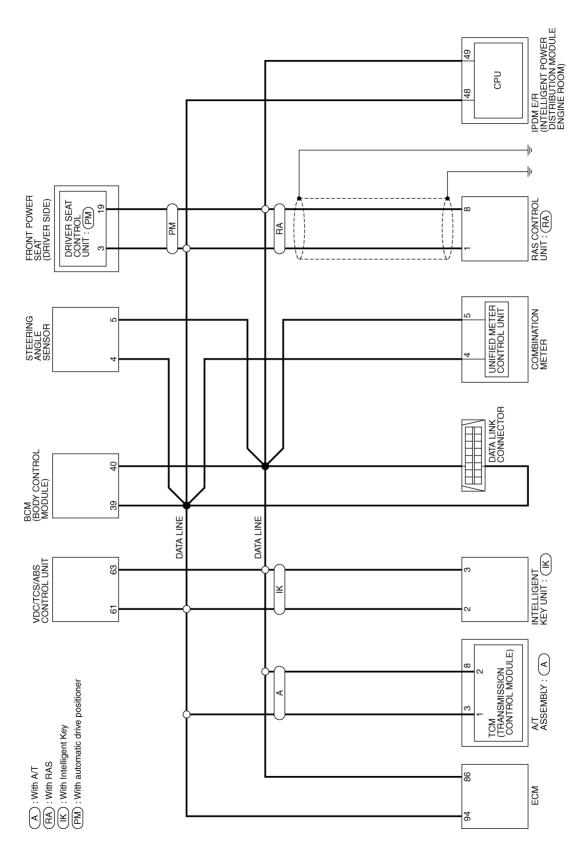
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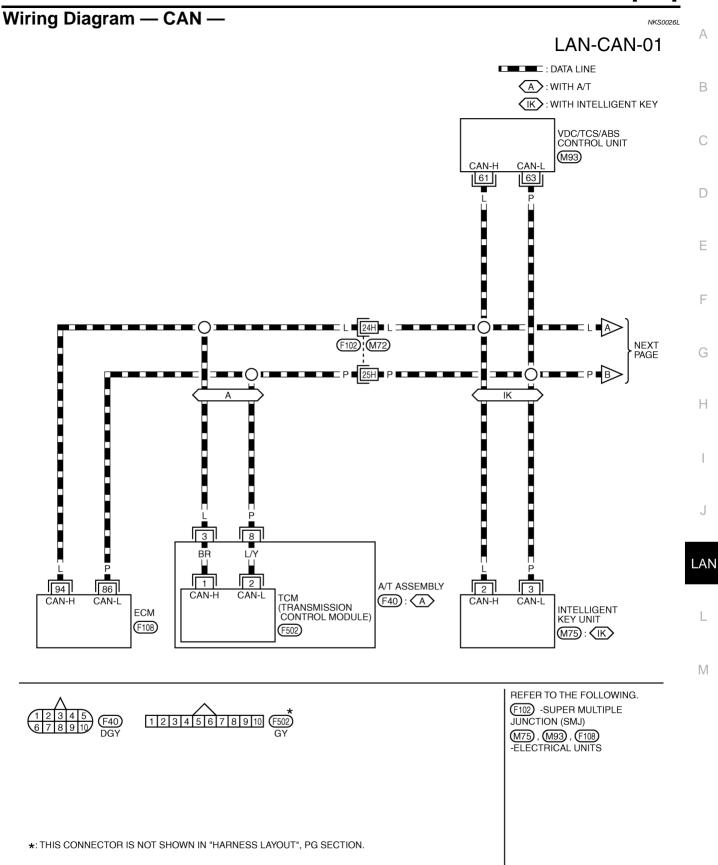
Schematic

NKS0026K



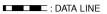
TKWM3650E

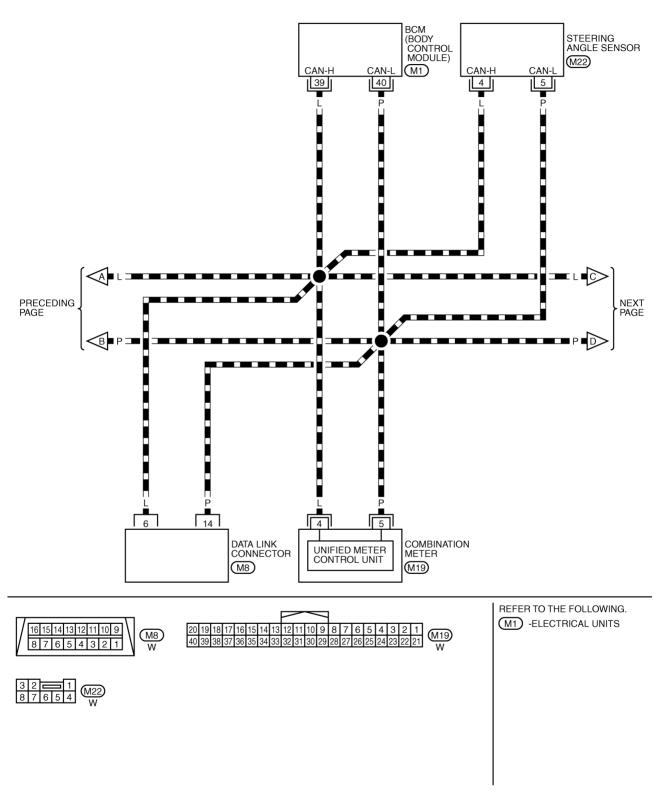
[CAN]



TKWM3651E

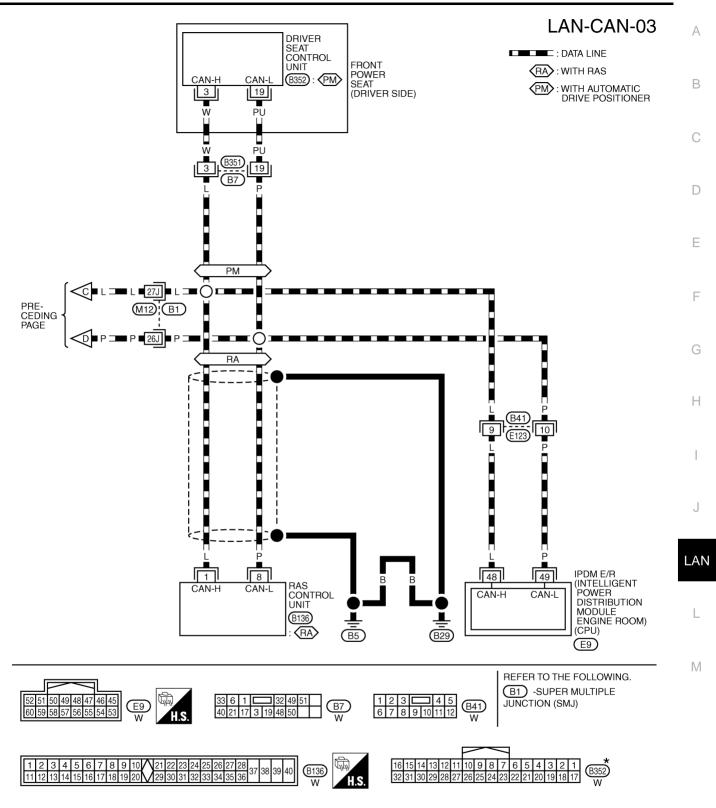
LAN-CAN-02





TKWM3652E

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

TKWM3653E

CAN Communication Unit

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

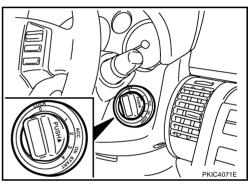
•	0,		51		0					
Body type		Coupe								
Axle		2WD								
Engine				VQ3	35DE					
Transmission		Ν	1/T			А	/T			
Brake control				V	DC					
Intelligent Key system						Х		Х		
Rear active steer			Х	Х			Х	Х		
Automatic drive positioner		Х		Х		Х		Х		
CAN system type	1	2	3	4	5	6	7	8		
CAN system trouble diagnosis	LAN-33	LAN-45	LAN-59	<u>LAN-74</u>	LAN-90	LAN-104	LAN-121	LAN-138		

X: Applicable

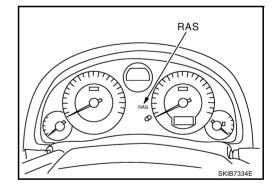
NOTE:

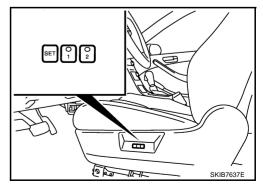
Confirming the presence of the following items helps to identify CAN system type.

• Model with Intelligent Key system



Model with rear active steer





Model with automatic drive positioner

NKS000NE

TYPE 1/TYPE 2/TYPE 3/TYPE 4 System Diagram

Type 1

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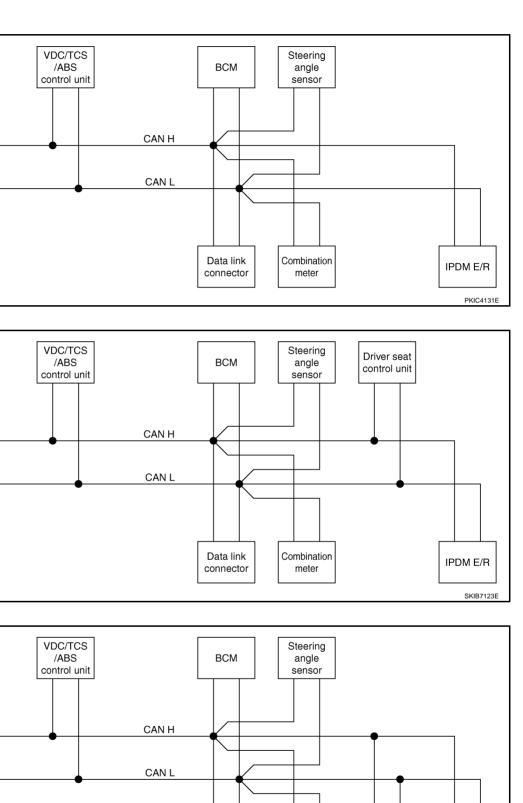
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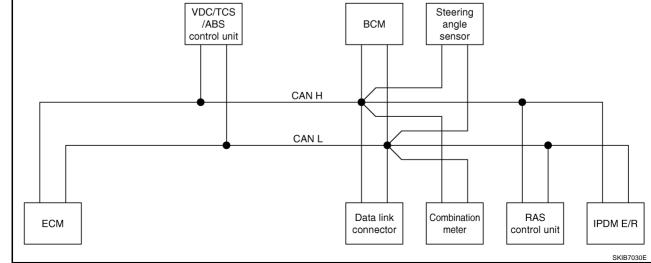


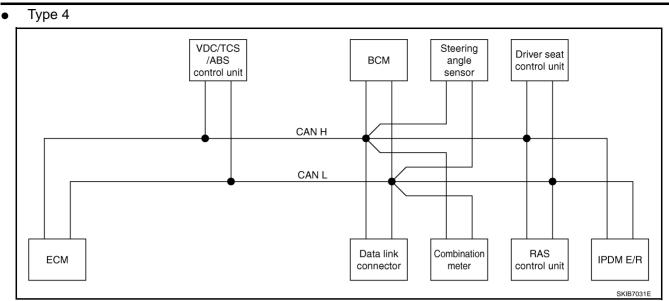
Type 2

ECM

ECM

Type 3 •





Input/output Signal Chart

T: Transmit R: Receive

Signals	ECM	VDC/ TCS/ ABS control unit	Combi- nation meter	ВСМ	Steering angle sensor	Driver seat con- trol unit	RAS control unit	IPDM E/ R
A/C compressor request signal	Т							R
Accelerator pedal position signal	Т	R						
ASCD CRUISE lamp signal	Т		R					
ASCD SET lamp signal	Т		R					
Cooling fan motor operation signal	Т							R
Engine coolant temperature signal	Т		R					
Engine speed signal	Т	R	R				R	
Engine status signal	Т			R				
Malfunction indicator lamp signal	Т		R					
		Т	R				R	
/ehicle speed signal	R		Т	R		R		
Fuel level sensor signal	R		Т					
Parking brake switch signal			Т	R				
Seat belt buckle switch signal			Т	R				
A/C switch signal	R			Т				
Blower fan motor switch signal	R			Т				
Buzzer output signal			R	Т				
Door switch signal			R	Т		R		R
Front fog lights request signal				Т				R
Front wiper request signal				Т				R
High beam request signal			R	Т				R
Horn chirp signal				Т				R
Ignition switch signal				Т				R
Key fob door unlock signal				т		R		
Key switch signal				т		R		
Low beam request signal				Т				R

Revision: 2006 August

Signals	ECM	VDC/ TCS/ ABS control unit	Combi- nation meter	BCM	Steering angle sensor	Driver seat con- trol unit	RAS control unit	IPDM E/ R
Position lights request signal			R	Т				R
īre pressure signal			R	Т				
urn indicator signal			R	Т				
Rear window defogger switch signal				Т				R
leep request 2 signal				Т				R
heft warning horn request signal				Т				R
teering angle sensor signal		R			Т		R	
AS signal		R					Т	
ront wiper stop position signal				R				Т
ligh beam status signal	R							Т
ood switch signal				R				Т
ow beam status signal	R							Т
il pressure switch signal			R					Т
ear window defogger control signal	R							Т
	DC/TCS /ABS ntrol unit		BC	и	Steering angle sensor			
		CAN H						
	•		-					

Data link

connector

Combination

meter

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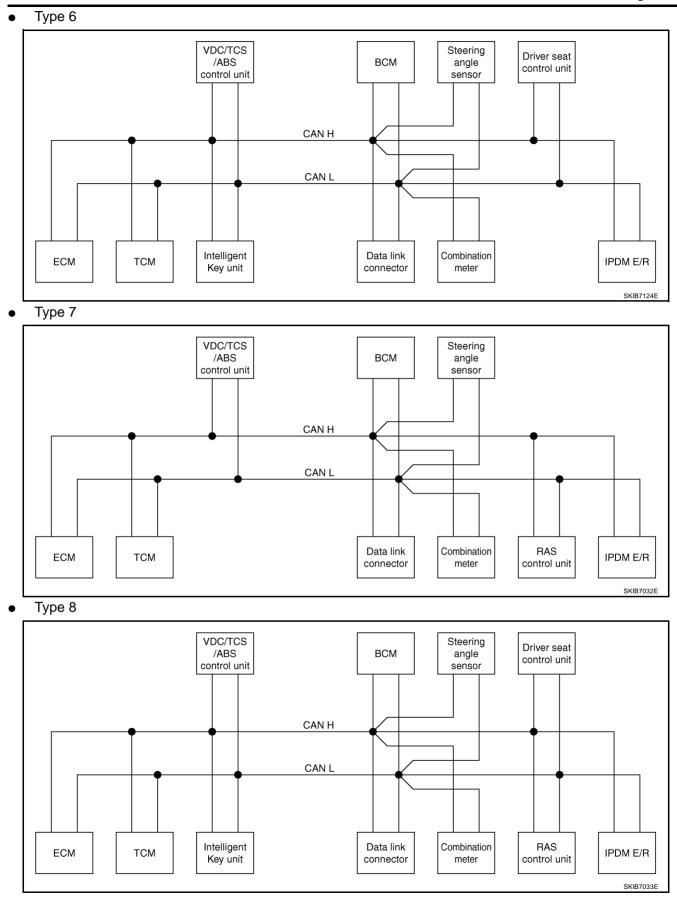
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ECM

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IPDM E/R

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Input/output Signal Chart

								T: Transmit R: Rec		
Signals	ECM	ТСМ	Intelli- gent Key unit	VDC/ TCS/ ABS control unit	Combi- nation meter	BCM	Steer- ing angle sensor	RAS contorl unit	Driver seat 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 motor operation sig- nal	Т									R
Engine coolant temperature sig- nal	Т				R					
Engine speed signal	Т	R	R	R	R			R		
Engine status signal	Т					R				
Malfunction indicator lamp signal	Т				R					
A/T CHECK indicator lamp sig- nal		Т			R					
A/T position indicator signal		Т		R	R				R*	
A/T self-diagnosis signal	R	Т								
A/T shift schedule change demand signal		Т		R						
Manual mode indicator signal		Т			R					
Output shaft revolution signal	R	Т								
Turbine revolution signal	R	Т								
Door lock/unlock/trunk open request signal			т			R				
Hazard and horn request signal			Т			R				
Panic alarm request signal			Т			R				
Power window open request sig- nal			Т			R				
Vehicle speed signal				Т	R			R		
venicie opeeu orginal	R	R	R		Т	R			R	
Fuel level sensor signal	R				Т					
Manual mode shift down signal		R			Т					
Manual mode shift up signal		R			Т					
Manual mode signal		R			Т					
Not manual mode signal		R			Т					
Parking brake switch signal					Т	R				
Seat belt buckle switch signal					Т	R				
Snow mode switch signal	R				Т					
Stop lamp switch signal		R			Т					
A/C switch signal	R					Т				

Revision: 2006 August

Signals	ECM	ТСМ	Intelli- gent Key unit	VDC/ TCS/ ABS control unit	Combi- nation meter	BCM	Steer- ing angle sensor	RAS contorl unit	Driver seat control unit	IPDM E/R
Blower fan motor switch signal	R					Т				
Buzzer output signal					R	Т				
Door lock/unlock status signal			R			Т				
Door switch signal			R		R	Т			R	R
Front fog lights request signal						Т				R
Front wiper request signal						Т				R
High beam request signal					R	Т				R
Horn chirp signal						Т				R
Ignition switch signal						Т				R
Key fob door unlock signal						Т			R	
Key switch signal						Т			R	
Low beam request signal						Т				R
Position lights request signal					R	Т				R
Rear window defogger switch signal						Т				R
Sleep request 2 signal						Т				R
Theft warning horn request sig- nal						Т				R
Tire pressure signal					R	Т				
Turn indicator signal					R	Т				
Steering angle sensor signal				R			Т	R		
RAS signal				R				Т		
Front wiper stop position signal						R				Т
High beam status signal	R									Т
Hood switch signal						R				Т
Low beam status signal	R									Т
Oil pressure switch signal					R					Т
Rear window defogger control signal	R									Т

*: P range and R range only

CAN SYSTEM (TYPE 1)

	[CAN]	
CAN SYSTEM (TYPE 1)	PFP:23710	
Component Parts and Harness Connector Location	NKS0026M	А
Refer to LAN-21, "Component Parts and Harness Connector Location".		
Schematic	NKS0026N	В
Refer to LAN-22, "Schematic".		
Wiring Diagram — CAN —	NKS00260	С
Refer to LAN-23, "Wiring Diagram — CAN —".		
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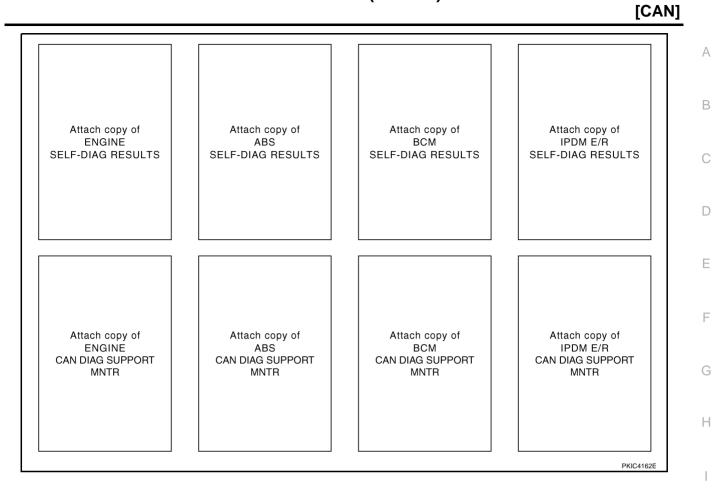
Check Sheet

NOTE:

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

				CAN	DIAG SU	PPORT N	INTR diagnosis				
SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS			STRG	IPDM E/R		B RESULTS
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
ABS	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	—	-	CAN COMM CIRCUIT (U1000)	_
Symptoms	:										
		S	Attach co ELECT S	opy of YSTEM				Attao SELEC	ch copy of CT SYSTE	M	

CAN SYSTEM (TYPE 1)



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CHECK SHEET RESULTS (EXAMPLE)

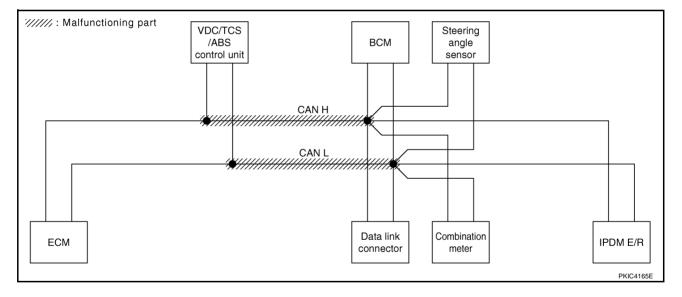
NOTE:

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

Case 1

Check harness between VDC/TCS/ABS control unit and data link connector. Refer to <u>LAN-158</u>, "Inspection <u>Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit</u>".

[CAN	DIAG SU	PPORT M	INTR			1	
				0,	01/10/00	Receive					
SELECT SY:	STEM screen	Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R	- SELF-DIAG RESULTS	
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMIN CIRCUIT (UN01)
ABS	_	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN		-	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	_
											PKIC4274E



CAN SYSTEM (TYPE 1)

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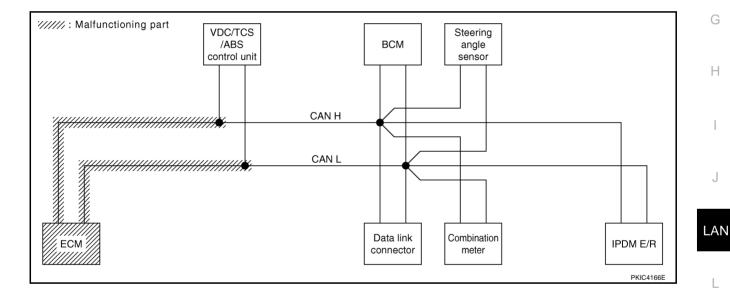
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Case 2

Check ECM circuit. Refer to LAN-160, "ECM Circuit Inspection" .

$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Instant Instant Instant Instant Instant Instant Instant diagnosis diagnosis ECM VDC/TCS METER BCM STRG IPDM ENGINE - UNKWN - UNKWN UNKWN UNKWN - UNKWN CAN COMM CIRCUIT (U1000) ABS - NG UNKWN UNKWN - UNKWN - UNKWN PCM No indication NG UNKWN UNKWN - UNKWN - CAN COMM CIRCUIT (U1000)
Engine Image: Constraint of the state of
BCIVI NO INDICATION NO ON TANK ON TANK ON TANK (U1000)
IPDM E/R No indication - UNKWN - - UNKWN - - CAN COMY CIRCUIT (UN00) -

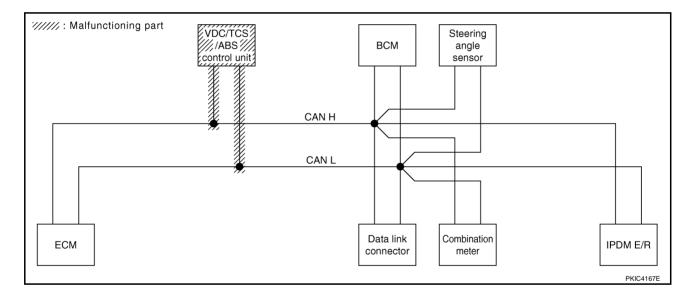


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Check VDC/TCS/ABS control unit circuit. Refer to LAN-162, "VDC/TCS/ABS Control Unit Circuit Inspection" .

Receive diagnosis SELECT SYSTEM screen Initial diagnosis Transmit diagnosis Receive diagnosis SELF-DIAG RESULT ENGINE - - UNKWN - UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT CA	LTS
ENGINE – – UNKWN – UNKWN UNKWN UNKWN – UNKWN CAN COMM CIRCUIT CAN CO	
	MN CIRCUI
ABS - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMY CIRCUIT	_
BCM No indication NG UNKWN UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U1000)	_
IPDM E/R No indication - UNKWN - - CAN COMM CIRCUIT (U1000)	_

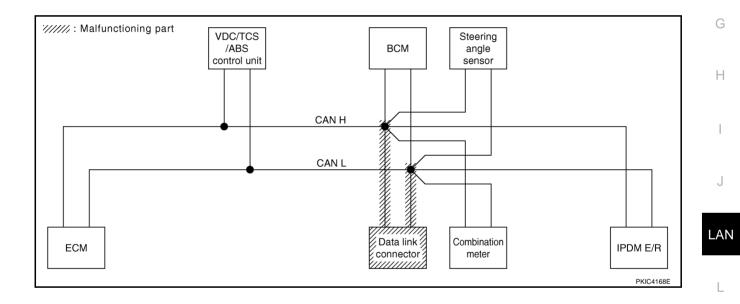


CAN SYSTEM (TYPE 1)

Case 4

Check data link connector circuit. Refer to LAN-162, "Data Link Connector Circuit Inspection" .

				CAN	DIAG SU	PPORT N	1NTR				
SELECT SYS	TEM scroon	Initial	Tronomit			Receive	diagnosis			SELF-DIAG	
SELECT STS		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R	SELI-DIAC	I NESOEIS
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	I	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_



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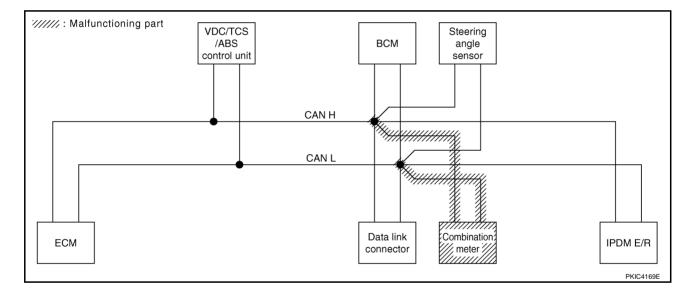
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Check combination meter circuit. Refer to LAN-163, "Combination Meter Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
	STEM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	
				ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R	SELI-DIAC	I NEGOEIG
ENGINE	_	-	UNKWN	-	UNKWN		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
ABS	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	Ι	UNKWN	UNKWN	_	Ι	UNKWN	Ι	Ι	CAN COMM CIRCUIT (U1000)	_
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CAN SYSTEM (TYPE 1)

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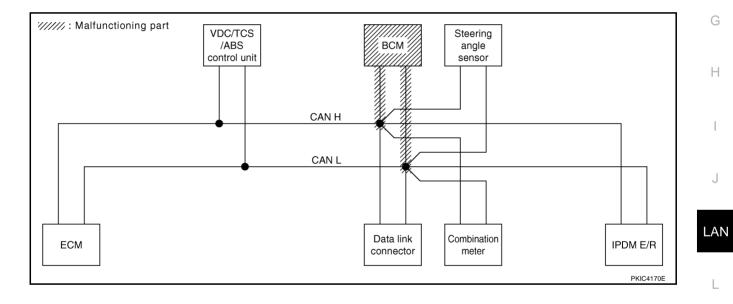
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Case 6

Check BCM circuit. Refer to LAN-163, "BCM Circuit Inspection" .

