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MODIFICATION NOTICE ......2

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## MODIFICATION NOTICE

MODIFICATION NOTICE

PFP:00000

**Information** 

Both "AWD" and "4WD" are used in this manual. These indicate the same system.

### **Major Modification Item**

AKS00HKO

The following descriptions are about the change of CAN communication units.

[CAN]

**PRECAUTIONS** PFP:00001

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

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

**WARNING:** 

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

### Precautions When Using CONSULT-II

AKS008B6

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

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

#### CHECK POINTS FOR USING CONSULT-II

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

#### **Precautions for Trouble Diagnosis CAN SYSTEM**

AKS008B7

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

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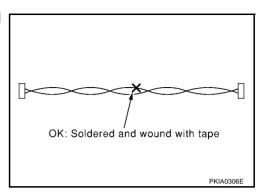
www.cargeek.ir

## PRECAUTIONS

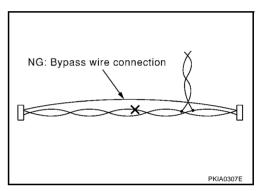
## Precautions for Harness Repair CAN SYSTEM

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



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



### TROUBLE DYAGNOSES WORK FLOW

[CAN]

#### TROUBLE DIAGNOSES WORK FLOW

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

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

#### WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

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

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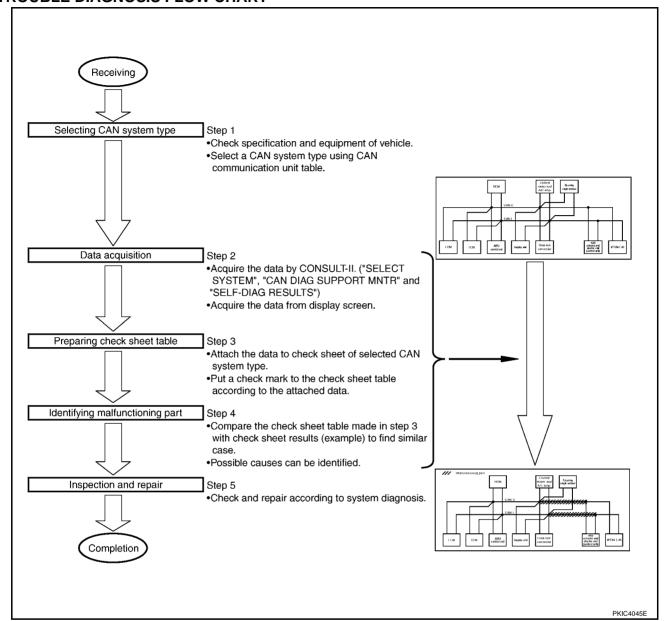
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#### TROUBLE DIAGNOSIS FLOW CHART



- Step 1: Refer to <u>LAN-7</u>, "<u>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 <u>LAN-9</u>, "HOW TO USE CHECK SHEET TABLE".
- Step 4: Refer to LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- Step 5: Refer to LAN-84, "TROUBLE DIAGNOSIS FOR SYSTEM".

## TROUBLE DYAGNOSES WORK FLOW

[CAN]

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

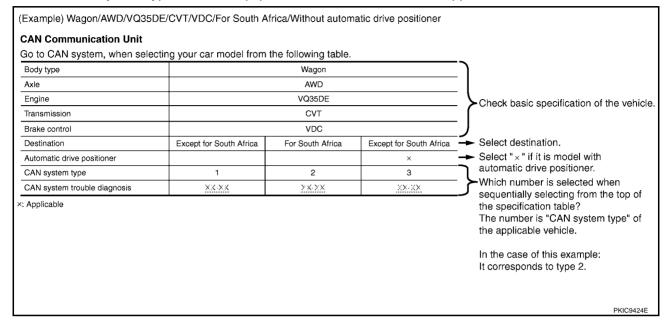
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Determine CAN system type from the equipment of the vehicle to select applicable check sheet.



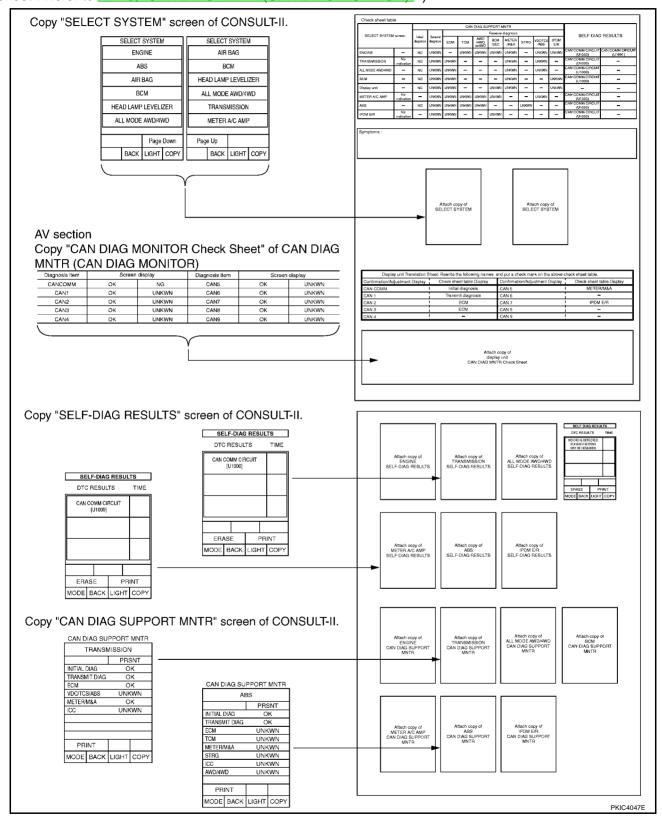
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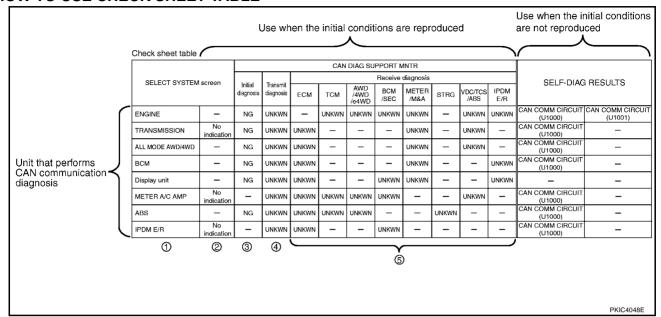
#### **ACQUISITION OF DATA BY CONSULT-II**

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 MONITOR Check Sheet". Refer to AV-49, "CAN DIAG MNTR (CAN DIAG MONITOR)".)



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#### **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 not used (Initial diagnosis is not performed.)

#### NOTE

It is unnecessary to replace ABS actuator and electric unit (control unit) whenever "NG" on "INITIAL DIAG" of "ABS" is indicated. "NG" is indicated not only when malfunctioning ABS actuator and electric unit (control unit) but also other parts. See check sheet results for the system diagnosis.

- "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:

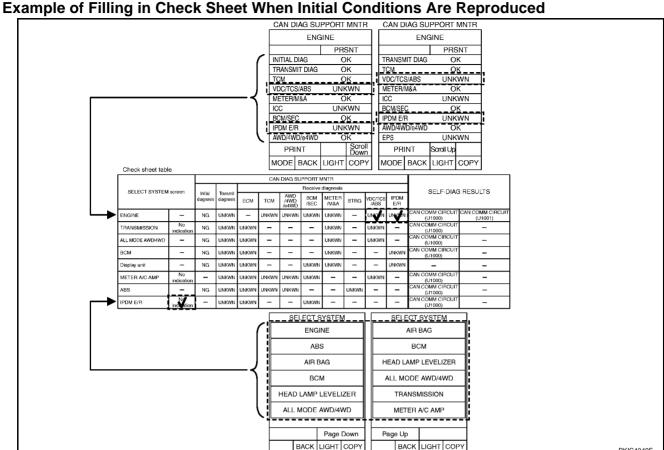
Revision: 2006 December

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

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

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

#### NOTE:

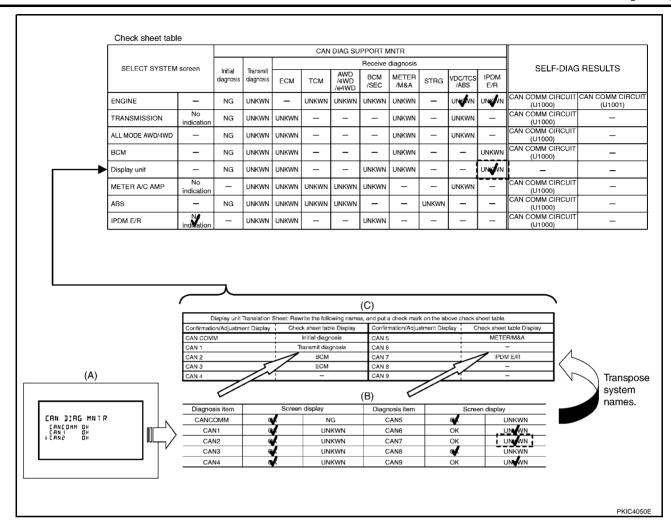
Put a check mark to "No indication" of IPDM E/R because IPDM E/R is not displayed on "SELECT SYS-TEM" screen.

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", "ICC", "IPDM E/R" and "EPS". But put a check mark to "VDC/TCS/ABS" and "IPDM E/R" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

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3. For display unit, put a check mark in the following procedure.

#### NOTE

- Display unit cannot acquire data with CONSULT-II.
- Display unit uses on board self-diagnosis function with display unit of vehicle and acquires data.
- Copy to "CAN DIAG MONITOR Check Sheet" (B) from the display screen (A). Refer to <u>AV-49</u>, "CAN DIAG <u>MNTR (CAN DIAG MONITOR)"</u>.
- b. Read "CAN DIAG MONITOR Check Sheet" (B) with "Display unit Translation Sheet" (C).
- Check "UNKWN" with a check mark. Put a check mark to the check sheet table.

#### NOTE:

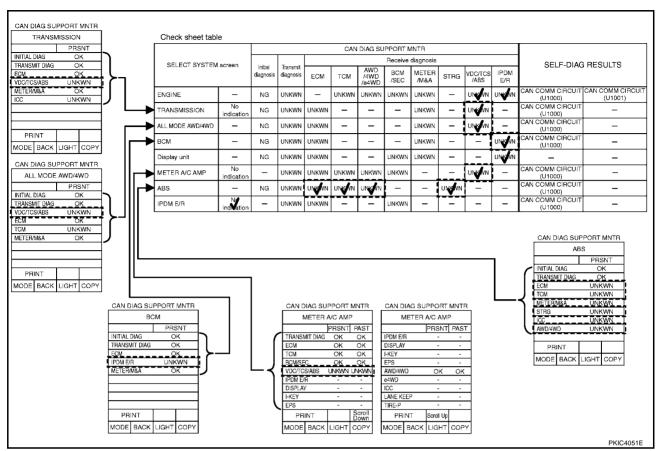
In "CAN DIAG MONITOR Check Sheet" (B), check marks are put to "CAN6", "CAN7" and "CAN9". But, in the column of the check sheet table indication in "Display unit Translation Sheet" (C), "IPDM E/R" is listed only for "CAN7". Therefore, put a check mark to "IPDM E/R" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

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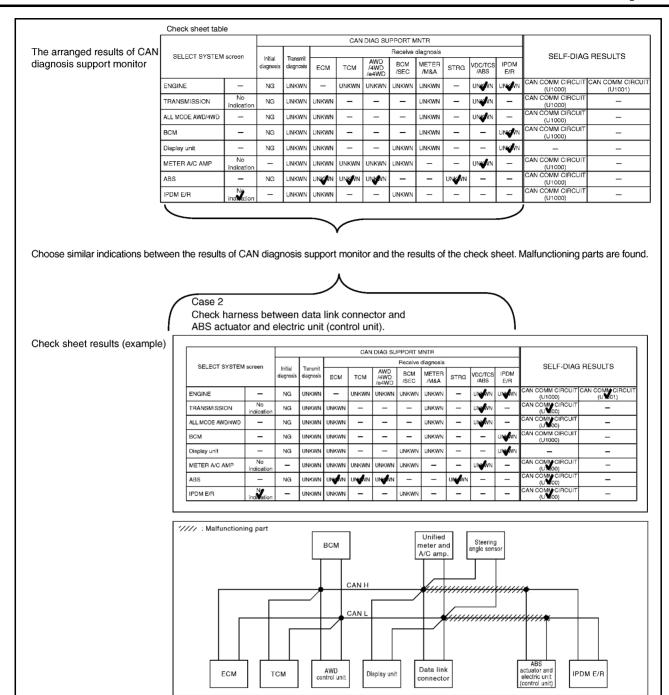
4. Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "TRANSMISSION", "ALL MODE AWD/4WD", "BCM", "METER A/C AMP" and "ABS" as well as "ENGINE". And then, put a check mark to the check sheet table.

