# SECTION LAN SYSTEM

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#### CAN

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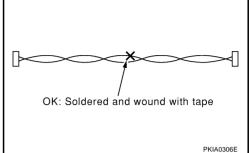
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## PRECAUTIONS

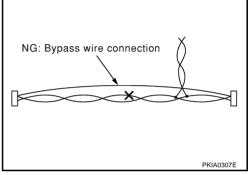
#### [CAN] PRECAUTIONS PFP:00001 Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT **BELT PRE-TENSIONER**" NKS001VM The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along В with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front C 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. F Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section. F Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors. Precautions When Using CONSULT-II NKS001VN When connecting CONSULT-II to data link connector, connect them through CONSULT-II CONVERTER. Н CAUTION: If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication. CHECK POINTS FOR USING CONSULT-II Has CONSULT-II been used without connecting CONSULT-II CONVERTER on this vehicle? 1 If YES, GO TO 2. If NO, GO TO 5. Is there any indication other than indications relating to CAN communication system in the self-diagnostic 2. results? LAN If YES, GO TO 3. If NO, GO TO 4. L 3. Based on self-diagnostic 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. Diagnose CAN communication system. Refer to LAN-5. "TROUBLE DIAGNOSES WORK FLOW" . Μ 5. **Precautions for Trouble Diagnosis** NKS001VC **CAN SYSTEM** Do not apply voltage of 7.0 V or higher to the measurement terminals. Use the tester with its open terminal voltage being 7.0 V or less. Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

#### Precautions for Harness Repair CAN SYSTEM

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



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



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[CAN]
TROUBLE DIAGNOSES WORK FLOW PFP:00004
When Displaying CAN Communication System Errors
CAN communication line is open. (CAN H, CAN L, or both)
CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)
The areas related to CAN communication of unit is malfunctioning.
WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM
<ul> <li>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).</li> </ul>
• Fuse blown out (removed): CAN communication of the unit may be stopped at such time.
• Low voltage: If the voltage decreases because of battery discharge when IGN is ON, malfunction may be detected by self-diagnosis according to the units.

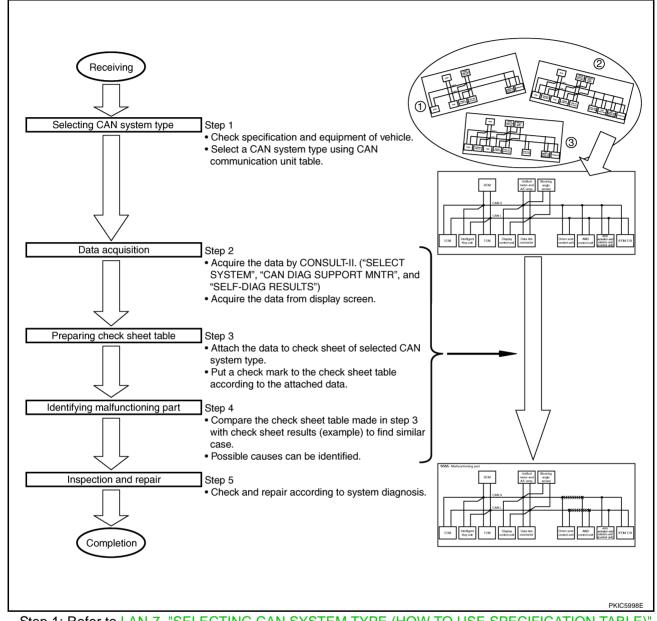
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#### **TROUBLE DIAGNOSIS FLOW CHART**

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



- Step 1: Refer to <u>LAN-7, "SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)"</u>.
- Step 2: Refer to LAN-8, "ACQUISITION OF DATA BY CONSULT-II" .
- Step 3: Refer to LAN-10, "HOW TO USE CHECK SHEET TABLE" .
- Step 4: Refer to LAN-11, "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) Wagon/AWD/V	Q35DE/C	VT/VDC	/With aut	tomatic d	lrive posi	tioner/W	ith Intelligent Key system	
CAN Communication Un Go to CAN system, when		your CA	N systen	n type fro	om the fo	llowing t	able.	
Body type	_		Wa	igon T			. )	
Axle		2WD			AWD		-	
Engine	VQ35DE						Check basic specifications of the vehicle.	
Transmission	CVT							
Brake control	A	BS	VDC	Al	BS	VDC	<u> </u>	
Automatic drive positioner		×	×		×	×	Select " x" if it is model with automatic drive positioner.	
Intelligent Key system		×	×		×	×	Select " ×" if it is model with Intelligent Key system.	
CAN system type	1	2	3	4	5	6		
CAN system trouble diagnosis	.XX:XX.	.XX:XX.		XX:XX	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 6.	
							PKIC5999E	1

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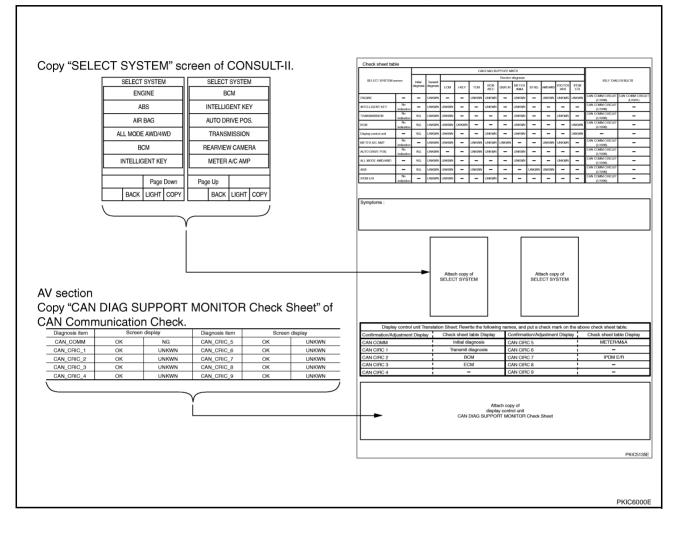
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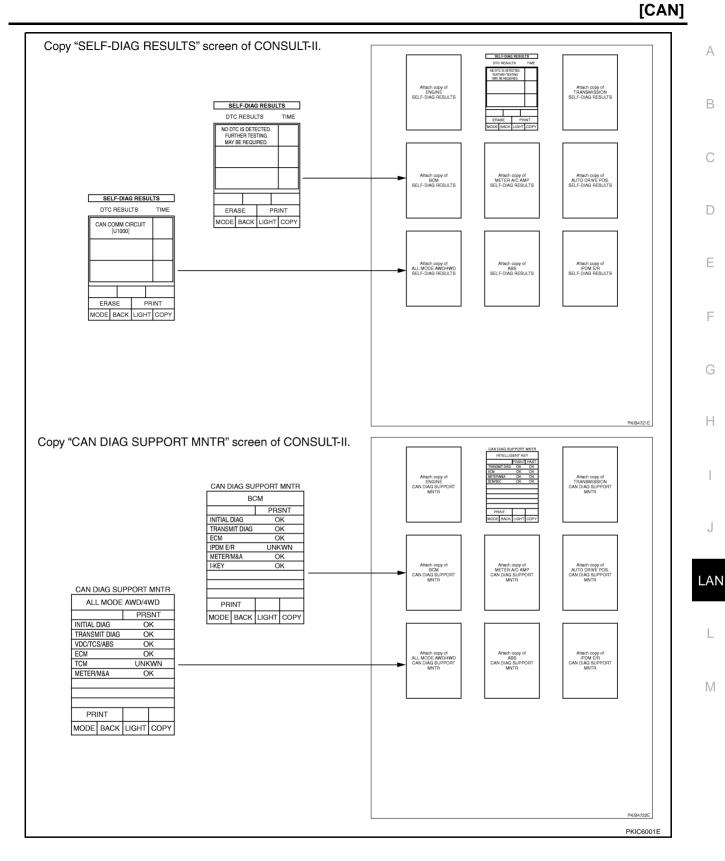
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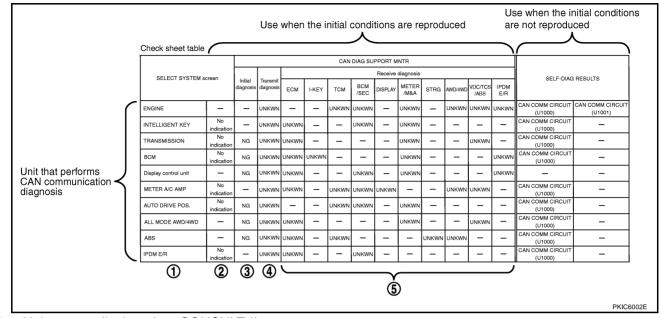
#### **ACQUISITION OF DATA BY CONSULT-II**

Attach the data acquired by CONSULT-II on the check sheet determined according to CAN system type.(For display control unit, transfer the data from the display screen of the vehicle to "CAN DIAG SUPPORT MONI-TOR Check Sheet". Refer to <u>AV-178</u>, "CAN Communication Check".)





#### HOW TO USE CHECK SHEET TABLE



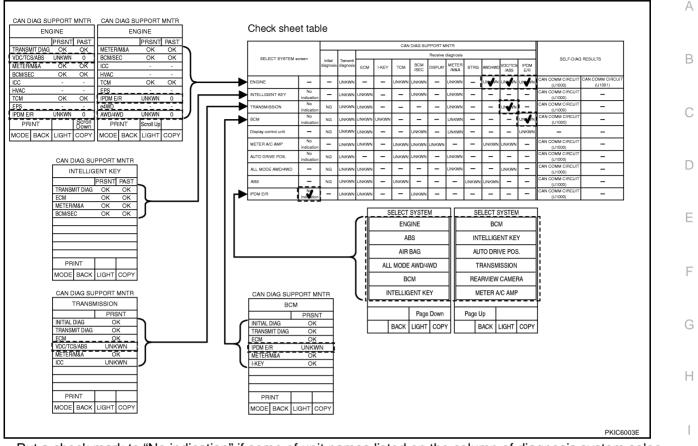
- 1. Unit names displayed on CONSULT-II.
- "No indication": Put a check mark to it if the unit name described in step 1 is not displayed on "SELECT SYSTEM" screen of CONSULT-II. (Unit communicating with CONSULT-II via CAN communication line) "-": Column not used (Unit communicating with CONSULT-II excluding CAN communication line)
- "NG": Display "NG" when malfunction is detected in the initial diagnosis of the diagnosed unit. Replace the unit if "NG" is displayed.
   "" Column patt used (Initial diagnosis is not performed.)
  - "-": 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-11</u>, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- When the initial conditions are not reproduced, refer to <u>LAN-15</u>, "Example of Filling in Check Sheet When <u>Initial Conditions Are Not Reproduced</u>".

#### Example of Filling in Check Sheet When Initial Conditions Are Reproduced



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

#### NOTE:

Put a check mark to "No indication" of IPDM E/R because IPDM E/R is not displayed on "SELECT SYS-TEM" screen.

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

#### NOTE:

In "CAN DIAG SUPPORT MNTR" screen, "UNKWN" is displayed on "VDC/TCS/ABS", "IPDM E/R" and "AWD/4WD". Put a check mark to it.

 Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "INTELLIGENT KEY", "TRANSMISSION" and "BCM" as well as "ENGINE". And then, put a check mark to the check sheet table.

#### NOTE:

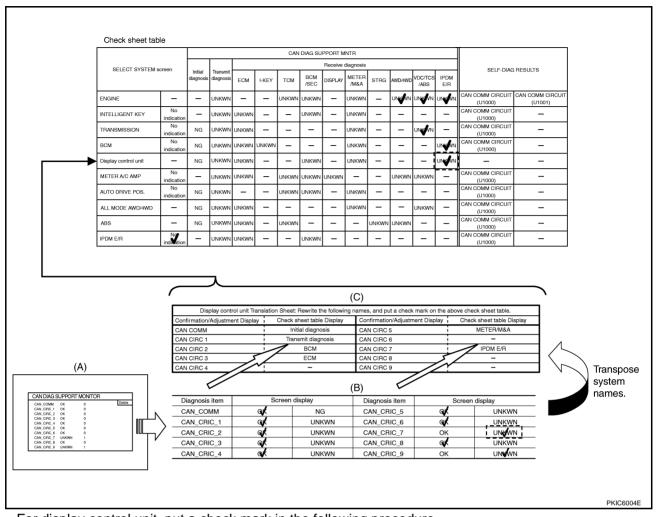
- For "INTELLIGENT KEY", "UNKWN" is not displayed. Do not put a check to it.
- For "TRANSMISSION", "UNKWN" is displayed on "VDC/TCS/ABS" and "ICC". But put a check mark to "VDC/TCS/ABS" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.
- For "BCM", "UNKWN" is displayed on "IPDM E/R". Put a check mark to it.

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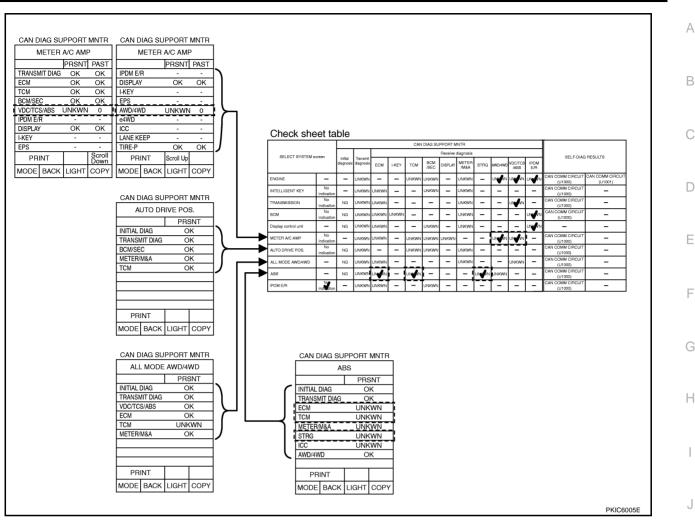
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- 4. For display control unit, put a check mark in the following procedure.
- a. Copy to "CAN DIAG SUPPORT MONITOR Check Sheet" (B) from the display screen (A). Refer to <u>AV-178, "CAN Communication Check"</u>.
- b. Read "CAN DIAG SUPPORT MONITOR Check Sheet" (B) with "Display control unit Translation Sheet" (C).
- c. Check "UNKWN" with a check mark. Put a check mark to the check sheet table.

#### NOTE:

In "CAN DIAG SUPPORT MONITOR Check Sheet" (B), check marks are put to "CAN CIRC 7" and "CAN CIRC 9". But, in the column of the check sheet table indication in "Display control unit Translation Sheet" (C), "IPDM E/R" is listed only for "CAN CIRC 7". Therefore, put a check mark to "IPDM E/R" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.



5. Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "METER A/C AMP", "AUTO DRIVE POS.", "ALL MODE AWD/4WD" and "ABS" as well as "ENGINE". And then, put a check mark to the check sheet table.

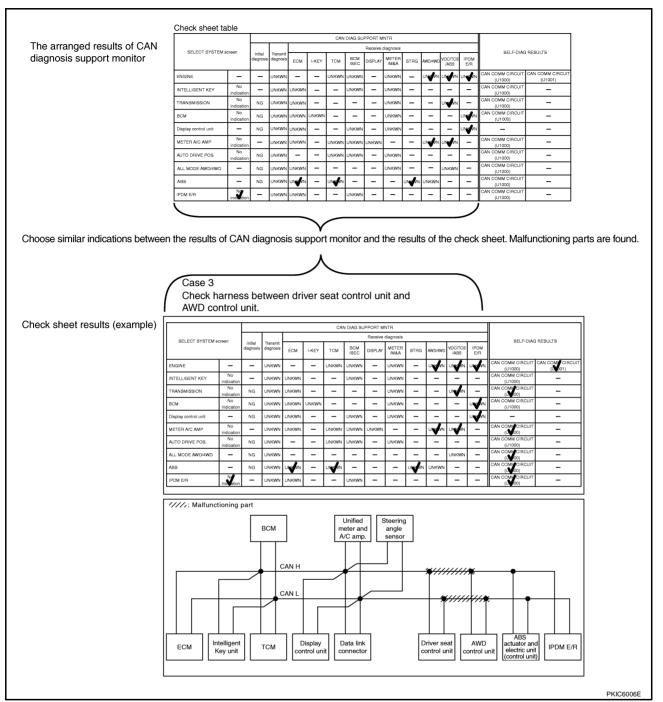
#### NOTE:

- For "METER A/C AMP", "UNKWN" is displayed on "VDC/TCS/ABS" and "AWD/4WD". Put a check mark to it.
- For "AUTO DRIVE POS.", "UNKWN" is not displayed. Do not put a check to it.
- For "ALL MODE AWD/4WD", "UNKWN" is displayed on "TCM". 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 "ECM", "TCM", "METER/M&A", "STRG" and "ICC". But put a check mark to "ECM", "TCM" and "STRG" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

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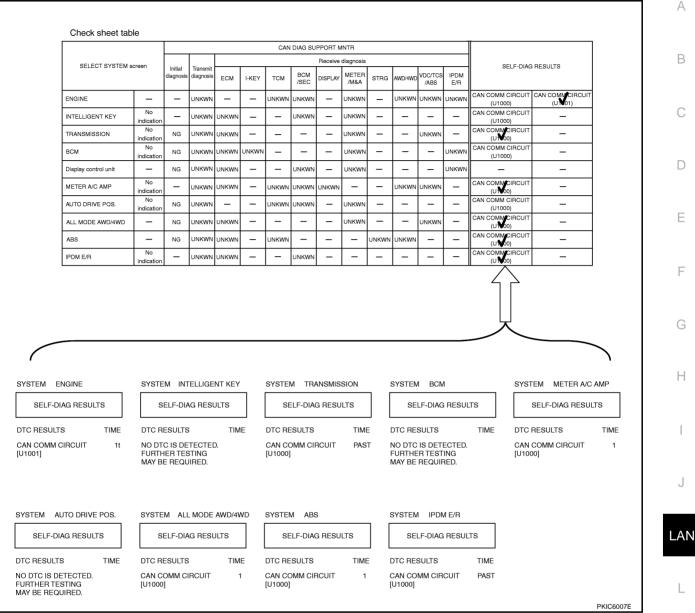
#### NOTE:

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

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

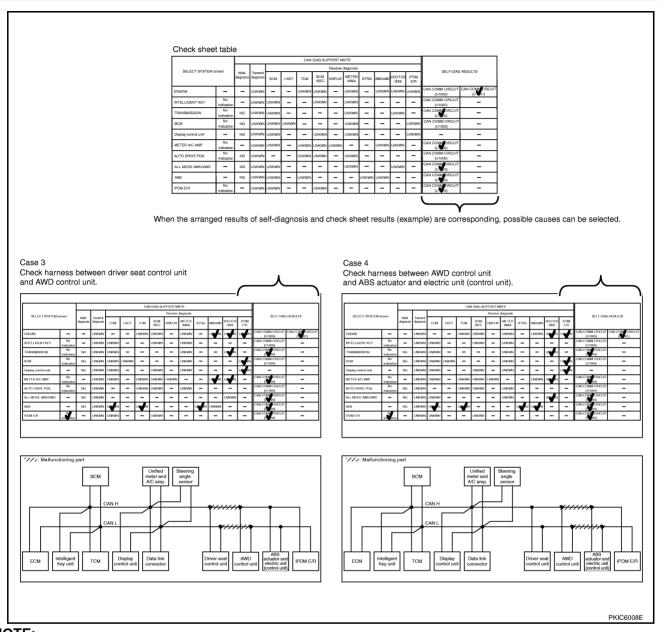
Start CAN system trouble diagnosis if this procedure can be confirmed. Refer to <u>LAN-32</u>, "CAN Communication Unit".

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



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

- NOTE:
- For "ENGINE", "CAN COMM CIRCUIT [U1001]" is displayed. Put a check mark to it.
- For "INTELLIGENT KEY", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "TRANSMISSION", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "BCM", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "METER A/C AMP", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "AUTO DRIVE POS.", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "ALL MODE AWD/4WD", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "ABS", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "IPDM E/R", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.



#### NOTE:

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

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

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AN Diagnostic ESCRIPTION OF	Support Monito	ORT MNTR" SCREEN FOR ECM	NKS001VS
(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR	
	ENGINE	ENGINE	
	PRSNT PAST	PRSNT PAST	
	TRANSMIT DIAG OK OK	METER/M&A OK OK	
	VDC/TCS/ABS OK OK	BCM/SEC OK OK	
	METER/M&A OK OK	ICC	
	BCM/SEC OK OK	HVAC	
	ICC 201	TCM OK OK	
	HVAC	EPS	
	TCM OK OK	IPDM E/R OK OK	
	EPS	e4WD	
	IPDM E/R OK OK	AWD/4WD OK OK	
	PRINT Scroll Down	PRINT Scroll Up	
	MODE BACK LIGHT COPY	MODE BACK LIGHT COPY	PKIC5987E

"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 ABS actua- tor and electric unit (control unit). (VDC model)	OK/UNKWN/-		F
		VDC/TCS/ABS is not diagnosed. (ABS model)	_	OK/0/1 – 39/–	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-		G
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-		
ENGINE	ICC	ICC is not diagnosed.	_		Н
	HVAC	HVAC is not diagnosed.	_		
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN/-		
	EPS	EPS is not diagnosed.	_		I
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-		
	e4WD	e4WD is not diagnosed.	-		J
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN/-		

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

OK: Normal .

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

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

#### **Display Results (Past)**

- OK: Normal
- 0: There is malfunction now.
- 1 39: Displays when it is normal at present and finds malfunction in the past. It increases like  $0 \rightarrow 1 \rightarrow 2...38 \rightarrow 39$  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 •

Revision: 2006 August

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

ample)	CAN D	IAG SU			
	IN	TELLIG	ENT KE	Y	
			PRSNT	PAST	
	TRANSM	1IT DIAG			
	ECM		OK		
	METER/	M&A	OK		
	BCM/SE	С	ОК		
	PRI	NT			
	MODE	BACK	LIGHT	COPY	PKIB6071E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past
INTELLIGENT KEY	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	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 finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. Keep this condition until resetting it.
- -: Undiagnosed

[CAN]

PKIB6072E

#### **DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN** (Example) CAN DIAG SUPPORT MNTR FOR TCM А TRANSMISSION PRSNT INITIAL DIAG OK TRANSMIT DIAG OK ECM OK В OK VDC/TCS/ABS METER/M&A OK UNKWN ICC С

				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
TRANSMISSION	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN	F
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN	
	ICC	ICC is not diagnosed.	UNKWN	G

#### **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	(Example)	CAN DIAG SUP	PORT MNTR
FOR BCM		BC	N
			PRSNT
		INITIAL DIAG	OK
		TRANSMIT DIAG	OK
		ECM	OK
		IPDM E/R	OK
		METER/M&A	OK
		I-KEY	OK

	ECM OK	_	
	IPDM E/R OK		
	METER/M&A OK		
	I-KEY OK		LAN
		_	
		_	
	PRINT	_	
		_	1
	MODE BACK LIGHT COP	Y PKIB6074E	
Descript	ion	Present	
Descript	1011	Flesen	
		<u></u>	- IVI
e sure that microcomputer in EC	U works normally.	OK/NG	

PRINT

MODE BACK LIGHT COPY

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
BCM	ECM	Make sure of normal reception from ECM.	OK/UNKWN
DCIM	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
	I-KEY	Make sure of normal reception from Intelligent Key unit.	OK/UNKWN

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

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

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# DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR UNIFIED METER AND A/C AMP.

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR
	METER A/C AMP	METER A/C AMP
	PRSNT PAST	PRSNT PAST
	TRANSMIT DIAG OK OK	IPDM E/R
	ECM OK OK	DISPLAY OK OK
	TCM OK OK	I-KEY
	BCM/SEC OK OK	EPS
	VDC/TCS/ABS OK OK	AWD/4WD OK OK
	IPDM E/R	e4WD
	DISPLAY OK OK	ICC
	I-KEY	LANE KEEP
	EPS	TIRE-P OK OK
	PRINT Scroll Down	PRINT Scroll Up
	MODE BACK LIGHT COPY	MODE BACK LIGHT COPY PKIB6075E

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

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

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

#### **Display Results (Past)**

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

# DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN

							_	
Example)		MAG SU	PPORT	MNIR	•			
	A	UTO DR	IVE PO	S.				А
			PR	SNT	1			
	INITIAL	DIAG	0	ĸ	1			
	TRANSM	/IT DIAG	0	ĸ	1			
	BCM/SE	C	0	ĸ	1			D
	METER/	M&A	0	ĸ	1			D
	ТСМ		0	ĸ	1			
					1			
					]			
					1			С
					1			C
	PR	INT			]			
	MODE	BACK	LIGHT	COPY	1			
					]	PKIB6076	E	
								D

[CAN]

"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
AUTO DRIVE POS.	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
_	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN

**Display Results (Present)** 

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

# DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR AWD CONTROL UNIT

(Example)	CAN D	IAG SU	PPORT	MNTR	
,	ALL	MODE	AWD/4	WD	
			PR	SNT	
	INITIAL D	DIAG	0	ĸ	
	TRANSN	1IT DIAG	0	ĸ	
	VDC/TCS	S/ABS	0	ĸ	
	ECM		0	ĸ	
	TCM		UNK	(WN	
	METER/N	M&A	0	ĸ	
	PRI	NT			
	MODE	BACK	LIGHT	COPY	PKIB6077E

"SELECT SYSTEM" screen	"CAN DIAG SUP- PORT MNTR" screen	Description	Present	L
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG	
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN	M
ALL MODE AWD/	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit). (VDC model)	OK/UNKWN	-
4WD		VDC/TCS/ABS is not diagnosed.(ABS model)	UNKWN	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN	-
	ТСМ	TCM is not diagnosed.	UNKWN	-
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN	-

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

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

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#### DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ABS ACTUATOR AND ELEC-TRIC UNIT (CONTROL UNIT) ABS model

 (Example)
 CAN DIAG SUPPORT MNTR

 ABS
 PRSNT

 INITIAL DIAG
 OK

 TRANSMIT DIAG
 OK

 ECM
 OK

 PRINT
 MODE

 MODE
 BACK

 LIGHT
 COPY

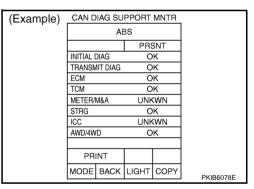
 PKIA8949E

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

Display Results (Present)

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

#### **VDC** model



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

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

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

DESCRIPTION O FOR IPDM E/R	F "CAN DIAG SUF	PORT MNTR" SCREEN		TRANSMIT DIAG OK ECM OK BCW/SEC OK	AST OK OK OK
"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description		Present	PKIB6079E
	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 finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. Keep this condition until resetting it.

• -: Undiagnosed

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

(Example)

CAN COMM	ОК	0	Delete
CAN CIRC 1	ОК	0	
CAN_CIRC_2	ОК	0	
CAN_CIRC_3	ОК	0	
CAN_CIRC_4	OK	0	
CAN_CIRC_5	ОК	0	
CAN_CIRC_6	OK	0	
CAN_CIRC_7	OK	0	
CAN_CIRC_8	ОК	0	
CAN_CIRC_9	UNKWN	1	

PKIC6980E

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

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

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

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

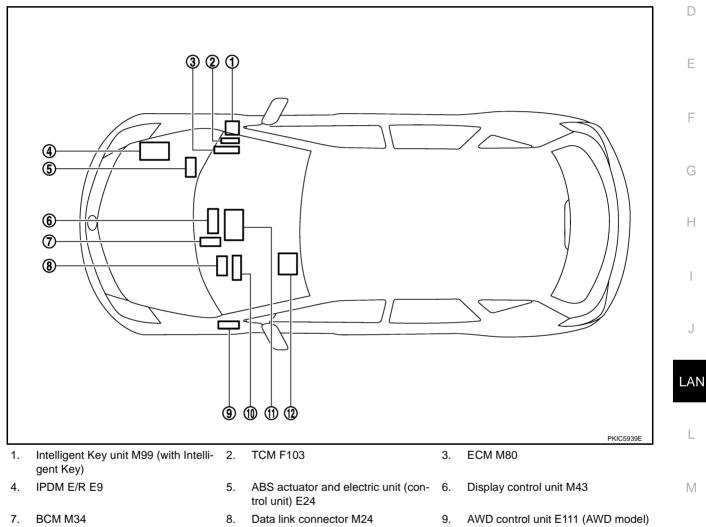
- 0: It is normal now.
- 1 50: Displays when it finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase like 0→1→2...49→50 after returning to the normal condition whenever IGN OFF→ON. If it is over 50, it is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

## **CAN COMMUNICATION**

## System Description

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

## **Component Parts and Harness Connector Location**



- 10. Steering angle sensor M33 (with VDC)
- 11. Unified meter and A/C amp. M49
- 12. Driver seat control unit B303 (with automatic drive positioner)

[CAN]

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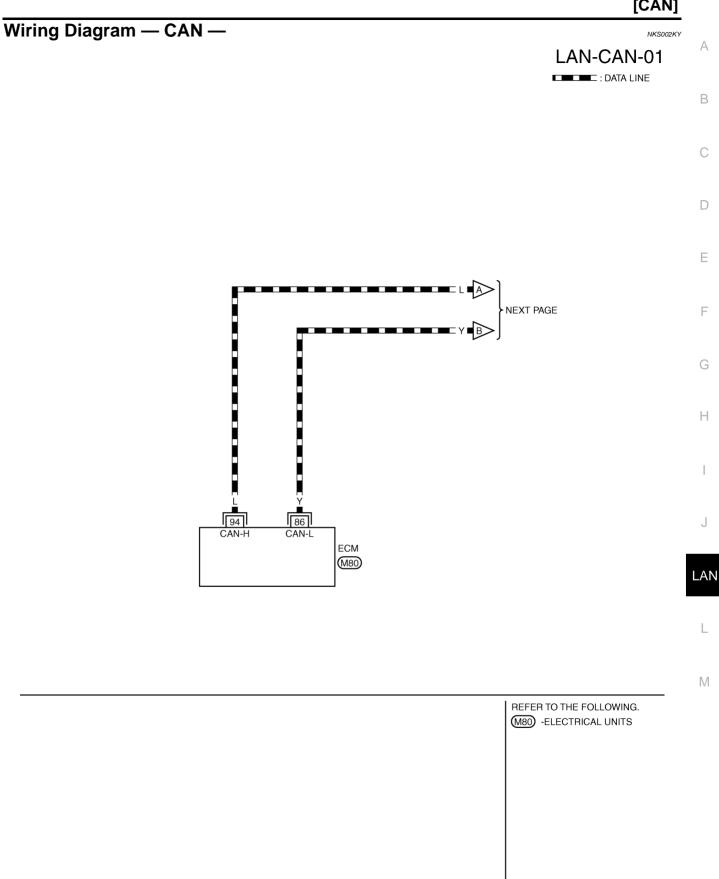
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Schematic NKS002KX AWD modelsVD) : With VDCIK) : With Intelligent KeyAD) : With automatic drive positioner IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) 64 СРU 48 ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) 5 ÷ AWD CONTROL UNIT AW 16 AW ω DRIVER SEAT CONTROL UNIT : (AD) ရာ AD ო STEERING ANGLE SENSOR : (VD) S DN 4 UNIFIED METER AND A/C AMP. DATA LINK CONNECTOR ÷ 4 9 DISPLAY CONTROL UNIT 26 25 TCM (TRANSMISSION CONTROL MODULE) BCM (BODY CONTROL MODULE) 40 9 39 ഹ INTELLIGENT KEY UNIT : IK ო ĭ≚ N DATA LINE DATA LINE 86 ECM 94