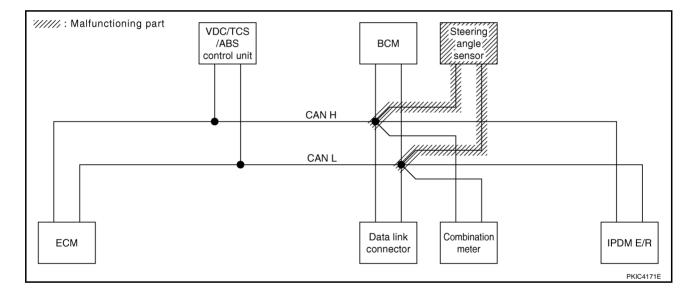
ABS - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) - - - - CAN COMM CIRCUIT (U1000) - - - - CAN COMM CIRCUIT (U1000) - - - - - CAN COMM CIRCUIT (U1000) -					CAN	DIAG SU	PPORT N	1NTR				
diagnosis diagnosis ECM VDC/TCS /ABS METER /M&A BCM /SEC STRG IPDM E/R ENGINE - UNKWN - UNKWN UNKWN - UNKWN CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) ABS - NG UNKWN UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) - BCM No indication NG UNKWN UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) -		STEM scroop	Initial	Tronomit			Receive	diagnosis				
Engine - ONKWN ONKWN ONKWN ONKWN - ONKWN (U1000) (U1000) (U1001) ABS - NG UNKWN UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) - BCM No instration NG UNKWN UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) -					ECM				STRG			THEODERS
ABS - NG UNKWN UNKWN - UNKWN - UNKWN - BCM No indication NG UNKWN UNKWN - UNKWN - - UNKWN - -	ENGINE	-	_	UNKWN	—	UNKWN	UNKWN		_	UNKWN		CAN COMM CIRCUIT (UN01)
BCM No investion NG UNKWN UNKWN - UNKWN - UNKWN (U1000) -	ABS	-	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-		-
	всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN		_
	IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	-



M

Check steering angle sensor circuit. Refer to LAN-164, "Steering Angle Sensor Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
	STEM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
				ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		THEODERS
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	_	NG	UNKWN	UNKWN	-	UNKWN	Ι		-	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
											PKIC4280E

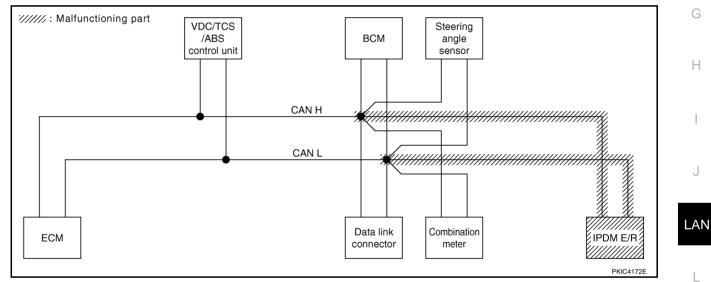


CAN SYSTEM (TYPE 1)

Case 8

Check IPDM E/R circuit. Refer to LAN-165, "IPDM E/R Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYS	STEM screen	Initial	Transmit			Receive	diagnosis			SELE-DIAG	RESULTS
OLLEOT OTC		diagnosis		ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R	GEEI DI/(C	
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ABS	_	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	I	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	—	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	_



Case 9

Check CAN communication circuit. Refer to LAN-166, "CAN Communication Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SV	STEM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	BESUITS
		diagnosis		ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		TIEGOEIG
ENGINE	_	_		—				-		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	_	M	UNKWN	UNKWN	-	UNKWN	-		-	CAN COMIN CIRCUIT (U N00)	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	_

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Case 10

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CAN	DIAG SU	PPORT N	INTR				
SELECT SY	STEM screen	Initial	Transmit			Receive	diagnosis			SELE-DIAG	RESULTS
OLLEOT OT		in in case		ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	-	UNKWN	-		UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	I	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_

Case 11

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CAN	DIAG SU	PPORT N	INTR				
SELECT SY	STEM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	BESULTS
		diagnosis		ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	_	-	-	-	_	-	CAN COMM CIRCUIT (UN00)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
										(01000)	

CAN SYSTEM (TYPE 2)

	[CAN]	
CAN SYSTEM (TYPE 2)	PFP:23710	
Component Parts and Harness Connector Location	NKS0026P	А
Refer to LAN-21, "Component Parts and Harness Connector Location".		
Schematic	NKS0026Q	В
Refer to LAN-22, "Schematic".		
Wiring Diagram — CAN —	NKS0026R	С
Refer to LAN-23, "Wiring Diagram — CAN —".		
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Check Sheet

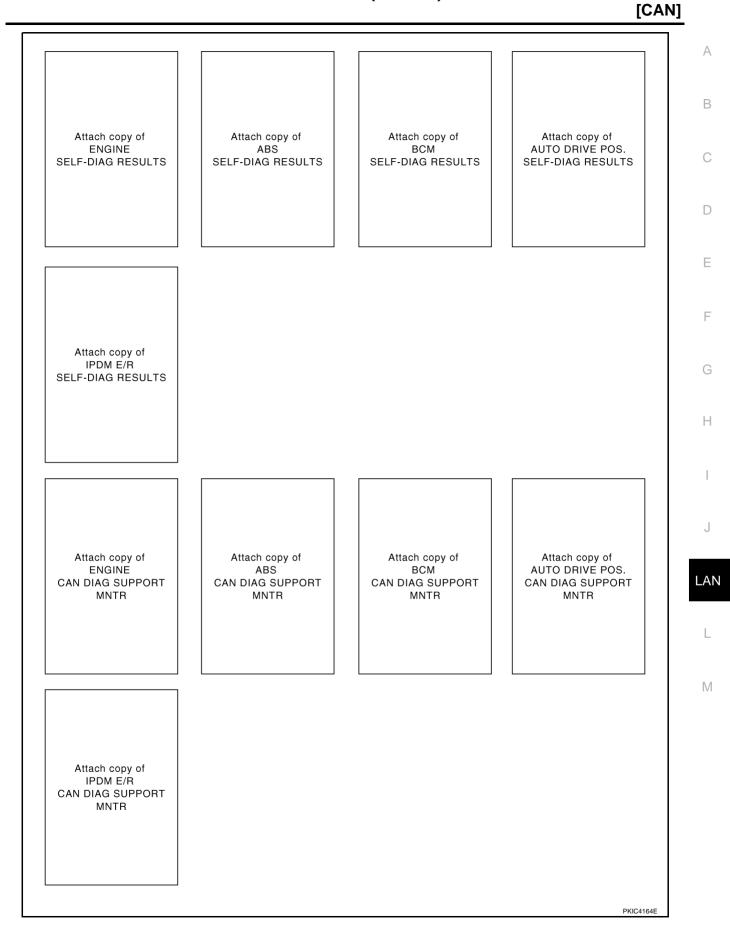
NOTE:

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

				CA	N DIAG SU	PPORT MN				4	
SELECT SYSTE	EM screen	Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS		diagnosis BCM /SEC	STRG	IPDM E/R	- SELF-DIAC	G RESULTS
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCI (U1001)
BS	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	
СМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
UTO DRIVE POS.	No indication	_	_	_	_	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
PDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
Symptoms :											
symptoms .											
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						Atta	ch copy o	f			
		S	ELECT S	YSTEM				SELE	CT SYSTE	EM	

CAN SYSTEM (TYPE 2)



CHECK SHEET RESULTS (EXAMPLE)

NOTE:

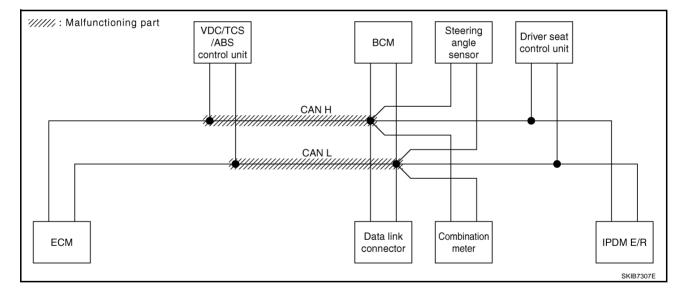
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

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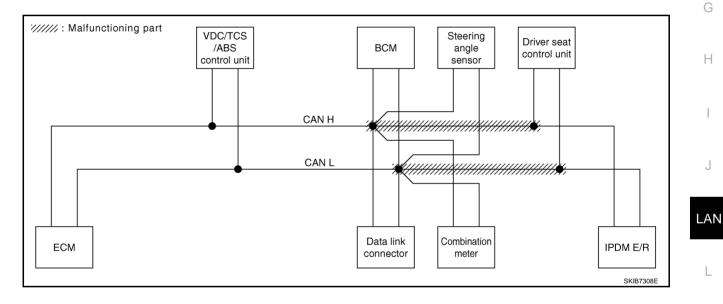
Check harness between VDC/TCS/ABS control unit and data link connector. Refer to <u>LAN-158</u>, "Inspection <u>Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit</u>".

			1	CA	AN DIAG SU	-					
SELECT SYSTE	EM screen	Initial	Transmit				diagnosis I			SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	_	UNKWN	-	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
ABS	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	_	-	-	UNKWN	UNKWN	—	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-



Check harness between data link connector and driver seat control unit. Refer to <u>LAN-158</u>, "Inspection A <u>Between Data Link Connector and Driver Seat Control Unit Circuit</u>".

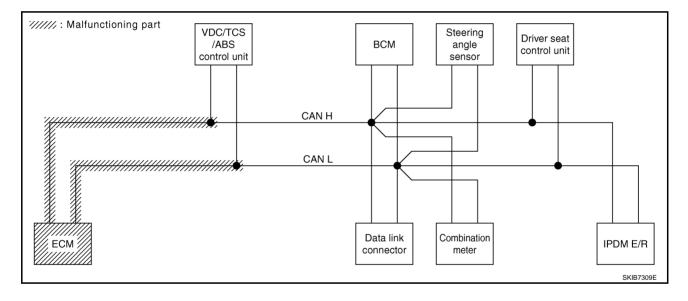
				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTE	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	G RESULTS
		diagnosis	diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	I	UNKWN	—	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ABS	—	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	_	—	CAN COMM CIRCUIT (U1000)	-



M

Check ECM circuit. Refer to LAN-160, "ECM Circuit Inspection"

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTE	=M screen	1	T			Receive	diagnosis			SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	-	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U N01)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	_	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	_	CAN COMM CIRCUIT (U 1000)	_



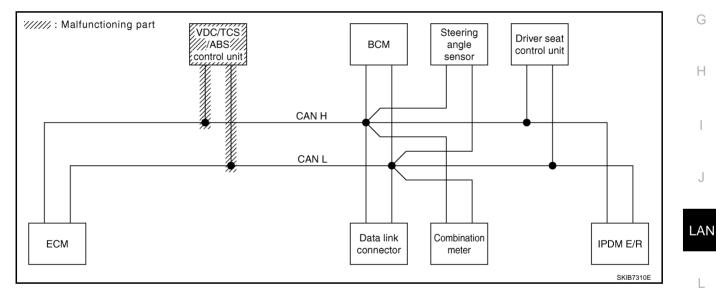
CAN SYSTEM (TYPE 2)

Case 4

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Check VDC/TCS/ABS control unit circuit. Refer to LAN-162, "VDC/TCS/ABS Control Unit Circuit Inspection".

				C/	AN DIAG SU	PPORT MN	TR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAC	RESULTS
		diagnosis	diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ABS	_	V	UNKWN	UNKWN	-	UNKWN	_	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	—	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
DM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_		_

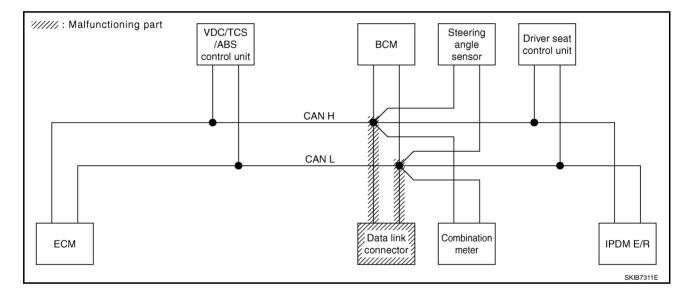


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Check data link connector circuit. Refer to LAN-162, "Data Link Connector Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTE	M screen	Initial	Troponit			Receive	diagnosis			SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	1	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-



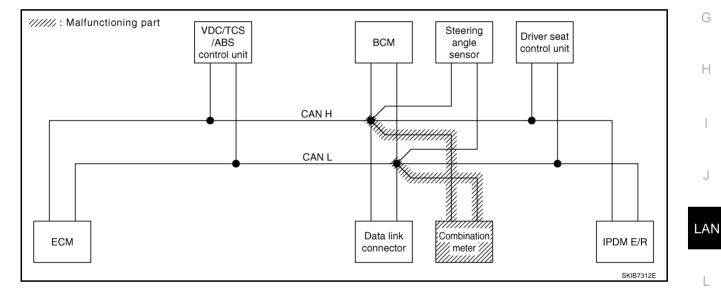
CAN SYSTEM (TYPE 2)

Case 6

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Check combination meter circuit. Refer to LAN-163, "Combination Meter Circuit Inspection" .

				CA	AN DIAG SU						
SELECT SYSTE	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	I	UNKWN	_	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
ABS	-	NG	UNKWN	UNKWN	—	UNKWN	1	UNKWN	_	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	Ι	—	UNKWN	CAN COMM CIRCUIT (U1000)	1
AUTO DRIVE POS.	No indication	-	-	-	—	UNKWN	UNKWN	—	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	—



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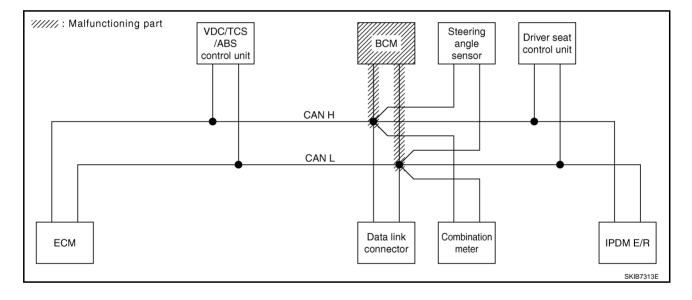
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Check BCM circuit. Refer to LAN-163, "BCM Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTE	- M screen	Initial	Transmit			Receive	diagnosis			SELE-DIAG	RESULTS
		diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	1	UNKWN	-	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No invication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_		_	-	CAN COMM CIRCUIT (U 1000)	_

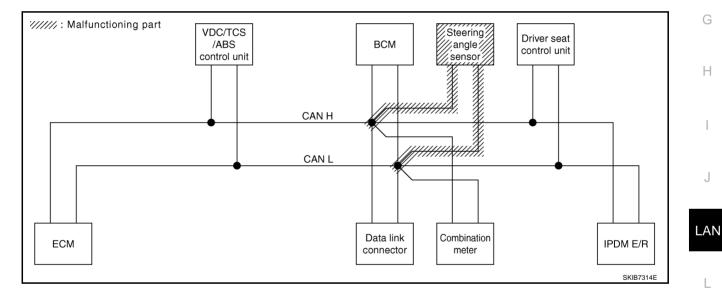


CAN SYSTEM (TYPE 2)

Case 8

Check steering angle sensor circuit. Refer to LAN-164, "Steering Angle Sensor Circuit Inspection" .

				CA	N DIAG SU	PPORT MN	TR				
SELECT SYSTE	Miscreen	1-141-1	Transit			Receive	diagnosis	_		SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	-	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	Ι	-	Ι	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	—	-	UNKWN	-	—	CAN COMM CIRCUIT (U1000)	-



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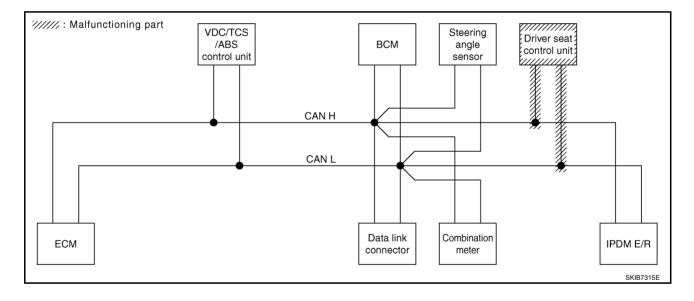
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Check driver seat control unit circuit. Refer to LAN-165, "Driver Seat Control Unit Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTE	-M screen	Initial	Transmit			Receive	diagnosis	-		SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	I	UNKWN		UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
ABS	-	NG	UNKWN	UNKWN	_	UNKWN	Ι	UNKWN		CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	Ι	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-



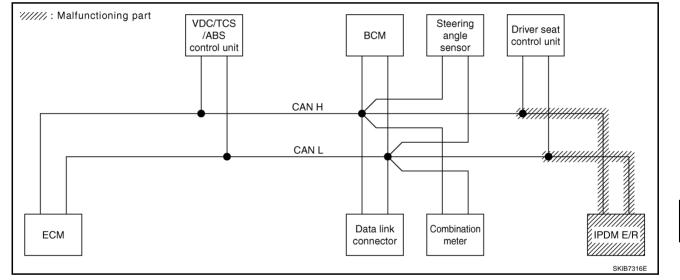
CAN SYSTEM (TYPE 2)

Case 10

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Check IPDM E/R circuit. Refer to LAN-165, "IPDM E/R Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYST	EM screen	1-14-1	Terrar and the			Receive	diagnosis			SELE-DIAC	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U N01)
ABS	_	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	—	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS	No indication	-	—	—	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_



Case 11

Check CAN communication circuit. Refer to LAN-166, "CAN Communication Circuit Inspection" .

			CA	AN DIAG SU	PPORT MN	TR				
Miscreen	1-141-1	Transit			Receive	diagnosis			SELE-DIAG	BESULTS
	diagnosis	diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
_	Ι	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 1001)
Ι	¥	UNKWN	UNKWN	-	UNKWN	_	UNKWN	Ι	CAN COMM CIRCUIT (U 1000)	_
No indication	NG	UNKWN	UNKWN	-	UNKWN	—	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
No indication	-	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U N00)	_
No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	-	CAN COMM CIRCUIT (U N00)	—
	No indication	Image: Additional and the second s	Initial Initial Initial Initial	Initial diagnosis Initial diagnosis ECM — — UNKWN — — Via UNKWN UNKWN No invisation NG UNKWN UNKWN	Initial diagnosis Initial diagnosis Initial diagnosis VDC/TCS /ABS — — UNXWN — UNXWN — VDC/TCS UNXWN — UNXWN — VDC/TCS UNXWN UNXWN — No indication NG UNXWN UNXWN —	M screen Initial diagnosis Transmit diagnosis VDC/TCS METER //M&A — — UNKWN — UNKWN — VD UNKWN — UNKWN Mo insidation NG UNKWN UNKWN — UNKWN No insidation — — — — UNKWN	Initial diagnosis Initial diagnosis Initial diagnosis VDC/TCS METER /M&A BCM /SEC — — UNXWN — UNXWN UNXWN UNXWN UNXWN — VS UNXWN UNXWN — UNXWN — No involution NG UNXWN UNXWN — UNXWN — No involution NG UNXWN UNXWN — UNXWN —	M screen Initial diagnosis Transmit diagnosis VDC/TCS METER //M&A BCM //SEC STRG — — UNKWN — UNKWN UNKWN UNKWN — Meter //MAA //SEC STRG — — UNKWN — UNKWN UNKWN UNKWN — UNKWN — No institution NG UNKWN UNKWN — UNKWN — UNKWN — No institution — — — UNKWN — UNKWN — —	M screen Initial diagnosis Transmit diagnosis VDC/TCS METER //M&A BCM STRG IPDM E/R - - UNXWN - UNXWN UNXWN UNXWN UNXWN - UNXWN - VS UNXWN UNXWN UNXWN UNXWN UNXWN - UNXWN - VS UNXWN UNXWN - UNXWN - UNXWN - No invitation NG UNXWN UNXWN - UNXWN - UNXWN No invitation - - - UNXWN - - -	Initial diagnosis Transmit diagnosis Transmit diagnosis VDC/TCS METER //M&A BCM //SEC STRG IPDM //E/R SELF-DIAG - - UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U1000) - VI UNKWN - UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U1000) No invitation NG UNKWN UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U1000) No invitation NG UNKWN UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U1000) No invitation - - - UNKWN - - CAN COMM CIRCUIT (U1000) No invitation - - - UNKWN - - CAN COMM CIRCUIT (U1000) No invitation - - - UNKWN - - CAN COMM CIRCUIT (U1000) No invitation - - - UNKWN - - CAN COMM CIRCUIT (U1000)

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

SELECT SYSTEM screen Initial diagnosis Transmit diagnosis Receive diagnosis SELF-DIAG RE SELF-DIAG RE	ESULTS
diagnosis diagnosis ECM VDC/TCS METER BCM STPG IPDM	
ENGINE — — UNKWN — UNKWN UNKWN — UNKWN CARCUIT CA	N COMM CIRCUIT (U1001)
ABS - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT (U1000)	_
BCM No indication NG UNKWN UNKWN - UNKWN - UNKWN CIRCUIT (U1000)	_
AUTO DRIVE POS. No indication UNKWN UNKWN CAN COMM CIRCUIT (U1000)	-
IPDM E/R No indication - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000)	_

Case 13

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CA	N DIAG SU	PPORT MN	TR				
SELECT SYSTE	Miscreen	1-141-1	Transit			Receive	diagnosis			SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	_	UNKWN	—	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	—	NG	UNKWN	—	_		-		_	CAN COMM CIRCUIT (U N00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	_	_	_	UNKWN	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	1	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
											PKIC4297E

CAN SYSTEM (TYPE 3)

	[CAN]	
CAN SYSTEM (TYPE 3)	PFP:23710	
Component Parts and Harness Connector Location	NKS0026S	А
Refer to LAN-21, "Component Parts and Harness Connector Location".		
Schematic	NKS0026T	В
Refer to LAN-22, "Schematic".		
Wiring Diagram — CAN —	NKS0026U	С
Refer to LAN-23, "Wiring Diagram — CAN —".		
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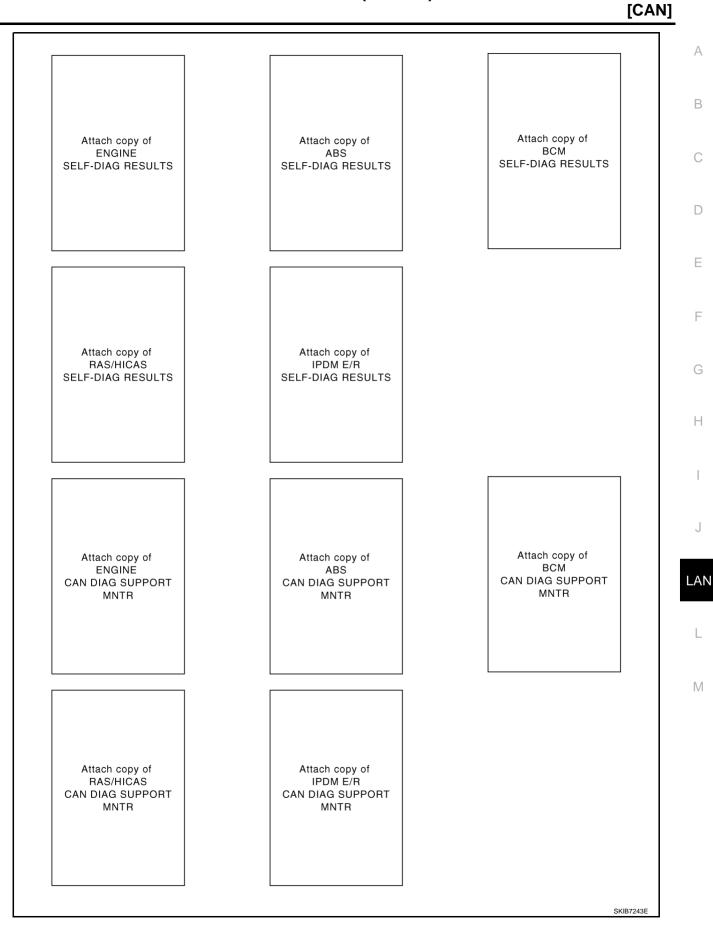
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Check Sheet

NOTE:

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

CAN SYSTEM (TYPE 3)



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CHECK SHEET RESULTS (EXAMPLE)

NOTE:

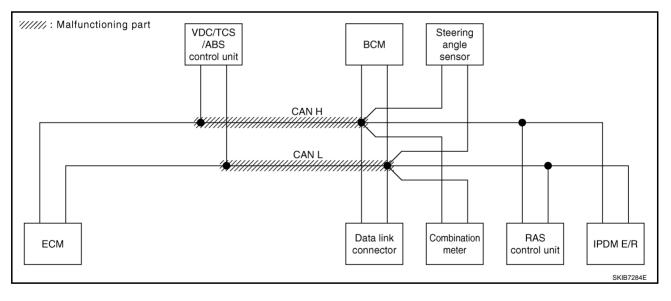
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

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Check harness between VDC/TCS/ABS control unit and data link connector. Refer to <u>LAN-158</u>, "Inspection <u>Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit</u>".