#### NOTE:

- 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 "ALL MODE AWD/4WD", "UNKWN" is displayed on "VDC/TCS/ABS" and "TCM". 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.
- For "METER A/C AMP", "UNKWN" is displayed on "VDC/TCS/ABS". Put a check mark to it.
- For "ABS", "UNKWN" is displayed on "ECM", "TCM", "METER/M&A", "STRG", "ICC" and "AWD/4WD".
   But put a check mark to "ECM", "TCM", "STRG" and "AWD/4WD" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

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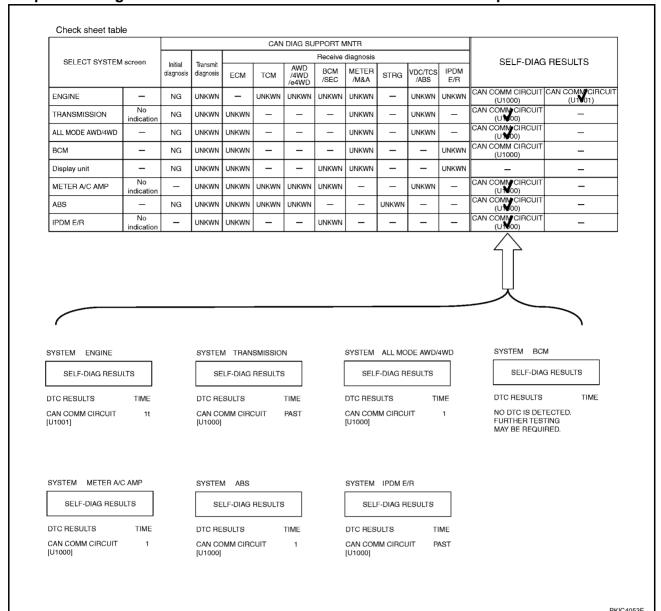
#### NOTE:

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.

- Perform system diagnosis for possible causes identified.
- 6. 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  $\underline{\text{LAN-28}}$ , "CAN Communication Unit".

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



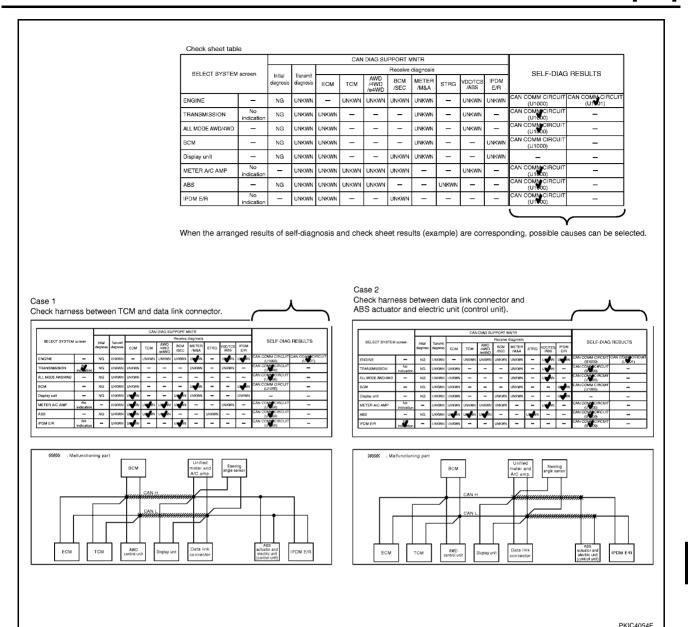
 See "SELF-DIAG RESULTS" of all units attached to the check sheet. If "CAN COMM CIRCUIT", "CAN COMM CIRCUIT [U1000]" or "CAN COMM CIRCUIT [U1001]" is displayed, put a check mark to the applicable column of self-diagnostic results of the check sheet table.

#### NOTE:

- For "ENGINE", "CAN COMM CIRCUIT [U1001]" is displayed. Put a check mark to it.
- For "TRANSMISSION", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "ALL MODE AWD/4WD", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "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 "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.

## TROUBLE DYAGNOSES WORK FLOW

[CAN]



#### NOTE:

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

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

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### **CAN COMMUNICATION**

### **System Description**

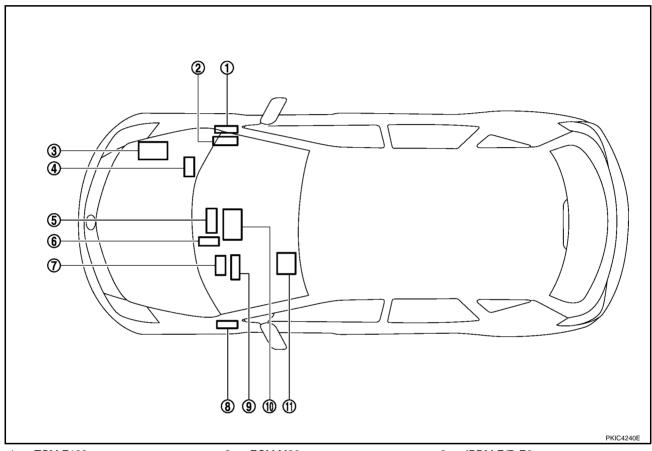
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CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped 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 LHD MODEL**

AKS00FI4



- 1. TCM F103
- 4. ABS actuator and electric unit (control unit) E24
- 7. Data link connector M24
- 10. Unified meter and A/C amp. M49
- 2. ECM M80
- 5. Display unit M39
- AWD control unit E111
- 11. Driver seat control unit B303
- 3. IPDM E/R E9
- 6. BCM M37
- 9. Steering angle sensor M33

**Schematic** AKS00FI5 LHD MODEL IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) 49 ON : Without NAVI CPU 48 ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) 5 4WD CONTROL UNIT 9 DRIVER SEAT CONTROL UNIT 9 STEERING ANGLE SENSOR UNIFIED METER AND A/C AMP. DATA LINK CONNECTOR 4 8 NO DISPLAY UNIT 9 4 TCM (TRANSMISSION CONTROL MODULE) BCM (BODY CONTROL MODULE) 7 20 DATA LINE DATA LINE 86 8

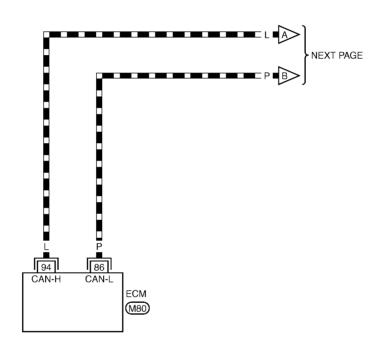
TKWB2494E

# Wiring Diagram — CAN — LHD MODEL

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### LAN-CAN-01

: DATA LINE



REFER TO THE FOLLOWING. M80 -ELECTRICAL UNITS

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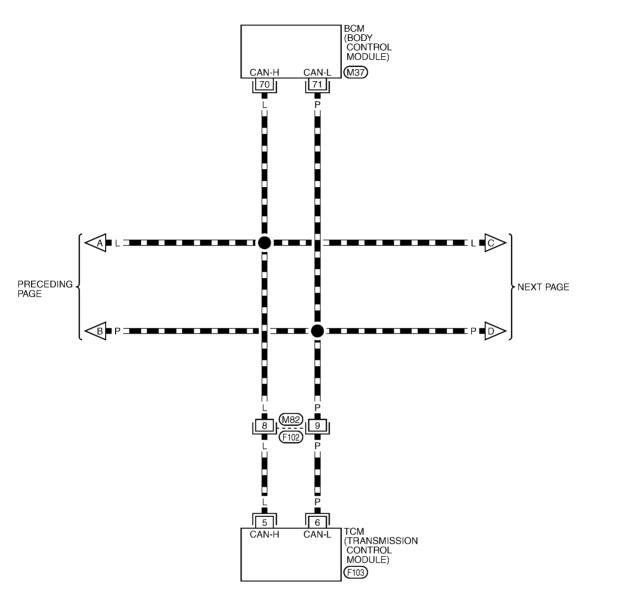
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### LAN-CAN-02

: DATA LINE



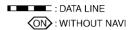
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 W

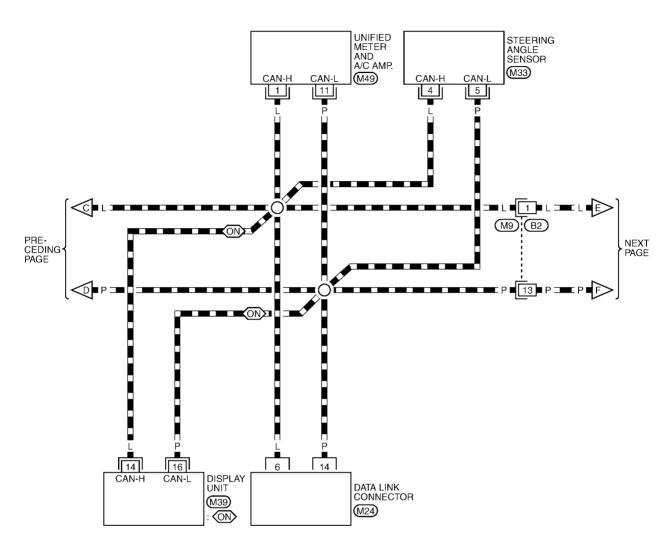
REFER TO THE FOLLOWING. (M37), (F103) -ELECTRICAL UNITS

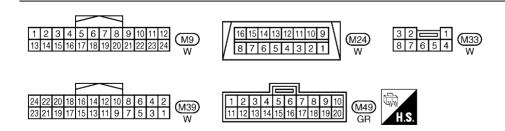
TKWB2744E

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### LAN-CAN-03







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### LAN-CAN-04

: DATA LINE

PRECEDING PAGE

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BB9

L/Y

BR/W

CAN-H

CAN-L

DRIVER SEAT

CONTROL UNIT

(B303)

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19	3	1			17	6	40	33	
			32	48	50	63	62	33 21	(BA)
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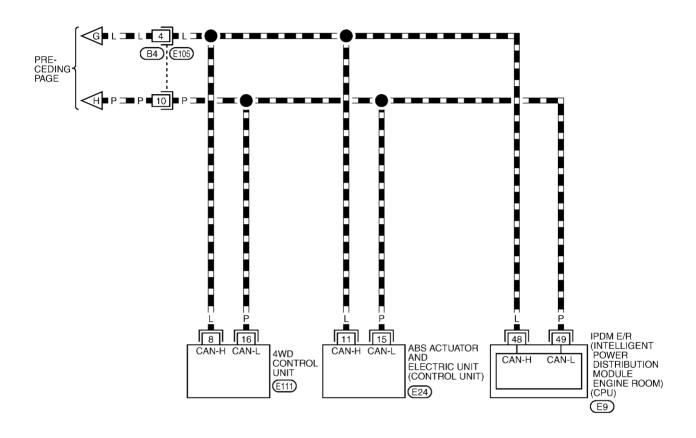
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17		1	_	_	_	_						
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	9 8 7 6 5 4 3 2 1	T	7	8	9	10	11	12	13	14	15	16
	25 24 23 22 21 20 19 18 17 B303	2	23	24	25	26	27	28	29	30	31	32

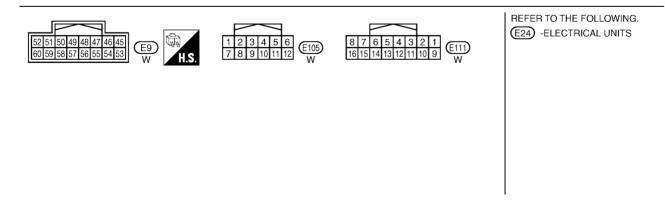
\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWB2745E

## LAN-CAN-05

: DATA LINE





TKWB2746E



### **CAN Communication Unit**

AKS008ZU

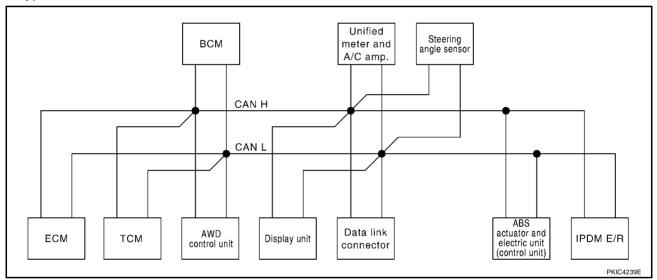
Go to CAN system, when selecting your car model from the following table.

Body type		Wagon								
Axle		AWD								
Engine		VQ35DE								
Transmission		CVT								
Brake control	VDC									
Destination	Except for South Africa	For South Africa	Except for South Africa							
Automatic drive positioner			×							
CAN system type	1	2	3							
CAN system trouble diagnosis	<u>LAN-30</u>	<u>LAN-47</u>	<u>LAN-64</u>							

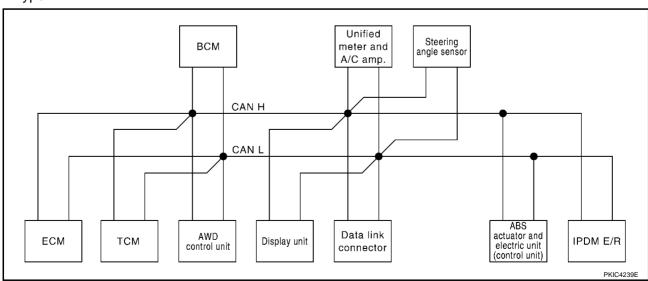
<sup>×:</sup> Applicable

## TYPE 1/TYPE 2/TYPE 3 System Diagram

#### Type 1



### Type 2



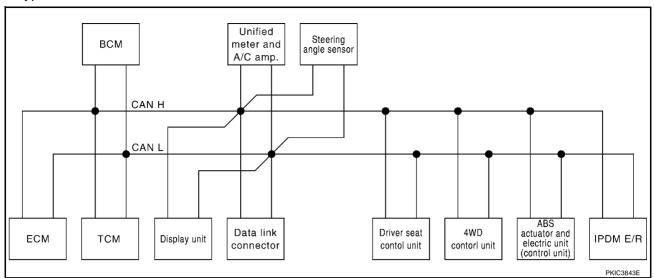
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CAN SYSTEM (TYPE 1)

### [CAN]

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**CAN SYSTEM (TYPE 1)** 

**Component Parts and Harness Connector Location** 

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Refer to LAN-16, "Component Parts and Harness Connector Location" .