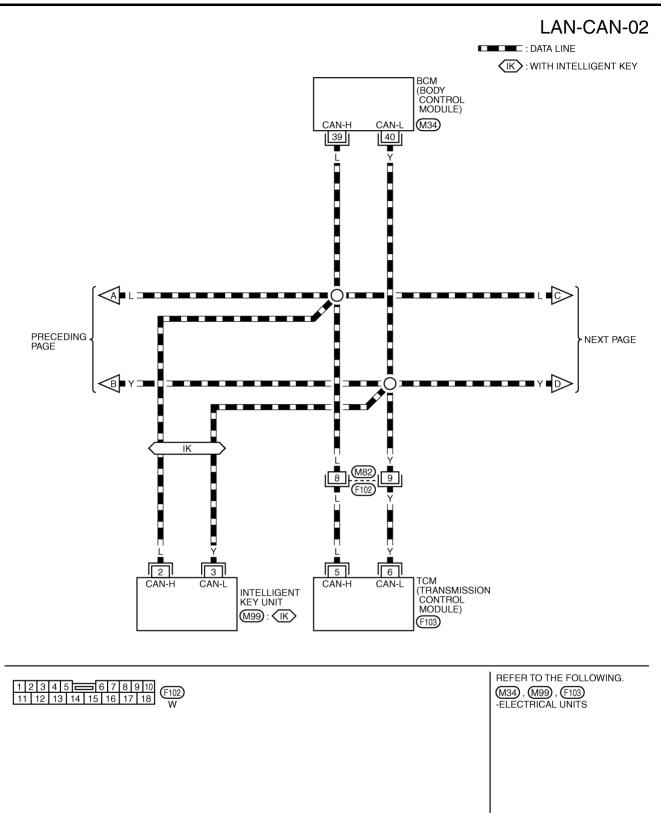
TKWB2623E

[CAN]



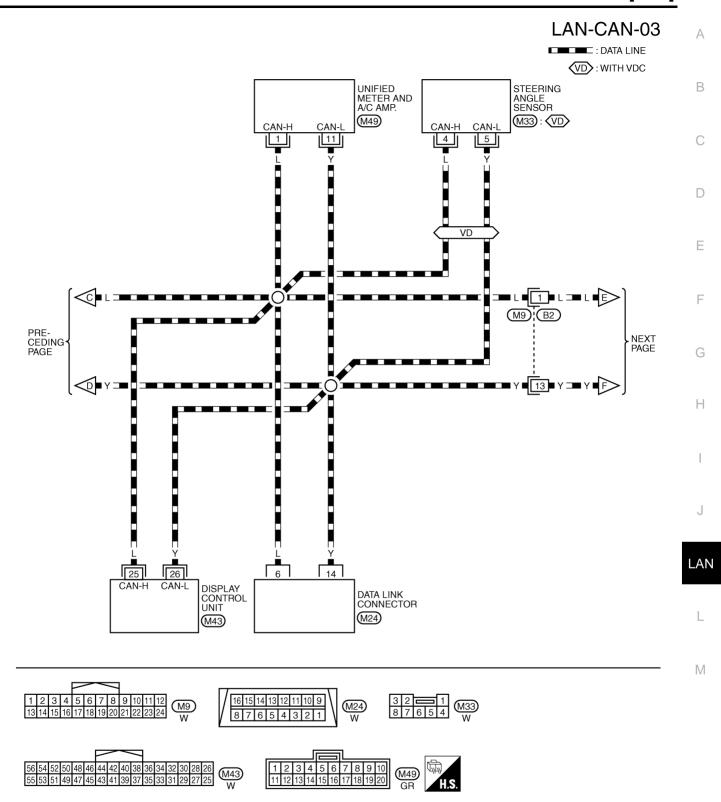
TKWB0822E

[CAN]



TKWB2624E

[CAN]

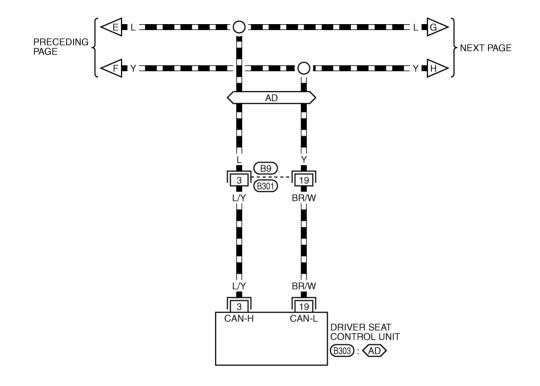


TKWB2625E

## [CAN]

## LAN-CAN-04

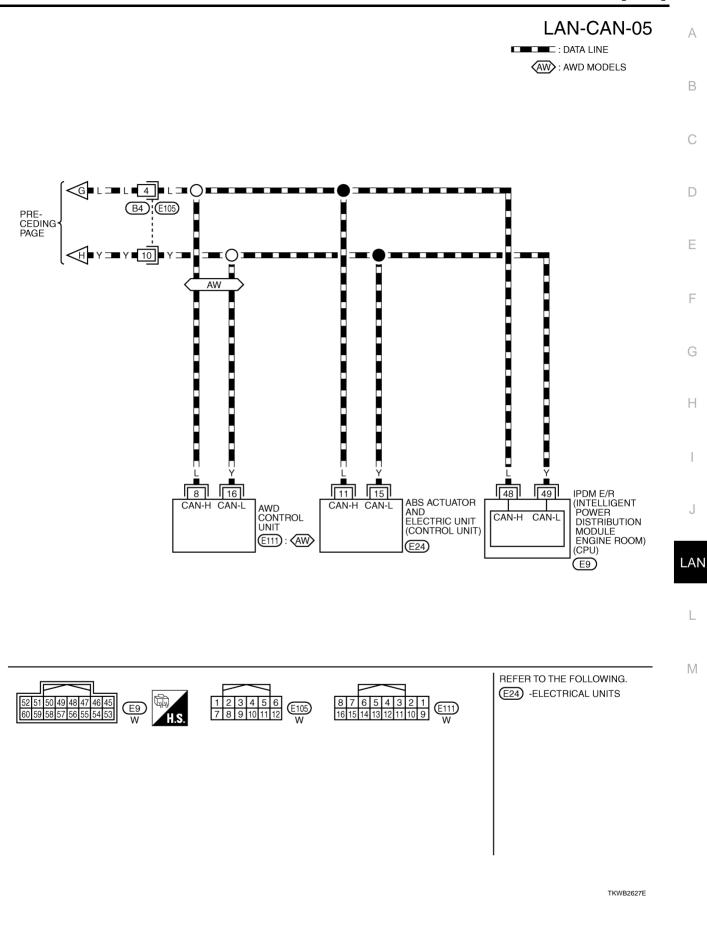
AD: WITH AUTOMATIC DRIVE POSITIONER





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

TKWB2626E



## **CAN Communication Unit**

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

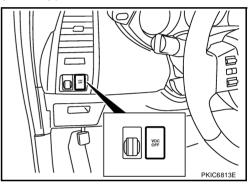
Body type	Wagon										
Axle	2WD AWD										
Engine	VQ35DE										
Transmission		CVT									
Brake control	A	BS	VDC	A	BS	VDC					
Automatic drive positioner		×			×	×					
Intelligent Key system	×		×		×	×					
CAN system type	1 2		3	4	5	6					
CAN system trouble diagnosis	LAN-45	LAN-60	LAN-78	LAN-97	LAN-114	LAN-13					

×: Applicable

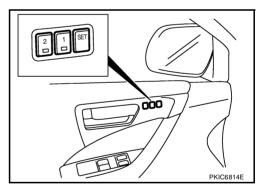
#### NOTE:

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

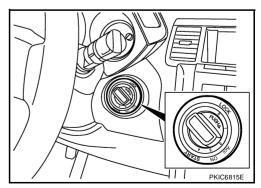
• Model with VDC



Model with automatic drive positioner



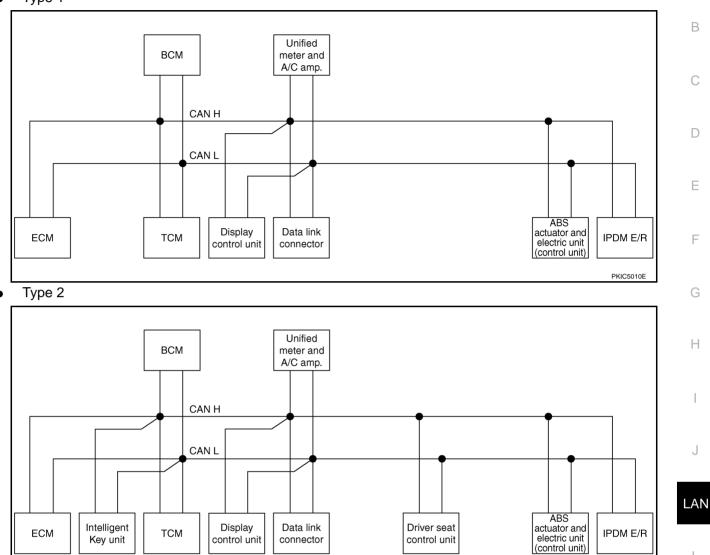
Model with Intelligent Key system



NKS001VU

## TYPE 1/TYPE 2 System Diagram





#### **Input/output Signal Chart**

T: Transmit R: Receive M

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Signals	ECM	Intelli- gent Key unit <sup>*1</sup>	ТСМ	BCM	Display control unit	Unified meter and A/C amp.	Driver seat control unit <sup>*2</sup>	ABS actua- tor and electric unit (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			
Closed throttle position signal	Т		R						
Cooling fan speed request signal	Т								R
Engine and CVT integrated control	Т		R						
signal	R		Т						

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Revision: 2006 August

									[0,]
Signals	ECM	Intelli- gent Key unit <sup>*1</sup>	ТСМ	BCM	Display control unit	Unified meter and A/C amp.	Driver seat control unit <sup>*2</sup>	ABS actua- tor and electric unit (control unit)	IPDM E/ R
Engine coolant temperature signal	Т					R			
Engine speed signal	Т	R	R		R	R			
Engine status signal	Т			R					
Fuel consumption monitor signal	Т				R	R T			
Malfunction indicator lamp signal	Т					R			
Wide open throttle position signal	Т		R						
Door lock/unlock request signal		Т		R					
Hazard request signal		Т		R					
Hazard warning lamp request signal		Т		R					
Ignition knob switch signal		Т		R					
Panic alarm request signal		Т		R					
Power window open request signal		Т		R					
CVT position indicator signal			т			R			
CVT self-diagnosis signal	R		т						
Input shaft revolution signal	R		Т						
Manual mode indicator signal			Т			R			
Output shaft revolution signal	R		T						
P range signal			Т				R		
Second position indicator signal			T			R			
A/C switch signal	R		•	Т					
Blower fan motor switch signal	R			Т					
Buzzer output signal				Т		R			
Door lock/unlock status signal		R		, T		IX.			
Door switch signal		R		T	R	R	R		R
Front fog lights request signal		ĸ		T	ĸ	ĸ	ĸ		R
Front wiper request signal				T					
						D			R
High beam request signal				T		R			R
Horn chirp signal				Т			6		R
Ignition switch signal				T			R		R
Key fob door unlock signal				T			R		
Key fob ID signal				T			R		
Key switch signal				T			R		
Low beam request signal				T					R
Oil pressure switch signal				T R		R			т
Position lights request signal				Т		R			R
Rear window defogger switch signal				Т					R
Sleep request 1 signal				Т		R			<u> </u>
Sleep request 2 signal				Т					R
		1		1	1	1		1	

Revision: 2006 August

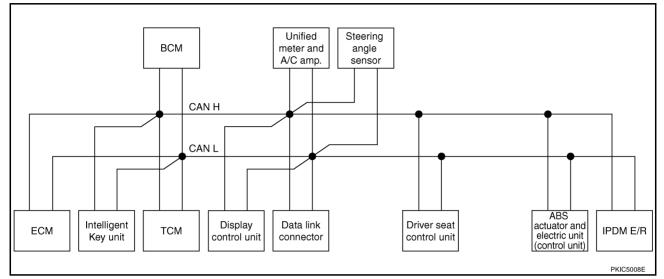
Signals	ECM	Intelli- gent Key unit <sup>*1</sup>	тсм	BCM	Display control unit	Unified meter and A/C amp.	Driver seat control unit <sup>*2</sup>	ABS actua- tor and electric unit (control unit)	IPDM E/ R	A B
System setting signal				R	Т		R			- C
<b>T</b> I (1				T	R		Т			-
Theft warning horn request signal				T	*4				R	-
Tire pressure data signal				T <sup>*1</sup>	R*1					D
Tire pressure signal				T <sup>*1</sup>		R*1				_
Turn indicator signal				Т		R				- E
A/C switch/indicator signal					Т	R				_
, o omonymalouxor orginal					R	Т				_
Distance to empty signal					R	Т				F
Fuel level low warning signal					R	Т				_
Fuel level sensor signal	R					Т				
Manual mode shift down signal			R			Т				G
Manual mode shift up signal			R			Т				_
Manual mode signal			R			Т				Н
Not manual mode signal			R			Т				_
Parking brake switch signal				R		Т				
Seat belt buckle switch signal				R		Т				
Second position signal			R			Т				_
Stop lamp switch signal			R			Т				J
Turn LED burnout status signal				R		Т				
Vehicle speed signal			R			R		Т		
Venicle speed signal	R	R		R	R	Т	R			LA
ABS operation signal			R					Т		
ABS warning lamp signal						R		Т		
Brake warning lamp signal						R		Т		_
Front wiper stop position signal				R					Т	
High beam status signal	R								Т	M
Low beam status signal	R								Т	-
Rear window defogger control sig- nal	R				R				Т	-

• \*1: with Intelligent Key system model only.

\*2: with automatic drive positioner model only. ٠

### TYPE 3 System Diagram

• Type 3



## Input/output Signal Chart

T: Transmit R: Receive

Signals	ECM	Intelli- gent Key unit	ТСМ	BCM	Dis- play control unit	Uni- fied meter and A/ C amp.	Steer- ing angle sensor	Driver seat control unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
A/C compressor request signal	Т									R
Accelerator pedal position signal	Т		R						R	<u> </u>
ASCD CRUISE lamp signal	Т					R				
ASCD SET lamp signal	Т					R				
Closed throttle position signal	Т		R							<u> </u>
Cooling fan speed request signal	Т									R
Engine and CVT integrated control signal	Т		R							
	R		Т							<u> </u>
Engine coolant temperature signal	Т					R				
Engine speed signal	Т	R	R		R	R			R	
Engine status signal	Т			R						
Fuel consumption monitor signal	Т					R				
					R	Т				
Malfunction indicator lamp signal	Т					R				
Wide open throttle position signal	Т		R							
Door lock/unlock request signal		Т		R						
Hazard request signal		Т		R						
Hazard warning lamp request signal		Т		R						
Ignition knob switch signal		Т		R						
Panic alarm request signal		Т		R						
Power window open request signal		Т		R						
CVT position indicator signal			Т			R			R	

Revision: 2006 August

Signals	ECM	Intelli- gent Key unit	тсм	BCM	Dis- play control unit	Uni- fied meter and A/ C amp.	Steer- ing angle sensor	Driver seat control unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R	A
CVT self-diagnosis signal	R		Т								С
Input shaft revolution signal	R		Т								_
Manual mode indicator signal			Т			R					D
Output shaft revolution signal	R		Т								
P range signal			Т					R	R		_
Second position indicator signal			Т			R			R		E
A/C switch signal	R			Т							_
Blower fan motor switch signal	R			Т							_
Buzzer output signal				Т		R					F
Door lock/unlock status signal		R		Т							
Door switch signal		R		Т	R	R		R		R	G
Front fog lights request signal				Т						R	
Front wiper request signal				Т						R	
High beam request signal				Т		R				R	Н
Horn chirp signal				Т						R	
Ignition switch signal				Т				R		R	
Key fob door unlock signal				Т				R			
Key fob ID signal				Т				R			
Key switch signal				Т				R			J
Low beam request signal				Т						R	
Oil pressure switch signal				T R		R				Т	LAN
Position lights request signal				т		R				R	
Rear window defogger switch signal				т						R	L
Sleep request 1 signal				т		R					
Sleep request 2 signal				т						R	•
				R	т			R			M
System setting signal				т	R			Т			
Theft warning horn request signal				Т						R	
Tire pressure data signal				Т	R						
Tire pressure signal				т		R					
Turn indicator signal				т		R					
A/C switch/indicator signal					T R	R T					-
Distance to empty signal					R	т					•
Fuel level low warning signal					R	Т					
Fuel level sensor signal	R					Т					
Seat belt buckle switch signal				R		Т					
Manual mode shift down signal			R			Т					_
Manual mode shift up signal			R			Т					

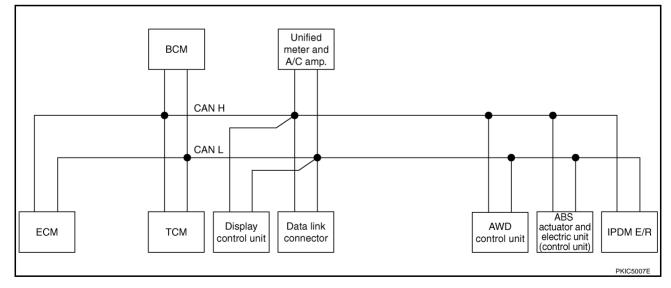
Revision: 2006 August

[CAN]

Signals	ECM	Intelli- gent Key unit	ТСМ	BCM	Dis- play control unit	Uni- fied meter and A/ C amp.	Steer- ing angle sensor	Driver seat control unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Manual mode signal			R			Т				
Not manual mode signal			R			Т				
Parking brake switch signal				R		Т				
Second position signal			R			Т				
Stop lamp switch signal			R			Т				
Turn LED burnout status signal				R		Т				
Vahiala anala aignal			R			R			Т	
Vehicle speed signal	R	R		R	R	Т		R		
Steering angle sensor signal							Т		R	
ABS warning lamp signal						R			Т	
Brake warning lamp signal						R			Т	
SLIP indicator lamp signal						R			Т	
VDC OFF indicator lamp signal						R			Т	
VDC operation signal			R						Т	
Front wiper stop position signal				R						Т
High beam status signal	R									Т
Low beam status signal	R									Т
Rear window defogger control signal	R				R					Т

### TYPE 4/TYPE 5 System Diagram

• Type 4



[CAN]

Type 5 А Unified BCM meter and В A/C amp. CAN H CAN L ABS actuator and F Intelligent Display Data link Driver seat AWD IPDM E/R ECM тсм electric unit Key unit control unit connector control unit control unit (control unit) PKIC5006E E

### Input/output Signal Chart

ABS actua-Uni-Intelli-Driver Distor and AWD fied gent play seat elec-IPDM тсм Signals ECM BCM meter control Н Key control control tric unit E/R and A/ unit unit<sup>\*1</sup> unit unit\*2 (con-C amp. trol unit) т R A/C compressor request signal Т R R Accelerator pedal position signal ASCD CRUISE lamp signal т R ASCD SET lamp signal т R Closed throttle position signal Т R LAN т Cooling fan speed request signal R т R Engine and CVT integrated control signal R Т т R Engine coolant temperature signal Т R R R R Engine speed signal R Μ Т R Engine status signal Т R Fuel consumption monitor signal т R Т R Malfunction indicator lamp signal т R Wide open throttle position signal Door lock/unlock request signal Т R Т Hazard request signal R т R Hazard warning lamp request signal Ignition knob switch signal Т R Т Panic alarm request signal R Power window open request signal Т R CVT position indicator signal Т R R Т CVT self-diagnosis signal R Т Input shaft revolution signal

Revision: 2006 August



[CAN]

T: Transmit R: Receive

Signals	ECM	Intelli- gent Key unit <sup>*1</sup>	ТСМ	BCM	Dis- play control unit	Uni- fied meter and A/ C amp.	Driver seat control unit <sup>*2</sup>	AWD control unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Manual mode indicator signal			Т			R				
Output shaft revolution signal	R		Т							
P range signal			Т				R			
Second position indicator signal			Т			R				
A/C switch signal	R			Т						
Blower fan motor switch signal	R			Т						
Buzzer output signal				Т		R				
Door lock/unlock status signal		R		Т						
Door switch signal		R		Т	R	R	R			R
Front fog lights request signal				Т						R
Front wiper request signal				Т						R
High beam request signal				Т		R				R
Horn chirp signal				Т						R
Ignition switch signal				Т			R			R
Key fob door unlock signal				Т			R			
Key fob ID signal				Т			R			
Key switch signal				Т			R			
Low beam request signal				Т						R
Oil pressure switch signal				T R		R				Т
Position lights request signal				т		R				R
Rear window defogger switch signal				т						R
Sleep request 1 signal				Т		R				
Sleep request 2 signal				Т						R
				R	Т		R			
System setting signal				Т	R		Т			
Theft warning horn request signal				Т						R
Tire pressure data signal				T <sup>*1</sup>	R <sup>*1</sup>					
Tire pressure signal				T <sup>*1</sup>		R*1				
Turn indicator signal				T		R				
				•	Т	R				
A/C switch/indicator signal					R	Т				
AWD lock switch signal						Т		R		
Distance to empty signal					R	Т				
Fuel level low warning signal					R	Т				
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				

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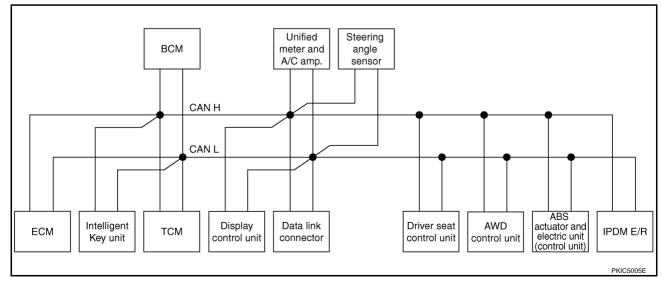
Signals	ECM	Intelli- gent Key unit <sup>*1</sup>	ТСМ	BCM	Dis- play control unit	Uni- fied meter and A/ C amp.	Driver seat control unit <sup>*2</sup>	AWD control unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R	A
Not manual mode signal			R			Т					С
Parking brake switch signal				R		Т		R			
Seat belt buckle switch signal				R		Т					
Second position signal			R			Т					D
Stop lamp switch signal								R	Т		
			R			Т					Е
Turn LED burnout status signal				R		Т					
Vehicle speed signal			R			R		R	Т		
venicie speed signal	R	R		R	R	Т	R				F
AWD lock indicator lamp signal						R		Т			
AWD warning lamp signal						R		т			G
ABS operation signal			R						Т		
ABS warning lamp signal						R			Т		
Brake warning lamp signal						R			Т		Н
Front wiper stop position signal				R						Т	
High beam status signal	R									Т	I
Low beam status signal	R									Т	1
Rear window defogger control sig- nal	R				R					Т	J

• \*1: with Intelligent Key system model only.

• \*2: with automatic drive positioner model only.

### TYPE 6 System Diagram

• Type 6



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## Input/output Signal Chart

									I: Irai	nsmit R:	Receive
Signals	ECM	Intelli- gent Key unit	тсм	BCM	Dis- play con- trol unit	Uni- fied meter and A/C amp.	Steer- ing angle sen- sor	Driver seat con- trol unit	AWD con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
A/C compressor request signal	Т										R
Accelerator pedal position signal	Т		R						R	R	
ASCD CRUISE lamp signal	Т					R					
ASCD SET lamp signal	Т					R					
Closed throttle position signal	Т		R								
Cooling fan speed request signal	Т										R
Engine and CVT integrated control	Т		R								
signal	R		Т								
Engine coolant temperature signal	Т					R					
Engine speed signal	Т	R	R		R	R			R	R	
Engine status signal	Т			R							
Fuel consumption monitor signal	Т					R					
Fuer consumption monitor signal					R	Т					
Malfunction indicator lamp signal	Т					R					
Wide open throttle position signal	Т		R								
Door lock/unlock request signal		Т		R							
Hazard request signal		Т		R							
Hazard warning lamp request signal		Т		R							
Ignition knob switch signal		Т		R							
Panic alarm request signal		Т		R							
Power window open request signal		Т		R							
CVT position indicator signal			Т			R				R	
CVT self-diagnosis signal	R		Т								
Input shaft revolution signal	R		Т								
Manual mode indicator signal			Т			R					
Output shaft revolution signal	R		Т								
P range signal			Т					R		R	
Second position indicator signal			Т			R				R	
A/C switch signal	R			Т							
Blower fan motor switch signal	R			Т							
Buzzer output signal				Т		R					
Door lock/unlock status signal		R		Т							
Door switch signal		R		Т	R	R		R			R
Front fog lights request signal				Т							R
Front wiper request signal				Т							R
High beam request signal				Т		R					R
				-							

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Horn chirp signal

Т

R

T: Transmit R: Receive

Signals	ECM	Intelli- gent Key unit	тсм	BCM	Dis- play con- trol unit	Uni- fied meter and A/C amp.	Steer- ing angle sen- sor	Driver seat con- trol unit	AWD con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R	A B C
Ignition switch signal				Т				R			R	
Key fob door unlock signal				Т				R				D
Key fob ID signal				Т				R				
Key switch signal				Т				R				
Low beam request signal				Т							R	E
Oil pressure switch signal				T R		R					Т	F
Position lights request signal				Т		R					R	Γ
Rear window defogger switch signal				Т							R	
Sleep request 1 signal				Т		R						G
Sleep request 2 signal				Т							R	
System setting signal				R T	T R			R T				Н
Theft warning horn request signal				Т							R	
Tire pressure data signal				Т	R							
Tire pressure signal				Т		R						
Turn indicator signal				Т		R						
A/C switch/indicator signal					T R	R T						J
AWD lock switch signal						Т			R			LAN
Distance to empty signal					R	Т						
Fuel level low warning signal					R	Т						
Fuel level sensor signal	R					Т						L
Manual mode shift down signal			R			Т						
Manual mode shift up signal			R			Т						Μ
Manual mode signal			R			Т						IVI
Not manual mode signal			R			Т						
Parking brake switch signal				R		Т			R			
Seat belt buckle switch signal				R		т						
Second position signal			R			Т						
Stop lamp switch signal			R			т			R	Т		
Turn LED burnout status signal			R	R		T			R	т		
Vehicle speed signal	R	R		R	R	T		R	1			
Steering angle sensor signal				<u> </u>			Т			R		
AWD lock indicator lamp signal						R			т			
AWD warning lamp signal						R			Т			

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Signals	ECM	Intelli- gent Key unit	тсм	BCM	Dis- play con- trol unit	Uni- fied meter and A/C amp.	Steer- ing angle sen- sor	Driver seat con- trol unit	AWD con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
ABS warning lamp signal						R				Т	
Brake warning lamp signal						R				Т	
SLIP indicator lamp signal						R				Т	
VDC OFF indicator lamp signal						R				Т	
VDC operation signal			R							Т	
Front wiper stop position signal				R							Т
High beam status signal	R										Т
Low beam status signal	R										Т
Rear window defogger control signal	R				R						Т

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	[CAN]	
CAN SYSTEM (TYPE 1)	PFP:23710	
Component Parts and Harness Connector Location	NKS002U0	А
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	NKS002U1	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	NKS002U2	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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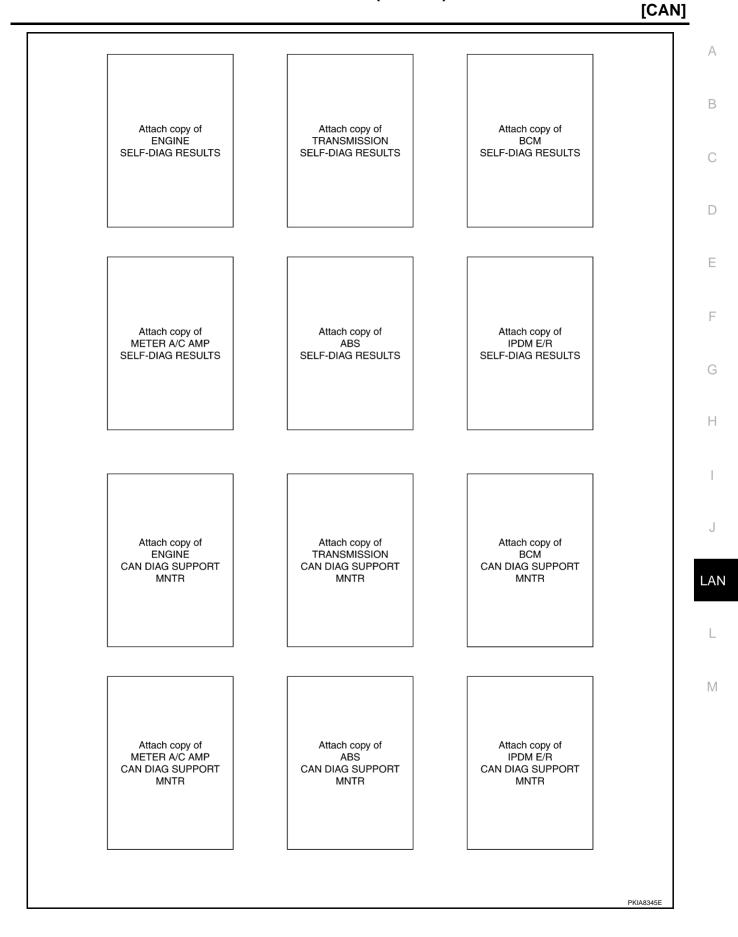
### Check Sheet

#### NKS002U3

### NOTE:

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

Check sheet table											
				-	CAN DIA	G SUPPOR	RT MNTR				
SELECT SYSTEM	screen	Initial	Transmit			Rec	eive diagn	osis			SELF-DIAG RESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R	
ENGINE	-	-	UNKWN	_	UNKWN	UNKWN	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT CAN COMM CIRCUIT (U1000) (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	UNKWN	_	(U1000) (U1001) CAN COMM CIRCUIT (U1000) —
всм	No	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT
Display control unit	indication	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	(U1000)
METER A/C AMP	No	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	_	
	indication		UNKWN		_	ONIXVIN	CINICUIN		ONIXVIN		CAN COMM CIRCUIT
ABS	No	NG		UNKWN							(U1000) — CAN COMM CIRCUIT
IPDM E/R	indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	(U1000) —
Symptoms :											
				tach copy ECT SYS					ttach cop LECT SY		
Display	control	unit Trans	slation St	neet: Rev	rite the f	ollowing	names a	and put a	check m	ark on th	e above check sheet table.
Confirmation/Adj			1	eck shee		-				nt Display	
CAN COMM		-17			liagnosis		_	CIRC 5	,	. ,	METER/M&A
CAN CIRC 1				Transmit	diagnos	is	-	CIRC 6			_
CAN CIRC 2				В	СМ		CAN (	CIRC 7			IPDM E/R
CAN CIRC 3				E	СМ		CAN (	CIRC 8			_
CAN CIRC 4					_		CAN	CIRC 9			-
				CAN	DIAG S		n copy of control u MONITO	nit	k Sheet		
1											PKIC5335E



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

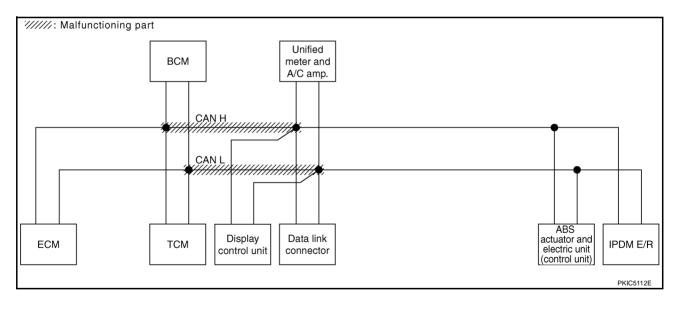
#### NOTE:

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

#### Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-157, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	Iscreen	1	<b>-</b>			Red	eive diagn	osis			SELF-DIAG	BESUITS
	1 Soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	-	_	UNKWN	—	UNKWN	UNKWN	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
TRANSMISSION	increation	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	_
BCM	N indication	NG	UNKWN	UNKWN	—	-	_	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (UN00)	—
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U 1000)	_



### [CAN]

### Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> <u>159, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit"</u>.

