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CONTENTS

CAN	CAN COMMUNICATION	20
	System Description	20
PRECAUTIONS 3	Component Parts and Harness Connector Location.	20
Precautions for Supplemental Restraint System	Schematic	21
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	Wiring Diagram — CAN —	.22
SIONER" 3	CAN Communication Unit	25
Precautions When Using CONSULT-II 3	TYPE1/TYPE4	25
CHECK POINTS FOR USING CONSULT-II 3	TYPE2/TYPE3	. 27
Precautions For Trouble Diagnosis 3	TYPE5	30
CAN SYSTEM 3	TYPE6	.31
Precautions For Harness Repair 4	TYPE7	33
CAN SYSTEM4	TYPE8/TYPE9	35
TROUBLE DIAGNOSES WORK FLOW5	CAN SYSTEM (TYPE 1)	38
When Displaying CAN Communication System	Component Parts and Harness Connector Location.	38
Errors 5	Schematic	.38
WHEN A MALFUNCTION IS DETECTED BY	Wiring Diagram — CAN —	.38
CAN COMMUNICATION SYSTEM 5	CHECK SHEET	
WHEN A MALFUNCTION IS DETECTED	CHECK SHEET RESULTS (EXAMPLE)	40
EXCEPT CAN COMMUNICATION SYSTEM 5	CAN SYSTEM (TYPE 2)	
TROUBLE DIAGNOSIS FLOW CHART6	Component Parts and Harness Connector Location.	45
Diagnosis Procedure	Schematic	
SELECTING CAN SYSTEM TYPE (HOW TO	Wiring Diagram — CAN —	
USE SPECIFICATION TABLE)	CHECK SHEET	
ACQUISITION OF DATA BY CONSULT-II 8	CHECK SHEET RESULTS (EXAMPLE)	
HOW TO USE CHECK SHEET TABLE 9	CAN SYSTEM (TYPE 3)	
CAN Diagnostic Support Monitor	Component Parts and Harness Connector Location	
DESCRIPTION OF "CAN DIAG SUPPORT	Schematic	
MNTR" SCREEN FOR ECM15 DESCRIPTION OF "CAN DIAG SUPPORT	Wiring Diagram — CAN —	
MNTR" SCREEN FOR TCM16	CHECK SHEET	
DESCRIPTION OF "CAN DIAG SUPPORT	CHECK SHEET RESULTS (EXAMPLE)	
MNTR" SCREEN FOR BCM17	CAN SYSTEM (TYPE 4)	
DESCRIPTION OF "CAN DIAG SUPPORT	Component Parts and Harness Connector Location.	
MNTR" SCREEN FOR ABS ACTUATOR AND	Schematic	
ELECTRIC UNIT (CONTROL UNIT)	Wiring Diagram — CAN —	
DESCRIPTION OF "CAN DIAG SUPPORT	CHECK SHEET	
MNTR" SCREEN FOR IPDM E/R	CHECK SHEET RESULTS (EXAMPLE)	
DESCRIPTION OF "CAN DIAG SUPPORT	CAN SYSTEM (TYPE 5)	
MNTR" SCREEN FOR DISPLAY CONTROL	Component Parts and Harness Connector Location.	
WINTE SOILLING OIL DISPLAT CONTROL	Schematic	. 76

Wiring Diagram — CAN —76	CAN SYSTEM (TYPE 9)122
CHECK SHEET77	Component Parts and Harness Connector Location 122
CHECK SHEET RESULTS (EXAMPLE)78	Schematic122
CAN SYSTEM (TYPE 6)86	Wiring Diagram — CAN —122
Component Parts and Harness Connector Location 86	CHECK SHEET123
Schematic86	CHECK SHEET RESULTS (EXAMPLE)125
Wiring Diagram — CAN —86	TROUBLE DIAGNOSIS FOR SYSTEM136
CHECK SHEET87	Inspection Between TCM and Data Link Connector
CHECK SHEET RESULTS (EXAMPLE)88	Circuit136
CAN SYSTEM (TYPE 7)96	Inspection Between Data Link Connector and ABS
Component Parts and Harness Connector Location 96	Actuator and Electric Unit (Control Unit) Circuit137
Schematic96	ECM Circuit Inspection138
Wiring Diagram — CAN —96	TCM Circuit Inspection139
CHECK SHEET97	Display Control Unit Circuit Inspection139
CHECK SHEET RESULTS (EXAMPLE)99	Data Link Connector Circuit Inspection140
CAN SYSTEM (TYPE 8)109	BCM Circuit Inspection140
Component Parts and Harness Connector Location 109	Combination Meter Circuit Inspection141
Schematic109	ABS Actuator and Electric Unit (Control Unit) Circuit
Wiring Diagram — CAN —109	Inspection141
CHECK SHEET 110	IPDM E/R Circuit Inspection142
CHECK SHEET RESULTS (EXAMPLE) 112	CAN Communication Circuit Inspection143
	IPDM E/R Ignition Relay Circuit Check144

PRECAUTIONS

[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

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

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

CHECK POINTS FOR USING CONSULT-II

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

Precautions For Trouble Diagnosis CAN SYSTEM

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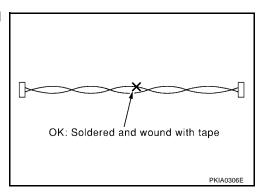
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

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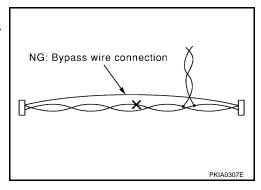
Precautions For Harness Repair CAN SYSTEM

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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.)



[CAN]

TROUBLE DIAGNOSES WORK FLOW

PFP:00004

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

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

WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

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

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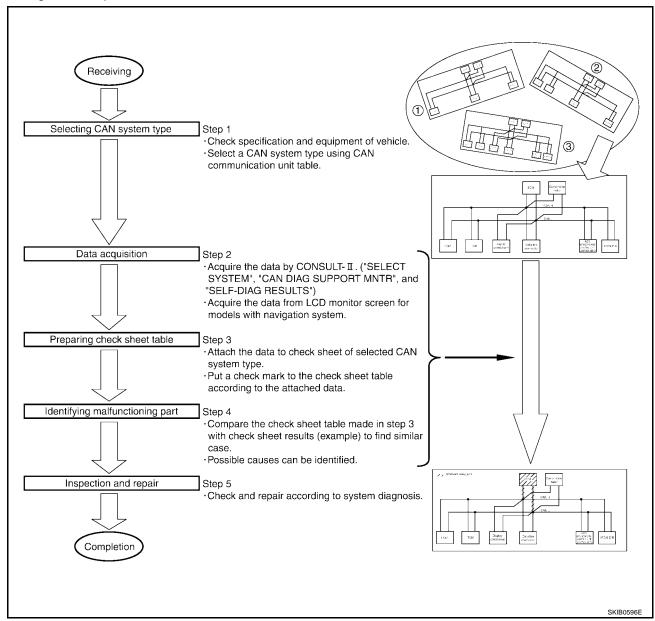
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TROUBLE DIAGNOSIS FLOW CHART

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



- Step 1: Refer to LAN-7, "SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)".
- Step 2: Refer to <u>LAN-8</u>, "ACQUISITION OF DATA BY CONSULT-II".
- Step 3: Refer to LAN-9, "HOW TO USE CHECK SHEET TABLE".
- Step 4: Refer to LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- Step 5: Refer to <u>LAN-136</u>, "TROUBLE <u>DIAGNOSIS FOR SYSTEM"</u>.

[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.

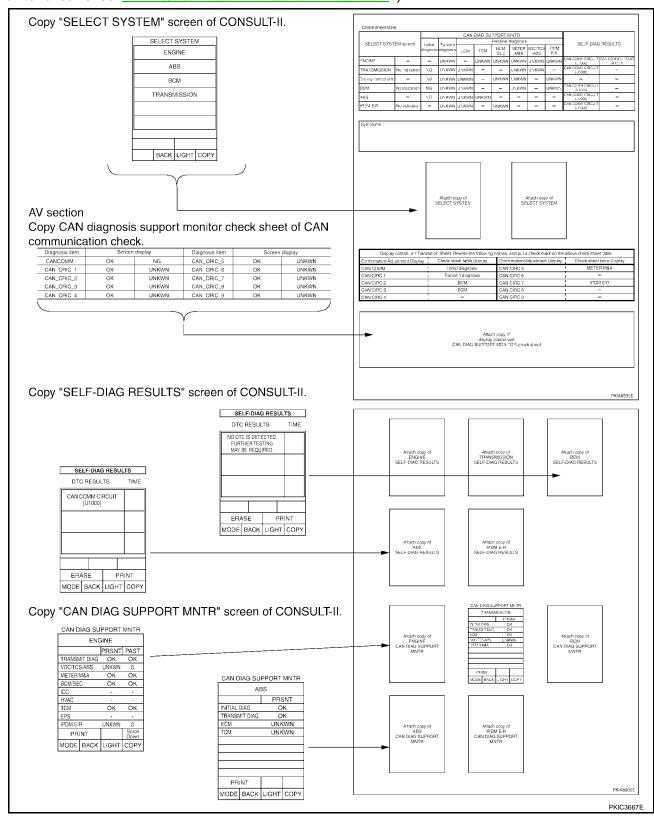
CAN Communication L	Jnit													
Go to CAN system, whe	n sel	ecting	your	CAN	syste				follov	ving t	able.			
Body type							Sedan	1)
Axle	ļ					,	2WD							
Engine		(OR25DE						VQ	5DE				Check basic specification of the vehicle
Transmission	5N	1/T		4A/T			5M/T		61	N/T		5A/T		Check basic specification of the vehicle
Brake control	No ABS	ABS	No ABS	Α	BS	No ABS	А	BS	ABS	TCS	ABS	T	cs	}
Navigation system					×			×					×	Select " x " if it is model with navigation
CAN system type		1	2		3	-	l	4	5	6	7	8	9	system.
CAN system trouble diagnosis	Xs.	-XX	<u>XX:</u>	äX	X&: .XX.	XX:	.83.	XA: XX	2X: .XX.	XXt XX	XX: XX	äX: .XX.	77. 77.	Which number is selected when sequentially selecting from the top of
×: Applicable														the specification table? The number is "CAN system type" of the applicable vehicle.
														In the case of this example: It corresponds to type 9.

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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 LCD monitor screen of the vehicle to the CAN diagnosis support monitor check sheet AV-126, "CAN Communication Line Check".)

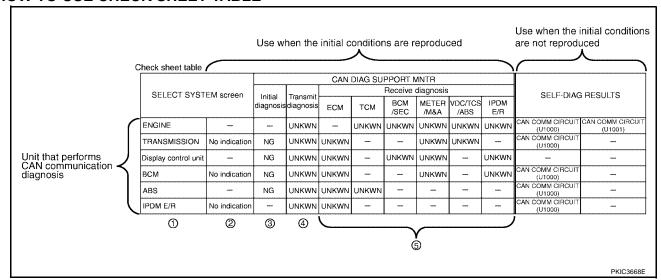


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HOW TO USE CHECK SHEET TABLE



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

NOTE

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

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

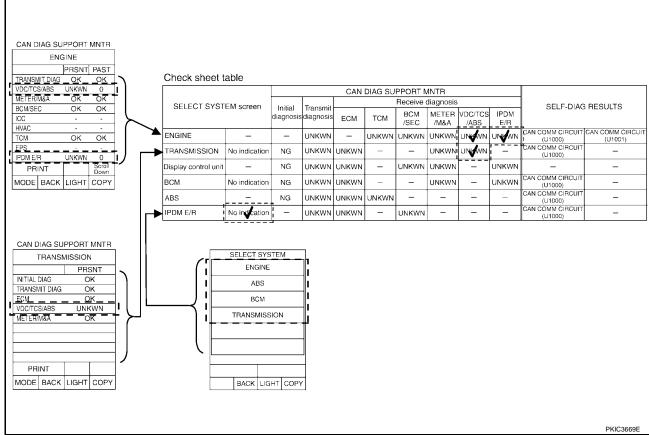
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Revision: November 2006 LAN-9 2006 Altima





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

NOTE:

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

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

NOTE:

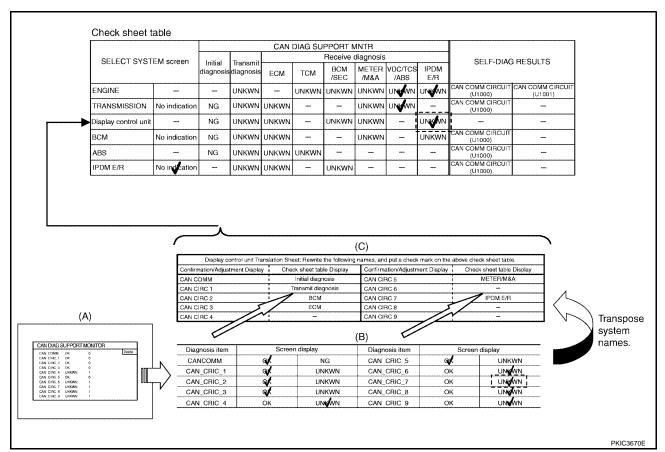
In "CAN DIAG SUPPORT MNTR" screen, "UNKWN" is displayed on "VDC/TCS/ABS" and "IPDM E/R". Put a check mark to it.

3. Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "TRANSMISSION" 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". Put a check mark to it.

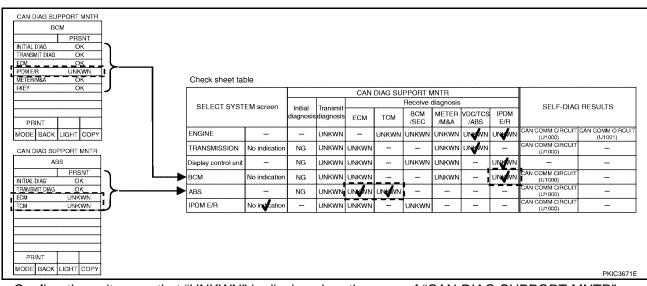
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4. Display control unit reads the CAN diagnosis support monitor check sheet (B) <u>AV-126, "CAN Communication Line Check"</u> transferred from the LCD monitor screen (A). The transferred CAN diagnosis support monitor check sheet is copied to the check sheet, and conversed according to the Display control unit Translation Sheet (C). And then put a check mark to the check sheet table.

NOTE:

In the CAN diagnosis support monitor check sheet (B), check marks are put to "CAN CIRC 4", "CAN CIRC 6", "CAN CIRC 7", "CAN CIRC 8" and "CAN CIRC 9". But, in the column of the check sheet table indication in Display control unit Translation Sheet (C), "IPDM E/R" is listed only for "CAN CIRC 7". Therefore, put a check mark to "IPDM E/R" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.



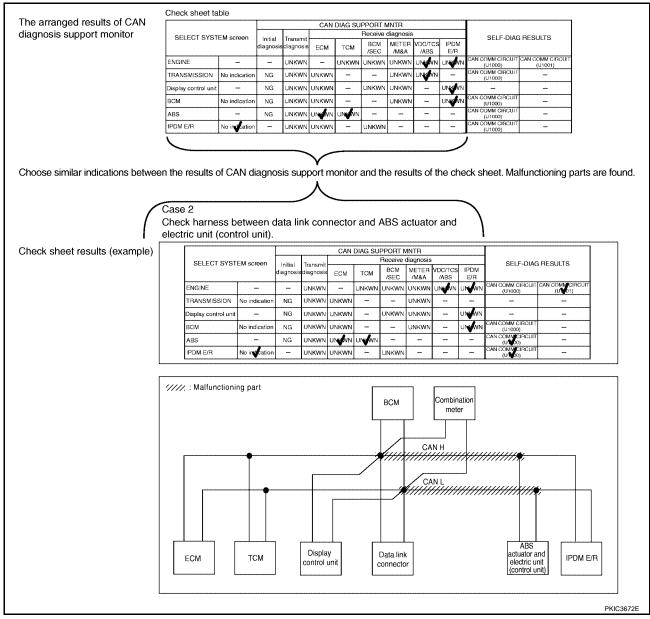
Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "BCM" and "ABS" as well as "ENGINE". And then, put a check mark to the check sheet table.

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NOTE:

- For "BCM", "UNKWN" is displayed on "IPDM E/R". Put a check mark to it.
- For "ABS", "UNKWN" is displayed on "ECM" and "TCM". Put a check mark to it.



NOTE:

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

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

Start CAN system trouble diagnosis if this procedure can be confirmed. Refer to <u>LAN-25</u>, "CAN Communication Unit".

[CAN]

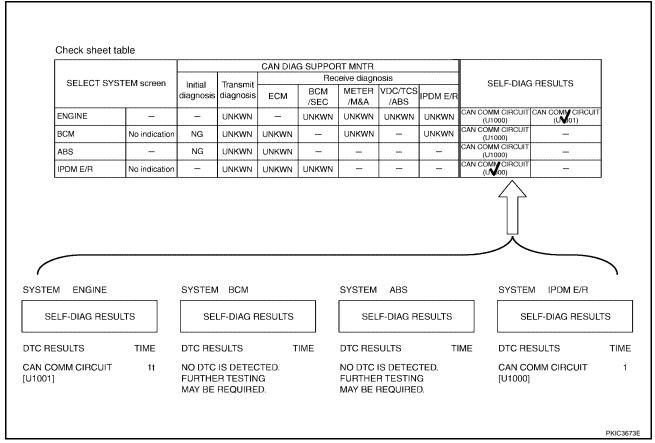
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Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced

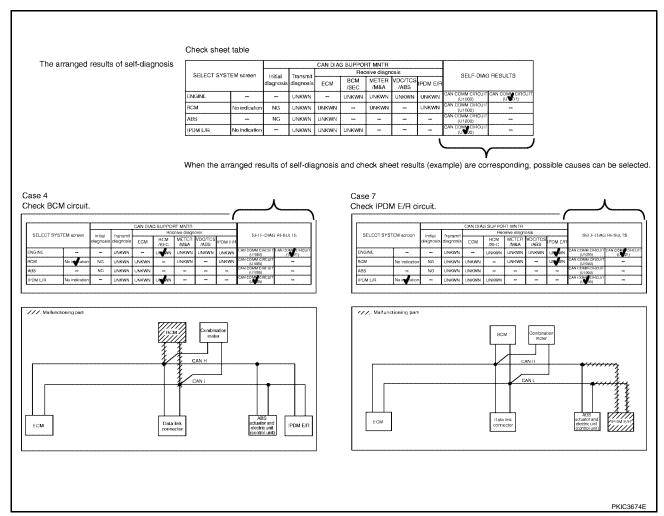


 See "SELF-DIAG RESULTS" of all units attached to the check sheet. If "CAN COMM CIRCUIT", "CAN COMM CIRCUIT [U1000]" or "CAN COMM CIRCUIT [U1001]" is displayed, put a check mark to the applicable column of self-diagnostic results of the check sheet table.