					CAN DI	AG SUPPO						
SELECT SYS	STEM screen	Initial	Transmit			Re	ceive diagno	osis			SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	_	UNKWN	-	UNKWN		UNKWN	-	-		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
	1											



CAN SYSTEM (TYPE 3)

[CAN]

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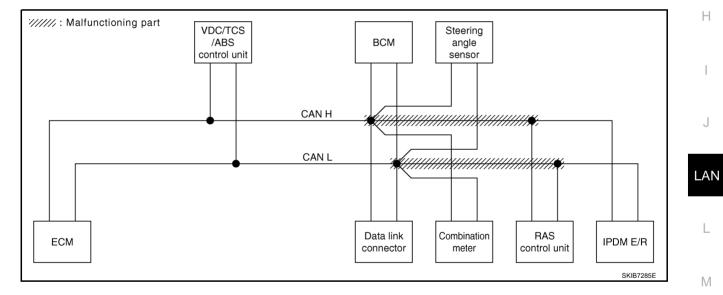
Case 2

Check harness between data link connector and RAS control unit. Refer to <u>LAN-159</u>, "Inspection Between <u>A</u> <u>Data Link Connector and RAS Control Unit Circuit"</u>.

					CAN DI	AG SUPPO	RT MNTR							
SELECT SYS	TEM screen	1.00.01	T			Red	ceive diagno	osis			SELE-DIAG	RESULTS		
012201 010		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	OLLI DINC	SELF-DIAG RESULTS		
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)		
ABS	_	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN		_	CAN COMM CIRCUIT (U1000)	_		
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_		
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U 1000)	-		
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	-	_	CAN COMM CIRCUIT	_		



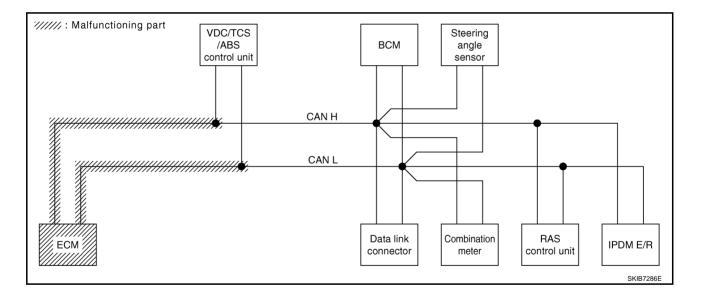
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Check ECM circuit. Refer to LAN-160, "ECM Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TEM screen	1.00.1	T			Re	ceive diagno	osis			SELE-DIAG	RESULTS
OLLEOT OTO		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	GEEF BIRC	
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	Ι	Ι	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	-

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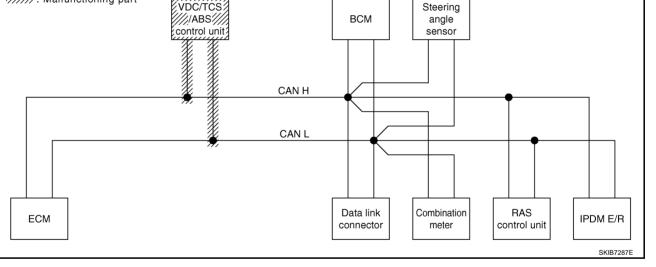
CAN SYSTEM (TYPE 3)

Case 4

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Check VDC/TCS/ABS control unit circuit. Refer to LAN-162, "VDC/TCS/ABS Control Unit Circuit Inspection".

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	STEM screen	Initial	Transmit			Red	ceive diagno	osis			SELF-DIAG	RESULTS
		diagnosis		ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	_	UNKWN	-	UNKWN	UNKWN	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ABS	-	V	UNKWN	UNKWN	I	UNKWN	I	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	1	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
												SKIB7247E
												SKIB7247E
	Ifunctioning	part		DC/TCS/	1					eering		SKIB7247E



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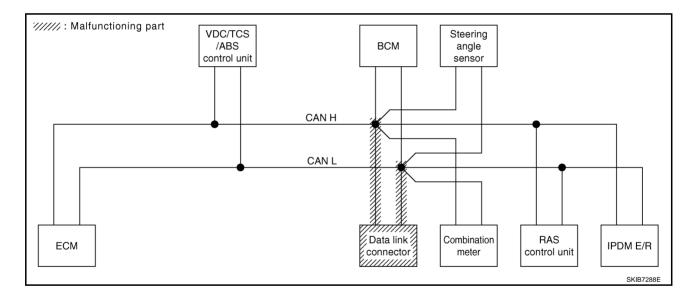
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Check data link connector circuit. Refer to LAN-162, "Data Link Connector Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TEM screen	1.00.01	T			Re	ceive diagno	osis			SELE-DIAG	RESULTS
OLLEOT OTO		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	GEEF BIRC	
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (U1001)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	—	UNKWN	UNKWN	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_

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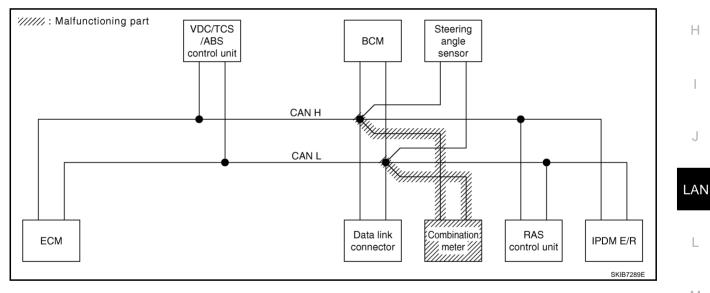


CAN SYSTEM (TYPE 3)

Case 6

Check combination meter circuit. Refer to LAN-163, "Combination Meter Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR	nsis			-	
SELECT SYS		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	-		UNKWN	_	UNKWN	UNKWN	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	-



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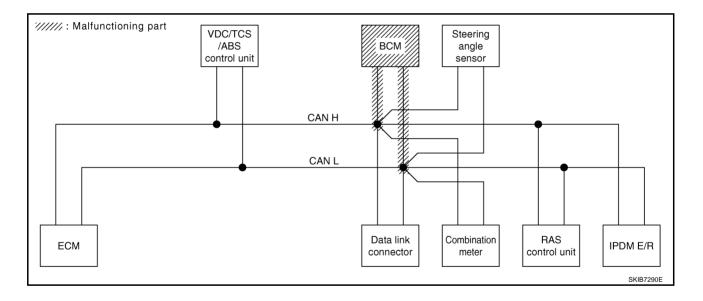
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Check BCM circuit. Refer to LAN-163, "BCM Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TEM screen					Re	ceive diagno	osis			SELF-DIAG	
OLLLOT OTO	LINISCIECT	Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMN CIRCUI (UN01)
ABS	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT	_

SKIB7250E



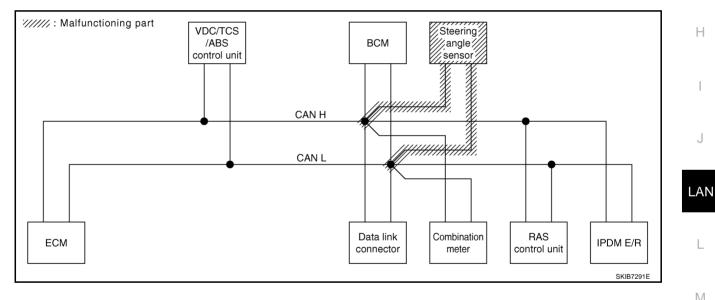
CAN SYSTEM (TYPE 3)

Case 8

Check steering angle sensor circuit. Refer to LAN-164, "Steering Angle Sensor Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TEM scroon					Re	ceive diagno	osis				RESULTS
SELECT STS		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SELF-DIAC	RESULIS
ENGINE	_	—	UNKWN	_	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN		UNKWN	-	_	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-





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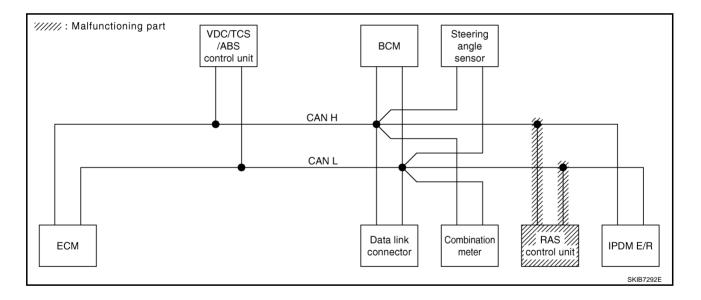
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Check RAS control unit circuit. Refer to LAN-164, "RAS Control Unit Circuit Inspection"

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	STEM scroon					Re	ceive diagno	osis				RESULTS
OLLEON ON		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	-	UNKWN	_	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN		-	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	UNKWN	_	-	UNKWN	-	_	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_

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CAN SYSTEM (TYPE 3)

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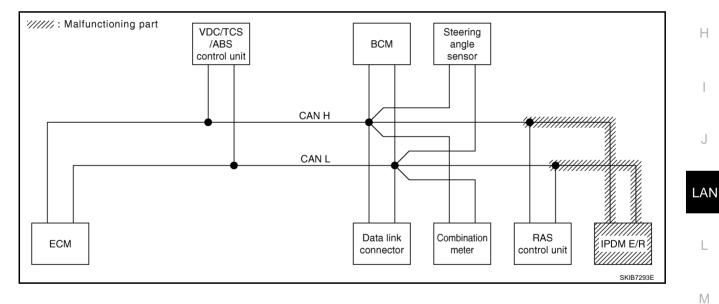
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Case 10

Check IPDM E/R circuit. Refer to LAN-165, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR Receive diagnosis								-		
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SELF-DIAG RESULTS	
ENGINE	_	_	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	_	_	CAN COMM CIRCUIT	_



Check CAN communication circuit. Refer to LAN-166, "CAN Communication Circuit Inspection" .

					CAN DI	AG SUPPO						
SELECT SYSTEM screen		Initial	Transmit	Receive diagnosis							SELF-DIAG RESULTS	
		Initial Transr diagnosis diagno		ECM	VDC/TCS METER /ABS /M&A		BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	—	UNKWN	_				-	-		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
ABS	-	V	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	_	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	_	CAN COMM CIRCUIT	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT	_

Case 12

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-167, "IPDM E/R Ignition Relay Circuit Inspection"

[CAN DI	AG SUPPC	RT MNTR					
SELECT SYSTEM screen		mua	Transmit	Receive diagnosis						SELF-DIAG RESULTS		
		diagnosis	diagnosis	ECM	/ABS	/M&A	/SEC	STRG	RAS	E/R		
ENGINE	-	—	UNKWN	-	UNKWN	UNKWN	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
ABS	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	-	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	—	UNKWN	UNKWN	UNKWN	_	-	UNKWN	-		CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	—	_	UNKWN	—	_	_	CAN COMM CIRCUIT (U1000)	_
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Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

					CAN DI	AG SUPPC	RT MNTR					
SELECT SYS	EM screen					Re	ceive diagno	osis			SELF-DIAG	
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	_	UNKWN	UNKWN	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	_	-	-	-	-	_	-	CAN COMM CIRCUIT (U 1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	—	-	CAN COMM CIRCUIT (U1000)	_

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	[CAN]
CAN SYSTEM (TYPE 4)	PFP:23710
Component Parts and Harness Connector Location	NKS0026V
Refer to LAN-21, "Component Parts and Harness Connector Location".	
Schematic	NKS0026W
Refer to LAN-22, "Schematic".	
Wiring Diagram — CAN —	NKS0026X
Refer to LAN-23, "Wiring Diagram — CAN —".	

Check Sheet

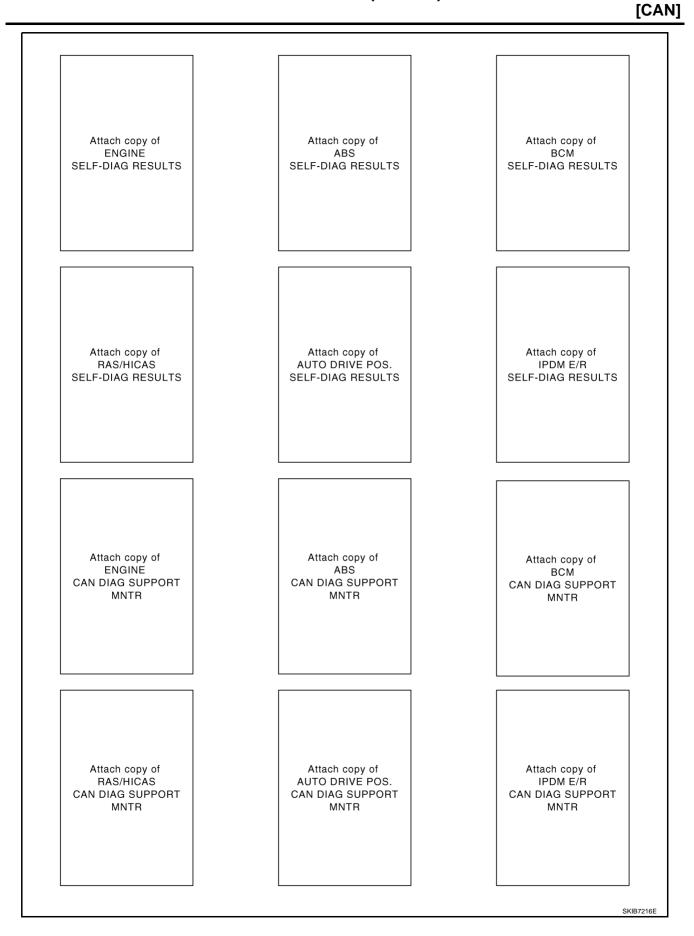
NOTE:

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

SELECT SYSTEM some CAN DIAG SUPPORT MITTE SELECT SYSTEM some Initial angenetic diagnosis ECM V/OCTCS METER BCcM STRG RAS E/PDM SELE-DIAG RESULTS NGINE - - UNKWN - UNKWN UNKWN - - UNKWN CAN COMM CIRCUIT (U100) - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - 0.00000 - - 0.00000 - 0.00000 - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.00000 - - 0.000000 - -		t table	1			0.441 -	10 011222					1	
SELECT SYSTEM Screen Initial diagnosis Transmit diagnosis ECM VDC/TCS /ABS METER M&X BCM /SEC STRG RAS IPDM E/R SELI-DIAG RESULTS NGINE - - UNKWN - UNKWN - - UNKWN CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) - CAN COMM CIRCUIT (U1000) - - - 0.0000 - - 0.0000 - - 0.0000 0.0000 - 0						CAN DI			osis				
Vertice Image: Control in the control in	SELECT SYST				ECM		METER	BCM		RAS			
LD INC UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN Image: Constraint of the constr	NGINE	—	-	UNKWN	_	UNKWN	UNKWN	UNKWN	-	_	UNKWN	(U1000)	(U1001)
CM No indication NG UNKWN UNKWN - UNKWN - - UNKWN GAN COMM CIRCUIT (U1000) - AS/HICAS No indication - UNKWN UNKWN UNKWN - - UNKWN CAN COMM CIRCUIT (U1000) - TO DRIVE POS. No indication - - - UNKWN UNKWN - - CAN COMM CIRCUIT (U1000) - DM E/R No indication - UNKWN UNKWN - - - CAN COMM CIRCUIT (U1000) - DM E/R No indication - UNKWN UNKWN - - - CAN COMM CIRCUIT (U1000) - Symptoms : - - UNKWN - - - CAN COMM CIRCUIT (U1000) - Attach copy of - - UNKWN - - - CAN COMM CIRCUIT (U1000) -	3S	_	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ActricAs No indication UNKWN UNKWN CAN COMM CIRCUIT TO DRIVE POS. No indication - UNKWN UNKWN CAN COMM CIRCUIT DM E/R No indication - UNKWN UNKWN CAN COMM CIRCUIT Symptoms : Attach copy of Attach copy of	см	No indication	NG	UNKWN	UNKWN	-	UNKWN	—	_	_	UNKWN		_
Introduction - <t< td=""><td>AS/HICAS</td><td>No indication</td><td>-</td><td>UNKWN</td><td>UNKWN</td><td>UNKWN</td><td>_</td><td>_</td><td>UNKWN</td><td>_</td><td>_</td><td></td><td>-</td></t<>	AS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_		-
Symptoms :	TO DRIVE POS.	No indication	-	-	_	_	UNKWN	UNKWN	_	_	_		-
Attach copy of Attach copy of	DM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	_	_		-
Attach copy of SELECT SYSTEM													
SELECT SYSTEM				۵#+	ach conv	of				Attac	a conv of		
				SELE	CT SYS	ΓEM				SELEC	TSYSTE	М	
													SKIB7215E

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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 VDC/TCS/ABS control unit and data link connector. Refer to LAN-158, "Inspection Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYST	TFM screen	Initial	Transmit			Re	ceive diagno	osis			SELF-DIAG	BESUITS
		diagnosis		ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	UNKWN	_		-		UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN		UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
AUTO DRIVE POS.	No indication	-	—	-	_	UNKWN	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication		— UNKWN		_	UNKWN —	UNKWN UNKWN	_	_	_	CAN COMM CIRCUIT	
							_				CAN COMM CIRCUIT (U1000)	_
	No indication	_	UNKWN	DC/TCS			UNKWN			eering	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN				UNKWN		St		CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	DC/TCS /ABS			UNKWN		St	eering angle	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) Driver seat	_
IPDM E/R	No indication	_	UNKWN	DC/TCS /ABS					St	eering angle	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) Driver seat	_
IPDM E/R	No indication	_	UNKWN	DC/TCS /ABS					St	eering angle	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) Driver seat	_
IPDM E/R	No indication	_	UNKWN	DC/TCS /ABS					St	eering angle	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) Driver seat	_

Data link

connector

Combination

meter

RAS

control unit

ECM

IPDM E/R

SKIB7231E

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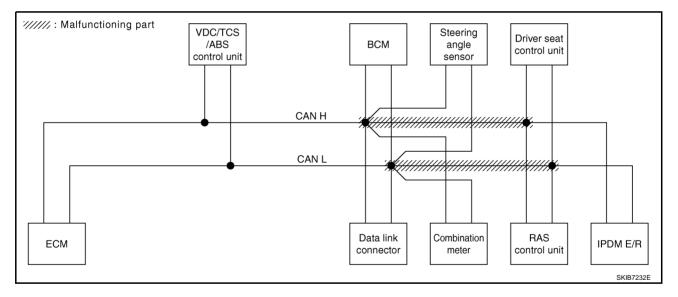
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Check harness between data link connector and RAS control unit. Refer to <u>LAN-159</u>, "Inspection Between <u>Data Link Connector and RAS Control Unit Circuit</u>".

					CAN DI	AG SUPPO						
SELECT SYS	TFM screen	Initial	Transmit		-	Re	ceive diagno	osis	-		SELF-DIAG	BESULTS
		diagnosis	diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	_	UNKWN	-	UNKWN	UNKWN	UNKWN	—	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
AUTO DRIVE POS.	No indication	_	_	-	_	UNKWN	UNKWN	-	_	_	CAN COMM CIRCUIT	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT	-



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Case 3

Check ECM circuit. Refer to LAN-160, "ECM Circuit Inspection" .

SELECT SYSTEM screen Initial diagnosis Transmit diagnosis Image: Formattion of the second						CAN DI	AG SUPPC	ORT MNTR					
Initial diagnosis Industrial diagnosis Industrial diagnosis VDC/TCS /ABS METER /ABS BCM /SEC STRG RAS IPDM /E/R ENGINE - UNKWN UNKWN UNKWN UNKWN UNKWN - UNKWN CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) ABS - NG UNKWN UNKWN UNKWN - UNKWN UNKWN CAN COMM CIRCUIT (U1000) - BCM No indication NG UNKWN UNKWN - UNKWN - CAN COMM CIRCUIT (U1001) - RAS/HICAS No indication - UNKWN UNKWN - - UNKWN - - AUTO DRIVE POS No indication - - - UNKWN - - - CAN COMM CIRCUIT (U1000) -	SELECT SYS	TEM screen	Initial	Tronomit			Re	ceive diagno	osis	-	-	SELE-DIAG	BESULTS
ABS Image: Nog indication in the image: Nog indication in the image: No indicatina indication in the image: No indication in					ECM				STRG	RAS			
BCM No indication NG UNKWN UNKWN — UNKWN — — UNKWN CAN COMM CIRCUIT (U1000) — RAS/HICAS No indication — UNKWN UNKWN UNKWN — — UNKWN CAN COMM CIRCUIT (U1000) — AUTO DRIVE POS. No indication — — — UNKWN UNKWN — — — CAN COMM CIRCUIT (U1000) —	ENGINE	-	—	UNKWN	_	UNKWN	UNKWN	UNKWN	—	—	UNKWN		CAN COMM CIRCUIT (U1001)
BCM No indication NG UNKWN UNKWN — UNKWN — — UNKWN CAN COMM CIRCUIT (U1000) — RAS/HICAS No indication — UNKWN UNKWN UNKWN — — UNKWN CAN COMM CIRCUIT (U1000) — AUTO DRIVE POS. No indication — — — UNKWN UNKWN — — — CAN COMM CIRCUIT (U1000) —	ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN00)	-
AUTO DRIVE POS. No indication UNKWN UNKWN CAN COMM CIRCUIT (U1000)	BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	_	_	UNKWN	CAN COMM CIRCUIT	_
AUTO DRIVE POS. No indication UNKWN UNKWN CAN COMM CIRCUIT (U1000)	RAS/HICAS	No indication	_	UNKWN	UNKWN	UNKWN	-	-	UNKWN	_	_	CAN COMM CIRCUIT	-
IPDM E/R No indication - UNKWN - - UNKWN - - CAN COMM CIRCUIT (UN000) -	AUTO DRIVE POS	No indication	_	_	-	_	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT	_
	IPDM E/R	No indication	_	UNKWN		_	-	UNKWN	_	_	_		_
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VDC/TCS		functioning	g part		DC/TCS]				St	eering		SKIB

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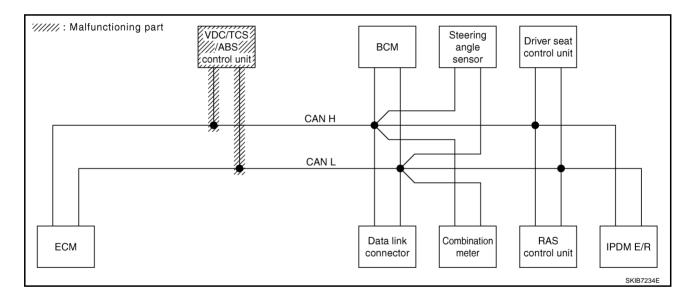
control unit

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Check VDC/TCS/ABS control unit circuit. Refer to LAN-162, "VDC/TCS/ABS Control Unit Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TFM screen	1-24-1	Transmit			Re	ceive diagno	osis			SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	V	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
AUTO DRIVE POS.	No indication	-	_	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_

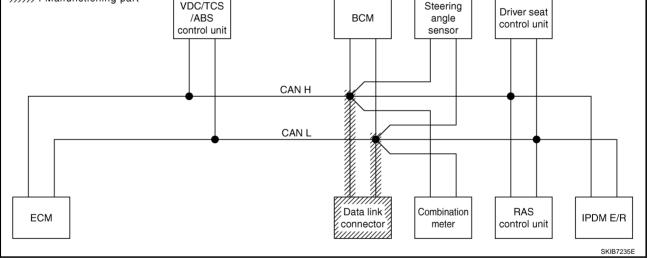
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Case 5

Check data link connector circuit. Refer to LAN-162, "Data Link Connector Circuit Inspection" .

SELECT SYSTE		Initial	Transmit									
						Red	ceive diagno	osis			SELF-DIAG	
ENGINE		diagnosis		ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SELI-DIAG	THEOLETS
	-	—	UNKWN	-	UNKWN	UNKWN	UNKWN	Ι	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM N	lo indication	NG	UNKWN	UNKWN		UNKWN	Ι	Ι	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS N	lo indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS. N	lo indication	-	-	Ι	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R N	lo indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
												SKIB7221E



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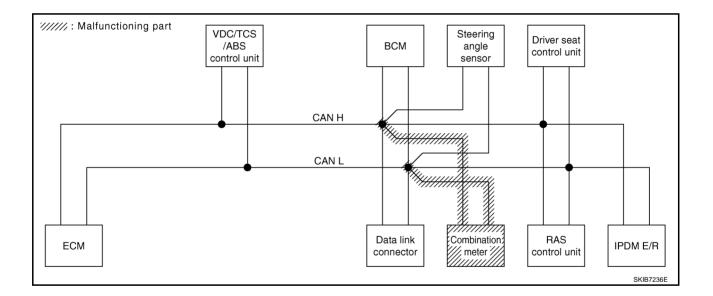
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Case 6

Check combination meter circuit. Refer to LAN-163, "Combination Meter Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TFM screen	l a tti a l	Transmit			Re	ceive diagno	osis			SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	OLLI DIRC	
ENGINE	-	-	UNKWN	-	UNKWN		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	UNKWN	Ι		_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	-		UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_



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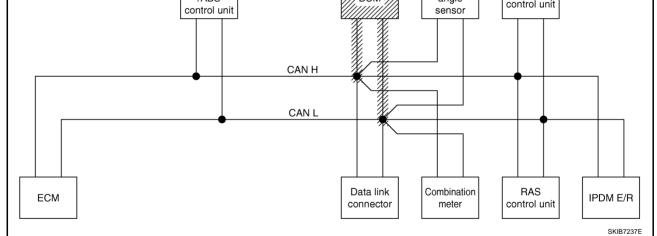
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Case 7

Check BCM circuit. Refer to LAN-163, "BCM Circuit Inspection" .