					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	Iscreen	Initial	Transmit			Red	eive diagn	osis			SELF-DIAG	BESUITS
	obiech	diagnosis	diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	—	UNKWN	UNKWN	-	CAN COMMCIRCUIT (U 1000)	_
BCM	No indication	NG	UNKWN	UNKWN	1	-	-	UNKWN	—	UNKINN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	—	UNKWN	-	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (U 1000)	_
ABS	-	NG	UNKWN	UNKWN	I	-	_	_	-	-	CAN COMMCIRCUIT (UN00)	_
IPDM E/R	N incluation	_	UNKWN	UNKWN	_	UNKWN	—	_	_	-	CAN COMMCIRCUIT (U100)	_
												PKIC5337E
//////: Malfunc		art										FRICSSSTE
//////: Malfunc	ioning p	art										PRICOSSIE
//////: Malfunc	ioning p	art BC	M		me	Inified eter and C amp.						PRICOSSITE

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ABS

actuator and

electric unit (control unit) IPDM E/R

PKIC5113E

CAN L

тсм

Display

control unit

Data link

connector

M

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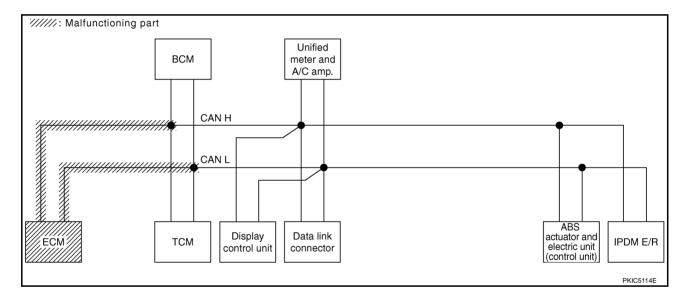
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ECM

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

					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	l screen					Red	eive diagn	osis				RESULTS
SELECT STOLEN	Scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	-	_	UNKWN	_	UNKIN	UNKWN	-	UNKIN	_	UNKWN	CAN COMM/CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMM/CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMM/CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	-	-	_	-	-	CAN COMM/CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	-	_	_	_	CAN COMM/CIRCUIT	_



## [CAN]

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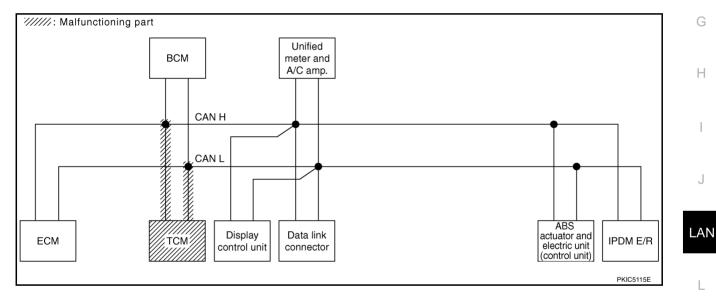
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#### Case 4

Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

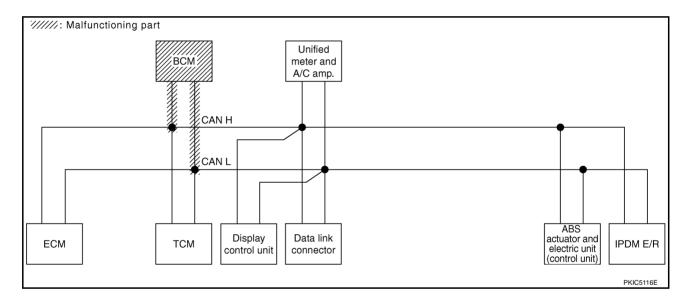
					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	Iscreen	la Bal	Tronomia			Red	ceive diagn	osis			SELE-DIAG	RESULTS
	1 BOICEIT	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-		UNKWN	_	UNKIN	UNKWN	-	UNKWN	_	UNKWN	CAN COMMCIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
TRANSMISSION	No indivation	NG	UNKWN	UNKWN	_	—	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT	—
BCM	No indication	NG	UNKWN	UNKWN	_	—	—	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	I	UNKWN	—	-
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKWN	UNKWN	_	UNKWN	-	CAN COMMCIRCUIT (U1000)	—
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	-	—	-	-	CAN COMM CIRCUIT (U1000)	_



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Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

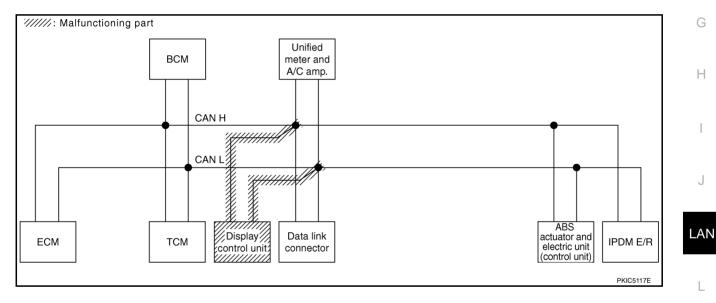
					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	l screen		+ :			Red	ceive diagn	osis				RESULTS
	scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	N ind ation	NG	UNKWN	UNKWN	_	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	—	_	_	_	CAN COMM CIRCUIT	_



#### Case 6

Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

			-		CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	l screen	1.00.1	<b>T</b>			Red	ceive diagn	osis				RESULTS
	1 Boreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	—	UNKWN	_	UNKWN	UNKWN	—	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	—	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	1	-	—	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	Ι	UNKWN	-	UNKIN	Ι	UNKIN	_	_
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMM/CIRCUIT (U100)	_
ABS	-	NG	UNKWN	UNKWN	Ι	-	—	-	—	—	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	-	CAN COMM CIRCUIT (U1000)	_

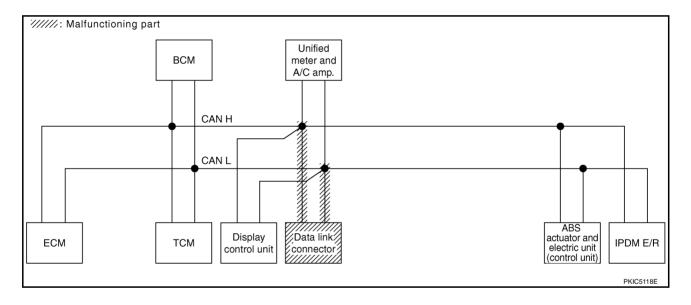


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Check data link connector circuit. Refer to LAN-166, "Data Link Connector Circuit Inspection" .

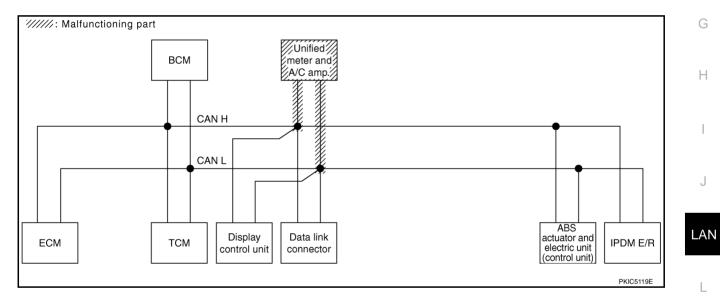
					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	A screen					Red	ceive diagn	osis				RESULTS
	Scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	-		UNKWN	-	UNKWN	UNKWN	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
TRANSMISSION	No inclusion	NG	UNKWN	UNKWN	—	-	—	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No inclusion	NG	UNKWN	UNKWN	—	-	-	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	_
METER A/C AMP	Not inclusion	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	UNKWN	_	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No inclusion	-	UNKWN	UNKWN	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



#### Case 8

Check unified meter and A/C amp. circuit. Refer to LAN-166, "Unified Meter and A/C Amp. Circuit Inspection".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	l screen	1	<b>T</b>			Red	ceive diagn	osis			SELF-DIAG	RESULTS
	1 Boreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	—	UNKWN	_	UNKWN	UNKWN		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	—	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	_	_
METER A/C AMP	No individuation	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U 1000)	_
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN		_	-	_	CAN COMM CIRCUIT (U1000)	_



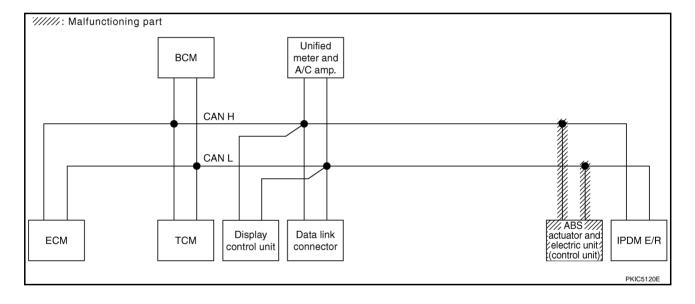
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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-168</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	Laaraan					Red	ceive diagn	osis				RESULTS
SELECT STOLEN	Scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	I NESULIS
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	—
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (UN00)	_
ABS	-	V	UNKWN	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	—	UNKWN	—	—	_	—	CAN COMM CIRCUIT (U1000)	_



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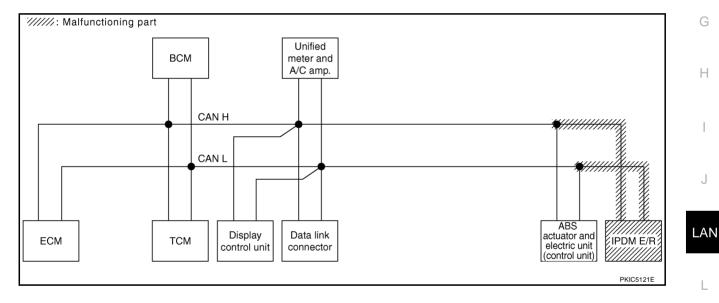
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### Case 10

#### Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	l screen	1.00.1	<b>T</b>			Rec	ceive diagn	osis				RESULTS
	1 Boreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	I	UNKWN	—	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	N indication	_	UNKWN	UNKWN	-	UNKWN	-	-	Ι	-	CAN COMM CIRCUIT (U 1000)	—



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Check CAN communication circuit. Refer to LAN-169, "CAN Communication Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	1 screen					Red	ceive diagn	osis			SELF-DIAG	
	a screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		INEGOLIS
ENGINE	_	_	UNKWN	-	UNKWN	UNKWN	_	UNKIN	_	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCU (U 1001)
TRANSMISSION	No. increation	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN00)	_
BCM	N incluation	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	_	—
METER A/C AMP	incration	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
ABS	-	V	UNKWN	UNKWN	-	-	-	_	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U 1000)	_

#### Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-170</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	screen	1	T			Red	eive diagn	osis			SELE-DIAG	RESULTS
	borcen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	-	UNKWN	UNKWN	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT	CAN COMM CIRCUIT (U 101)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	—	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	_	—	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	_	—
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKWN	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	—	UNKWN	—	-	_	—	CAN COMM CIRCUIT (U1000)	_
												PKIC5347E

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#### Case 13

А Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection"

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	l screen					Red	ceive diagn	osis			SELF-DIAG	
SELECT STOLEN	scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		TRESOLIS
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	—	-	—	-	-	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	—	UNKWN	-	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	—	_	—	—	_	-	-	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	Ι	UNKWN	—	-	—	—	CAN COMM CIRCUIT (U1000)	—

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	[CAN]
CAN SYSTEM (TYPE 2)	PFP:23710
Component Parts and Harness Connector Location	NKS002KZ
Refer to LAN-25, "Component Parts and Harness Connector Location".	
Schematic	NKS002L0
Refer to LAN-26, "Schematic".	
Wiring Diagram — CAN —	NKS002L1
Refer to LAN-27, "Wiring Diagram — CAN —".	

### Check Sheet

### NOTE:

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

een Initial diagnos	diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN	-	TCM UNKWN — — UNKWN — —	BCM /SEC UNKWN UNKWN  UNKWN UNKWN		METER /M&A UNKWN UNKWN UNKWN UNKWN UNKWN 	VDC/TCS /ABS 	E/R UNKWN — UNKWN — — — — —		
diagnos diagnos disation disation No iscation NG NO NO NG NG NG NG NG NG NG NO NG NG NO NG NG NO NG	diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	  	UNKWN UNKWN	/SEC UNKWN UNKWN UNKWN UNKWN UNKWN		/M&A UNKWN UNKWN UNKWN UNKWN UNKWN  UNKWN 	/ABS UNKWN UNKWN	E/R UNKWN — UNKWN — — — — —	(U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
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lication NG No NG lication NG ication NG ication C No NG lication NG No NG	A UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN			UNKWN UNKWN UNKWN —	— — UNKWN —	UNKWN UNKWN UNKWN UNKWN - UNKWN	UNKWN - UNKWN - UNKWN		CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
No         NG           No         NG           —         NG           ication         —           ication         —           No	A UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN				UNKWN UNKWN UNKWN 	UNKWN - - -	UNKWN UNKWN — — —	U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
No         NG           ication         NG           No	a         UNKWN           ·         UNKWN           a         UNKWN           a         UNKWN           ·         UNKWN	UNKWN UNKWN UNKWN UNKWN			UNKWN UNKWN —	UNKWN — —	UNKWN UNKWN - -	UNKWN - - -	UNKWN   	CAN COMM CIRCUIT (U1000) — CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
Incation       -     NG       No     -       No     NG       Incation     NG       -     NG       No     -       No     -	a         UNKWN           ·         UNKWN           a         UNKWN           a         UNKWN           ·         UNKWN	UNKWN UNKWN UNKWN UNKWN			UNKWN UNKWN —	UNKWN — —	UNKWN UNKWN - -	UNKWN - - -	UNKWN   	- CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	Г Г Г
No — No NG ication — NG No —	UNKWN	UNKWN UNKWN UNKWN Attach c			UNKWN UNKWN —	UNKWN — —	- UNKWN - -	UNKWN - - -		(U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	Г Г Г
No NG Ication NG — NG No _	a UNKWN a UNKWN UNKWN	UNKWN UNKWN				-	UNKWN  	_ _ _		CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
No _		UNKWN		-	-	-		ach copy		CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	г
No _		UNKWN	opy of		UNKWN			ach copy		CAN COMM CIRCUIT	r
		Attach c	opy of					ach copy	/ of	(U1000)	
				1							
		Sheet: F	Rewrite t	he follov						e above check she	
tment Displa	lay C		eet table		<u> </u>		ation/Adj	ustment	Display		et table Display
			al diagno mit diag			CAN CIF				ME I E	ER/M&A —
		nano	BCM							IPD	M E/R
			ECM								_
			_			CAN CIF	RC 9				_
		С	AN DIAG	dis	play cor	trol unit		Sheet			
			c	ECM —	ECM —	ECM ( — (	ECM CAN CIF	ECM CAN CIRC 8 — CAN CIRC 9 Attach copy of display control unit	ECM CAN CIRC 8 — CAN CIRC 9 Attach copy of	ECM CAN CIRC 8 — CAN CIRC 9 Attach copy of display control unit	ECM CAN CIRC 8 — CAN CIRC 9 Attach copy of display control unit

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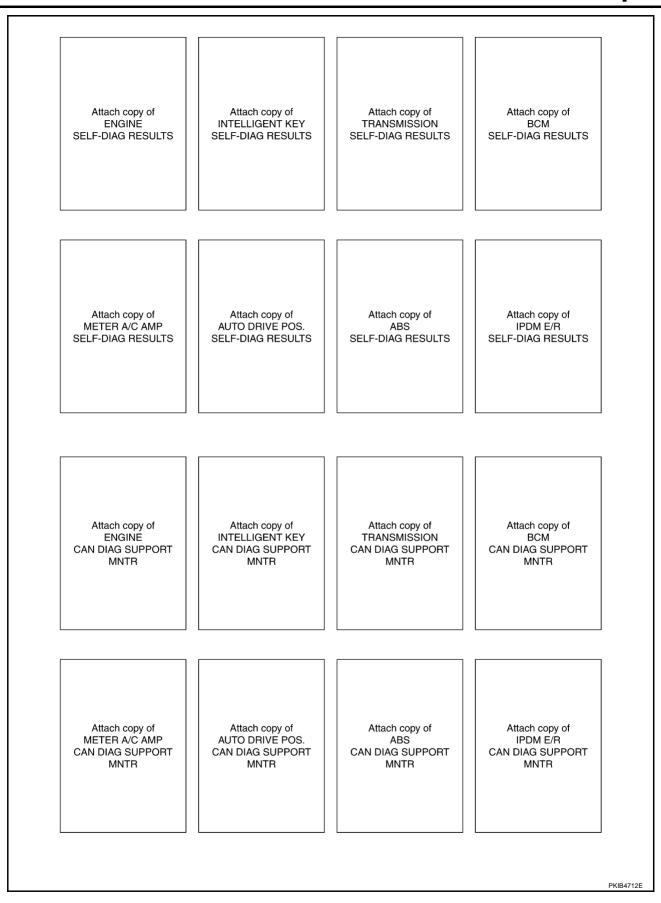
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### **CHECK SHEET RESULTS (EXAMPLE)**

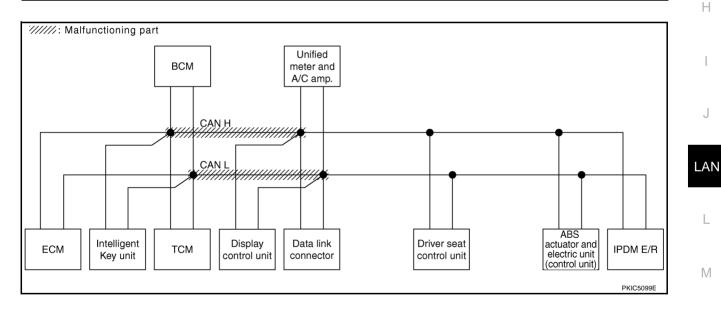
#### NOTE:

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

#### Case 1

Check harness between TCM and data link connector. Refer to LAN-157, "Inspection Between TCM and Data Link Connector Circuit" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen	Initial	Transmit				Receive	diagnosis					RESULTS
	diagnosis diagr				I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	N individuation	-	UNKWN	UNKWN	_	-	UNKWN	-	UNKWN	_	_	CAN COMMCIRCUIT (U 1000)	_
TRANSMISSION	N/ individuation	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	—	CAN COMMCIRCUIT (U 100)	_
BCM	indivation		UNKWN	UNKWN	UNKWN	_	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	_	UNKWN	-	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	-	UNIWN	UNHWN	UNKWN	_	UNKWN	-	CAN COMMCIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	-	UNKWN	UNHWN	-	UNKWN	_	-	CAN COMMCIRCUIT (UN00)	_
ABS	_	NG	UNKWN	UNKWN	I	_	-	-	_	-	-	CAN COMMCIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	_	-	-	CAN COMMCIRCUIT (UN00)	_

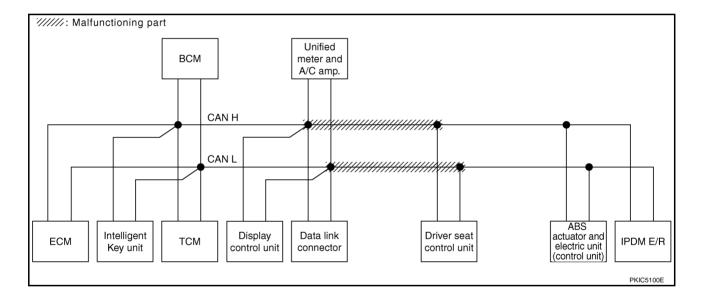


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Check harness between data link connector and driver seat control unit. Refer to <u>LAN-157</u>, "Inspection <u>Between Data Link Connector and Driver Seat Control Unit Circuit</u>".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen	1	T				Receive	diagnosis				SELE-DIAG	BRESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	_	UNKWN	-	_	UNKWN	UNKWN	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	—	UNKWN	_	UNKWN	—	_	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN		-	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	-	UNKWN	_	—
METER A/C AMP	No indication	-	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	-	UNKIN	_	CAN COMMCIRCUIT (UN00)	—
AUTO DRIVE POS.	N ind ation	NG	UNKWN	-	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMMCIRCUIT (UN00)	—
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	-	CAN COMM/CIRCUIT (UN00)	_
IPDM E/R	N indivation	-	UNKWN	UNKWN	_	-	UNKWN	_	-	-	-	CAN COMM/CIRCUIT (UN00)	_

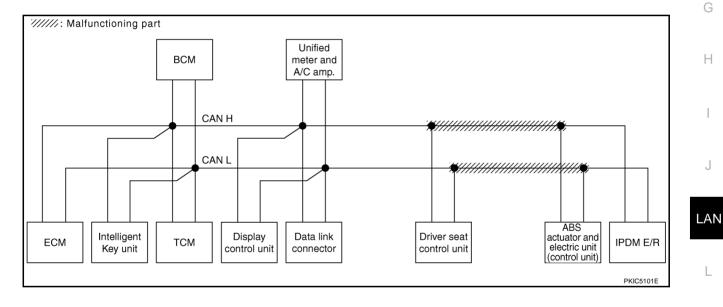


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#### Case 3

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u><u>162</u>, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit".

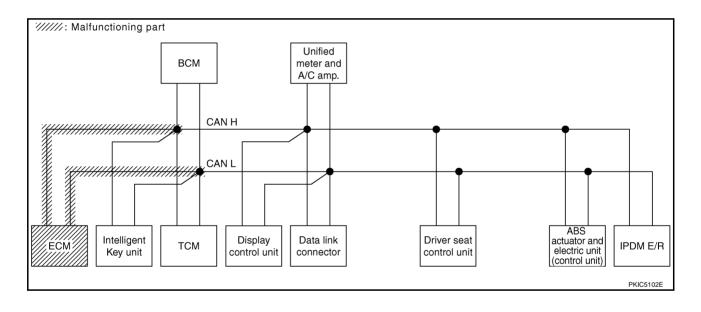
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	Initial	Transmit				Receive	diagnosis				SELF-DIAG	BESUITS
	diagnosis diagr				I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	—	-	UNKWN	UNKWN	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	_	UNKWN	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	I	-	UNKWN	-	UNKWN	-	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	—	CAN COMM CIRCUIT (U 1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_		UNKWN	UNKWN	_	UNKWN	-	—	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	_	_	—	_	-	_	_	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	N ind ation	_	UNKWN	UNKWN	_	_	UNKWN	-	-	_	-	CAN COMM CIRCUIT (UN00)	_



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

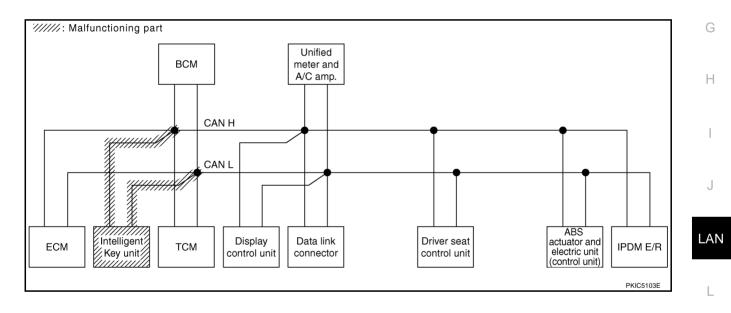
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM screen Initial diagnosis						Receive	diagnosis					RESULTS	
	3010011		Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	-	_	UNKWN	UNKWN	-	UNKWN	-	UNKWN		CAN COMM CIRCU (UN01)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMMCIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN		UNKWN	—	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN		-	-	UNKWN	-	UNKWN	-	UNKWN		-
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	Ι	CAN COMMCIRCUIT (UN00)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	—	UNKWN	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	UNKWN	_	_	-	-	-	-	-	CAN COMM/CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMMCIRCUIT (U N00)	_



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Check Intelligent Key unit circuit. Refer to LAN-164, "Intelligent Key Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELF-DIAG	RESULTS
SELECT STOLEN	Screen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		THESOEIS
ENGINE	_	_	UNKWN	-		UNKWN	UNKWN	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	N ind ation	-	UNKWN	UNKWN	Ι	Ι	UNKWN	-	UNKWN	-	—	CAN COMM CIRCUIT (UN00)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKIN	_	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	I	-	UNKWN	-	UNKWN	-	UNKWN	_	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	Ι	1	UNKWN	UNKWN	-	UNKWN	-	—	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	I	_	_	_	_	_	—	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	UNKWN	-	_	_	_	CAN COMM CIRCUIT (U1000)	_



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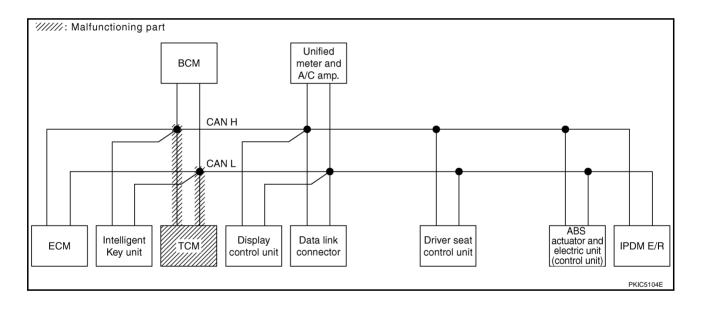
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Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

					CAN	DIAG SU	PPORT M	NTR							
SELECT SYSTEM	screen	Initial	Transmit				Receive	diagnosis					B RESULTS		
	diagnosi			ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R				
ENGINE	-	—	UNKWN	-	—	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM/CIRCUIT (UN00)	(U <b>10</b> 1)		
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	-	Ι	CAN COMM CIRCUIT (U1000)	_		
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	—	-	_	UNKWN	UNKWN	Ι	CAN COMM/CIRCUIT (UN00)	-		
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_		
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	_	-		
METER A/C AMP	No indication	_	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	-	UNKWN	Ι	CAN COMMCIRCUIT (UN00)	—		
AUTO DRIVE POS.	No indication	NG	UNKWN	-	—	UNKWN	UNKWN	-	UNKWN	-	Ι	CAN COMM/CIRCUIT (UN00)	_		
ABS	-	NG	UNKWN	UNKWN	-	-	-	-		-	Ι	CAN COMM CIRCUIT (U1000)	_		
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_		



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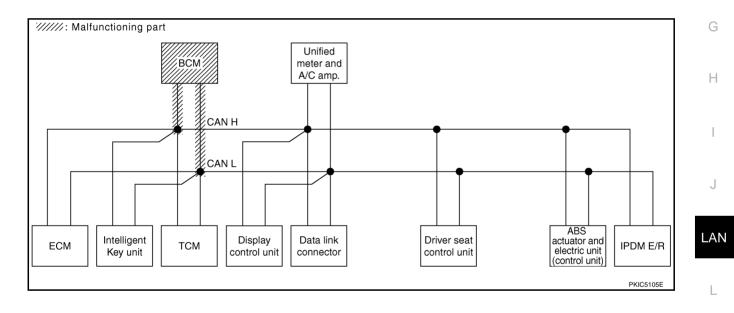
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### Case 7

Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	NTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELF-DIAG	RESULTS
OLLEGT GTOTEM		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		HEODEIO
ENGINE	-	-	UNKWN	-	_	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	UNKWN	-	-	CAN COMM/CIRCUIT (U 1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	indivation	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	-	—
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (U 100)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	_	UNKWN	UNKWN		UNKWN	-	-	CAN COMM/CIRCUIT (U 1000)	_
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	_	-	-	CAN COMMCIRCUIT (U 1000)	_

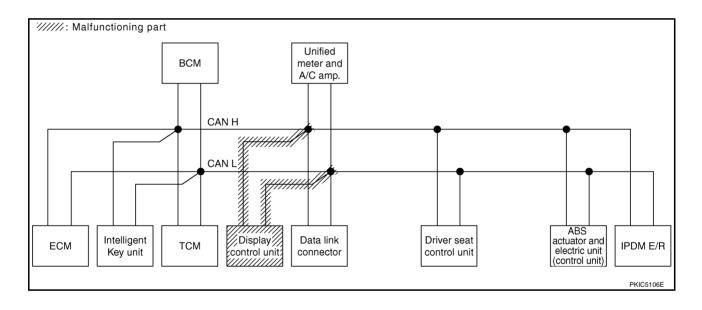


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Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT M	NTR					
SELECT SYSTEM	screen	1-20-1	T				Receive of	diagnosis				SELF-DIAG	BESUITS
OLLEOT OT OT CITEM	ooroon	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		TILOULIU
ENGINE	-	_	UNKWN	_		UNKWN	UNKWN		UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	I	—	UNKWN		UNKWN	-	—	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	I	—	-	I	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG		UNKWN	I	-				-	UNKWN	_	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	I	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMMCIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	I	UNKWN	UNKWN	I	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	Ι	-	Ι	-	Ι	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	I	—	UNKWN		-	—	_	CAN COMM CIRCUIT (U1000)	_



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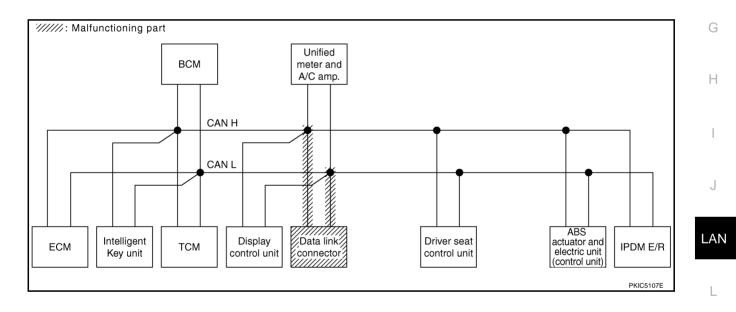
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### Case 9

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Check data link connector circuit. Refer to LAN-166, "Data Link Connector Circuit Inspection" .

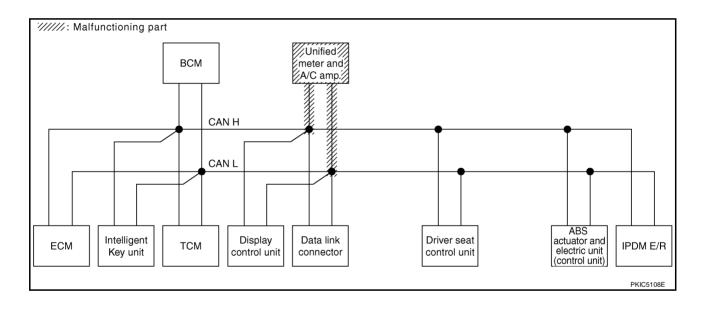
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					BRESULTS
SELECT STOTEM	3016611	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		I LOOLIO
ENGINE	_	_	UNKWN	_	1	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	N ind ation	-	UNKWN	UNKWN	I	-	UNKWN	-	UNKWN	-	—	CAN COMM CIRCUIT (U1000)	
TRANSMISSION	N inditation	NG	UNKWN	UNKWN	I	-	—	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	—	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
Display control unit	-	NG	UNKWN	UNKWN	l	1	UNKWN	-	UNKWN	-	UNKWN	_	
METER A/C AMP	indivation	-	UNKWN	UNKWN	I	UNKWN	UNKWN	UNKWN	-	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	N indivation	NG	UNKWN	Ι	1	UNKWN	UNKWN	-	UNKWN	-	—	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN		-	_	-	_	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Ng ind ation	-	UNKWN	UNKWN	_	_	UNKWN	-	_	_	-	CAN COMM CIRCUIT (U1000)	_



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Check unified meter and A/C amp. circuit. Refer to LAN-166, "Unified Meter and A/C Amp. Circuit Inspection" .

