

SECTION **LAN**  
LAN SYSTEM

A  
B  
C

CONTENTS

D  
E

<b>CAN</b>	<b>CAN COMMUNICATION</b>	<b>20</b>
<b>PRECAUTIONS</b> .....	System Description .....	20
Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	Component Parts and Harness Connector Location..	20
Precautions When Using CONSULT-II .....	Schematic .....	21
CHECK POINTS FOR USING CONSULT-II .....	Wiring Diagram — CAN — .....	22
Precautions For Trouble Diagnosis .....	CAN Communication Unit .....	25
CAN SYSTEM .....	TYPE1/TYPE4 .....	25
Precautions For Harness Repair .....	TYPE2/TYPE3 .....	27
CAN SYSTEM .....	TYPE5 .....	30
<b>TROUBLE DIAGNOSES WORK FLOW</b> .....	TYPE6 .....	31
When Displaying CAN Communication System Errors .....	TYPE7 .....	33
WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM .....	TYPE8/TYPE9 .....	35
WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM .....	<b>CAN SYSTEM (TYPE 1)</b> .....	<b>38</b>
TROUBLE DIAGNOSIS FLOW CHART .....	Component Parts and Harness Connector Location..	38
Diagnosis Procedure .....	Schematic .....	38
SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE) .....	Wiring Diagram — CAN — .....	38
ACQUISITION OF DATA BY CONSULT-II .....	CHECK SHEET .....	39
HOW TO USE CHECK SHEET TABLE .....	CHECK SHEET RESULTS (EXAMPLE) .....	40
CAN Diagnostic Support Monitor .....	<b>CAN SYSTEM (TYPE 2)</b> .....	<b>45</b>
DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ECM .....	Component Parts and Harness Connector Location..	45
DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TCM .....	Schematic .....	45
DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR BCM .....	Wiring Diagram — CAN — .....	45
DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) .....	CHECK SHEET .....	46
DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR IPDM E/R .....	CHECK SHEET RESULTS (EXAMPLE) .....	47
DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DISPLAY CONTROL UNIT .....	<b>CAN SYSTEM (TYPE 3)</b> .....	<b>55</b>
	Component Parts and Harness Connector Location..	55
	Schematic .....	55
	Wiring Diagram — CAN — .....	55
	CHECK SHEET .....	56
	CHECK SHEET RESULTS (EXAMPLE) .....	58
	<b>CAN SYSTEM (TYPE 4)</b> .....	<b>67</b>
	Component Parts and Harness Connector Location..	67
	Schematic .....	67
	Wiring Diagram — CAN — .....	67
	CHECK SHEET .....	68
	CHECK SHEET RESULTS (EXAMPLE) .....	70
	<b>CAN SYSTEM (TYPE 5)</b> .....	<b>76</b>
	Component Parts and Harness Connector Location..	76
	Schematic .....	76

F  
G  
H  
I  
J  
L  
M

LAN

Wiring Diagram — CAN — .....	76	<b>CAN SYSTEM (TYPE 9) .....</b>	<b>122</b>
CHECK SHEET .....	77	Component Parts and Harness Connector Location	122
CHECK SHEET RESULTS (EXAMPLE) .....	78	Schematic .....	122
<b>CAN SYSTEM (TYPE 6) .....</b>	<b>86</b>	Wiring Diagram — CAN — .....	122
Component Parts and Harness Connector Location..	86	CHECK SHEET .....	123
Schematic .....	86	CHECK SHEET RESULTS (EXAMPLE) .....	125
Wiring Diagram — CAN — .....	86	<b>TROUBLE DIAGNOSIS FOR SYSTEM .....</b>	<b>136</b>
CHECK SHEET .....	87	Inspection Between TCM and Data Link Connector	
CHECK SHEET RESULTS (EXAMPLE) .....	88	Circuit .....	136
<b>CAN SYSTEM (TYPE 7) .....</b>	<b>96</b>	Inspection Between Data Link Connector and ABS	
Component Parts and Harness Connector Location..	96	Actuator and Electric Unit (Control Unit) Circuit ...	137
Schematic .....	96	ECM Circuit Inspection .....	138
Wiring Diagram — CAN — .....	96	TCM Circuit Inspection .....	139
CHECK SHEET .....	97	Display Control Unit Circuit Inspection .....	139
CHECK SHEET RESULTS (EXAMPLE) .....	99	Data Link Connector Circuit Inspection .....	140
<b>CAN SYSTEM (TYPE 8) .....</b>	<b>109</b>	BCM Circuit Inspection .....	140
Component Parts and Harness Connector Location	109	Combination Meter Circuit Inspection .....	141
Schematic .....	109	ABS Actuator and Electric Unit (Control Unit) Circuit	
Wiring Diagram — CAN — .....	109	Inspection .....	141
CHECK SHEET .....	110	IPDM E/R Circuit Inspection .....	142
CHECK SHEET RESULTS (EXAMPLE) .....	112	CAN Communication Circuit Inspection .....	143
		IPDM E/R Ignition Relay Circuit Check .....	144

**PRECAUTIONS**

PFP:00001

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

UKS0010F

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

**WARNING:**

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

**Precautions When Using CONSULT-II**

UKS001R6

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

**CAUTION:**

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

**CHECK POINTS FOR USING CONSULT-II**

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

**Precautions For Trouble Diagnosis CAN SYSTEM**

UKS0010G

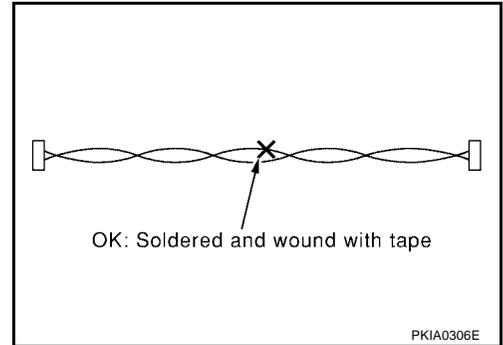
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