NOTE:

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

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NOTE:

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

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

[CAN]

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

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(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR
, , ,	ENGINE	ENGINE
	PRSNT PAST	PRSNT PAST
	TRANSMIT DIAG OK OK	METER/M&A OK OK
	VDC/TCS/ABS OK OK	BCM/SEC OK OK
	METER/M&A OK OK	ICC
	BCM/SEC OK OK	HVAC
	ICC	TCM OK OK
	HVAC	EPS
	TCM OK OK	IPDM E/R OK OK
	EPS	e4WD
	IPDM E/R OK OK	AWD/4WD
	PRINT Scroll Down	PRINT Scroll Up
	MODE BACK LIGHT COPY	MODE BACK LIGHT COPY PKIC405

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past	Е
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-		
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-		F
ENGINE	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN/-		(-
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	OK/0/1 – 39/–	(
	ICC	ICC is not diagnosed.	_		
	HVAC	HVAC is not diagnosed.	_		-
	TCM	Make sure of normal reception from TCM.	OK/UNKWN/-		
	EPS	EPS is not diagnosed.	_		
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-		
	e4WD	e4WD is not diagnosed.	_		
	AWD/4WD	AWD/4WD is not diagnosed.	_		J

Display Results (Present)

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

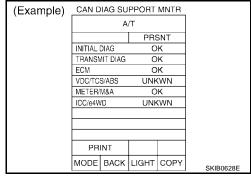
Display Results (Past)

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

[CAN]

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TCM

4A/T models



"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
A/T	ECM	Make sure of normal reception from ECM.	OK/UNKWN
AVI	VDC/TCS/ABS	VDC/TCS/ABS is not diagnosed.	UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN
	ICC/e4WD	ICC/e4WD is not diagnosed.	UNKWN

Display Results (Present)

OK: Normal

• NG: Malfunction

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

5A/T models

(Example)	CAN E	IAG SU			
. ,	TRANSMISSION				
	INITIAL	DIAG	С	K	
	TRANS	AIT DIAG	О	K	
	ECM OK			K	
	VDC/TC	S/ABS	С	K	
	METER/	M&A	С	K	
	PR	INT			
	MODE	BACK	LIGHT	COPY	SKIB0592E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
TRANSMISSION	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN

Display Results (Present)

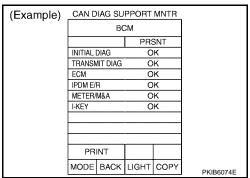
OK: Normal

NG: Malfunction

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

[CAN]

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR BCM



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

Display Results (Present)

OK: Normal

NG: Malfunction

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

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

ABS models

CAN DIAG SU		
A		
INITIAL DIAG	OK	
TRANSMIT DIAG	OK	
ECM	OK	
PRINT		
MODE BACK	LIGHT COPY	PKIA8949E
	INITIAL DIAG TRANSMIT DIAG ECM PRINT	TRANSMIT DIAG OK ECM OK PRINT

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

Display Results (Present)

OK: Normal

NG: Malfunction

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

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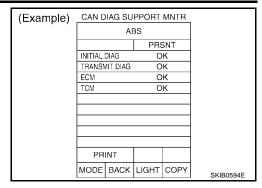
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[CAN]

TCS models



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

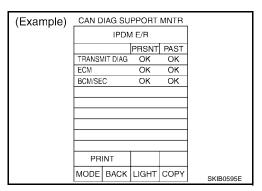
Display Results (Present)

OK: Normal

NG: Malfunction

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

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



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

Display Results (Present)

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

Display Results (Past)

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

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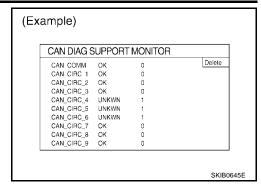
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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DISPLAY CONTROL UNIT



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

Display Results (Present)

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

Display Results: Error Counter (Reference)

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

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PFP:23710

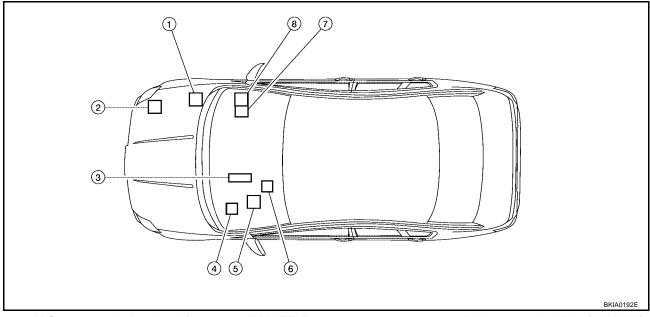
System Description

UKS001OC

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

UKS004PH



- ABS actuator and electric unit (control unit) E125 (with ABS)
- 1. BCM M18
- 7. TCM F56 (with A/T)

- IPDM E/R E121
- Combination meter M24
- 8. ECM F54

- 3. Display control unit M95 (with NAVI)
- 6. Data link connector M22

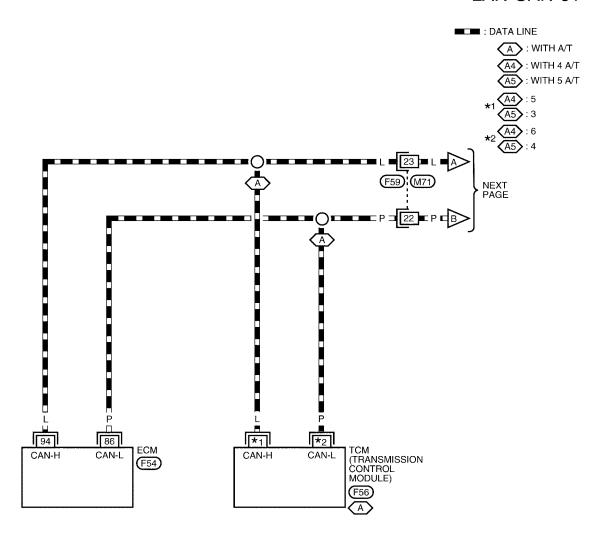
[CAN]

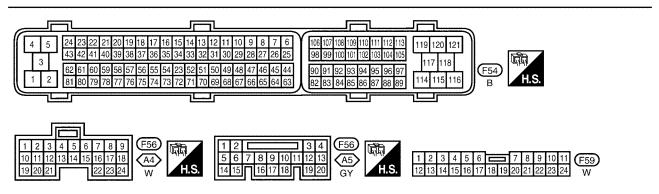
Schematic UKS004PI Α В 48 С ABS ACTUATOR
AND ELECTRIC
UNIT)
(WT) 30 D Е F COMBINATION METER 56 Н BCM (BODY CONTROL MODULE) 9 (2) DATA LINK CONNECTOR LAN DISPLAY CONTROL UNIT \mathbb{N} TCM (TRANSMISSION CONTROL MODULE) (A): WITH AAT
(AA): WITH 4 AAT
(AS): WITH 5 AAT
(W): WITH NAW
(WT): WITH 5 AAT
OR 6 MAT 88 ECM BKWA0636E

Wiring Diagram — CAN —

V0004D1

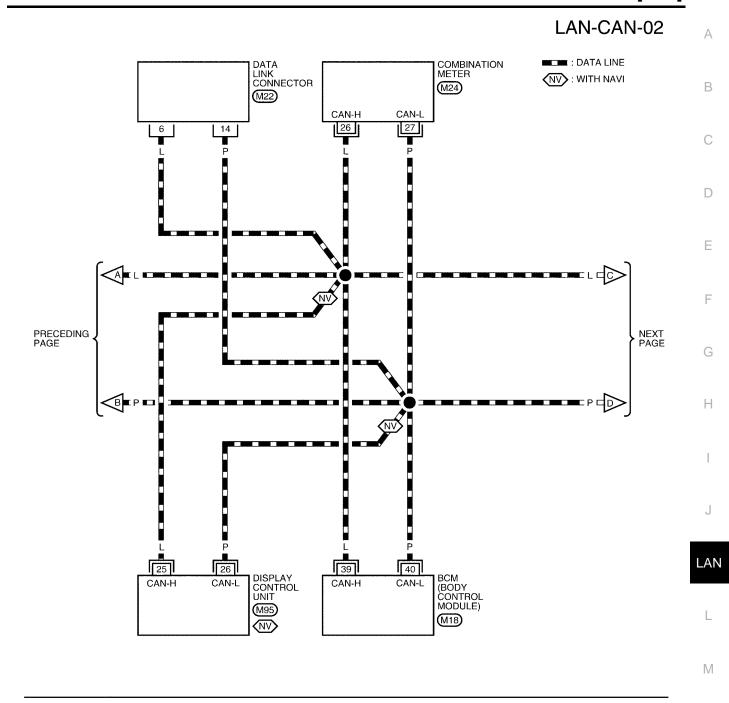
LAN-CAN-01

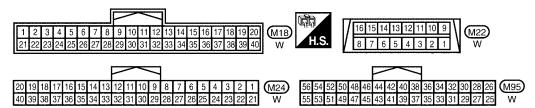




BKWA0637E

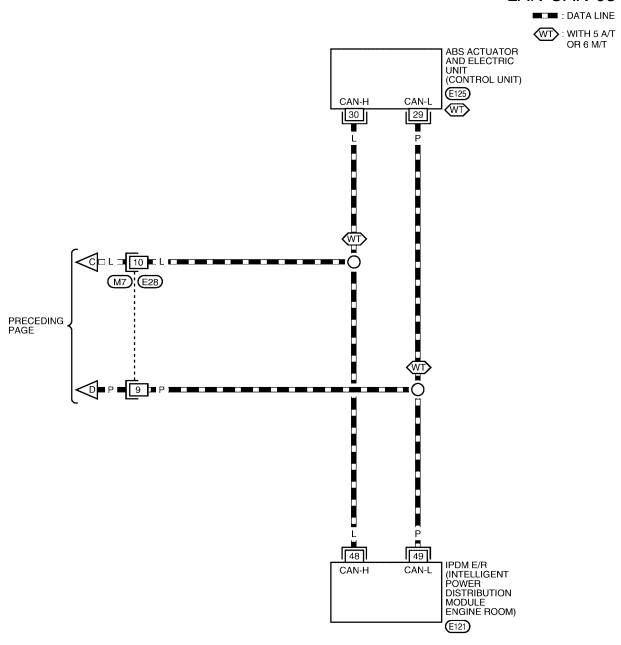
[CAN]

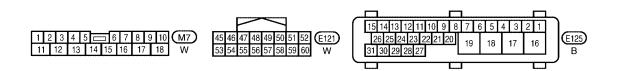




BKWA0638E

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WKWA4950E

[CAN]

CAN Communication Unit

UKS0010E

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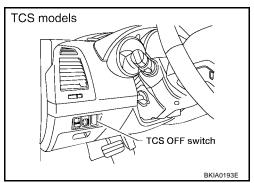
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Go to CAN system, when selecting your CAN system type from the following table.

Body type		Sedan											
Axle		2WD											
Engine		QR25DE VQ35DE											
Transmission	51\	Л/T	4A/T			5M/T 6M/T			M/T	5A/T			
Brake control	No ABS	ABS	No ABS	А	BS	No ABS	А	BS	ABS	TCS	ABS	T	CS
Navigation system					×			×					×
CAN system type		1		2	3		1	4	5	6	7	8	9
CAN system trouble diagnosis	LAN	<u>N-38</u>	LAI	LAN-45 LAN- 55			<u>N-38</u>	<u>LAN-</u> <u>67</u>	<u>LAN-</u> <u>76</u>	<u>LAN-</u> <u>86</u>	<u>LAN-</u> <u>96</u>	<u>LAN-</u> 109	<u>LAN-</u> <u>122</u>

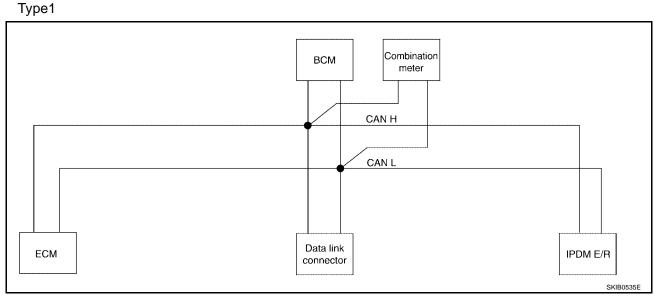
^{×:} Applicable

Vehicles equipped with TCS can be identified by the presence of a TCS OFF switch.



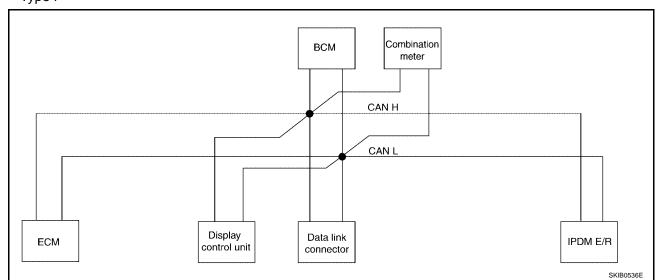
TYPE1/TYPE4 System diagram

- Tuno 1



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Input/output signal chart

T: Transmit R: Receive

I: Iransmit R: Receiv								
Signals	ECM	Display control unit*	BCM	Combination meter	IPDM E/R			
A/C compressor request signal	Т				R			
ASCD CRUISE lamp signal	Т			R				
ASCD SET lamp signal	Т			R				
Cooling fan speed request signal	Т				R			
Engine coolant temperature signal	Т			R				
Engine speed signal	Т	R		R				
Fuel consumption monitor signal	Т			R				
		R		Т				
Malfunction indicator lamp signal	Т			R				
A/C switch signal	R		Т					
Blower fan switch signal	R		Т					
Buzzer output signal			Т	R				
Door switch signal		R	Т	R	R			
Front fog light request signal			Т		R			
Front wiper request signal			Т		R			
High beam request signal			Т	R	R			
Horn chirp signal			Т		R			
Low beam request signal			Т		R			
Position lights request signal			Т	R	R			
Rear window defogger switch signal			Т		R			
Sleep request1 signal			Т	R				
Sleep request2 signal			Т		R			
Theft warning horn request signal			Т		R			
Trunk switch signal			Т	R				

[CAN]

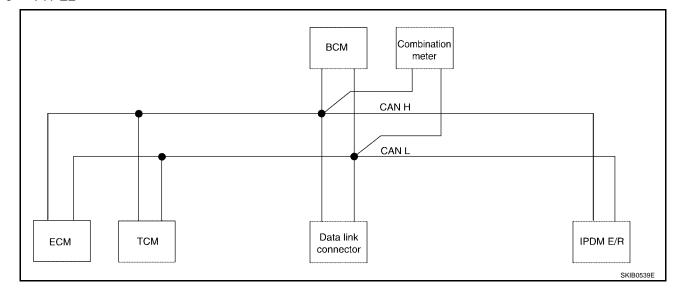
Signals	ECM	Display control unit*	BCM	Combination meter	IPDM E/R
Turn indicator signal			Т	R	
Distance to empty signal		R		Т	
Fuel level low warning signal		R		Т	
Fuel level sensor signal	R			Т	
Seat belt buckle switch signal			R	Т	
Vehicle speed signal	R	R		Т	
High beam status signal	R				Т
Hood switch signal			R		Т
Low beam status signal	R				Т
Oil pressure switch signal				R	Т
Rear window defogger control signal	R	R	R		Т
Theft warning horn status signal			R		Т
Wiper stop position signal			R		Т

NOTE:

TYPE2/TYPE3

System diagram

TYPE2



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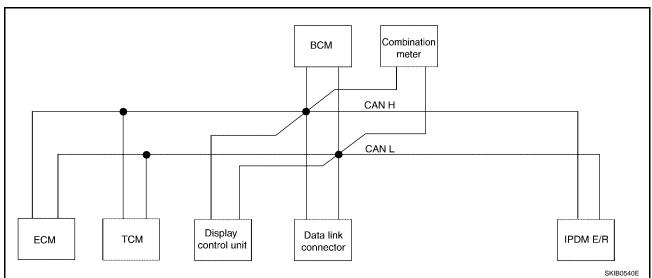
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LAN

^{*:} Navigation system only

TYPE3



Input/output signal chart					T: Trans	mit R: Receive
Signals	ECM	TCM	Display control unit*	ВСМ	Combination meter	IPDM E/R
A/C compressor request signal	Т					R
Accelerator pedal position signal	Т	R				
ASCD CRUISE lamp signal	Т				R	
ASCD SET lamp signal	Т				R	
Closed throttle position signal	Т	R				
Cooling fan speed request signal	Т					R
Engine and A/T integrated control signal	Т	R				
Engine and A/T integrated control signal	R	Т				
Engine coolant temperature signal	Т				R	
Engine speed signal	Т		R		R	
Fuel consumention requites signal	Т				R	
Fuel consumption monitor signal			R		Т	
Malfunction indicator lamp signal	Т				R	
Wide open throttle position signal	Т	R				
A/T check indicator lamp signal		Т			R	
A/T position indicator signal		Т			R	
A/T self-diagnosis signal	R	Т				
Output shaft revolution signal	R	Т				
A/C switch signal	R			Т		
Blower fan switch signal	R			Т		
Buzzer output signal				Т	R	
Door switch signal			R	Т	R	R
Front fog light request signal				Т		R
Front wiper request signal				Т		R

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Signals	ECM	TCM	Display control unit*	BCM	Combination meter	IPDM E/R
High beam request signal				Т	R	R
Horn chirp signal				Т		R
Low beam request signal				Т		R
Position lights request signal				Т	R	R
Rear window defogger switch signal				Т		R
Sleep request1 signal				Т	R	
Sleep request2 signal				Т		R
Theft warning horn request signal				Т		R
Trunk switch signal				Т	R	
Turn indicator signal				Т	R	
3rd position switch signal		R			Т	
Distance to empty signal			R		Т	
Fuel level low warning signal			R		Т	
Fuel level sensor signal	R				Т	
Seat belt buckle switch signal				R	Т	
Stop lamp switch signal		R			Т	
Vehicle speed signal	R		R	R	Т	
High beam status signal	R					Т
Hood switch signal				R		Т
Low beam status signal	R					Т
Oil pressure switch signal					R	Т
Rear window defogger control signal	R		R	R		Т
Theft warning horn status signal				R		Т
Wiper stop position signal				R		Т

NOTE:

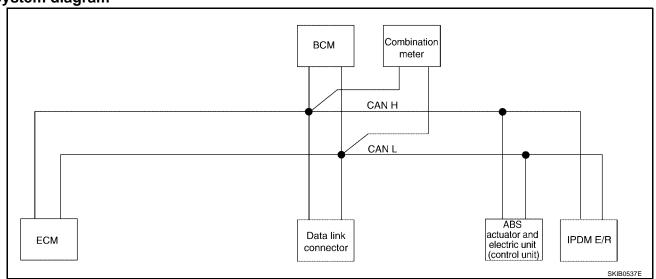
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^{*:} Navigation system only

TYPE5

System diagram



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т				R
ASCD CRUISE lamp signal	Т		R		
ASCD SET lamp signal	Т		R		
Cooling fan speed request signal	Т				R
Engine coolant temperature signal	Т		R		
Engine speed signal	Т		R		
Fuel consumption monitor signal	Т		R		
Malfunction indicator lamp signal	Т		R		
A/C switch signal	R	Т			
Blower fan switch signal	R	Т			
Buzzer output signal	_	Т	R		
Door switch signal		Т	R		R
Front fog light request signal		Т			R
Front wiper request signal		Т			R
High beam request signal		Т	R		R
Horn chirp signal		Т			R
Low beam request signal		Т			R

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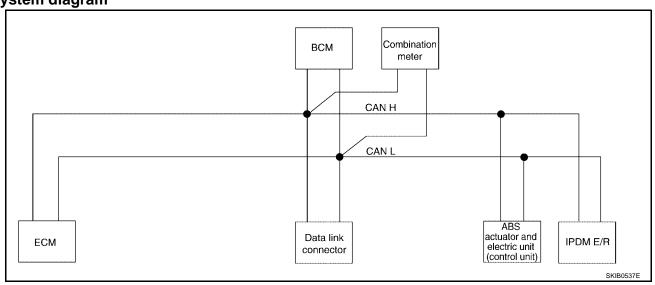
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Signals	ECM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
Position lights request signal		Т	R		R
Rear window defogger switch signal		Т			R
Sleep request1 signal		Т	R		
Sleep request2 signal		Т			R
Theft warning horn request signal		Т			R
Trunk switch signal		Т	R		
Turn indicator signal		Т	R		
Fuel level sensor signal	R		Т		
Seat belt buckle switch signal		R	Т		
Vehicle speed signal			R	Т	
vernole speed signal	R	R	Т		
High beam status signal	R				Т
Hood switch signal		R			Т
Low beam status signal	R				Т
Oil pressure switch signal			R		Т
Rear window defogger control signal	R	R			Т
Theft warning horn status signal		R			Т
Wiper stop position signal		R			Т

TYPE6

System diagram



Revision: November 2006 LAN-31 2006 Altima

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Input/output signal chart

				T: Tra	ansmit R: Receive
Signals	ECM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	T				R
ASCD CRUISE lamp signal	Т		R		
ASCD SET lamp signal	Т		R		
Cooling fan speed request signal	Т				R
Engine coolant temperature signal	Т		R		
Engine speed signal	T		R	R	
Fuel consumption monitor signal	Т		R		
Malfunction indicator lamp signal	T		R		
A/C switch signal	R	Т			
Blower fan switch signal	R	Т			
Buzzer output signal		Т	R		
Door switch signal		Т	R		R
Front fog light request signal		Т			R
Front wiper request signal		Т			R
High beam request signal		Т	R		R
Horn chirp signal		Т			R
Low beam request signal		Т			R
Position lights request signal		Т	R		R
Rear window defogger switch signal		Т			R
Sleep request1 signal		Т	R		
Sleep request2 signal		Т			R
Theft warning horn request signal		Т			R
Trunk switch signal		Т	R		
Turn indicator signal		Т	R		
			R	Т	
Vehicle speed signal	R	R	Т		
Fuel level sensor signal	R		Т		
Seat belt buckle switch signal		R	Т		
High beam status signal	R				Т
Hood switch signal		R			Т
Low beam status signal	R				Т
Oil pressure switch signal			R		Т
Rear window defogger control signal	R	R			Т