					CAN	DIAG SU	PPORT M	NTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELF-DIAG	RESULTS
	3010011	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCU (UN01)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	_	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U N00)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-		UNKWN	-	CAN COMMCIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	_	—
METER A/C AMP	N inditation	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	Ι	CAN COMM CIRCUIT (UN00)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	-		UNKWN	UNKWN		UNKWN	-	-	CAN COMM CIRCUIT (UN00)	_
ABS	-	NG	UNKWN	UNKWN	-	_	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_



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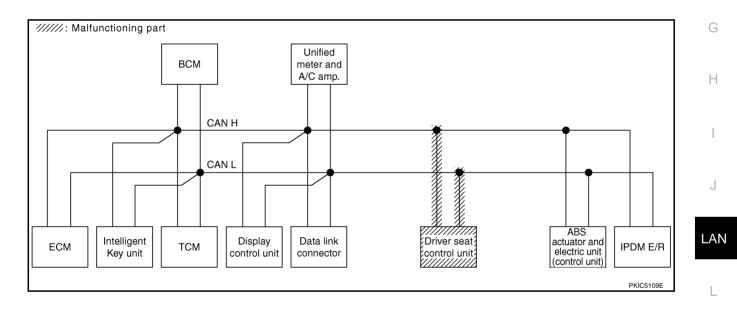
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### Case 11

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Check driver seat control unit circuit. Refer to LAN-167, "Driver Seat Control Unit Circuit Inspection" .

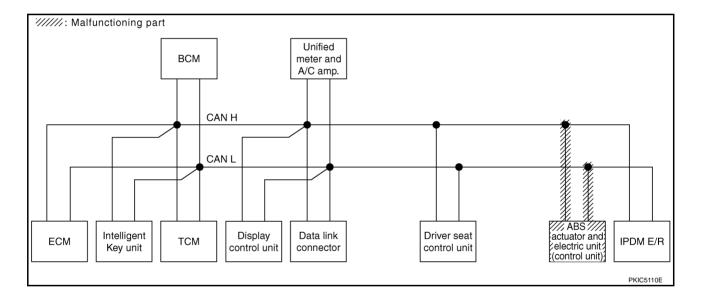
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELF-DIAG	BESUITS
OLLEOT OTOTEM	3016611	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	-	_	UNKWN	-		UNKWN	UNKWN	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	I	-	UNKWN	-	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	1	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	I	-	UNKWN	-	UNKWN	-	UNKWN	_	_
METER A/C AMP	No indication		UNKWN	UNKWN	I	UNKWN	UNKWN	UNKWN	_	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	N ind ation	NG	UNKWN	-	l	UNKWN	UNKWN	-	UNKWN	-	_	CAN COMMCIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	I	-	I	_	_	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U1000)	_



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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-168</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

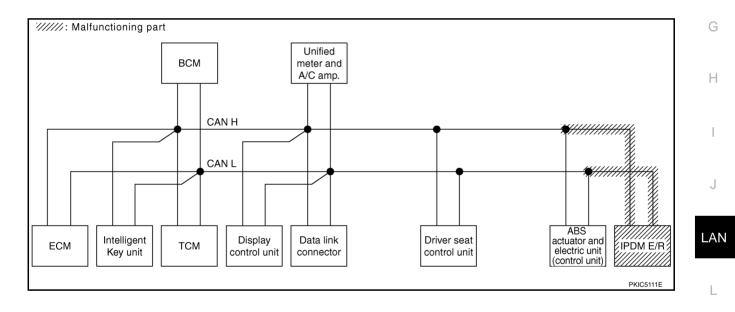
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen	1-11-1	T				Receive	diagnosis				SELE-DIAG	BRESULTS
OLLEOT OTOTEM	ooreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	Ι	—	UNKWN	UNKWN	-	UNKWN	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	_	—	UNKWN	-	UNKWN	Ι	Ι	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	I	-	UNKWN	UNKWN	Ι	CAN COMMCIRCUIT (UN00)	
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	_	UNKWN	-	UNKWN	-	UNKWN	_	_
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	Ι	CAN COMMCIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	Ι	—	UNKWN	UNKWN	-	UNKWN	Ι	Ι	CAN COMM CIRCUIT (U1000)	_
ABS	-	V		UNKWN	—	_		_	_	_		CAN COMMCIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U1000)	_



### Case 13

#### Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELF-DIAG	BESHITS
SELECT CTOTEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	-	_	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	Ι	UNKWN	UNKWN	UNKWN	-	UNKWN	I	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	_	-	UNKWN	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	_	_	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Ny individuation	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM/CIRCUIT (U1000)	_



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Check CAN communication circuit. Refer to LAN-169, "CAN Communication Circuit Inspection" .

					CAN	DIAG SU	PPORT M	NTR					
SELECT SYSTEM	screen	1-11-1	T				Receive	diagnosis				SELE-DIAG	RESULTS
	oreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	_		_		UNKWN	UNKWN		UNKWN	_	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMMCIRCU (UN01)
INTELLIGENT KEY	indivation	_	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	CAN COMM/CIRCUIT (UN00)	_
TRANSMISSION	N indication	NG	UNKWN	UNKWN	l	-	-	-	UNKWN	UNKWN	-	CAN COMMCIRCUIT (UN00)	_
BCM	N indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG		UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	-	—
METER A/C AMP	N indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	Ι	UNKWN	-	CAN COMM CIRCUIT (UN 00)	_
AUTO DRIVE POS.	N indication	NG	UNKWN	-	Ι	UNKWN	UNKWN	-	UNKWN	-	—	CAN COMMCIRCUIT (UN00)	—
ABS	-	N		UNKWN	-	-	-	-	_	-	-	CAN COMM/CIRCUIT (UN00)	—
IPDM E/R	N individuation	_	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	CAN COMM/CIRCUIT (UN00)	_

#### Case 15

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-170</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	scroop						Receive	diagnosis					B RESULTS
SELECT OT STELM	3010011	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	—	_	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMMCIRCUIT (UN00)	CAN COMMCIRCU (U1001)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	—	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	—	_	UNKWN	UNKWN	-	UNKWN	-	-	CAN COMMCIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	_	_	-	-	_	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	_	_	_	CAN COMM CIRCUIT (U1000)	-

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-170</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection"</u>.

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen	1	<b>T</b>				Receive	diagnosis				SELE-DIAG	BRESULTS
	Screen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERO
ENGINE	-	-	UNKWN	—	_	UNKWN	UNKWN	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
NTELLIGENT KEY	No indication		UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
TRANSMISSION	No indication	NG	UNKWN	-	-	—	-	—	—	UNKWN	-	CAN COMM CIRCUIT (UN 00)	
ЗСМ	No indication	NG	UNKWN	UNKWN	UNKWN	—	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
Display control unit	-	NG	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	-	UNKWN	_	_
METER A/C AMP	No indication		UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	—	_	UNKWN	UNKWN	—	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	-	-	_	_	_	_	-	-	CAN COMM CIRCUIT (UN00)	_
PDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	-	_	-	-	CAN COMM CIRCUIT (U1000)	_

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CAN SYSTEM (TYPE 3)	PFP:23710
Component Parts and Harness Connector Location	NKS002U4
Refer to LAN-25, "Component Parts and Harness Connector Location".	
Schematic	NK\$002U5
Refer to LAN-26, "Schematic".	
Wiring Diagram — CAN —	NKS002U6
Refer to LAN-27, "Wiring Diagram — CAN —".	

# **Check Sheet**

### NOTE:

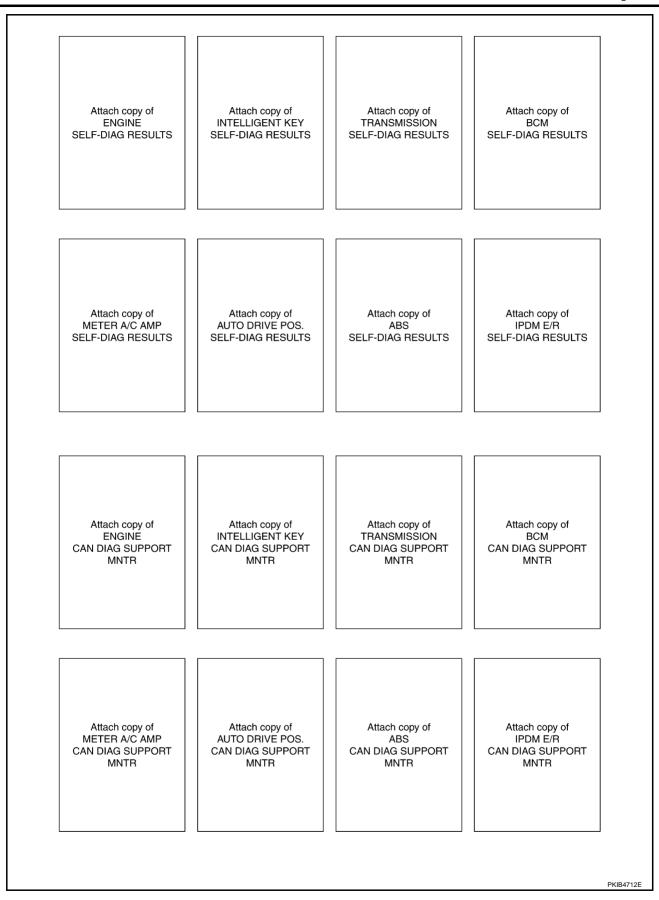
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

SELECT SYSTEM screen Init diagr ENGINE — - INTELLIGENT KEY No indication -												
GINE — -				CAN DIA	G SUPPOR	RT MNTR	neie					
		ЕСМ	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIA(	G RESULTS
LIELIGENIKEY I –	- UNKWN	-	_	UNKWN	UNKWN	-	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
indication	- UNKWN	UNKWN	—	—	UNKWN	_	UNKWN		—	Ι	CAN COMM CIRCUIT (U1000)	_
ANSMISSION No Indication	G UNKWN	UNKWN	—	—	—	-	UNKWN	Ι	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
M No No Nindication	G UNKWN	UNKWN	UNKWN	—	—	-	UNKWN		—	UNKWN	CAN COMM CIRCUIT (U1000)	_
olay control unit - N	G UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	_	_	UNKWN	_	_
TER A/C AMP No indication -	- UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
TO DRIVE POS. No N indication	G UNKWN	-	_	UNKWN	UNKWN	-	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
is — N	G UNKWN	UNKWN	_	UNKWN	_	-	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
DM E/R No - indication	- UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
		Attach SELECT	copy of SYSTE					Attach co LECT S	opy of YSTEM			
Display control uni	t Translatio	n Shoot:	Powrite	the foll		2000.0		chock	mark on	the abo	wa ahadk shaat	rabla
Confirmation/Adjustment Dis		Check s			-		-		ent Disp		Check sheet ta	
CAN COMM			tial diag			CAN C				-	METER/	. ,
AN CIRC 1		Tran	smit dia			CAN C					-	
AN CIRC 2 AN CIRC 3			BCM ECM			CAN C					IPDM	=/R

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### CHECK SHEET RESULTS (EXAMPLE)

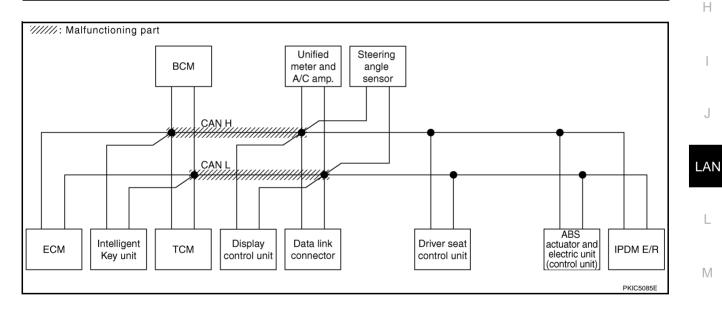
#### NOTE:

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

#### Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-157</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	osis				SELF-DIAG	RESULTS
OLLEOT OT OTTEN	soreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	ТСМ	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	_	UNKWN	UNKWN	_	UNKVN	-		UNKVN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No inclusion	-	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	—	_		CAN COMMCIRCUIT (U1000)	_
TRANSMISSION	No inducation	NG	UNKWN	UNKWN	-	-	—	—	UNKWN	-	UNKWN	Ι	CAN COMMCIRCUIT (UN00)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN		—	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	—	UNKVN	—	UNKWN	-	-	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	_	UNKWN	UNKVN	UNKWN	_	-	UNKWN	-	CAN COMMCIRCUIT (UN00)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	_	_	UNKWN	UNKVN	—	UNKWN	-	_		CAN COMMCIRCUIT (UN00)	_
ABS	-	NG	UNKWN	UNKWN	—	UNKIN	-	-	-	UNKWN	-		CAN COMMCIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKIN	_	_	_	_	_	CAN COMMCIRCUIT (UN00)	_



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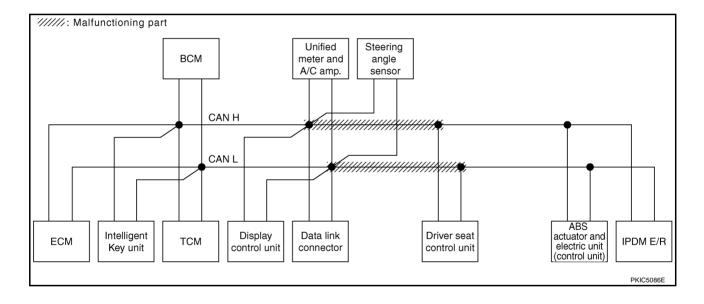
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Check harness between data link connector and driver seat control unit. Refer to <u>LAN-157</u>, "Inspection <u>Between Data Link Connector and Driver Seat Control Unit Circuit</u>".

						CAN DIA	AG SUPPOF	RT MNTR						
SELECT SYSTEM	screen		_				Re	ceive diagno	osis				SELF-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	ТСМ	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-		UNKWN	—	—	UNKWN	UNKWN	-	UNKWN	—		UNKVN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	—	-	UNKWN	-	UNKWN	—	—	-	CAN COMM CIRCUIT (U1000)	-
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	-	—	-	UNKWN	—		-	CAN COMMCIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN	UNKWN	UNKWN		—	_	UNKWN	_	-	UNKVN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	—	—	UNKWN	-	UNKWN	—	_	UNKVN	_	_
METER A/C AMP	No indication	I	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	Ι	—	UNKIN	-	CAN COMMCIRCUIT (UN00)	-
AUTO DRIVE POS.	No inclusion	NG	UNKWN	—	—	UNKWN	UNKWN	-	UNKWN	_	—	-	CAN COMMCIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	—		—	—	Ι	UNKOVN	-	-	CAN COMMCIRCUIT (U1000)	_
IPDM E/R	No inclusion	-	UNKWN	UNKWN	_	-	UNKWN	-	_	_	-	_	CAN COMMCIRCUIT (UN00)	_



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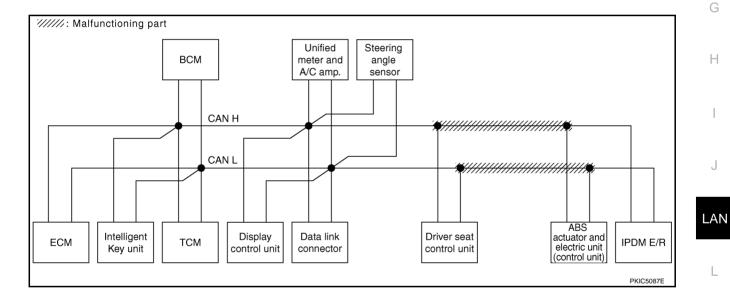
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#### Case 3

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u><u>162</u>, "Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit".

						CAN DIA	AG SUPPOF	RT MNTR						
SELECT SYSTEM	screen		-				Re	ceive diagno	sis				SELE-DIAC	BESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	ТСМ	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	-	UNKWN	UNKWN	_	UNKWN	_			CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN		-	UNKWN	_	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	I	-	-	—	UNKWN	_	UNKIN	—	CAN COMMCIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	—	_	UNKWN	_	_	UNKVN	CAN COMM CIRCUIT (U1000)	_
Display control unit	—	NG	UNKWN	UNKWN	1	-	UNKWN	—	UNKWN	—	_	UNKVN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	_	_	UNKIN	-	CAN COMMCIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	-	UNKWN	UNKWN	-	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	—	NG	UNKWN	UNKWN	_	UNKIN	—	—	_	UNKOVN	—	_	CAN COMMCIRCUIT (UN00)	_
IPDM E/R	No inclusion	-	UNKWN	UNKWN	_	-	UNKWN	—	_	-	_	-	CAN COMMCIRCUIT (U1000)	_

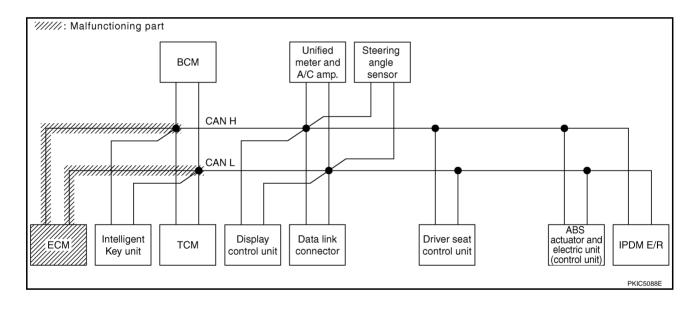


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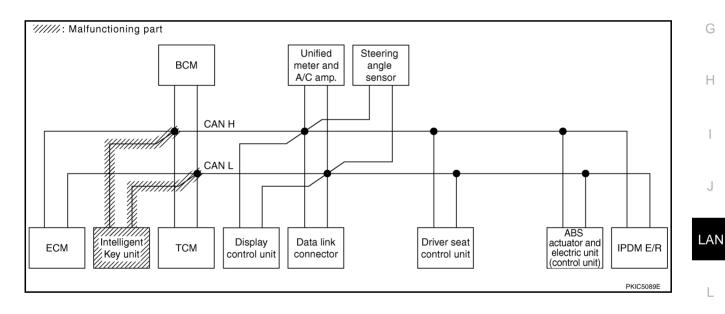
Check ECM circuit. Refer to LAN-163, "ECM Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	osis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	ТСМ	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKIN	-	_	UNKUN	UNKWN	-	UNKUN	-	UNKVN	UNK	CAN COMMCIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMMCIRCUIT (UN00)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN		-	-	Ι	UNKWN	—	UNKWN	-	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	—		UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	1	-	UNKWN	Ι	UNKWN	—	Ι	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	1	—	UNKWN	Ι	CAN COMMCIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	1	UNKWN	UNKWN	1	UNKWN	-	Ι	Ι	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	1	UNKWN	—	-	1	UNKWN	Ι	Ι	CAN COMMCIRCUIT (UN00)	_
IPDM E/R	No	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	_	CAN COMMCIRCUIT (UN00)	_



Check Intelligent Key unit circuit. Refer to LAN-164, "Intelligent Key Unit Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	osis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	I	UNKWN	-	_	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No increation	-	UNKWN	UNKWN	Ι	—	UNKWN	-	UNKWN	-	-		CAN COMMCIRCUIT (UN00)	-
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	UNKVN	—	—		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	I
Display control unit	-	NG	UNKWN	UNKWN	Ι	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	_	UNKWN	_	-	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	—	_	UNKWN	_	—	—	—	—	CAN COMM CIRCUIT (U1000)	_



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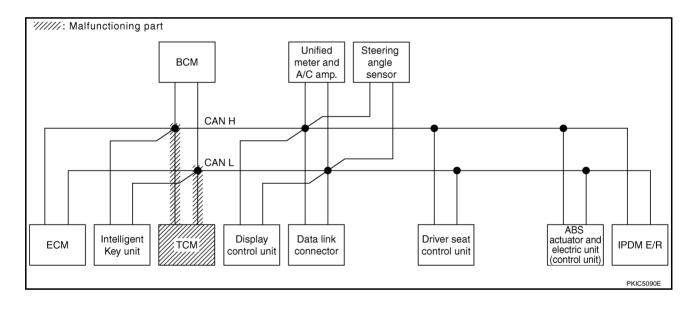
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Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	osis				SELF-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	ТСМ	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	-	UNKIN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No inclusion	NG	UNKWN	UNKWN		-	-	-	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	UNKWN			_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	
Display control unit	-	NG	UNKWN	UNKWN	-	—	UNKWN	_	UNKWN	_	—	UNKWN	_	-
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKIN	UNKWN	UNKWN	—	Ι	UNKWN	Ι	CAN COMMCIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-		UNKWN	—	UNKWN	Ι	Ι	Ι	CAN COMMCIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	-	UNKVN	_	-	—	UNKWN	Ι	Ι	CAN COMMCIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	_	-	_	-	CAN COMM CIRCUIT (U1000)	_



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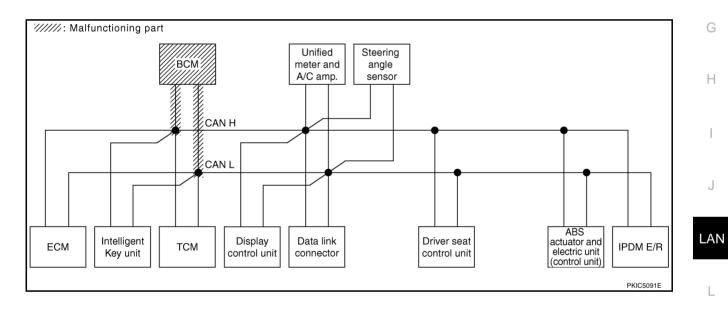
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#### Case 7

Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

						CAN DIA	G SUPPOF	T MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	sis				SELE-DIAG	BESULTS
OLLEOT OT OT OT	ooreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	ТСМ	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMMCIRCUIT (UN00)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
BCM	No inclusion	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	UNKWN	-	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	—
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	_	-	Ι	UNKWN	Ι	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	—	_	-	—	CAN COMMCIRCUIT (UN00)	-

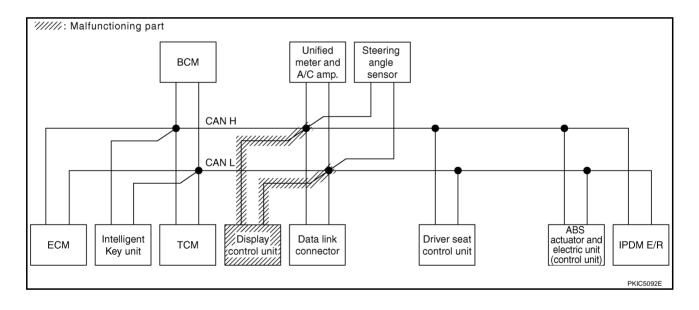


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Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	osis				SELF-DIAG	BESUITS
OLLEOT OT OTTEM	soleen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	_	-	UNKWN	UNKWN	—	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	—	UNKWN	-	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKIN	UNKWN	-	-	UNKWN	-	UNKIN	-	-	UNKOWN	-	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKIN	_	-	UNKWN	-	CAN COMMCIRCUIT (U100)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	—	-	UNKWN	UNKWN	—	UNKWN	—		Ι	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	_	UNKWN	-	_	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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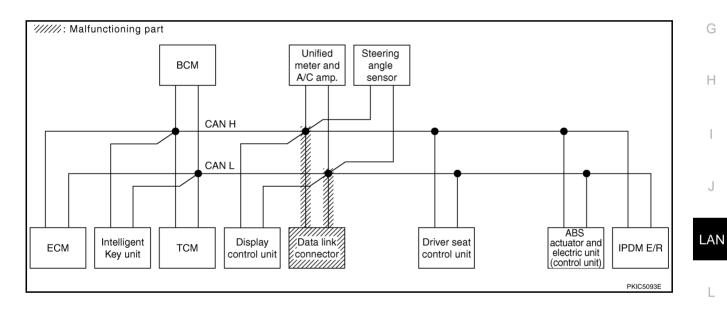
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#### Case 9

Check data link connector circuit. Refer to LAN-166, "Data Link Connector Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	sis				SELE-DIAG	RESULTS
OLLEOT OT OTTEM	ooreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	ТСМ	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No increation	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No inclusion	NG	UNKWN	UNKWN	_	-	—	Ι	UNKWN	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
BCM	No inclusion	NG	UNKWN	UNKWN	UNKWN	-	—		UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	UNKWN	-	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	UNKWN	_	UNKWN	_	-	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No inclusion	_	UNKWN	UNKWN	_	_	UNKWN	_	—	_	_	-	CAN COMM CIRCUIT (U1000)	_

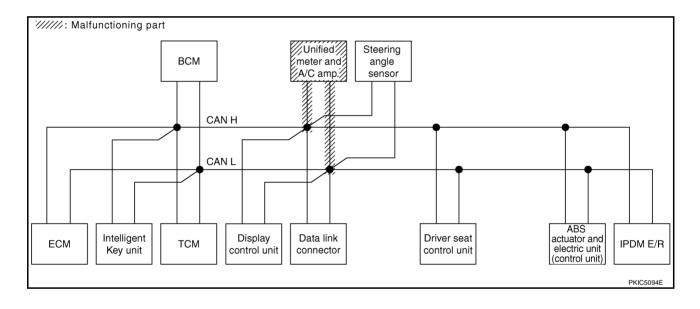


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Check unified meter and A/C amp. circuit. Refer to LAN-166, "Unified Meter and A/C Amp. Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	osis				SELF-DIAG	BESUITS
OLLEOT OTOTEL	soreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	_	UNKWN	UNKWN	-	UNKVN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	UNKVN	-	-	-	CAN COMMCIRCUIT (UN00)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	—	-	-	UNKVN		UNKWN	Ι	CAN COMMCIRCUIT (UN00)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—		UNKVN	Ι	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	1	—	UNKWN	Ι	UNKVN	Ι	Ι	UNKWN	_	—
METER A/C AMP	No indication	I	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	Ι	Ι	UNKWN	Ι	CAN COMMCIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	Ι		Ι	Ι	Ι	CAN COMMCIRCUIT (UN00)	—
ABS	-	NG	UNKWN	UNKWN	1	UNKWN	—	Ι	Ι	UNKWN	Ι	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No	-	UNKWN	UNKWN	_	_	UNKWN	_	_	_	-	-	CAN COMM CIRCUIT (U1000)	_



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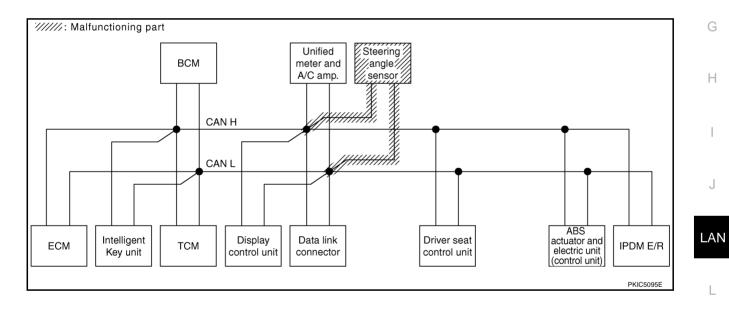
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### Case 11

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Check steering angle sensor circuit. Refer to LAN-167, "Steering Angle Sensor Circuit Inspection" .

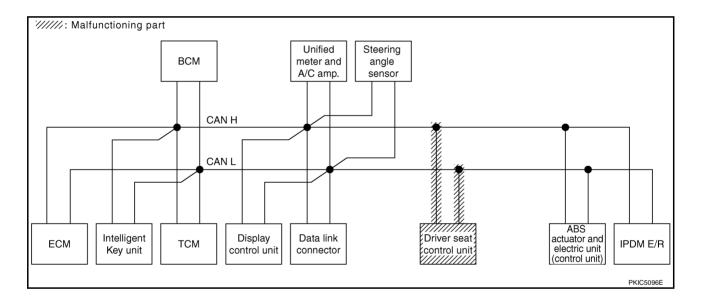
						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	oreen						Re	ceive diagno	osis				SELF-DIAG	RESULTS
SELECTOTOTEM		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	ТСМ	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI-DIAC	
ENGINE	-	_	UNKWN	_	-	UNKWN	UNKWN	-	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	_	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	—	-	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	UNKWN	-	—
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	-	UNKWN	UNKWN		UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	—	1	Ι	UNKVN	—	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	—	Ι	_	_	—	CAN COMM CIRCUIT (U1000)	_



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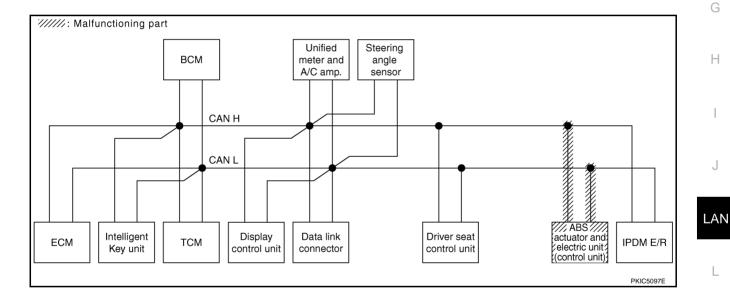
Check driver seat control unit circuit. Refer to LAN-167, "Driver Seat Control Unit Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	osis				SELF-DIAG	BESUITS
OLLEOT OTOTEM	Soreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	ТСМ	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKWN	_	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	1		UNKWN	—	UNKWN	-	Ι	Ι	CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN		-	—	—	UNKWN	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	—	—	UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	_	_	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	Ι	—	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No inclusion	NG	UNKWN	-	-	UNKWN	UNKWN	—	UNKWN	—		Ι	CAN COMMCIRCUIT (UN00)	—
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	—	—	-	UNKWN	Ι	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-168</u>, "ABS Actuator and Electric Unit (<u>Control Unit</u>) <u>Circuit Inspection</u>".

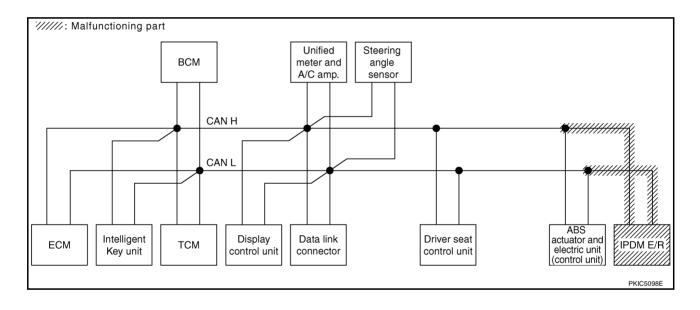
						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM sc	reen						Re	ceive diagno	osis				SELE-DIA	B RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKWN	_	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN		_	UNKWN	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	—	—	—	UNKWN	_	UNKVN	—	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	_	UNKWN	_	UNKWN	_	-	UNKWN	_	-
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN		-	UNKVN	-	CAN COMMCIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	V	UNKVN	UNKOWN	_	UNKIN	_	—	-	UNKON	—	—	CAN COMMCIRCUIT (UN00)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	-	—	UNKWN	—	—	-	_	-	CAN COMM CIRCUIT (U1000)	_



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#### Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	osis				SELE-DIAC	B RESULTS
SELECT CTOTEM	Sorceri	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	_	_	UNKWN	UNKWN	-	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UT 01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	—	—	UNKWN	-	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_	—	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	UNKWN	-	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No increation	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	-	CAN COMMCIRCUIT	_



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### Case 15

Check CAN communication circuit. Refer to LAN-169, "CAN Communication Circuit Inspection" .