Schematic

Refer to LAN-18, "Schematic".

Wiring Diagram — CAN —

AKS00FIB

Refer to LAN-20, "Wiring Diagram — CAN —" .

Check Sheet

Refer to LAN-31, "Check Sheet".

AKS00FIC

### NOTE:

**Check Sheet** 

Revision: 2006 December

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

					CAN	DIAG SU	IPPORT M	INTR						
SELECT SYSTEM	l coroon						Receive	diagnosis				SELE-DIAG	RESULTS	
SEELOT STSTEM	1 5018811	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TILOULIU	
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_	
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_	
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_	
Display 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	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	_	

Symptoms:		

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

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

Attach copy of display unit CAN DIAG MNTR Check Sheet

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Attach copy of ENGINE SELF-DIAG RESULTS Attach copy of TRANSMISSION SELF-DIAG RESULTS Attach copy of ALL MODE AWD/4WD SELF-DIAG RESULTS Attach copy of BCM SELF-DIAG RESULTS

Attach copy of METER A/C AMP SELF-DIAG RESULTS Attach copy of ABS SELF-DIAG RESULTS

Attach copy of IPDM E/R SELF-DIAG RESULTS

Attach copy of ENGINE CAN DIAG SUPPORT MNTR Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR Attach copy of ALL MODE AWD/4WD CAN DIAG SUPPORT MNTR Attach copy of BCM CAN DIAG SUPPORT MNTR

Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR Attach copy of ABS CAN DIAG SUPPORT MNTR Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

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## CAN SYSTEM (TYPE 1)

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

#### NOTE:

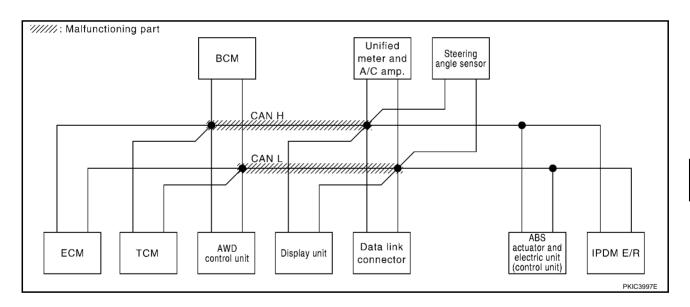
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

#### Case 1

Revision: 2006 December

Check harness between TCM and data link connector. Refer to LAN-84, "Inspection CAN Main Line Circuit" .

					CAN	DIAG SU	PPORT M	INTR				SELF-DIAG RESULTS		
SELECT SYSTEM	Lecroon						Receive	diagnosis						
OLLLOT GTGTLIN	Surcen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	GEE -BIAC		
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNIWN	-	UNI WN	UNIWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 1001)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_	
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_	
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	=	
Display unit	_	NG	UNKWN	UNK <b>W</b> N	_	_	UNK <b>W</b> N	UNKWN	_	_	UNKWN	_	_	
METER A/C AMP	No indication	_	UNKWN	UNK <b>W</b> N	UNKWN	UNION	UN <b>W</b> N	_	_	UNKWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	-	
ABS	_	NG	UNKWN	UN <b>W</b> N	UNION	UNI <b>W</b> N	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U <b>N</b> 00)	-	
IPDM E/R	No indication	_	UNKWN	UN <b>K∕</b> WN	_	_	UNK <b></b> ₩N	_	_	_	_	CAN COMM CIRCUIT (UN00)	_	



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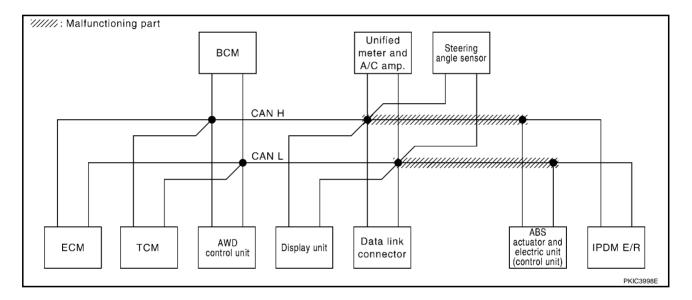
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## CAN SYSTEM (KYPE 1)

Case 2
Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-84</u>, "Inspection CAN Main Line Circuit".

					CAN	DIAG SU	PPORT M	INTR						
SELECT SYSTEM	screen	1-10-1	T				Receive	diagnosis				SELF-DIAG	RESULTS	
OLLEGY GYGYEM	Gorcon	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R			
ENGINE	_	NG	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	ı	UNI WN	UNIWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 1001)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNIWN	_	CAN COMM CIRCUIT (U 1000)	_	
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	1	_	_	UNKWN	_	UNIWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_	
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN		_	UNKWN	ı	_	UNIWN	CAN COMM CIRCUIT (U1000)	_	
Display unit	_	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	UNIWN	_	_	
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNIWN	_	CAN COMM CIRCUIT (U 1000)	_	
ABS	_	NG	UNKWN	UN <b>W</b> N	UNKWN	UNION	_	_	UNIWN	_	_	CAN COMM CIRCUIT (U <b>N</b> 00)	-	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT	_	



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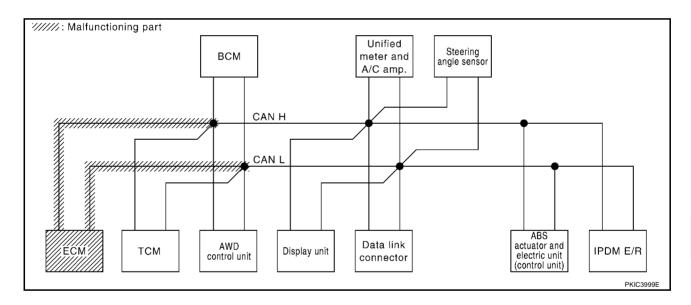
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Case 3
Check ECM circuit. Refer to LAN-84, "Inspection CAN Branch Line Circuit (For ECM or IPDM E/R Circuit)" .

					CAN	DIAG SU	PPORT M	INTR						
SELECT SYSTEM	screen	1-95-1	T				Receive	diagnosis				SELE-DIAG	G RESULTS	
OLLEGY GYGYEM	Gorcon	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OEEI BINC		
ENGINE	_	NG	UN <b>∜</b> WN	_	UNK WN	UNKWN	UN <b>K</b> ₩N	UNI WN	_	UNIWN	NMANN	CAN COMM CIRCUIT (U <b>N</b> 00)	CAN COMM CIRCUI (U 1001)	
TRANSMISSION	No indication	NG	UNKWN	UN <b>W</b> N	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_	
ALL MODE AWD/4WD	_	NG	UNKWN	UN <b>W</b> N	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U 100)	_	
ВСМ	No indication	NG	UNKWN	UN <b>W</b> N	UNKWN	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_	
Display unit	_	NG	UNKWN	UNK WN	_	_	UNKWN	UNKWN	-	1	UNKWN	_	_	
METER A/C AMP	No indication	_	UNKWN	UN <b>K</b> WN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	1	CAN COMM CIRCUIT (U <b>N</b> 00)	_	
ABS	_	NG	UNKWN	UN <b>W</b> N	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U 1000)	=	
IPDM E/R	No indication	_	UNKWN	UN <b>W</b> N	_	_	UNKWN	_	_		_	CAN COMM CIRCUIT (U 1000)	_	



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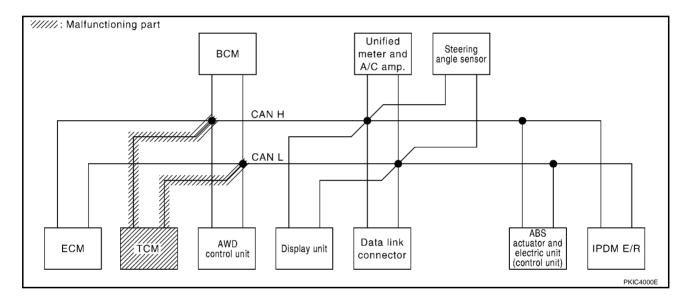
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## CAN SYSTEM (TYPE 1)

Case 4
Check TCM circuit. Refer to LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

					CAN	DIAG SU	IPPORT M	INTR						
SELECT SYSTEM	ecroon		<b>-</b> "				Receive	diagnosis				SELE-DIAG	G RESULTS	
GEELOT GTGTEIN	30/00//	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R			
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U <b>N</b> 00)	CAN COMM CIRCU (U <b>1</b> 001)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U 100)	_	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	ı	_	UNKWN	ı	UNKWN	-	CAN COMM CIRCUIT (U1000)	_	
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	1	_	UNKWN	ı	_	UNKWN	CAN COMM CIRCUIT (U1000)	_	
Display 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	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U 1000)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_	

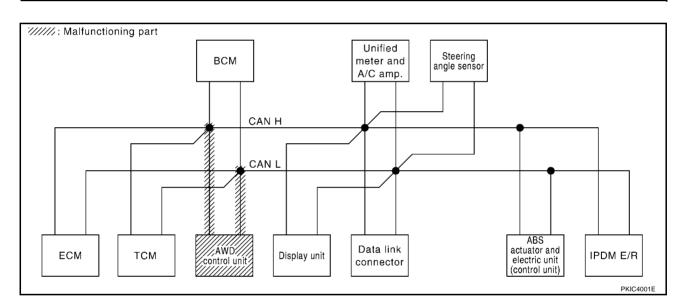


## CAN SYSTEM (KYPE 1)

Case 5

Check AWD control unit circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and <u>IPDM E/R Circuit)"</u>.

			CAN										
SELECT SYSTEM screen							Receive		SELF-DIAG RESULTS				
		Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	E/R		
ENGINE	_	NG	UNKWN	-	UNKWN	UNION	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNK <b>W</b> N	_	_	_	_	_	_	1	_	CAN COMM CIRCUIT (U 100)	_
всм	No indication	NG	UNKWN	UNKWN	UNKWN		_	UNKWN	ı	-	UNKWN	CAN COMM CIRCUIT (U1000)	ı
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	-	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNION	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNION	_	_	UNKWN	-	_	CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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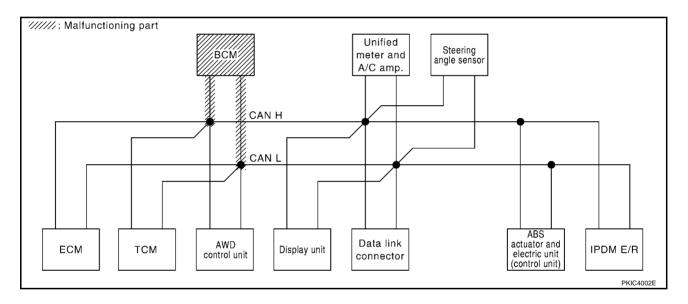
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## CAN SYSTEM (TYPE 1)

Case 6
Check BCM circuit. Refer to LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

SELECT SYSTEM screen		1-79-1	Transmit diagnosis				Receive	SELF-DIAG RESULTS					
		Initial diagnosis		ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	SEEL BING NEGGETO	
ENGINE	_	NG	UNKWN	-	UNKWN	UNKWN	UN <b>W</b> N	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN		_	-	UNKWN	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	1	ı	ı	UNKWN	ı	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	UNKWN	1	1	UNKWN	ı		UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNK <b>W</b> N	UNKWN	-	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UN <b>W</b> N	_	_	UNKWN	_	CAN COMM CIRCUIT (U <b>10</b> 00)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UN <b>W</b> N	_	_	_	_	CAN COMM CIRCUIT (U 1000)	_

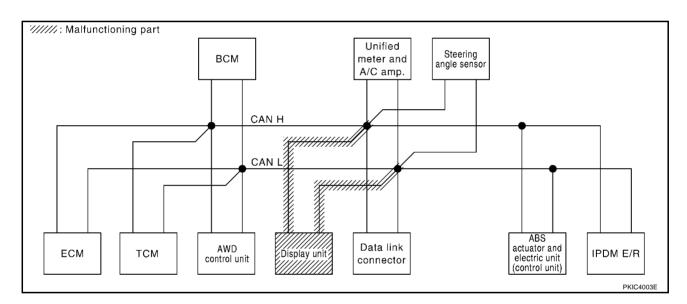


## CAN SYSTEM (KYPE 1)

Case 7

Check display unit circuit. Refer to LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)" .