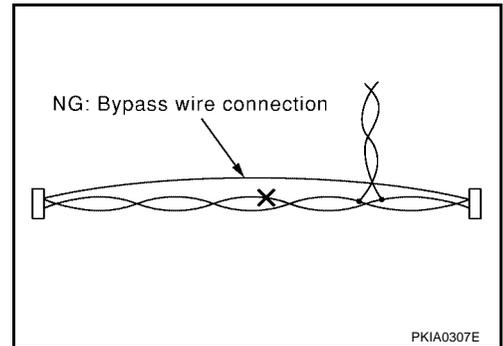
LAN

## Precautions For Harness Repair CAN SYSTEM

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



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



**TROUBLE DIAGNOSES WORK FLOW**

PFP:00004

**When Displaying CAN Communication System Errors**

UKS001YO

**WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM**

- 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**

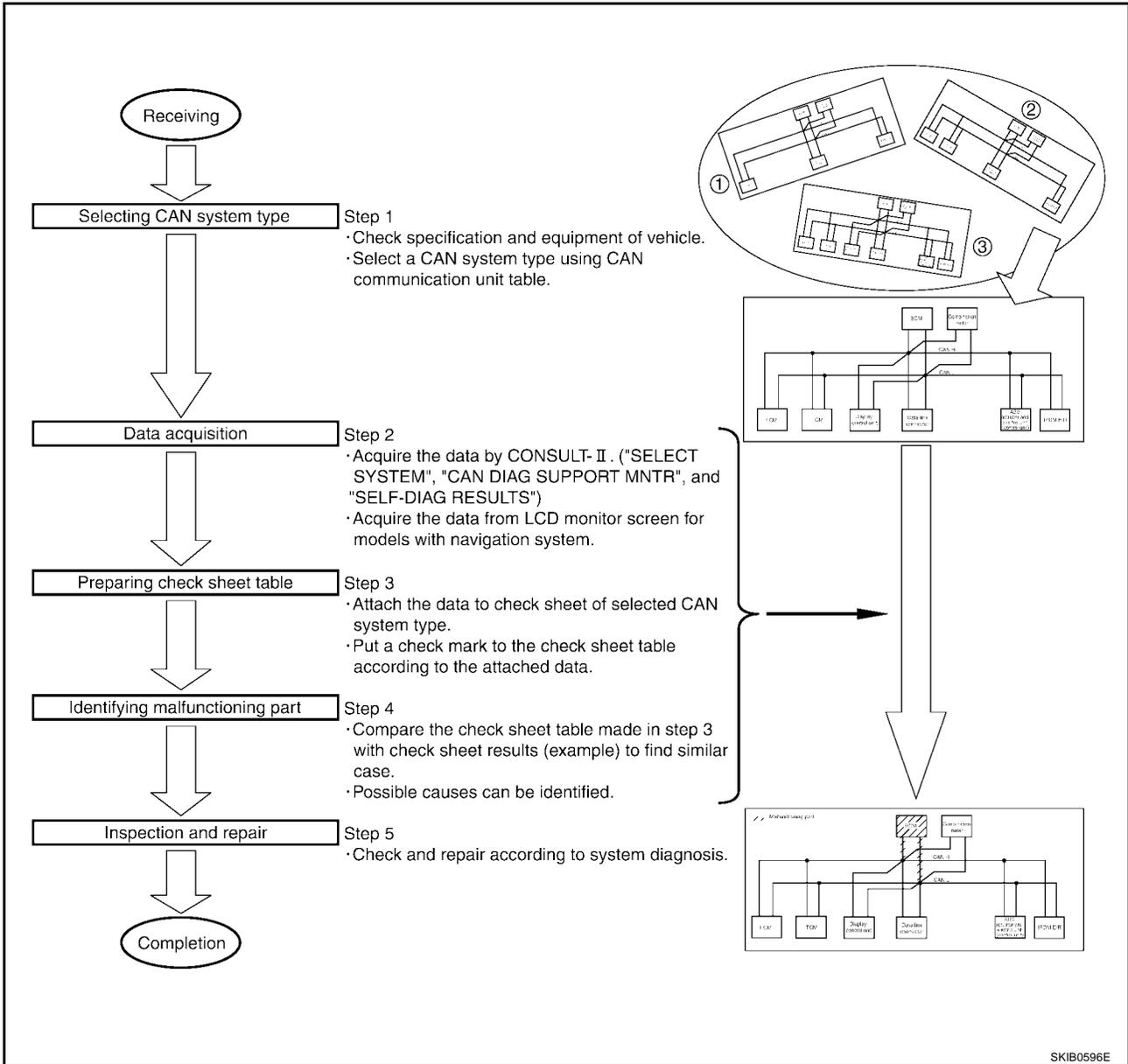
- Removal and installation of parts: When the units that perform CAN communication or the sensors related to CAN communication are removed and installed, malfunction may be detected (or DTC other than CAN communication may be detected).
- Fuse blown out (removed): CAN communication of the unit may be 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.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

## 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 [LAN-8, "ACQUISITION OF DATA BY CONSULT-II"](#) .
- Step 3: Refer to [LAN-9, "HOW TO USE CHECK SHEET TABLE"](#) .
- Step 4: Refer to [LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- Step 5: Refer to [LAN-136, "TROUBLE DIAGNOSIS FOR SYSTEM"](#) .

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

UKS001YP

## Diagnosis Procedure

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

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

(Example) Sedan/2WD/VQ35DE/5AT/TCS/With navigation system

#### CAN Communication Unit

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

Body type	Sedan												
Axle	2WD												
Engine	QR25DE					VQ35DE							
Transmission	5M/T		4A/T			5M/T		6M/T		5A/T			
Brake control	No ABS	ABS	No ABS	ABS		No ABS	ABS	ABS	TCS	ABS	TCS		
Navigation system					x			x			x		
CAN system type	1		2		3	1		4	5	6	7	8	9
CAN system trouble diagnosis	ⓧ	ⓧ	ⓧ	ⓧ	ⓧ	ⓧ	ⓧ	ⓧ	ⓧ	ⓧ	ⓧ	ⓧ	ⓧ

x: Applicable

Check basic specification of the vehicle.