					CAN DI	AG SUPPOF	RT MNTR						
SELECT SYSTEM screen		_				Re	ceive diagn	osis	_	_		SELE-DIA	G RESULTS
	Initia diagno	sis diagnosi		I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE —	-	UNKW	ı —	-	UNKON	UNKOVN	-		-	UNKUN	UNKWN	CAN COMMCIRCUIT (UN00)	CAN COMMCIRCUIT (U1001)
INTELLIGENT KEY	ion —	UNKWI		_	-	UNKWN	-	UNKWN	-	-	—	CAN COMMCIRCUIT (UN00)	-
TRANSMISSION No indua	ion	UNKW		-	-	-	-	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (UN00)	-
BCM No	ion NG	UNKW		UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit —	NG	UNKW		-	-	UNKVN	-	UNKOVN	-	-	UNKIN	_	-
METER A/C AMP	ion –	UNKW		-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	CAN COMMCIRCUIT (UN00)	-
AUTO DRIVE POS.	ion NG	UNKW	u —	_	UNKWN	UNKWN	-	UNKWN	-	-	_	CAN COMMCIRCUIT (U100)	-
ABS —	V	UNKW	N UNKWN	_	UNKVIN	-	-	-	UNKIN	-	_	CAN COMMCIRCUIT (UN00)	-
IPDM E/R		UNKWI	UNKWN	_	_	UNKWN	_	_	_	_	_	CAN COMMCIRCUIT (UN00)	_

#### Case 16

G Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection".

						CAN DIA	AG SUPPOR	RT MNTR						
SELECT SYSTEM	screen						Re	ceive diagno	osis				SELE-DIAG	RESULTS
OLLEOT OT OT OT	Soreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI DIK	
ENGINE	-	-	UNKWN	_	_	UNKIN	UNKWN	-	UNKWN	—	UNKIN	UNKWN	CAN COMMCIRCUIT (UN00)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	—	-	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	-	-	-	UNKWN	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	-	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	—	UNKWN	-	UNKWN	_	-	UNKWN	_	_
METER A/C AMP	No indication	Ι	UNKWN	UNKWN	—	UNKOVN	UNKWN	UNKWN	—	—	UNKVN	Ι	CAN COMMCIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	—	UNKON	UNKWN	-	UNKWN	—	-	Ι	CAN COMMCIRCUIT (UN00)	_
ABS	-	NG	UNKWN	UNKWN	—	UNKWN	-	-	—	UNKWN	-	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	_	_	-	-	CAN COMM CIRCUIT (U1000)	_

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-170, "IPDM E/R Ignition Relay</u> <u>Circuit Inspection"</u>.

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen		_				Re	ceive diagno	osis				SELE-DIAC	RESULTS
OLLEGI GIGTEM	Solocit	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	—	UNKWN	—	UNKWN	—	-		CAN COMM CIRCUIT (U1000)	—
TRANSMISSION	No indication	NG	UNKWN	-	-	-	—	—	-	—	UNKWN	-	CAN COMMCIRCUIT (UN00)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	—	—	UNKWN	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	UNKWN	-	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	_	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	—	_	UNKWN	—	—	—	_	-	Ι	CAN COMMCIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_

	[CAN]	
CAN SYSTEM (TYPE 4)	PFP:23710	
Component Parts and Harness Connector Location	NKS002U8	А
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	NKS002U9	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	NKS002UA	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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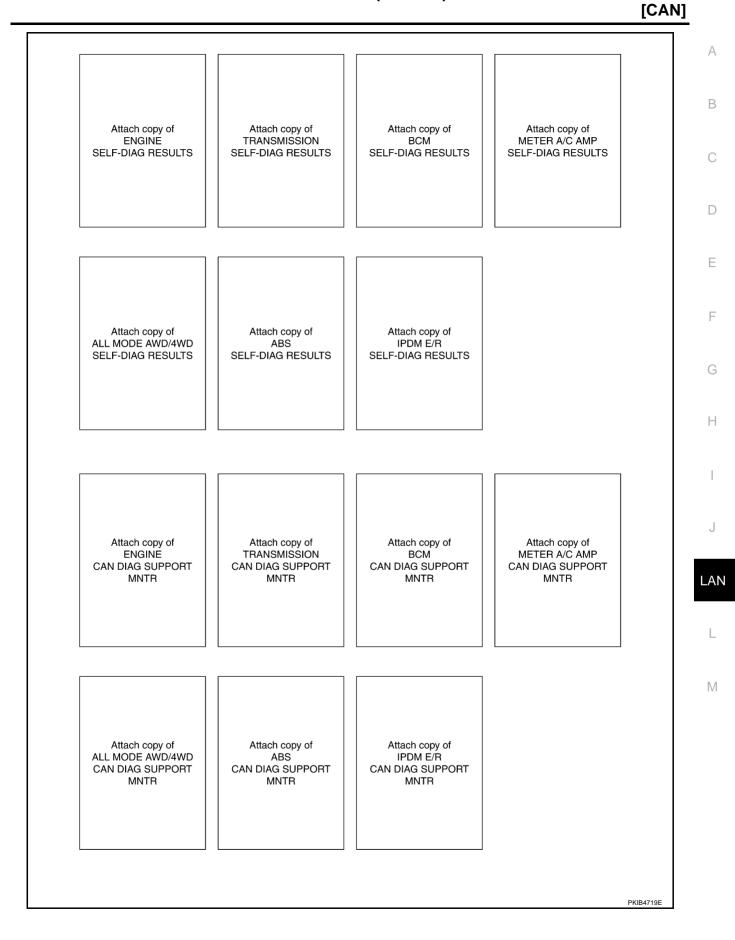
## Check Sheet

NKS002UB

#### NOTE:

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

No ndication 	Initial diagnosiss — NG NG NG NG NG —	Transmit diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	TCM UNKWN — — UNKWN — —	BCM /SEC UNKWN UNKWN UNKWN UNKWN	DISPLAY	diagnosis METER /M&A UNKWN UNKWN UNKWN UNKWN UNKWN  UNKWN 	AWD/4WD UNKWN  UNKWN 	VDC/TCS /ABS UNKWN  UNKWN 	IPDM E/R UNKWN UNKWN UNKWN UNKWN	SELF-DIA( (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) — CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)	(U1001)    
No ndication No ndication 	diagnosis NG NG NG NG NG NG NG NG NG	diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN - UNKWN	/SEC UNKWN — UNKWN UNKWN — —	— — — UNKWN —	/M&A UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN — — UNKWN	/ABS — UNKWN — —	E/R UNKWN UNKWN UNKWN	U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)  CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	(U1001)   
ndication No ndication No ndication — — No	NG NG - NG NG	UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN		 UNKWN UNKWN 	— — UNKWN —	UNKWN UNKWN UNKWN UNKWN	— — — UNKWN	_	- UNKWN UNKWN -	U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)  CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	(U1001)   
ndication No ndication No ndication — — No	NG NG - NG NG	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	UNKWN — —	UNKWN — —	— — UNKWN —	UNKWN UNKWN — UNKWN —	— — UNKWN	_	- UNKWN UNKWN -	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) — CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	- - - -
No ndication No ndication — — No	NG NG - NG NG	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	UNKWN — —	UNKWN — —	— UNKWN — —	UNKWN UNKWN — UNKWN —	— UNKWN	_	UNKWN —	CAN COMM CIRCUIT (U1000) — CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	-
- No ndication No	NG — NG NG	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN — —	UNKWN — —	UNKWN — —	UNKWN — UNKWN —	— UNKWN		UNKWN —	— CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
ndication — — No	— NG NG	UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN — —	UNKWN — —	UNKWN — —	— UNKWN —		UNKWN —	_	(U1000) CAN COMM CIRCUIT	
— — No	NG NG	UNKWN UNKWN	UNKWN UNKWN	_	_ _	_ _	-		_		CAN COMM CIRCUIT	-
— No	NG	UNKWN	UNKWN	-	UNKWN	_	-	_		_	(111000)	
				_	UNKWN	_	-	_			CAN COMM CIRCUIT	
		UNKWN	UNKWN	_	UNKWN	_	-		_		(U1000) CAN COMM CIRCUIT	
								-	-	-	(U1000)	-
					1							
			heck sh	eet table	e Displa	y (	Confirma	tion/Adj			Check shee	et table. t table Display ER/M&A
				v								_
				BCM							IPD	M E/R
				ECM								_
				-		(	CAN CIF	RC 9				_
			C	AN DIAC	disp	olay con	trol unit	Check	Sheet			
			ontrol unit Translation S	ontrol unit Translation Sheet: R tment Display Check sh Initia Trans	ontrol unit Translation Sheet: Rewrite t tment Display Check sheet table Initial diagne Transmit diag BCM ECM —	SELECT SYSTEM Ontrol unit Translation Sheet: Rewrite the follow tment Display Check sheet table Displa Initial diagnosis Transmit diagnosis BCM ECM Check Ch	SELECT SYSTEM Ontrol unit Translation Sheet: Rewrite the following nar tment Display Check sheet table Display Initial diagnosis I I I I I I I I I I I I I I I I I I	SELECT SYSTEM ontrol unit Translation Sheet: Rewrite the following names, and tment Display Check sheet table Display Confirma Initial diagnosis CAN CIF Transmit diagnosis CAN CIF BCM CAN CIF ECM CAN CIF CAN CIF	SELECT SYSTEM SELE SELECT SYSTEM SELE SE	SELECT SYSTEM SELECT SYSTEM SELECT SYS SELECT SYS	SELECT SYSTEM       SELECT SYSTEM         ontrol unit Translation Sheet: Rewrite the following names, and put a check mark on the tment Display       Check sheet table Display         Confirmation/Adjustment Display       Initial diagnosis         CAN CIRC 5       Transmit diagnosis         CAN CIRC 6       BCM         CAN CIRC 7       ECM         CAN CIRC 8       —         CAN CIRC 9       —	SELECT SYSTEM       SELECT SYSTEM         ontrol unit Translation Sheet: Rewrite the following names, and put a check mark on the above check she         tment Display       Check sheet table Display         Confirmation/Adjustment Display       Check sheet         Initial diagnosis       CAN CIRC 5         Transmit diagnosis       CAN CIRC 6         BCM       CAN CIRC 7         ECM       CAN CIRC 8         -       CAN CIRC 9



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

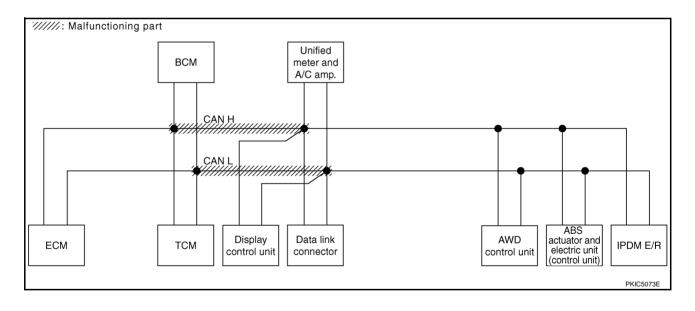
#### NOTE:

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

#### Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-157</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

					CAN	DIAG SU	IPPORT N	INTR					
SELECT SYSTEM	screen	1	T				Receive	diagnosis				SELF-DIAG	BESUITS
OLLEOT OT OT CHEMI	5010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	_	UNKWN	UNKWN	-	UNKIN	UNKWN	-	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM/CIRCUIT (UN01)
TRANSMISSION	Ng indication	NG	UNKWN	UNKWN	_	-	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U 100)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN		-		-	UNKWN	-	—	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN			UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	—	-	CAN COMM CIRCUIT (U 100)	_
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	-	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-		-	-	-	-	-	CAN COMM CIRCUIT (UN00)	_

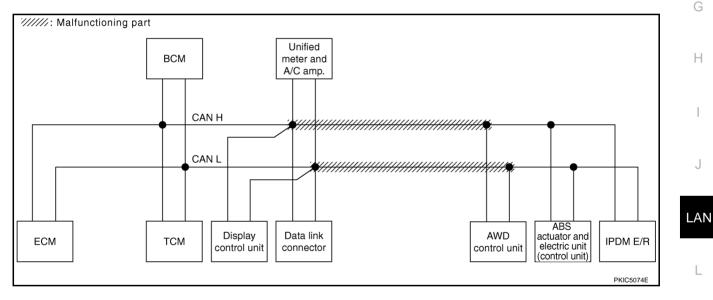


## [CAN]

#### Case 2

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

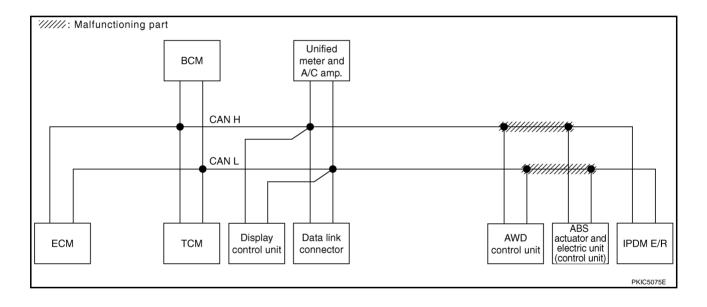
					CAN	I DIAG SU	PPORT N	1NTR					
SELECT SYSTEM s	creen						Receive	diagnosis				SELF-DIAG	BESULTS
	orcen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	_	CAN COMMCIRCUIT (U 100)	_
всм	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN	_	-
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	—	CAN COMMCIRCUIT (U 1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	-	-	-	-	-	-	-	-	CAN COMMCIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	-	CAN COMMCIRCUIT (U 100)	-
IPDM E/R	N indivation	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMINCIRCUIT (UN00)	-



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Check harness between AWD control unit and ABS actuator and electric unit (control unit). Refer to <u>LAN-163</u>, <u>"Inspection Between AWD Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit"</u>.

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		<b>-</b>				Receive	diagnosis				SELF-DIAG	RESULTS
	0010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
INGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
RANSMISSION	No indication	NG	UNKWN	UNKWN	—	-	-	UNKWN	-	UNKWN	_	CAN COMMCIRCUIT (U 100)	_
3CM	No indication	NG	UNKWN	UNKWN	—		1	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	-	-	UNKWN		_
IETER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	—	CAN COMMCIRCUIT (U 100)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	—	-	-	UNKWN	-	—	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	Ι	CAN COMM CIRCUIT (U 100)	_
PDM E/R	N ind ation	_	UNKWN	UNKWN	—	UNKWN	-	_	-	_	_	CAN COMINCIRCUIT (UN00)	_



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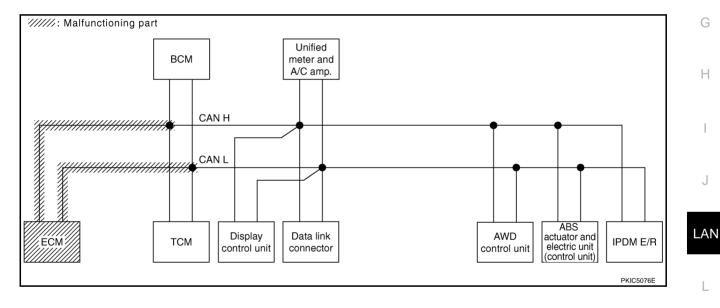
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#### Case 4

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

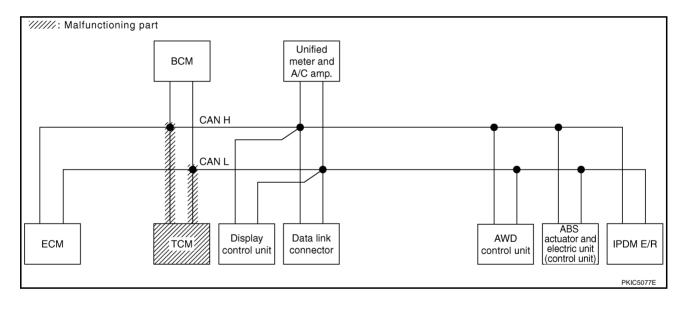
					CAN	DIAG SU	PPORT M	NTR					
SELECT SYSTEM	screen		<b>-</b>				Receive	diagnosis				SELF-DIAG	BESHITS
SELECT STOTEM	5016611	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	-	UNKIN	UNKIN	_	UNKWN		CAN COMM/CIRCUIT (U1/01)
TRANSMISSION	No indication	NG	UNKWN	UNIWN	—	—	-	UNKWN	—	UNKWN	_	CAN COMINCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	_		1	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	-	-	UNKWN	_	—
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	-	N — — — CAN COMM/CIRCUIT — (U 100) —	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	—	-	-	UNKWN	-	-	-	CAN COMMCIRCUIT (U 100)	—
ABS	-	NG	UNKWN	UNKWN	_	-	-	_	-	-	-	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	UNKWN	-	_	-	-	-	CAN COMINCIRCUIT (UN00)	_



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Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELF-DIAG	BESUITS
SELECT STOTEM	5010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	_	UNKWN	_	UNIWN	UNKWN	_	UNKWN	UNKWN	_	UNKWN	(U NOU)	CAN COMM CIRC (UN01)
TRANSMISSION	Inditation	NG	UNKWN	UNKWN	—	-	-	UNKWN		UNKWN	-	CAN COMM CIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN	UNKWN	—	-	-	UNKWN	I	-	UNKWN	CAN COMM CIRCUIT (U1000)	I
Display control unit	_	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	Ι	-	UNKWN	_	Ι
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN00)	
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	—	—	-	UNKWN		_	-	CAN COMM CIRCUIT (U1000)	-
ABS	—	NG	UNKWN	UNKWN	—	—	-	-		—	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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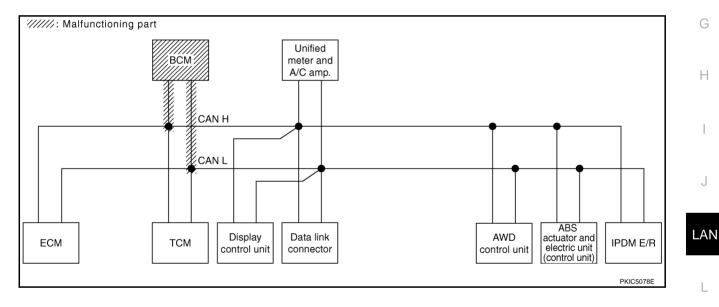
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#### Case 6

Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

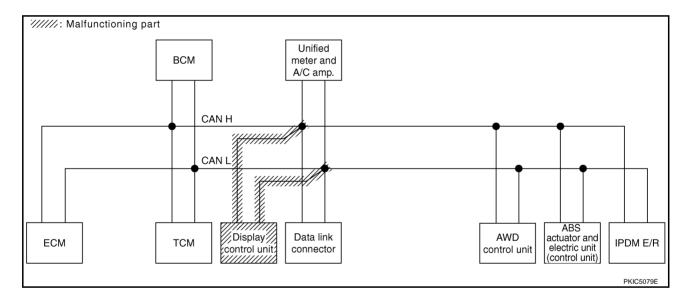
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecreen		-				Receive	diagnosis				SELF-DIAG	
SELECTOTOTEM	5010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THESOEIS
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	_	-	UNKWN	_	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
BCM	No inditiation	NG	UNKWN	UNKWN	—	—	—	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	-	-	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U 100)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	—	_	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	—	-	-	—	-	—	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	-	-	-	-	Ι	CAN COMMCIRCUIT (UN00)	—



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Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen		<b>-</b>				Receive	diagnosis				SELF-DIAG	BESUITS
SELECT STOTEM	3016611	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		INESOEIS
ENGINE	—	-	UNKWN	_	UNKWN	UNKWN	_	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRC (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	-	UNKWN	1	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	—	-	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN		-	UNKWN	_	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN00)	ļ
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	—	-	-	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	-
ABS	—	NG	UNKWN	UNKWN	—	—	-	-	1	-	_	CAN COMM CIRCUIT (U1000)	ļ
IPDM E/R	No indication	-	UNKWN	UNKWN	—	UNKWN	-	Ι	Ι	-	-	CAN COMM CIRCUIT (U1000)	-



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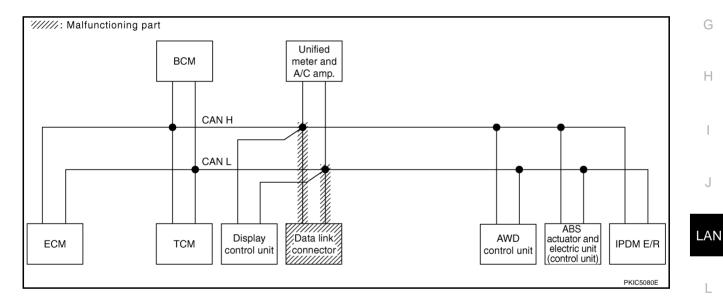
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#### Case 8

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Check data link connector circuit. Refer to LAN-166, "Data Link Connector Circuit Inspection" .

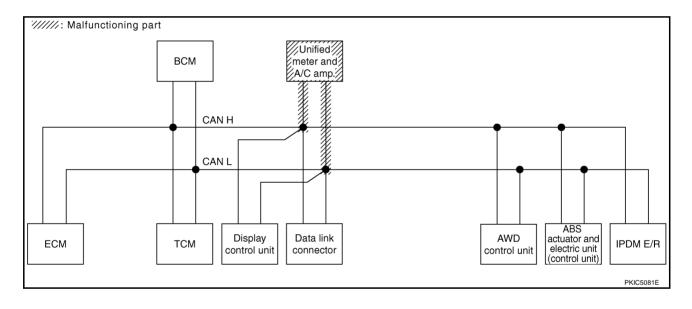
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecreen		-				Receive	diagnosis					RESULTS
OLLEON ON OTOTEM	5010011	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	-	_	UNKWN	—	UNKWN	UNKWN	-	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	Ng inditation	NG	UNKWN	UNKWN	_	_	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	Ng inditation	NG	UNKWN	UNKWN	-	—	-	UNKWN	I	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	Ι	UNKWN	-	UNKWN	Ι	-	UNKWN	_	_
METER A/C AMP	Ng inditation	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	1	NG	UNKWN	UNKWN	1	—	-	UNKWN	I	—	Ι	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	_	_	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Ng inditation	_	UNKWN	UNKWN	-	UNKWN	-	_	-	_	-	CAN COMM CIRCUIT (U1000)	_



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Check unified meter and A/C amp. circuit. Refer to LAN-166, "Unified Meter and A/C Amp. Circuit Inspection" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen		-				Receive	diagnosis				SELF-DIAG	
SELECT STOTEM	5010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	—	-	UNKWN	_	UNKWN	UNKWN	I	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	-		-	UNKWN	-	CAN COMMCIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	—		1		I	—	UNKWN	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	—	UNKWN	-		-	-	UNKWN		-
METER A/C AMP	Ng inditation	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U 100)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	—	-	-		-	-	-	CAN COMMCIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	—	-	-	-	I	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	UNKWN	-	-	I	_	-	CAN COMM CIRCUIT (U1000)	_

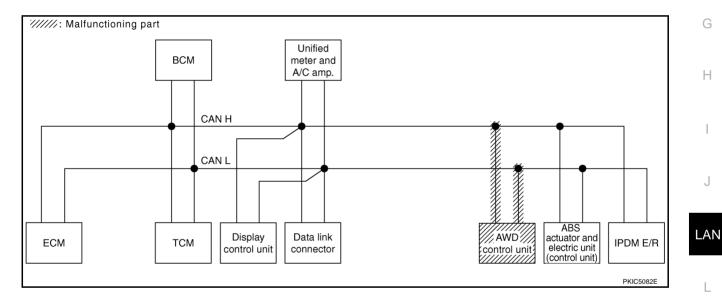




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Check AWD control unit circuit. Refer to LAN-168, "AWD Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	oroop		_				Receive	diagnosis				SELF-DIAG	
SELECTOTOTEM	5016611	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODERS
ENGINE	—	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	—	—	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN		_
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U 100)	-
ALL MODE AWD/4WD	1	NG	UNKWN	-	—	—	-	-	—	-	-	CAN COMM CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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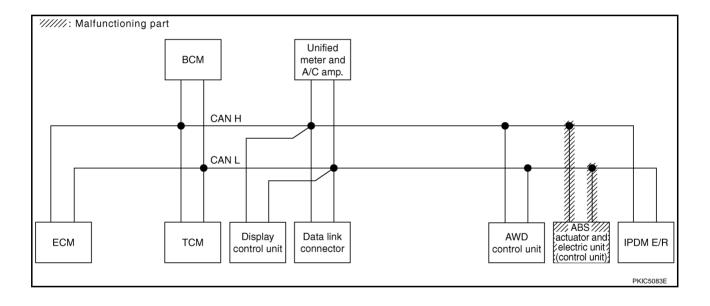
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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-168</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen		+				Receive	diagnosis				SELF-DIAG	BESHITS
OLLEGT GTOTEM	5010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	-	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	-	-	UNKWN			-	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	—		-	UNKWN	I	-	UNKWN	CAN COMM CIRCUIT (U1000)	Ι
Display control unit	-	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	Ι	-	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
ALL MODE AWD/4WD	1	NG	UNKWN	UNKWN	—	1	-	UNKWN	I	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	V		UNKWN	-	-	-	-	Ι	-	-	CAN COMMCIRCUIT (U 100)	-
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	_	-	1	-	-	CAN COMM CIRCUIT (U1000)	_



# [CAN]

#### А Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" . В CAN DIAG SUPPORT MNTR Receive diagnosis SELECT SYSTEM screen SELF-DIAG RESULTS Initial Transmit BCM METER VDC/TCS IPDM diagnosis diagnosis ECM тсм DISPLAY AWD/4WD /SEC /M&A /ABS F/R CAN COMM CIRCUIT CAN COMM/CIRCUIT (U1000) (U1001) UNKWN ENGINE UNKWN UNKWN UNKWN UNKWN UNKWN \_ \_ \_ \_ (U1000) CAN COMM CIRCUI No TRANSMISSION NG UNKWN UNKWN \_ \_ \_ UNKWN \_ UNKWN \_ \_ (U1000) indication No CAN COMM CIRCUI (U1000) всм UNKWN UNKWN NG UNKWN \_ \_ \_ \_ \_ \_ indicatio D UNIWN UNKWN UNKWN \_ UNKWN \_ UNKWN \_ \_ \_ Display control unit NG CAN COMM CIRCUI No METER A/C AMP \_ UNKWN UNKWN UNKWN UNKWN UNKWN \_ UNKWN UNKWN \_ \_ (U1000) CAN COMM CIRCUIT indicatio ALL MODE AWD/4WD \_ NG UNKWN UNKWN \_ \_ UNKWN \_ \_\_\_\_ \_ (U1000) CAN COMM CIRCUI \_ F ABS NG UNKWN UNKWN \_ \_ \_ \_ \_ \_ \_ \_ \_ (U1000) COMMCIRCUI (U1000) Matior IPDM E/R UNKWN UNKWN \_ UNKWN \_ \_ \_ \_ \_ \_ \_ F PKIC5396E //////: Malfunctioning part Unified BCM meter and A/C amp. Н <del>қинниц</del> CAN H CAN L J ABS LAN Display Data link AWD actuator and electric unit ECM тсм IPDM E/R control unit connector control unit (control unit) PKIC5084E L

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Case 12

# Case 13

Check CAN communication circuit. Refer to LAN-169, "CAN Communication Circuit Inspection" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen	Initial	Transmit				Receive	diagnosis				SELE-DIAG	RESULTS
	di NE — SMISSIONI N			ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TILOULIO
ENGINE	_	-	UNKWN	_	UNKWN		_	UNKWN	UNKWN	_	UNKWN	(U <b>10</b> 00)	CAN COMMCIRCU (UN01)
TRANSMISSION	indivation	NG	UNKWN	UNKWN	-	_	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U N00)	—
BCM	N ind ation	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	UNKWN		_
METER A/C AMP	N indivation	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	Ι	CAN COMM/CIRCUIT (U N00)	—
ALL MODE AWD/4WD	_	NG	UNIWN	_	_	_	-	—	-	_	_	CAN COMM CIRCUIT (U 1000)	-
ABS	_	V	UNKWN	UNKWN	_	_	-	—	-	_	_	CAN COMM CIRCUIT (U N00)	_
IPDM E/R	indivation	_	UNKWN	UNKWN	_	UNKWN	_	_	-	_	_	CAN COMMCIRCUIT	_

## Case 14

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-170, "IPDM E/R Ignition Relay Circuit Inspection".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecreen		-				Receive	diagnosis					RESULTS
SELECT STOTEM	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	-	_	UNKWN	-	UNKWN	UNKWN	_	UNKWN		_	UNKWN	CAN COMMCIRCUIT (U1000)	CAN COMMCIRCL (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	-	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	-	_	UNKWN	—	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNION	UNKWN	UNKWN	—		UNKWN	—	CAN COMM CIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	_	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	-	-	-	_	-	CAN COMM CIRCUIT (U1000)	_

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-170</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

					CAN	DIAG SU	IPPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	-	_	_	-	-	_	UNKWN	-	CAN COMMCIRCUIT (U 100)	—
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	—	-	UNKWN		_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	1	NG	UNKWN	-	-	—	-	-	_	-	-	CAN COMMCIRCUIT (UN00)	_
ABS	-	NG	UNKWN	-	-	-	-	-	-	-	-	CAN COMMCIRCUIT (UN00)	—
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
												•	
													PKIC5399E

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	[CAN]
CAN SYSTEM (TYPE 5)	PFP:23710
Component Parts and Harness Connector Location	NKS002UC
Refer to LAN-25, "Component Parts and Harness Connector Location".	
Schematic	NKS002UD
Refer to LAN-26, "Schematic".	
Wiring Diagram — CAN —	NKS002UE
Refer to LAN-27, "Wiring Diagram — CAN —".	