					CAN DI	AG SUPPC	RT MNTR					
SELECT SYS	TEM screen	Letter 1	Transit			Re	ceive diagno	osis			SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	OLLI DIA	
ENGINE	_	_	UNKWN	—	UNKWN	UNKWN	UNKWN	Ι	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
ABS	—	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	—	UNKWN	-	Ι	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	—	-	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	_	—	-	UNKWN	UNKWN	-	—	—	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	-	_	_	CAN COMM CIRCUIT (UN00)	-
												SKIB7223E



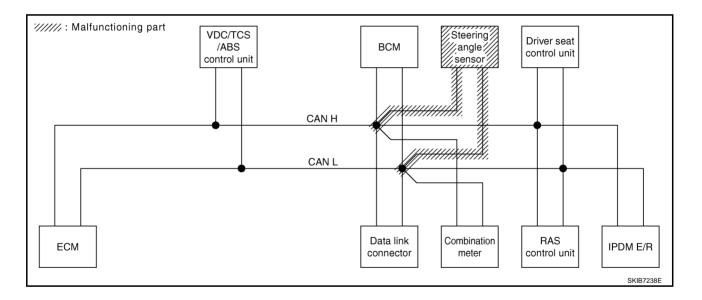
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Check steering angle sensor circuit. Refer to LAN-164, "Steering Angle Sensor Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TEM screen					Re	ceive diagno	osis			SELF-DIAG	
OLLLOT 010		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SELI-DIAC	I NEGOLI G
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
AUTO DRIVE POS.	No indication	-	_	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_

SKIB7224E



Case 9

Check RAS control unit circuit. Refer to LAN-164, "RAS Control Unit Circuit Inspection" .

SELECT SYSTEM		Initial diagnosis —	Transmit diagnosis UNKWN	ECM	VDC/TCS /ABS	Red METER /M&A	ceive diagno BCM /SEC	STRG	RAS	IPDM	SELF-DIAG	RESULTS
ENGINE ABS		diagnosis	diagnosis	ECM				STRG	DAS	IPDM	OLLI -DIAC	INEGOLIO
ABS	-						/3EC		HA0	E/R		
				—	UNKWN	UNKWN	UNKWN	_		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
50M		NG	UNKWN	UNKWN	1	UNKWN	-	UNKWN	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
BCM No	indication	NG	UNKWN	UNKWN		UNKWN	-	-		UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS No	indication	-	UNKWN	UNKWN	UNKWN		-	UNKWN			CAN COMIN CIRCUIT (U N00)	_
AUTO DRIVE POS. No	indication	_	-	-	I	UNKWN	UNKWN	_	Ι	I	CAN COMM CIRCUIT (U1000)	_
IPDM E/R No	indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
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Data link

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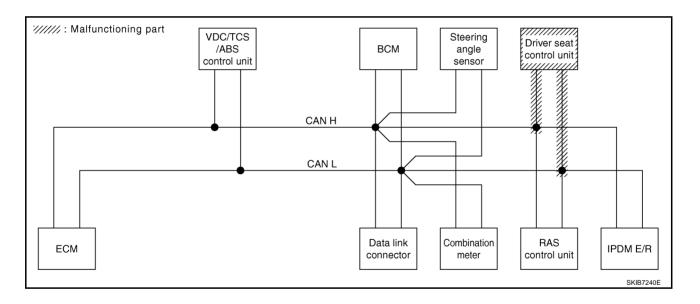
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Check driver seat control unit circuit. Refer to LAN-165, "Driver Seat Control Unit Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TEM screen		.			Re	ceive diagno	osis			SEL E-DIAG	RESULTS
022201010	EW SOICEN	Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	_	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
ABS	_	NG	UNKWN	UNKWN	Ι	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_

SKIB7226E



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control unit

Case 11

Check IPDM E/R circuit. Refer to LAN-165, "IPDM E/R Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TEM screen	Initial	Transmit			Re	ceive diagno	osis			SELF-DIAG	RESULTS
		diagnosis		ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	_	UNKWN	-	UNKWN	UNKWN	UNKWN	—		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
ABS	_	NG	UNKWN	UNKWN	1	UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	_	_	_	UNKWN	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	1	_	UNKWN	_	-	_	CAN COMM CIRCUIT	_
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Data link

connector

Combination

meter

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IPDM E/R

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Case 12

Check CAN communication circuit. Refer to LAN-166, "CAN Communication Circuit Inspection" .

					CAN DI	AG SUPPO	RT MNTR					
SELECT SYS	TEM screen	La Mart	Transit			Re	ceive diagno	osis			SELF-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	_		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ABS	_	K	UNKWN	UNKWN		UNKWN	—	UNKWN	UNKWN	1	CAN COMM CIRCUIT (UN00)	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
AUTO DRIVE POS.	No indication	_	-	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	Ι	-	_	CAN COMM CIRCUIT (UN00)	_

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DI	AG SUPPC	ORT MNTR					
SELECT SYS	TEM screen	Initial	T			Re	ceive diagn	osis			SELF-DIAG	BESUITS
012201 010		diagnosis	Transmit diagnosis	ECM	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	OLLI DINC	
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
ABS	_	NG	UNKWN	UNKWN		UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN		UNKWN	—	-	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	-	—	CAN COMM CIRCUIT (U 1000)	_
AUTO DRIVE POS.	No indication	—	_	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_

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Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
Initial diagnosis Initial diagno
GINE
M No indication NG UNKWN UNKWN - UNKWN UNKWN CAN COMM CIRCUIT (U1000)
S/HICAS No indication - UNKWN UNKWN UNKWN UNKWN CAN COMM CIRCUIT (U1000)
O DRIVE POS. No indication - - - CAN COMM CIRCUIT (U1000) -
M E/R No indication - UNKWN UNKWN UNKWN CAN COMM CIRCUIT -

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CAN SYSTEM (TYPE 5)	PFP:23710
Component Parts and Harness Connector Location	NKS0026Y
Refer to LAN-21, "Component Parts and Harness Connector Location".	
Schematic	NKS0026Z
Refer to LAN-22, "Schematic".	
Wiring Diagram — CAN —	NK\$00270
Refer to LAN-23, "Wiring Diagram — CAN —".	

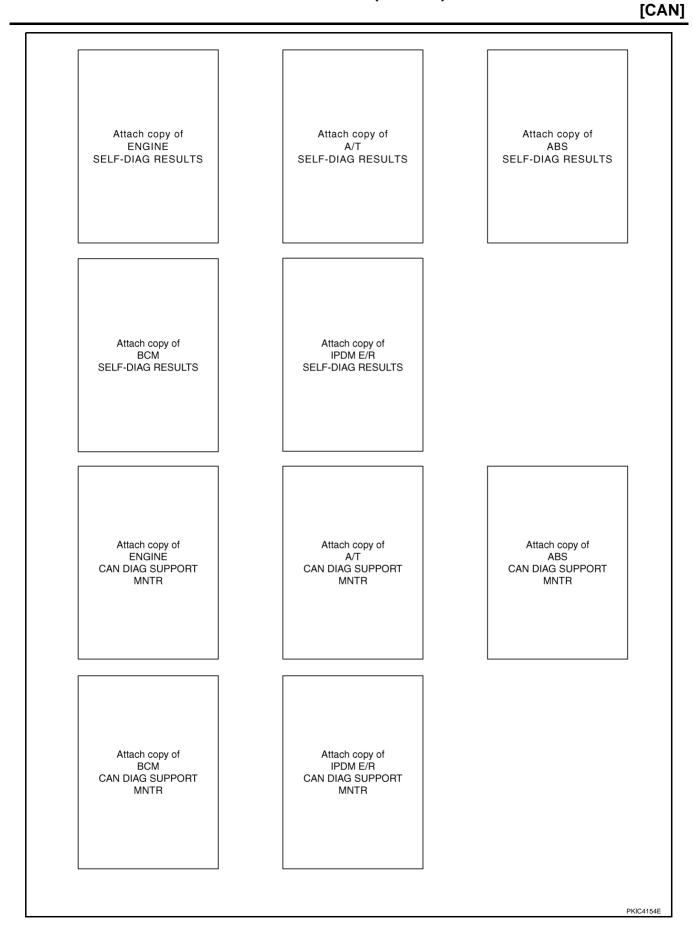
Check Sheet

NOTE:

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

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CHECK SHEET RESULTS (EXAMPLE)

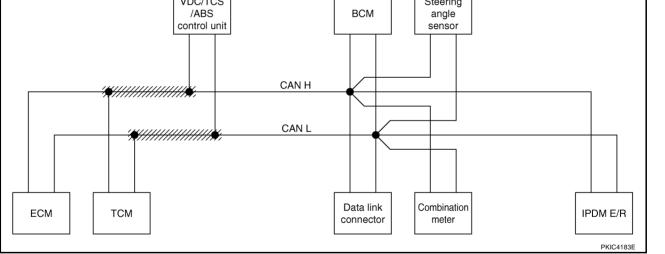
NOTE:

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

Case 1

В Check harness between TCM and VDC/TCS/ABS control unit. Refer to LAN-157, "Inspection Between TCM and VDC/TCS/ABS Control Unit Circuit" .

				С	AN DIAG	SUPPO						
SELECT SY	STEM screen	Initial	Transmit				eive diagi				SELF-DIAG	RESULTS
			diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	-	UNKWN	-	UNKWN				—	UNK	(01000)	
A/T	-	NG	UNKWN	UNKWN	-	UNKWN		_	_	-	CAN COMM CIRCUIT (UN00)	_
ABS	-	NG	UNKWN		UNKWN	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT	_
ВСМ	No indication	NG	UNKWN		_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	UNKWN	_	-	CAN COMM CIRCUIT	_
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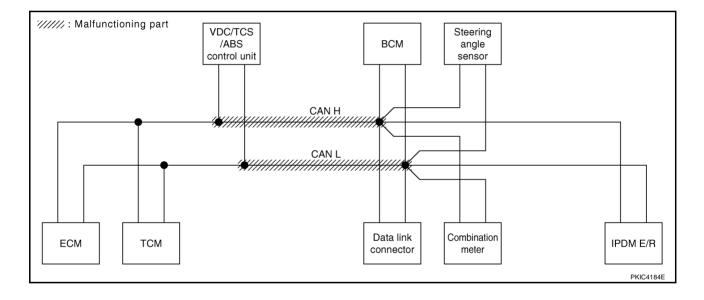
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Check harness between VDC/TCS/ABS control unit and data link connector. Refer to <u>LAN-158</u>, "Inspection <u>Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit</u>".

				C	AN DIAG	SUPPC	RT MNT					
SELECT SYS		Initial diagnosis	Transmit diagnosis	ECM	тсм		METER /M&A		STRG	IPDM E/R	SELF-DIAG	
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN		UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN		-	-	-	CAN COMIN CIRCUIT (U N00)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-		-	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN		-	-	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN		-	-	—	UNKWN	-	—	CAN COMIN CIRCUIT (U N00)	-



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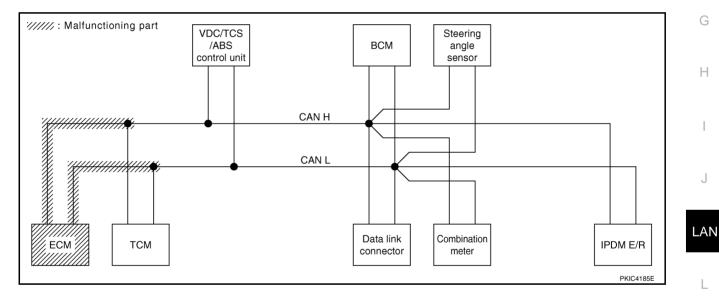
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Case 3

Check ECM circuit. Refer to LAN-160, "ECM Circuit Inspection" .

				<u>с</u>	AN DIAG		RT MNT					
SELECT SYS	STEM screen	Initial diagnosis	Transmit diagnosis	ECM	тсм		METER /M&A		STRG	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_		_			UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (U 1001)
A/T	-	NG	UNKWN		_	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT	-
ABS	-	NG	UNKWN		UNKWN	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT	-
всм	No indication	NG	UNKWN		_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	1	UNKWN		_	_	_	UNKWN	_	_		_

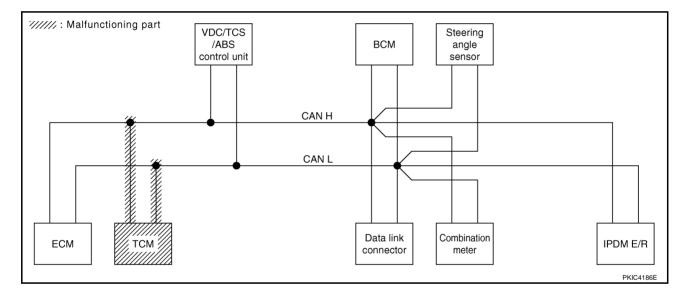


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Check TCM circuit. Refer to LAN-161, "TCM Circuit Inspection"

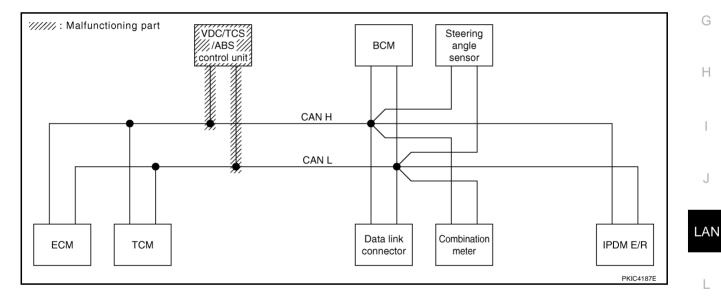
				С	AN DIAG	SUPPO						
SELECT SY	STEM screen	Initial	Transmit			Rece	eive diagr	nosis			SELF-DIAG	RESULTS
		diagnosis			тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (U 1001)
A/T	_	NG	UNKWN		-			-	—	-	CAN COMN CIRCUIT (UN00)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
-	•										· · · ·	



Case 5

Check VDC/TCS/ABS control unit circuit. Refer to LAN-162, "VDC/TCS/ABS Control Unit Circuit Inspection" .

				С	AN DIAG	SUPPO	RT MNT	R				
SELECT SYS	STEM screen	Initial	Transmit			Rece	eive diagr	nosis				RESULTS
		1	diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	_	UNKWN	-	UNKWN	UNK	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	_	NG	UNKWN	UNKWN	-	UNK	UNKWN	-	-		CAN COMM CIRCUIT (U 1000)	_
ABS	_	N/S	UNK		UNKWN	-			UNKWN	-	CAN COMM CIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN		—	UNKWN	-	I	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	-	_	-	UNKWN	Ι	_	CAN COMM CIRCUIT (U1000)	-



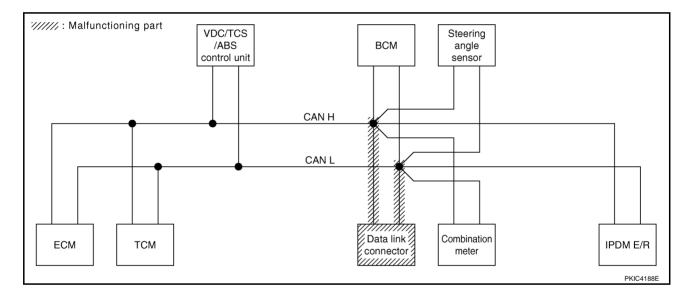
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Check data link connector circuit. Refer to LAN-162, "Data Link Connector Circuit Inspection" .

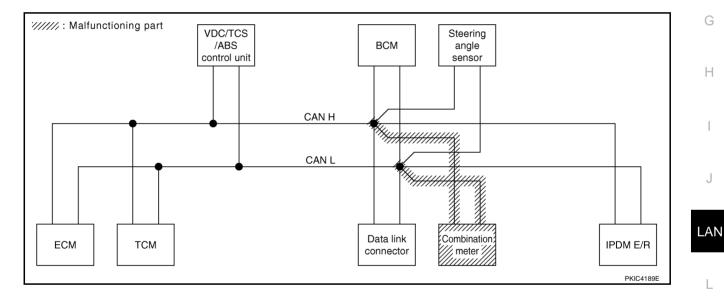
				С	AN DIAG	SUPPO	RT MNT	R				
SELECT SYS	STEM screen	Initial	Tronomit			Rece	eive diagr	nosis			SELF-DIAG	RESULTS
		diagnosis	Transmit diagnosis		тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	l	UNKWN	UNKWN	_	I	-	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	Ι	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN		—		UNKWN	1	_	CAN COMM CIRCUIT (U1000)	_



Case 7

Check combination meter circuit. Refer to LAN-163, "Combination Meter Circuit Inspection" .

				C	AN DIAG		RT MNT					
SELECT SY	STEM screen	Initial diagnosis	Transmit diagnosis		тсм	VDC/TCS /ABS	-		STRG	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN		_	-	-	CAN COMM CIRCUIT (U N00)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNK	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-



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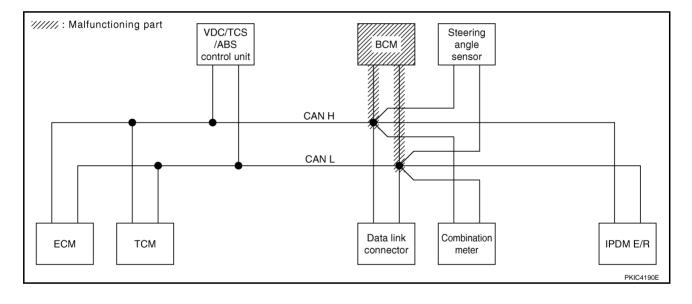
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Check BCM circuit. Refer to LAN-163, "BCM Circuit Inspection" .

				С	an diag							
SELECT SYS	STEM screen	Initial	Transmit			Rece	eive diagr	nosis			SELF-DIAG	RESULTS
		diagnosis			тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN		-	—	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	—	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	_	UNKWN	—	-	CAN COMIN CIRCUIT (UN00)	_
	•											

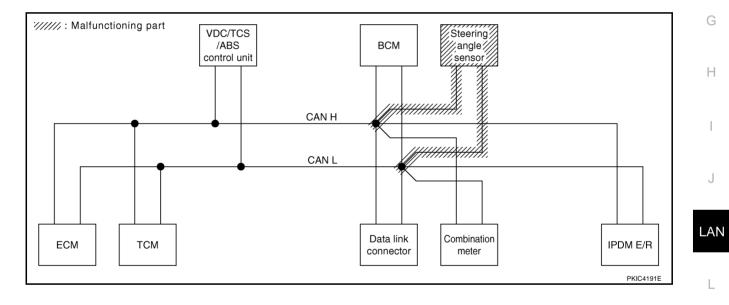


Case 9

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Check steering angle sensor circuit. Refer to LAN-164, "Steering Angle Sensor Circuit Inspection" .

			1	<u>с</u>	AN DIAG	SUPPC						
SELECT SYS		Initial	Transmit				eive diagr			IPDM	SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	ТСМ	/ABS	/M&A	/SEC	STRG	E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	1	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—		-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	—	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	—



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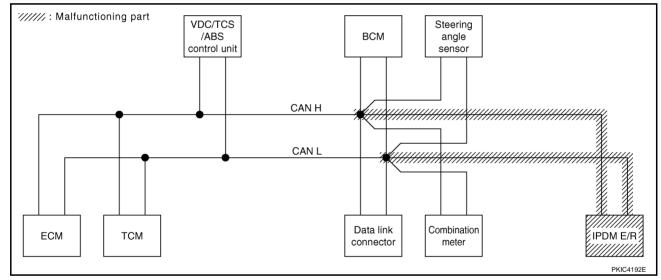
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Check IPDM E/R circuit. Refer to LAN-165, "IPDM E/R Circuit Inspection" .

				С	AN DIAG	G SUPPO	RT MNT	R				
SELECT SY	STEM screen	Initial	Transmit			Rece	eive diagr	nosis			SELF-DIAG	BESULTS
		diagnosis		ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	I	UNK	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	_	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	Ι		-	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	UNKWN		UNKWN	_	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	Ι	-	UNK	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	UNKWN	-	—	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	-		_



Case 11

Check CAN communication circuit. Refer to LAN-166, "CAN Communication Circuit Inspection" .

				C	AN DIAG	SUPPC	RT MNT	R				
SELECT SYS	STEM screen	Initial	Transmit			Rece	eive diagr	nosis			SELF-DIAG	RESULTS
			diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	-		-				UNKWN	-	UNK	CAN COMIN CIRCUIT (U 1000)	CAN COMM CIRCUI (U1001)
A/T	_	NG	UNKWN		1			1	-	-	CAN COMIN CIRCUIT (U N00)	_
ABS	_	N	UNK			—				-	CAN COMIN CIRCUIT (U N00)	_
ВСМ	No indication	NG	UNKWN	UNKWN	1	—	UNKWN	1	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	-	-	—	UNKWN	-	-	CAN COMIN CIRCUIT (U 1000)	—

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Case 12

А Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-167, "IPDM E/R Ignition Relay Circuit Inspection"

				С	AN DIAG	SUPPO	RT MNT	R				
SELECT SYS	STEM screen	Initial	Transmit			Rece	eive diagr	nosis			SELE-DIAG	RESULTS
		diagnosis		ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	_	UNKWN	-		UNK	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (U 1001)
A/T	—	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	—		-	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-167, "IPDM E/R Ignition Relay Circuit Inspection"

				С	AN DIAG	SUPPC	RT MNT	R				
	STEM screen	Initial	Tronomit			Rece	eive diagr	nosis				RESULTS
		diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R	SELI-DIAC	TILOULIO
ENGINE	-	_	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	-	—	UNKWN	—	-	—	-	CAN COMM CIRCUIT (UN00)	_
ABS	_	NG	UNKWN	-	UNKWN	-	-	-	_	-	CAN COMM CIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

	[CAN]
CAN SYSTEM (TYPE 6)	PFP:23710
Component Parts and Harness Connector Location	NK\$00271
Refer to LAN-21, "Component Parts and Harness Connector Location".	
Schematic	NKS00272
Refer to LAN-22, "Schematic".	
Wiring Diagram — CAN —	NKS00273
Refer to LAN-23, "Wiring Diagram — CAN —".	

Check Sheet

NOTE:

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

BLECT SYSTEM screen Transmit diagnosis Transmit diagnosis Transmit diagnosis Transmit diagnosis SELF-DIAG RESULTS BINE — — UNKWN — UNKWN UNKWN UNKWN UNKWN CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1001) GINE — M UNKWN — UNKWN UNKWN UNKWN UNKWN — UNKWN CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) LIGENT KEY No indication — UNKWN UNKWN — — UNKWN UNKWN — — CAN COMM CIRCUIT (U1000) — — (U1001) — — (U1001) — — (U1001) — — (U1001) — — UNKWN UNKWN — — — UNKWN — — — CAN COMM CIRCUIT (U1000) — — [U1001] … [U1000] [U1000] …	SELECT SYSTEM screen Initial diagnosis Transmit ECM TCM I-KEY VOCTOS METER MAB BCM /SEC STRG IPOM ER SELF-DIAG RESULTS INGINE - - UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U1001) CAN COMM CIRCUIT (U1001) - - - CAN COMM CIRCUIT (U1001) - - - - - CAN COMM CIRCUIT (U1001) - - - - - CAN COMM CIRCUIT (U1001) - - - - CAN COMM CIRCUIT (U1001) - - - - - CAN COMM CIRCUIT (U1000) - - - - CAN COMM CIRCUIT (U1000) - - - UNKWN - - UNKWN - -	Beceive diagnosis SELECT SYSTEM screen SELF-DIAG RESULTS Initial diagnosis Transmit diagnosis Transmit ECM TCM I-KEY VOC/TCS METER /M&B BCM IPDM CAN COMM CIRCUIT (U1000) DIM						CAN	DIAG SU	PPORT M	NTR					
diagnosis diagnosis ECM TCM I-KEY V/DC/TCS METER BCM STRC IPPM SINE - - UNKWN - UNKWN - UNKWN CAN COMM CIRCUT CAN COMM CIRCUT (U1001) - NG UNKWN UNKWN - UNKWN UNKWN - - CAN COMM CIRCUT (U1000) - LIGENT KEY No indication - UNKWN UNKWN - - - CAN COMM CIRCUT - CAN COM CIRCUT -	diagnosis diagnosis ECM TCM I-KEY VDC/TCS METER B/EC STRG IPOM INGINE - - UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U1001) (U1001) VT - NG UNKWN UNKWN - UNKWN UNKWN CAN COMM CIRCUIT (U1001) - TELLIGENT KEY No indication - UNKWN UNKWN - - CAN COMM CIRCUIT (U1000) - RBS - NG UNKWN UNKWN - - UNKWN UNKWN - CAN COMM CIRCUIT (U1000) - RBS - NG UNKWN UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U1000) - RCM No indication NG UNKWN UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) - CAN COMICIRCUIT (U1000) - CAN COM CIRCUIT (U1000) - CAN COM CIRCUIT (U1000) - CAN COM CIRCUIT (U1000) - - CAN COM CIRCUIT (U1000) - - CAN COM CIRCUIT (U1000) - - </td <td>diagnosis ECM TCM I-KEY VDC/TCS METER BCM STRG IPDM NGINE - - UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U100) - rt - NG UNKWN UNKWN UNKWN UNKWN - - CAN COMM CIRCUIT (U100) - rt - NG UNKWN UNKWN UNKWN UNKWN UNKWN - - CAN COMM CIRCUIT (U100) - TELLIGENT KEY No indication - UNKWN UNKWN UNKWN UNKWN - - CAN COMM CIRCUIT (U100) - BS - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COM CIRCUIT (U100) - CM No indication NG UNKWN UNKWN - UNKWN - - CAN COM CIRCUIT (U1000) - CAN COM CIRCUIT (U1000) - CAN COM CIRCUIT (U1000) - - CAN COM CIRCUIT (U1000) - - CAN COM CIRCUIT (U1000) - - CAN COM CIRCUIT (U1000) -<td>SELECT EVO</td><td>TEM soreen</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	diagnosis ECM TCM I-KEY VDC/TCS METER BCM STRG IPDM NGINE - - UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT (U100) - rt - NG UNKWN UNKWN UNKWN UNKWN - - CAN COMM CIRCUIT (U100) - rt - NG UNKWN UNKWN UNKWN UNKWN UNKWN - - CAN COMM CIRCUIT (U100) - TELLIGENT KEY No indication - UNKWN UNKWN UNKWN UNKWN - - CAN COMM CIRCUIT (U100) - BS - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COM CIRCUIT (U100) - CM No indication NG UNKWN UNKWN - UNKWN - - CAN COM CIRCUIT (U1000) - CAN COM CIRCUIT (U1000) - CAN COM CIRCUIT (U1000) - - CAN COM CIRCUIT (U1000) - - CAN COM CIRCUIT (U1000) - - CAN COM CIRCUIT (U1000) - <td>SELECT EVO</td> <td>TEM soreen</td> <td></td> <td>-</td> <td></td>	SELECT EVO	TEM soreen		-										
Line	Notifie - ONXWN - ONXWN ONXWN ONXWN ONXWN ONXWN OUXWN	Notifie - ONKWN - ONKWN	SELECT STS		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A		STRG			
Image: Construction	VI Image: Constraint of the constraint of th	1/2 - ING UNKWN UNKWN - - - UNKWN UNKWN -	ENGINE	_	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	(U1000)	(U1001)
LildeN Ref No indication - - UNKWN UNKWN - - - (U1000) - S - NG UNKWN UNKWN UNKWN - - UNKWN - CAN COMM CIRCUIT - A No indication NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT - ODRIVE POS. No indication - - UNKWN - UNKWN - - CAN COMM CIRCUIT - ODRIVE POS. No indication - - UNKWN - - UNKWN - - CAN COMM CIRCUIT - VM E/R No indication - UNKWN - - - UNKWN - - CAN COMM CIRCUIT - YM E/R No indication - UNKWN - - - UNKWN - - CAN COMM CIRCUIT - (U1000) - - - CAN COMM CIRCUIT - - - - CAN COMM CIRCUIT - - -	TeleLideAri Rev No indication - 0xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	TeleLideAri Rev No indication - 0vkWN 0vkWN - - - (U1000) - BS - NG UNKWN UNKWN - - UNKWN - CAN COMM CIRCUIT - CM No indication NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT - CM No indication NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT - CDRUE POS. No indication - - UNKWN - - UNKWN - - CAN COMM CIRCUIT - (U1000) - - - (U1000) - - - CAN COMM CIRCUIT - - - CAN COMM CIRCUIT - - - CAN COMM CIRCUIT - - - CAN COM CIRCUIT - - - CAN COM CIRCUIT - - - - CAN COM CIRCUIT - - - - - - - - - - - </td <td>/т</td> <td>_</td> <td>NG</td> <td>UNKWN</td> <td>UNKWN</td> <td>-</td> <td>_</td> <td>UNKWN</td> <td>UNKWN</td> <td>-</td> <td>_</td> <td>_</td> <td>CAN COMM CIRCUIT (U1000)</td> <td>_</td>	/т	_	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
S L NG UNKWN UNKWN - - UNKWN - - (U1000) - A No indication NG UNKWN UNKWN - UNKWN - - UNKWN CAN COMM CIRCUIT (U1000) - DDRIVE POS. No indication - - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - M E/R No indication - UNKWN - - - UNKWN - - CAN COMM CIRCUIT (U1000) - ME/R No indication - UNKWN - - - UNKWN - - CAN COMM CIRCUIT (U1000) -	Less Image: Construction Onk With Onk With Onk With Onk With Onk With Onk With One of the construction Image: Construle to the construction Image: Cons	BS Image: Construction of the constructi	TELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	_	(U1000)	
A No indication NG UNKWN UNKWN - UNKWN - UNKWN - UNKWN UNKWN (U1000) - DDRIVE POS No indication UNKWN UNKWN UNKWN CAN COMM CIRCUIT - M E/R No indication - UNKWN UNKWN UNKWN UNKWN CAN COMM CIRCUIT - Troptoms : Troptoms :	ICM No indication NG UNKWN - UNKWN - - UNKWN - - - CAN COMM CIRCUIT - - - - CAN COMM CIRCUIT - - - - UNKWN - - - UNKWN - - - CAN COMM CIRCUIT - - - - - - - - - - - CAN COMM CIRCUIT - - - - - CAN COMM CIRCUIT -	CM No indication NG UNKWN - ONKWN - - ONKWN - - ONKWN - - ONKWN - - - CN COMM CIRCUIT - - CM CM ONKWN - - - ONKWN - - - CM COMM CIRCUIT C	.BS	_	NG	UNKWN	UNKWN	UNKWN		-	UNKWN		UNKWN	-	(U1000)	_
Drive Positive indication - <td>JID DHIVE POS. No indication - <td< td=""><td>Int D Hive POS. No indication - <t< td=""><td>CM</td><td>No indication</td><td>NG</td><td>UNKWN</td><td>UNKWN</td><td>-</td><td>UNKWN</td><td>-</td><td>UNKWN</td><td>-</td><td>-</td><td>UNKWN</td><td>(U1000)</td><td>_</td></t<></td></td<></td>	JID DHIVE POS. No indication - <td< td=""><td>Int D Hive POS. No indication - <t< td=""><td>CM</td><td>No indication</td><td>NG</td><td>UNKWN</td><td>UNKWN</td><td>-</td><td>UNKWN</td><td>-</td><td>UNKWN</td><td>-</td><td>-</td><td>UNKWN</td><td>(U1000)</td><td>_</td></t<></td></td<>	Int D Hive POS. No indication - <t< td=""><td>CM</td><td>No indication</td><td>NG</td><td>UNKWN</td><td>UNKWN</td><td>-</td><td>UNKWN</td><td>-</td><td>UNKWN</td><td>-</td><td>-</td><td>UNKWN</td><td>(U1000)</td><td>_</td></t<>	CM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	(U1000)	_
M E/R No indication - ONKWN - - - (U1000) - Imptoms :	OW EX No indication - OWKWN - - - (U1000) - Symptoms :	DM ER No indication - UNKWN - - - - (U1000) - Symptoms :	JTO DRIVE POS.	No indication	-	-	I	UNKWN	1	-	UNKWN	UNKWN	Ι	_	(U1000)	_
Attach copy of Attach copy of	Attach copy of	Attach copy of	PDM E/R	No indication	_	UNKWN	UNKWN	-	_	-	_	UNKWN	_	_		_
Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM														
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CHECK SHEET RESULTS (EXAMPLE)

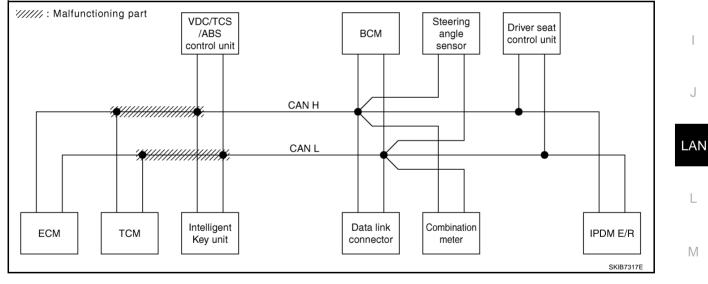
NOTE:

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

Case 1

В Check harness between TCM and VDC/TCS/ABS control unit. Refer to LAN-157, "Inspection Between TCM and VDC/TCS/ABS Control Unit Circuit" .

					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	TEM screen	1 - 22 - 1	T				Receive	diagnosis				SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R	OLLI DIAC	
ENGINE	_	_	UNKWN		UNKWN	_	UNKWN	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U N00)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U N00)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	—	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	-			_	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U N00)	-
IPDM E/R	No indication	_	UNKWN	UNIN	_	_	_	_	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	_



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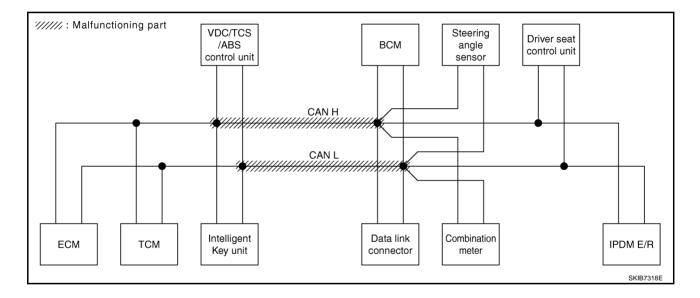
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Check harness between VDC/TCS/ABS control unit and data link connector. Refer to <u>LAN-158</u>, "Inspection <u>Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit</u>".

					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	FM scroon		-				Receive	diagnosis				SELF-DIAG	RESULTS
	LWISCICCI	Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	-	UNKWN	-	UNKWN	_	UNKWN		UNKWN	-		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	—	NG	UNKWN	UNKWN	—	_	UNKWN		-	-	-	CAN COMIN CIRCUIT (U N00)	—
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	UNKWN	-	_	CAN COMM CIRCUIT (U 1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN		_	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	_	_	UNI	_	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT	-
IPDM E/R	No indication	_	UNKWN	UNIWN	_	_	_	_	UNKWN	-	_	CAN COMM CIRCUIT	_

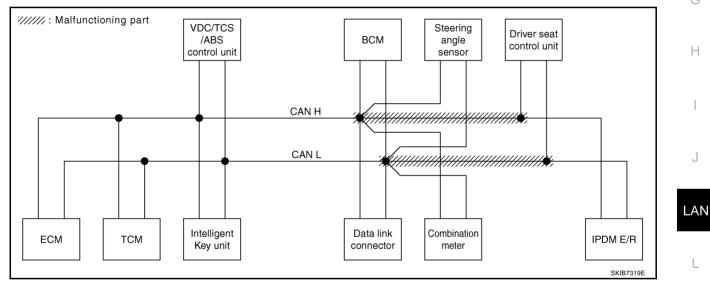


[CAN]

Case 3

А Check harness between data link connector and driver seat control unit. Refer to LAN-158, "Inspection Between Data Link Connector and Driver Seat Control Unit Circuit" .

					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	TEM screen						Receive	diagnosis					RESULTS
OLLLOT OTO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		THEODERO
ENGINE	-	—	UNKWN		UNKWN	—	UNKWN	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	—	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	-	—	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS	No indication	-	-		UNKWN	—	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	CAN COMM CIRCUIT	_



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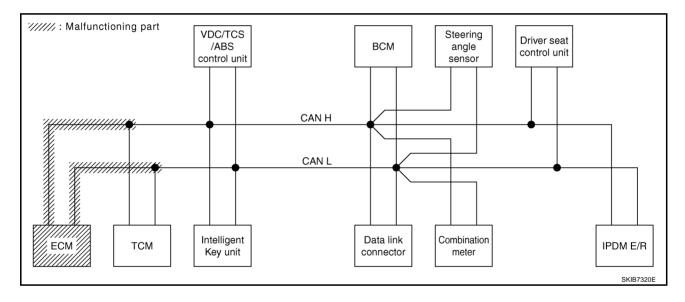
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Check ECM circuit. Refer to LAN-160, "ECM Circuit Inspection" .

					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	TEM screen						Receive	diagnosis				SELF-DIAG	REQUITS
SELECT STO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNIWN	_	UNIOWN	_	UNION	UNKWN	UNKWN	_		CAN COMM CIRCUIT (U N00)	CAN COMM CIRCU (U1001)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	_	-	CAN COMIN CIRCUIT (U N00)	—
INTELLIGENT KEY	No indication	—	UNKWN	UNIWN	—	—	-	UNKWN	UNKWN	—	-	CAN COMIN CIRCUIT (U N00)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U 1000)	_
BCM	No indication	NG	UNKWN	UNIWN	-	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	—	—	-	UNKWN	—	—	UNKWN	UNKWN	—	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNIWN	_	_	_	_	UNKWN	_	_	CAN COMIN CIRCUIT (U 1000)	_



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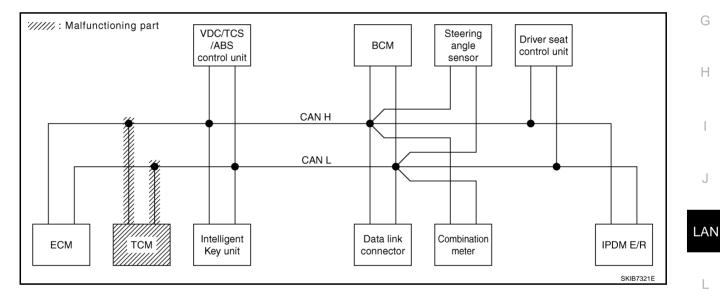
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Case 5

Check TCM circuit. Refer to LAN-161, "TCM Circuit Inspection" .

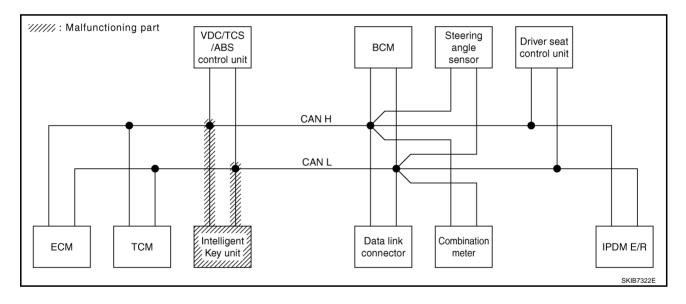
					CAN	DIAG SU	PPORT M	NTR					
SELECT SYST	EM screen						Receive	diagnosis				SELF-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		THEODERO
ENGINE	_	1	UNKWN	—		-	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U N00)	CAN COMM CIRCUIT (U 1001)
A/T	_	NG	UNKWN	UNIMN	_	_	UNION	UNKWN	_	_	-	CAN COMIN CIRCUIT (U 1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	—		_	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_



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Check Intelligent Key unit circuit. Refer to LAN-161, "Intelligent Key Unit Circuit Inspection" .

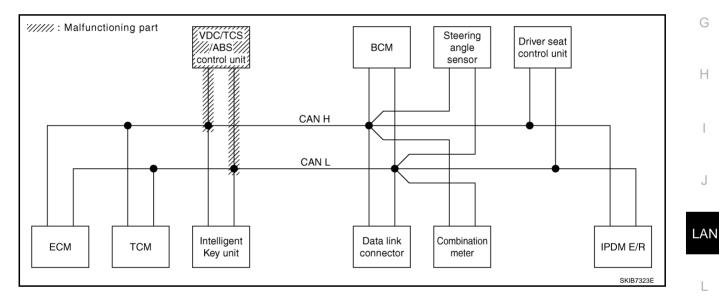
					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	FM screen						Receive	diagnosis				SELF-DIAG	RESULTS
SELECT STO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R	SELF-DIAG	HESOLIS
ENGINE	-	—	UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	_	NG	UNKWN	UNKWN	—	_	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	-	—	—	UNKWN	UNKWN	—	-	CAN COMIN CIRCUIT (U 1000)	—
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	—	_	-	UNKWN	_	-	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_



Case 7

Check VDC/TCS/ABS control unit circuit. Refer to LAN-162, "VDC/TCS/ABS Control Unit Circuit Inspection" .

					CAN	DIAG SUI	PPORT M	NTR					
SELECT SYS	TEM screen						Receive	diagnosis				SELF-DIAG	RESULTS
SELECT OF C		Initial diagnosis	Transmit diagnosis		тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	—	—	UNKWN		UNKWN	_	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	—	NG	UNKWN	UNKWN	-	—	UNKWN	UNKWN	—	-	-	CAN COMIN CIRCUIT (U N00)	-
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	-	—	-	UNKWN	UNKWN	-	—	CAN COMM CIRCUIT (U1000)	ļ
ABS	—	V	UNKWN	UNKWN	UNKWN	—		UNKWN	—		-	CAN COMM CIRCUIT (U 1000)	-
всм	No indication	NG	UNKWN	UNKWN		UNKWN	1	UNKWN	_	1	UNKWN	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	—	-	-	UNKWN	—		UNKWN	UNKWN	1	_	CAN COMM CIRCUIT (U1000)	1
IPDM E/R	No indication	—	UNKWN	UNKWN	—	_	—	_	UNKWN	—	-	CAN COMM CIRCUIT (U1000)	—



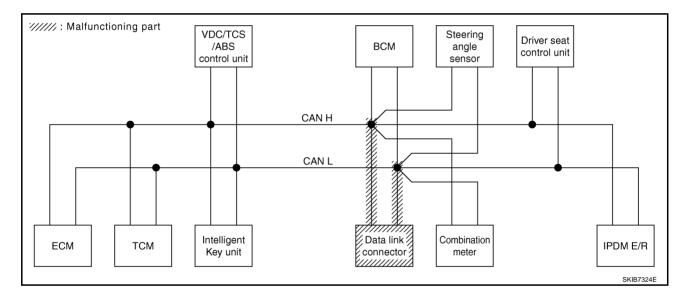
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Check data link connector circuit. Refer to LAN-162, "Data Link Connector Circuit Inspection" .

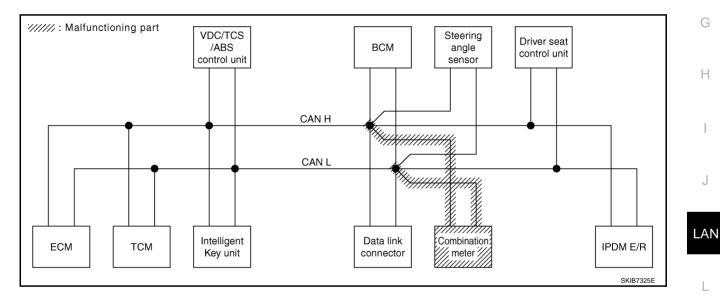
					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	FM screen						Receive	diagnosis				SELF-DIAG	BESINTS
ULLEON ON O	LWISCICCI	Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	_	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	_	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	-	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	_	-	UNKWN	-	—	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_



Case 9

Check combination meter circuit. Refer to LAN-163, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	EM screen		-				Receive	diagnosis					RESULTS
OLLEON ONO	EW SOLCON	Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	-	1	UNKWN	—	UNKWN	-	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	_	-	CAN COMM CIRCUIT (U N00)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	—	—	-	UNKWN	UNKWN	—	-	CAN COMM CIRCUIT (U 1000)	—
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	-	-	—	UNKWN	_	-		UNKWN	—	-	CAN COMM CIRCUIT (U N00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	—	-	-	UNKWN	—	-	CAN COMM CIRCUIT (U1000)	—



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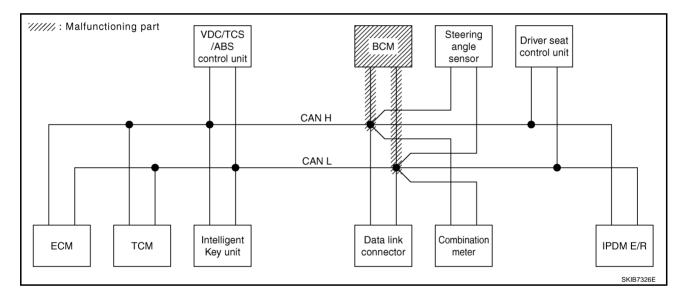
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Check BCM circuit. Refer to LAN-163, "BCM Circuit Inspection" .

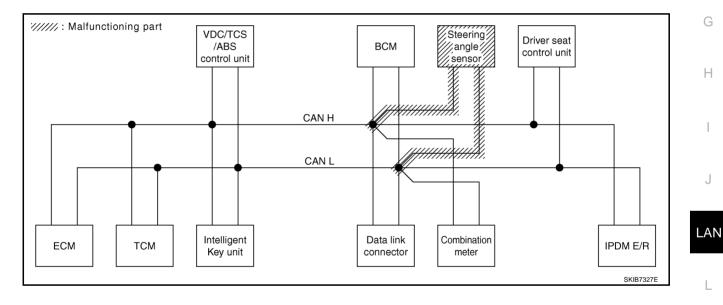
					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	TEM screen						Receive	diagnosis				SELF-DIAG	RESULTS
SELECT STO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		HEBBEIG
ENGINE	—	_	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (UN01)
A/T	—	NG	UNKWN	UNKWN	—	-	UNKWN	UNKWN	—	—	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	—	_	—	UNKWN	UNKWN	—	—	CAN COMICIRCUIT (U 1000)	_
ABS	—	NG	UNKWN	UNKWN	UNKWN		—	UNKWN	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	—	—	-	UNKWN	-	—	UNKWN	UNKWN	—	-	CAN COMIN CIRCUIT (U N00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNIOWN	_	_	CAN COMIN CIRCUIT (U 1000)	_



Case 11

Check steering angle sensor circuit. Refer to LAN-164, "Steering Angle Sensor Circuit Inspection" .

					CAN	DIAG SUI	PPORT M	NTR					
SELECT SYS	EM screen		-				Receive	diagnosis				SELF-DIAG	RESULTS
OLLEOT OTO	LIVI SCIECIT	Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		THEODERO
ENGINE	_	1	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	_	—	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	—	UNKWN	UNKWN	-	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	—	UNKWN	_	Ι	CAN COMM CIRCUIT (U1000)	—



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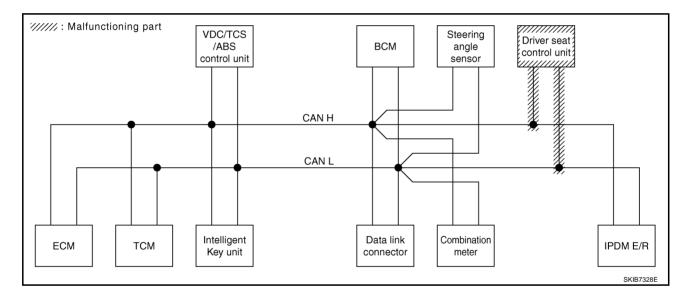
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Check driver seat control unit circuit. Refer to LAN-165, "Driver Seat Control Unit Circuit Inspection" .

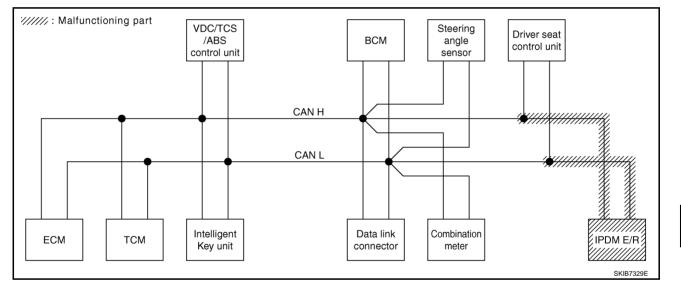
					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	TEM screen		-				Receive	diagnosis				SELF-DIAG	
SELECT STO	LWISCICCI	Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		THEODERO
ENGINE	-	_	UNKWN	_	UNKWN		UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	—	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	—	—	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	-	_	—	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	_	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	-	—	UNKWN	-	—	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (U N00)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_



Case 13

Check IPDM E/R circuit. Refer to LAN-165, "IPDM E/R Circuit Inspection" .

					CAN	DIAG SUI	PPORT M	NTR					
SELECT SYST	FM screen	Initial	T				Receive	diagnosis				SELF-DIAG	BESUITS
		diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	_	_	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	_		CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	-	CAN COMM CIRCUIT (U 1000)	_



Case 14

Check CAN communication circuit. Refer to LAN-166, "CAN Communication Circuit Inspection" .

					CAN	DIAG SU	PPORT M	NTR					
SELECT SYS	FM screen	luciti e l	T				Receive	diagnosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_		UNIWN	-	UNIOWN	_	UNKWN	UNKWN	UNIÓWN			CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	—	_	UNKWN	UNKWN	_	Ι	Ι	CAN COMM CIRCUIT (U N00)	_
INTELLIGENT KEY	No indication	1	UNKWN	UNKWN	—	—	_	UNKWN	UNKWN	Ι	Ι	CAN COMM CIRCUIT (U N00)	_
ABS	-	V	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		-	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	Ι	-	-	UNKWN	-	—	UNKWN	UNKWN	-	-	CAN COMIN CIRCUIT (U N00)	_
IPDM E/R	No indication	Ι	UNKWN	UNKWN	_	-	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U 1000)	—

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN	DIAG SUI	PPORT MI	NTR					
SELECT SYST	FM screen	1	T				Receive of	diagnosis				SELF-DIAG	RESULTS
OLLEON ONO	LWISCICCI	Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	IPDM E/R		
ENGINE	_	_	UNKWN	-	UNI	_		UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U N00)	CAN COMY CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	—	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	_	-	-	UNI	_	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U N00)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	—	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_

Case 16

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

A/T - NG UNKWN - - UNKWN - - - CAN COMM CIRCUIT (UM00) - - INTELLIGENT KEY ABS - UNKWN - - - UNKWN - - CAN COMM CIRCUIT (UM00) -						CAN	DIAG SU	PPORT M	NTR					
Initiality diagnosis Initiality diagnosis <th< td=""><td>SELECT SYST</td><td>FM scroon</td><td></td><td></td><td></td><td></td><td></td><td>Receive</td><td>diagnosis</td><td></td><td></td><td></td><td></td><td>BESINTS</td></th<>	SELECT SYST	FM scroon						Receive	diagnosis					BESINTS
ENGINE - ONKWN - ONKWN - ONKWN - ONKWN - ONKWN - ONKWN (U1000) (U1000) (U1001) A/T - NG UNKWN - - UNKWN - - - CAN COMM CIRCUIT - INTELLIGENT KEY No indication - UNKWN - - - UNKWN - - CAN COMM CIRCUIT - ABS - NG UNKWN - - - - - CAN COMM CIRCUIT -	SEELOT STOT	LWISCICCI			ECM	тсм	I-KEY				STRG			
AT NG UNKWN UNKWN (UNKWN (UNKWN (UNKWN	ENGINE	_	_	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	_	UNKWN		CAN COMM CIRCUIT (U1001)
ABS - NG UNKWN - UNKWN UNKWN	A/T	_	NG	UNKWN	_	-	—	UNKWN	_	—	_	-		_
	INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	-	-	—	UNKWN	UNKWN	—	-		_
	ABS	_	NG	UNKWN	_	UNKWN	-	_	-	—	_	_		_
BCM No indication NG UNKWN UNKWN — UNKWN — UNKWN — UNKWN UNKWN (UNKWN UNKWN UNKWN —	всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS. No indication UNKWN UNKWN UNKWN CAN COMM CIRCUIT (U1000)	AUTO DRIVE POS.	No indication	_	—	-	UNKWN	-	—	UNKWN	UNKWN	_	_		-
IPDM E/R No indication UNKWN UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) -	IPDM E/R	No indication	_	UNKWN	UNKWN	-	—	_	_	UNKWN	_	_		_

	[CAN]	
CAN SYSTEM (TYPE 7)	PFP:23710	
Component Parts and Harness Connector Location	NK\$00274	А
Refer to LAN-21, "Component Parts and Harness Connector Location".		
Schematic	NK\$00275	В
Refer to LAN-22, "Schematic".		
Wiring Diagram — CAN —	NK\$00276	С
Refer to LAN-23, "Wiring Diagram — CAN —".		
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Check Sheet

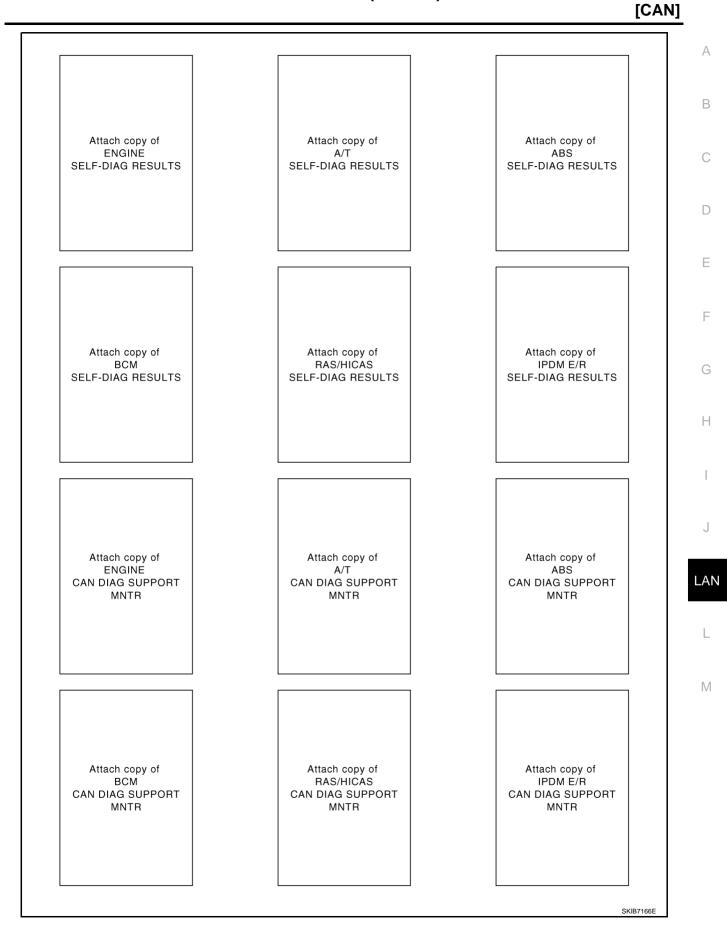
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NOTE:

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

			1		CA	N DIAG SL							
SELECT SYS	I	Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS	METER	diagnosis BCM	STRG	RAS	IPDM	SELF-DIAC	B RESULTS
NGINE			UNKWN	_	UNKWN	/ABS UNKWN	/M&A UNKWN	/SEC UNKWN	_	_	E/R UNKWN	CAN COMM CIRCUIT	
/Т	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	_	_	_	(U1000) CAN COMM CIRCUIT (U1000)	(U1001) —
3S	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
CM	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	-	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
AS/HICAS	No indication	_	UNKWN	UNKWN	_	UNKWN	_	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
DM E/R	No indication	_	UNKWN	UNKWN	_	-	_	UNKWN	—	-	-	CAN COMM CIRCUIT (U1000)	_
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CHECK SHEET RESULTS (EXAMPLE)

NOTE:

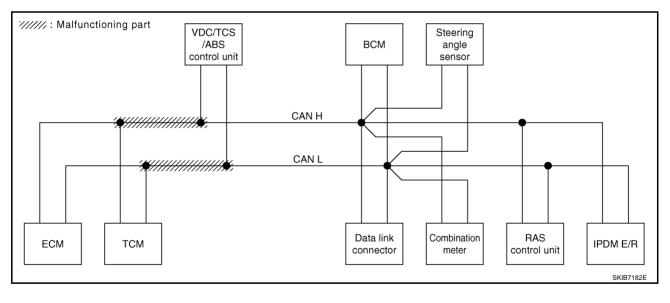
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

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Check harness between TCM and VDC/TCS/ABS control unit. Refer to <u>LAN-157</u>, "Inspection Between TCM and VDC/TCS/ABS Control Unit Circuit".