Select "x" if it is model with navigation system.

Which number is selected when sequentially selecting from the top of the specification table?  
The number is "CAN system type" of the applicable vehicle.

In the case of this example:  
It corresponds to type 9.

PKIC2630E

A  
B  
C  
D  
E  
F  
G  
H  
I  
J

LAN

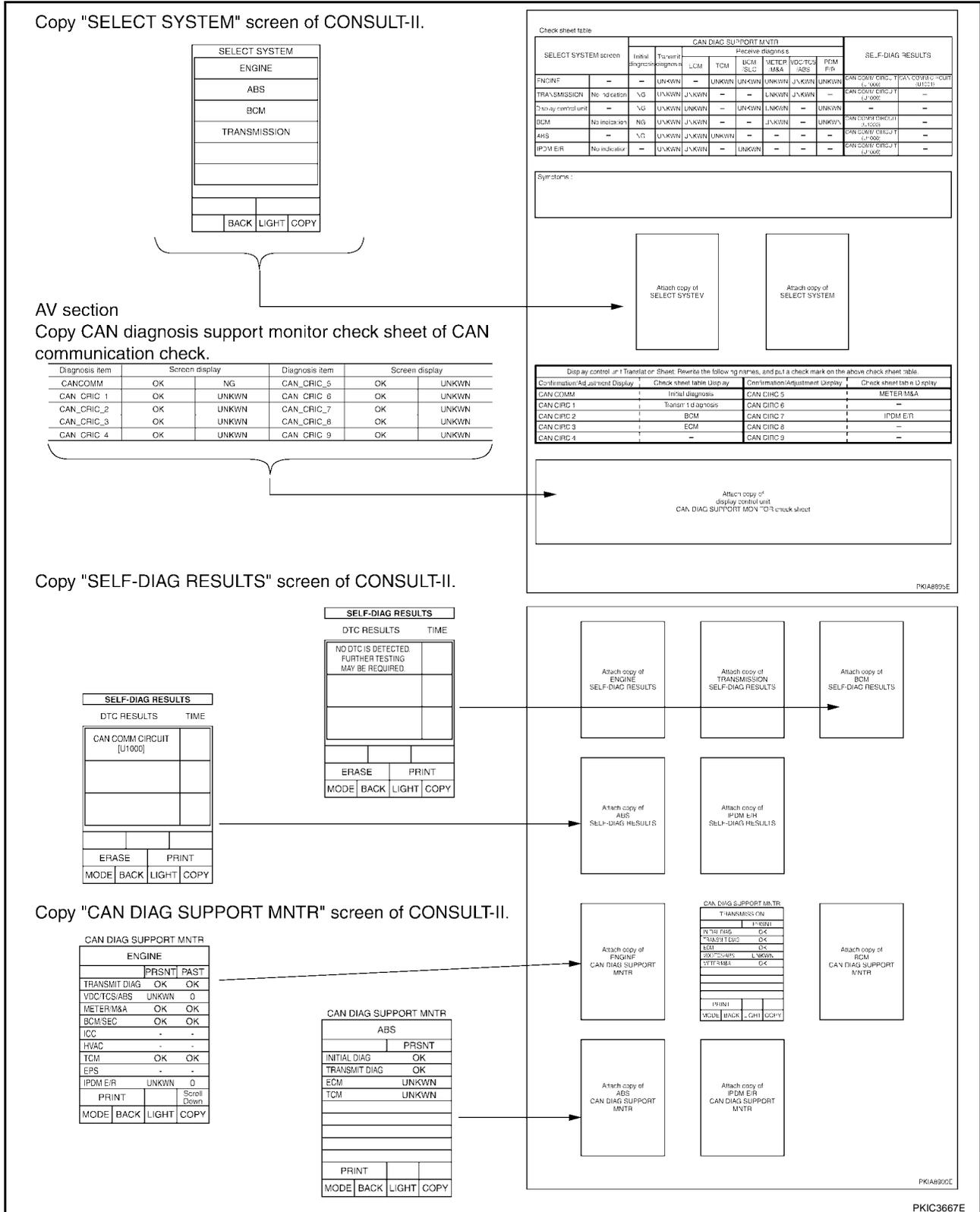
L  
M

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## 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"](#).)



## HOW TO USE CHECK SHEET TABLE

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	UNKWN	—
BCM	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	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3668E