SELECT SYSTEM screen							Receive	SELF-DIAG RESULTS					
		Initial diagnosis	Transmit diagnosis	ECM TCM		AWD /4WD /e4WD /SEC		METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	SELI-DIAG NEGOLIS	
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNK <b>W</b> N	_	_	UN <b>KW</b> N	Π <b>Μ</b> ΜΝ	_	_	UNIWN	_	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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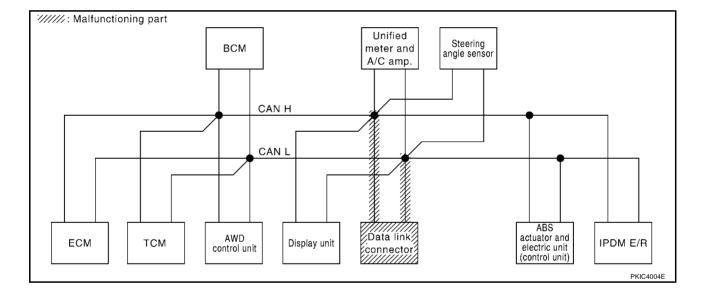
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## CAN SYSTEM (TYPE 1)

Case 8
Check data link connector circuit. Refer to <u>LAN-85</u>, "Inspection Data Link Connector Circuit" .

SELECT SYSTEM screen		1-22-1	T				Receive	SELF-DIAG RESULTS					
		Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	CELI -BIAG NEGGETO	
ENGINE	_	NG	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display 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	UNKWN	UNKWN	_	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

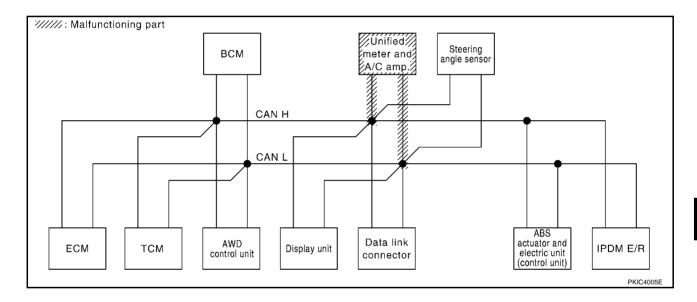


## CAN SYSTEM (TYPE 1)

Case 9

Check unified meter and A/C amp. circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for <u>ECM and IPDM E/R Circuit)"</u>.

SELECT SYSTEM screen							Receive	SELF-DIAG RESULTS					
		Initial diagnosis	Transmit diagnosis	ECM TCM		AWD /4WD BCM /e4WD /SEC		METER /M&A	STRG	VDC/TCS /ABS	E/R		
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNIWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNI WN	_	UNKWN	_	CAN COMM CIRCUIT (U 100)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNIWN	_	UNKWN	_	CAN COMM CIRCUIT (U 100)	_
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	UNIWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNI WN	_	-	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_
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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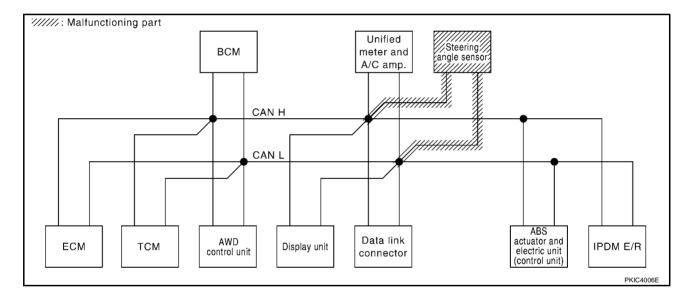
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# CAN SYSTEM (KYPE 1)

Case 10

Check steering angle sensor circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)" .

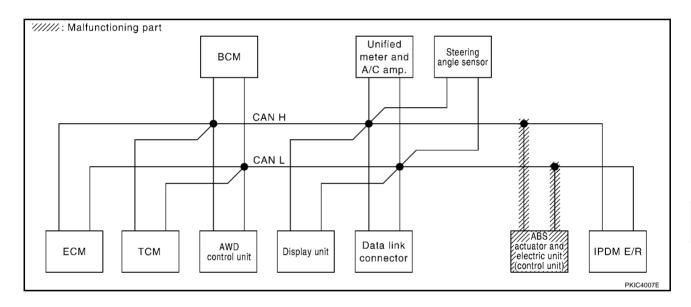
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecraan		<b>-</b> "				Receive	diagnosis				SELF-DIAG	RESULTS
GEEEOT GTGTEIN	30/00//	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TILOULIO
ENGINE	_	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	1	_	_	UNKWN	1	UNKWN	ı	CAN COMM CIRCUIT (U1000)	ı
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	_	_	UNKWN	-	UNKWN	ı	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	1	_	UNKWN	CAN COMM CIRCUIT (U1000)	I
Display 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	UNKWN	UNKWN	_	_	UNIWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



Case 11

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	DECILITO
SELECT STSTEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	GELI-DIAC	THESOLIS
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNIWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNIWN	_	CAN COMM CIRCUIT (U 100)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNIWN	_	CAN COMM CIRCUIT (U 100)	_
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	-	UNKWN	_	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNIWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ABS	_	V	UN <b>W</b> N	UN <b>W</b> N	UNION	UNION	_	_	UNIWN	_	_	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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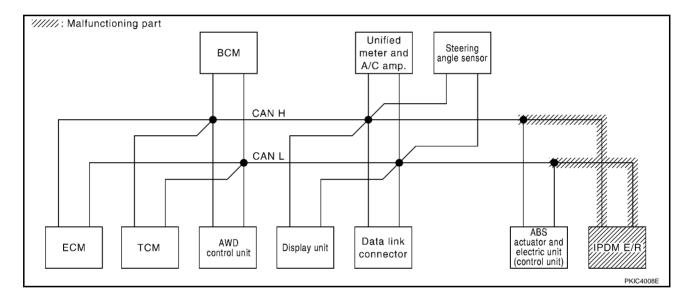
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Case 12
Check IPDM E/R circuit. Refer to LAN-84, "Inspection CAN Branch Line Circuit (For ECM or IPDM E/R Circuit)".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	RESULTS
OLLLO1 O101LIN	Surcen	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNIWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	UNIWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	-	UNIWN	_	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U 1000)	_



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Case 13

Check CAN communication circuit. Refer to LAN-85, "CAN Communication Circuit Inspection".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELE-DIAG	RESULTS
OLLLO1 G1G1LW	3010011	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TIEGOLIO
ENGINE	_	NG	UN <b>∳</b> NN	-	UNWN	UNWWN	UN <b>W</b> N	UNIWN	_	UNIWN	UNIWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	ı	ı	ı	ı	ı	_	ı	ı	CAN COMM CIRCUIT (U 1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	1	ı	UNKWN	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	I
Display unit	_	NG	UNKWN	UNKWN	ı	ı	UNKWN	UNIWN	_	ı	UNIWN	_	ı
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	1	_	UNKWN	ı	CAN COMM CIRCUIT (UN00)	1
ABS	_	<b>V</b>	UNK <b>W</b> N	UN <b>W</b> N	UNKWN	UNKWN	_	_	UNHWN	_	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	ı	CAN COMM CIRCUIT	_

#### Case 14

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-87</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection"</u>.

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	DECILITO
OLLLOT GTGTLIN	Sorcen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	THEODEIO
ENGINE	_	NG	UNKWN	-	UNKWN	UNION	UNKWN	UNKWN	ı	UNIWN	UNKWN	CAN COMM CIRCUIT (U <b>N</b> 00)	CAN COMM CIRCUI (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	-	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNION	UNKWN	_	_	UNIWN	-	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	_

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### Case 15

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-87</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection"</u>.

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	RESULTS
GEEGIGIGIEN	Sorcen	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	THEODETO
ENGINE	_	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	ı	_	1	ı	1	İ	UNKWN	1	CAN COMM CIRCUIT (UN00)	I
ALL MODE AWD/4WD	_	NG	UNKWN	ı	_	ı	ı	ı	ı	UNKWN	ı	CAN COMM CIRCUIT (UN00)	1
ВСМ	No indication	NG	UNKWN	UNKWN	UNKWN	1	ı	UNKWN	İ	_	UNKWN	CAN COMM CIRCUIT (U1000)	ı
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	_	UNKWN	UNKWN	_	_	_	_	1	CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_

01 (1 1 · = =)	[CAN]	
CAN SYSTEM (TYPE 2)	PFP:23710	
Component Parts and Harness Connector Location	AKS00FIJ	А
Refer to LAN-16, "Component Parts and Harness Connector Location".		
Schematic	AKS00FIK	В
Refer to LAN-18, "Schematic".		
Wiring Diagram — CAN —	AKS00FIL	С
Refer to LAN-20, "Wiring Diagram — CAN —"		
Check Sheet	AKS00HKE	D
Refer to LAN-48, "Check Sheet" .		
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**Check Sheet** 

NOTE: If a check

	9					=:400:							
					CAN	DIAG SU	PPORT N	MNTR diagnosis					
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
FRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	1	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
PDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	<b> </b>	-	_	_	CAN COMM CIRCUIT (U1000)	_
				ttach co						ach copy CT SYS			
Confirmation/Adj				eck she	et table	Display	, C	onfirma					table Display
CAN COMM CAN 1			!		diagno: nit diagn			CAN 5 CAN 6				<del>-</del>	R/M&A _
CAN 2			; 1 1		BCM	0010		CAN 7				<u> </u>	M E/R
CAN 3					ECM			AN 8				<del>-</del>	_
CAN 4			1 1 1		_		C	AN 9					_
							ttach co						

www.**Anges**k.ir Revision: 2006 December Z50

Attach copy of ENGINE SELF-DIAG RESULTS

Attach copy of TRANSMISSION SELF-DIAG RESULTS

Attach copy of ALL MODE AWD/4WD SELF-DIAG RESULTS

Attach copy of всм SELF-DIAG RESULTS

Attach copy of METER A/C AMP SELF-DIAG RESULTS

Attach copy of ABS SELF-DIAG RESULTS

Attach copy of IPDM E/R SELF-DIAG RESULTS

Attach copy of ENGINÉ CAN DIAG SUPPORT MNTR

Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR

Attach copy of ALL MODE AWD/4WD CAN DIAG SUPPORT MNTR

Attach copy of всм CAN DIAG SUPPORT **MNTR** 

Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR

Revision: 2006 December

Attach copy of ABS CAN DIAG SUPPORT MNTR

Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

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

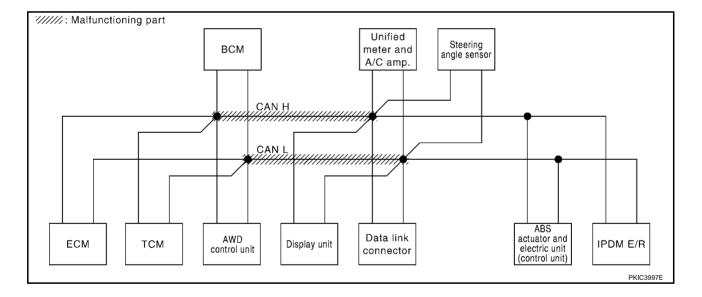
#### NOTE:

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

#### Case 1

Check harness between TCM and data link connector. Refer to LAN-84, "Inspection CAN Main Line Circuit".

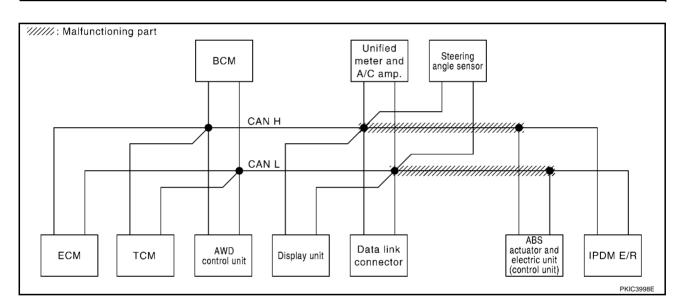
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	l ecreen		<b>-</b> "				Receive	diagnosis				SELF-DIAG	RESULTS
GEELOT STOTEM	Surcen	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	GEE -DIAC	THEODEIG
ENGINE	_	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	UNIWN	_	UNIWN	UNIWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	ı	ı	_	ı	ı	ı	_	CAN COMM CIRCUIT (UN00)	-
ВСМ	_	NG	UNKWN	UNKWN	-	_	_	UNWWN		_	UNIWN	CAN COMM CIRCUIT (U1000)	-
Display unit	_	NG	UNKWN	UNK WN	_	_	UN <b>KW</b> N	UNKWN	_	_	UNKWN	_	-
METER A/C AMP	No indication	_	UNKWN	UN <b>W</b> N	UNKWN	UNION	UN <b>W</b> N	_	_	UNKWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ABS	_	NG	UNKWN	UN <b>W</b> N	UNKWN	UNION	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_
IPDM E/R	No indication	_	UNKWN	UN₩WN	_	_	UN <b>W</b> N	_	_	_	_	CAN COMM CIRCUIT (UN00)	_



#### Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-84</u>, <u>"Inspection CAN Main Line Circuit"</u>.