					CAN	N DIAG SL	IPPORT N	INTR					
SELECT SYS	TEM screen		- .				Receive	diagnosis				SELF-DIAG	BESUITS
	I Elwi Sorcen	Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN				_	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	_	_	Ι	CAN COMM CIRCUIT (U 1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN		-	UNKWN	-	-	UNKWN	_	-	CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	—	UNKWN		-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	_
												u : : : : :	



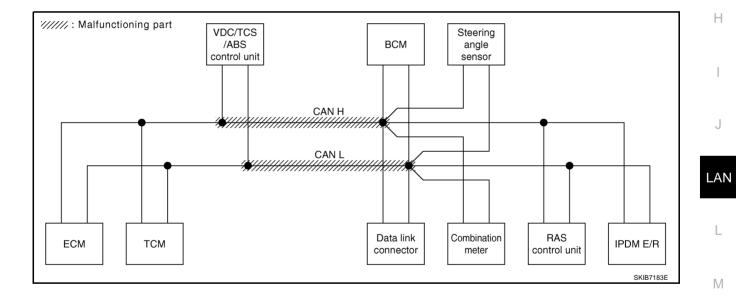
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Case 2

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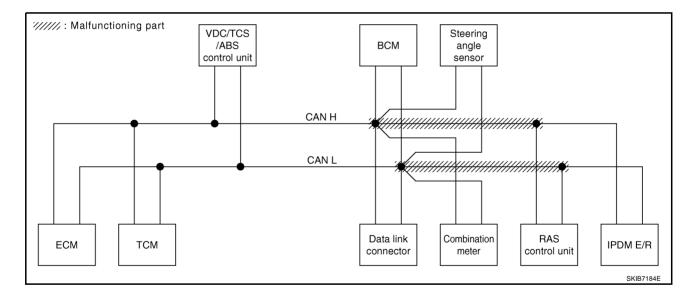
Check harness between VDC/TCS/ABS control unit and data link connector. Refer to <u>LAN-158</u>, "Inspection <u>A</u><u>Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit</u>".

					CA	N DIAG SL							
SELECT SYS	TEM screen	Initial	Transmit					diagnosis I			1	SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN			_	_		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN		-	-	-	-	CAN COMIN CIRCUIT (U N00)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-		-			-	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN		-	-	UNKWN	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	-	UNKWN		-		-	_	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	UNKWN	-	_	-	CAN COMM CIRCUIT (U 1000)	_
			ontrain	V.III				onnan				(U 10 00)	



Check between data link connector and RAS control unit. Refer to <u>LAN-159</u>, "Inspection Between Data Link <u>Connector and RAS Control Unit Circuit</u>".

					CAI	N DIAG SL	JPPORT N	INTR					
SELECT SYS	TEM screen		÷				Receive	diagnosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	—	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN		_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	_	NG	UNKWN	UNKWN		UNKWN	UNKWN		1	_	-	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	-	-		CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	-	_	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	—	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	-



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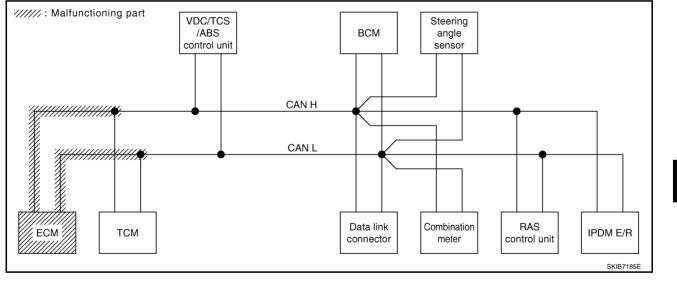
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Case 4

Check ECM circuit. Refer to LAN-160, "ECM Circuit Inspection" .

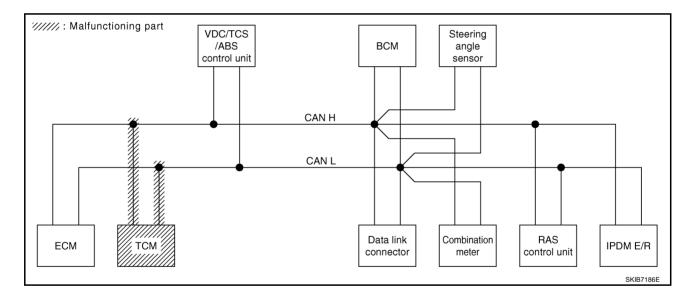
A/T NG UNKWN UNKWN UNKWN UNKWN - - - - CAN COMM CIRCUIT (U1000) - ABS - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) - - BCM No indication NG UNKWN UNKWN - UNKWN - - UNKWN CAN COMM CIRCUIT (U1000) - RAS/HICAS No indication - UNKWN UNKWN - - UNKWN - CAN COMM CIRCUIT (U1000) -						CAN	N DIAG SL	IPPORT N	INTR					
Initial diagnosis Indisinity diagnosis ECM TCM VDC/TCS METER MSEC STRG RAS IPDM E/R ENGINE - - UNKWN - UNKWN UNKWN UNKWN - - UNKWN CAN COMM CIRCUIT (UN00) CAN COMM CIRCUIT (UN00) CAN COMM CIRCUIT (UN00) A/T - NG UNKWN UNKWN - UNKWN - - CAN COMM CIRCUIT (UN00) - ABS - NG UNKWN UNKWN - UNKWN - - CAN COMM CIRCUIT (UN00) - BCM No indication NG UNKWN UNKWN - UNKWN - - CAN COMM CIRCUIT (UN00) - RAS/HICAS No indication - UNKWN - UNKWN - - UNKWN - - CAN COMM CIRCUIT (UN00) -	SELECT SYS	TEM screen	1	Treasurit				Receive	diagnosis	_	_		SELE-DIAG	BESUITS
A/T NG UNKWN UNKWN UNKWN UNKWN UNKWN - - - - CAN COMM CIRCUIT (U1000) - ABS - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) - - BCM No indication NG UNKWN UNKWN - UNKWN - - UNKWN CAN COMM CIRCUIT (U1000) - RAS/HICAS No indication - UNKWN UNKWN - - UNKWN - CAN COMM CIRCUIT (U1000) -	011101010				ECM	тсм				STRG	RAS			
ABS - NG UNKWN UNKWN - UNKWN - UNKWN UNKWN - CAN COMM CIRCUIT (U1000) - BCM No indication NG UNKWN UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - - RAS/HICAS No indication - UNKWN UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) -	ENGINE	-	_		_	UNKWN				—	_			CAN COMM CIRCUIT (UN01)
BCM No indication NG UNKWN UNKWN — — UNKWN — — UNKWN CAN COMM CIRCUIT (U1000) — RAS/HICAS No indication — UNKWN UNKWN — UNKWN — — UNKWN — — CAN COMM CIRCUIT (U1000) — —	A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	-	_	-			-
BCM No indication NG UNKWN UNKWN — — — — — — UNKWN (U1000) — RAS/HICAS No indication — UNKWN UNKWN — UNKWN — — UNKWN — — CAN COMM CIRCUIT (UN000) —	ABS	-	NG	UNKWN		UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
	всм	No indication	NG	UNKWN		-	-	UNKWN	-	-	-	UNKWN		-
	RAS/HICAS	No indication	—	UNKWN			UNKWN	—	_	UNKWN	—	-	CAN COMM CIRCUIT (U N00)	-
	IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	-



Check TCM circuit. Refer to LAN-161, "TCM Circuit Inspection" .

					CAN	N DIAG SL	IPPORT M	NTR					
SELECT SYS	TEM screen		+ .				Receive	diagnosis				SELF-DIAG	BESUITS
OLLLOT OTO		Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	_	UNKWN	-		UNKWN	UNKWN	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN		-		UNKWN	_	-	-	-	CAN COMM CIRCUIT (U 1000)	_
ABS	-	NG	UNKWN	UNKWN		_	UNKWN	-	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	Ι	UNKWN	UNKWN	-	-	-	UNKWN	-	-	Ι	CAN COMM CIRCUIT (U1000)	-

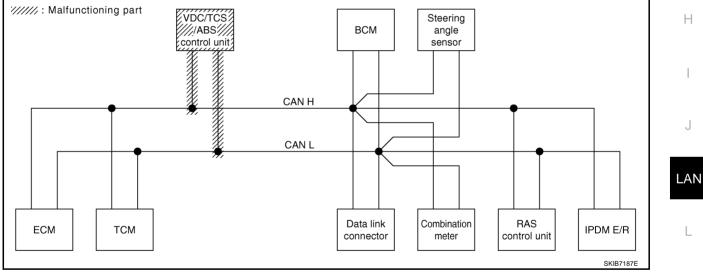
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Case 6

Check VDC/TCS/ABS control unit circuit. Refer to LAN-162, "VDC/TCS/ABS Control Unit Circuit Inspection" .

SELECT SYSTEM screen Initial diagnosis Transmit diagnosis Receive diagnosis SELF-DIAG RESULTS SELECT SYSTEM screen Initial diagnosis Transmit diagnosis Colspan="6">Tom VDC/TCS METER BCM //SEC STRG RAS IPDM E/R SELF-DIAG RESULTS ENGINE - - UNKWN - UNKWN UNKWN UNKWN UNKWN CAN COMM CIRCUIT (UN001) CAN COMM CIRCUIT (UN001) (UN001) A/T - NG UNKWN UNKWN - UNKWN - - - CAN COMM CIRCUIT (UN001) - ABS - VS UNKWN UNKWN - UNKWN - - CAN COMM CIRCUIT (UN001) - BCM No indication NG UNKWN UNKWN - UNKWN - - UNKWN - CAN COMM CIRCUIT (UN000) - BCM No indication NG UNKWN - UNKWN - - UNKWN CAN COMM CIRCUIT (UN000)				1	1	CAN	N DIAG SU							
diagnosis diagnosis ECM TCM VDC/TCS METER (M&A BCM (SEC STRG RAS IPDM E/R ENGINE — — UNKWN — UNKWN UNKWN UNKWN — — UNKWN CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1001) A/T — NG UNKWN UNKWN UNKWN — — — UNKWN CAN COMM CIRCUIT (U1000) — ABS — VA UNKWN UNKWN — UNKWN — — — CAN COMM CIRCUIT (U1000) — BCM No indication NG UNKWN UNKWN — UNKWN — UNKWN — CAN COMM CIRCUIT (U1000) — BCM No indication NG UNKWN UNKWN — UNKWN — UNKWN — CAN COMM CIRCUIT (U1000) — RAS/HICAS No indication — UNKWN UNKWN — — UNKWN — — CAN COMM CIRCUIT (U1000) — IPDM E/R No indication — UNKWN —	SELECT SYS	STEM screen	Initial	Transmit				Receive	diagnosis				SELF-DIAG	RESULTS
A/T NG UNKWN UNKWN UNKWN UNKWN UNKWN - - - CAN COMM CIRCUIT (UM00) - ABS - VA UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT (UM000) - BCM No indication NG UNKWN UNKWN - UNKWN - - UNKWN CAN COMM CIRCUIT (UM00) - RAS/HICAS No indication - UNKWN UNKWN - UNKWN - - UNKWN CAN COMM CIRCUIT (UM00) - IRDM E/Z No indication - UNKWN - UNKWN - - UNKWN - - CAN COMM CIRCUIT (UM00) - IRDM E/Z No indication - UNKWN - - UNKWN - - CAN COMM CIRCUIT -					ECM	тсм				STRG	RAS			
ABS - VS UNKWN UNKWN - UNKWN - - - - CAN COMM CIRCUIT (UM00) - BCM No indication NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT (UM00) - RAS/HICAS No indication - UNKWN UNKWN - - UNKWN - - CAN COMM CIRCUIT (UM00) - IRDM E/P No indication - UNKWN - - UNKWN - - CAN COMM CIRCUIT (UM00) -	ENGINE	-	—	UNKWN	_	UNKWN		UNKWN	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
ABS Image: Constraint of the constrain	A/T	-	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	-	—	—	CAN COMM CIRCUIT (UN00)	_
BCM No indication NG UNKWN UNKWN — — — — UNKWN (U1000) — RAS/HICAS No indication — UNKWN UNKWN — UNKWN — — UNKWN (U1000) — IRDM E/R No indication — UNKWN UNKWN — UNKWN — — CAN COMM CIRCUIT	ABS	-	V	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
	всм	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN		-
	RAS/HICAS	No indication	—	UNKWN	UNKWN	-		_	_	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	-
	IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-



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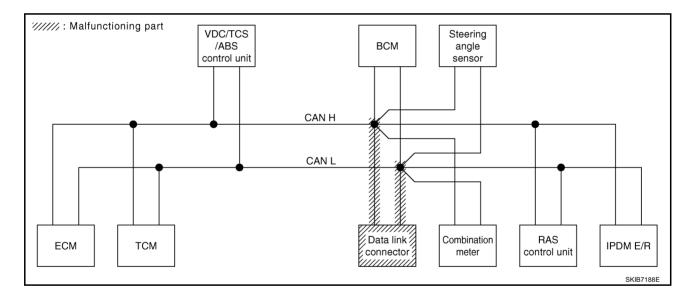
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Check data link connector circuit. Refer to LAN-162, "Data Link Connector Circuit Inspection" .

					CAN	N DIAG SL	PPORT N	INTR					
SELECT SYS	TEM screen		- .				Receive	diagnosis				SEL E-DIAG	RESULTS
OLLLOT OTO		Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	_	_	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	_	UNKWN	UNKWN	-	UNKWN	—	-	UNKWN			CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	-	UNKWN	-	-	Ι	CAN COMM CIRCUIT (U1000)	—

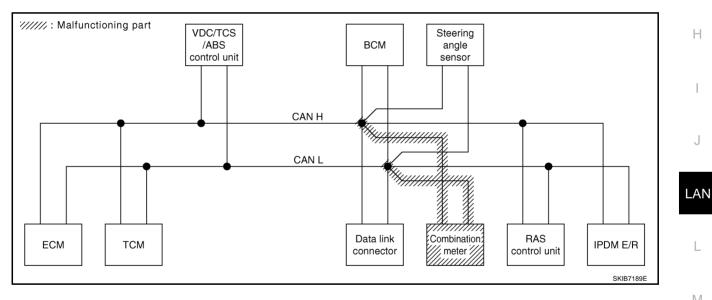
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Case 8

Check combination meter circuit. Refer to LAN-163, "Combination Meter Circuit Inspection" .

					CAN	N DIAG SL	PPORT N	NTR					
SELECT SYST	TEM screen	l a Mart	Transit				Receive	diagnosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	OLLI DINC	
ENGINE	_	_	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN		-	-	-	-	CAN COMM CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-		_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	-	UNKWN	_	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	_	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_



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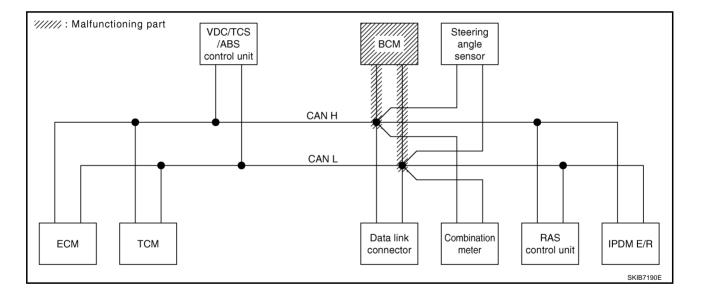
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Check BCM circuit. Refer to LAN-163, "BCM Circuit Inspection" .

					CAN	N DIAG SL	IPPORT M	NTR					
SELECT SYS	TEM screen		+				Receive	diagnosis				SELF-DIAG	RESULTS
022201010		Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN		-	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	—	—	—	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	Ι	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN		-	UNKWN	Ι		-	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	_	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	Ι	UNKWN	UNKWN	-	-	Ι			-	Ι	CAN COMM CIRCUIT (U 1000)	-

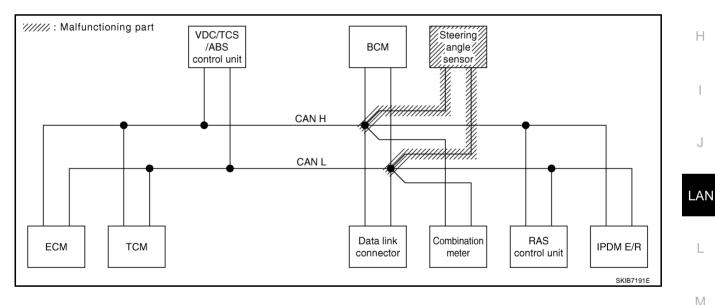
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Case 10

Check steering angle sensor circuit. Refer to LAN-164, "Steering Angle Sensor Circuit Inspection" .

					CA	N DIAG SU	JPPORT N	INTR					
SELECT SYS	TEM screen		-				Receive	diagnosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	-	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	—	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication		UNKWN	UNKWN	—	UNKWN	—	-		-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	—	_	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-



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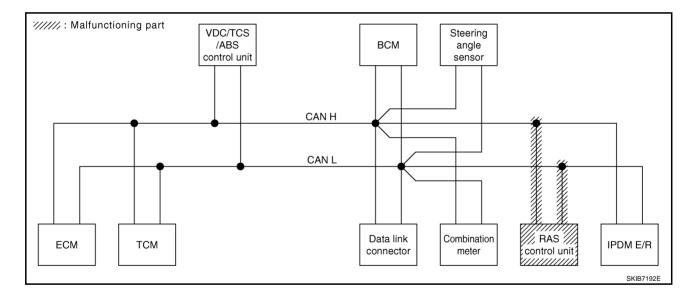
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Check RAS control unit circuit. Refer to LAN-164, "RAS Control Unit Circuit Inspection" .

					CAN	N DIAG SL	JPPORT N	INTR					
SELECT SYS	TEM screen	La Mart	Treasait				Receive	diagnosis				SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	OLLI DIRC	
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	UNKWN		-	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN		-	UNKWN	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	-	UNKWN	UNKWN		UNKWN	—	_	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	Ι	-	-	UNKWN	Ι	-	-	CAN COMM CIRCUIT (U1000)	_

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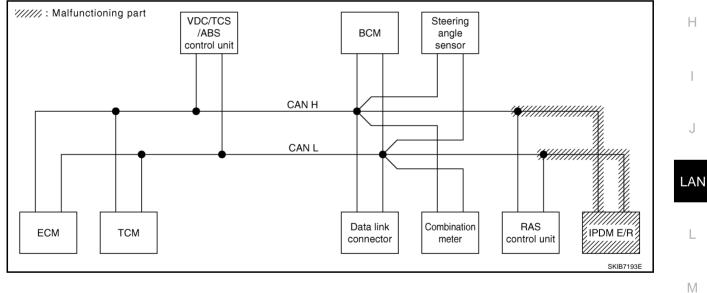
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Case 12

Check IPDM E/R circuit. Refer to LAN-165, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM screen Initial diagnosis Transmit diagnosis Receive diagnosis SELF-DIA RESULTS ENGINE - - UNKWN CAN CAN COMM CIRCUIT (U1000) CAN C
Initial diagnosis In
A/T - NG UNKWN UNKWN - UNKWN - - - CAN COMM CIRCUIT (U1000) - ABS - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) - BCM No indication NG UNKWN UNKWN - - - - UNKWN - - - - CAN COMM CIRCUIT (U1000) -
APT NG UNKWN UNKWN Ultime Ultime Ultime Ultime
ABS - NG UNKWN UNKWN ONKWN - UNKWN - UNKWN - (U1000) - BCM No indication NG UNKWN UNKWN - - UNKWN - - UNKWN - - - UNKWN - - - UNKWN -
IPDM E/R No indication - UNKWN UNKWN UNKWN CAN COMN CIRCUIT -



Revision: 2006 August

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Case 13

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Check CAN communication circuit. Refer to LAN-166, "CAN Communication Circuit Inspection" .

					CAN	N DIAG SL	IPPORT N	INTR					
SELECT SYS	TEM screen						Receive	diagnosis				SELF-DIAG	RESULTS
OLLEOT OTO		Initial diagnosis	Transmit diagnosis	ECM	тсм	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	I		_					_	-		CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 1000)	-
ABS	-	V				-		-			-	CAN COMM CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	-	UNKWN	-	_	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	-

Case 14

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN	N DIAG SL	JPPORT N	INTR					
SELECT SYST	EM coroon		_				Receive	diagnosis				SELF-DIAG	DEQUITO
SELECT STOT		Initial diagnosis	Transmit diagnosis	ECM	ТСМ	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SELF-DIAG	I NEGULI G
ENGINE	—	_	UNKWN	_			UNKWN	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	_	—	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	_	_	_	UNKWN	(01000)	_
RAS/HICAS	No indication	_	UNKWN	UNKWN	-		_	_	UNKWN	-	-	CAN COMIN CIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	_	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
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Case 15

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

					NTR	PPORT M	I DIAG SU	CAN					
B RESULTS	SELF-DIAG				diagnosis	Receive				Transmit	Initial	EM screen	SELECT SYS
		IPDM E/R	RAS	STRG	BCM /SEC	METER /M&A	VDC/TCS /ABS	тсм	ECM				
(U1001)	CAN COMM CIRCUIT (U1000)	UNKWIN	-	—	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	_	—	ENGINE
	CAN COMIN CIRCUIT (U N00)		-	-	-	-	UNKWN	-	-	UNKWN	NG	-	A/T
_	CAN COMIN CIRCUIT (U N00)	-	-	-	-	-	-	UNKWN	-	UNKWN	NG	-	ABS
-	CAN COMM CIRCUIT (U1000)	UNKWN	-	-	-	UNKWN	-	-	UNKWN	UNKWN	NG	No indication	BCM
-	CAN COMM CIRCUIT (U1000)	-	-	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	-	No indication	RAS/HICAS
-	CAN COMM CIRCUIT (U1000)	-	-	_	UNKWN	-	-	-	UNKWN	UNKWN	_	No indication	IPDM E/R

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	[CAN]
CAN SYSTEM (TYPE 8)	PFP:23710
Component Parts and Harness Connector Location	NKS00277
Refer to LAN-21, "Component Parts and Harness Connector Location".	
Schematic	NKS00278
Refer to LAN-22, "Schematic".	
Wiring Diagram — CAN —	NKS00279
Refer to LAN-23, "Wiring Diagram — CAN —".	