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

**NOTE:**

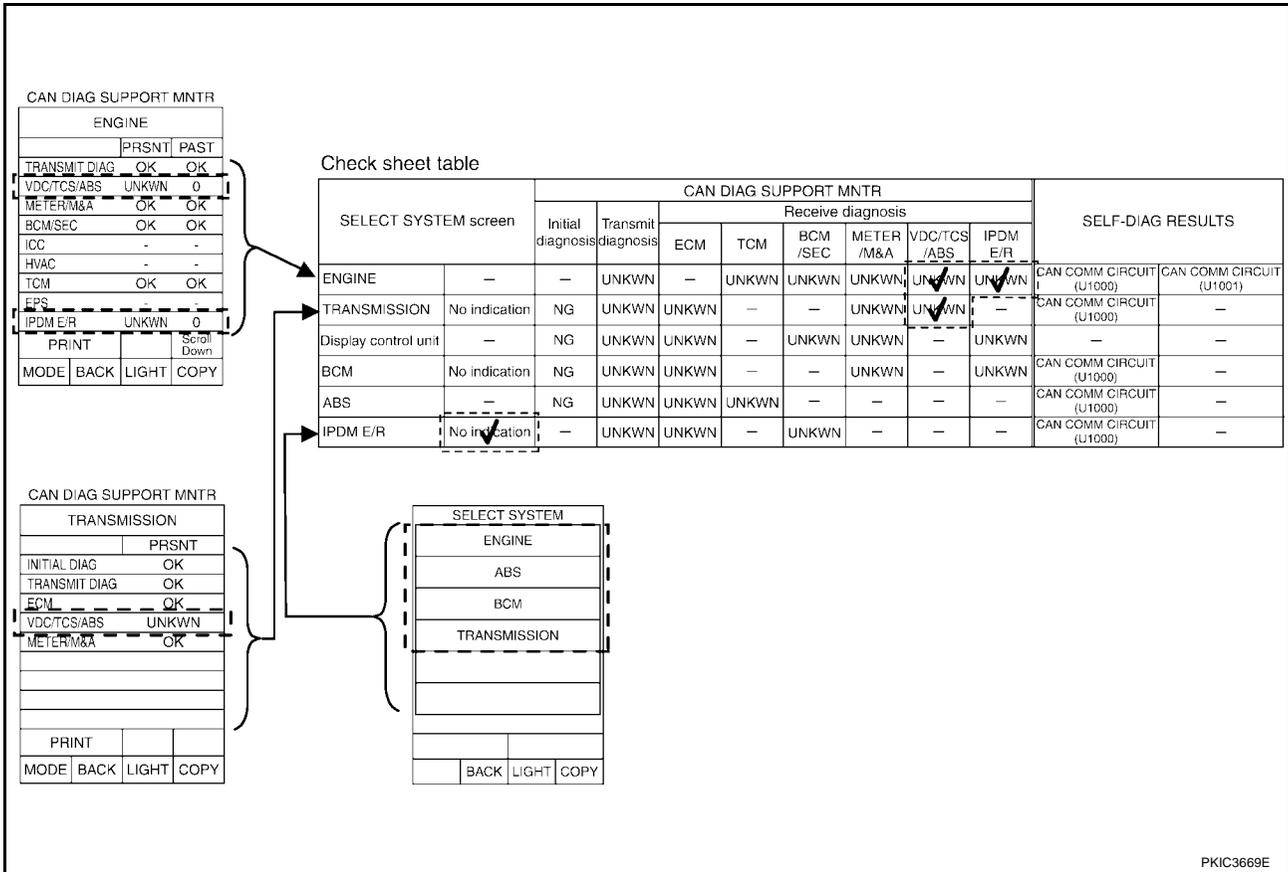
CAN communication diagnosis checks if CAN communication works normally. (Contents of data are not diagnosed.)

- When the initial conditions are reproduced, refer to [LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced"](#) .
- When the initial conditions are not reproduced, refer to [LAN-13, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced"](#) .

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

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



PKIC3669E

- 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.

- 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.

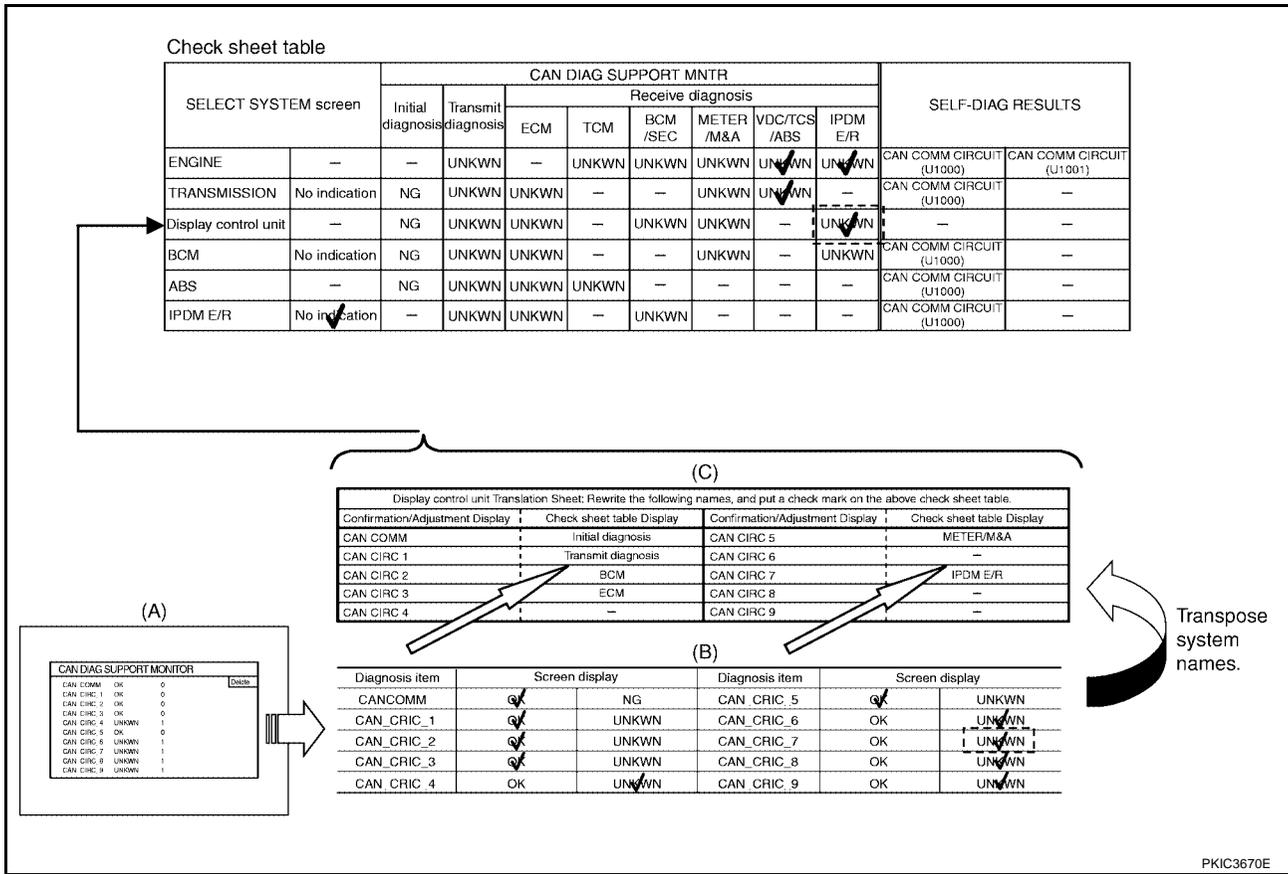
- Confirm the unit name that “UNKWN” is displayed on the copy of “CAN DIAG SUPPORT MNTR” screen of “TRANSMISSION” as well as “ENGINE”. And then, put a check mark to the check sheet table.