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	RESULTS
GEELOT STOTEM	Surcen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	E/R		
ENGINE	_	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	_	UNIWN	UNIWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	1	_	UNKWN	1	UNIWN	1	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	1	ı	_	UNKWN	ı	UNIWN	_	CAN COMM CIRCUIT (U 1000)	_
ВСМ	_	NG	UNKWN	UNKWN	1	1	_	UNKWN	1	ı	UNIWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	UNIWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	UNIWN	1	CAN COMM CIRCUIT (U <b>10</b> 00)	-
ABS	_	NG	UNKWN	UN <b>W</b> N	UNKWN	UNKWN	_	_	UNWWN	_	1	CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN		_	UNKWN	_	_	_	1	CAN COMM CIRCUIT (U 1000)	_



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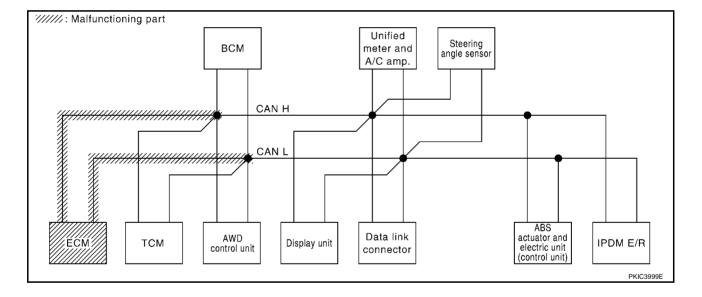
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Case 3
Check ECM circuit. Refer to LAN-84, "Inspection CAN Branch Line Circuit (For ECM or IPDM E/R Circuit)".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen	1-22-1	T				Receive	diagnosis				SELF-DIAG	RESULTS
GEEEOT GTGTEN	3010011	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI BINC	THEODEIO
ENGINE	_	NG	UN <b>W</b> N	-	UNK <b>W</b> N	UNKWN	UN <b>K</b> ₩N	UNI	-	UNI <b>W</b> N	UNIWN	CAN COMM CIRCUIT (U <b>N</b> 00)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNK <b>W</b> N	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNK <b>W</b> N	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ВСМ	_	NG	UNKWN	UN <b>W</b> N	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNK <b>W</b> N	_	_	UNKWN	UNKWN	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UN <b>W</b> N	UNKWN	UNKWN	UNKWN	-	_	UNKWN	-	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ABS	_	NG	UNKWN	UN <b>W</b> N	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UN <b>W</b> N	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (UN00)	_



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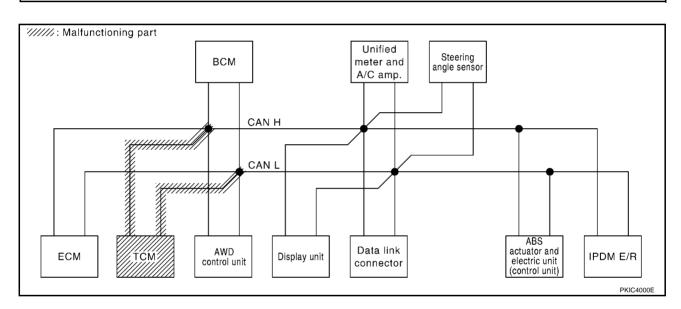
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# CAN SYSTEM (TYPE 2)

Case 4

Check TCM circuit. Refer to LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	DECLITO
SEELOT STSTEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U <b>N</b> 00)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	UNKWN	_	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	UNKWN	-	CAN COMM CIRCUIT (U <b>N</b> 00)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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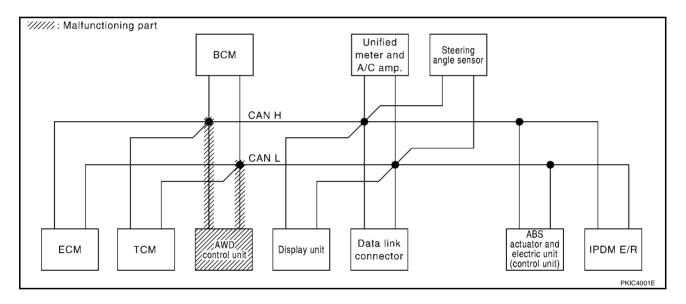
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Case 5
Check AWD control unit circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

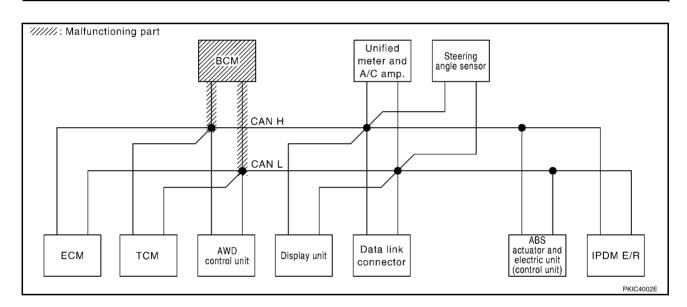
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	RESULTS
OLLLO1 O101LIN	Sorcen	Initial Transmit diagnosis diagnosis  NG UNKWN  NG UNKWN		ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	NG	NG UNKWN	-	UNKWN	UNWWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U <b>1</b> 001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	1	_	-	UNKWN	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UN <b>∳</b> WN	-	1	_	-	_	_	_	_	CAN COMM CIRCUIT (U 100)	_
ВСМ	_	NG	UNKWN	UNKWN	1	1	1	UNKWN	ı	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNION	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	_	UNKWN	_	-	CAN COMM CIRCUIT (U <b>N</b> 00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	1	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



Case 6

Check BCM circuit. Refer to LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	DECILITO
SEELOT STSTEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	GELI-DIAC	THESOLIS
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UN <b>W</b> N	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	_	NG	UN <b>≪</b> WN	UN <b>W</b> N	-	_	_	UNIMN	_	_	UNIWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	-	_	UNK <b>W</b> N	UNKWN	_	-	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UN <b>W</b> N	_	_	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNK <b>W</b> N	_	_		_	CAN COMM CIRCUIT (U 100)	_



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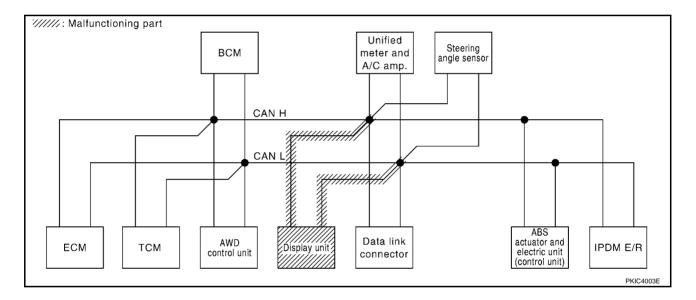
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Case 7
Check display unit circuit. Refer to LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	DECLITO
SELECT STSTEM	Scieen	Initial diagnosis	Transmit diagnosis	ECM	TCM	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	GELI -DIAC	THEODEIO
ENGINE	_	NG UNKW	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	-	_	UNKWN	ı	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ВСМ	_	NG	UNKWN	UNKWN	1	_	_	UNKWN	1	1	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UN <b>W</b> N	UNK <b>W</b> N	1	_	UN <b>KW</b> N	UNI WN	-	1	UNIWN	_	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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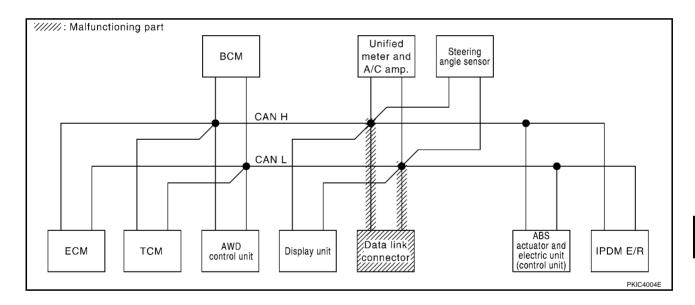
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## CAN SYSTEM (TYPE 2)

Case 8
Check data link connector circuit. Refer to LAN-85, "Inspection Data Link Connector Circuit".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	l ecreen		Transmit				Receive	diagnosis				SELE-DIAG	RESULTS
GEEEGT GTGTEN	roorcom	diagnosis diagno			ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI BINC	THEODEIO
ENGINE	_	NG	UNKWN	1	UNKWN	UNKWN	UNKWN	UNKWN	ı	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	ı	1	_	UNKWN	1	UNKWN	ı	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	ı	ı	_	UNKWN	ı	UNKWN	ı	CAN COMM CIRCUIT (U1000)	-
ВСМ	_	NG	UNKWN	UNKWN	ı	1	_	UNKWN	1	ı	UNKWN	CAN COMM CIRCUIT (U1000)	I
Display unit	_	NG	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	ı	ı	UNKWN	_	ı
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	1	ı	UNKWN	ı	CAN COMM CIRCUIT (U1000)	1
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



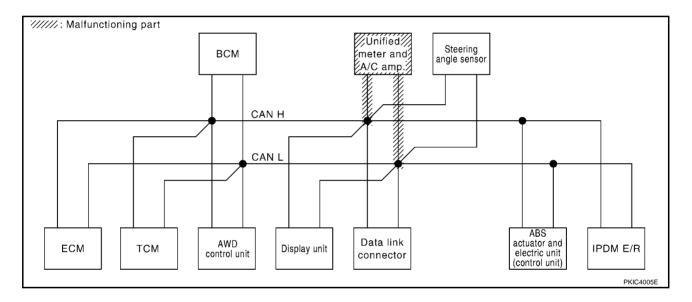
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Case 9

Check unified meter and A/C amp. circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

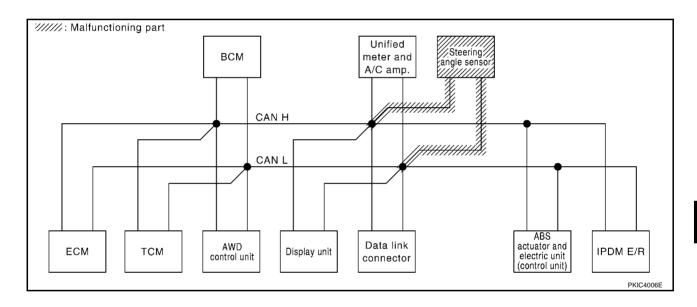
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon	Initial					Receive	diagnosis				SELF-DIAG	RESULTS
GEELOT STOTEM	Surcen	diagnosis diagnosis  NG UNKWN		ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	NG	NG UNKWN	_	UNKWN	UNKWN	UNKWN	UNIWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	1	1	_	UNIWN	ı	UNKWN	ı	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	ı	ı	_	UNIWN	ı	UNKWN	ı	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ВСМ	_	NG	UNKWN	UNKWN	-	_	_	UNIWN	1	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNIWN	_	_	UNKWN	_	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



Case 10

Check steering angle sensor circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	ecraan						Receive	diagnosis				SELF-DIAG	RESULTS
SEELOT STSTEM	Scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODEIG
ENGINE	_	NG	UNKWN	-	UNKWN	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)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	_	NG	UNKWN	UNKWN	_	_	_	UNKWN		_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display 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	UNKWN	UNKWN	_	_	UNIWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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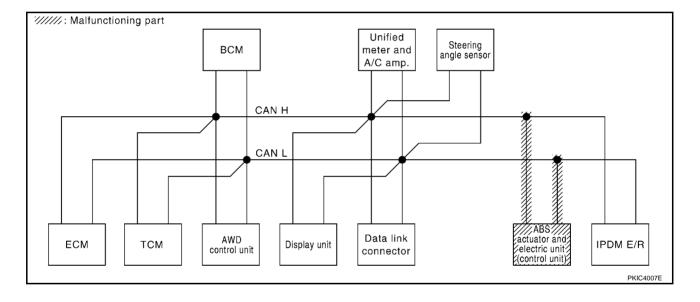
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#### Case 11

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

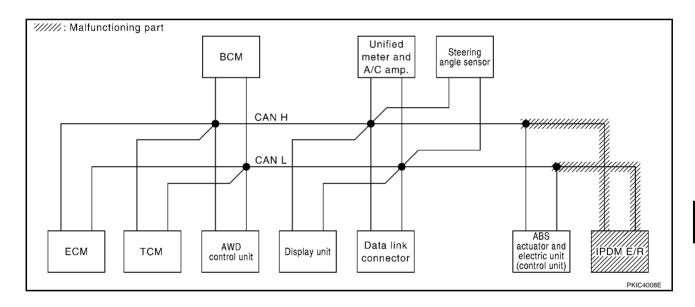
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon						Receive	diagnosis				SELF-DIAG	RESULTS
OLLLOT GTGTLIN	Sorcen	Initial diagnosis	diagnosis diagnosis  NG UNKWN  NG UNKWN		ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	_	UNIWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U <b>1</b> 001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNIWN	-	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	1	ı	_	UNKWN	ı	UNIWN	1	CAN COMM CIRCUIT (U 1000)	_
ВСМ	_	NG	UNKWN	UNKWN	1	1	_	UNKWN	1	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNIWN	1	CAN COMM CIRCUIT (U <b>10</b> 00)	-
ABS	_	V	Π <b>ΝΚW</b> Ν	UN <b>≪</b> WN	UNK WN	UNKWN	_	_	UNWWN	_	1	CAN COMM CIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	1	_	UNKWN	_	_	_	1	CAN COMM CIRCUIT (U1000)	_



Case 12

Check IPDM E/R circuit. Refer to LAN-84, "Inspection CAN Branch Line Circuit (For ECM or IPDM E/R Circuit)" .