Check Sheet

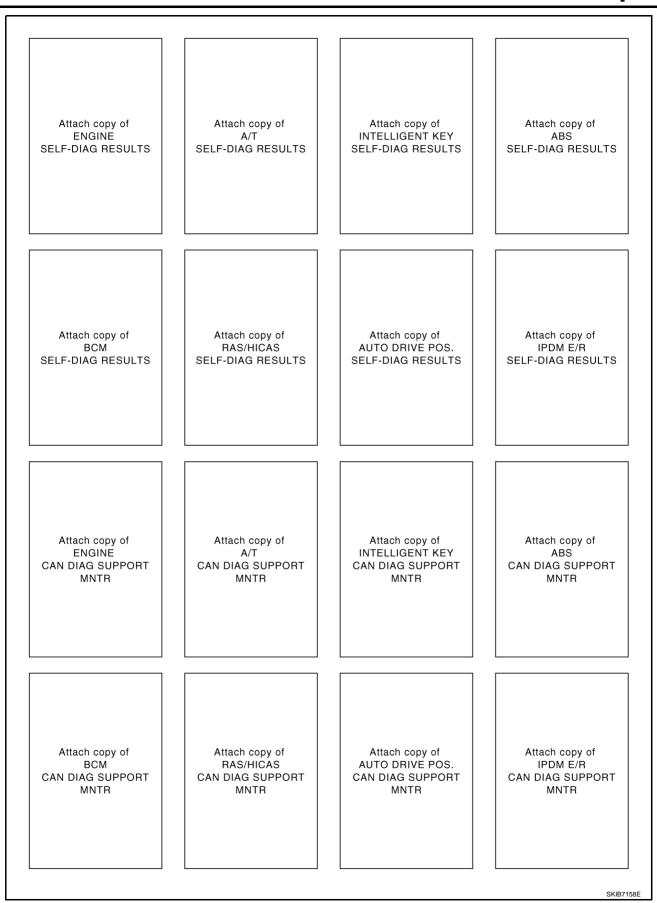
NOTE:

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

SELECT SYSTEM screen Initial Tangent diagnosis Tangent diagnosis Tech I-KEY VOC/TCS METER MSC SCM TEG PDM ENGINE - - UNKWN - UNKWN - UNKWN - UNKWN UNKWN - UNKWN UNKWN UNKWN - - UNKWN CAN COMM CIRCUIT (AN COMM CIR (U100)) - - UNKWN UNKWN - - CAN COMM CIRCUIT (U1000) - - UNKWN UNKWN UNKWN UNKWN - - - CAN COMM CIRCUIT (U1000) - - UNKWN UNKWN - - - CAN COMM CIRCUIT (U1000) - - U1000) - - (U1000) - (U1000) - - (U1000) - - (U1000) - (U1000) - (U1000) - - (U1000) - (U1000) - (U1000) - - - (U1000) - - - UNKWN - <td< th=""><th>1 N CAN COMM CIRCUIT CAN COMM CIRCUI' (U1000) (U1001) CAN COMM CIRCUIT (U1000) - CAN COMM CIRCUIT (U1000) - (U1000) - CAN COMM CIRCUIT (U1000) - CAN COMM CIRCUIT</th><th>STRG RAS CWN — — — — — — — — — — — — UNKWN UNKW — — — — UNKWN UNKW</th><th>ER BCM /SEC WN UNKWN WN WN UNKWN WN WN</th><th>DC/TCS METE /ABS /M&A JNKWN UNKW JNKWN UNKW — UNKW — UNKW</th><th></th><th>UNKWN</th><th>UNKWN</th><th>diagnosis UNKWN</th><th>diagnosis —</th><th></th><th>SELECT SYST</th></td<>	1 N CAN COMM CIRCUIT CAN COMM CIRCUI' (U1000) (U1001) CAN COMM CIRCUIT (U1000) - CAN COMM CIRCUIT (U1000) - (U1000) - CAN COMM CIRCUIT (U1000) - CAN COMM CIRCUIT	STRG RAS CWN — — — — — — — — — — — — UNKWN UNKW — — — — UNKWN UNKW	ER BCM /SEC WN UNKWN WN WN UNKWN WN WN	DC/TCS METE /ABS /M&A JNKWN UNKW JNKWN UNKW — UNKW — UNKW		UNKWN	UNKWN	diagnosis UNKWN	diagnosis —		SELECT SYST
diagnosis ECM TCM I-KEY VDC/TCS /ABS METER /ABS BCM /SEC STRG RAS IPDM E/R INGINE — — UNKWN — UNKWN — UNKWN CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) — /T — NG UNKWN UNKWN — — UNKWN — — CAN COMM CIRCUIT (U1000) — /T — NG UNKWN UNKWN — — UNKWN — — CAN COMM CIRCUIT (U1000) — /TELLIGENT KEY No indication — UNKWN UNKWN — — UNKWN UNKWN — — CAN COMM CIRCUIT (U1000) — /BS — NG UNKWN UNKWN — — UNKWN — UNKWN — CAN COMM CIRCUIT (U1000) — icM No indication NG UNKWN UNKWN — UNKWN — — UNKWN — CAN COMM CIRCUIT (U1000) — icAS/HICAS	Image: Normal System CAN COMM CIRCUIT (U1000) (U1001) CAN COMM CIRCUIT (U1000)	EC STHG HAS WN — — - — — WN — — WN — — WN — — WN — — UNKWN UNKWN — — — — — UNKWN —	A /SEC WN UNKWN WN - WN UNKWN WN - WN -	/ABS /M&A JNKWN UNKW — UNKW — UNKW		UNKWN	UNKWN	diagnosis UNKWN	diagnosis —	_	
NGINE Image: Construction Im	(U1000) (U1001) CAN COMM CIRCUIT (U1000) - CAN COMM CIRCUIT (U1000) - CAN COMM CIRCUIT (U1000) - /N CAN COMM CIRCUIT (U1000) -	 - UNKWN UNKW - UNKWN -	wn — wn unkwn wn — wn —	JNKWN UNKW — UNKW — UNKW	-	_	UNKWN			_	
T NG UNKWN UNKWN — — UNKWN UNKWN — Image: Constraint of the image: Constrainton of the i	CAN COMM CIRCUIT (U1000)	- UNKWN UNKW 	WN UNKWN WN - WN -	— Unkw — Unkw	_			UNKWN	NC		NGINE
ELLIGENT KEY No indication - UNKWN UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - ISS - NG UNKWN UNKWN UNKWN - UNKWN UNKWN - CAN COMM CIRCUIT (U1000) - IM No indication NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) - IM No indication NG UNKWN UNKWN - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - IS/HICAS No indication - UNKWN UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - TO DRIVE POS. No indication - - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - DM E/R No indication - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) -	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) (N CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) 	- UNKWN UNKW 	WN — WN —	– UNKW		_			NG	-	r
BS - NG UNKWN UNKWN - - UNKWN - UNKWN UNKWN - CAN COMM CIRCUIT (U1000) - CM No indication NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT (U1000) - AS/HICAS No indication - UNKWN UNKWN - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - JTO DRIVE POS No indication - - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - DM E/R No indication - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) -	CAN COMM CIRCUIT (U1000)	- <u> </u>	wn —		_		UNKWN	UNKWN	-	No indication	TELLIGENT KEY
CM No indication NG UNKWN <	IN CAN COMM CIRCUIT (U1000)	– UNKWN –				UNKWN	UNKWN	UNKWN	NG	-	BS
AS/HICAS No indication - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - JTO DRIVE POS. No indication - - UNKWN - - - CAN COMM CIRCUIT (U1000) - PDM E/R No indication - UNKWN - - - UNKWN - - CAN COMM CIRCUIT (U1000) -	CAN COMM CIRCUIT				UNKWN	_	UNKWN	UNKWN	NG	No indication	СМ
ITO DRIVE POS. No indication - - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - DM E/R No indication - UNKWN - - - - CAN COMM CIRCUIT (U1000) - - - - - CAN COMM CIRCUIT (U1000) - - - - - - CAN COMM CIRCUIT (U1000) - - - - - - CAN COMM CIRCUIT (U1000) -	CAN COMM CIRCUIT	(WN — —		JNKWN —	_	_	UNKWN	UNKWN	_	No indication	AS/HICAS
PDM E/R No indication — UNKWN UNKWN — — — — UNKWN — — — — CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT		WNUNKWN	— илки	_	UNKWN	_	_	_	No indication	JTO DRIVE POS.
	of	(WN	- UNKWN		_	_	UNKWN	UNKWN	_	No indication	PDM E/R
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CHECK SHEET RESULTS (EXAMPLE)

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Intelligent

Key unit

NOTE:

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

Case 1

В Check harness between TCM and VDC/TCS/ABS control unit. Refer to LAN-157, "Inspection Between TCM and VDC/TCS/ABS Control Unit Circuit" .

					(CAN DIAC	G SUPPC	ORT MNTI	٦					
SELECT SYS	TEM screen						Re	ceive dia	gnosis					G RESULTS
SELECT CTO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	-	UNKWN	-	UNKWN	-	UNKWN			-	_	UNKWN	CAN COMM CIRCUIT (U1000)	
A/T	_	NG	UNKWN	UNKWN	—	-	UNKWN		_	-	-	—	CAN COMM CIRCUIT (UN00)	_
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	-	-	UNKWN	UNKWN	-	-	—	CAN COMM CIRCUIT (UN00)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	—	CAN COMM CIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	-	-	-	UNKWN	(01000)	_
RAS/HICAS	No indication	-	UNKWN	UNKWN	—	-	UNKWN	_	-	UNKWN	-	—	CAN COMM CIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	-	UNKWN	UNKWN	-	-	—	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	_
	functioning	g part		VDC/T					BCM			ering gle	Driver seat	SKIB7126E
				control	unit						ser	isor		

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Data link

connector

Combination

meter

RAS

control unit

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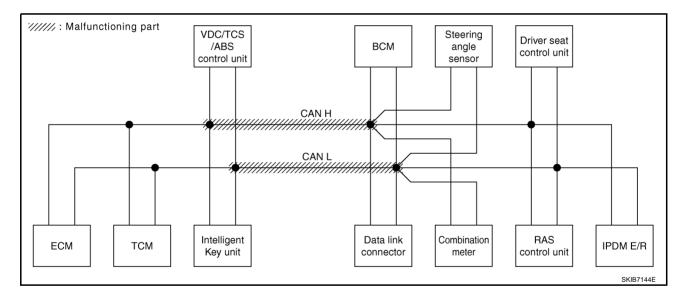
ECM

IPDM E/R

SKIB7143E

Check harness between VDC/TCS/ABS control unit and data link connector. Refer to <u>LAN-158</u>, "Inspection <u>Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit</u>".

					C	CAN DIAC	G SUPPO	RT MNT	٦					
SELECT SYS	FM screen	Initial	T				Re	ceive dia	gnosis				SELF-DIAG	BESULTS
			Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	ļ	UNKWN	_	UNKWN	—	UNKWN	UNKWN	UNKWN	—			CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	_	NG	UNKWN	UNKWN	-	—	UNKWN	UNKWN	_	_	-	_	CAN COMIN CIRCUIT (U N00)	_
INTELLIGENT KEY	No indication	ļ	UNKWN	UNKWN	Ι	—	—	UNKWN	UNKWN		1	-	CAN COMIN CIRCUIT (U N00)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-			_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN		-	UNKWN	-	UNKWN	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-	_	CAN COMIN CIRCUIT (U N00)	_
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	-	-	UNKWN	UNKWN	-	_	_	CAN COMIN CIRCUIT (U 1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	Ι	—	-	—	UNKWN		-	-	CAN COMIN CIRCUIT (U N00)	_



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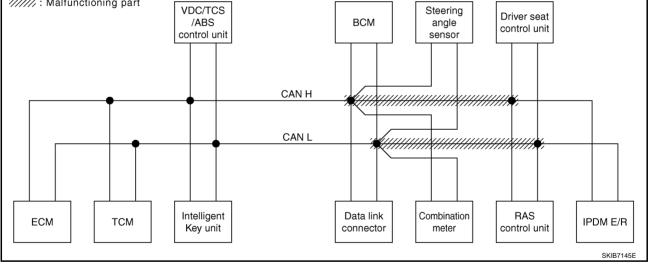
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Case 3

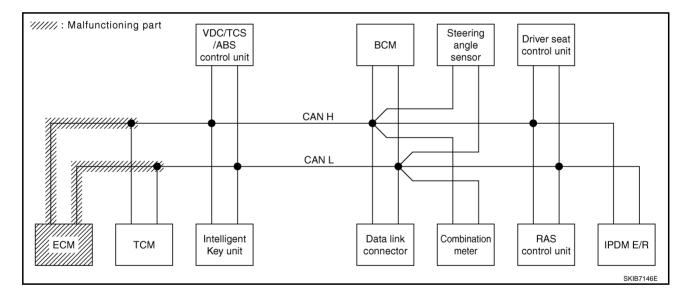
Check harness between data link connector and RAS control unit. Refer to <u>LAN-159</u>, "Inspection Between <u>A</u> <u>Data Link Connector and RAS Control Unit Circuit</u>".

					C	CAN DIAG	SUPPO	RT MNT	3					
SELECT SYS	FFM screen	la Mal	T				Re	ceive dia	gnosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	—	UNKWN	—	UNKWN		UNKWN	UNKWN	UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	_	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	-	—	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	-	UNKWN	UNKWN	—	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN		_	UNKWN	-	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	-		CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	—	UNKWN	UNKWN	-	-	UNKWN		—	UNKWN	-	-	CAN COMM CIRCUIT (U N00)	_
AUTO DRIVE POS.	No indication	—	-	—	UNKWN	-	-	UNKWN	UNKWN	—	-	-	CAN COMM CIRCUIT (U N00)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	_	-	_	_	UNKWN	_	-	-	CAN COMM CIRCUIT (U 1000)	_
		1	1	I						I	1		(01000)	
														SKIB7128E



Check ECM circuit. Refer to LAN-160, "ECM Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR												
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								SELF-DIAG RESULTS		
				ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SEE -DIAG RESOLTS	
ENGINE	-	_	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCU (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U 1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U N00)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	_
AUTO DRIVE POS.	No indication	_	_	-	UNKWN	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNK	_	_	-	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U 1000)	_



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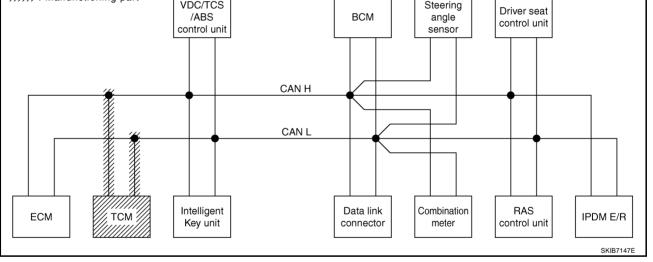
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Case 5

Check TCM circuit. Refer to LAN-161, "TCM Circuit Inspection" .

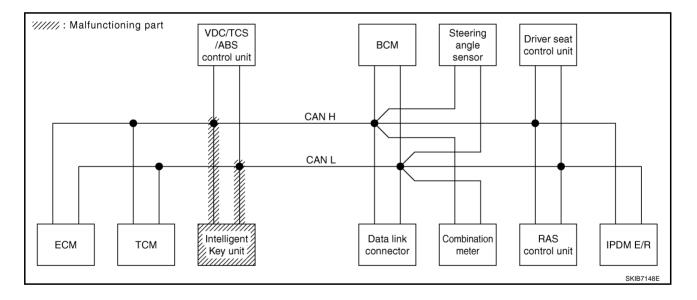
SELECT SYSTEI		Initial diagnosis	Transmit diagnosis				Re	ceive diag	nosis					
													SELF-DIAC	G RESULTS
			alagitoolo	ECM	ТСМ	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
LINGINE	—	_	UNKWN	-	UNKWN	I	UNKWN	UNKWN	UNKWN	—	_	UNKWN		CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	1	UNKWN		-	_	-	-	CAN COMM CIRCUIT (U 1000)	_
	lo indication	_	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	Ι	Ι	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN		Ι	—	UNKWN	Ι	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
BCM No	lo indication	NG	UNKWN	UNKWN	-	UNKWN	—	UNKWN	Ι			UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS No	lo indication	_	UNKWN	UNKWN	-	_	UNKWN	-	Ι	UNKWN	-	Ι	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS. No	lo indication	—	-	-	UNK	_	-	UNKWN	UNKWN	-	_	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R No	lo indication	—	UNKWN	UNKWN	-	_	_	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	-



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Check Intelligent Key unit circuit. Refer to LAN-161, "Intelligent Key Unit Circuit Inspection" .

					(CAN DIAG	SUPPO	RT MNT	٦					
SELECT SYST	EM screen	Initial	Transmit				Re	ceive diag	gnosis				SELF-DIAG	BESULTS
			diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	ļ	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-		UNKWN	UNKWN	—	Ι	-	Ι	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	1	UNKWN	UNKWN	-		1	UNKWN	UNKWN	Ι	_	-	CAN COMM CIRCUIT (U N00)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN		-	UNKWN	—	UNKWN		_	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN		UNKWN	_	UNKWN	—	Ι	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	-	UNKWN	UNKWN	-	-	UNKWN	—	—	UNKWN	-	Ι	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	_	_	UNKWN	-	-	UNKWN	UNKWN	Ι	-	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	_	-	UNKWN	Ι	-	Ι	CAN COMM CIRCUIT (U1000)	_
														SKIB7131E



Case 7

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А Check VDC/TCS/ABS control unit circuit. Refer to LAN-162, "VDC/TCS/ABS Control Unit Circuit Inspection" .

BCM No indication NG UNKWN						C	CAN DIAG	SUPPO	RT MNTF	۲					
Initiation diagnosis TCM I-KEY VDC/TCS M&A /SEC STRG RAS IPDM ENGINE - - UNKWN - - - CAN COMM CIRCUIT - - UNKWN - <th></th> <th>TEM screen</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Red</th> <th>ceive diag</th> <th>gnosis</th> <th></th> <th></th> <th></th> <th></th> <th>DESINTS</th>		TEM screen						Red	ceive diag	gnosis					DESINTS
A/T - NG UNKWN UNKWN - - CAN COMM CIRCUIT - INTELLIGENT KEY No indication - UNKWN UNKWN - - - CAN COMM CIRCUIT - ABS - V UNKWN UNKWN - - - CAN COMM CIRCUIT - BCM No indication NG UNKWN UNKWN - - - CAN COMM CIRCUIT - BCM No indication NG UNKWN UNKWN - UNKWN - - UNKWN CAN COMM CIRCUIT - BCM No indication - UNKWN UNKWN - UNKWN - - UNKWN CAN COMM CIRCUIT - (UN000) - RAS/HICAS No indication - UNKWN - - UNKWN - - CAN COMM CIRCUIT - (UN000) - - CAN COMM CIRCUIT - - CAN COMM CIRCUIT - (UN00) - - CAN COMM CIRCUIT - - CAN COMM CIRCUIT - - </th <th>OLLLOT OTO</th> <th>LWISCIEEN</th> <th></th> <th></th> <th>ECM</th> <th>тсм</th> <th>I-KEY</th> <th>VDC/TCS /ABS</th> <th></th> <th>BCM /SEC</th> <th>STRG</th> <th>RAS</th> <th></th> <th></th> <th></th>	OLLLOT OTO	LWISCIEEN			ECM	тсм	I-KEY	VDC/TCS /ABS		BCM /SEC	STRG	RAS			
INTELLIGENT KEY No indication - UNKWN UNKWN - - - CAN COMM CIRCUIT (U1000) - ABS - VS UNKWN UNKWN - - UNKWN UNKWN - CAN COMM CIRCUIT (U1000) - BCM No indication NG UNKWN UNKWN - UNKWN - - UNKWN - CAN COMM CIRCUIT (U1000) - BCM No indication - UNKWN UNKWN - UNKWN - - - UNKWN - - CAN COMM CIRCUIT (U1000) - RAS/HICAS No indication - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - AUTO DRIVE POS, No indication - - - UNKWN - - - CAN COMM CIRCUIT (U1000) - IPDM E/R No indication - UNKWN - - - UNKWN - - - CAN COMM CIRCUIT (U1000) - - SKIB7132E W////////////////////////////////////	ENGINE	_	—	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
INTELLIGENT RET No indication - OKKWN UNKWN - <td>A/T</td> <td>_</td> <td>NG</td> <td>UNKWN</td> <td>UNKWN</td> <td>_</td> <td>—</td> <td>UNKWN</td> <td>UNKWN</td> <td>—</td> <td>-</td> <td>-</td> <td>_</td> <td>CAN COMM CIRCUIT (U 1000)</td> <td>_</td>	A/T	_	NG	UNKWN	UNKWN	_	—	UNKWN	UNKWN	—	-	-	_	CAN COMM CIRCUIT (U 1000)	_
BCM No indication NG UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN CAN COMM CIRCUIT (U1000) - RAS/HICAS No indication - UNKWN UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - AUTO DRIVE POS. No indication - - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - IPDM E/R No indication - UNKWN - - - UNKWN - - CAN COMM CIRCUIT (U1000) - IPDM E/R No indication - UNKWN - - - UNKWN - - - CAN COMM CIRCUIT (U1000) - IPDM E/R No indication - UNKWN - - - UNKWN - - - CAN COMM CIRCUIT (U1000) - - - CAN COMM CIRCUIT (U1000) - - - - CAN COMM CIRCUIT (U1000) - - - - CAN COMM CIRCUIT (U1000) - - SKIB7132E '/	INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	-	-	UNKWN	UNKWN	-	_	_	(U1000)	_
BCM No indication No indication No indication UNKWN UNKWN UNKWN - - - UNKWN (U1000) - RAS/HICAS No indication - UNKWN UNKWN - - UNKWN - - CAN COMM CIRCUIT - AUTO DRIVE POS No indication - - UNKWN - - UNKWN - - CAN COMM CIRCUIT - IPDM E/R No indication - UNKWN - - - UNKWN - - CAN COMM CIRCUIT - IPDM E/R No indication - UNKWN - - - UNKWN - - - CAN COMM CIRCUIT - IPDM E/R No indication - UNKWN - - - UNKWN - - - CAN COMM CIRCUIT - - SkiB7132E '////////////////////////////////////	ABS	_	V			UNKWN		Ι		-	UNKWN	UNKWN	_		_
AUTO DRIVE POS. No indication UNKWN UNKWN UNKWN CAN COMM CIRCUIT (U1000) - IPDM E/R No indication - UNKWN UNKWN UNKWN CAN COMM CIRCUIT - (U1000) - CAN COMM CIRCUIT - (U1000) - CAN COMM CIRCUIT - (U1000) - CAN COMM CIRCUIT - CAN C	всм	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN		-	-	UNKWN	(U1000)	_
ADIO DRIVE POS ING Indication - <t< td=""><td>RAS/HICAS</td><td>No indication</td><td>—</td><td>UNKWN</td><td>UNKWN</td><td>—</td><td>-</td><td>UNKWN</td><td>_</td><td>—</td><td>UNKWN</td><td>-</td><td>-</td><td></td><td>_</td></t<>	RAS/HICAS	No indication	—	UNKWN	UNKWN	—	-	UNKWN	_	—	UNKWN	-	-		_
IPDM ER No indication –	AUTO DRIVE POS	No indication	—	-	-	UNKWN	-	Ι	UNKWN	UNKWN	-	-	-		_
SKIB7132E	IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	1	_	UNKWN	-	-			_
VDC/TCS Steering angle control unit Driver seat control unit															SKIB7132E
	<i>`/////</i> : Mal	functioning	n part			····									
	<i>'/////</i> : Mal	functioning	g part		///ABS	unit				BCM		an	gle		

Data link

connector

Combination

meter

Intelligent

Key unit

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IPDM E/R

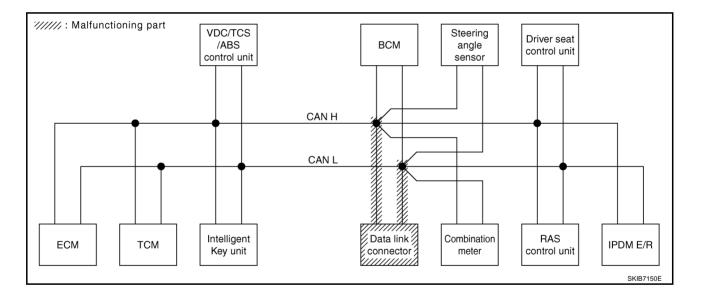
SKIB7149E

RAS

control unit

Check data link connector circuit. Refer to LAN-162, "Data Link Connector Circuit Inspection" .

					(CAN DIAC	SUPPO	RT MNT	٦					
SELECT SYS	TEM screen						Re	ceive dia	gnosis				SELF-DIAG	
		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	—	UNKWN	_	UNKWN	—	UNKWN	UNKWN	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	—	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	Ι	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	—	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	—	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	—	_	_	UNKWN	_	_	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_



Case 9

Check combination meter circuit. Refer to LAN-163, "Combination Meter Circuit Inspection"

					C	CAN DIAG	SUPPO	RT MNTF	٦					
SELECT SYS	FFM screen	Initial	Transit				Re	ceive diag	gnosis				SELF-DIAG	BESUITS
			Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	_	UNKWN	-	UNKWN	—	UNKWN	UNKWN	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	—	-	-	_	CAN COMM CIRCUIT (U N00)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	—	—	-	UNKWN	UNKWN	-	-	_	CAN COMM CIRCUIT (U 1000)	_
ABS	—	NG	UNKWN	UNKWN	UNKWN	-	-		-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	-	UNKWN	UNKWN	_	_	UNKWN	-	-	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	_	-	UNKWN	UNKWN	-	-	_	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	-	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	-
														SKIB7134E
////// : Malf	unctioning	g part										.]		
				VDC/T /ABS control i	;				BCM			ering gle	Driver seat control unit	

CAN H

CAN L

Intelligent

Key unit

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Data link

connector

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control unit

Combination

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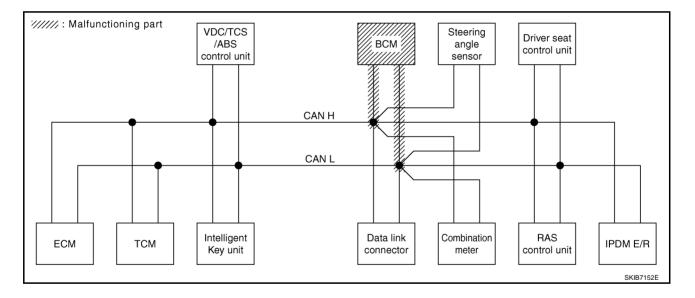
IPDM E/R

SKIB7151E

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Check BCM circuit. Refer to LAN-163, "BCM Circuit Inspection" .