**NOTE:**

- For “TRANSMISSION”, “UNKWN” is displayed on “VDC/TCS/ABS”. Put a check mark to it.

# TROUBLE DIAGNOSES WORK FLOW

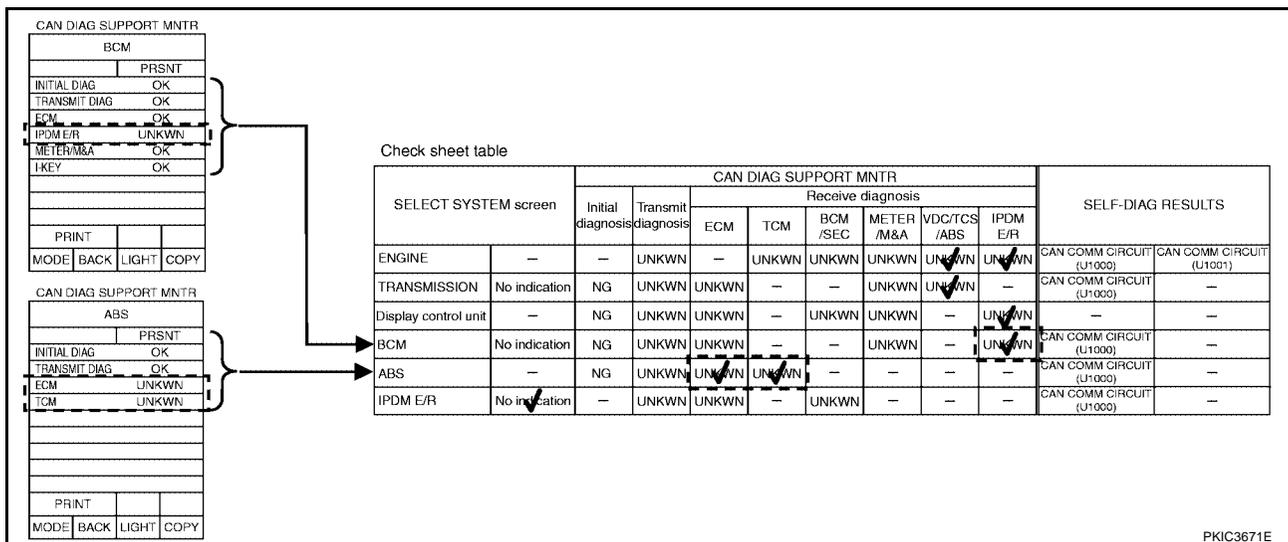
[CAN]



4. Display control unit reads the CAN diagnosis support monitor check sheet (B) [AV-126, "CAN Communication Line Check"](#) 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 "UNKWVN" is listed on the column of reception diagnosis of the check sheet table.



5. Confirm the unit name that "UNKWVN" 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.

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

**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.

The arranged results of CAN diagnosis support monitor

Check sheet table

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R			
			ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	UNKWN				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

Choose similar indications between the results of CAN diagnosis support monitor and the results of the check sheet. Malfunctioning parts are found.

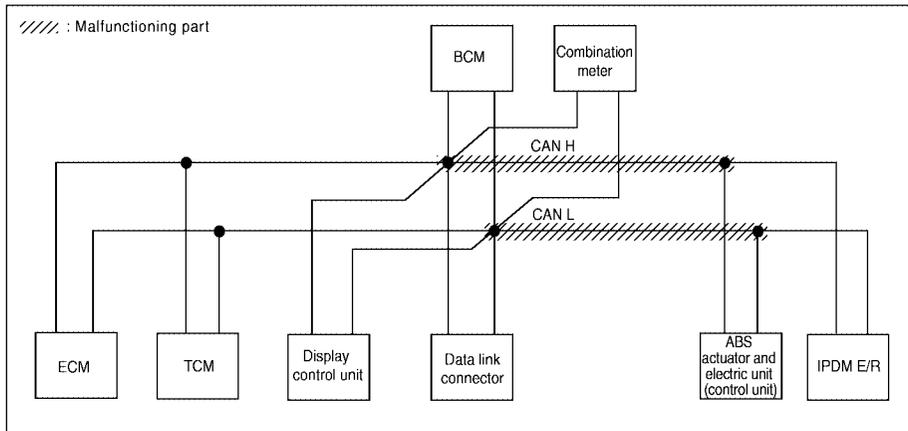
**Case 2**

Check harness between data link connector and ABS actuator and electric unit (control unit).

Check sheet results (example)

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS		
	Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R			
			ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	UNKWN				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

//// : Malfunctioning part



PKIC3672E

**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 [LAN-25, "CAN Communication Unit"](#).

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
BCM	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) ✓	—

SYSTEM ENGINE

SELF-DIAG RESULTS

DTC RESULTS                  TIME

CAN COMM CIRCUIT [U1001]                  1t

SYSTEM BCM

SELF-DIAG RESULTS

DTC RESULTS                  TIME

NO DTC IS DETECTED.  
FURTHER TESTING  
MAY BE REQUIRED.

SYSTEM ABS

SELF-DIAG RESULTS

DTC RESULTS                  TIME

NO DTC IS DETECTED.  
FURTHER TESTING  
MAY BE REQUIRED.

SYSTEM IPDM E/R

SELF-DIAG RESULTS

DTC RESULTS                  TIME

CAN COMM CIRCUIT [U1000]                  1

PKIC3673E

- 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.