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	l ecreen		Transmit				Receive	diagnosis				SELF-DIAG	RESULTS
GEELOT GTGTEIN	Surcen	diagnosis diagno  NG UNKV		ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	THEODEIG
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	UNIWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	_	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	_	UNIWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	_	UNIWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U 100)	_



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Case 13
Check CAN communication circuit. Refer to <u>LAN-85</u>, "CAN Communication Circuit Inspection".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELF-DIAG	RESULTS
GEEEOT STOTEM	3010011	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	<u> </u>	
ENGINE	_	NG	UN₩WN	_	UNKWN	UNKWN	UN <b>K</b> ₩N	UN <b>W</b> N	-	UNI <b>W</b> N	UNIWN	CAN COMM CIRCUIT (U <b>N</b> 00)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	_	NG	UN <b>₩</b> N	_	_	_	_	_	_	_	_	CAN COMM CIRCUIT (U 1000)	_
всм	_	NG	UN <b>∳</b> NN	UN <b>W</b> N	_	_	_	UNIMN	_	_	UNIWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UN <b>W</b> N	UN <b>W</b> N	_	_	UN <b>W</b> N	UNIWN	_	_	UNIWN	_	_
METER A/C AMP	Ng indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (UN00)	-
ABS	_	V	UN <b>∜</b> NN	UN <b>W</b> N	UNKWN	UNION	_	_	UNIWN	_	_	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U 1000)	_

Case 14
Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-87, "IPDM E/R Ignition Relay Circuit Inspection".

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	Lecroon		<b>-</b> .				Receive	diagnosis				SELF-DIAG	RESULTS
OLLLOT GTGTLIN	Sorcen	Initial diagnosis	diagnosis diagnosis  NG UNKWN  NG UNKWN	ECM	тсм	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	E/R		
ENGINE	_	NG		_	UNKWN	UNWWN	UNKWN	UNKWN	_	UNIWN	UNKWN	CAN COMM CIRCUIT (U <b>N</b> 00)	CAN COMM CIRCUI (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNWWN	UNKWN	_	_	UNIWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

#### Case 15

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-87</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection"</u>.

					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELF-DIAG	RESULTS
GEEEGT GTGTEM	dordon	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	AWD /4WD /e4WD	BCM /SEC	METER /M&A	STRG	VDC/TCS /ABS	IPDM E/R	OLLI DINO	THEODERO
ENGINE	_	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	_	_	_	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	_	NG	UNKWN	_	_	_	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U <b>N</b> 00)	_
ВСМ	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	1	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	ı	UNKWN	ı	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	_	UNKWN	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

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CAN SYSTEM (KYPE 3)

## [CAN]

PFP:23710

**CAN SYSTEM (TYPE 3)** 

**Component Parts and Harness Connector Location** 

AKS00HK9

Refer to LAN-16, "Component Parts and Harness Connector Location" .

Schematic

Refer to LAN-18, "Schematic".

Wiring Diagram — CAN —

AKS00HKB

AKS00HKA

Refer to LAN-20, "Wiring Diagram — CAN —" .

Check Sheet

Refer to LAN-65, "Check Sheet".

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#### NOTE:

**Check Sheet** 

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

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	Initial	Transmit				Receive	diagnosis				SELE-DIAG	RESULTS
3113 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3		diagnosis		ECM	тсм	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	. 11200210
ENGINE	_	NG	UNKWN	1	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	-	ı	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ВСМ	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	-	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	ı	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	ı	UNKWN	UNKWN	UNKWN	-	ı		1	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	ı	-	ı	_	_	CAN COMM CIRCUIT (U1000)	_

Attach copy of

Revision: 2006 December

SELECT SYSTEM

Attach copy of SELECT SYSTEM

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

Attach copy of display unit CAN DIAG MNTR Check Sheet

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Attach copy of TRANSMISSION Attach copy of Attach copy of Attach copy of ENGINE METER A/C AMP BCM SELF-DIAG RESULTS SELF-DIAG RESULTS SELF-DIAG RESULTS SELF-DIAG RESULTS Attach copy of Attach copy of Attach copy of Attach copy of AUTO DRIVE POS. ALL MODE AWD/4WD ABS IPDM É/Ř SELF-DIAG RESULTS SELF-DIAG RESULTS SELF-DIAG RESULTS SELF-DIAG RESULTS Attach copy of Attach copy of Attach copy of Attach copy of ENGINE **TRANSMISSION** BCM METER A/C AMP CAN DIAG SUPPORT CAN DIAG SUPPORT CAN DIAG SUPPORT CAN DIAG SUPPORT MNTR MNTR MNTR **MNTR** Attach copy of Attach copy of Attach copy of Attach copy of AUTO DRIVE POS. ALL MODE AWD/4WD IPDM E/Ŕ ABS CAN DIAG SUPPORT CAN DIAG SUPPORT CAN DIAG SUPPORT CAN DIAG SUPPORT MNTR MNTR MNTR MNTR

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## CAN SYSTEM (TYPE 3)

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

#### NOTE:

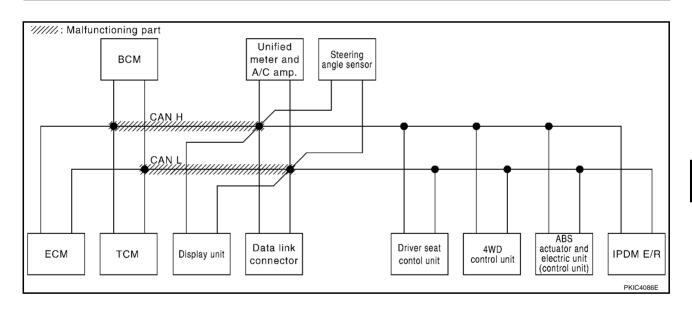
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

#### Case 1

Revision: 2006 December

Check harness between BCM and data link connector. Refer to LAN-84, "Inspection CAN Main Line Circuit".

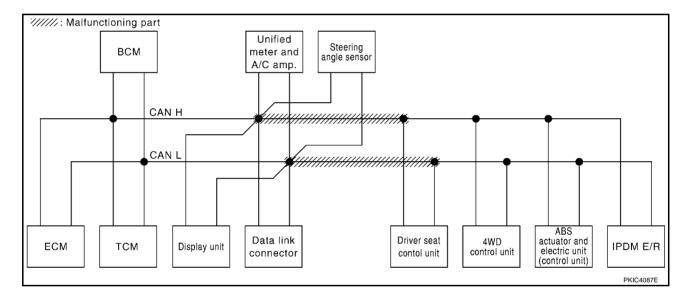
					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecraan						Receive	diagnosis				SELF-DIAG	RESULTS
SEELOT STSTEM	Scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	/e4WD	VDC/TCS /ABS	E/R		
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNK VN	_	UNK VN	UNK <b>N</b> N	UNK <b>V</b> N	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	-	UNKWN	_	CAN COMM/CIRCUIT (U1000)	_
ВСМ	_	NG	UNKWN	UNKWN	-	_	UNKWN	_	1	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNK <b>W</b> N	1	UNK WN	UNKWN	_	ı	1	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNK WN	UNKVN	UNK <b>W</b> N	_	_	UNKWN	UNKWN	-	CAN COMMCIRCUIT (U100)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKVN	UNK WN	UNKWN	_	1	-	-	CAN COMMCIRCUIT (U 100)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	_	UNKWN	_	1	UNKWN	_	CAN COMMICIRCUIT (UN00)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	CAN COMMCIRCUIT (U100)	_
IPDM E/R	No indication	_	UNKWN	UNK WN	1	UNK WN	_	_	_	_	_	CAN COMMCIRCUIT (U 1000)	_



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Case 2
Check harness between data link connector and driver seat control unit. Refer to <u>LAN-84</u>, "Inspection CAN Main Line Circuit".

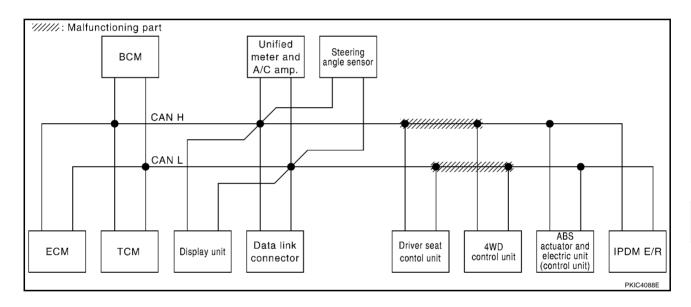
					CAN	DIAG SU	PPORT N	1NTR					
SELECT SYSTEM	screen	1 - 22 - 1	T				Receive	diagnosis				SELE-DIAG	RESULTS
SEEDT STOTEIN	dorderi	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIA	311200210
ENGINE	_	NG	UNKWN	ı	UNKWN	UNKWN	UNKWN	-	n <b>uk</b> wu	UNK VN	UNKAN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	ı	-	UNKWN	ı	ı	UNKVN	_	CAN COMMICIRCUIT (UNO0)	_
ВСМ	_	NG	UNKWN	UNKWN	ı	_	UNKWN	ı	ı	ı	UNKAN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	_	ı	1	UNK VN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	ı	-	UNKWN	UNK WN	1	CAN COMMCIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	_	_	1	-	CAN COMMCIRCUIT (U100)	_
ALL MODE AWD/4WD	_	NG	UNKWN	-	-	_	ı	-	-	UNKWN	-	CAN COMMICIRCUIT (U 1000)	_
ABS	_	NG	UNKWN	UNK WN	UNKVN	_		UNKWN	UNKWN		_	CAN COMMCIRCUIT (U 100)	_
IPDM E/R	No. indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMMCIRCUIT (U 1000)	_



# CAN SYSTEM (KYPE 3)

Case 3
Check harness between driver seat control unit and AWD control unit. Refer to <u>LAN-84</u>, "<u>Inspection CAN Main Line Circuit</u>".

					CAN	DIAG SU	PPORT N	1NTR					
SELECT SYSTEM	ecraan						Receive	diagnosis				SELF-DIAG	RESULTS
GEEEOT GTGTEIVI		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	/e4WD	VDC/TCS /ABS	E/R		
ENGINE	1	NG	UNKWN	ı	UNKWN	UNKWN	UNKWN	-	UNK WN	UNKVN	UNKVN	CAN COMM CIRCUIT (U1000)	CAN COMMICIRCUI (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_		UNK WN	_	CAN COMMCIRCUIT (U1000)	_
ВСМ	-	NG	UNKWN	UNKWN	-	_	UNKWN	_	-	-	UNKAN	CAN COMM CIRCUIT (U1000)	_
Display unit	-	NG	UNKWN	UNKWN	1	UNKWN	UNKWN	_	-	1	UNK VN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNK WN	UNK WN	1	CAN COMMCIRCUIT (U100)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	-		1	-	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	-	-	-	ı	-	-	UNKWN	-	CAN COMMCIRCUIT (U 100)	_
ABS	_	NG	UNKWN	UNK WN	UNKVN	ı	ı	UNKWN	UNKWN		_	CAN COMMCIRCUIT (U 100)	_
IPDM E/R	No. indiation	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMMICIRCUIT (U 1000)	_



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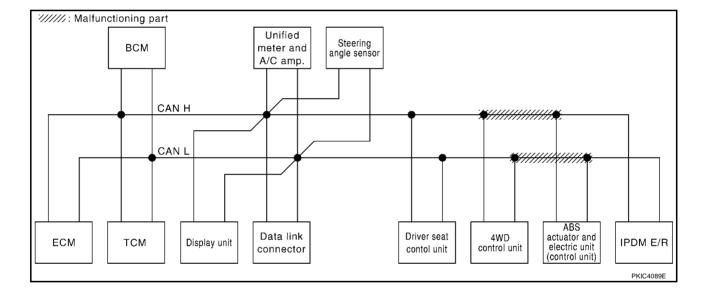
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Case 4
Check harness between AWD control unit and ABS actuator and electric unit (control unit). Refer to <u>LAN-84</u>, <u>"Inspection CAN Main Line Circuit"</u>.

					CAN	DIAG SU	PPORT N	1NTR					
SELECT SYSTEM	ecraan						Receive	diagnosis				SELE-DIAG	RESULTS
GEELOT STOTEIVI		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	/e4WD	VDC/TCS /ABS	E/R		
ENGINE	ı	NG	UNKWN	ı	UNKWN	UNKWN	UNKWN	-	UNKWN	UNK <b>V</b> N	UNKAN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	_	UNK VN	_	CAN COMMCIRCUIT (U100)	_
ВСМ	I	NG	UNKWN	UNKWN	ı	_	UNKWN	ı	_	ı	UNK VN	CAN COMM CIRCUIT (U1000)	ı
Display unit	-	NG	UNKWN	UNKWN	1	UNKWN	UNKWN	_	_	1	UNKAN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	ı	-	UNKWN	UNK VN	_	CAN COMMCIRCUIT (U 1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	-	_	1	_	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	_	UNK VN	-	CAN COMMCIRCUIT (U 100)	1
ABS	_	NG	UNKWN	UNKVN	UNKVN	ı	ı	UNKWN	UNK NN		_	CAN COMMCIRCUIT (U 100)	_
IPDM E/R	No. indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMMCIRCUIT (U100)	_



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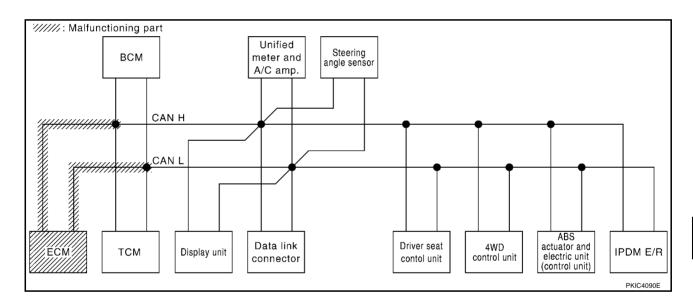
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Case 5

Check ECM circuit. Refer to LAN-84, "Inspection CAN Branch Line Circuit (For ECM or IPDM E/R Circuit)".