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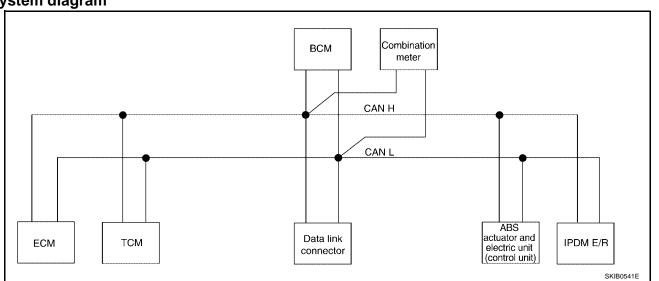
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Signals	ECM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
Theft warning horn status signal		R			Т
Wiper stop position signal		R			Т

TYPE7

System diagram



Input/output signal chart

					T: Trans	smit R: Receive
Signals	ECM	TCM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т					R
ASCD CRUISE lamp signal	Т			R		
ASCD OD cancel request signal	Т	R				
ASCD operation signal	Т	R				

Revision: November 2006 LAN-33 2006 Altima

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Signals	ECM	TCM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
ASCD SET lamp signal	Т			R		
Cooling fan speed request signal	Т					R
Electric throttle control signal	Т	R				
Engine coolant temperature signal	Т	R		R		
Engine speed signal	Т	R		R		
Fuel consumption monitor signal	Т			R		
Malfunction indicator lamp signal	Т			R		
A/T position indicator signal		Т		R		
A/T self-diagnostic signal	R	Т				
A/T warning lamp signal		Т		R		
Manual mode indicator signal		Т		R		
Output shaft revolution signal	R	Т				
Turbine revolution signal	R	Ţ				
A/C switch signal	R		Ţ			
Blower fan switch signal	R		Т			
Buzzer output signal			Ţ	R		
Door switch signal			Т	R		R
Front fog light request signal			Ţ			R
Front wiper request signal			Т			R
High beam request signal			Т	R		R
Horn chirp signal			Т			R
Low beam request signal			Т			R
Position lights request signal			Т	R		R
Rear window defogger switch signal			Т			R
Sleep request1 signal			Ţ	R		
Sleep request2 signal			Т			R
Theft warning horn request signal			Т			R
Trunk switch signal			Т	R		
Turn indicator signal			Т	R		
Fuel level sensor signal	R			Т		
Seat belt buckle switch signal			R	Т		
Stop lamp switch signal		R		Т		
Vehicle speed signal				R	Т	
	R	R	R	Т		

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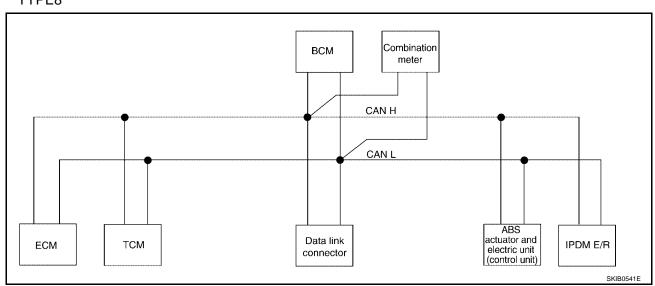
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Signals	ECM	TCM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
ABS operation signal		R			Т	
High beam status signal	R					Т
Hood switch signal			R			Т
Low beam status signal	R					Т
Oil pressure switch signal				R		Т
Rear window defogger control signal	R		R			Т
Theft warning horn status signal			R			Т
Wiper stop position signal			R			Т

TYPE8/TYPE9 System diagram

• TYPE8



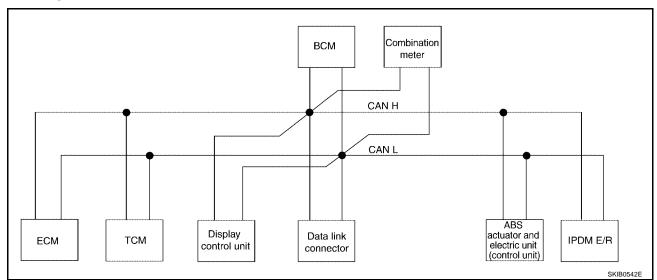
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TYPE9



Input/output signal chart

T: Transmit R: Receive

						i. mansiiii	t R. Receive
Signals	ECM	TCM	Display control unit*	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т						R
Accelerator pedal position signal	Т					R	
ASCD CRUISE lamp signal	Т				R		
ASCD OD cancel request signal	Т	R					
ASCD operation signal	Т	R					
ASCD SET lamp signal	Т				R		
Cooling fan speed request signal	Т						R
Electric throttle control signal	Т	R					
Engine coolant temperature signal	Т	R			R		
Engine speed signal	Т	R	R		R	R	
Fuel consumption monitor signal	Т				R		
			R		T		
Malfunction indicator lamp signal	Т				R		
A/T position indicator signal		Т			R	R	
A/T self-diagnosis signal	R	Т					
A/T warning lamp signal		Т			R		
Manual mode indicator signal		Т			R		
Output shaft revolution signal	R	Т					

CAN COMMUNICATION

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Signals	ECM	TCM	Display control unit*	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
Turbine revolution signal	R	Т					
A/C switch signal	R			Т			
Blower fan switch signal	R			Т			
Buzzer output signal				Т	R		
Door switch signal			R	Т	R		R
Front fog light request signal				Т			R
Front wiper request signal				Т			R
High beam request signal				Т	R		R
Horn chirp signal				Т			R
Low beam request signal				Т			R
Position lights request signal				Т	R		R
Rear window defogger switch signal				Т			R
Sleep request1 signal				Т	R		
Sleep request2 signal				Т			R
Theft warning horn request signal				Т			R
Trunk switch signal				Т	R		
Turn indicator signal				Т	R		
Distance to empty signal			R		Т		
Fuel level low warning signal			R		Т		
Fuel level sensor signal	R				Т		
Seat belt buckle switch signal				R	Т		
Stop lamp switch signal		R			Т		
Vehicle speed signal					R	Т	
vornoio apoca aigilai	R	R	R	R	Т		
ABS operation signal		R				Т	
High beam status signal	R						Т
Hood switch signal				R			Т
Low beam status signal	R						Т
Oil pressure switch signal					R		Т
Rear window defogger control signal	R		R	R			Т
Theft warning horn status signal				R			Т
Wiper stop position signal				R			Т

NOTE:

^{*:} Navigation system only

CAN SYSTEM (TYPE 1) Component Parts and Harness Connector Location Refer to LAN-20, "Component Parts and Harness Connector Location" Schematic Refer to LAN-21, "Schematic" Wiring Diagram — CAN —

Refer to LAN-22, "Wiring Diagram — CAN —" .

[CAN]

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CHECK SHEET UKS001RW

NOTE:

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Check sheet				AN DIAC CI	IDDODT MAI	TD			
				AN DIAG SC	JPPORT MN Receive	diagnosis		·	
SELECT S	YSTEM screen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R		3 RESULTS
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	(U1000)	CAN COMM CIRCUIT (U1001)
всм	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	
Symptoms :									
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		At SEL	tach copy of ECT SYSTEI	м			copy of SYSTEM		
		922				022201	0.0.2		
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			7						7
	Attach c	opv of		Atta	ch copy of			Attach copy of	
	ENGI SELF-DIAG	INE			BCM IAG RESULT	- Q		IPDM E/R F-DIAG RESULTS	
	SELI-DIAG	HESOLIS		J SEEF-D	IAG NESOLI		JELI	-DIAG TIESOETS	
			J						
			٦						٦
	Attach c	opy of		Atta	ch copy of		/	Attach copy of	
	ENGI CAN DIAG S	SUPPORT			BCM AG SUPPOF	RT	CAN	IPDM E/R DIAG SUPPORT	
	MN1	ΓR			MNTR			MNTR	

CHECK SHEET RESULTS (EXAMPLE)

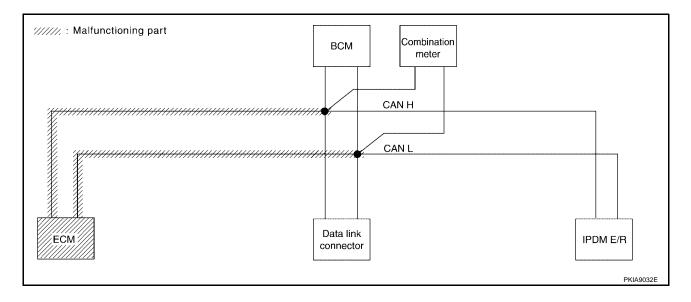
NOTE:

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

Case 1

Check ECM circuit. Refer to <u>LAN-138</u>, "ECM Circuit Inspection".

			C.A	AN DIAG SU	PPORT MN	TR				
SELECT SYS	TEM screen	Initial	Transmit		Receive	diagnosis		SELF-DIAG	RESULTS	
SELECT STO	LIVI SCIECTI	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R			
ENGINE	_		UNK WN	_	UNK WN	UNKWN	UNKWN	CAN COMM CIRCUIT CAN COMM CIRCU		
ВСМ	No indication	NG	UNKWN	UNK WN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (UV00)	_	
									PKIC3567E	



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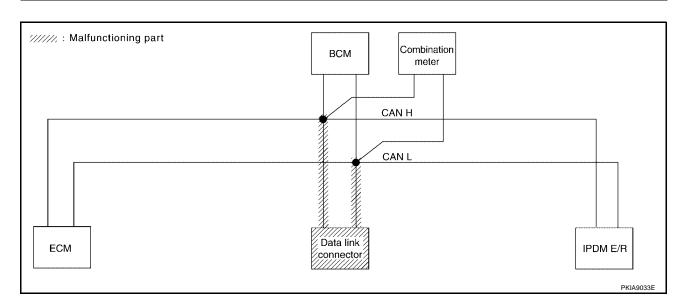
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Case 2
Check data link connector circuit. Refer to <u>LAN-140</u>, "<u>Data Link Connector Circuit Inspection</u>" .

			C/	AN DIAG SU	PPORT MN	TR				
SELECT S	YSTEM screen	Initial	Transmit		Receive	diagnosis		SELE-DIAG	RESULTS	
OLLLO1 O	TO TENT SCIECTI	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	CAN COMM CIRCUIT CAN COMM CIRCU		
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)	
BCM	No indication	NG	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)		
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_	

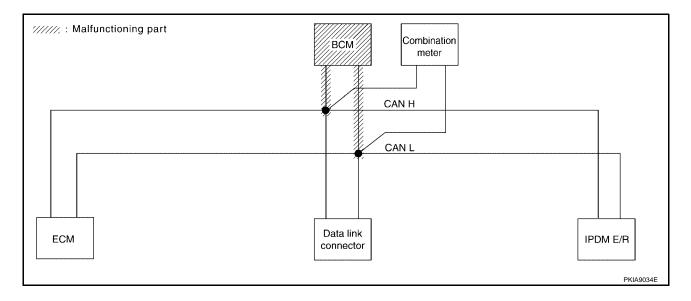


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Case 3
Check BCM circuit. Refer to <u>LAN-140, "BCM Circuit Inspection"</u>.

			C <i>A</i>	AN DIAG SU	PPORT MN	TR		- SELF-DIAG RESULTS			
SELECT SYS	STEM screen	Initial	Transmit		Receive	diagnosis					
OLLLO1 OTC	JIEW GOICEII	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SELI-DIAC			
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 101)		
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_		
IPDM E/R	No indication	_	UNKWN	UNKWN UNKWN				CAN COMM CIRCUIT (UN00)			



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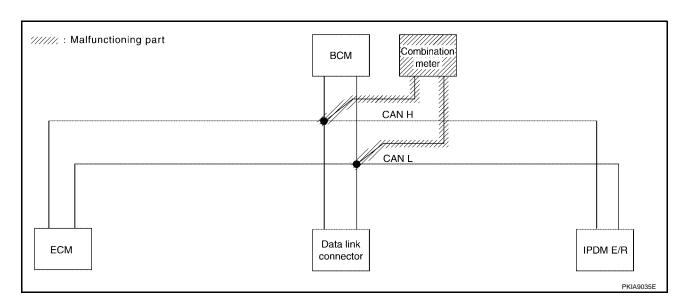
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Case 4

Check combination meter circuit. Refer to <u>LAN-141</u>, "Combination Meter Circuit Inspection" .

			C/	AN DIAG SU	PPORT MN	TR				
SELECT SYS	STEM screen	Initial	Transmit		Receive	diagnosis		SELE-DIAG	RESULTS	
OLLLO1 OIN	STEW SCIECT	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	CAN COMM CIRCUIT CAN COMMICIRCU		
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)	
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)		
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_	

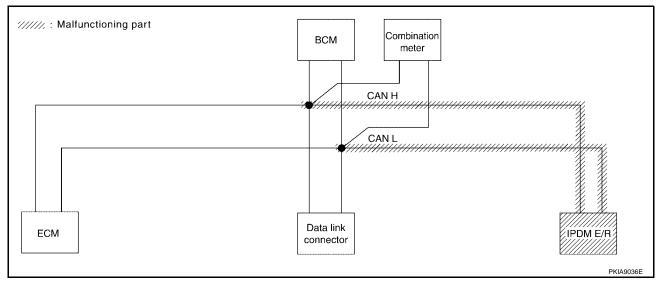


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Case 5
Check IPDM E/R circuit. Refer to <u>LAN-142, "IPDM E/R Circuit Inspection"</u>.

			C.A	N DIAG SU	PPORT MN	TR				
SELECT SYST	EM screen	la iti a l	Transmit		Receive	diagnosis		SELE-DIAG	DECLITO	
OLLLO1 0101	LIVI Screen	Initial diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R			
ENGINE	_		UNKWN	-	UNKWN	UNKWN	UNWN	CAN COMM CIRCUIT CAN COMM CIRC (U1000) (U1001)		
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN	UNK WN	CAN COMM CIRCUIT (U1000)		
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U 100)	_		
									PKIC3571E	



Case 6
Check CAN communication circuit. Refer to <u>LAN-143</u>, "CAN Communication Circuit Inspection" .

			CA	N DIAG SU	PPORT MN	TR			
SELECT SYS	TEM coroon					diagnosis	SELF-DIAG	DECLUTO	
SELECT STS	TEW SCIECT	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SELF-DIAG	A RESULIS
ENGINE	_	_	UNKWN	_	UNION UNION CAN COMM CIRCUIT CAN COMM (U1000)				CAN COMM CIRCUIT (UN01)
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U 100)	
									PKIC3572E

CAN SYSTEM (TYPE 2)		
**************************************	[CAN]	
CAN SYSTEM (TYPE 2)	PFP:23710	
Component Parts and Harness Connector Location	UK\$001Y3	А
Refer to LAN-20, "Component Parts and Harness Connector Location".		
Schematic	UKS001Y4	В
Refer to LAN-21, "Schematic" .		
Wiring Diagram — CAN —	UK\$001Y5	С
Refer to LAN-22, "Wiring Diagram — CAN —" .		
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CHECK SHEET

NOTE:

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

				CAN DIA	G SUPPOI					
SELECT	SYSTEM screen	Initial	Transmit		Red	eive diagn	•	1	SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	ТСМ	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE			UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
VT	_	NG	UNKWN	UNKWN	-	_	UNKWN		CAN COMM CIRCUIT (U1000)	<u></u>
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_		CAN COMM CIRCUIT (U1000)	
Symptoms			Attach copy LECT SYS				Attach co	opy of YSTEM		
	Attach copy of ENGINE SELF-DIAG RESU			ch copy of A/T IAG RESU			ch copy of BCM AG RESUL	LTS	Attach copy o IPDM E/R SELF-DIAG RESU	
	Attach copy of ENGINE CAN DIAG SUPPO MNTR		CAN DIA	ch copy of A/T AG SUPPC MNTR		CAN DIA	ch copy of BCM IG SUPPO MNTR	PRT	Attach copy o IPDM E/R CAN DIAG SUPP MNTR	

CHECK SHEET RESULTS (EXAMPLE)

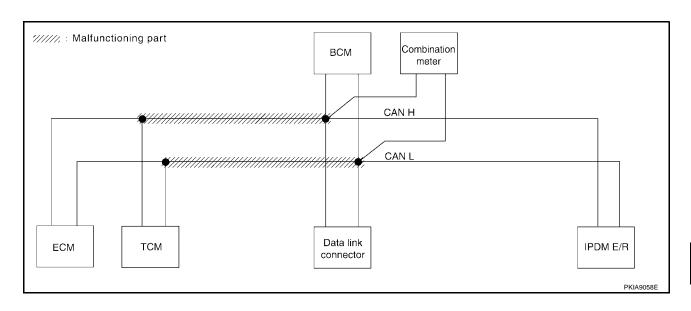
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-136</u>, "Inspection Between TCM and <u>Data Link Connector Circuit"</u>.

				CAN DIA	G SUPPOR	RT MNTR					
SELECT SV	STEM screen	Initial	Transmit		Rec	eive diagn		SELF-DIAG RESULTS			
OLLLO1 OT	OT LIW SCIECT	Initial diagnosis	Transmit diagnosis	ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R			
ENGINE	_		UNKWN	_	UNKWN	UNIV	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U 101)	
A/T	_	NG	UNKWN	UNKWN	_			-	_	4	
всм	No indication	NG	UNKWN	UNIKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	_	UNKWN	UNIVN	-	UNKWN	_	_	CAN COMM CIRCUIT (U 100)		



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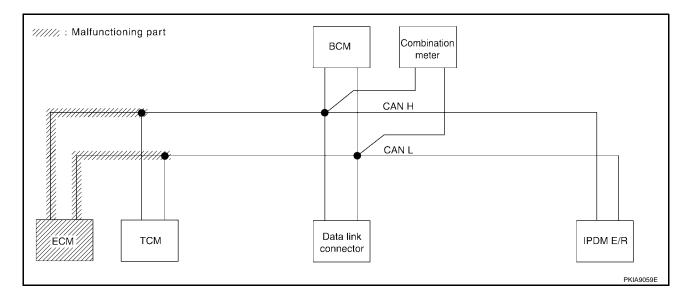
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Case 2
Check ECM circuit. Refer to <u>LAN-138</u>, "ECM Circuit Inspection" .

				CAN DIA	G SUPPOR	RT MNTR					
SELECT SYS	STEM screen	Initial	Transmit		Red	eive diagn	osis		SELF-DIAG RESULTS		
OLLLO1 OTC	JI LW SCICCII		diagnosis	ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R			
ENGINE			UNKWN	_	UNION	UNI WN	UNI WN	UNIKWN	CAN COMM CIRCUIT (UN00)	CAN COMM/CIRCUIT (UM01)	
A/T	_	NG	UNKWN	_	_		UNKWN	_			
ВСМ	No indication	NG	UNKWN	UNIKWN		_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_		CAN COMM CIRCUIT (UN00)		
II DIVI E/II	No indication		ONKWIN	Olakwii		CINICON			(U ₩ 00)	PKIC357	



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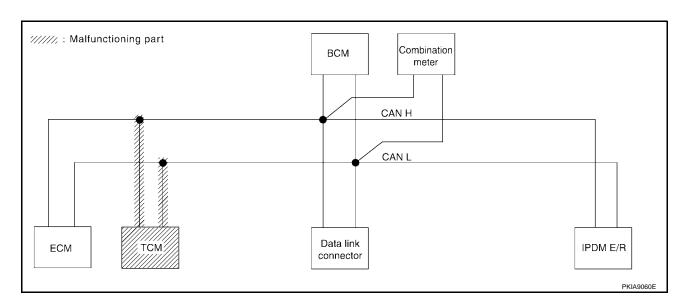
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Case 3
Check TCM circuit. Refer to <u>LAN-139</u>, "TCM Circuit Inspection" .