# **Check Sheet**

# NOTE:

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

					C	AN DIAG	SUPPOR							
SELECT SYSTEM s		Initial	Transmit				DOM	ive diagr			VDOTOO	IPDM	SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	E/R		
NGINE	-	_	UNKWN	-	—	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
	No indication	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
CM .	No	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
play control unit	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	_	UNKWN		_
TER A/C AMP	No	_	UNKWN	UNKWN	_	UNKWN	UNKWN	JNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
	indication No	NG	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT	_
L MODE AWD/4WD	indication —	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	(U1000) CAN COMM CIRCUIT	_
S	_	NG	UNKWN		_	_	_	_	_	_	_	_	(U1000) CAN COMM CIRCUIT	_
	No	_	UNKWN		_	_	UNKWN	_	_	_		_	(U1000) CAN COMM CIRCUIT	_
	indication		UIVIX VVIV	UNIXVIN	_		STARVAN	_	_				(U1000)	
			S	Attach ELECT	copy o SYSTI						ch copy CT SYS			
													e above check she	
	intmont	Display	/	Check : Ini	sheet ta tial dia		spiay	_	Itirmatic		stment	Display	1	t table Display R/M&A
Confirmation/Adju	Journerin					-	5	-						
Confirmation/Adju	JSIMEIII				nsmit di	aynosi		1						
Confirmation/Adju CAN COMM CAN CIRC 1					nsmit di BCI	-		CAN	N CIRC	7			IPDI	M E/R
Display Confirmation/Adju CAN COMM CAN CIRC 1 CAN CIRC 2 CAN CIRC 3						N		-					IPDI	M E/R

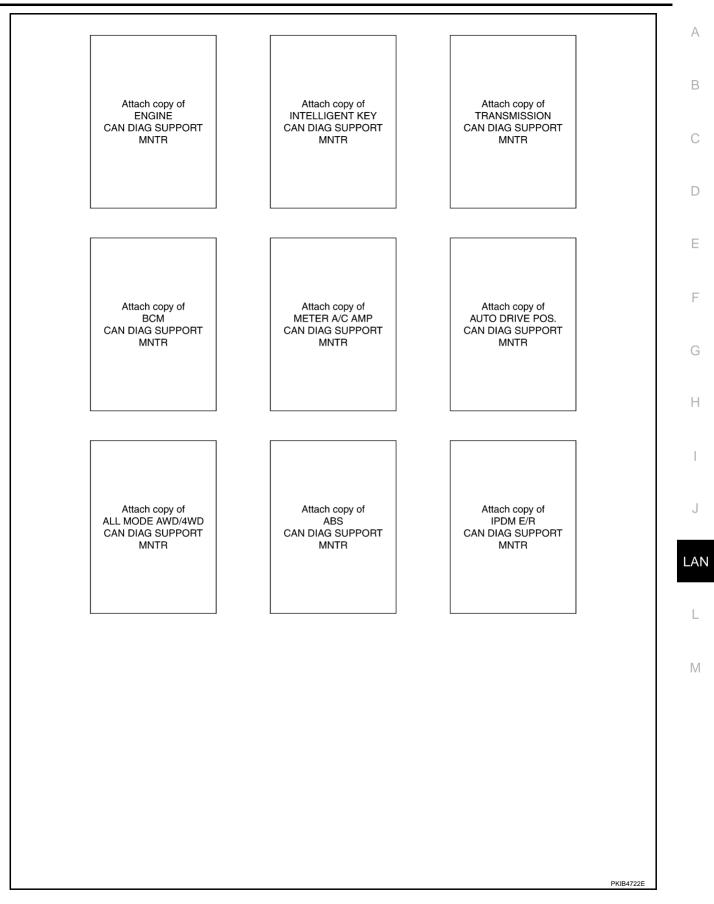
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Attach copy of Attach copy of Attach copy of ENGINÉ INTELLIGENT KEY TRANSMISSION SELF-DIAG RESULTS SELF-DIAG RESULTS SELF-DIAG RESULTS Attach copy of Attach copy of Attach copy of AUTO DRIVE POS. METER A/C AMP всм SELF-DIAG RESULTS SELF-DIAG RESULTS SELF-DIAG RESULTS Attach copy of Attach copy of Attach copy of ALL MODE AWD/4WD IPDM E/R ABS SELF-DIAG RESULTS SELF-DIAG RESULTS SELF-DIAG RESULTS PKIB4721E

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# **CHECK SHEET RESULTS (EXAMPLE)**

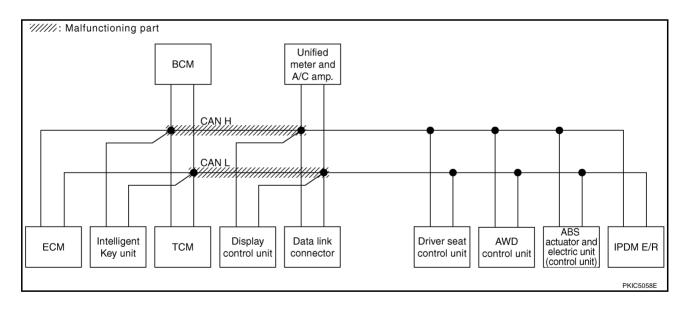
#### NOTE:

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

## Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-157</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

					C	AN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	soroop						Rec	eive diagr	nosis				SELF-DIAG	
SELECTOTOTEM	3010011	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD		IPDM E/R		
ENGINE	_	-	UNKWN	-	-	UNKWN	UNKWN	_	UNIWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
INTELLIGENT KEY	No inditation	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	-	CAN COMMCIRCUIT (UN00)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	Ι	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	_	-	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN		Ι	-	UNKWN	-	UNKWN	-	-	UNKWN	_	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNIWN	UNKWN	UNKWN	—	UNKWN	UNKWN	-	CAN COMMCIRCUIT (U 100)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	_		UNKWN	—	UNKWN	-	-	-	CAN COMMCIRCUIT (U 100)	_
ALL MODE AWD/4WD	-	NG	UNKWN		Ι	_	-	-	UNKWN	-	-	Ι	CAN COMMCIRCUIT (U 100)	-
ABS	_	NG	UNKWN		-	-	_	-	-	-	-	-	CAN COMMCIRCUIT (U 100)	-
IPDM E/R	No indication	_	UNKWN		-	_	UNIWN	_	_	_	_	_	CAN COMMCIRCUIT	_

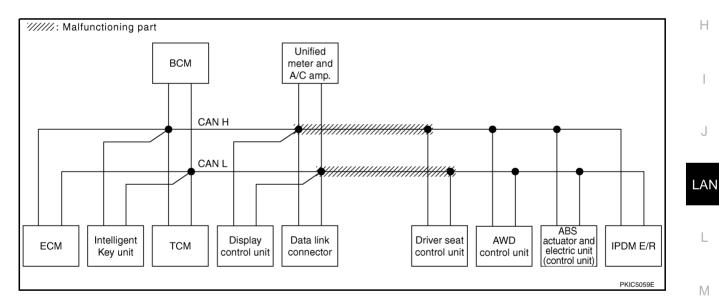


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## Case 2

Check harness between data link connector and driver seat control unit. Refer to <u>LAN-157</u>, "Inspection <u>A</u> <u>Between Data Link Connector and Driver Seat Control Unit Circuit"</u>.

					C	CAN DIAC	SUPPC	ORT MNT	R					
SELECT SYSTEM	screen		<b>-</b>				Rec	eive diag	nosis				SELE-DIAG	RESULTS
OLLEON ON ON EN		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS			
ENGINE	-	-	UNKWN	_	-	UNKWN	UNKWN	_	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	_	-	—	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	—	—	-	UNKWN	_	UNKWN	—	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	_	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	-	-	UNKWN	_	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-		UNKWN	_	CAN COMM CIRCUIT (U 000)	_
AUTO DRIVE POS.	No ind ation	NG	UNKWN	—	-	UNKWN	UNKWN	-	UNKWN	-	-	—	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	-	-	-	-	-	-	-	-	-	CAN COMM CIRCUIT (U 1000)	_
ABS	-	NG	UNKWN	UNIWN	-	-	_	-	-	-	-	-	CAN COMM CIRCUIT (U 1000)	—
IPDM E/R	No ind Nation	_	UNKWN	UNKWN	-	_	UNKWN	_	_	-	_	_	CAN COMM CIRCUIT	_

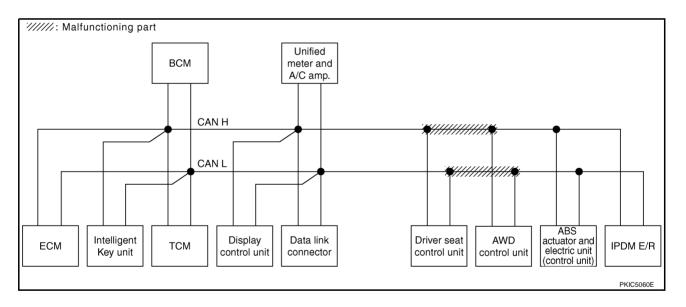


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Check harness between driver seat control unit and AWD control unit. Refer to <u>LAN-161</u>, "Inspection Between <u>Driver Seat Control Unit and AWD Control Unit Circuit</u>".

					С	AN DIAG	SUPPO	RT MNT	7					
SELECT SYSTEM	screen		- ··				Rece	eive diagr	nosis				SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	ABS I	IPDM E/R		
ENGINE	-	_	UNKWN	-	_	UNKWN	UNKWN	_	UNKWN	UNKWN	—	UNKVN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
NTELLIGENT KEY	No indication	—	UNKWN	UNKWN	-	1	UNKWN	—	UNKWN	_	-	—	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKIN	_	CAN COMICIRCUIT (U 1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	—	UNKWN		I	UNKVN	CAN COMM CIRCUIT (U1000)	_
Display control unit	1	NG	UNKWN	UNKWN	Ι	-	UNKWN	_	UNKWN		Ι	UNK	—	_
METER A/C AMP	No indication	—	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	—	UNKWN		_	CAN COMM CIRCUIT (U 000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	—	_	UNKWN	UNKWN	_	UNKWN	-	-	—	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	I	NG	UNKWN	-	I	-	-	-	_	-	Ι	-	CAN COMM CIRCUIT (U 100)	_
ABS	-	NG	UNKWN	UNKWN	-	_	_	-	_	-	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indNation	_	UNKWN	UNKWN	-	_	UNKWN	_	_	_	_	_	CAN COMICIRCUIT	_

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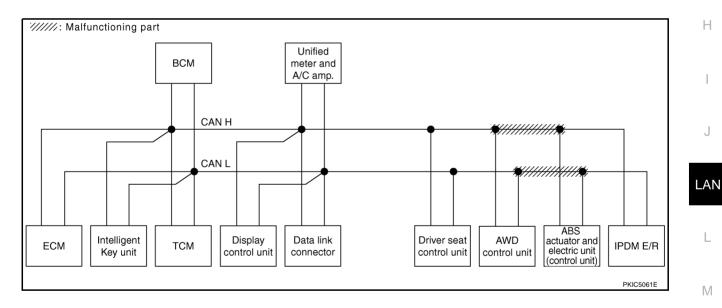
# [CAN]

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#### Case 4

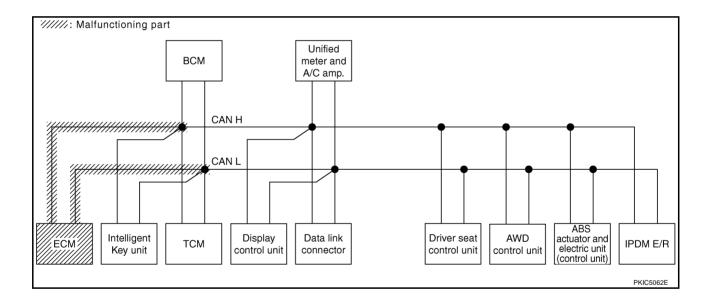
Check harness between AWD control unit and ABS actuator and electric unit (control unit). Refer to <u>LAN-163</u>, <u>"Inspection Between AWD Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit"</u>.

					C	AN DIAC	SUPPC	DRT MNT	R					
SELECT SYSTEM	screen		<b>-</b> -				Rec	eive diag	nosis				SELF-DIAG	BESUITS
OLLEOT OTOTEM		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	_	-	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
NTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	_	UNKWN	_	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	—	-	UNKWN	_	UNIONN	-	CAN COMMCIRCUIT (UN00)	_
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN		—	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	_	UNKWN	-	UNKWN	-	-	UNKWN	_	—
METER A/C AMP	No indication	—	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	_	CAN COMMCIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	—	-	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	—	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNIOWN	-	_	-	-	-	-	-	-	CAN COMMCIRCUIT (UN00)	_
PDM E/R	No inditation	-	UNKWN	UNKWN	-	_	UNKWN	_	-	-	-	-	CAN COMM CIRCUIT (UN00)	—



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

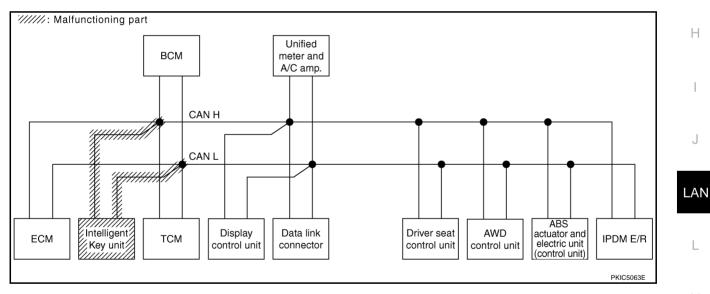
					C	CAN DIAC	SUPPO	RT MNT	R					
SELECT SYSTEM	screen	la Mal	Transit				Rece	eive diagi	nosis				SELF-DIAG	BESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNIWN	-	-	UNKWN	UNKWN	_	UNKWN		_		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U 001)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	—	UNKWN	_	UNKWN	_	—	_	CAN COMMCIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	I	—	_	_	UNKWN	Ι	UNKWN	Ι	CAN COMMCIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN		UNKWN	_	_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN		—	UNKWN	_	UNKWN	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN		I	UNKWN	UNKWN	UNKWN	Ι	UNKWN	UNKWN	Ι	CAN COMMCIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	I	UNKWN	UNKWN	_	UNKWN	Ι	_	Ι	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	-	—	_	_	UNKWN	-	_	_	CAN COMMCIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNAWN	-	-	-	_	Ι	Ι	-	Ι	CAN COMMCIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNIWN	-	_	UNKWN	_	Ι	Ι	_	Ι	CAN COMMCIRCUIT (U1000)	-



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Check Intelligent Key unit circuit. Refer to LAN-164, "Intelligent Key Unit Circuit Inspection" .

					C	CAN DIAC	G SUPPC	ORT MNT	R					
SELECT SYSTEM	screen		<b>-</b>				Rec	eive diagr	nosis				SELE-DIA(	G RESULTS
OLLEON OF OTOTEM	obreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIA	
ENGINE	-	-	UNKWN	_	-	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No ind Nation	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	_	CAN COMM CIRCUIT (U 1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_	-	-	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	-	-	UNKWN	-	_
METER A/C AMP	No indication	—	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	—	-	UNKWN	UNKWN	-	UNKWN	-	-	Ι	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	-	—	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	-	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	_	_	-	-	_	CAN COMM CIRCUIT (U1000)	_



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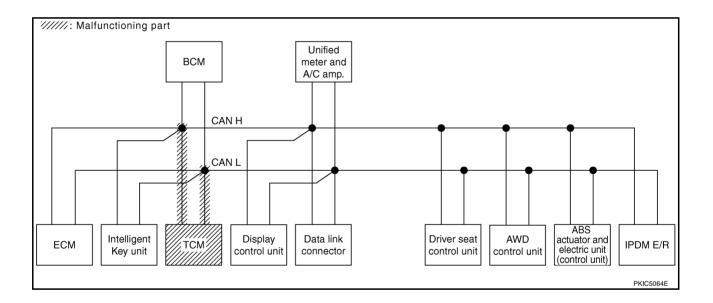
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Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

					С	AN DIAC	SUPPO	RT MNT	R					
SELECT SYSTEM	screen	la Mal	T				Rece	eive diagr	nosis				SELF-DIAG	BESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	_	_	UNKWN	-	_		UNKWN	_	UNKWN	UNKWN	_	UNKWN	CAN COMMCIRCUIT (U 1000)	CAN COMM CIRCU (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indivation	NG	UNKWN	UNKWN	-	-	_	_	UNKWN		UNKWN	-	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	_	_	UNKWN	_	_
METER A/C AMP	No indication	—	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	Ι	UNKWN	UNKWN	Ι	CAN COMM/CIRCUIT (U 1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	Ι	UNKIN	UNKWN	_	UNKWN	Ι	_	Ι	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	-	_	_	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	Ι	_	-	_	Ι	Ι	-	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	_	Ι	Ι	_	Ι	CAN COMM CIRCUIT (U1000)	-



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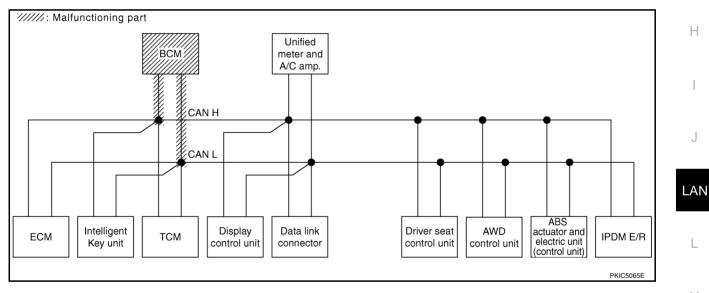
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# Case 8

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Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

					C	CAN DIAC	G SUPPO	RT MNT	R					
SELECT SYSTEM	screen	Initial	Transmit				Rece	eive diagi	nosis				SELE-DIAC	RESULTS
OLLEON OF OTOTEL	di			ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	_	UNKWN	UNKIN		UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
NTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	-	UNKIN	_	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	_	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	Not individual	NG	UNKWN	UNKWN	UNKWN	—	-	-	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	_	-	UNKVN	_	UNKWN	-	-	UNKWN	-	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	_	UNKWN	UNKIN	UNKWN	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	-	UNKWN	UNK	-	UNKWN	-	-	-	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	—	-		UNKWN	-	-	Ι	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKIN	_	_	-	-	-	CAN COMM CIRCUIT (UN00)	_



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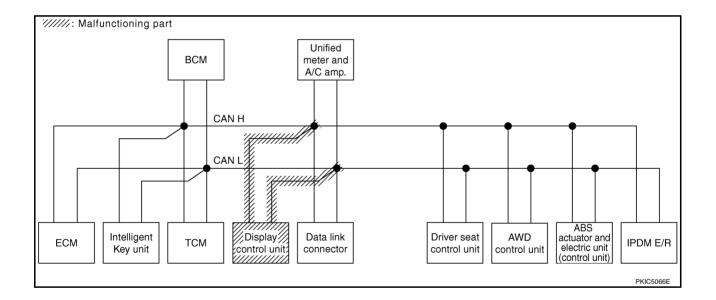
PKIC5164E

# Case 9

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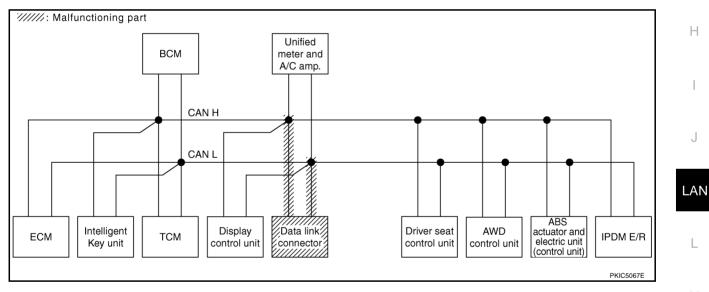
Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

					C	AN DIAG	SUPPO	RT MNT	R					
SELECT SYSTEM	screen		<b>-</b> 1				Rece	eive diagr	nosis				SELF-DIAG	BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	7700			
ENGINE	-		UNKWN	-	_	UNKWN	UNKWN	_	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	1	UNKWN	UNKWN	-	1	UNKWN	_	UNKWN	_	—	—	CAN COMM CIRCUIT (U1000)	1
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	1	1	_	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	-		_	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG		UNKWN	Ι	-		_		Ι	—	UNKWN	_	—
METER A/C AMP	No indication	_	UNKWN	UNKWN	-	UNKWN	UNKWN	UNHWN	—	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	_	-	_	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	_	_	-	_	-	—	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	I	UNKWN	UNKWN	-	-	UNKWN	_	-	_	_	_	CAN COMM CIRCUIT (U1000)	_



Check data link connector circuit. Refer to LAN-166, "Data Link Connector Circuit Inspection" .

					C	CAN DIAC	G SUPPC	ORT MNT	R					
SELECT SYSTEM	screen		÷ .				Rec	eive diagr	nosis				SELE-DIAG	RESULTS
OLLEON OP OP OF OF ONE		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	_	_	UNKWN	_	_	UNKWN	UNKWN	-	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No inditation	_	UNKWN	UNKWN	_	—	UNKWN	-	UNKWN	_	—	I	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	-	—	UNKWN	_	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
BCM	No indivision	NG	UNKWN	UNKWN	UNKWN	—	-	-	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	Ι	NG	UNKWN	UNKWN	_	—	UNKWN	-	UNKWN	-	Ι	UNKWN	_	—
	No indication	_	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	1	UNKWN	UNKWN	I	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN		_	UNKWN	UNKWN	-	UNKWN	—	-	1	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	Ι	NG	UNKWN	UNKWN	_	—	-	-	UNKWN	-	Ι	1	CAN COMM CIRCUIT (U1000)	_
ABS	Ι	NG	UNKWN	UNKWN	—	—	-	-	_	-	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	-	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Revision: 2006 August

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PKIC5166E

# Case 11

Check unified meter and A/C amp. circuit. Refer to LAN-166, "Unified Meter and A/C Amp. Circuit Inspection" .

					C	CAN DIAC	SUPPO	RT MNT	R					
SELECT SYSTEM	ecreen		-				Rece	eive diag	nosis					RESULTS
SELECT STOTEM.		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TILOULIS
ENGINE	_	-	UNKWN	-	_	UNKWN	UNKWN	_	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1 1)
INTELLIGENT KEY	No indication		UNKWN	UNKWN	_	—	UNKWN	-	UNKWN	-	_	_	CAN COMMCIRCUIT (U 100)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	—	_		UNKWN	—	UNKWN		CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	_		UNKWN	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	—	UNKWN	-	UNKWN	-	_	UNKWN	_	_
METER A/C AMP	No inditation	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	_	CAN COMMCIRCUIT (UN00)	_
AUTO DRIVE POS.	No indication	NG	UNKWN		_	UNKWN	UNKWN	-	UNKWN	-	_	Ι	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	—	-	-	-	UNKIN	-	_	Ι	CAN COMMCIRCUIT (U 1000)	_
ABS	_	NG	UNKWN	UNKWN	_	_	_	_	_	-	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	-	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

//////: Malfunctioning part Unified meter and A/C amp. BCM CAN H CAN L ABS actuator and electric unit (control unit) Intelligent Display Data link Driver seat AWD ECM тсм IPDM E/R control unit Key unit control unit connector control unit PKIC5068E

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#### Check driver seat control unit circuit. Refer to LAN-167, "Driver Seat Control Unit Circuit Inspection" . CAN DIAG SUPPORT MNTR Receive diagnosis SELECT SYSTEM screen SELF-DIAG RESULTS Initial Transmit AWD/4WD VDC/TCS IPDM BCM METER diagnosi diagnosis ECM I-KEY тсм DISPLA /SEC /M&A /ABS E/R CAN COMM CIRCUIT CAN COMM CIRCUIT UNKWN UNKWN UNKWN บทหพทใบทหพท UNKWN ENGINE \_ (U1001) (U1000)No CAN COMM CIRCUIT INTELLIGENT KEY \_ UNKWNUNKWN \_ \_ UNKWN \_ UNKWN \_ \_ \_ \_ (U1000) ndicatio No CAN COMM CIRCUIT TRANSMISSION NG UNKWNUNKWN \_ \_ UNKWN UNKWN \_ \_ \_ \_ \_ ndicatio (U1000) CAN COMM CIRCUIT (U1000) D No всм NG บทหพทไบทหพทไบทหพท \_ UNKWN UNKWN \_ \_ \_ \_ \_ ndicatio Display control unit NG UNKWNUNKWN \_ UNKWN \_ UNKWN UNKWN \_ \_ \_ CAN COMM CIRCUIT No \_ \_ METER A/C AMP UNKWNUNKWN UNKWN IUNKWNUNKWN \_ UNKWNUNKWI \_ \_ (U1000) ndicatio Nor CAN COMIC CIRCUIT (U 100) AUTO DRIVE POS NG UNKWN \_ \_ บทหพทไบทหพท \_ UNKWN \_ \_ \_ \_ AN COMM CIRCUIT UNKWNUNKWN JNKWN \_ ALL MODE AWD/4WD NG \_ \_ \_ \_ \_ (U1000) CAN COMM CIRCUIT ABS \_ NG UNKWNUNKWN \_ \_ \_ \_ \_ \_ \_ \_ \_ (U1000) No CAN COMM CIRCUIT IPDM E/R \_ UNKWNUNKWN \_ \_ UNKWN \_ \_ \_ \_ \_ \_ (U1000) ndicatio PKIC5167E //////: Malfunctioning part Н Unified BCM meter and A/C amp. CAN H CAN L LAN ABS Intelligent Data link Driver seat AWD Display actuator and ECM тсм IPDM E/R control unit electric unit Key unit control unit connector control unit (control unit) PKIC5069E

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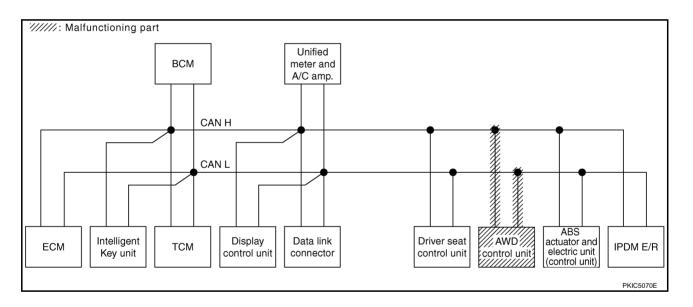
Case 12

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Check AWD control unit circuit. Refer to LAN-168, "AWD Control Unit Circuit Inspection" .

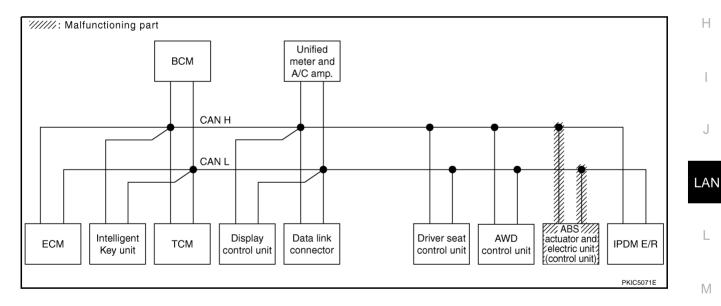
					C	AN DIAG	SUPPO	RT MNT	7					
SELECT SYSTEM	ecreen		-				Rece	eive diagr	nosis				SELF-DIAG	RESINTS
SELECT STOTEM.		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-		UNKWN	-	_	UNKWN	UNKWN	_	UNKWN	UNIWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U0001)
INTELLIGENT KEY	No indication	1	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	_	—	—	CAN COMM CIRCUIT (U1000)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	-	_	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_		_	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	Ι
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	—	UNKWN	-	—	UNKWN	—	_
METER A/C AMP	No indication	1	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	—	Ι	UNKWN	UNKWN	_	UNKWN	-	—	—	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	-	١	_	Ι	—	Ι	-	-	-	CAN COMM CIRCUIT (UN000)	-
ABS	-	NG	UNKWN	UNKWN	-	_	_	-	—	-	—	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

PKIC5168E



Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-168</u>, "ABS Actuator and Electric Unit (<u>Control Unit</u>) <u>Circuit Inspection</u>".

					C	AN DIAC	G SUPPC	RT MNT	R					
SELECT SYSTEM	screen	La Mart	T				Rec	eive diag	nosis				SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVE	
ENGINE	-	-	UNKWN	-	—	UNKWN	UNKWN	_	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
NTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_		UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	—	UNKWN	-	UNIN	_	CAN COMM CIRCUIT (UN000)	_
ЗСМ	No indication	NG	UNKWN	UNKWN	UNKWN		-	-	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	_	—	UNKWN	—	UNKWN	-	-	UNKWN	-	—
METER A/C AMP	No indication	-	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	_	UNKWN	UNIN	_	CAN COMM CIRCUIT (UN000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	- 1	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	V	UNKWN	UNKWN	_	-	-	_	-	_	-	-	CAN COMM CIRCUIT (U 000)	_
PDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

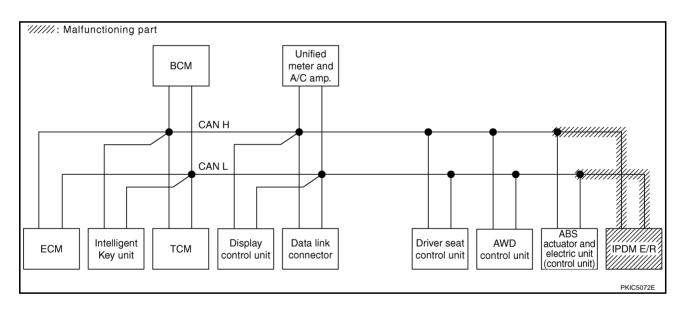


# Case 15

## Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

					C	CAN DIAC	G SUPPO	RT MNT	R					
SELECT SYSTEM	ecreen		-				Rece	eive diag	nosis					RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD		IPDM E/R		
ENGINE	_	_	UNKWN	-	-	UNKWN	UNKWN	_	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM/CIRCU (UN01)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN		—	UNKWN	I	UNKWN	-	_	1	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	—	-		UNKWN	_	UNKWN		CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	-		UNKWN	-	_		CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	-	UNKWN	-	UNKWN	-	_		—	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	—	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	—	-	-	-	UNKWN	-	-	Ι	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	_	-	-	-	_	-	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	Notion Notion	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	_	CAN COMIN CIRCUIT (U 000)	_

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# Case 16

Check CAN communication circuit. Refer to LAN-169, "CAN Communication Circuit Inspection" .

					C	AN DIA	G SUPPC	DRT MNT	R					
SELECT SYSTEM	screen						Rec	eive diag	nosis				SELF-DIAG	RESULTS
OLLEOT OTOTEM		Initial diagnosis	Transmit diagnosis		I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNIWN	_	-		IUNKWN	—	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U 100)	CAN COMMCIRCUIT (U101)
NTELLIGENT KEY	No indication		UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	_	CAN COMM CIRCUIT (U 100)	_
TRANSMISSION	indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	Ι	CAN COMM CIRCUIT (U 100)	_
ВСМ	indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-	UNK	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	—	-	UNKWN	IUNKWN	-	UNKWN	_	-	Ι	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	-	-	-	-	-	_	-	-	Ι	CAN COMM CIRCUIT (U 100)	-
ABS	-	V	UNKWN	UNKWN	-	-	-	-	_	-	-	-	CAN COMM CIRCUIT (U 100)	-
PDM E/R	No individual	_	UNKWN	UNKWN	-	_	UNKWN	_	_	_	_	_	CAN COMMCIRCUIT (U 100)	_

# Case 17

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-170</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection"</u>.

					C	AN DIAC	G SUPPC	RT MNT	R					
SELECT SYSTEM	screen	la Mal	T				Rec	eive diagi	nosis				SELE-DIAG	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	UNKIN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	-	UNKWN	—	UNKWN	-	_	—	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	—	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG	UNKWN	UNKWN	—	-	UNKWN	—	UNKWN	-	_	UNKWN	-	—
METER A/C AMP	No indication	-	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	—	UNKIN	UNKWN	-	CAN COMM CIRCUIT (UN000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	—	UNKWN	UNKWN	—	UNKWN	-	-	_	CAN COMM CIRCUIT (U 000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	_	-	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	_	-	-	_	-	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	UNKWN	_	_	-	_	_	CAN COMM CIRCUIT (U1000)	_

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-170, "IPDM E/R Ignition Relay</u> <u>Circuit Inspection"</u>.