					CAN	DIAG SU	PPORT M	1NTR					
SELECT SYSTEM	ecraan						Receive	diagnosis				SELE-DIAG	RESULTS
OLLEGI GIGILIA	doleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	/e4WD	VDC/TCS /ABS	E/R		
ENGINE	_	NG	UNK WN	_	UNK <b>W</b> N	UNK VN	UNK NN	_	UNKWN	UNK <b>N</b> N	UN <b>K√</b> N	CAN COMMICIRCUIT (U 1000)	CAN COMM/CIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNK VN	_	_	UNKWN	_	1	UNKWN		CAN COMM/CIRCUIT (U1000)	_
всм	_	NG	UNKWN	UNK NN	_	_	UNKWN	_	1	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	-	NG	UNKWN	UNKVN	_	UNKWN	UNKWN	-	1	_	UNKWN	_	_
METER A/C AMP	No indication	-	UNKWN	UNKVN	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	ı	CAN COMMICIRCUIT (U100)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	1	1	-	1	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	ı	NG	UNKWN	UNKVN	-	-	UNKWN	ı	1	UNKWN	ı	CAN COMMICIRCUIT (UN00)	-
ABS	_	NG	UNKWN	UNKVN	UNKWN	_		UNKWN	UNKWN	_	_	CAN COMMCIRCUIT (U 100)	_
IPDM E/R	No indication	_	UNKWN	UNK WN	_	UNKWN	_	_	_	_	_	CAN COMMCIRCUIT (U 100)	_



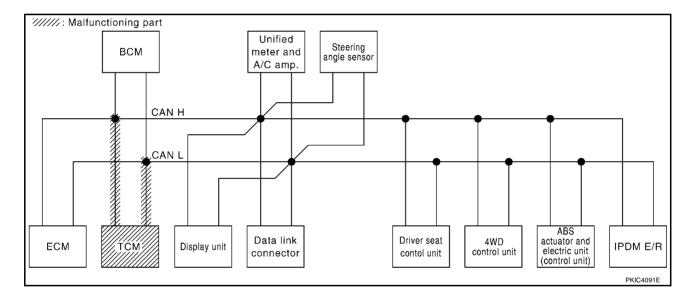
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Case 6

Check TCM circuit. Refer to LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1 - 22 - 1	T				Receive	diagnosis				SELE-DIAG	RESULTS
022201 01012141	doreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIA	A FILOULIO
ENGINE	_	NG	UNKWN	_	UNKVN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMMICIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	_	UNKWN	ı	CAN COMMCIRCUIT (U100)	_
BCM	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	CAN COMMCIRCUIT (U 1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	_	_	_	1	CAN COMMCIRCUIT (U 100)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_		CAN COMMCIRCUIT (U 1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

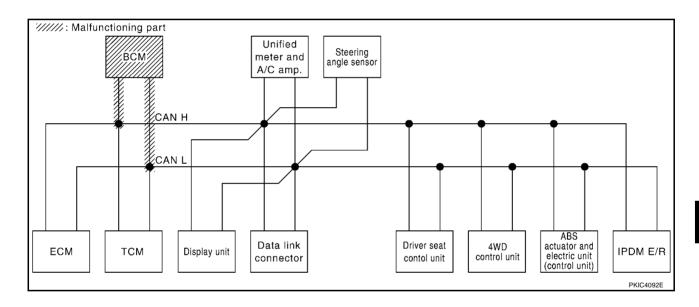


# CAN SYSTEM (KYPE 3)

Case 7

Check BCM circuit. Refer to LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)" .

					CAN	DIAG SU	PPORT N	1NTR					
SELECT SYSTEM	ecraan						Receive	diagnosis				SELE-DIAG	RESULTS
GEEEOT GTGTEIVI	Scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TILOULIO
ENGINE	ı	NG	UNKWN	ı	UNKWN	UNK VN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	ı	-	UNKWN	ı	ı	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
всм	I	NG	UNKVN	UNKVN	-	_	UNKVN	ı	1		UNKWA	CAN COMM CIRCUIT (U1000)	_
Display unit	-	NG	UNKWN	UNKWN	_	UNK WN	UNKWN	-	ı	1	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKAN	ı	ı	UNKWN	UNKWN	1	CAN COMMCIRCUIT (U100)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	UNK VN	UNKWN	-	1	1	-	CAN COMMCIRCUIT (U100)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	_	UNKWN	1	1	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	1	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMMICIRCUIT (U100)	_



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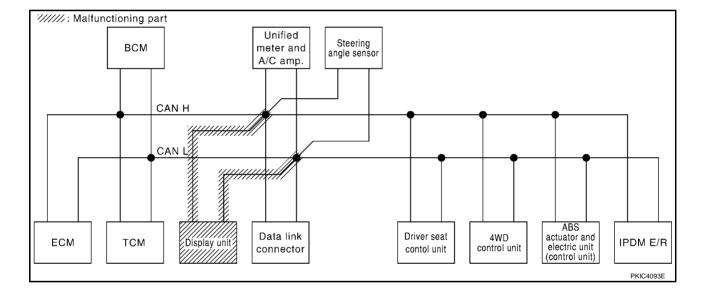
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Case 8
Check display unit circuit. Refer to <u>LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)"</u>.

					CAN	DIAG SU	PPORT N	1NTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELF-DIAG	RESULTS
GEEEOT STOTEIN	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	THEODERO
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	ı	_	UNKWN	ı	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	ı
ВСМ	_	NG	UNKWN	UNKWN	ı	_	UNKWN	1	1	1	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	Π <b>ΙΚΑ</b> Μ	UNK WN	ı	UNKWN	UNK WN	1	-	_	UNK VN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	_	ı	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	1	UNKWN	UNKWN	UNKWN	-	1	-	-	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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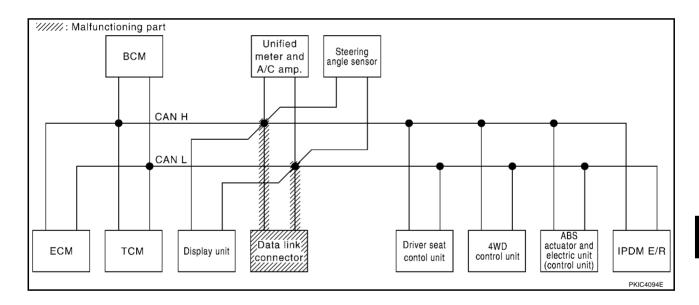
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## CAN SYSTEM (TYPE 3)

Case 9
Check data link connector circuit. Refer to <u>LAN-85</u>, "Inspection <u>Data Link Connector Circuit"</u>.

					CAN	DIAG SU	PPORT M	1NTR					
SELECT SYSTEM	ecraan						Receive	diagnosis				SELE-DIAG	RESULTS
322231 31312IV		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	OLEI BING	THEODERO
ENGINE	_	NG	UNKWN	ı	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	ı	ı	UNKWN	ı	CAN COMM CIRCUIT (U1000)	ı
ВСМ	-	NG	UNKWN	UNKWN		_	UNKWN	1	ı	1	UNKWN	CAN COMM CIRCUIT (U1000)	ı
Display unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	-	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	ı	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	1	UNKWN	UNKWN	UNKWN	-	1	1	1	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	ı	NG	UNKWN	UNKWN	_	-	UNKWN	ı	ı	UNKWN	1	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	ı	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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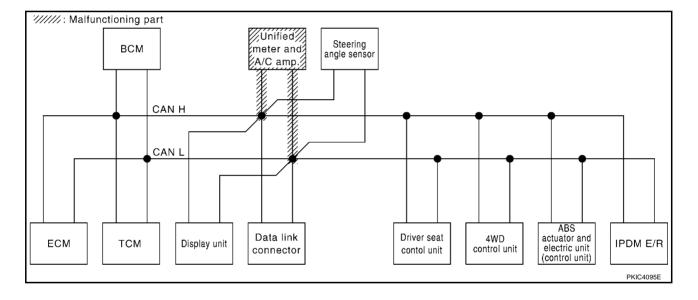
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# CAN SYSTEM (KYPE 3)

Case 10

Check unified meter and A/C amp. circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1 - 22 - 1	T				Receive	diagnosis				SELF-DIAG	RESULTS
SEEDT STOTEIN	dorcen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	OLLI BING	TIEGOETO
ENGINE	ı	NG	UNKWN	ı	UNKWN	UNKWN	UNK <b>W</b> N	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	ı	_	UNKAN	_	_	UNKWN	ı	CAN COMMCIRCUIT (U100)	I
ВСМ	ı	NG	UNKWN	UNKWN	ı	_	UNKWN	_		ı	UNKWN	CAN COMM CIRCUIT (U1000)	I
Display unit	_	NG	UNKWN	UNKWN	-	UNKWN	UNK WN	_	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	-	ı	UNKWN	UNKWN	1	CAN COMMICIRCUIT (U1000)	1
AUTO DRIVE POS.	No indication	NG	UNKWN	ı	UNKWN	UNKWN	UNKWN	_	_	1	_	CAN COMMCIRCUIT (U1000)	_
ALL MODE AWD/4WD	I	NG	UNKWN	UNKWN	ı	ı	UNK VN	ı	-	UNKWN	_	CAN COMMICIRCUIT (U 100)	I
ABS		NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	-	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

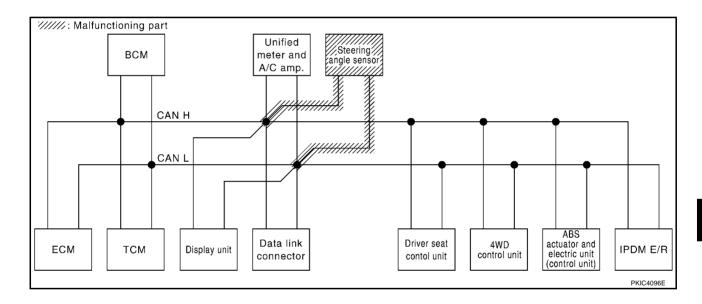


# CAN SYSTEM (KYPE 3)

Case 11

Check steering angle sensor circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)" .

					CAN	DIAG SU	PPORT N	1NTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELE-DIAG	RESULTS
GEEEOT GTGTEIVI	3010011	Initial diagnosis	Transmit diagnosis		тсм	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TILOULIO
ENGINE	_	NG	UNKWN	ı	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	_	ı	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
всм	_	NG	UNKWN	UNKWN	-	_	UNKWN	ı	1	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	ı	1	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	_	1	1	-	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS		NG	UNKWN	UNKWN	UNKWN	_		UNK WN	UNKWN	_		CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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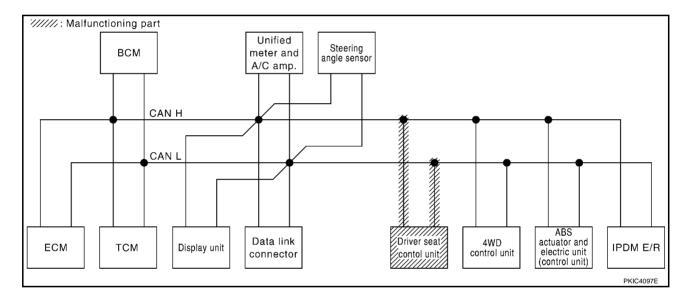
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Case 12
Check driver seat control unit circuit. Refer to LAN-85, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

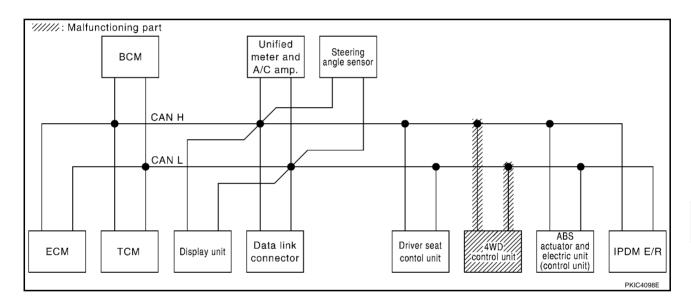
					CAN	DIAG SU	PPORT N	1NTR					
SELECT SYSTEM	screen	1 - 11 - 1	T				Receive	diagnosis				SELE-DIAG	RESULTS
SEEDT STOTEIN	dorcen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	CEE BING HESSELS	
ENGINE	ı	NG	UNKWN	ı	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	ı	_	UNKWN	ı	ı	UNKWN	-	CAN COMM CIRCUIT (U1000)	ı
ВСМ	I	NG	UNKWN	UNKWN	ı	_	UNKWN	ı	1	ı	UNKWN	CAN COMM CIRCUIT (U1000)	ı
Display unit	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	-	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	ı
AUTO DRIVE POS.	No indication	NG	UNKWN	ı	UNKWN	UNKWN	UNKWN	ı	1	1	_	CAN COMMCIRCUIT (U 1000)	-
ALL MODE AWD/4WD	I	NG	UNKWN	UNKWN	ı	ı	UNKWN	ı		UNKWN	_	CAN COMM CIRCUIT (U1000)	ı
ABS	_	NG	UNKWN	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN		_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