				CAN DIA	G SUPPOF	RT MNTR					
SELECT SYS	TEM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG	RESULTS	
022201010	LW Scicen		diagnosis	ECM	тсм	BCM /SEC	METER /M&A	IPDM E/R			
ENGINE			UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (U M01)	
A/T	_	NG	_	_	_		-	_			
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)		
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	<u></u>	

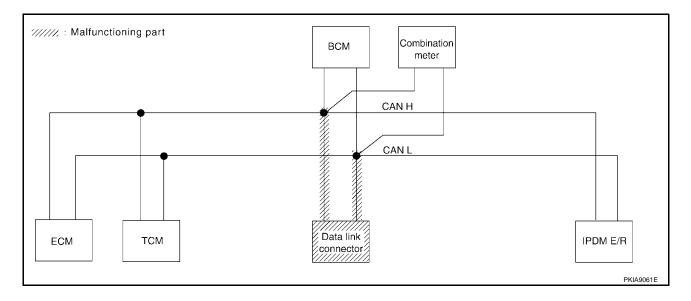


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Case 4
Check data link connector circuit. Refer to <u>LAN-140</u>, "<u>Data Link Connector Circuit Inspection</u>" .

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SY	STEM screen	Initial	Transmit		Red	eive diagn	osis		SELE-DIAC	RESULTS
OLLLO1 01	OTEM SOICE		diagnosis	ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		TIEGOETO
ENGINE			UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	_		UNKWN		CAN COMM CIRCUIT (U1000)	
ВСМ	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN		_	CAN COMM CIRCUIT (U1000)	
	•	•			•		•	•		PKIC3577E



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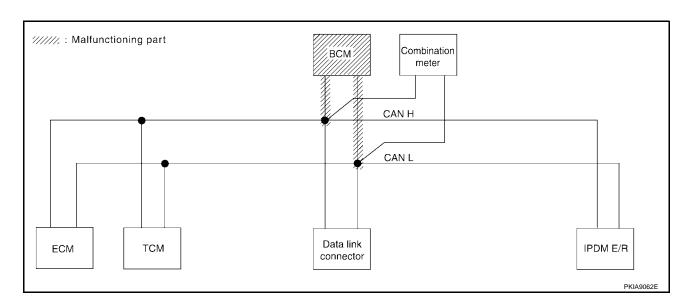
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Case 5
Check BCM circuit. Refer to <u>LAN-140, "BCM Circuit Inspection"</u>.

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SV	STEM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG	DECLITO
OLLLO1 01	OTEM Screen		Transmit diagnosis	ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		THESOLIS
ENGINE			UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U 101)
A/T		NG	UNKWN	UNKWN	_		UNKWN		CAN COMM CIRCUIT (U1000)	
ВСМ	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U 100)	

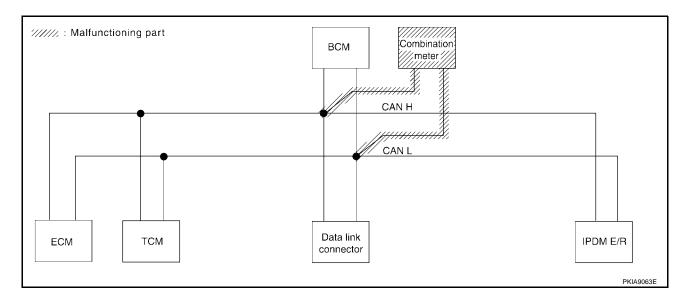


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Case 6
Check combination meter circuit. Refer to <u>LAN-141, "Combination Meter Circuit Inspection"</u>.

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYS	STEM screen	Initial	Transmit		Red	eive diagn	osis		SELE-DIAC	3 RESULTS
OLLLOT OTC	TEW SCIECT		diagnosis	ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		THEODEIG
ENGINE			UNKWN	_	UNKWN	UNKWN	UNWWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN						_
всм	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_		CAN COMM CIRCUIT (U1000)	
										PKIC3579E



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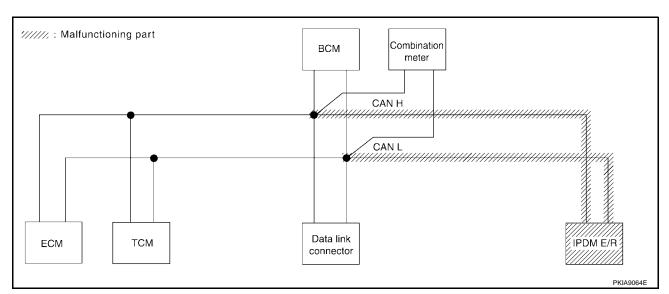
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Case 7

Check IPDM E/R circuit. Refer to LAN-142, "IPDM E/R Circuit Inspection" .

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SV	STEM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG	DECLITO
OLLLO1 01	OTEM SCIECT		diagnosis	ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		TRESOLIS
ENGINE	_		UNKWN		UNKWN	UNKWN	UNKWN	UNIKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 101)
A/T		NG	UNKWN	UNKWN	_		UNKWN		CAN COMM CIRCUIT (U1000)	<u></u>
ВСМ	No indication	NG	UNKWN	UNKWN	_		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN		_	CAN COMM CIRCUIT (U 100)	



Case 8
Check CAN communication circuit. Refer to <u>LAN-143</u>, "CAN Communication Circuit Inspection".

				CAN DIA	G SUPPOR	RT MNTR					
SELECT SYS	TFM screen	Initial	Transmit		Rec	eive diagn	osis		SELE-DIAG	RESULTS	
OLLLO1 010	TEM SCICETI		Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	IPDM E/R	GEE: 5710	J NEGOLIO	
ENGINE	_	_	UNMWN	_	UNIVAN	UNIVON	UNI WN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN01)	
A/T	_	NG	_		_			_			
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	-	_	CAN COMM CIRCUIT (U 100)		

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Case 9

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-144}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Check}}$ ".

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SV	STEM screen	Initial	Transmit		Rec	eive diagn	osis		SELE-DIAG	RESULTS
OLLLO1 01	OTEM Screen		Transmit diagnosis	ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		TILOULIO
ENGINE	_	_	UNKWN		UNIWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUI (U 101)
A/T		NG	UNKWN	UNKWN	_		UNKWN		CAN COMM CIRCUIT (U1000)	
всм	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN		_	CAN COMM CIRCUIT (U1000)	<u></u>

CAN SYSTEM (TYPE 3)	
	[CAN]
CAN SYSTEM (TYPE 3)	PFP:23710
Component Parts and Harness Connector Location	UKS001XR
Refer to LAN-20, "Component Parts and Harness Connector Location".	
Schematic	UKS001XS
Refer to LAN-21, "Schematic" .	
Wiring Diagram — CAN —	uks001xt C
Refer to LAN-22, "Wiring Diagram — CAN —".	
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CHECK SHEET

NOTE:

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

				CAN DIA	G SUPPO	RT MNTR				
SELECT SYST	EM screen	Initial	Transmit		Re	ceive diagn			SELF-DIAG	RESULTS
			diagnosis	ECM	ТСМ	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
4 /T		NG	UNKWN	UNKWN	_	_	UNKWN		CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication		UNKWN	UNKWN	_	UNKWN		-	CAN COMM CIRCUIT (U1000)	
			uttach copy LECT SYS				Attach co			
Display Confirmation/Adju			Sheet: Rew neck sheet			nes, and pu			above check sheet	et table.
CAN COMM	John Chi Diopie	ay Oi		iagnosis		CAN CIRC		on Diopidy	 	R/M&A
CAN CIRC 1				diagnosis		CAN CIRC (
CAN CIRC 2		1	В	CM	(CAN CIRC	7		iPDN	/I E/R
CAN CIRC 3				CM		CAN CIRC 8			-	
CAN CIRC 4		1	-			CAN CIRC 9	9		-	
			CAN	d DIAG SUI	Attach co isplay con PPORT M		eck sheet			

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

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CHECK SHEET RESULTS (EXAMPLE)

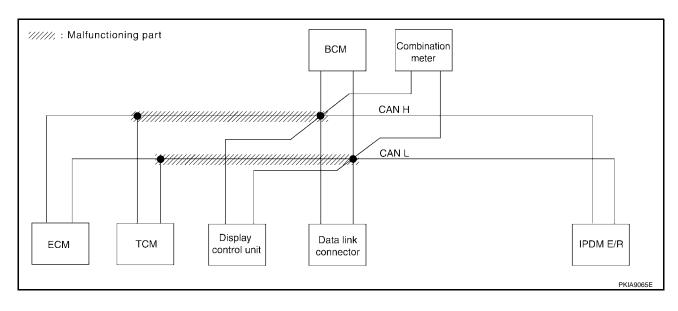
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-136, "Inspection Between TCM and Data Link Connector Circuit"</u>.

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYST	FM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG	RESULTS
022201 0101	2141 0010011	diagnosis		ECM	тсм	BCM /SEC	METER /M&A	IPDM E/R		THEODERO
ENGINE	_	_	UNKWN	_	UNKWN	UNIVWN	UNI WN	UNIKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UM01)
A/T	_	NG	UNKWN	UNKWN	_	1	_	_	_	
Display control unit	_	NG	UNKWN	UNIVON	_	UNKWN	UNKWN	UNKWN		
ВСМ	No indication	NG	UNKWN	UNIVAN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNIWN	-	UNKWN	_	_	CAN COMM CIRCUIT (U 100)	



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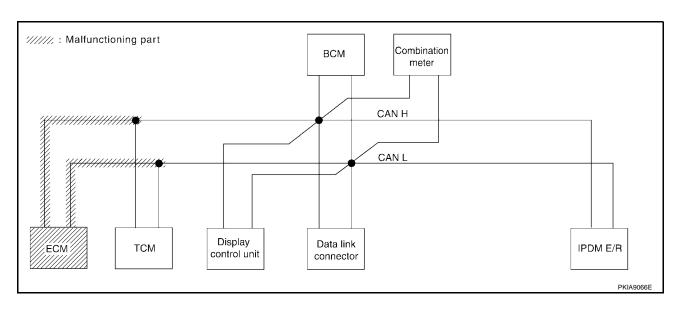
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Case 2
Check ECM circuit. Refer to <u>LAN-138</u>, "ECM Circuit Inspection" .

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYST	FM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG	RESULTS
022201 0101	Z.W. 551-5511		diagnosis	ECM	тсм	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	_	-	UNKWN	_	UNKWN	UNI W N	UNI	UNIKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	_	_	1	UNKWN	_	-	-
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN		_
ВСМ	No indication	NG	UNKWN	UNIWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNION		UNKWN	-	-	CAN COMM CIRCUIT (U 100)	



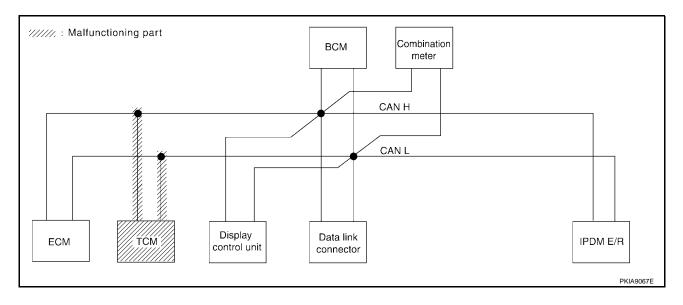
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Case 3
Check TCM circuit. Refer to <u>LAN-139</u>, "TCM Circuit Inspection" .

				CAN DIA	G SUPPOR	RT MNTR					
SELECT SYST	FM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG RESULTS		
		diagnosis diagnosi		ECM	TCM BCM METER IPDM E/F		IPDM E/R				
ENGINE	_	_	UNKWN	_	UNI WN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUI (UN01)	
A/T	_	NG		_	_	1		_	_	_	
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN		_	
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	_	CAN COMM CIRCUIT (U1000)		



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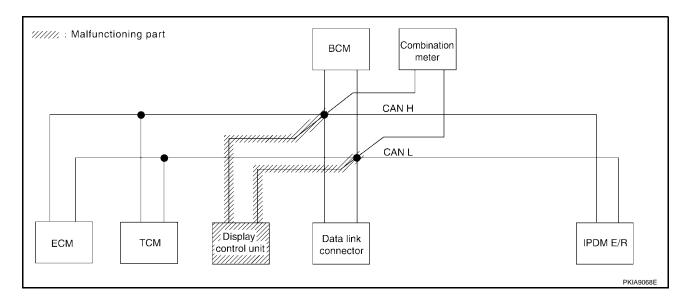
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Case 4
Check display control unit circuit. Refer to <u>LAN-139</u>, "<u>Display Control Unit Circuit Inspection</u>" .

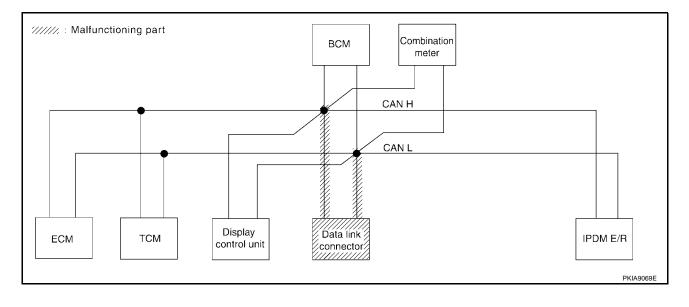
				CAN DIA	G SUPPOR					
SELECT SYST	EM screen	Initial	Transmit		Hec	eive diagn	OSIS		SELF-DIAG RESULTS	
	Initia		diagnosis	ECM	ТСМ	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN		_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNIV	_	UNKWN	UNI WN	UNI W N		_
всм	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN		_	CAN COMM CIRCUIT (U1000)	



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Case 5
Check data link connector circuit. Refer to <u>LAN-140</u>, "<u>Data Link Connector Circuit Inspection</u>" .

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYST	EM screen	laitial	Transmit		Rec	eive diagn	osis		SELF-DIAG RESULTS	
OLLLO1 3131	Initial diagnosis	Transmit diagnosis	ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		ANLOULIS	
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN		_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN		UNKWN		-	CAN COMM CIRCUIT (U1000)	
TI DIVI L/N	No in Cation		ONKWIN	ONNWIN		OINKWIN			(U1000)	



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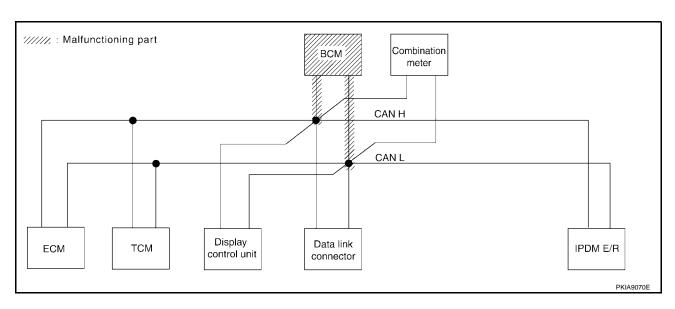
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Case 6
Check BCM circuit. Refer to <u>LAN-140, "BCM Circuit Inspection"</u>.

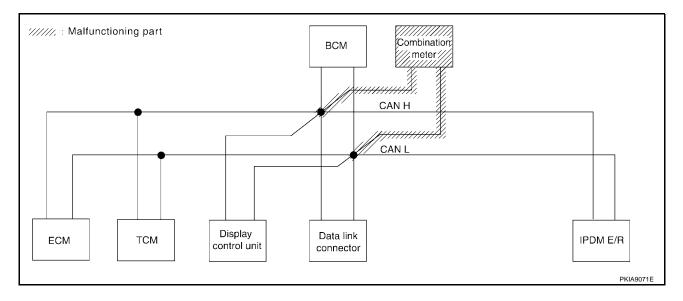
				CAN DIA	G SUPPOF	RT MNTR					
SELECT SYST	FM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG RESULTS		
			diagnosis	ECM	ECM TCM BCM METER IPDM E/F		IPDM E/R				
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)	
A/T	_	NG	UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_	
Display control unit	_	NG	UNKWN	UNKWN	_	UN WN	UNKWN	UNKWN		-	
всм	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNIWN		-	CAN COMM CIRCUIT (U 100)		



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Case 7
Check combination meter circuit. Refer to <u>LAN-141</u>, "Combination Meter Circuit Inspection" .

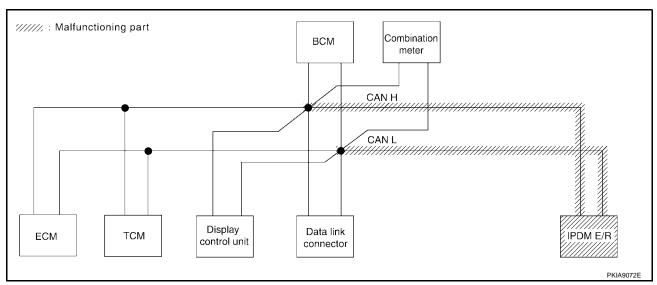
				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYST	FM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG RESULTS	
022201 0101	diagnosis		ECM	тсм	BCM /SEC	METER /M&A IPDM E/R				
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNIWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	_	-		_	_	
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNI WN	UNKWN		_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN		UNKWN	_		CAN COMM CIRCUIT (U1000)	



Case 8

Check IPDM E/R circuit. Refer to LAN-142, "IPDM E/R Circuit Inspection" .

				CAN DIA	G SUPPOR					
SELECT SYST	EM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG RESULTS	
11110101	I IIIIu		diagnosis	ECM	ECM TCM BCM METER IPDM E.		IPDM E/R			
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	UNION	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	UNIVAN		
всм	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNION	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	_	_	CAN COMM CIRCUIT (U 100)	<u></u>



Case 9

Check CAN communication circuit. Refer to LAN-143, "CAN Communication Circuit Inspection".

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYST	EM screen	Initial	Transmit		Rec	eive diagn	osis		SELF-DIAG	RESULTS
022201 0101	EN GOIGGI		diagnosis	ECM	тсм	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	-	-	UNIWN	-	UNIWN	UNIWN	UNKWN	UNION	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN01)
A/T	_	NG	_	-		_	-	-		-
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	UNI WN		_
ВСМ	No indication	NG	UNKWN	UNKWN	_		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN		UNKWN		_	CAN COMM CIRCUIT (U 100)	

Revision: November 2006 LAN-65 2006 Altima

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Case 10

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-144}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Check}}$ ".

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SYST	EM screen	Initial	Transmit		Rec	eive diagn	osis			
	2.01.001.0011		diagnosis	ECM	тсм	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	_	-	UNKWN	_	UNIWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN		_
ВСМ	No indication	NG	UNKWN	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN		UNKWN		_	CAN COMM CIRCUIT (U1000)	
										PKIC3593E

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CHECK SHEET

NOTE:

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

	e			A N I DI A O O I I	DOODT MAN	TD			
				AN DIAG SUF		TR diagnosis		-	
SELECT SYST	EM screen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SELF-DIAC	G RESULTS
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
Display control unit	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_		CAN COMM CIRCUIT (U1000)	-
Symptoms :									
			tach copy of ECT SYSTE				copy of SYSTEM		
Display	control unit Tr	anslation Sh	eet: Rewrite	the following	names, and	d put a chec	k mark on the	above check shee	et table.
Display Confirmation/Adj		-	eet: Rewrite				k mark on the	e above check sheet	et table. t table Display
Confirmation/Adj		-		ole Display		ation/Adjustr		Check sheet	
		ay Che	eck sheet tab	ole Display nosis	Confirm	ation/Adjustr RC 5		Check sheet METE	t table Display R/M&A
Confirmation/Adj CAN COMM CAN CIRC 1 CAN CIRC 2		ay Che	eck sheet tab Initial diag Transmit dia BCM	ole Display nosis gnosis	CAN CII CAN CII CAN CII	ation/Adjustr RC 5 RC 6 RC 7		Check sheet METE	table Display R/M&A
Confirmation/Adj CAN COMM CAN CIRC 1 CAN CIRC 2 CAN CIRC 3		ay Che	eck sheet tab Initial diagi Transmit dia	ole Display nosis gnosis	Confirm CAN CII CAN CII CAN CII CAN CII	ation/Adjustr RC 5 RC 6 RC 7 RC 8		Check sheet METE	t table Display R/M&A
Confirmation/Adj CAN COMM CAN CIRC 1 CAN CIRC 2		ay Che	eck sheet tab Initial diagr Transmit dia BCM ECM	ole Display nosis gnosis	CAN CII CAN CII CAN CII	ation/Adjustr RC 5 RC 6 RC 7 RC 8		Check sheet METE	table Display :R/M&A M E/R

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Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS
Attach copy of	Attach copy of	Attach copy of
ENGINÉ CAN DIAG SUPPORT MNTR	BCM CAN DIAG SUPPORT MNTR	IPDM E/R CAN DIAG SUPPORT MNTR

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CHECK SHEET RESULTS (EXAMPLE)

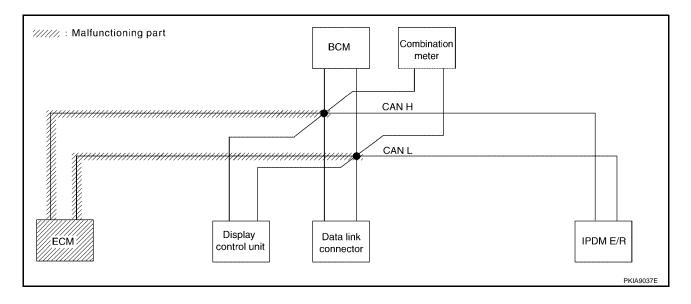
NOTE:

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

Case 1

Check ECM circuit. Refer to LAN-138, "ECM Circuit Inspection" .