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

Check sheet table

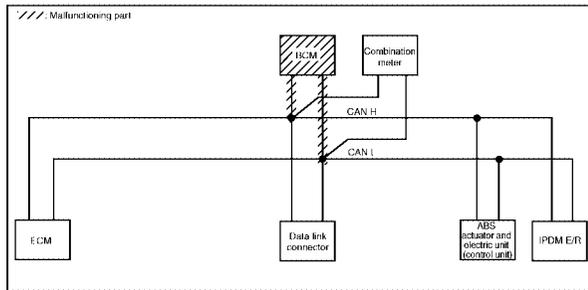
The arranged results of self-diagnosis

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
BCM	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)	—	

When the arranged results of self-diagnosis and check sheet results (example) are corresponding, possible causes can be selected.

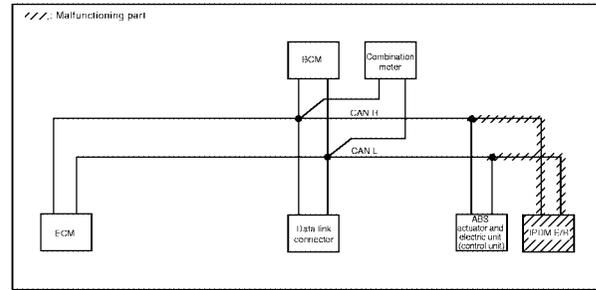
Case 4  
Check BCM circuit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
BCM	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 7  
Check IPDM E/R circuit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
BCM	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)	—	



PKIC3674E

**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.

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

UKS001YQ

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

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR																																																																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="3">ENGINE</th></tr> <tr><td></td><td style="text-align: center;">PRSNT</td><td style="text-align: center;">PAST</td></tr> <tr><td>TRANSMIT DIAG</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>VDC/TCS/ABS</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>METER/M&amp;A</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>BCM/SEC</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>ICC</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>HVAC</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>TCM</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>EPS</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>IPDM E/R</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>PRINT</td><td></td><td style="text-align: center;">Scroll Down</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT COPY</td></tr> </table>	ENGINE				PRSNT	PAST	TRANSMIT DIAG	OK	OK	VDC/TCS/ABS	OK	OK	METER/M&A	OK	OK	BCM/SEC	OK	OK	ICC	-	-	HVAC	-	-	TCM	OK	OK	EPS	-	-	IPDM E/R	OK	OK	PRINT		Scroll Down	MODE	BACK	LIGHT COPY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="3">ENGINE</th></tr> <tr><td></td><td style="text-align: center;">PRSNT</td><td style="text-align: center;">PAST</td></tr> <tr><td>METER/M&amp;A</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>BCM/SEC</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>ICC</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>HVAC</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>TCM</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>EPS</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>IPDM E/R</td><td style="text-align: center;">OK</td><td style="text-align: center;">OK</td></tr> <tr><td>e4WD</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>AWD/4WD</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td>PRINT</td><td></td><td style="text-align: center;">Scroll Up</td></tr> <tr><td>MODE</td><td>BACK</td><td>LIGHT COPY</td></tr> </table>	ENGINE				PRSNT	PAST	METER/M&A	OK	OK	BCM/SEC	OK	OK	ICC	-	-	HVAC	-	-	TCM	OK	OK	EPS	-	-	IPDM E/R	OK	OK	e4WD	-	-	AWD/4WD	-	-	PRINT		Scroll Up	MODE	BACK
ENGINE																																																																															
	PRSNT	PAST																																																																													
TRANSMIT DIAG	OK	OK																																																																													
VDC/TCS/ABS	OK	OK																																																																													
METER/M&A	OK	OK																																																																													
BCM/SEC	OK	OK																																																																													
ICC	-	-																																																																													
HVAC	-	-																																																																													
TCM	OK	OK																																																																													
EPS	-	-																																																																													
IPDM E/R	OK	OK																																																																													
PRINT		Scroll Down																																																																													
MODE	BACK	LIGHT COPY																																																																													
ENGINE																																																																															
	PRSNT	PAST																																																																													
METER/M&A	OK	OK																																																																													
BCM/SEC	OK	OK																																																																													
ICC	-	-																																																																													
HVAC	-	-																																																																													
TCM	OK	OK																																																																													
EPS	-	-																																																																													
IPDM E/R	OK	OK																																																																													
e4WD	-	-																																																																													
AWD/4WD	-	-																																																																													
PRINT		Scroll Up																																																																													
MODE	BACK	LIGHT COPY																																																																													
	PKIC4055E																																																																														

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past
ENGINE	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1 - 39/-
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	ICC	ICC is not diagnosed.	-	
	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.	-	

### 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

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TCM

### 4A/T models

(Example)

CAN DIAG SUPPORT MNTR			
A/T			
		PRSNT	
INITIAL DIAG		OK	
TRANSMIT DIAG		OK	
ECM		OK	
VDC/TCS/ABS		UNKWN	
METER/M&A		OK	
ICC/e4WD		UNKWN	
PRINT			
MODE	BACK	LIGHT	COPY

SKIB0628E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
A/T	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	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 DIAG SUPPORT MNTR			
TRANSMISSION			
		PRSNT	
INITIAL DIAG		OK	
TRANSMIT DIAG		OK	
ECM		OK	
VDC/TCS/ABS		OK	
METER/M&A		OK	
PRINT			
MODE	BACK	LIGHT	COPY

SKIB0592E

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

# TROUBLE DIAGNOSES WORK FLOW

[CAN]

## DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR BCM

(Example)

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

PKIB6074E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
BCM	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	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 ELECTRIC UNIT (CONTROL UNIT)

### ABS models

(Example)