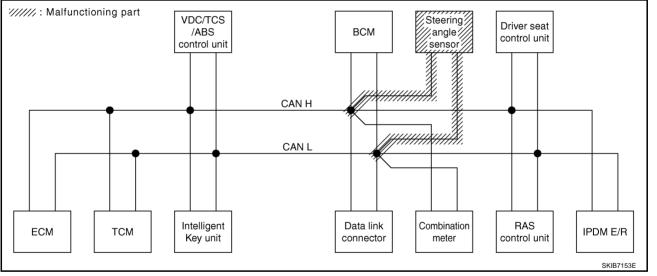
					C	CAN DIAC	G SUPPO	RT MNT	3					
SELECT SYS	TEM screen		-				Re	ceive diag	gnosis				SELF-DIAG	BESINTS
SELECT STO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SELI-DIAC	I NEGOLI G
ENGINE	_	_	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN		_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
A/T	—	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN			-	—	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	-	-	CAN COMIN CIRCUIT (U N00)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	_	-	UNKWN	_	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	-	_	UNKWN	-	-	-	CAN COMM CIRCUIT (U 1000)	_



Case 11

Check steering angle sensor circuit. Refer to LAN-164, "Steering Angle Sensor Circuit Inspection" .

					C	CAN DIAG	SUPPO	RT MNT	٦					
SELECT SYS	TEM screen		-				Re	ceive dia	gnosis				SELF-DIAG	RESULTS
OLLEOT OTO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		HEODERO
ENGINE	_	—	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	—	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	Ι	-	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	—	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	—	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	—	UNKWN	UNKWN	_	-	UNKWN	_	—	UNKWN	-	—	CAN COMIN CIRCUIT (U N00)	_
AUTO DRIVE POS.	No indication	—	—	-	UNKWN	1	—	UNKWN	UNKWN	—	-	—	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
	1		1								1		()	
														SKIB7136E



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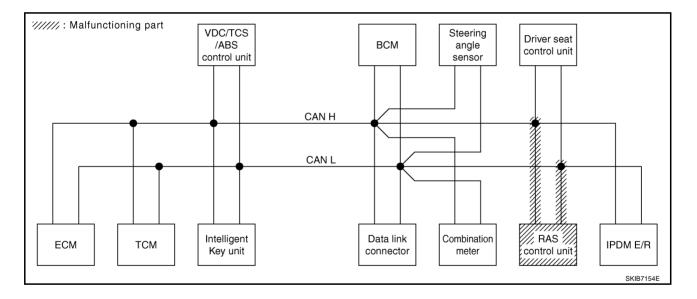
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Check RAS control unit circuit. Refer to LAN-164, "RAS Control Unit Circuit Inspection" .

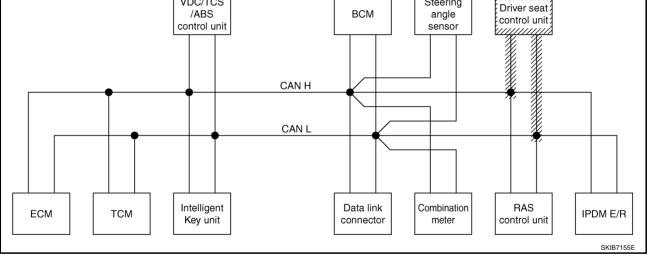
					(CAN DIAC	SUPPO	RT MNT	3					
SELECT SYS	EM screen		-				Re	ceive diag	nosis				SELF-DIAG	
SELECT STO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SELI-DIAC	I NEGOLI G
ENGINE	_	—	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	_	NG	UNKWN	UNKWN	Ι	-	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	_	-	UNKWN	-	-	UNKWN	-	_	CAN COMM CIRCUIT (U N00)	_
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	-	_	UNKWN	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	-



Case 13

Check driver seat control unit circuit. Refer to LAN-165, "Driver Seat Control Unit Circuit Inspection" .

					C	CAN DIAG	SUPPO	RT MNTE	٦					
SELECT SYS	TEM screen						Re	ceive diag	gnosis				SELF-DIAG	RESULTS
SELECT CTO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	—	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	—	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	-	—	UNKWN	UNKWN	—	_	-	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	Ι	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	—	UNKWN	UNKWN	Ι	-	UNKWN	-	—	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	—	-	-	UNKWN	-	-	UNKWN	UNKWN	—	-	-	CAN COMIN CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	Ι	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	—
				•										
														SKIB7138E
	•		— UNKWN		_			-	-				(U ₩ 00) CAN COMM CIRCUIT	



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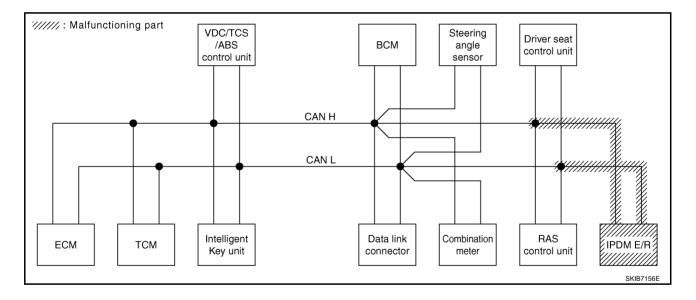
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Check IPDM E/R circuit. Refer to LAN-165, "IPDM E/R Circuit Inspection" .

					(CAN DIAC	SUPPO	RT MNT	٦					
SELECT SYS	TEM screen		-				Re	ceive diag	nosis				SELF-DIAG	
SELECT STO		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R	SELI-DIAC	
ENGINE	_	_	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	_	_		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	_	-		CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	_	-	_	UNKWN	_	_	UNKWN	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN		-	_	_	UNKWN	-	_	-	CAN COMM CIRCUIT	_



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Case 15

Check CAN communication circuit. Refer to LAN-166, "CAN Communication Circuit Inspection" .

					(CAN DIAG	SUPPO	RT MNT	٦					
SELECT SYS	TEM screen						Re	ceive dia	gnosis				SELF-DIAG	BESUITS
022201 010		Initial diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	_	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	—	_	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	—	_	_	_	CAN COMM CIRCUIT (U 1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT (U 1000)	_
ABS	_	V	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT	_
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	—	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
RAS/HICAS	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	—	UNKWN	_	_	CAN COMM CIRCUIT (U 1000)	_
AUTO DRIVE POS.	No indication	_	-	-	UNKWN	_	_	UNKWN	UNKWN	_	_	-	CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U N00)	_

Case 16

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-167, "IPDM E/R Ignition Relay Circuit Inspection"

					(CAN DIAG	SUPPO	RT MNT	3					
SELECT SYST	TEM screen	Initial	Transmit				Re	ceive diag	nosis				SELF-DIAG	RESULTS
			diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	-	-	UNKWN	_	UNK	-	UNKWN	UNKWN	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	ļ	UNKWN	UNKWN	-	Ι	-	UNKWN	UNKWN	-	-	—	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	Ι	-	UNKWN		UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN		UNKWN	_	UNKWN	-	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
RAS/HICAS	No indication	-	UNKWN	UNKWN	-	Ι	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	—
AUTO DRIVE POS.	No indication	-	-	-		Ι	_	UNKWN	UNKWN	_	-	-	CAN COMM CIRCUIT (UN00)	—
IPDM E/R	No indication	-	UNKWN	UNKWN	-	Ι	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-167</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					C	CAN DIAG	SUPPO	RT MNT	٦					
SELECT SYS	TEM screen	Initial	Treasuration				Re	ceive dia	gnosis				SELF-DIAG	BESUITS
012201 010		diagnosis	Transmit diagnosis	ECM	тсм	I-KEY	VDC/TCS /ABS	METER /M&A	BCM /SEC	STRG	RAS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	—	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	_	NG	UNKWN	-	—	-	UNKWN	_	—	_	_	—	CAN COMM CIRCUIT (U 1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	-	UNKWN	-	-	-	-	-	-	-	CAN COMIN CIRCUIT (U N00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
RAS/HICAS	No indication	—	UNKWN	UNKWN	—	-	UNKWN	-	—	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	-	-	-	UNKWN	-	_	UNKWN	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	1	-	-	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_

	<u></u>					[CAN]
ROUBLE	DIAGNOS	SIS FOR S	YSTEM			PFP:00000
-	Between ONNECTOR		VDC/TCS/	ABS Contr	ol Unit Circuit	NKS0029)
. Turn igniti . Disconnec . Check foll harness s Harness c Harness c <u>OK or NG</u> OK >> Ge	on switch OF ct the battery lowing termin ide). connector F10 connector M72 O TO 2. epair terminal	F. cable from the als and conne	ectors for dan		nd loose connection (conr	nector side and
. Disconneo	ct A/T assem	bly connector a	and harness o	connector F102	2.	
2. Check cor harness c		en A/T assem	bly harness c	connector and		
A/T assembl	y connector	Harness	connector	Continuity	A/T assembly connector	J harness connector
Connector	Terminal	Connector	Terminal	Continuity		
F40	3	F102	24H	Yes		
140	8	1102	25H	Yes		<u> </u>
NG >> Re 3. снеск н						SKIB0240E
2. Check cor	ntinuity betwe	ABS control un en harness co ss connector (l	nnector (A) a	nd VDC/TCS/		
Δ			3	Continuity		В
Connector	Terminal	Connector	Terminal		24H, 25H,	0
M72	24H	M93	61	Yes		<u>61, 63</u>
	25H		63	Yes	Ω	1
<u>L</u> /		connectors ar BLE DIAGNOS				SKIB7163E

Inspection Between VDC/TCS/ABS Control Unit and Data Link Connector Circuit

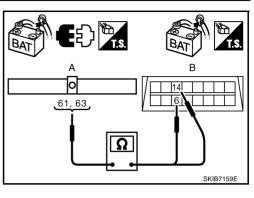
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[CAN]

1. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- Disconnect ECM connector and VDC/TCS/ABS control unit connector.
- 4. Check continuity between VDC/TCS/ABS control unit harness connector (A) and data link connector (B).

	A		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M93	61	M8	6	Yes
10193	63	IVIO	14	Yes



OK or NG

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

NG >> Repair harness.

Inspection Between Data Link Connector and Driver Seat 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 M12
- Harness connector B1

OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

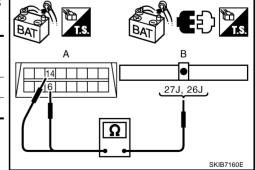
- 1. Disconnect harness connector M12.
- Check continuity between data link connector (A) and harness connector (B).

/	4	I	В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M8	6	M12	27J	Yes
WO	14	IVI I Z	26J	Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness.



$\overline{3}$. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect harness connector B7.
- 2. Check continuity between harness connector (A) and harness connector (B).

	A		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B1	27J	B7	3	Yes
Ы	26J	D7	19	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 RAS 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 M12
- Harness connector B1

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

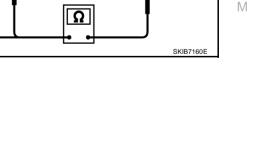
2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect harness connector M12.
- 2. Check continuity between data link connector (A) and harness connector (B).

	A		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M8	6	M12	27J	Yes
IVIO	14	IVITZ	26J	Yes

OK or NG

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



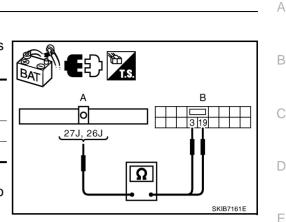
2006 G35 Coupe

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27J, 26J

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$\overline{\mathbf{3}}$. Check harness for open circuit

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

		A		В	Continuity
-	Connector	Terminal	Connector	Terminal	Continuity
	B1	27J	B136	1	Yes
	ы	26J	B130	8	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

With M/T models

- 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).
- ECM connector
- Harness connector F102
- Harness connector M72

With A/T models

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

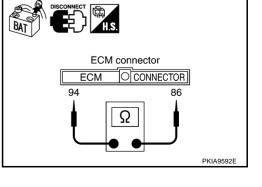
ECM connector	Terr	ninal	Resistance (Approx.)
F108	94	86	108 – 132 Ω

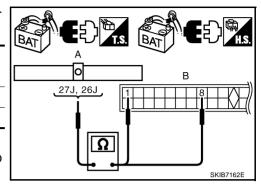
OK or NG

NG

OK >> Replace ECM.

- >> With M/T models: Repair harness between ECM and VDC/TCS/ABS control unit.
 - With A/T models: Repair harness between ECM and A/T assembly.





NKS0029G

TROUBLE DIAGNOSIS FOR SYSTEM [CAN] **TCM Circuit Inspection** NKS0029H А 1. CHECK CONNECTOR 1. Turn ignition switch OFF. В Disconnect the battery cable from the negative terminal. 2. Check terminals and connector of A/T assembly for damage, bend and loose connection (control module 3. side and harness side). OK or NG OK >> GOTO2NG >> Repair terminal or connector. D 2. CHECK HARNESS FOR OPEN CIRCUIT Disconnect A/T assembly connector. 1. F 2. Check resistance between A/T assembly harness connector terminals. BAT A/T assembly connector A/T assembly con-Resistance E Terminal nector (Approx.) -3 F40 54 - 66 Ω 3 8 8 OK or NG OK >> Replace control valve with TCM. Ω NG >> Repair harness between A/T assembly and harness Н connector F102. SKIA6866E Intelligent Key Unit Circuit Inspection NKS0029 1. CHECK CONNECTOR Turn ignition switch OFF. 1. J 2. Disconnect the battery cable from the negative terminal. 3. Check terminals and connector of Intelligent Key unit for damage, bend and loose connection (unit side and harness side). LAN OK or NG OK >> GO TO 2. NG >> Repair terminal or connector. L

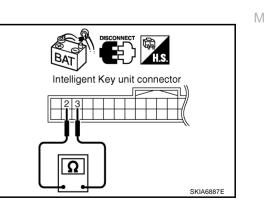
2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect Intelligent Key unit connector.
- 2. Check resistance between Intelligent Key unit harness connector terminals.

Intelligent Key unit connector	Terr	ninal	Resistance (Approx.)
M75	2	3	54 – 66 Ω

OK or NG

- OK >> Replace Intelligent Key unit.
- NG >> Repair harness between Intelligent Key unit and VDC/ TCS/ABS control unit.



VDC/TCS/ABS 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 VDC/TCS/ABS 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 VDC/TCS/ABS control unit connector.
- Check resistance between VDC/TCS/ABS control unit harness connector terminals.

VDC/TCS/ABS control unit connector	Terr	minal	Resistance (Approx.)
M93	61	63	54 – 66 Ω

OK or NG

- OK >> Replace VDC/TCS/ABS control unit.
- NG >> Repair harness between VDC/TCS/ABS control unit and data link connector.

Data Link Connector 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 data link connector for damage, bend and loose connection (connector side and harness side).

OK or NG

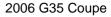
OK >> GO TO 2.

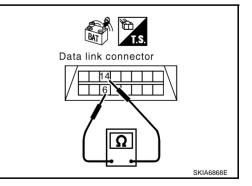
NG >> Repair terminal or connector.

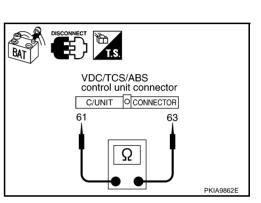
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

	ata link nnector	Terr	minal	Resistance (Approx.)
	M8	6	14	54 – 66 Ω
OK or I	NG			
OK		nose again. Ref <u>ES WORK FLOV</u>		ROUBLE DIAG-
NG		air harness betwe n meter.	en data link conn	ector and combi-







NKS0029K

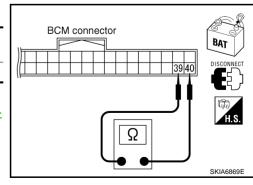
1. CHECK CONN		t Inspectior	า	NKS0029
	ECTOR			
1. Turn ignition s	vitch OFF.			
-	battery cable fr	om the negative	e terminal.	
		of combination	n meter for damage	e, bend and loose connection (meter side
and harness si	de).			
<u>OK or NG</u> OK >> GO TC	12			
	terminal or conr	nector.		
2. CHECK HARN				
	nbination meter			
Check resistar tor terminals.	ce between cor	nbination meter	harness connec-	
				BAT
Combination meter connector	Terr	minal	Resistance (Approx.)	Combination meter connector
M19	4	5	54 – 66 Ω	
OK or NG				
	e combination n			
		en combination	n meter and data	
NG >> Repair	harness betwe			
NG >> Repair	harness betwe nnector.			SKIB2258E
NG >> Repair link co	nnector.			SKIB2258E NKS0029J
NG >> Repair link co	nnector.			
NG >> Repair link co BCM Circuit Ir 1. CHECK CONN	nnector. Ispection ECTOR			
NG >> Repair link co BCM Circuit Ir 1. CHECK CONN 1. Turn ignition sv	nnector. Ispection ECTOR			
NG >> Repair link co BCM Circuit Ir 1. CHECK CONN 1. Turn ignition sv 2. Disconnect the 3. Check termina	nnector. ISPECTION ECTOR vitch OFF. battery cable from	om the negative	e terminal.	
NG >> Repair link co BCM Circuit Ir 1. CHECK CONN 1. Turn ignition sv 2. Disconnect the 3. Check termina harness side).	nnector. ISPECTION ECTOR vitch OFF. battery cable from	om the negative	e terminal.	NKS0029J
NG >> Repair link co BCM Circuit Ir 1. CHECK CONN 1. Turn ignition sv 2. Disconnect the 3. Check termina harness side). OK or NG	nnector. ISPECTION Vitch OFF. battery cable from s and connector	om the negative	e terminal.	NKS0029J
NG >> Repair link co BCM Circuit Ir 1. CHECK CONN 1. Turn ignition sv 2. Disconnect the 3. Check termina harness side). OK or NG OK >> GO TO	nnector. ISPECTION Vitch OFF. battery cable from s and connector	om the negative r of BCM for dar	e terminal.	NKS0029J

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

BCM connector	Ten	minal	Resistance (Approx.)
M1	39	40	54 – 66 Ω

OK or NG

- OK >> Replace BCM. Refer to BCS-18, "Removal and Installation of BCM".
- NG >> Repair harness between BCM and data link connector.



Μ

Steering Angle Sensor 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 steering angle sensor for damage, bend and loose connection (sensor side and harness side).

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

Steering angle sensor connector	Terr	ninal	Resistance (Approx.)
M22	4	5	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	
F	

RAS 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 RAS 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.

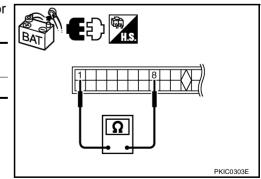
2. CHECK HARNESS FOR OPEN CIRCUIT

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

RAS control unit connector	Terr	ninal	Resistance (Approx.)
B136	1	8	54 – 66 Ω

OK or NG

- OK >> Replace RAS control unit.
- NG >> Replace harness.



[CAN]

NKS00290

		_		[CAN]
Driver Seat Cont 1. CHECK CONNEC		cuit Inspe	ection	NKS0029P
 Turn ignition switch Disconnect the bat Check following te nector side and ha Driver seat control Harness connecto 	ttery cable from rminals and co rness side). unit connector	-		loose connection (control unit side, con-
 Harness connecto OK or NG OK >> GO TO 2. 		4		
NG >> Repair terr 2. CHECK HARNES	minal or connects S FOR OPEN (
 Disconnect driver s Check resistance nector terminals. 			unit harness con-	
Driver seat control unit connector	Term	inal	Resistance (Approx.)	Driver seat control unit connector
B352	3	19	54 – 66 Ω	
			ntrol unit and har-	<u>Ω</u> • • • • • • • • • • • • • • • • • • •

IPDM E/R 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).
- IPDM E/R connector
- Harness connector B41
- Harness connector E123

OK or NG

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

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$\overline{2}$. CHECK HARNESS FOR OPEN CIRCUIT

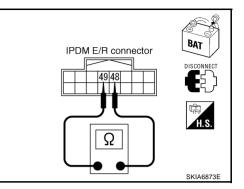
- 1. Disconnect IPDM E/R connector.
- Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connector	Terr	ninal	Resistance (Approx.)
E9	48	49	108 – 132 Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R and harness connector B1.

CAN Communication Circuit Inspection 1. CONNECTOR INSPECTION



NKS0029R

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR SHORT CIRCUIT

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

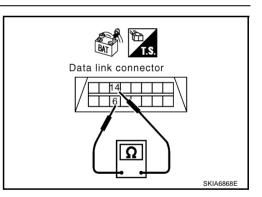
Data link connector	Terr	minal	Continuity
M8	6	14	No

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.

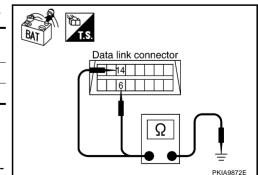
Data link connector	Terminal		Continuity
M8	6	Ground	No
IVIO	14		No

OK or NG

NG

OK >> GO TO 4.

- >> Repair harness.
 - Change harness if shielded lines are used for the harness.



[CAN]

	D IPDM E/R INTERNAL		
	IPDM E/R from vehicle		
2. Check resistance	between ECM terminals	S.	
Ter	minal	Resistance (Approx.)	ECM and IPDM E/R
94	86	108 – 132 Ω	
. Check resistance	between IPDM E/R terr	ninals.	
Ter	minal	Resistance (Approx.)	
48	49	108 – 132 Ω	
0 <u>K or NG</u> OK >> GO TO 5. NG >> Replace E	CM and/or IPDM E/R.		LKIA0037E
CHECK SYMPTO	M		
9 <u>K or NG</u> OK >> GO TO 6.		ure that the symptom is ing in Check Sheet Whe	s reproduced. en Initial Conditions Are Not Reproduced"
0 <u>K or NG</u> OK >> GO TO 6. NG >> Refer to <u>L</u> /	AN-13, "Example of Filli		
K or NG OK >> GO TO 6. NG >> Refer to <u>L</u> . CHECK UNIT REF erforms the following	AN-13, "Example of Filli PRODUCIBILITY procedure for each uni		en Initial Conditions Are Not Reproduced"
K or NG OK >> GO TO 6. NG >> Refer to L	AN-13, "Example of Filli PRODUCIBILITY procedure for each uni h OFF.	ing in Check Sheet Whe	en Initial Conditions Are Not Reproduced"
K or NG OK >> GO TO 6. NG >> Refer to L CHECK UNIT REF erforms the following Turn ignition switc Disconnect the ba	AN-13, "Example of Filli PRODUCIBILITY procedure for each uni h OFF. ttery cable from the neg	ing in Check Sheet Whe	en Initial Conditions Are Not Reproduced"
K or NG OK >> GO TO 6. NG >> Refer to L . . . CHECK UNIT REF erforms the following . . Turn ignition switc . Disconnect the ba . Disconnect the un	AN-13, "Example of Filli PRODUCIBILITY procedure for each uni h OFF. ttery cable from the neg	ing in Check Sheet Whe it, and then perform rep gative terminal.	en Initial Conditions Are Not Reproduced"
K or NG OK >> GO TO 6. NG >> Refer to L . . <tr< td=""><td>AN-13, "Example of Filli PRODUCIBILITY procedure for each uni h OFF. ttery cable from the neg it connector. ry cable to the negative</td><td>ing in Check Sheet Whe it, and then perform rep gative terminal. e terminal. "Symptom" of the chec</td><td>en Initial Conditions Are Not Reproduced"</td></tr<>	AN-13, "Example of Filli PRODUCIBILITY procedure for each uni h OFF. ttery cable from the neg it connector. ry cable to the negative	ing in Check Sheet Whe it, and then perform rep gative terminal. e terminal. "Symptom" of the chec	en Initial Conditions Are Not Reproduced"
OK or NG OK >> GO TO 6. NG >> Refer to L OCCHECK UNIT REF Performs the following Turn ignition switc Disconnect the batter Onnect the batter Make sure that the with the symptom Make sure that the	AN-13, "Example of Filli PRODUCIBILITY procedure for each uni h OFF. ttery cable from the neg it connector. ry cable to the negative e symptom filled in the	ing in Check Sheet Whe it, and then perform rep gative terminal. e terminal. "Symptom" of the chec t.)	en Initial Conditions Are Not Reproduced"
OK or NG OK >> GO TO 6. NG >> Refer to L/ D. CHECK UNIT REF Performs the following Turn ignition switc Disconnect the ba Disconnect the batter Make sure that the with the symptom Make sure that the check results Reproduced>> Install	AN-13, "Example of Filli PRODUCIBILITY procedure for each unit h OFF. ttery cable from the neg it connector. ry cable to the negative e symptom filled in the related to removed unit e same symptom is repu	ing in Check Sheet Whe it, and then perform rep gative terminal. e terminal. "Symptom" of the chec t.) roduced.	en Initial Conditions Are Not Reproduced"
DK or NG OK >> GO TO 6. NG >> Refer to L/ D. CHECK UNIT REF Performs the following Turn ignition switc Disconnect the ba Disconnect the batter Disconnect the batter Make sure that the with the symptom Make sure that the Check results Reproduced>> Install Not reproduced>> Ref	AN-13, "Example of Filli PRODUCIBILITY procedure for each unit h OFF. ttery cable from the neg it connector. ry cable to the negative e symptom filled in the related to removed unit e same symptom is repu	ing in Check Sheet Whe it, and then perform rep gative terminal. "Symptom" of the chec t.) roduced. n check the other unit.	en Initial Conditions Are Not Reproduced"
DK or NG OK >> GO TO 6. NG >> Refer to L D. CHECK UNIT REF Performs the following Turn ignition switc 2. Disconnect the ba 3. Disconnect the batter 5. Make sure that the with the symptom 6. Make sure that the check results Reproduced>> Install Not reproduced>> Re PDM E/R Ignition	PRODUCIBILITY procedure for each unit h OFF. ttery cable from the neg it connector. ry cable to the negative e symptom filled in the related to removed unit e same symptom is repu l removed unit, and the eplace removed unit. n Relay Circuit In	ing in Check Sheet Whe it, and then perform rep gative terminal. "Symptom" of the chec t.) roduced. n check the other unit.	en Initial Conditions Are Not Reproduced" producibility test. k sheet is reproduced. (Do not confuse it

 Ignition power supply circuit. Refer to <u>PG-10, "IGNITION POWER SUPPLY — IGNITION SW. IN "ON"</u> <u>AND/OR "START"</u>