			CA	AN DIAG SU	PPORT MN	TR			
SELECT SYST	FM screen	Initial	Transmit		Receive	diagnosis		SELE-DIAG	RESULTS
000001	EW SCICCII	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	_		UNK WN	_	UNK WN	UNIMN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UV01)
Display control unit	-	NG	UNKWN	UNK WN	UNKWN	UNKWN	UNKWN		
ВСМ	No indication	NG	UNKWN	UNK WN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U 100)	_



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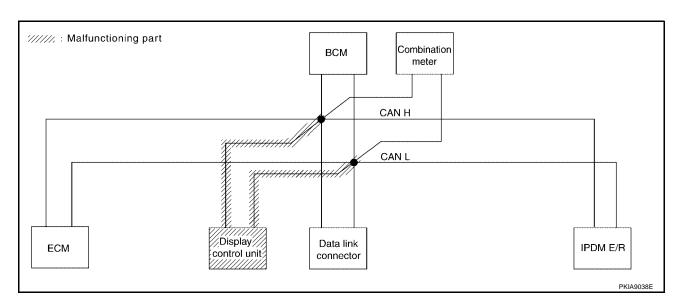
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Case 2
Check display control unit circuit. Refer to <u>LAN-139</u>, "<u>Display Control Unit Circuit Inspection</u>" .

		CAN DIAG SUPPORT MNTR							
SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	Receive diagnosis				SELF-DIAG RESULTS	
				ECM	BCM /SEC	METER /M&A	IPDM E/R	SELI-DIAG NESOLIS	
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
Display control unit	-	NG	UNK WN	UNK W N	UNK WN	UNKWN	Π ΝΚ (ΜΝ		
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	

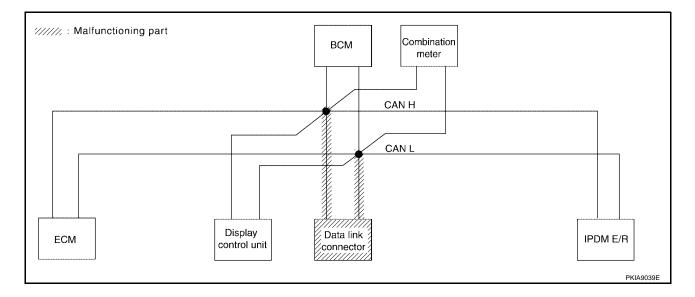


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Case 3
Check data link connector circuit. Refer to <u>LAN-140</u>, "<u>Data Link Connector Circuit Inspection</u>" .

			CA	SELF-DIAG RESULTS					
SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis			Receive diagnosis			
				ECM	BCM /SEC	METER /M&A	IPDM E/R	SELI-DIAG NEGOLIG	
ENGINE	_		UNKWN		UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
Display control unit	1	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_



CAN SYSTEM (TYPE 4)

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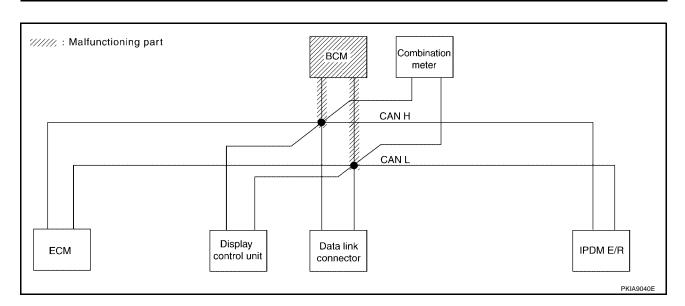
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Case 4
Check BCM circuit. Refer to <u>LAN-140, "BCM Circuit Inspection"</u>.

			CA	AN DIAG SU	PPORT MN	TR			
SELECT SYST	FM screen	Initial	Transmit		Receive	diagnosis		SELE-DIAG	RESULTS
OLLLOT OTOT	LIVI GOLCOII	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	OLLI -DIAC	TILOULIU
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 101)
Display control unit	1	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNK/WN	_	_	CAN COMM CIRCUIT (UN00)	_

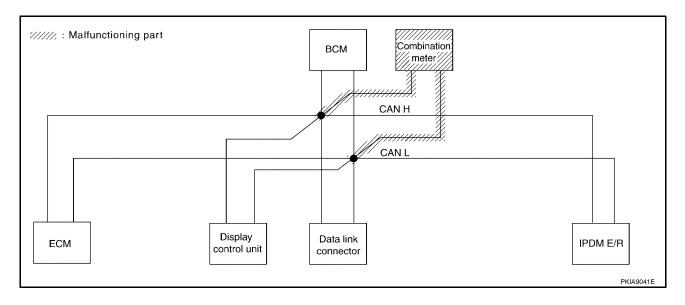


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Case 5
Check combination meter circuit. Refer to <u>LAN-141</u>, "Combination Meter Circuit Inspection" .

			C <i>A</i>	N DIAG SU	PPORT MN	TR			
SELECT SYST	FM screen	Initial	Transmit		Receive	diagnosis		SELF-DIAG	RESULTS
OLLEGI GIGI	LIVI GOLCOIT	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	JEEI -DIAC	THEODEIG
ENGINE	_		UNKWN		UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
Display control unit	1	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		
ВСМ	No indication	NG	UNKWN	UNKWN		UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	
I IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	_			PKIC3599



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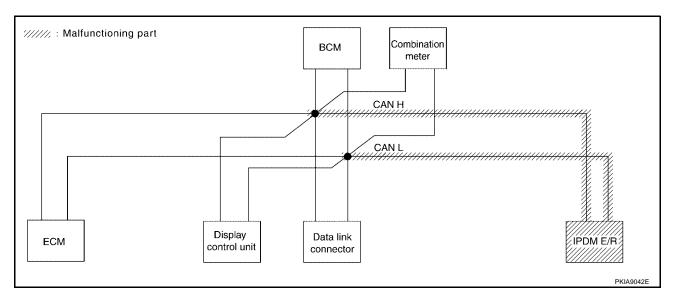
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Case 6

Check IPDM E/R circuit. Refer to LAN-142, "IPDM E/R Circuit Inspection" .

			CA	AN DIAG SU	PPORT MN	TR			
SELECT SYST	FM screen	Initial	Transmit		Receive	diagnosis		SELF-DIAG	RESULTS
SELECT STOT	LIVI SCIECTI	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SELI-DIAC	THEODEIG
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
Display control unit	1	NG	UNKWN	UNKWN	UNKWN	UNKWN	UN K WN		
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	minute
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U 100)	_



Case 7
Check CAN communication circuit. Refer to <u>LAN-143</u>, "CAN Communication Circuit Inspection".

			CA	AN DIAG SU	PPORT MN	TR				
SELECT SYST	EM screen	Initial	Transmit		Receive	diagnosis		SELF-DIAG	DECLITO	
OLLLOT OTOT	LIVI SCIECTI	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SELI-DIAC		
ENGINE	_		UNKWN	_	UNKWN	UNIONN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U M01)	
Display control unit	_	NG	UNK WN	UNKWN	UNKWN	UNKWN	UN K WN			
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	<u></u>	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	-	_	CAN COMM CIRCUIT (U 100)		

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CAN SYSTEM (TYPE 5)

CAN SYSTEM (TYPE 5) Component Parts and Harness Connector Location Refer to LAN-20, "Component Parts and Harness Connector Location" Schematic Refer to LAN-21, "Schematic" Wiring Diagram — CAN —

Refer to LAN-22, "Wiring Diagram — CAN —" .

CAN SYSTEM (TYPE 5)

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CHECK SHEET

NOTE:

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

			CA	AN DIAG SU	PPORT MN	ΓR			
SELECT SY	STEM screen	Initial	Transmit			diagnosis		SELE-DIAG	RESULTS
OLLLO1 01	OT LIVE SCICOL	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	OLLI DIAC	THEODEIG
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U1001)
СМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	-
PDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
			tach copy of ECT SYSTEI	M		Attach SELECT	copy of SYSTEM		
S	Attach copy of ENGINE ELF-DIAG RESU		Attach c BC SELF-DIAG	M		ttach copy c ABS -DIAG RESI		Attach copy o IPDM E/R SELF-DIAG RESU	
С	Attach copy of ENGINE AN DIAG SUPPO MNTR		Attach c BC CAN DIAG S MN ⁻	M SUPPORT		ttach copy c ABS DIAG SUPP MNTR		Attach copy o IPDM E/R CAN DIAG SUPP MNTR	

CHECK SHEET RESULTS (EXAMPLE)

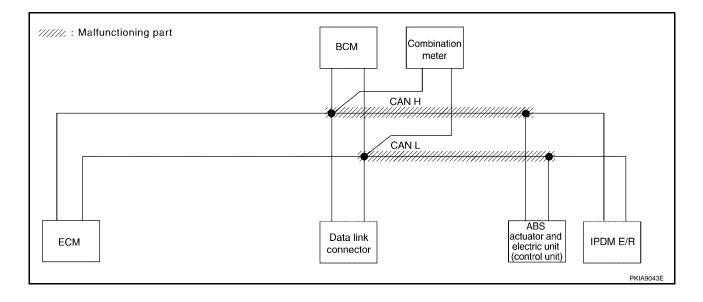
NOTE:

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

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-137</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

			CA	AN DIAG SU	PPORT MN	TR			
SELECT SY	STEM screen	Initial	Transmit		Receive	diagnosis		SELE-DIAC	RESULTS
SELECT S	TOTEW SCIECT	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SELI-DIAC	THEODEIG
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNK WN	_	_	_	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (UN00)	



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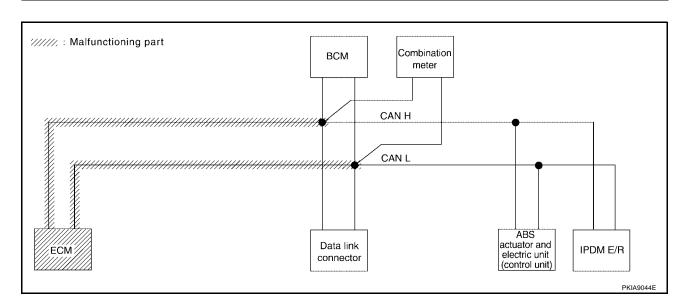
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Case 2
Check ECM circuit. Refer to <u>LAN-138</u>, "ECM Circuit Inspection" .

			CA	AN DIAG SU	PPORT MN	TR			
SELECT SYS	TEM screen	Initial	Transmit		Receive	diagnosis		SELE-DIA	RESULTS
OLLLO1 010	TEW SCIECT	diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SELI-DIAC	THEODEIG
ENGINE	_	_	UNK WN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 1001)
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN		-	_	CAN COMM CIRCUIT (UN)00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (UN00)	_

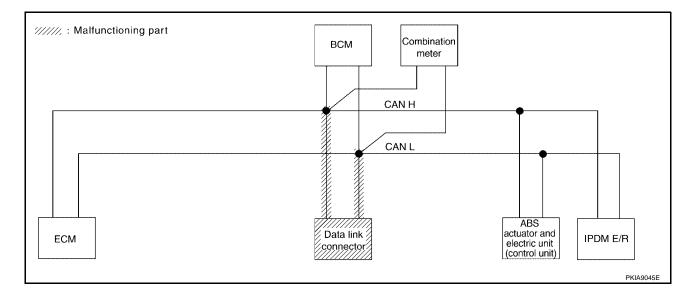


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Case 3
Check data link connector circuit. Refer to <u>LAN-140</u>, "<u>Data Link Connector Circuit Inspection</u>" .

BCM No indication NG UNKWN UNKWN — UNKWN UNKWN CAN COMM CIRCUIT — ABS — NG LINKWN LINKWN — — — CAN COMM CIRCUIT —				CA	AN DIAG SU	PPORT MN	TR			
diagnosis	SELECT SV	/STEM screen	Initial	Transmit		Receive	diagnosis		SELE-DIA	2 DECLIITS
BCM No incidation NG UNKWN UNKWN — UNKWN UNKWN (U1000) (U100 BCM No incidation NG UNKWN UNKWN — UNKWN UNKWN (U1000) — CAN COMM CIRCUIT (U1000) ARS — NG UNKWN UNKWN — — CAN COMM CIRCUIT —	3LLLO131	STEW SCIECT			ECM			IPDM E/R	SLLI -DIAC	A NEGOLIG
ARS - NG LINKWN LINKWN - UNKWN UNKWN (U1000) -	ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1001)
$1\Delta BS$ $-$ $N(S + 1)N(K)N(N + 1)N(K)N(N + 1)$ $-$	всм	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN		-
(01000)	ABS	_	NG	UNKWN	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R No indication - UNKWN UNKWN CAN COMM CIRCUIT (U1000)	IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	_		_



CAN SYSTEM (TYPE 5)

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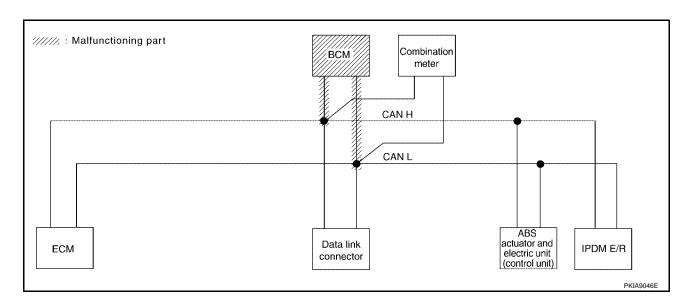
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Case 4
Check BCM circuit. Refer to <u>LAN-140, "BCM Circuit Inspection"</u>.

			CA	AN DIAG SU	PPORT MN	ΓR				
SELECT SYS	CTEM screen	Initial	Transmit		Receive	diagnosis		SELE-DIAG	RESULTS	
SELECTION	TEM Screen	diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SELI-DIAC		
ENGINE	_	_	UNKWN	_	UNK WN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)	
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-	
ABS	_	NG	UNKWN	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (UN00)	_	

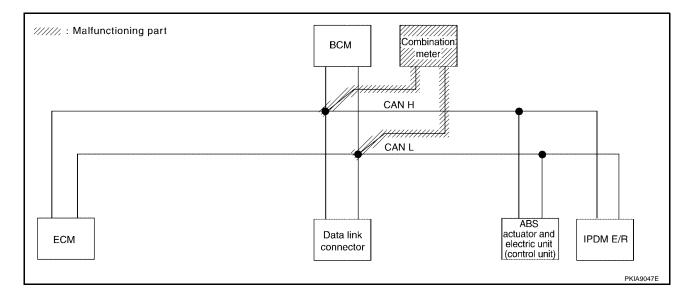


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Case 5
Check combination meter circuit. Refer to <u>LAN-141</u>, "Combination Meter Circuit Inspection" .

			C.A	AN DIAG SU	PPORT MN	TR			
SELECT SYST	EM coroon	1_141_1	т		Receive	diagnosis		CELE DIA	G RESULTS
SELECT STS	EW Screen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SELF-DIAC	A NESULIS
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	
									PKIC2624E



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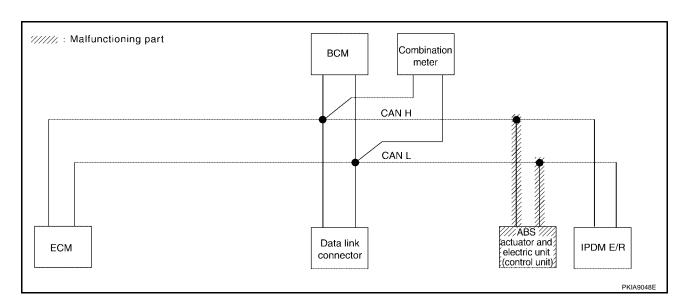
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Case 6

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-141</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

			CA	AN DIAG SU	PPORT MN	TR			
SELECT SYS	CTEM coroon	Initial	T		Receive	diagnosis		SELE DIA	RESULTS
SLLLOT 310	STEINI SCIEETI	diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SLLI -DIAC	A HESOLIS
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	V	UNK WN	UNKWN		-	_	CAN COMM CIRCUIT (UN)00)	
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_

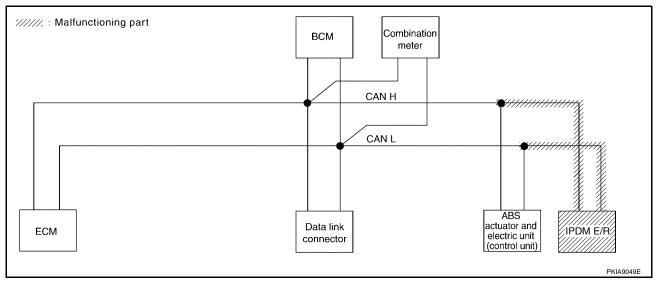


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Case 7
Check IPDM E/R circuit. Refer to <u>LAN-142, "IPDM E/R Circuit Inspection"</u>.

			CA	AN DIAG SU	PPORT MN	TR			
SELECT SYS	CTEM screen	Initial	Transmit		Receive	diagnosis		SELE-DIAC	RESULTS
SELECT STO	TEM Scieen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	IPDM E/R	SLLI -DIAC	A NEGOLIG
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
всм	No indication	NG	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (UM00)	-
									PKIC2626E



Case 8
Check CAN communication circuit. Refer to <u>LAN-143</u>, "CAN Communication Circuit Inspection".

			CA	AN DIAG SU	PPORT MN	TR			
SELECT SV	STEM screen	Initial	Transmit		Receive	diagnosis		SELE DIAC	RESULTS
SLLLO1 310	STEW SCIECT	diagnosis	diagnosis ECM BCM METER IPDM E/					322. 3G (1200210	
ENGINE	_	_	UNK WN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	V	UNK WN	UNKWN	_	_	_	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (UN00)	_

CAN SYSTEM (TYPE 5)

[CAN]

Case 9

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-144, "IPDM E/R Ignition Relay Circuit Check" .

			C/	AN DIAG SU	PPORT MN	TR			
SELECT SYS	TEM screen	Initial	Transmit		Receive	diagnosis		SELF-DIAG	DECLITO
SELECT STS	diagnosis diagr			ECM	BCM /SEC	METER /M&A	IPDM E/R		THEODEIG
ENGINE	_	-	UNKWN — UNKWN UNKWN UNKWN					CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	_	_	-	_	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-

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CAN SYSTEM (TYPE 6)

CAN SYSTEM (TYPE 6) Component Parts and Harness Connector Location Refer to LAN-20, "Component Parts and Harness Connector Location" Schematic Refer to LAN-21, "Schematic" Wiring Diagram — CAN —

Refer to LAN-22, "Wiring Diagram — CAN —" .