CAN DIAG SUPPORT MNTR			
ABS			
		PRSNT	
INITIAL DIAG		OK	
TRANSMIT DIAG		OK	
ECM		OK	
PRINT			
MODE	BACK	LIGHT	COPY

PKIA8949E

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

### Display Results (Present)

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



# TROUBLE DIAGNOSES WORK FLOW

[CAN]

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

(Example)

CAN DIAG SUPPORT MONITOR			
CAN COMM	OK	0	<input type="button" value="Delete"/>
CAN_CIRC_1	OK	0	
CAN_CIRC_2	OK	0	
CAN_CIRC_3	OK	0	
CAN_CIRC_4	UNKWN	1	
CAN_CIRC_5	UNKWN	1	
CAN_CIRC_6	UNKWN	1	
CAN_CIRC_7	OK	0	
CAN_CIRC_8	OK	0	
CAN_CIRC_9	OK	0	

SKIB0645E

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

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

## CAN COMMUNICATION

PFP:23710

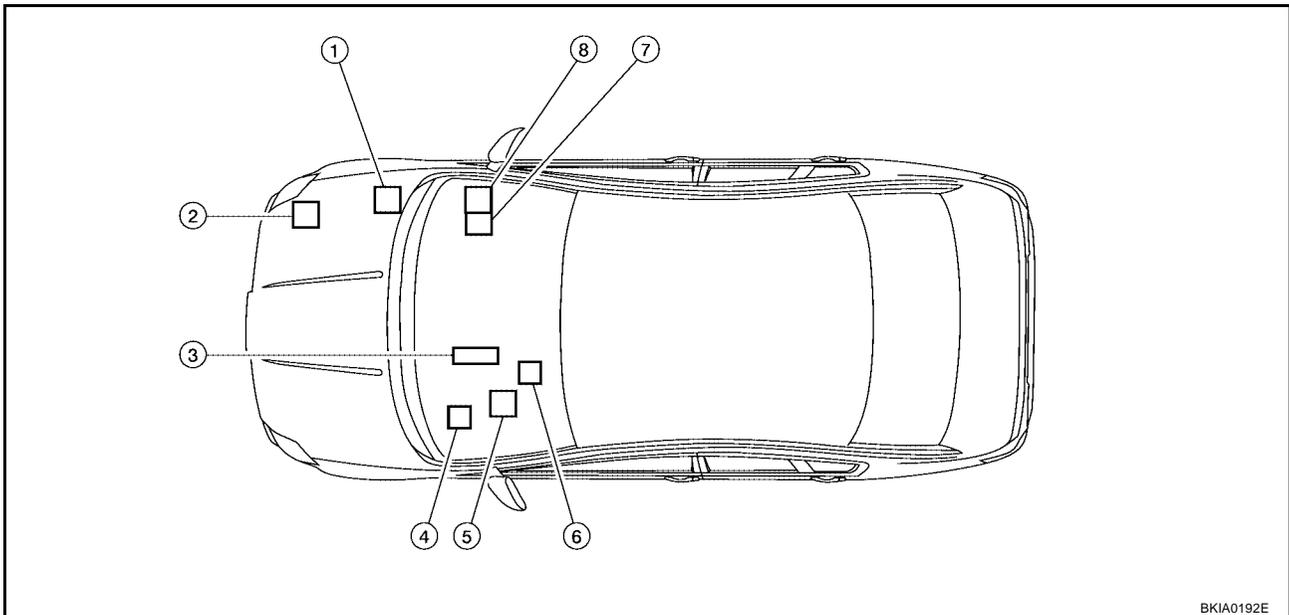
### System Description

UKS0010C

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



BKIA0192E

- |  |                          |   |
|--|--------------------------|---|
| 1. ABS actuator and electric unit (control unit) E125 (with ABS) | 2. IPDM E/R E121         | 3. Display control unit M95 (with NAVI) |
| 4. BCM M18   | 5. Combination meter M24 | 6. Data link connector M22              |
| 7. TCM F56 (with A/T)  | 8. ECM F54               |   |

# CAN COMMUNICATION

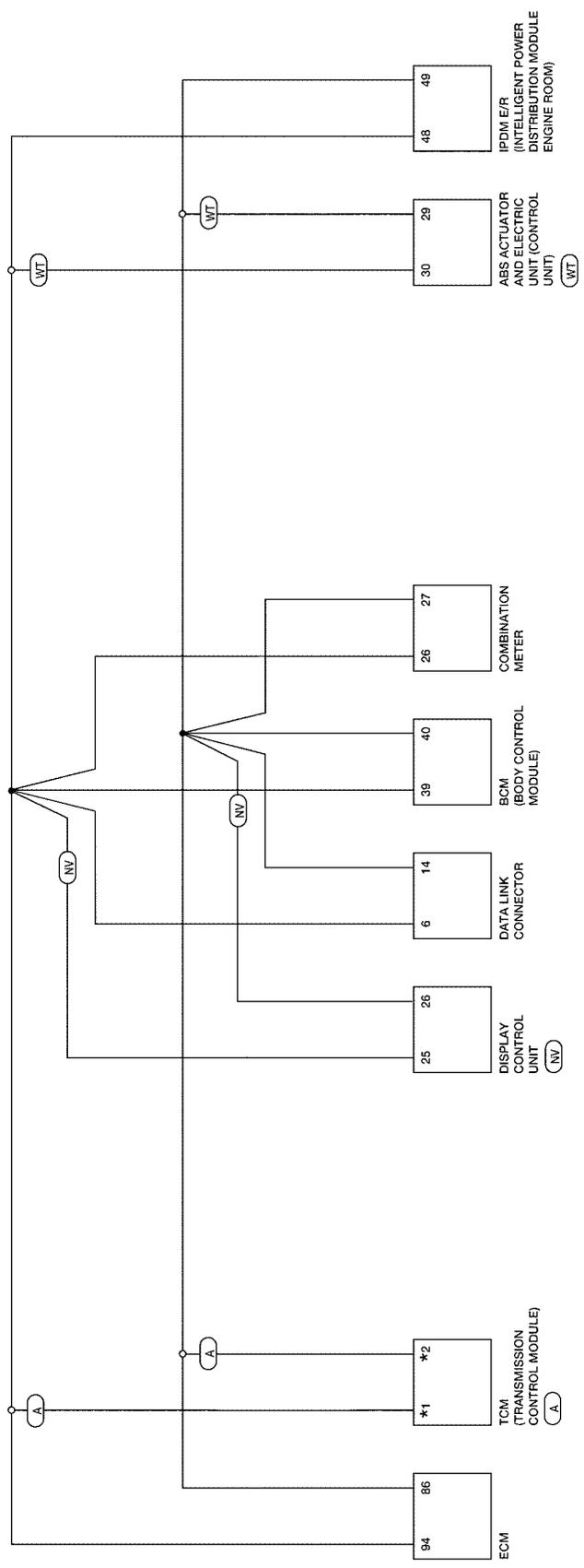
[CAN]