														1
					С	AN DIAC	SUPPC	RT MNT	R					
SELECT SYSTEM	screen		<b>-</b>				Rec	eive diagr	nosis				SELF-DIAG	BESULTS
	5010011	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	—	_	UNKWN	-	UNKWN	—	_	—	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	—	-		_	I	_	_	UNKWN		CAN COMU CIRCUIT (UN000)	—
всм	No indication	NG	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	l	NG	UNKWN	UNKWN	-		UNKWN	1	UNKWN	—	_	UNKWN	_	_
METER A/C AMP	No indication	l	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	—	Ι	UNKWN	UNKWN	I	UNKWN	-	-	—	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD		NG	UNKWN	—	-	-	_		—	—	-	-	CAN COMM CIRCUIT	_
ABS	Ι	NG	UNKWN	—	1	_	-	-	-	-	-	-	CAN COMM CIRCUIT (UN000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	-	_	_	_	—	CAN COMM CIRCUIT (U1000)	
														PKIC5173E

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CAN SYSTEM (TYPE 6)	PFP:23710	
Component Parts and Harness Connector Location	NKS002UG	А
Refer to LAN-25, "Component Parts and Harness Connector Location".		
Schematic	NKS002UH	В
Refer to LAN-26, "Schematic".		
Wiring Diagram — CAN —	NKS002UI	С
Refer to LAN-27, "Wiring Diagram — CAN —".		
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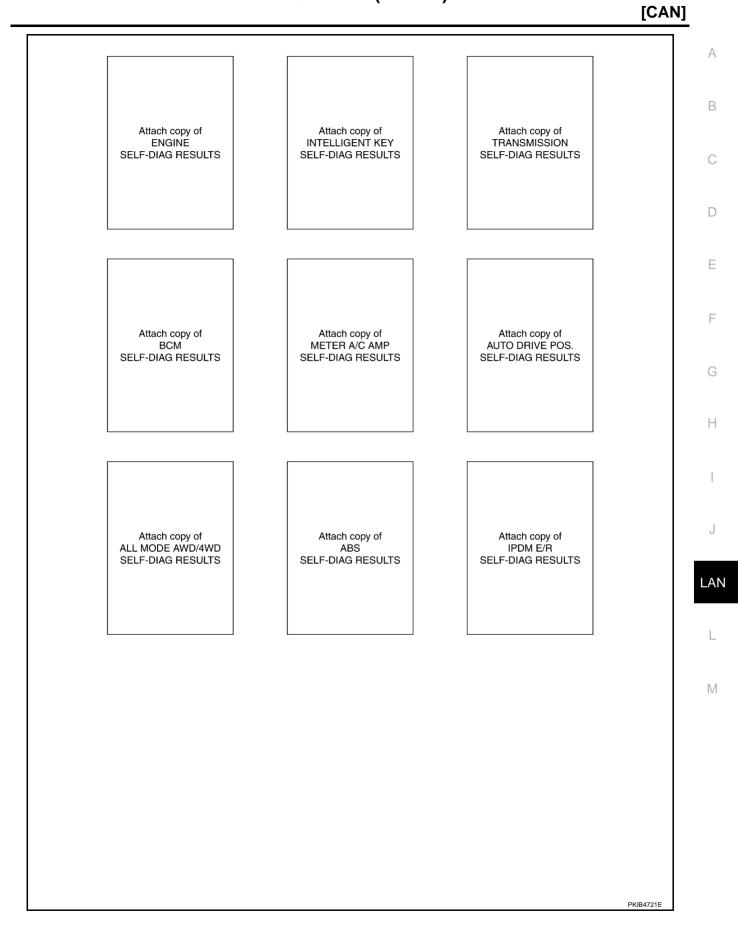
# **Check Sheet**

NKS002UJ

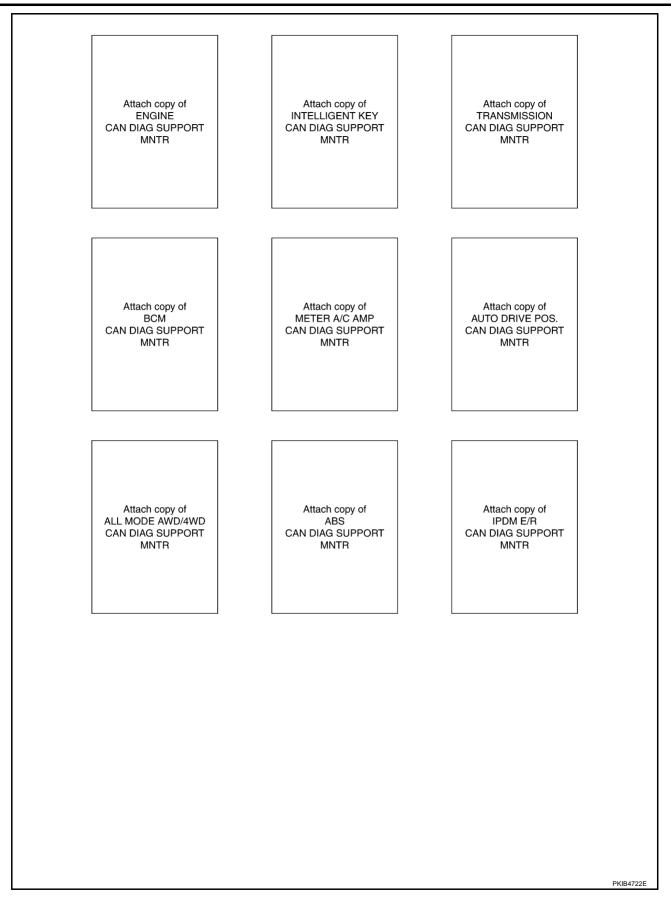
## NOTE:

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

Check sheet tab						CAN	N DIAG SU	PPORT M	NTR						
								Receive	diagnosis						
SELECT SYSTEM s	creen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULIS
ENGINE	-	-	UNKWN	-	_	UNKWN	UNKWN	-	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	1	_	-	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit		NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	_	_	UNKWN		_
METER A/C AMP	No indication	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No	NG	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	_	UNKWN	_	_	_	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT	_
IPDM E/R	No	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	_	_	(U1000) CAN COMM CIRCUIT	_
	indication			onnan										(U1000)	
				Attac SELEC	h copy T SYS						ach cop ECT SY				
Dianta				n Char							h a al cura				-
Confirmation/Ad	,				sheet			<u> </u>			justmer			ove check sheet t Check sheet ta	
CAN COMM		-1	-		nitial di				AN CIR			1	-	METER/	
CAN CIRC 1					ansmit	-			AN CIR					_	
CAN CIRC 2						CM			AN CIR					IPDM E	E/R
CAN CIRC 3					EC	M		C	AN CIR	C 8				_	
CAN CIRC 4					-	-		C	AN CIR	C 9				-	
					CAN	DIAG S	displa	ach cop ly contr RT MO		Check	Sheet				
															PKIC5135E



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# CHECK SHEET RESULTS (EXAMPLE)

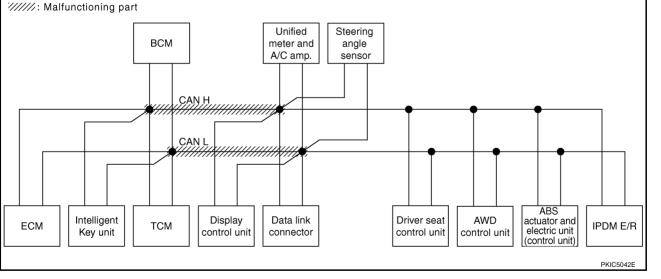
## NOTE:

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

## Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-157</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

		CAN DIAG SUPPORT MNTR													
SELECT SYSTEM S	creen	In Mark Trans					SELF-DIAG RESULTS								
SELECT STOTEWIS	oreen	Initial diagnosis	Transmit diagnosis	ЕСМ	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	JELI-DIAC	
ENGINE	—		UNKWN	-	_	UNKWN	UNKWN	-		_	UNK	UNKUN	UNK	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN001)
INTELLIGENT KEY	No inditation	-	UNKWN	UNKWN	—	-	UNKWN	-	UNKWN	—	-	-	_	CAN COMM CIRCUIT (U0000)	_
TRANSMISSION	No inditiation	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U0000)	—
BCM	No indivision	NG	UNKWN	UNKWN	UNKWN		-	-	UNKWN	—	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG	UNKWN		—	-	UNKVN	-	UNKWN	—	-	-	UNKWN	_	—
METER A/C AMP	No indication	l	UNKWN		—	UNKVN	UNKVN	UNKWN	l	—	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U0000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	_	—	UNKVN	UNKVN	-	UNKWN	—	-	_	—	CAN COMM CIRCUIT (U 000)	_
ALL MODE AWD/4WD	—	NG	UNKWN		—	—	-	-	UNKWN	—	-	UNKWN	-	CAN COMM CIRCUIT (U0000)	—
ABS	—	NG	UNKWN		—	UNKIN	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (UN000)	—
IPDM E/R	No indication	-	UNKWN	UNKIN	-	-	UNKVN	-	_	-	-	-	-	CAN COMM CIRCUIT (U 000)	-



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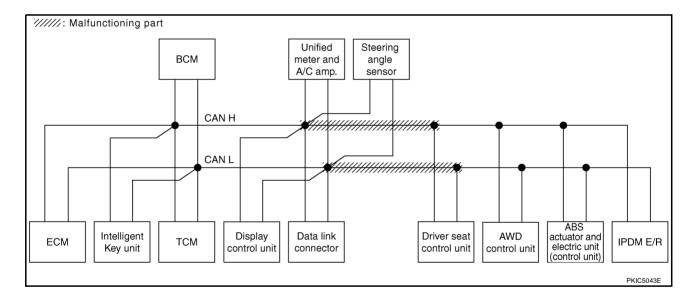
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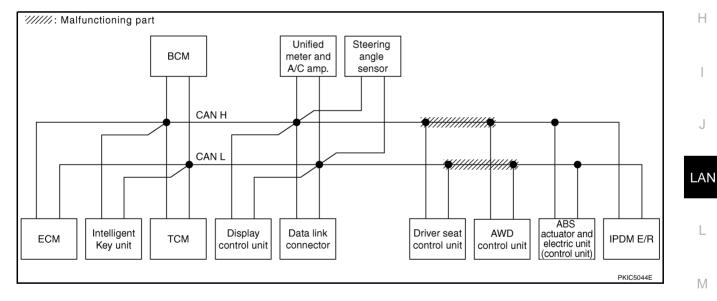
Check harness between data link connector and driver seat control unit. Refer to <u>LAN-157</u>, "Inspection <u>Between Data Link Connector and Driver Seat Control Unit Circuit</u>".

						CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM 5	creen							Receive	diagnosis					SELE-DIAC	RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	-	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	-	-	UNKWN	—	UNKWN	-	—	-		CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	1	_	UNKIN	1	CAN COMIN CIRCUIT (U 000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-		CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	—	UNKWN	—	UNKWN		_	-	UNKWN	_	_
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	-	UNKWN	UNKVN	l	CAN COMIN CIRCUIT (UN000)	_
AUTO DRIVE POS.	No inclusion	NG	UNKWN	_	-	UNKWN	UNKWN	—	UNKWN		—	-	1	CAN COMM CIRCUIT (U 000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	_	_	_	_	_	_	-	_	UNKWN	-	CAN COMM CIRCUIT (U 000)	_
ABS	-	NG	UNKWN	UNKWN	—	UNKVN	—	-	—	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (UN000)	—
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	_	_	-	-	_	CAN COMM CIRCUIT (U 000)	_



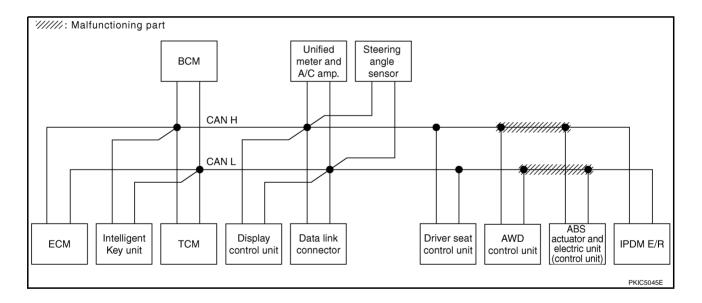
Check harness between driver seat control unit and AWD control unit. Refer to <u>LAN-161</u>, "Inspection Between <u>A</u> <u>Driver Seat Control Unit and AWD Control Unit Circuit</u>".

NTELLIGENT KEY         No indication          UNKWN         UNKWN              CAN COMM CIRCUIT (U1000)           CAN COMM CIRCUIT (U1000)              CAN COMM CIRCUIT (U1000)              CAN COMM CIRCUIT (U1000)              CAN COMM CIRCUIT (U1000)               CAN COMM CIRCUIT (U1000)               CAN COMM CIRCUIT (U1000)               CAN COMM CIRCUIT (U1000)                CAN COMM CIRCUIT (U1000)              UNKWN           UNKWN           UNKWN           UNKWN           UNKWN           UNKWN           UNKWN           UNKWN
Immandal diagnosis       Iransmit diagnosis       ECM       I-KEY       TCM       BCM response       DISPLAY       METER METER       STRG       AWD/4WD       VDC/TCS       IPDM       CAN COMM CIRCUT       CAN COM CIRCUT       CAN COM CIRCUT
ENGINE       -       -       UNKWN       -       -       UNKWN       UNKWN       -       UNKWN       -       UNKWN       -       -       UNKWN       UNKWN       -       -       -       UNKWN       UNKWN       -
INTELLIGENT KEY Indication — UNKWN UNKWN — — — UNKWN UNKWN — UNKWN — UNKWN UNKWN UNKWN — UNKWN UNKWN — UNKWN UNKWN UNKWN — UNKWN UNKWN UNKWN UNKWN — UNKWN UNKWN UNKWN UNKWN — UNKWN UNKWN — UNKWN UNKWN — UNKWN UNKWN — UNKWN UNKWN UNKWN — UNKWN UNKWN — UNKWN UNKWN — UNKWN U
TRANSMISSION         Indication         NG         UNKWN         UNKWN         —         —         —         UNKWN         —         —         UNKWN         —         —         —         UNKWN         —         —         —         UNKWN         M         —         —         UNKWN         M         —         Image: Mission for the first
BCM       Indication       NG       UNKWN       UNKWN       —       —       —       UNKWN       —       —       —       —       —       —       —       —       —       —       UNKWN       (U1000)       —       —       —       Image: Control unit       —       Image: Control unit       —       NG       UNKWN       —       —       UNKWN       —       —       UNKWN       —       —       Image: Control unit
METER A/C AMP No Indication - UNKWN UNKWN - UNKWN UNKWN UNKWN UNKWN UNKWN - CAN COMYCIRCUIT -
(or other
ALL MODE AWD/4WD - NG UNKWN UNKWN - CAN COMMCIRCUIT (UM00)
ABS - NG UNKWN UNKWN - UNKWN UNKWN UNKWN CAN COMMCIRCUIT -
IPDM E/R N UNKWN UNKWN UNKWN CAN COMYCIRCUIT



Check harness between AWD control unit and ABS actuator and electric unit (control unit). Refer to <u>LAN-163</u>, <u>"Inspection Between AWD Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit"</u>.

						CA	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM 5	creen			Receive diagnosis											BESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	_	UNKWN	UNKWN	—	UNKWN	_	UNKWN			CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U0001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	-	—	_	CAN COMM CIRCUIT (U1000)	-
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	—	-	—	UNKWN	—	-	UNKON	-	CAN COMM CIRCUIT (U0000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	—	UNKWN	—	-	—	UNKIN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	-	—		_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKON	-	CAN COMM CIRCUIT (U0000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	_	UNKWN	UNKWN	—	UNKWN	—	-	—	—	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	—	—	-	—	UNKWN	—	-	UNKON	-	CAN COMM CIRCUIT (U0000)	-
ABS	-	NG	UNKWN		_	UNKIN	-	_	_	UNKVN	UNKIN	-	-	CAN COMM CIRCUIT (U0000)	-
IPDM E/R	No indivation	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT (U 000)	-



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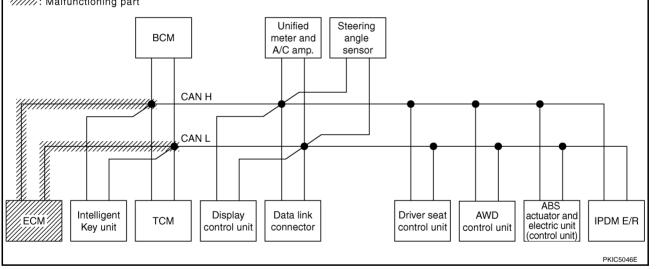
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# Case 5

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

			CAN DIAG SUPPORT MNTR													
SELECT SYSTEM	creen							Receive diagnosis SELF-DIAG RESULTS								
GLEEOTOTOTEM	oreen .	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	JEEF DIVIC		
ENGINE	-	_	UNKON	-	-		UNKUN	-	UNKUN	_	UNKWN	UNK	UNK	CAN COMM CIRCUIT (U0000)	CAN COMM CIRCUIT (U 001)	
INTELLIGENT KEY	No indication		UNKWN		—	—	UNKWN	—	UNKWN	-	-	—	_	CAN COMM CIRCUIT (U0000)	-	
TRANSMISSION	No indication	NG	UNKWN	UNKOVN	—	_	-	-	UNKWN	1	-	UNKWN	-	CAN COMM CIRCUIT (U0000)	1	
BCM	No indication	NG	UNKWN	UNKOVN	UNKWN	-	-	-	UNKWN		-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
Display control unit	-	NG	UNKWN	UNKOWN	—	-	UNKWN	-	UNKWN	l	-	—	UNKWN	_	-	
METER A/C AMP	No indication	1	UNKWN	UNKOVN	—	UNKWN	UNKWN	UNKWN	—	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U0000)	1	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	—	UNKWN	UNKWN	—	UNKWN	1	-	—	-	CAN COMM CIRCUIT (U1000)	1	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKOVN	—	—	-	—	UNKWN	1	-	UNKWN	-	CAN COMM CIRCUIT (U0000)	Ι	
ABS	-	NG	UNKWN		-	UNKWN	-	-	—	UNKWN	UNKWN	—	-	CAN COMM CIRCUIT (U0000)	1	
IPDM E/R	No indication	-	UNKWN	UNKOWN	—	—	UNKWN	-	-	_	-	-	-	CAN COMM CIRCUIT (U0000)	-	



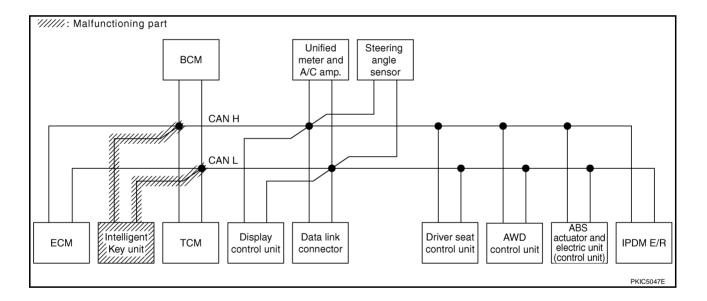
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Check Intelligent Key unit circuit. Refer to LAN-164, "Intelligent Key Unit Circuit Inspection" .

						CAN	I DIAG SU	PPORT M	NTR						
SELECT SYSTEM	creen			Receive diagnosis										SELF-DIAG	
SELECTOTOTEM		Initial Transmit diagnosis diagnosis		ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	_	UNKWN	UNKWN	—	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
INTELLIGENT KEY	No inclusion	—	UNKWN	UNKWN	-	-	UNKWN	—	UNKWN	-	—	-	-	CAN COMM CIRCUIT (U0000)	-
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	_	—	UNKWN		-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	UNKUN	_	_	_	UNKWN	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	-	_	-	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	NG	UNKWN	—	-	UNKWN	UNKWN	—	UNKWN	1	—	-	-	CAN COMM CIRCUIT (U1000)	1
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	—	UNKWN	_	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	—	UNKWN	—	—	-	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	_	—	_	_	-	-	CAN COMM CIRCUIT (U1000)	_



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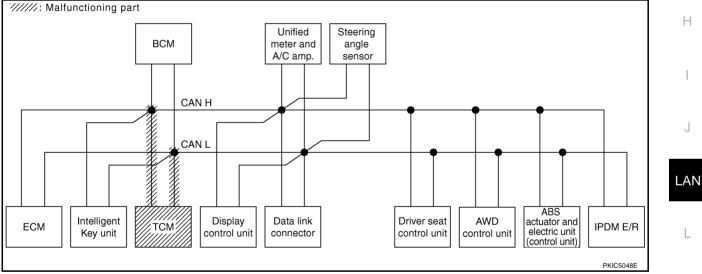
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#### Case 7

Check TCM circuit. Refer to LAN-164, "TCM Circuit Inspection" .

						CA	N DIAG SU	IPPORT M	NTR						
SELECT SYSTEM	oroon							Receive	diagnosis					SELF-DIAG	DECUTE
SELECT STSTEMS	creen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESOLIS
ENGINE	-	_	UNKWN	_	_	UNKWN	UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (0000)	CAN COMM CIRCUI (U0001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	_	—	UNKWN	-	UNKWN	_	—	_	_	CAN COMM CIRCUIT (U1000)	-
TRANSMISSION	No inclusion	NG	UNKWN	UNKWN	_	_	-	-	UNKWN		—	UNKWN	-	CAN COMM CIRCUIT (0000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN		-	-	UNKWN	1	_		UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	—	UNKWN	-	UNKWN	—	—	-	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	CAN COMPLCIRCUIT (U 000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	_	UNKWN	UNKWN	-	UNKWN	_	_	_	-	CAN COMPLCIRCUIT (U 000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	—	-	-	UNKWN	_	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	—	UNKWN	-	-	-	UNKWN	UNKWN	-	-	CAN COMPLCIRCUIT (U 000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKWN	-	_	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



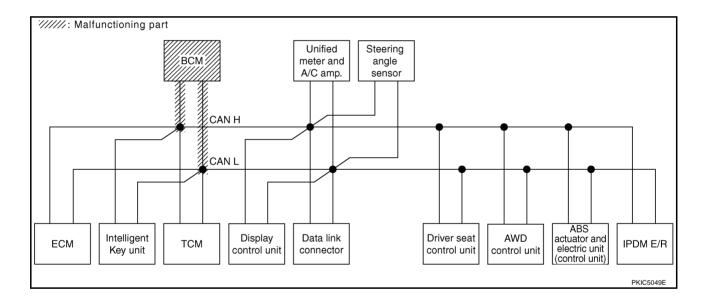
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Check BCM circuit. Refer to LAN-165, "BCM Circuit Inspection" .

						CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM :	creen							Receive	diagnosis					SELE-DIAG	RESULTS
SELECT STOTEM	Scieen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	_	UNKWN	UNKVN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U0001)
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	—	-	UNKIVN	—	UNKWN	—	_		_	CAN COMPLCIRCUIT (0000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	-	-	-	UNKWN	—	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No inclusion	NG	UNKWN	UNKWN	UNKWN	_	-	_	UNKWN	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	UNKVN	-	UNKWN	-	-	-	UNKWN	_	_
METER A/C AMP	No indication	—	UNKWN	UNKWN	—	UNKWN	UNKIVN	UNKWN	I	—	UNKWN	UNKWN	—	CAN COMPLCIRCUIT (U 000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	—	—	UNKWN	UNKIVN	—	UNKWN	—	—	-	-	CAN COMPLCIRCUIT (U 000)	—
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	-	—	—	UNKWN	—	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	-		UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	_	_	-	-	-	CAN COMPLCIRCUIT (0000)	_



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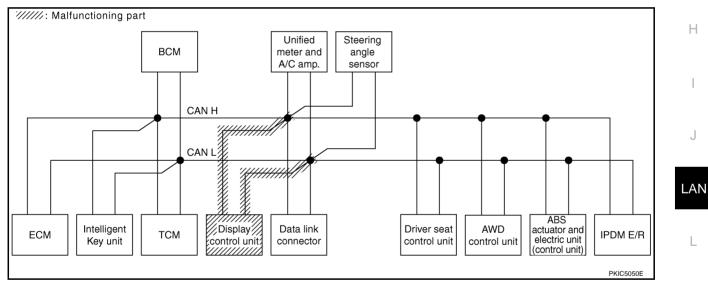
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#### Case 9

Check display control unit circuit. Refer to LAN-165, "Display Control Unit Circuit Inspection" .

						CA	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM s	oroon							Receive	diagnosis					SELE DIAG	RESULTS
SELECT STOTEM'S	Green	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	JELI DIAC	THEOLETO
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—	—	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	-	-	UNKWN	—	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	—	—	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG		UNKVN	—	-	UNKVN	-		—	—	-		_	—
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKVN	-	_	UNKWN	UNKWN	-	CAN COMPLCIRCUIT (U 000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	-	—	UNKWN	UNKWN	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	-	-	-	-	_	-	CAN COMM CIRCUIT (U1000)	_

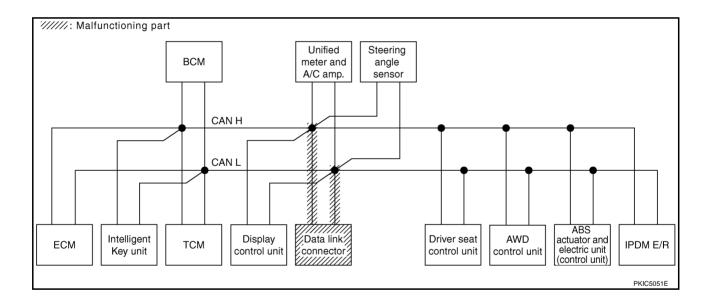


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Check data link connector circuit. Refer to LAN-166, "Data Link Connector Circuit Inspection" .

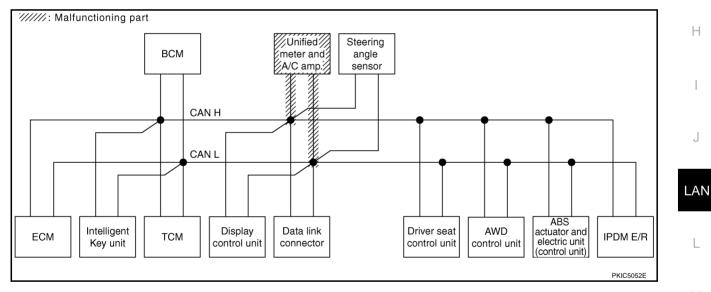
						CAN	I DIAG SU	PPORT MI	NTR						
SELECT SYSTEM S	creen							Receive	diagnosis					SELE-DIAG	RESULTS
	oreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-		UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
INTELLIGENT KEY	No inclusion		UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	—	_		_	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	incration	NG	UNKWN	UNKWN	-	_	_	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	increation	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	_	—	UNKWN	—	UNKWN	-	-	-	UNKWN	_	_
METER A/C AMP	incration	-	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN		—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	incration	NG	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	_	_	_	—	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	_	_	_	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	_	UNKWN	_	—		UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No increation	I	UNKWN	UNKWN	-	—	UNKWN	_	_	_	_	-	-	CAN COMM CIRCUIT (U1000)	



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А Check unified meter and A/C amp. circuit. Refer to LAN-166, "Unified Meter and A/C Amp. Circuit Inspection" .

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							Receive	diagnosis						G RESULTS
	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIA	A NEGOLIG
-	Ι	UNKWN	_	-	UNKWN	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 001)
No dication	Ι	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	-	-	_	-	CAN COMM CIRCUIT (U0000)	_
No dication	NG	UNKWN	UNKWN		-	I	-	UNKWN		-	UNKWN	-	CAN COMM CIRCUIT (Un000)	_
No dication	NG	UNKWN	UNKWN	UNKWN	-		-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
-	NG	UNKWN	UNKWN		-	UNKWN	-	UNKWN	-	-	-	UNKWN	-	-
Nation	-	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U0000)	-
No dication	NG	UNKWN	_	-	UNKWN	UNKWN	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U0000)	-
-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U0000)	-
-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
No dication	-	UNKWN	UNKWN	-	_	UNKWN	_	-	_	-	-	-	CAN COMM CIRCUIT (U1000)	-
		<ul> <li>—</li> <li>—</li> <li>No</li> <li>ication</li> <li>NG</li> <li>ication</li> <li>NG</li> <li>MG</li> <li>—</li> <li>NG</li> <li>NG</li> <li>—</li> </ul>	-     -     UNKWN       No     -     UNKWN       No     NG     UNKWN       No     NG     UNKWN       -     NG     UNKWN       -     NG     UNKWN       Nation     NG     UNKWN       No     NG     UNKWN		-     -     UNKWN     -     -       No     UNKWN     UNKWN     UNKWN     -       No     UNKWN     UNKWN     UNKWN     -       No     NG     UNKWN     UNKWN     -       No     NG     UNKWN     UNKWN     -       No     NG     UNKWN     UNKWN     -       No     -     UNKWN     UNKWN     -       Nation     NG     UNKWN     UNKWN     -       -     NG     UNKWN     UNKWN     -       -     NG     UNKWN     UNKWN     -       -     NG     UNKWN     UNKWN     -	-     -     UNKWN     -     -     UNKWN       No     UNKWN     UNKWN     UNKWN     -     -       No     UNKWN     UNKWN     -     -       No     NG     UNKWN     UNKWN     -     -       No     NG     UNKWN     UNKWN     -     -       No     NG     UNKWN     UNKWN     -     -       No     UNKWN     UNKWN     UNKWN     -     -       Ng     UNKWN     UNKWN     -     -       No     NG     UNKWN     UNKWN     -     -       Ng     UNKWN     UNKWN     -     -     -       No     UNKWN     UNKWN     -     -     -       No     UNKWN     UNKWN     -     -     -	No     -     UNKWN     -     -     UNKWN     UNKWN       No     UNKWN     UNKWN     -     -     UNKWN       No     UNKWN     UNKWN     -     -     UNKWN       No     UNKWN     UNKWN     -     -     -       No     UNKWN     UNKWN     -     -     UNKWN       Nation     NG     UNKWN     UNKWN     -     -       No     UNKWN     UNKWN     -     -     -       Nation     NG     UNKWN     UNKWN     -     -       NG     UNKWN     UNKWN     -     -     -       No     UNKWN     UNKWN     -     -     -	No         UNKWN           UNKWN         UNKWN            No          UNKWN         UNKWN          UNKWN            No          UNKWN         UNKWN           UNKWN            No         Ication         NG         UNKWN         UNKWN              No         Ication         NG         UNKWN         UNKWN              No         Ication         NG         UNKWN         UNKWN              No         Ication         NG         UNKWN         UNKWN              No         UNKWN         UNKWN           UNKWN             Nation          UNKWN         UNKWN               No         ING         UNKWN         UNKWN               -         NG         UNKWN         UNKWN	No         UNKWN         Image: U	No         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         Image: Constraint of the state of the sta	No         UNKWN         UNKWN         —         —         —         UNKWN         —         —         —         …	No         UNKWN         UNKWN         —         —         UNKWN         —         —         UNKWN         —         —         UNKWN         —         —         UNKWN         —         —         —         UNKWN         —         —         —         UNKWN         —         —         —         UNKWN         —         —         —         —         …	No         UNKWN         UNKWN         -         -         UNKWN         -         -         UNKWN         -         -         -         UNKWN         -         -         -         UNKWN         -         -         UNKWN         -         UNKWN         -         UNKWN         -         UNKWN         -         UNKWN         -         UNKWN         - </td <td>Los M         Leven         FREP         FREP         Leven         FREP         Market         STRG         AWU4WU         FREP         AW</td>	Los M         Leven         FREP         FREP         Leven         FREP         Market         STRG         AWU4WU         FREP         AW



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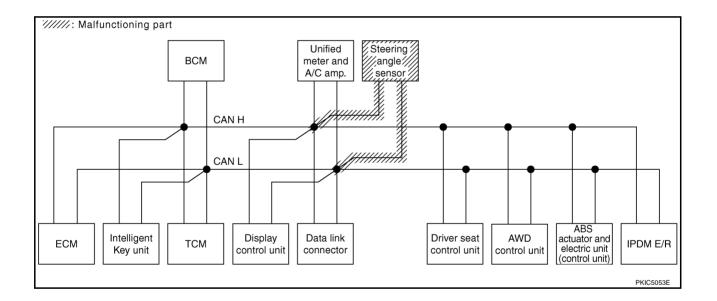
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#### Case 12

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Check steering angle sensor circuit. Refer to LAN-167, "Steering Angle Sensor Circuit Inspection" .