CAN SYSTEM (TYPE 6)

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CHECK SHEET UKS001RR

		Γ		CAN DIA	G SUPPO	T MNITO			I	
CELECT	SYSTEM screen	1 -1- 1		CAN DIA		eive diagn	osis		SELE DIAC	G RESULTS
SELECT	STSTEM SCIEET	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	a neoulio
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	(U1001)
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	_	_	_		CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	-			CAN COMM CIRCUIT (U1000)	
Symptoms			Attach copy LECT SYS				Attach co SELECT S			
	Attach copy of ENGINE SELF-DIAG RESU			ch copy of BCM AG RESU			ch copy of ABS AG RESUL	TS	Attach copy of IPDM E/R SELF-DIAG RESI	
	Attach copy of ENGINE CAN DIAG SUPPO MNTR		CAN DIA	ch copy of BCM AG SUPPC MNTR		CAN DIA	ch copy of ABS .G SUPPO MNTR	RT	Attach copy o IPDM E/R CAN DIAG SUPP MNTR	

CHECK SHEET RESULTS (EXAMPLE)

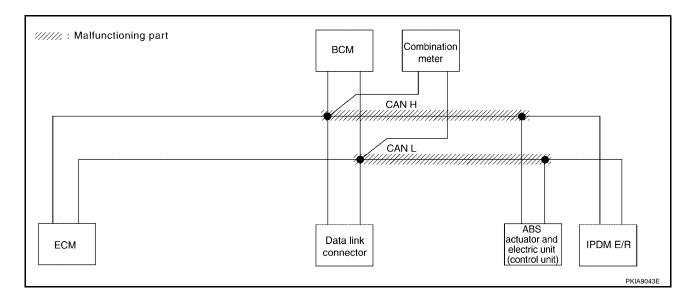
NOTE:

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

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-137</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SY	STEM screen	Initial	Transmit		Red	eive diagn			SELF-DIAG	RESULTS
SELECT ST	diagnosi		diagnosis	ECM BCM METER /SEC /M&A		METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THESOLIS
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UN W WN	UNK WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U M01)
ВСМ	No indication	NG	UNKWN	UNKWN	_	UNKWN		UNK WN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNIX WN	_	_	_	_	CAN COMM CIRCUIT (UV00)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT (UN00)	_



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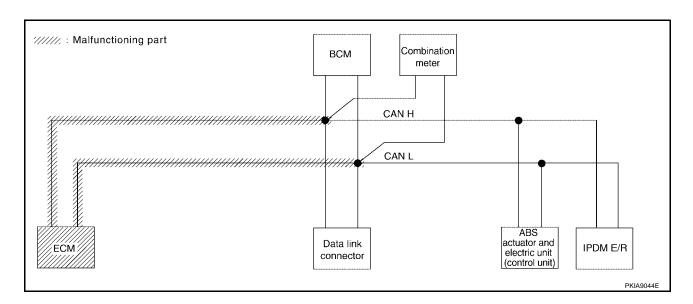
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Case 2
Check ECM circuit. Refer to <u>LAN-138</u>, "ECM Circuit Inspection" .

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYS	TEM screen	Initial	Transmit		Rec	eive diagn			SELE-DIAG	RESULTS
OLLLO1 010	TEW SOICEIT		Transmit BCM METER VDC/TCS IPDN /SEC /M&A /ABS				IPDM E/R	OLLI DIAC	TILOULIU	
ENGINE	_	_	UNK WN	_	UNIXWN	UN A WN	UNIONN	UNK WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 101)
ВСМ	No indication	NG	UNKWN	UN K ₩N		UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	name.
ABS	_	NG	UNKWN	UNKWN	_	ı	_		CAN COMM CIRCUIT (UV)00)	
IPDM E/R	No indication	_	UNKWN	UN ₩ WN	UNKWN	_	_	_	CAN COMM CIRCUIT (U 100)	

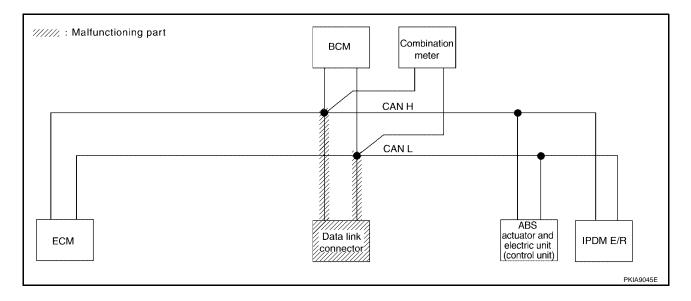


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Case 3
Check data link connector circuit. Refer to <u>LAN-140</u>, "<u>Data Link Connector Circuit Inspection</u>" .

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SYST	TEM screen	Initial	Transmit		Rec	eive diagn			SELE-DIAC	RESULTS
GELEOT GTO	diagnosis diagnos			ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE SMATIESSETS	
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN		_	_	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_		_	CAN COMM CIRCUIT (U1000)	-



CAN SYSTEM (TYPE 6)

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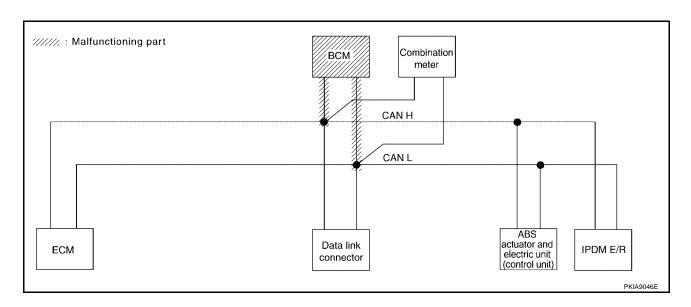
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Case 4
Check BCM circuit. Refer to <u>LAN-140, "BCM Circuit Inspection"</u>.

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SYS	TEM screen	Initial	Transmit		Red	eive diagn			SELE-DIAG	RESULTS
GELEGICIE	diagnosis		diagnosis	I BOM I METER IVDC/TCSI			IPDM E/R	OLLI BING NEGGLIO		
ENGINE	_	_	UNKWN	_	UNI WN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	name.
ABS	_	NG	UNKWN	UNKWN		_	_	_	CAN COMM CIRCUIT (U1000)	manufa.
IPDM E/R	No indication	_	UNKWN	UNKWN	UNIMN	_	_	_	CAN COMM CIRCUIT (UN00)	

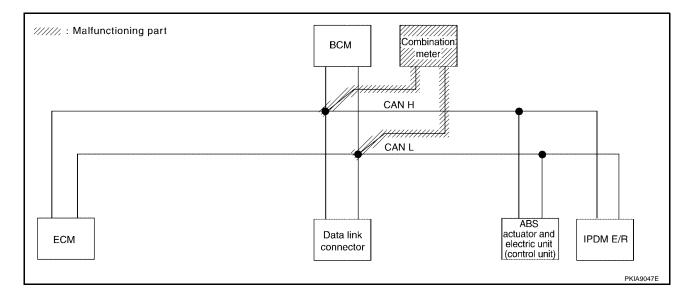


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Case 5
Check combination meter circuit. Refer to <u>LAN-141</u>, "Combination Meter Circuit Inspection" .

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SYST	EM screen	Initial	Transmit		Rec	eive diagn			SELEDIA	RESULTS
SELECT STS	diagnosis diagnos			ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	A RESOLIS
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UV01)
ВСМ	No indication	NG	UNKWN	UNKWN		UNIWN		UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN		_	_	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_		_	CAN COMM CIRCUIT (U1000)	-
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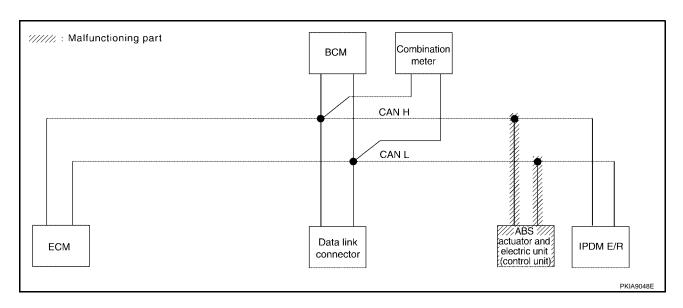
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Case 6

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-141</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SYS	TEM screen	Initial	Transmit		Rec	eive diagn			SELE-DIAC	RESULTS
OLLLO1 010	diagnosis diag			ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOULIU
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	V ∕s	UNR WN	UNKWN		-	_	_	CAN COMM CIRCUIT (U X 00)	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_		_	CAN COMM CIRCUIT (U1000)	-

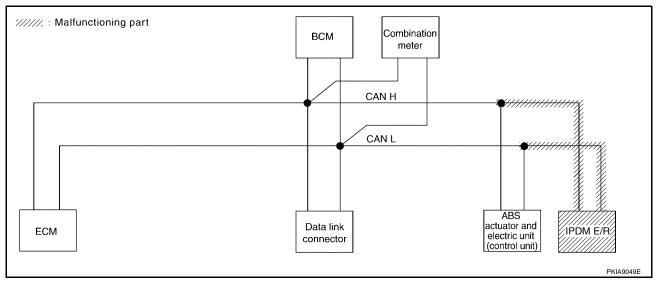


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Case 7
Check IPDM E/R circuit. Refer to <u>LAN-142</u>, "IPDM E/R Circuit Inspection".

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYSTE	-M screen	Initial	Transmit		Rec	eive diagn			SELE-DIAC	RESULTS
OLLLOT GTOTE	diagnosis diag			ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOULIU
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNWWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
всм	No indication	NG	UNKWN	UNKWN		UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	_	_	_		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT (U 100)	_



Case 8
Check CAN communication circuit. Refer to <u>LAN-143</u>, "CAN Communication Circuit Inspection".

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SV	STEM screen	Initial	Transmit		Rec	eive diagn			SELE-DIAC	RESULTS
GELEOT OT	diagnosis dia			ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TILOULIO
ENGINE	_	_	UNKWN	_	UNI W N	UNKWN	UN W WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U 101)
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	V	UNK WN	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U V 000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN		_	_	CAN COMM CIRCUIT (U 100)	

CAN SYSTEM (TYPE 6)

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Case 9

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-144</u>, "IPDM E/R Ignition Relay <u>Circuit Check"</u>.

				CAN DIA	G SUPPOR	RT MNTR				
SELECT SYST	TEM screen	Initial	Transmit		Rec	eive diagn			SELE-DIAC	RESULTS
322231 3131	LW dordon		diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIA	THEODERO
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNIONN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UM01)
ВСМ	No indication	NG	UNKWN	UNKWN		UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN		_	_	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN			_	CAN COMM CIRCUIT (U1000)	

Case 10

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-144}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Check"}}$.

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYS	TEM screen	Initial	Transmit		Rec	eive diagn			SELF-DIAG	RESULTS
OLLEOT OTO		diagnosis		ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOOLIO
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ВСМ	No indication	NG		UNKWN		UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	_	_	ı	_	1	CAN COMM CIRCUIT (U V 00)	
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	_		_	CAN COMM CIRCUIT (U1000)	

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CAN SYSTEM (TYPE 7)

CAN SYSTEM (TYPE 7) Component Parts and Harness Connector Location Refer to LAN-20, "Component Parts and Harness Connector Location" Schematic Refer to LAN-21, "Schematic" Wiring Diagram — CAN —

Refer to LAN-22, "Wiring Diagram — CAN —" .

CAN SYSTEM (TYPE 7)

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CHECK SHEET UKS001RQ

NOTE:

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SELECT SYSTEM screen	Check sheet tabl	e	r									
Initial diagnosis Common Common				T	CAN							
No indication No indication No UNKWN UNKWN UNKWN UNKWN No UNKWN UNKWN	SELECT SYST				ECM		всм	METER	VDC/TCS		SELF-DIAC	G RESULTS
TRANSMISSION No indication NG UNKWN UNKWN - - UNKWN UNKWN - - CAN COMM CIRCUIT (U1000) - UNKWN UNKWN - - - CAN COMM CIRCUIT (U1000) - UNKWN UNKWN - UNKWN - - CAN COMM CIRCUIT (U1000) - CAN COMM CIRCUIT (U1000) -	ENGINE	_	_	UNKWN							CAN COMM CIRCUIT	CAN COMM CIRCUI
No indication NG	RANSMISSION	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN		CAN COMM CIRCUIT	
NBS	BCM	No indication	NG	UNKWN	UNKWN	_		UNKWN	_	UNKWN	CAN COMM CIRCUIT	_
PDM E/R No indication — UNKWN UNKWN — UNKWN — — — CAN COMM CIRCUIT (U1000) — Symptoms: Attach copy of Attach copy of						_	_		_		CAN COMM CIRCUIT	
Symptoms : Attach copy of Attach copy of		No indication					UNKWN	_	_		CAN COMM CIRCUIT	_
Attach copy of Attach copy of								<u> </u>			[(01000)	L
Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM												
Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM										*****		
Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM												
SELECT SYSTEM SELECT SYSTEM				Attach co	ony of				Attach cor	ov of		
			s	ELECT S	YSTEM			SE	LECT SY	STEM		
			L					L				

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Attach copy of Attach copy of Attach copy of **ENGINE** TRANSMISSION BCM SELF-DIAG RESULTS SELF-DIAG RESULTS SELF-DIAG RESULTS Attach copy of Attach copy of ABS IPDM E/R SELF-DIAG RESULTS **SELF-DIAG RESULTS** Attach copy of Attach copy of Attach copy of ENGINE TRANSMISSION BCM CAN DIAG SUPPORT CAN DIAG SUPPORT **CAN DIAG SUPPORT** MNTR MNTR MNTR Attach copy of Attach copy of ABS IPDM E/R CAN DIAG SUPPORT CAN DIAG SUPPORT MNTR MNTR PKIA8900E

CHECK SHEET RESULTS (EXAMPLE)

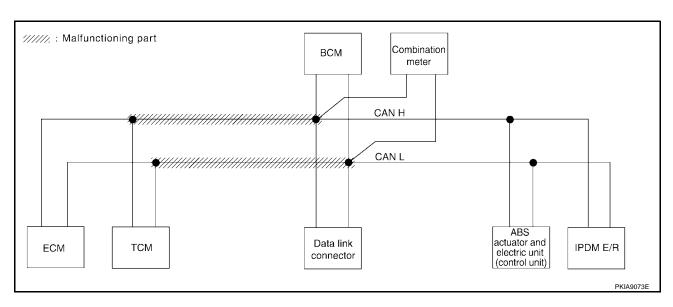
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-136</u>, "Inspection Between TCM and <u>Data Link Connector Circuit</u>".

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	FM screen	Initial	Transmit			Receive of	diagnosis			SELF-DIAG	RESULTS
022201 0101	20.0011	diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	E/D		
ENGINE	_		UNKWN	-	UNKWN	UNKWN	UNK WN	-	UNIVAN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U 101)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_	_	
всм	No indication	NG	UNKWN	UNKWN	_	1	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	-	-	_	-	_	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	-	UNKWN	UNK WN	_	UNKWN	-		_	CAN COMMICIRCUIT (U 100)	_



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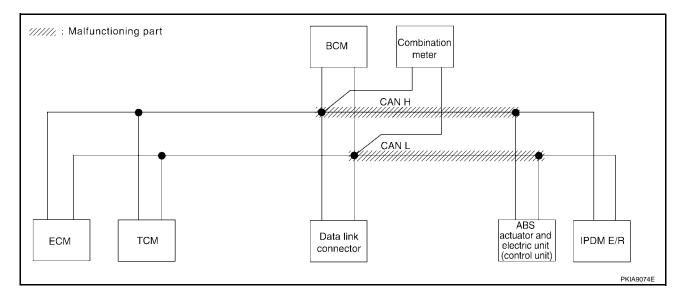
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-137</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELE-DIAG	RESULTS
		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	E/R		
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	_	UNMWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U M01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	_	_		_
ВСМ	No indication	NG	UNKWN	UNKWN		_	UNKWN	-	UNK WN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UMMAN	_	_	_	-	_	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	UNKWN	_	_	_	CAN COMMICIRCUIT (U 100)	



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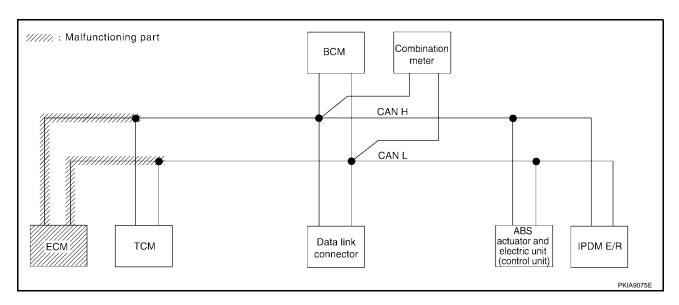
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Case 3
Check ECM circuit. Refer to <u>LAN-138</u>, "ECM Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
0222010101	2 5570011	diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNK WN	UNKWN	UNKWN	-	UNIWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (U M01)
TRANSMISSION	No indication	NG	UNKWN		_	_	UNKWN	UNKWN	_		
ВСМ	No indication	NG	UNKWN	UNIWN	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	_	-	_	_	_	CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication	_	UNKWN	UNI WN	-	UNKWN	_		_	CAN COMMICIRCUIT (U 100)	

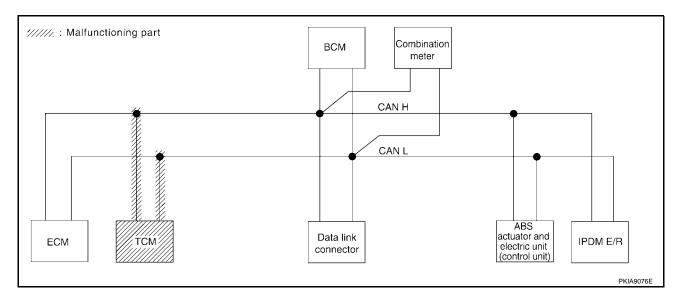


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Case 4
Check TCM circuit. Refer to <u>LAN-139</u>, "TCM Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive of	diagnosis			SELE-DIAG	RESULTS
022201 0101	2111 0010011	diagnosis		ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	E/R		
ENGINE	_		UNKWN	1	UNK WN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUI (U 101)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	_	_	_	-	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	_	UNKWN			_	CAN COMM CIRCUIT (U1000)	



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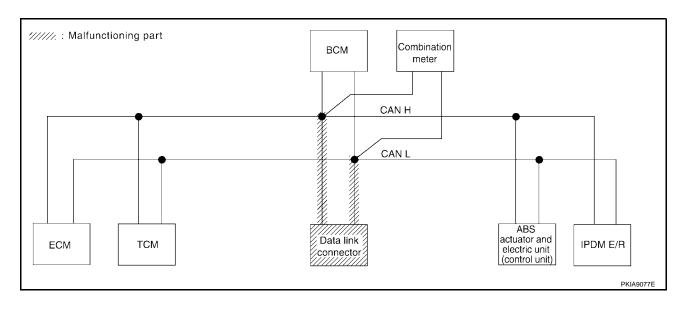
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Case 5

Check data link connector circuit. Refer to LAN-140, "Data Link Connector Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive of	diagnosis			SELE-DIAG	RESULTS
022201 0101		diagnosis		1	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINC	TREGOETO
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	1	-	-	-	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	

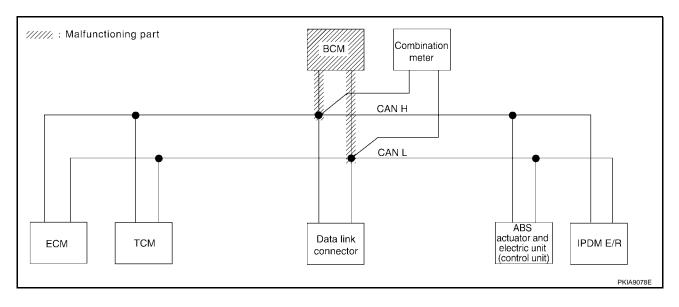


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Case 6
Check BCM circuit. Refer to <u>LAN-140, "BCM Circuit Inspection"</u>.