# CAN SYSTEM (KYPE 3)

Case 13
Check AWD control unit circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecraan						Receive	diagnosis				SELF-DIAG	RESULTS
GEEEOT STOTEIN	Scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	occi bina neoccio	
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	_	Π <b>ΛΚΝ</b> Ν	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ВСМ	-	NG	UNKWN	UNKWN	-	_	UNKWN	_	-	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
Display unit	_	NG	UNKWN	UNKWN	ı	UNKWN	UNKWN	_	1	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	CAN COMMCIRCUIT (U100)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	_	_	-	-	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	_	NG	UNK WN	_	-	_	_	_	_	_	_	CAN COMMICIRCUIT (U 100)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	ı	-	UNKWN	UNYVN	_	_	CAN COMMCIRCUIT (U 100)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	-	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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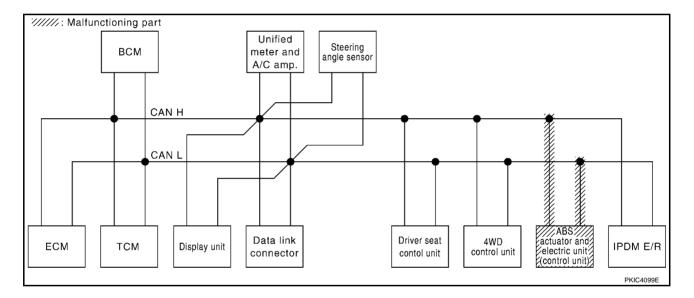
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Case 14
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-85</u>, "Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit)".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1 - 11 - 1	T				Receive	diagnosis				SELE-DIAG	RESULTS
SEEDT STOTEIN		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	/e4WD	VDC/TCS /ABS	E/R		
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	-	UNKWN	UNK VN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMICIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	_	UNK VN	_	CAN COMMICIRCUIT (UN00)	_
ВСМ	_	NG	UNKWN	UNKWN	ı	_	UNKWN		ı		UNKWN	CAN COMM CIRCUIT (U1000)	ı
Display unit	_	NG	UNKWN	UNKWN	1	UNKWN	UNKWN	_	ı	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNK WN	-	CAN COMMCIRCUIT (U100)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	_	-	-	_	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	-	UNKWN	_	-	UNK WN	-	CAN COMMICIRCUIT (U 100)	-
ABS	_	V	NNK NN	UNK <b>V</b> N	UNKWN	ı	ı	UNKWN	UNK	_	_	CAN COMMCIRCUIT (U 100)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

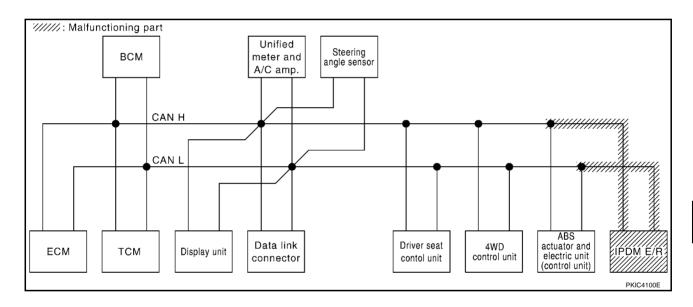


# CAN SYSTEM (KYPE 3)

Case 15

Check IPDM E/R circuit. Refer to LAN-84, "Inspection CAN Branch Line Circuit (For ECM or IPDM E/R Circuit)" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELE-DIAG	RESULTS
GEEEOT STOTEIN	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	/e4WD	VDC/TCS /ABS	E/R		
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNK <b>V</b> N	CAN COMM CIRCUIT (U1000)	CAN COMM/CIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	ı	_	UNKWN	_	ı	UNKWN	_	CAN COMM CIRCUIT (U1000)	ı
ВСМ	_	NG	UNKWN	UNKWN	ı	_	UNKWN	_	1	ı	UNK VN	CAN COMM CIRCUIT (U1000)	ı
Display unit	_	NG	UNKWN	UNKWN	1	UNKWN	UNKWN	_	ı	1	UNK VN	_	_
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	_	1	1	-	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	1	UNKWN	_	_	_	_	_	CAN COMMICIRCUIT (U 1000)	_



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Case 16

Check CAN communication circuit. Refer to LAN-85, "CAN Communication Circuit Inspection" .

					CAN	DIAG SU	PPORT N	1NTR					
SELECT SYSTEM	screen	1 - 20 - 1	T				Receive	diagnosis				SELE-DIAG	RESULTS
02220101012141	dordon	Initial diagnosis	Transmit diagnosis		ТСМ	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	CEE BINGTIESCETS	
ENGINE	_	NG	UNK <b>N</b> N	ı	UNK NN	UNK VN	UNK <b>N</b> N	-	UNK WN	UNK WN	UNK <b>V</b> N	CAN COMMICIRCUIT (U1000)	CAN COMMCIRCUI (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	ı	_	UNKWN	ı	-	UNKWN	-	CAN COMMCIRCUIT (U1000)	1
всм	_	NG	UNK NN	UNK WN	-	_	UNKWN	_	1	1	UNKAN	CAN COMM CIRCUIT (U1000)	_
Display unit	-	NG	UNK VN	UNKVN	-	UNKWN	UNKVN	_	_	_	UNK VN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	ı	ı	UNKWN	UNKWN	_	CAN COMMCIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	1	UNKWN	UNKWN	UNKWN	-	1	-	-	CAN COMMCIRCUIT (U1000)	-
ALL MODE AWD/4WD	_	NG	UNKWN	ı	ı	1	ı	ı	-	-	_	CAN COMMICIRCUIT (U 100)	ı
ABS	_	V	UNK NN	UNKVN	UNKVN	_	_	UNKWN	UN <b>W</b> N	_	_	CAN COMMCIRCUIT (U100)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	_	_	_	-	_	CAN COMMCIRCUIT (U 100)	_

#### Case 17

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-87, "IPDM E/R Ignition Relay Circuit Inspection"</u>.

		1										т-	
					CAN	DIAG SU	PPORT M	INTR					
SELECT SYSTEM	screen	Initial	T				Receive	diagnosis				SELE-DIAG	RESULTS
522201010101	00.00%	diagnosis	Transmit diagnosis		тсм	BCM /SEC	METER /M&A	STRG	/e4WD	VDC/TCS /ABS	E/R		
ENGINE	_	NG	UNKWN	_	UNKVN	UNKWN	UNKWN	_	UNKVN	UNK VN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMMCIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	ı	-	UNKWN	ı	CAN COMM CIRCUIT (U1000)	_
всм	_	NG	UNKWN	UNKWN	_	_	UNKWN	1	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKVN	UNKWN	_	ı	UNKWN	UNK VN	ı	CAN COMMCIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKVN	UNKWN	UNKWN	ı	_	_	ı	CAN COMMICIRCUIT (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)	_
													PKIC4149E

#### Case 18

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-87, "IPDM E/R Ignition Relay Circuit Inspection".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	ecroon						Receive	diagnosis				SELE-DIAG	RESULTS
GEEEOT STOTEIN		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	STRG	AWD/4WD /e4WD	VDC/TCS /ABS	IPDM E/R	occi bina ricoccio	
ENGINE	_	NG	UNKWN	_	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	ı	ı	_	_	_	_	UNKWN	_	CAN COMMCIRCUIT (U1000)	_
ВСМ	_	NG	UNKWN	UNKWN	ı	_	UNKWN	_	_	ı	UNKWN	CAN COMM CIRCUIT (U1000)	_
Display unit	_	NG	UNKWN	UNKWN	ı	UNKWN	UNKWN	-	_	_	UNKWN	_	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	UNKWN	1	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	UNKWN	UNKWN	_	_	1	-	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	ı	NG	UNKWN	١	ı	_	ı	_	_	UNKWN	_	CAN COMMICIRCUIT (U 100)	-
ABS	_	NG	UNKWN	-	UNKWN	_	_	_	UNKWN	_	_	CAN COMMCIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

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#### TROUBLE DIAGNOSIS FOR SYSTEM

#### **Inspection CAN Main Line Circuit**

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#### 1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of the harness connector includes malfunctioning part for damage, bend and loose connection.

#### OK or NG

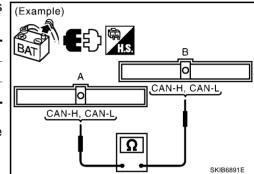
OK >> GO TO 2.

NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

Disconnect ECM connector, and check continuity of the harness includes malfunctioning part.

Connector	Terminal	Connector	Terminal	Continuity
Α	CAN-H	В	CAN-H	Yes
^	CAN-L	<b>D</b>	CAN-L	Yes



#### NOTE:

"A" and "B" refer to the connectors that can check continuity of the malfunctioning part.

#### OK or NG

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

NG >> Repair harness.

## Inspection CAN Branch Line Circuit (For ECM or IPDM E/R Circuit)

AKS00FIE

#### 1. CHECK CONNECTOR

- Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of ECM or IPDM E/R for damage, bend and loose connection.

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

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

Terr	Terminal					
CAN-H	CAN-L	108 – 132 Ω				

#### OK or NG

OK >> Replace ECM or IPDM E/R.

NG >> Repair harness between ECM or IPDM E/R and connection point.

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## Inspection CAN Branch Line Circuit (Except for ECM and IPDM E/R Circuit) AKSOOFIF

#### 1. CHECK CONNECTOR

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

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

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

Terr	Terminal					
CAN-H	CAN-L	54 – 66 Ω				

#### OK or NG

OK >> Replace the unit.

NG >> Repair harness between the unit and connection point.

#### **Inspection Data Link Connector Circuit**

#### 1. CHECK CONNECTOR

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

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

## 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Terr	Terminal					
6	14	54 – 66 Ω				

#### OK or NG

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

NG >> Repair harness between data link connector and connection point.

# Data link connector

## **CAN Communication Circuit Inspection**

#### 1. CHECK CONNECTOR

- 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.

Revision: 2006 December

NG >> Repair terminal or connector as necessary.

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## 2. CHECK HARNESS FOR SHORT CIRCUIT

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

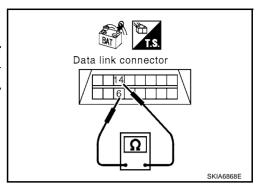
Terr	Terminal					
6	14	No				

#### OK or NG

OK >> GO TO 3.

NG

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



## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

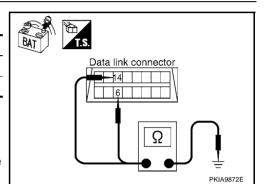
Terminal		Continuity
6	Ground	No
14	Ground	No

#### OK or NG

OK >> GO TO 4.

NG

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



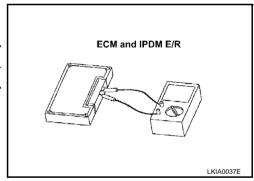
## 4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

Terminal		Resistance (Approx.)
CAN-H	CAN-L	108 – 132 Ω

Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
CAN-H	CAN-L	108 – 132 Ω



#### OK or NG

OK >> GO TO 5.

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

## 5. CHECK SYMPTOM

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

#### Check results

Reproduced>>GO TO 6.

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

## TROUBLE DYAGNOSIS FOR SYSTEM

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## 6. UNIT REPRODUCIBILITY INSPECTION

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

- Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Disconnect the unit connector.
- Connect the battery cable to the negative terminal.
- 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.

- IPDM E/R power supply circuit. Refer to the following.
- LHD mode except for Philippines and Iranl: PG-63, "LHD MODELS EXCEPT FOR PHILIPPINES AND IRAN".
- RHD model except for South Africa: PG-64, "RHD MODELS EXCEPT FOR SOUTH AFRICA".
- RHD model for South Africa and LHD model for Philippines and Iran: PG-65, "RHD MODELS FOR SOUTH AFRICA, AND LHD MODELS FOR PHILIPPINES AND IRAN".
- Ignition power supply circuit. Refer to the following.
- LHD mode except for Philippines and Iranl: PG-11, "IGNITION POWER SUPPLY IGNITION SW. IN "ON" AND/OR "START""
- LHD mode for Philippines and Iranl: PG-23, "IGNITION POWER SUPPLY IGNITION SW. IN "ON" AND/OR "START"".
- RHD model except for South Africa: PG-36, "IGNITION POWER SUPPLY IGNITION SW. IN "ON" AND/OR "START""
- RHD model for South Africa: PG-49, "IGNITION POWER SUPPLY IGNITION SW. IN "ON" AND/OR "START"".

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