						CAN	I DIAG SU	PPORT MI	NTR						
SELECT SYSTEM s	creen							Receive	diagnosis					SELF-DIAG	RESULTS
OLLEOT OTOTEM'S	oreen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	1	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
INTELLIGENT KEY	No indication	l	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	_	_		-	CAN COMM CIRCUIT (U1000)	-
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	_	—	UNKWN	—	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	-	-	-	UNKWN	-	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	—	_	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	_	UNKWN	UNKWN	—	UNKWN	—	_	_	—	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	_	UNKWN	_	—	-	UNKVN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	-	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



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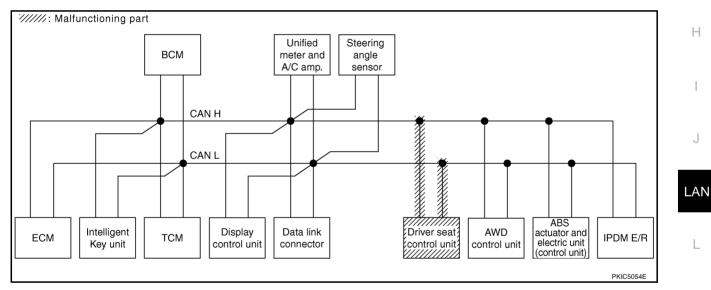
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#### Case 13

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Check driver seat control unit circuit. Refer to LAN-167, "Driver Seat Control Unit Circuit Inspection" .

						CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM a	creen							Receive	diagnosis					SELF-DIAG	DESUITS
SELECTOTOTEMA	Green	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN		UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	_	-	-	Ι	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	_	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	_	-	-	UNKWN	-	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	_	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No inclusion	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U 000)	—
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	_	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	_	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_

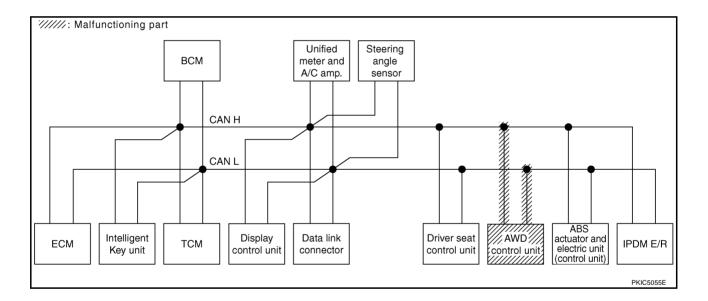


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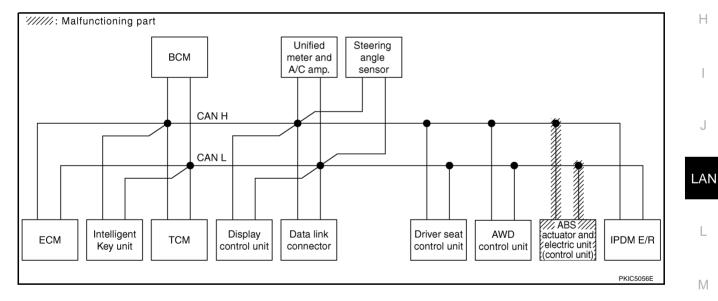
Check AWD control unit circuit. Refer to LAN-168, "AWD Control Unit Circuit Inspection" .

						CAN	N DIAG SU	PPORT MI	NTR						
SELECT SYSTEM 5	creen							Receive	diagnosis					SELE-DIAG	RESULTS
SELECTOTOTEME	CIECH	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	_		UNKWN	_		UNKWN	UNKWN	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 001)
INTELLIGENT KEY	No indication		UNKWN	UNKWN	_	—	UNKWN	_	UNKWN	—	—	-		CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN		-	-	-	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	—	-	UNKWN	_	UNKWN	_	_	-	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN00)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	1	I	UNKWN	UNKWN	-	UNKWN	—	—	-	-	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	-	NG	UNKVN	-		—	—	-	1	—	—	-	Ι	CAN COMM CIRCUIT (U 000)	—
ABS	-	NG	UNKWN	UNKWN		UNKWN	-	-	1	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U 000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	UNKWN	-	_	_	_	-	-	CAN COMM CIRCUIT (U1000)	_



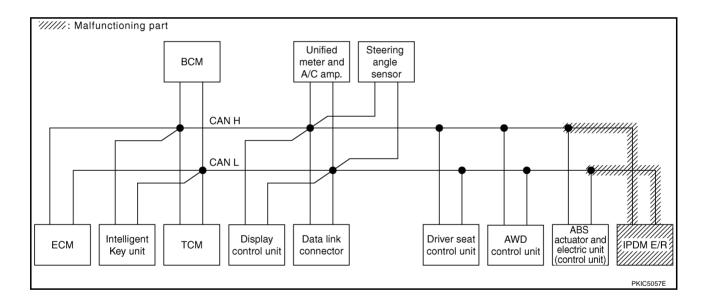
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-168</u>, "ABS Actuator and Electric Unit (<u>Control Unit</u>) <u>Circuit Inspection</u>".

						CAN	I DIAG SU	PPORT M	NTR						
SELECT SYSTEM scr								Receive	diagnosis					SELE-DIA(	G RESULTS
	cen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	JEE -DIA	
ENGINE	-	-	UNKWN	_	-	UNKWN	UNKWN	_	UNKWN	-	UNKWN	UNKVN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
INTELLIGENT KEY	No indication		UNKWN	UNKWN	_	l	UNKWN	—	UNKWN	-	-	_	_	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	1	_	_	UNKWN	-	-	UNKVN	-	CAN COMM CIRCUIT (U 000)	_
всм	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	_	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	-	-	-	UNKWN	-	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKIN	-	CAN COMM CIRCUIT	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	-	UNKWN	UNKWN	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKVN	-	CAN COMV CIRCUIT (U 000)	-
ABS	-	*	UNKWN	UNKWN	-	UNKWN	-	-	_	UNKVN	UNKIN	-	-	CAN COMM CIRCUIT (U 000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	_	_	-	_	-	-	CAN COMM CIRCUIT (U1000)	-



#### Check IPDM E/R circuit. Refer to LAN-169, "IPDM E/R Circuit Inspection" .

						CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	creen							Receive	diagnosis					SELE-DIA	B RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U001)
INTELLIGENT KEY	No indication		UNKWN	UNKWN	_	—	UNKWN	—	UNKWN	_	—	—	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	-	—	UNKWN	-	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN		-	-	UNKWN	1	_	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	—	UNKWN	—	UNKWN	-	—	-	UNKWN	_	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	_	-	CAN COMM CIRCUIT	_



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#### Case 17

Check CAN communication circuit. Refer to LAN-169, "CAN Communication Circuit Inspection" .

						CA	N DIAG SU	IPPORT M	NTR						
SELECT SYSTEM	creen							Receive	diagnosis					SELE-DIA	G RESULTS
		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	/ABS	IPDM E/R		
ENGINE	-	-	UNKUN	_	_			_		_	UNKVN			CAN COMM CIRCUIT (U 000)	CAN COMM CIRCUIT (U0001)
INTELLIGENT KEY	No inclusion		UNKWN	UNKWN	—	—	UNKWN	-	UNKWN	-	_	-	_	CAN COMICIRCUIT (U 000)	_
TRANSMISSION	Not inclusion	NG	UNKWN	UNKWN	—	—	-	-	UNKWN	-	-	UNKWN		CAN COMM CIRCUIT (U 000)	—
BCM	Not inclusion	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG	UNKIN	UNKIN	-	-		-		-	-	-	UNKON	-	-
METER A/C AMP	Not inclusion	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 000)	—
AUTO DRIVE POS.	indiation	NG	UNKWN	_	_	UNKWN	UNKWN	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (UN000)	-
ALL MODE AWD/4WD	-	NG	UNKVN	_	_	_	_	-	-	-	-	-	-	CAN COMM CIRCUIT (UN000)	-
ABS	-	V	UNKUN	UNKUN	-	UNKUN	-	-	-	UNKUN	UNKWN	-	-	CAN COMM CIRCUIT (UM000)	-
IPDM E/R	incration	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	-	_	CAN COMM CIRCUIT	_

#### Case 18

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-170</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection"</u>.

						CA	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM s	creen							Receive	diagnosis					SELE-DIAG	RESULTS
SELECT CTOTEM'S		Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	ULL DIVE	
ENGINE	-		UNKWN	_	_	UNKIN	UNKWN	-	UNKWN	_	UNK		UNKWN	CAN COMM CIRCUIT (U0000)	CAN COMM CIRCUIT (U 001)
INTELLIGENT KEY	No indication		UNKWN	UNKWN	_	—	UNKWN	—	UNKWN	—	-	-	-	CAN COMM CIRCUIT (U1000)	_
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	—	-	-	UNKWN	—	-	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN		-	-	UNKWN	_	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	—	-	-	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKIN	UNKWN	UNKWN	-	_	UNKVN	UNKON	Ι	CAN COMM CIRCUIT (U0000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	—	_	UNKIN	UNKWN	—	UNKWN	—	_	_	_	CAN COMM CIRCUIT (U 000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	—	-	—	UNKWN	—	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	_	_	-	-	-	CAN COMM CIRCUIT (U1000)	-

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-170, "IPDM E/R Ignition Relay</u> <u>Circuit Inspection"</u>.

				CAI	N DIAG SU	PPORT M	NTR							
oroon							Receive	diagnosis						DECUTE
screen	Initial diagnosis	Transmit diagnosis	ECM	I-KEY	тсм	BCM /SEC	DISPLAY	METER /M&A	STRG	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESOLIS
-	-	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	_
No indication	NG	UNKWN	-	-	-	-	-	I	_	-	UNKWN	1	CAN COMM CIRCUIT (U0000)	-
No indication	NG	UNKWN	UNKWN	UNKWN	_	-	_	UNKWN	_	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	_	-	-	UNKWN	-	-
No indication	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
No indication	NG	UNKWN	_	_	UNKWN	UNKWN	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	-
-	NG	UNKWN	-	-	-	-	-	-	_	-	UNKWN	-	CAN COMM CIRCUIT (U0000)	-
-	NG	UNKWN	-	-	UNKWN	-	-	-	_	UNKWN	-	-	CAN COMM CIRCUIT (U000)	-
No indication	-	UNKWN	UNKWN	_	_	UNKWN	-	_	_	-	-	-	CAN COMM CIRCUIT (U1000)	_
	indication No indication indication indication indication No indication No indication No indication	Image: margin state	Initial diagnosis         Irransmit diagnosis           —         —         UNKWN           No         —         UNKWN           No         NG         UNKWN           Indication         NG         UNKWN           No         NG         UNKWN           Indication         NG         UNKWN           No         NG         UNKWN           Mo         —         NG         UNKWN           No         —         UNKWN           —         NG         UNKWN           No         —         NG         UNKWN	Inima diagnosis         Iransmit diagnosis         ECM           —         —         UNKWN         —           No indication         —         UNKWN         UNKWN           No indication         NG         UNKWN         —           No indication         NG         UNKWN         —           No indication         NG         UNKWN         UNKWN           Mo indication         NG         UNKWN         UNKWN           No indication         —         UNKWN         UNKWN           No indication         NG         UNKWN         —           No         NG         UNKWN         —           No         —         NG         UNKWN         —	Initial     Iransmit     ECM     I-KEY       —     —     UNKWN     —     —       No     —     UNKWN     UNKWN     —       No     NG     UNKWN     UNKWN     —       No     NG     UNKWN     UNKWN     —       No     Indication     NG     UNKWN     UNKWN       Indication     NG     UNKWN     UNKWN     —       No     Indication     UNKWN     Indication     —       No     Indication     Indication     Indication     —       No     Indication     Indication     Indication     —       No     Indication     Indication     Indication     Indication       No     I			$ \frac{1}{10000000000000000000000000000000000$	Iminal diagnosis         Iransmin diagnosis         ECM         I-KEY         TCM         BCM /SEC         DISPLAY         METER /M&A           -         -         UNKWN         -         -         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         -         UNKWN         UNKWN         -	$ \frac{1}{10000000000000000000000000000000000$	$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Screen         Initial diagnosis         Transmit diagnosis         SELF-DIAC           Screen         Initial diagnosis         Transmit diagnosis         ECM         I-KEY         TCM         BCM /SEC         DISPLAY         METER         STRG         AWD/4WD         VDC/TCS         IPDM         SELF-DIAC           -         -         UNKWN         -         -         UNKWN         -         UNKWN         -         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         CAN COMM CIRCUT           No         -         UNKWN         -         -         -         -         -         -         CAN COMM CIRCUT           Indication         NG         UNKWN         -         -         -         -         -         CAN COMM CIRCUT         (U1000)         CAN COMM

## Revision: 2006 August

## **TROUBLE DIAGNOSIS FOR SYSTEM**

## Inspection Between TCM and Data Link Connector Circuit

- **1. CHECK HARNESS FOR OPEN CIRCUIT**
- 1 Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Disconnect ECM connector and harness connector M82.
- 4 Check continuity between harness connector and data link connector.

Harness connector		Data link	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M82	8	M24	6	Yes
WIOZ	9	10124	14	Yes

#### OK or NG

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

#### Inspection Between Data Link Connector and Driver Seat Control Unit Circuit NKS002L5

## **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).

LAN-157

- Harness connector M9
- Harness connector B2

#### OK or NG

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

## 2. CHECK HARNESS FOR OPEN CIRCUIT

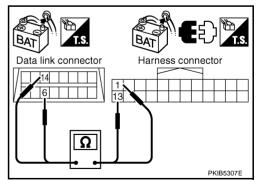
- Disconnect harness connector M9. 1.
- Check continuity between data link connector and harness con-2. nector.

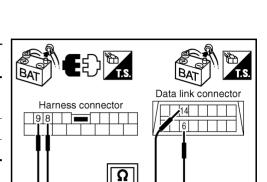
Data link connector		Harness	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M24	6	M9	1	Yes
10124	14	1013	13	Yes

#### OK or NG

>> GO TO 3. OK

NG >> Repair harness.





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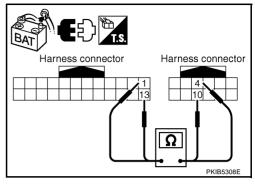
# $\overline{\mathbf{3}}$ . Check harness for open circuit

- 1. Disconnect harness connector B4.
- 2. Check continuity between harness connectors.

Harness connector		Harness	Harness connector	
Connector	Terminal	Connector Terminal		Continuity
B2	1	B4	4	Yes
62	13	54	10	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 AWD Control Unit Circuit

#### 1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- Check following terminals and connectors for damage, bend and loose connection (connector side and 3. harness side).
- Harness connector M9
- Harness connector B2
- Harness connector B4
- Harness connector E105

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

### 2. CHECK HARNESS FOR OPEN CIRCUIT

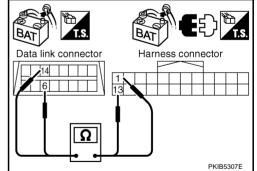
- Disconnect harness connector M9. 1.
- Check continuity between data link connector and harness con-2. nector.

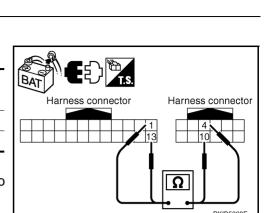
Data link connector		Harness	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M24	6	M9	1	Yes
11/24	14	1013	13	Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness.





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

- 1. Disconnect harness connector B4.
- 2. Check continuity between harness connectors.

Harness connector		Harness	Continuity	
Connector	Terminal	Connector	Connector Terminal	
B2	1	B4	4	Yes
DZ	13	D4	10	Yes

OK or NG

OK >> GO TO 4.

NG >> Repair harness.

### 4. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect AWD control unit connector.
- 2. Check continuity between harness connector and AWD control unit harness connector.

Harness connector		AWD control	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
E105	4	F111	8	Yes
ETUS	10		16	Yes

#### OK or NG

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

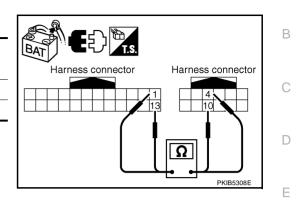
NG >> Repair harness.

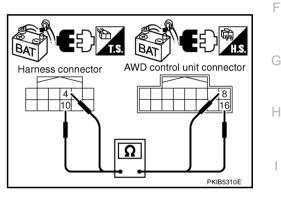
## Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit

- 1. CHECK CONNECTOR
- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
- Harness connector M9
- Harness connector B2
- Harness connector B4
- Harness connector E105

#### 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 harness connector M9.
- Check continuity between data link connector and harness connector.

Data link connector		Harness		
Connector	Terminal	Connector	Terminal	Continuity
M24	6	M9	1	Yes
10124	14	INI9	13	Yes

#### OK or NG

OK >> GO TO 3.

NG >> Repair harness.

## 3. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect harness connector B4.
- 2. Check continuity between harness connectors.

Harness connector		Harness	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
B2	1	B4	4	Yes	
DZ	13	D4	10	Yes	

#### OK or NG

OK >> GO TO 4.

NG >> Repair harness.

## 4. CHECK HARNESS FOR OPEN CIRCUIT

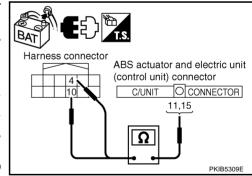
- 1. Disconnect ABS actuator and electric unit (control unit) connector.
- 2. Check continuity between harness connector and ABS actuator and electric unit (control unit) harness connector.

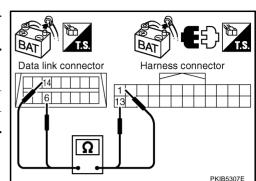
Harness	connector	ABS actuator and electric unit (control unit) connector		Continuity
Connector	Terminal	Connector	Terminal	
E105	4	F24	11	Yes
L 105	10	L24	15	Yes

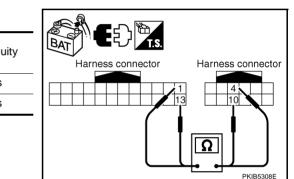
#### OK or NG

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

NG >> Repair harness.







#### Inspection Between Driver Seat Control Unit and AWD Control Unit Circuit А 1. CHECK CONNECTOR 1. Turn ignition switch OFF. В Disconnect the battery cable from the negative terminal. 2. Check following terminals and connectors for damage, bend and loose connection (connector side and 3. harness side). С Harness connector B4 Harness connector F105 OK or NG D OK >> GO TO 2. NG >> Repair terminal or connector. 2. CHECK HARNESS FOR OPEN CIRCUIT F 1. Disconnect harness connector B2 and harness connector B4. 2. Check continuity between harness connectors. F Harness connector Harness connector BAT

					Continuity
-	Connector	Terminal	Connector	Terminal	Continuity
-	B2	1	B4	4	Yes
_	DZ	13	D4	10	Yes

#### OK or NG

OK >> GO TO 3.

NG >> Repair harness.

## 3. CHECK HARNESS FOR OPEN CIRCUIT

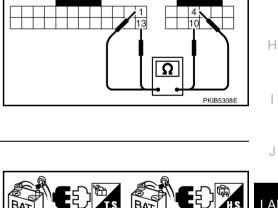
- Disconnect AWD control unit connector. 1.
- 2. Check continuity between harness connector and AWD control unit harness connector.

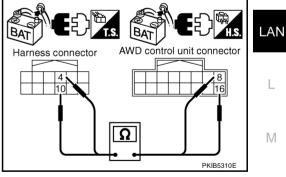
Harness	Harness connector		AWD control unit connector		
Connector	Terminal	Connector	Terminal	Continuity	
E105	4	F111	8	Yes	
E103	10		16	Yes	

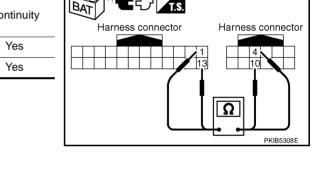
#### OK or NG

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

NG >> Repair harness.







## Inspection Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit

### 1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
- Harness connector B4
- Harness connector E105

#### OK or NG

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

## 2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect harness connector B2 and harness connector B4.
- 2. Check continuity between harness connectors.

Harness connector Harness		connector	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B2	1	B4	4	Yes
	13	54	10	Yes

#### OK or NG

OK >> GO TO 3.

NG >> Repair harness.

## 3. CHECK HARNESS FOR OPEN CIRCUIT

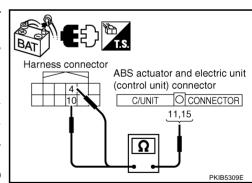
- 1. Disconnect ABS actuator and electric unit (control unit) connector.
- 2. Check continuity between harness connector and ABS actuator and electric unit (control unit) harness connector.

Harness	connector	ABS actuator and electric unit (control unit) connector		Continuity	
Connector	Terminal	Connector Terminal			
E105	4	F24	11	Yes	
E105	10	E24	15	Yes	

#### OK or NG

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

NG >> Repair harness.



Harness connector

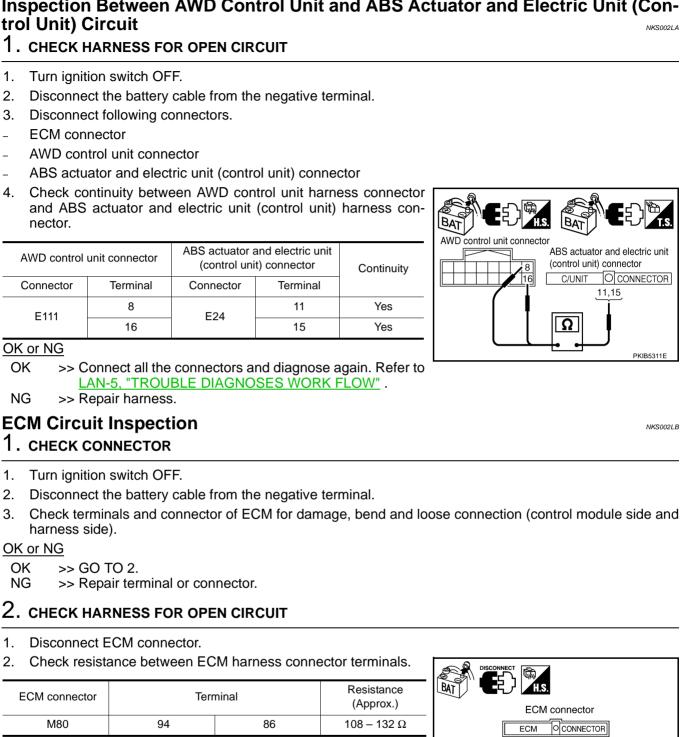
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Harness connector

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## Inspection Between AWD Control Unit and ABS Actuator and Electric Unit (Control Unit) Circuit



#### OK or NG

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1.

2.

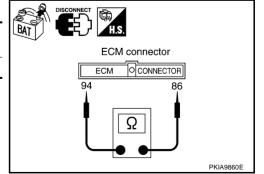
3.

1.

2.

OK >> Replace ECM.

NG >> Repair harness between ECM and BCM.



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## Intelligent Key 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 Intelligent Key unit for damage, bend and loose connection (unit side and harness side).

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

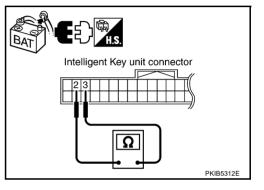
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

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

Intelligent Key unit connector	Terminal		Resistance (Approx.)
M99	2	3	54 – 66 Ω

#### OK or NG

- OK >> Replace Intelligent Key unit.
- NG >> Repair harness between Intelligent Key unit and BCM.



## **TCM 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).
- TCM connector
- Harness connector F102
- Harness connector M82

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

#### 2. CHECK HARNESS FOR OPEN CIRCUIT

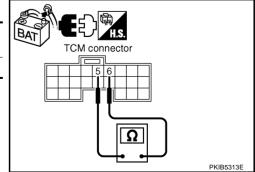
- 1. Disconnect TCM connector.
- 2. Check resistance between TCM harness connector terminals.

TCM connector	Terminal		Resistance (Approx.)
F103	5	6	54 – 66 Ω

OK or NG

OK >> Replace TCM.

NG >> Repair harness between TCM and BCM.



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#### [CAN] **BCM Circuit Inspection** NKS002LE А 1. CHECK CONNECTOR 1. Turn ignition switch OFF. В Disconnect the battery cable from the negative terminal. 2. Check terminals and connector of BCM for damage, bend and loose connection (control module side and 3. harness side). С OK or NG OK >> GOTO2NG >> Repair terminal or connector. D 2. CHECK HARNESS FOR OPEN CIRCUIT Disconnect BCM connector. 1. F 2. Check resistance between BCM harness connector terminals. Resistance BCM connector Terminal (Approx.) E BCM connector M34 39 54 – 66 Ω 40 OK or NG OK >> Replace BCM. Refer to BCS-14, "Removal and Installation of BCM". Ω NG >> Repair harness between BCM and harness connector Н M82. PKIB5314E **Display Control Unit Circuit Inspection** NKS002LF 1. CHECK CONNECTOR Turn ignition switch OFF. 1. J 2. Disconnect the battery cable from the negative terminal. 3. Check terminals and connector of display control unit for damage, bend and loose connection (control unit side and harness side). LAN OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

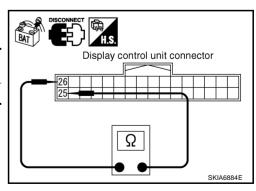
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

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

Display control unit connector	Terminal		Resistance (Approx.)
M43	25	26	54 – 66 Ω

#### OK or NG

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



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## **Data Link Connector Circuit Inspection**

## **1. CHECK CONNECTOR**

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

#### OK or NG

OK >> GOTO2

NG >> Repair terminal or connector.

#### 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Data link connector	Terminal		Resistance (Approx.)
M24	6	14	54 – 66 Ω

#### OK or NG

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

## Unified Meter and A/C Amp. Circuit Inspection

#### **1. CHECK CONNECTOR**

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

#### OK or NG

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

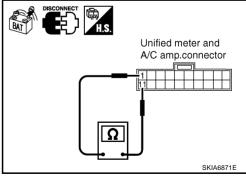
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

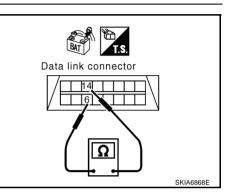
- Disconnect unified meter and A/C amp. connector. 1.
- 2. Check resistance between unified meter and A/C amp. harness connector terminals.

Unified meter and A/C amp. connec- tor	Terminal		Resistance (Approx.)
M49	1	11	54 – 66 Ω

#### OK or NG

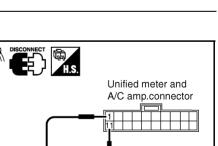
- OK >> Replace unified meter and A/C amp.
- NG >> Repair harness between unified meter and A/C amp. and data link connector.





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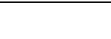
[CAN]



NG >> Repair harness between data link connector and unified meter and A/C amp.

[CAN] **Steering Angle Sensor Circuit Inspection** NKS002LI А 1. CHECK CONNECTOR 1. Turn ignition switch OFF. В 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 >> GOTO2NG >> Repair terminal or connector. 2. CHECK HARNESS FOR OPEN CIRCUIT Disconnect steering angle sensor connector. 1. F 2. Check resistance between steering angle sensor harness connector terminals. Steering angle Resistance E Terminal Steering angle sensor connector (Approx.) sensor connector M33  $54 - 66 \Omega$ 4 5 OK or NG OK >> Replace steering angle sensor. NG >> Repair harness between steering angle sensor and data Ω Н link connector. SKIA6870E **Driver Seat Control Unit Circuit Inspection** NKS002LJ **1. CHECK CONNECTOR** 1. Turn ignition switch OFF. J 2. Disconnect the battery cable from the negative terminal. 3. Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side). LAN Driver seat control unit connector Harness connector B301 Harness connector B9 OK or NG OK >> GO TO 2. NG >> Repair terminal or connector. Μ 2. CHECK HARNESS FOR OPEN CIRCUIT Disconnect driver seat control unit connector. 1. 2. Check resistance between driver seat control unit harness connector terminals. Driver seat control Resistance Driver seat control unit connector Terminal unit connector (Approx.) 3 B303 3 19 54 – 66 Ω 10 OK or NG OK >> Replace driver seat control unit. >> Repair harness between driver seat control unit and har-Ω NG

>> Repair namess between driver seat cont ness connector B4.



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## AWD Control Unit Circuit Inspection

## 1. CHECK CONNECTOR

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

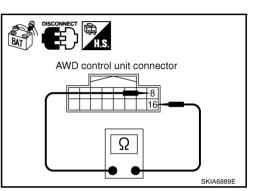
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

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

AWD control unit connector	Terminal		Resistance (Approx.)
E111	8	16	54 – 66 Ω

#### OK or NG

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



## ABS Actuator and Electric Unit (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 ABS actuator and electric unit (control unit) for damage, bend and loose connection (control unit side and harness side).

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

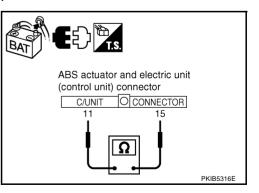
#### 2. CHECK HARNESS FOR OPEN CIRCUIT

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

ABS actuator and electric unit (con- trol unit) connector	Terminal		Resistance (Approx.)
E24	11	15	54 – 66 Ω

#### OK or NG

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



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

#### **1. CHECK CONNECTOR**

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

#### OK or NG

OK >> GOTO2

NG >> Repair terminal or connector.

#### 2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

#### OK or NG

OK >> Replace IPDM E/R.

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

## **CAN Communication Circuit Inspection**

#### **1. CHECK CONNECTOR**

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

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector as necessary.

#### 2. CHECK HARNESS FOR SHORT CIRCUIT

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

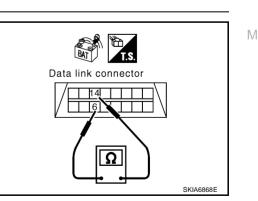
connector	Terminal		Continuity
M24	6	14	No

#### OK or NG

OK >> GO TO 3.

NG >> • Repair harness.

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



IPDM E/R connector 4948

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Revision: 2006 August

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## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity	between data linl	< connector termin	nals and ground.	
Data link connector	Terminal		Continuity	[
M24	6	Ground	No	
	14		No	
OK or NG				

#### OK OF NG

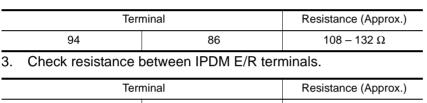
OK >> GO TO 4.

- NG >> • Repair harness.
  - Replace harness if shielded lines are used for the harness.

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

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

Check resistance between ECM terminals. 2



Terminal		Resistance (Approx.)
48	49	108 – 132 Ω

#### OK or NG

OK >> GO TO 5.

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

## 5. CHECK SYMPTOM

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

#### Check results

Reproduced>>GO TO 6.

Not reproduced>>Refer to LAN-15, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced".

## 6. UNIT REPRODUCIBILITY INSPECTION

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

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

#### NOTE:

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

#### Inspection results

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

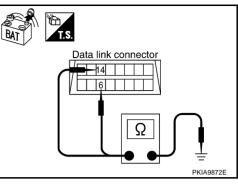
## IPDM E/R Ignition Relay Circuit Inspection

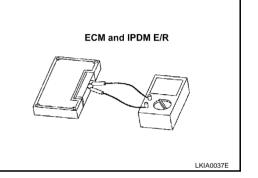
Check the following. If no malfunction is found, replace the IPDM E/R.

## LAN-170



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	[CAN]
IPDM E/R power supply circuit. Refer to PG-26, "IPDM E/R Power/Ground Circuit Inspection".	
Ignition power supply circuit. Refer to <u>PG-10, "IGNITION POWER SUPPLY — IGNITION SW.</u> <u>AND/OR "START""</u> .	<u>IN "ON"</u>