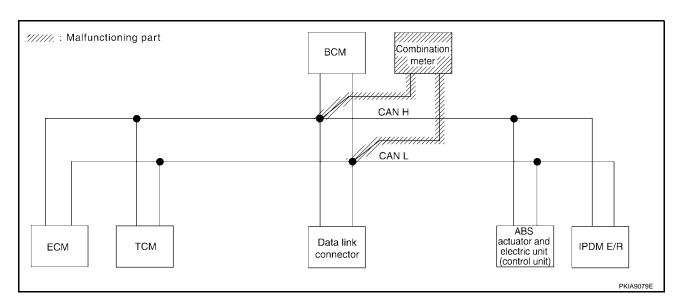
				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	FM screen	Initial	Transmit			Receive of	diagnosis			SELE-DIAG	RESULTS
022201 0101	EW SOLOON	diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	E/R		
ENGINE	_		UNKWN	-	UNKWN	UNK WN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U M01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	_	_	_	-	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN		UNK WN	_	_	_	CAN COMM CIRCUIT (U 100)	_



Case 7

Check combination meter circuit. Refer to <u>LAN-141</u>, "Combination Meter Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	FM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
02220.0.0.	Z 55.55	diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	3221 Billio	, rieddi'd
ENGINE	_		UNKWN	1	UNKWN	UNKWN	UNWWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	_	-	-	-	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	



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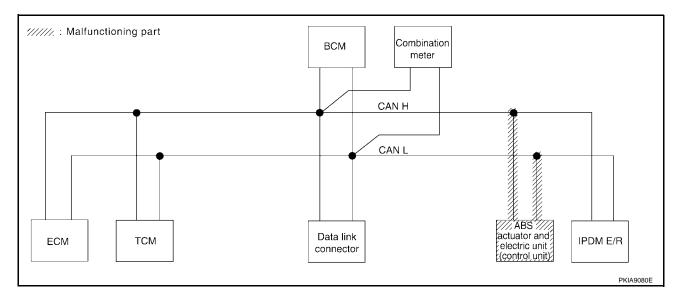
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Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-141</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

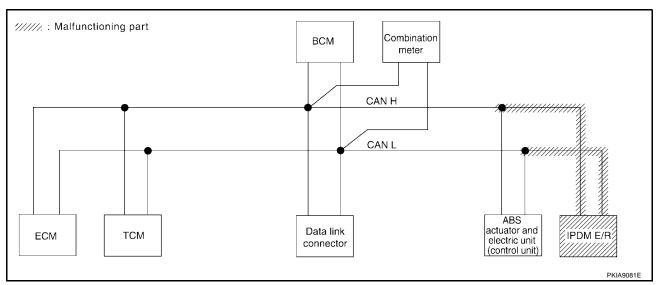
				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	FM screen	Initial	Transmit			Receive	diagnosis	i		SELE-DIAG	RESULTS
02220.0.0.		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	3221 Billio	, reduction
ENGINE	_		UNKWN	-	UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	_	_	
ВСМ	No indication	NG	UNKWN	UNKWN		_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	N/S	UNKWN	UNK WN	_	-		-		CAN COMM CIRCUIT (UV00)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN		_		CAN COMM CIRCUIT (U1000)	



Case 9

Check IPDM E/R circuit. Refer to LAN-142, "IPDM E/R Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	E/D		
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN		UNI S WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UM01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNK WN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	_	-	_	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	_		_	CAN COMM CIRCUIT (UX000)	



Case 10

Check CAN communication circuit. Refer to LAN-143, "CAN Communication Circuit Inspection".

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive of	diagnosis			SELF-DIAG	RESULTS
022201 0101		diagnosis		ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_		UNK WN	1	UNKWN	UNKWN	UN Y WN	_	UNK WN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_		
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	-	N	UNKWN	UNKWN	_	-	-	-		CAN COMM CIRCUIT (U 100)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U 100)	

Revision: November 2006 LAN-107 2006 Altima

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Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-144, "IPDM E/R Ignition Relay Circuit Check"</u> .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
			Transmit diagnosis	Receive diagnosis						SELF-DIAG RESULTS	
				ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_		UNKWN	1	UNIVAN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (UM01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	_	-	-	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	_	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-144, "IPDM E/R Ignition Relay Circuit Check"</u> .

		CAN DIAG SUPPORT MNTR									
SELECT SYSTEM screen		Transmit diagnosis	Receive diagnosis						SELF-DIAG RESULTS		
				тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R			
_		UNKWN	1	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
dication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)		
dication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_	
-	NG	UNKWN	_	_	-	_	-	_	CAN COMM CIRCUIT (U 100)	_	
dication	_	UNKWN	UNKWN	_	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	_	
	dication	dication NG dication NG - NG	- UNKWN dication NG UNKWN dication NG UNKWN - NG UNKWN	- UNKWN - dication NG UNKWN UNKWN dication NG UNKWN UNKWN NG UNKWN -	- - UNKWN - UNKWN dication NG UNKWN UNKWN - dication NG UNKWN UNKWN - - NG UNKWN - -	Unkwn C	Unkwn		Unkwn	CAN COMM CIRCUIT (U1000)	

CAN SYSTEM (TYPE 8)

CAN SYSTEM (TYPE 8)	
	[CAN]
CAN SYSTEM (TYPE 8)	PFP:23710
Component Parts and Harness Connector Location	UKS001SE
Refer to LAN-20, "Component Parts and Harness Connector Location".	
Schematic	UKS001SF
Refer to LAN-21, "Schematic" .	
Wiring Diagram — CAN —	uks001sg C
Refer to LAN-22, "Wiring Diagram — CAN —".	
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CHECK SHEET

NOTE:

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

				CAN	DIAG SU						
SELECT SYST		Initial	Transmit		1		diagnosis			SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	ТСМ	BCM /SEC	/M&A	VDC/TCS /ABS	IPDM E/R		
NGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
RANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	
СМ	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
BS	-	NG	UNKWN	UNKWN	UNKWN	_	-	_		CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT	
PDM E/R	No indication	-	UNKWN	UNKWN		UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	-
			Attach o				SE	Attach cop	yy of STEM		

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

CHECK SHEET RESULTS (EXAMPLE)

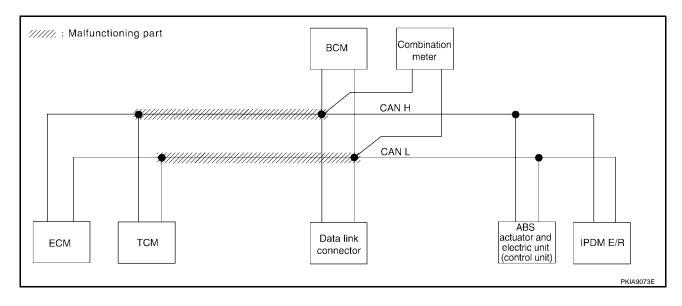
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-136, "Inspection Between TCM and Data Link Connector Circuit"</u>.

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive of	diagnosis			SELE-DIAG	RESULTS
00101	2 55,6611	diagnosis	Transmit diagnosis		тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI -DIAC	2 1 LEGGE 10
ENGINE	_		UNKWN	_	UNKWN	UNK WN	UN K ₩N	UNK WN	UNIVAN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	_	_	
ВСМ	No indication	NG	UNKWN	UNK WN		_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UMMAN	UNK WN	_		_	_	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	_	-	-	CAN COMMCIRCUIT (UN00)	_



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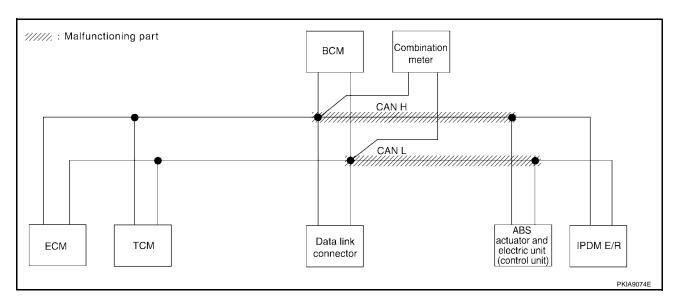
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-137</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

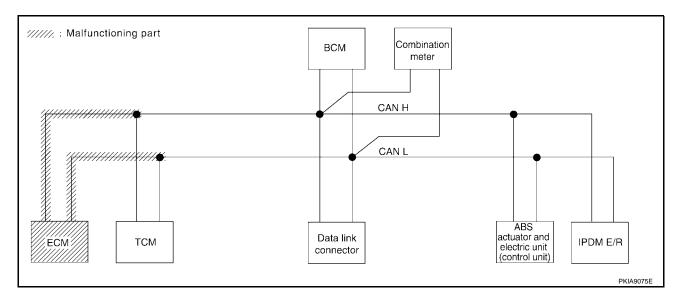
				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELE-DIAG	RESULTS
		diagnosis			тсм	BCM /SEC	/M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE			UNKWN	1	UNKWN	UNKWN	UNKWN	UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U M01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	-		_	
ВСМ	No indication	NG	UNKWN	UNKWN		_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UN W WN	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMMCIRCUIT (U 100)	



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Case 3
Check ECM circuit. Refer to <u>LAN-138</u>, "ECM Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
	diagn		diagnosis		тсм	BCM /SEC	/M&A	VDC/TCS /ABS	E/R		
ENGINE	_		UNIWN	1	UNK WN	U NK WN	UNYWN	UNK WN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (U M01)
TRANSMISSION	No indication	NG	UNKWN	-	_	-	UNKWN	UNKWN			
ВСМ	No indication	NG	UNKWN	UNIWN		_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNIWN	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	_	UNKWN	UNIMN	-	UNKWN	_	-	-	CAN COMMCIRCUIT (U 100)	_



CAN SYSTEM (TYPE 8)

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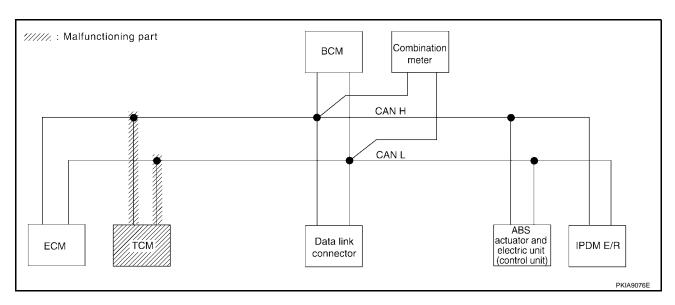
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Case 4
Check TCM circuit. Refer to <u>LAN-139</u>, "TCM Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELE-DIAG	RESULTS
0222010101		diagnosis		ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINC	TREGGETO
ENGINE			UNKWN	-	UNK WN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM CIRCUIT (U M01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_		UNKWN	UNKWN		-	_
всм	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS		NG	UNKWN	UNKWN	UNI WN	_		-		CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication		UNKWN	UNKWN	_	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	
											PKIC3630E



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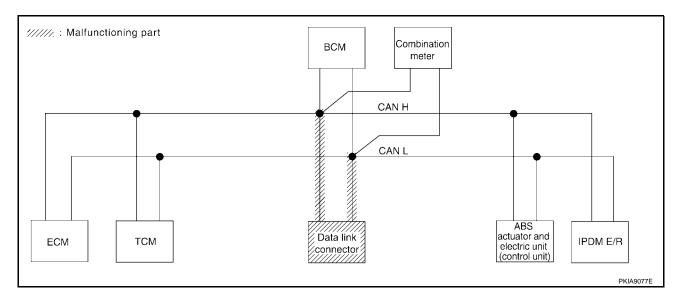
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Case 5
Check data link connector circuit. Refer to <u>LAN-140</u>, "<u>Data Link Connector Circuit Inspection</u>" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
	diagr		diagnosis		тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	3221 31/10	
ENGINE	_		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)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	-		_	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	



CAN SYSTEM (TYPE 8)

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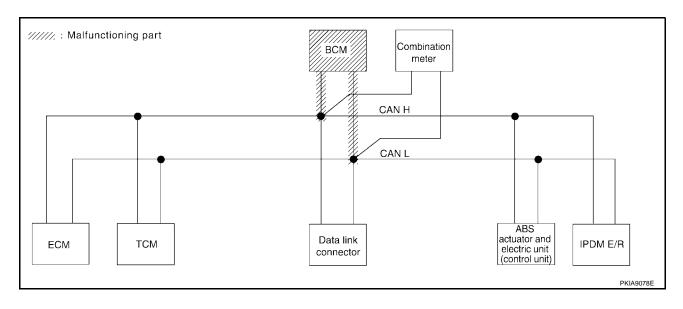
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Case 6
Check BCM circuit. Refer to <u>LAN-140, "BCM Circuit Inspection"</u>.

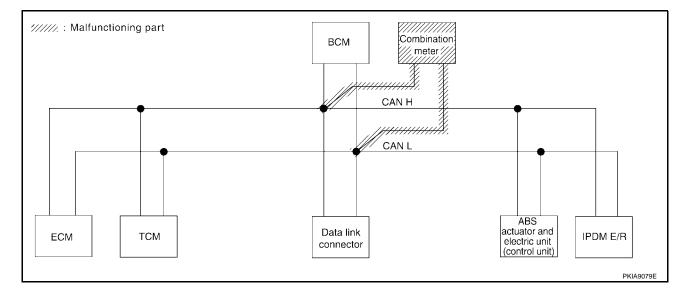
						2000-20					
				CAN		PPORT N					
SELECT SYST	EM screen	Initial	Transmit		•	Receive	diagnosis			SELE-DIAG	RESULTS
		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	022. 5.7.0	
ENGINE			UNKWN	1	UNKWN	Ω ΝΚ , ΜΝ	UNKWN	UNKWN	UNKWN	(U1000)	CAN COMM CIRCUIT (UM01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	1	CAN COMM CIRCUIT (U1000)	
всм	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	1	_	1	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UN K WN	_	_	_	CAN COMM CIRCUIT (U N00)	_
											PKIC3632E



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Case 7
Check combination meter circuit. Refer to <u>LAN-141</u>, "Combination Meter Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR					
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis	i		SELE-DIAG	RESULTS	
	diagn		diagnosis		тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINC		
ENGINE	_		UNKWN	1	UNKWN	UNKWN	UNK WN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-		UNKWN		-	_	
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNK WN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-	
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	-		CAN COMM CIRCUIT (U1000)		
IPDM E/R	No indication		UNKWN	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)		



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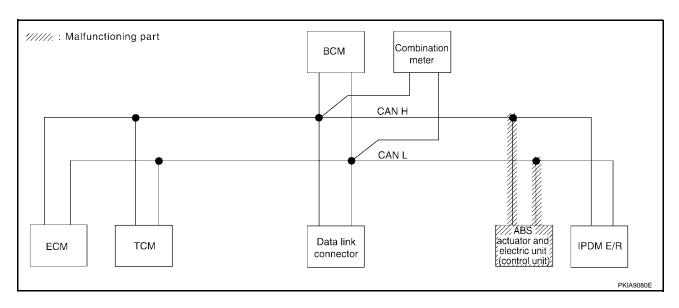
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Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-141</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	FM screen	Initial	Transmit			Receive	diagnosis			SELE-DIAG	RESULTS
0		diagnosis		1	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U M01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	_			
ВСМ	No indication	NG	UNKWN	UNKWN		_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
ABS	_	N/S	UNKWN	UNK WN	UNK WN	_		_	_	CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication		UNKWN	UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	

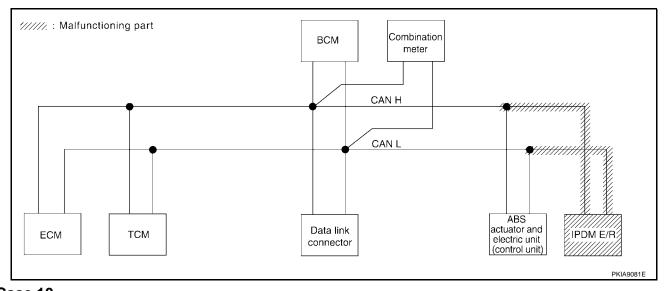


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Case 9
Check IPDM E/R circuit. Refer to <u>LAN-142, "IPDM E/R Circuit Inspection"</u>.

				CAN		PPORT N					
SELECT SYST	EM screen	Initial	Transmit		,	Receive	diagnosis			SELF-DIAG	RESULTS
		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	E/D		
ENGINE	_		UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNK WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
ВСМ	No indication	NG	UNKWN	UNKWN		_	UNKWN	_	UNK WN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	UNKWN	_		-	_	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (UN00)	



Case 10 Check CAN communication circuit. Refer to <u>LAN-143</u>, "CAN Communication Circuit Inspection" .

				CAN		PPORT N					
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
		diagnosis		ECM	тсм	BCM /SEC	/M&A	VDC/TCS /ABS	E/R		
ENGINE	_		UNKWN	_	UNKWN	UNI	UNIWN	UN Y WN	UNK WN	CAN COMIC CIRCUIT (UN00)	CAN COMM CIRCUIT (U 1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	_		UNKWN		_	
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	N	UNKWN	UNK WN	UNIWN	_		_		CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U 00)	_

CAN SYSTEM (TYPE 8)

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Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-144, "IPDM E/R Ignition Relay Circuit Check"</u>.

				CAN	DIAG SU						
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
		diagnosis		ECM	тсм	BCM /SEC	/M&A	VDC/TCS /ABS	IPDM E/R		- -
ENGINE	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	UNIWN	UNKWN	CAN COMY CIRCUIT (U 1000)	CAN COMM CIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-		UNKWN		CAN COMM CIRCUIT (U1000)	
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	UNKWN	_		_	_	CAN COMM CIRCUIT (U1000)	<u></u>
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-144, "IPDM E/R Ignition Relay Circuit Check"</u>.

				CAN	DIAG SU	PPORT N	INTR					
SELECT SYST	FM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS	
0			diagnosis		тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OEEI DINE		
ENGINE	_	_	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)		
ВСМ	No indication	NG	UNKWN	UNKWN		_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-	
ABS	_	NG	UNKWN	_	UNKWN	_		-	_	CAN COMM CIRCUIT (U 100)		
IPDM E/R	No indication		UNKWN	UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_	

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CAN SYSTEM (TYPE 9)

CAN SYSTEM (TYPE 9) Component Parts and Harness Connector Location Refer to LAN-20, "Component Parts and Harness Connector Location" Schematic Refer to LAN-21, "Schematic" Wiring Diagram — CAN —

Refer to LAN-22, "Wiring Diagram — CAN —" .

CAN SYSTEM (TYPE 9)

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CHECK SHEET UKS001RO

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				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM coroon					Receive				SELF-DIAG	DECLITO
SELECT STST	LIVI SCIEETI	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	I NESULIS
ENGINE	_	_	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)	
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_		_	CAN COMM CIRCUIT (U1000)	-
, 180 		L		L							
IPDM E/R Symptoms:	No indication		UNKWN	UNKWN		UNKWN	_	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN		UNKWN	_	-		CAN COMM CIRCUIT	_
IPDM E/R	No indication		UNKWN	UNKWN	_	UNKWN				CAN COMM CIRCUIT	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	UNKWN	_		_	CAN COMM CIRCUIT	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	_		CAN COMM CIRCUIT	
IPDM E/R	No indication				_	UNKWN			_	CAN COMM CIRCUIT	
IPDM E/R	No indication		UNKWN Attach co	opy of	_	UNKWN		 Attach cop LECT SY		CAN COMM CIRCUIT	
IPDM E/R	No indication		Attach co	opy of	_	UNKWN		Attach cop		CAN COMM CIRCUIT	_
IPDM E/R	No indication		Attach co	opy of	_	UNKWN		Attach cop		CAN COMM CIRCUIT	

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

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

PKIC3639E

LAN-123 Revision: November 2006 2006 Altima

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EN EN	n copy of GINE G RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	
ļ A	n copy of IBS G RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS		
EN CAN DIAG	n copy of GINE G SUPPORT NTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	
CAN DIAG	n copy of NBS 3 SUPPORT NTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR		

CHECK SHEET RESULTS (EXAMPLE)

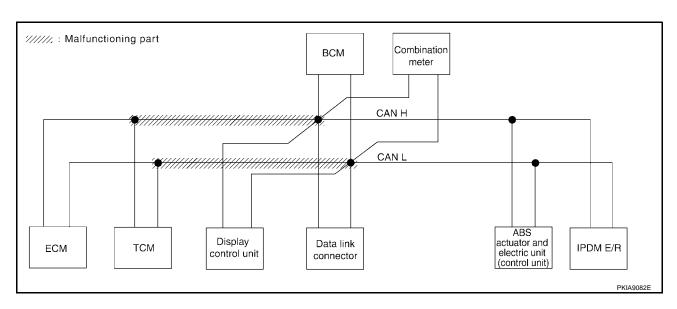
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-136</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive of	diagnosis			SELF-DIAG	RESULTS
	di		diagnosis		тсм	BCM METER VDC/TCS /SEC /M&A /ABS			IPDM E/R	OLLI DINC	TREODETO
ENGINE	_		UNKWN	_	UNKWN	UNK WN	UN K ₩N	UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	1	UNKWN	UNKWN	_		-
Display control unit	-	NG	UNKWN	NNK WN	_	UNKWN	UNKWN	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNK WN	_	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	<u></u>
ABS	-	NG	UNKWN	UNKWN	UNKWN	1		_	_	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNK WN	-	UNKWN				CAN COMMCIRCUIT (U 100)	_



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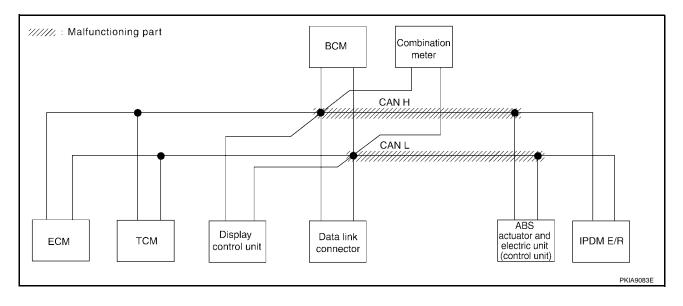
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-137</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
		diagnosis		ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	E/R		
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	UNI S WN	UNIV	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U M01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	_	_	_
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	-	UNKWN	-	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	_	UNK WN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UMMAN	UNKWN	_	-	-	_	CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		_	_	CAN COMM/CIRCUIT (U 100)	



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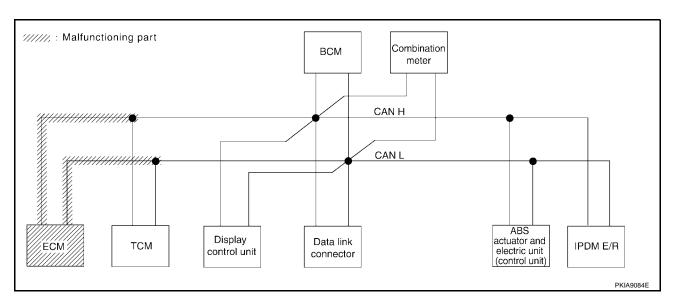
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Case 3
Check ECM circuit. Refer to <u>LAN-138</u>, "ECM Circuit Inspection" .

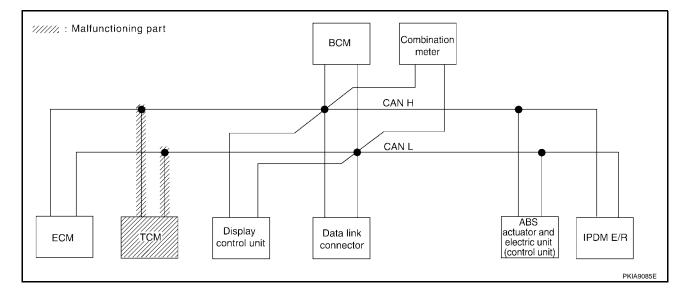
				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive of	diagnosis			SELF-DIAG	RESULTS
000001	EW SOICEN	diagnosis		ECM	тсм	BCM /SEC	/M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNIWN	-	UNK WN	UNKWN	UN W NN	UNK WN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	-	-	1	UNKWN	UNKWN	-	_	_
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	-	UNKWN	_	
ВСМ	No indication	NG	UNKWN	UNIWN	-	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNI WN	UNKWN	_		-	_	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No indication	-	UNKWN	NN WN	_	UNKWN		_		CAN COMMCIRCUIT (U 100)	_



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Case 4
Check TCM circuit. Refer to <u>LAN-139</u>, "TCM Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_		UNKWN	_	UNK WN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	CAN COMM/CIRCUIT (UM01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	1	-	UNKWN	UNKWN	-	_	_
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	UNKWN	_		-	_	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	



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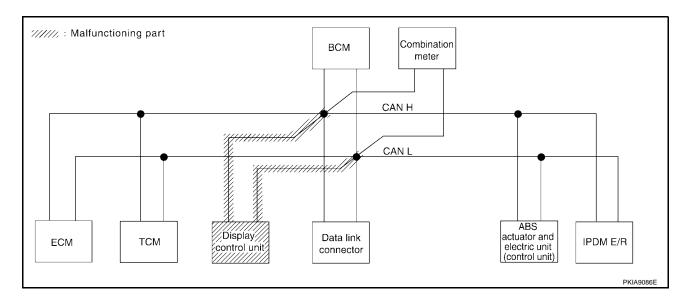
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Case 5
Check display control unit circuit. Refer to <u>LAN-139</u>, "<u>Display Control Unit Circuit Inspection</u>" .

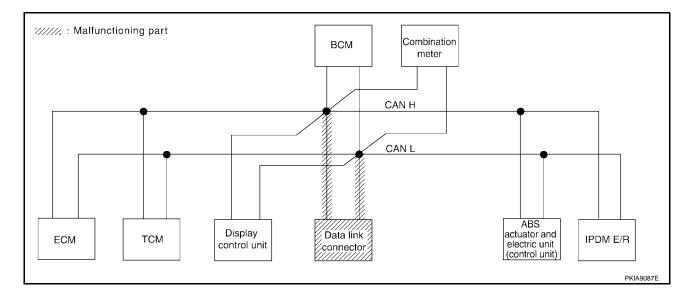
				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS
0222010101	E.W. 55/55/1	diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OEEI DINE	TREGOLIO
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	ŀ	ł	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UN K ₩N	NNK WN	_	UNK WN	UNKWN	-	UNIA WN	_	_
всм	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	UNKWN	_		_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN		_		CAN COMM CIRCUIT (U1000)	_



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Case 6
Check data link connector circuit. Refer to <u>LAN-140</u>, "<u>Data Link Connector Circuit Inspection</u>" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	FM screen	Initial	Transmit			Receive	diagnosis			SELE-DIAG	RESULTS
		diagnosis		ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	0221 01/10	TREGETO
ENGINE	_	-	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)	-
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	UNKWN		-
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	_		_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	-



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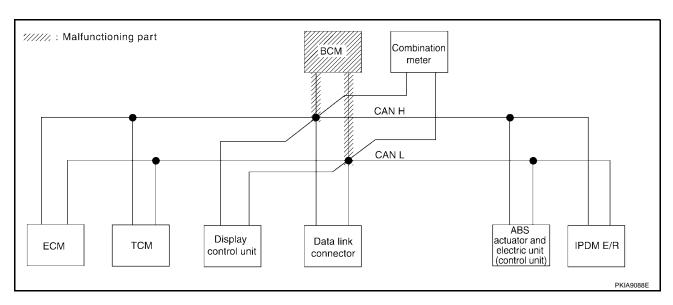
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Case 7

Check BCM circuit. Refer to LAN-140, "BCM Circuit Inspection" .

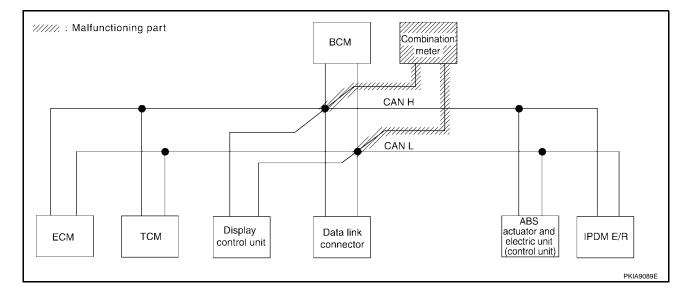
				CAN	DIAG SU	PPORT N	INTR					
SELECT SYST	FM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG RESULTS		
022201 0101		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI -DIAC		
ENGINE	_		UNKWN	_	UNKWN	UNK WN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	1	ł	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-	
Display control unit	_	NG	UNKWN	UNKWN	_	UNK WN	UNKWN	-	UNKWN	_	_	
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)		
ABS	_	NG	UNKWN	UNKWN	UNKWN	-		-	_	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	-	UNKWN	UNKWN	_	UN K WN		-	_	CAN COMM CIRCUIT (U N00)	_	



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Case 8
Check combination meter circuit. Refer to <u>LAN-141</u>, "Combination Meter Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	FM screen	Initial	Transmit			Receive o	diagnosis			SELF-DIAG RESULTS	
		diagnosis		ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	-	UNKWN	UNKWN	UN W WN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UM01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-		UNKWN	1	_	_
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNK WN	-	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	<u>—</u>
ABS	_	NG	UNKWN	UNKWN	UNKWN	-		_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	-



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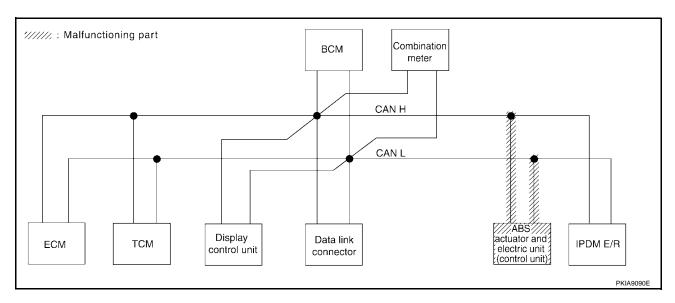
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Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-141</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

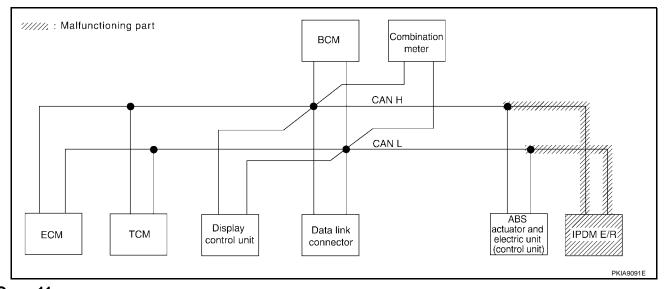
				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive of	diagnosis			SELF-DIAG RESULTS	
022201 0101	EN SOICEN	diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI -DIAC	TREGOLIG
ENGINE	_		UNKWN	_	UNKWN	UNKWN	UNKWN	UNK WN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UM01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	_	_		_
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	-	UNKWN	_	
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	N	UNK WN	UNK WN	UNKWN	-	-	-	_	CAN COMM CIRCUIT (UV00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	



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Case 10
Check IPDM E/R circuit. Refer to <u>LAN-142, "IPDM E/R Circuit Inspection"</u>.

				CAN	DIAG SU	PPORT N	INTR					
SELECT SYST	EM screen	Initial	Transmit			Receive of	diagnosis			SELF-DIAG RESULTS		
		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	E/D			
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNK WN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UT001)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)		
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	1	UNK WN			
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN		UN K ₩N	CAN COMM CIRCUIT (U1000)		
ABS	_	NG	UNKWN	UNKWN	UNKWN	_		-	_	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		_		CAN COMM CIRCUIT (UN000)		



Case 11 Check CAN communication circuit. Refer to <u>LAN-143</u>, "CAN Communication Circuit Inspection" .

				CAN	DIAG SU	PPORT N	INTR				
SELECT SYST	EM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG RESULTS	
		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	_	UNWWN	UNKWN	UN Y WN	UN Y WN	Π ΜΑ ΜΝ	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (UN01)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN			
Display control unit	_	NG	UNI WN	UNK WN	_	Π ΛΚ ΜΝ	UNK WN	-	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	_	N.	UNKWN	UNK WN	UNIMN	_		-	_	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No indication		UNKWN	UNKWN	_	UNKWN		_	_	CAN COMM CIRCUIT (U 100)	_

CAN SYSTEM (TYPE 9)

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Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-144, "IPDM E/R Ignition Relay Circuit Check"</u>.

				CAN		PPORT N						
SELECT SYST	FM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG RESULTS		
		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINE		
ENGINE	_	_	UNKWN	_	UNIWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMICIRCUIT (UM00)	CAN COMM CIRCUIT (UN01)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)		
Display control unit	_	NG	UNKWN	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	_	
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)		
ABS	_	NG	UNKWN	UNKWN	UNKWN	_		-	_	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indication	-	UNKWN	UNKWN	_	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	_	

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-144, "IPDM E/R Ignition Relay Circuit Check" .

				CAN	DIAG SU	PPORT N	INTR					
SELECT SYST	FM screen	Initial	Transmit			Receive	diagnosis			SELF-DIAG	RESULTS	
		diagnosis			тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINE		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	1	CAN COMM CIRCUIT (U1000)	-	
Display control unit	_	NG	UNKWN	UNKWN		UNKWN	UNKWN	_	UNKWN		ı	
ВСМ	No indication	NG	UNKWN	UNKWN		_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)		
ABS	-	NG	UNKWN	-	UNKWN	_	******	-	_	CAN COMM CIRCUIT (U 100)	_	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		_		CAN COMM CIRCUIT (U1000)	_	

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TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

TROUBLE DIAGNOSIS FOR SYSTEM

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Inspection Between TCM and Data Link Connector Circuit

UKS004PN

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
- Harness connector F59
- Harness connector M71

OK or NG

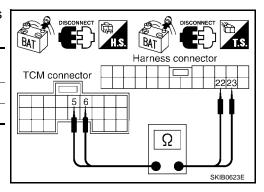
OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

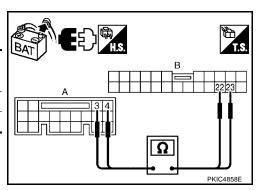
- 1. Disconnect TCM connector and harness connector F59.
- 2. Check the following.
- 4A/T models
- Check continuity between TCM harness connector and harness connector.

TCM connector	Terminal	Harness con- nector	Terminal	Continuity
F56	5	F59	23	Yes
1.30	6	1 39	22	Yes



- 5A/T models
- Check continuity between TCM harness connector and harness connector.

	A		В	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
F56	3	F59	23	Yes	
F30	4	F39	22	Yes	



OK or NG

OK >> GO TO 3.

NG >> Repair harness.

TROUBLE DIAGNOSIS FOR SYSTEM

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3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector and data link connector.

Harness con- nector	Terminal	Data link con- nector	Terminal	Continuity
M71	23	M22	6	Yes
IVI7 I	22	IVIZZ	14	Yes

Harness connector Data link connector 14 6 SVIDSEALE

OK or NG

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

NG >> Repair harness.

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

CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
- Harness connector M7
- Harness connector E28

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect harness connector M7.
- Check continuity between data link connector and harness connector.

Data link con- nector	Terminal	Harness con- nector	Terminal	Continuity
M22	6	M7	10	Yes
IVIZZ	14	IVIT	9	Yes

Data link connector Harness connector Ω SKIB0665E

OK or NG

OK >> GO TO 3.

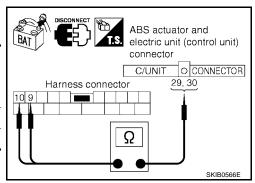
NG >> Repair harness.

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3. CHECK HARNESS FOR OPEN CIRCUIT

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

Harness con- nector	Terminal	ABS actuator and electric unit (control unit)	Terminal	Continuity
E28	10	E125	30	Yes
	9	L125	29	Yes



OK or NG

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

NG >> Repair harness.

ECM Circuit Inspection

UKS004U3

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
- M/T models
- ECM connector
- Harness connector F59
- Harness connector M71
- A/T models
- ECM connector

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

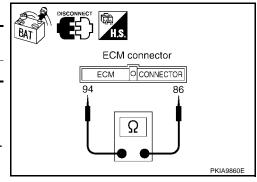
ECM connector	Terminal		Resistance (approx.)
F54	94	86	108 – 132 Ω

OK or NG

OK >> Replace ECM.

NG >> ● M/T models

- Repair harness between ECM and data link connector.
- A/T models
- Repair harness between ECM and harness connector F59.



TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

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TCM Circuit Inspection

1. CHECK CONNECTOR

Turn ignition switch OFF.

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

OK or NG

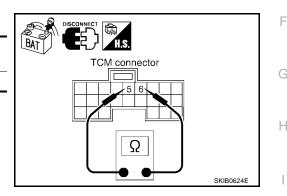
OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect TCM connector.
- 2. Check the following.
- 4A/T models
- Check resistance between TCM harness connector terminals.

TCM connector	Terminal		Resistance (approx.)
F56	5	6	54 – 66 Ω



- 5A/T models
- Check resistance between TCM harness connector terminals.

TCM connector	Terminal		Resistance (approx.)
F56	3	4	54 – 66 Ω

OK or NG

OK >> Replace TCM.

NG

>> Repair harness between TCM and harness connector F59.

TCM connector SKIB1816E

UKS001RI

Display Control Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

LAN-139 2006 Altima Revision: November 2006

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2. CHECK HARNESS FOR OPEN CIRCUIT

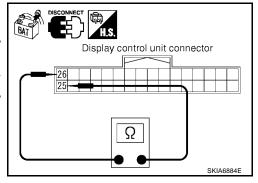
- 1. Disconnect display control unit connector.
- Check resistance between display control unit harness connector terminals.

Display control unit connector	Terminal		Resistance (approx.)
M95	25	26	$54-66~\Omega$

OK or NG

OK >> Replace display control unit.

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



UKS001RF

Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

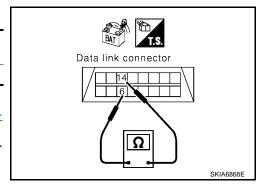
Data link connector	Terminal		Resistance (approx.)
M22	6	14	54 – 66 Ω

OK or NG

NG

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

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



UKS001RH

BCM Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

TROUBLE DIAGNOSIS FOR SYSTEM

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2. CHECK HARNESS FOR OPEN CIRCUIT

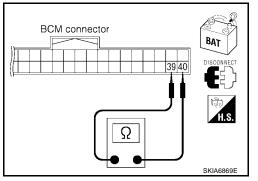
- 1. Disconnect BCM connector.
- 2. Check resistance between BCM harness connector terminals.

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

OK or NG

OK >> Replace BCM. Refer to BCS-20, "Removal and Installation of BCM"

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



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Combination Meter Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

Combination meter connector	Terminal		Resistance (approx.)
M24	26	27	$54-66~\Omega$

OK or NG

OK >> Replace combination meter.

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

Combination meter connector SKIB0569E

ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

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2. CHECK HARNESS FOR OPEN CIRCUIT

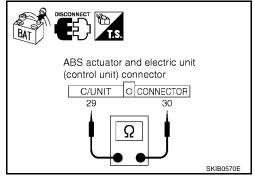
- 1. Disconnect ABS actuator and electric unit (control unit) connector.
- Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (approx.)
E125	29	30	54 – 66 Ω

OK or NG

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

NG >> Repair harness between ABS actuator and electric unit (control unit) and harness connector E28.



UKS001RK

IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).
- 5M/T and 4A/T models
- IPDM E/R connector
- Harness connector E28
- Harness connector M7
- 6M/T and 5A/T models
- IPDM E/R connector

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

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

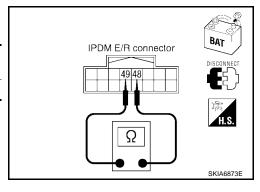
IPDM E/R connector	Terminal		Resistance (approx.)
E121	48	49	$108 - 132 \Omega$

OK or NG

OK >> Replace IPDM E/R.

NG >> ● 5M/T and 4A/T models

- Repair harness between IPDM E/R and data link connector.
- 6M/T and 5A/T models
- Repair harness between IPDM E/R and harness connector E28.



[CAN]

CAN Communication Circuit Inspection

1. CHECK CONNECTOR

Turn ignition switch OFF.

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

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORT CIRCUIT

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

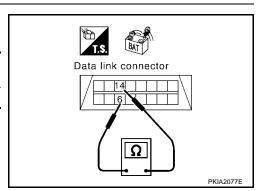
Data link connector	Terminal		Continuity
M22	6	14	No

OK or NG

OK >> GO TO 3.

>> • Repair harness. NG

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



$3.\,$ check harness for short circuit

Check continuity between data link connector M22 terminals 6, 14 and ground.

Data link connector	Terminal		Continuity
M22	6	Ground	No
	14		No

OK or NG

OK >> GO TO 4.

NG >> • Repair harness.

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

Data link connector 6 <u>6, 14</u>

4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

Check resistance between ECM terminals.

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

Check resistance between IPDM E/R terminals.

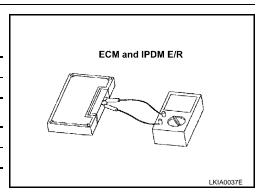
Terminal		Resistance (Approx.)
48	49	108 – 132 Ω

LAN-143

OK or NG

OK >> GO TO 5.

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



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2006 Altima

TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

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.

OK or NG

OK >> GO TO 6.

NG >> Refer to LAN-13, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"

6. UNIT REPRODUCIBILITY INSPECTION

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

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

Inspection results

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

Not reproduced>>Replace removed unit.

IPDM E/R Ignition Relay Circuit Check

UKS004PL

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

- IPDM E/R power supply circuit. Refer to PG-26, "IPDM E/R Power/Ground Circuit Inspection".
- Ignition power supply circuit. Refer to <u>PG-12, "IGNITION POWER SUPPLY IGNITION SW. IN ON AND/OR START"</u>.