UKS004PI

## Schematic

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

- (A) : WITH A/T
- (A4) : WITH 4 A/T
- (A5) : WITH 5 A/T
- (A4) : WITH NAVI
- (A5) : WITH 5 A/T OR 6 M/T
- (\*)1
- (\*)2
- (NV)
- (WT)



BKWA0636E

# CAN COMMUNICATION

[CAN]

UKS004PJ

## Wiring Diagram — CAN —

### LAN-CAN-01

— ■ — : DATA LINE

⬡ A : WITH A/T

⬡ A4 : WITH 4 A/T

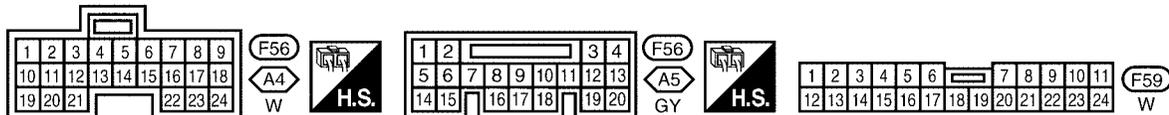
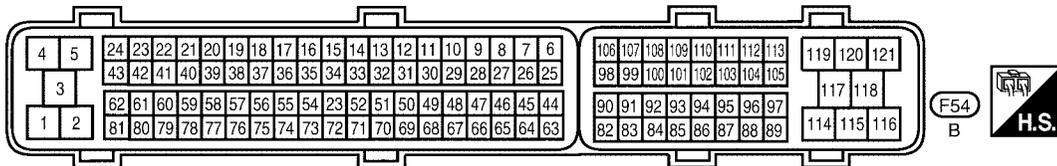
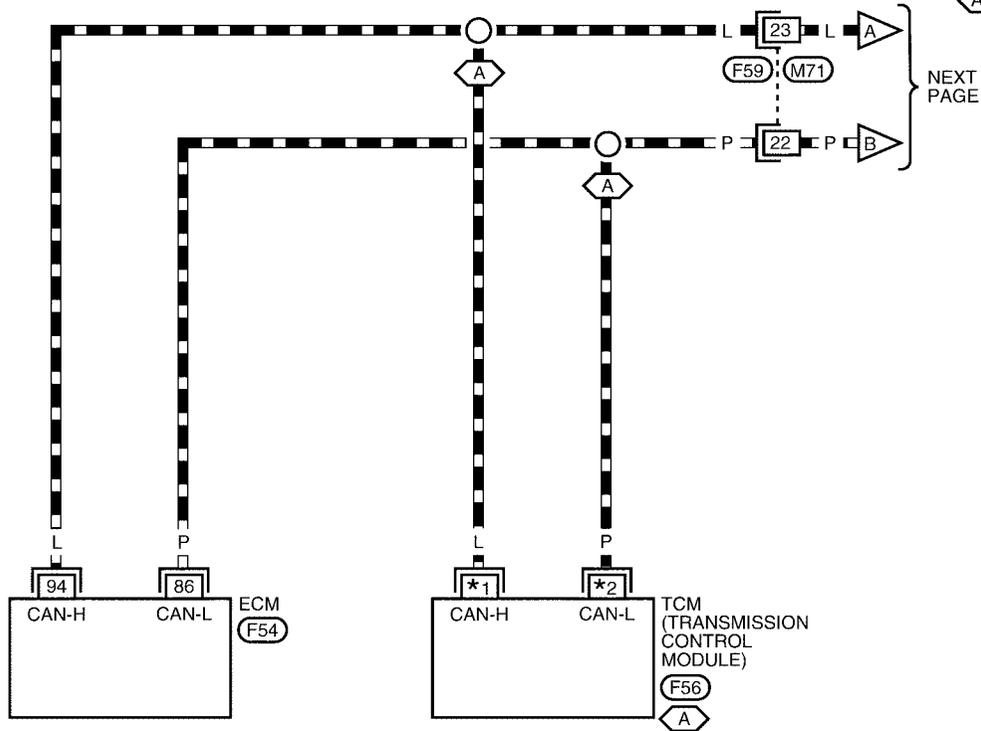
⬡ A5 : WITH 5 A/T

\*1 ⬡ A4 : 5

⬡ A5 : 3

\*2 ⬡ A4 : 6

⬡ A5 : 4

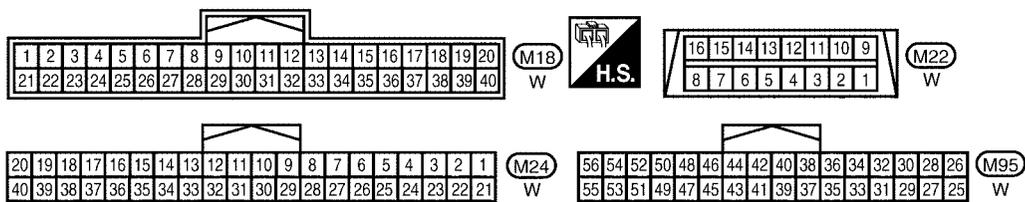
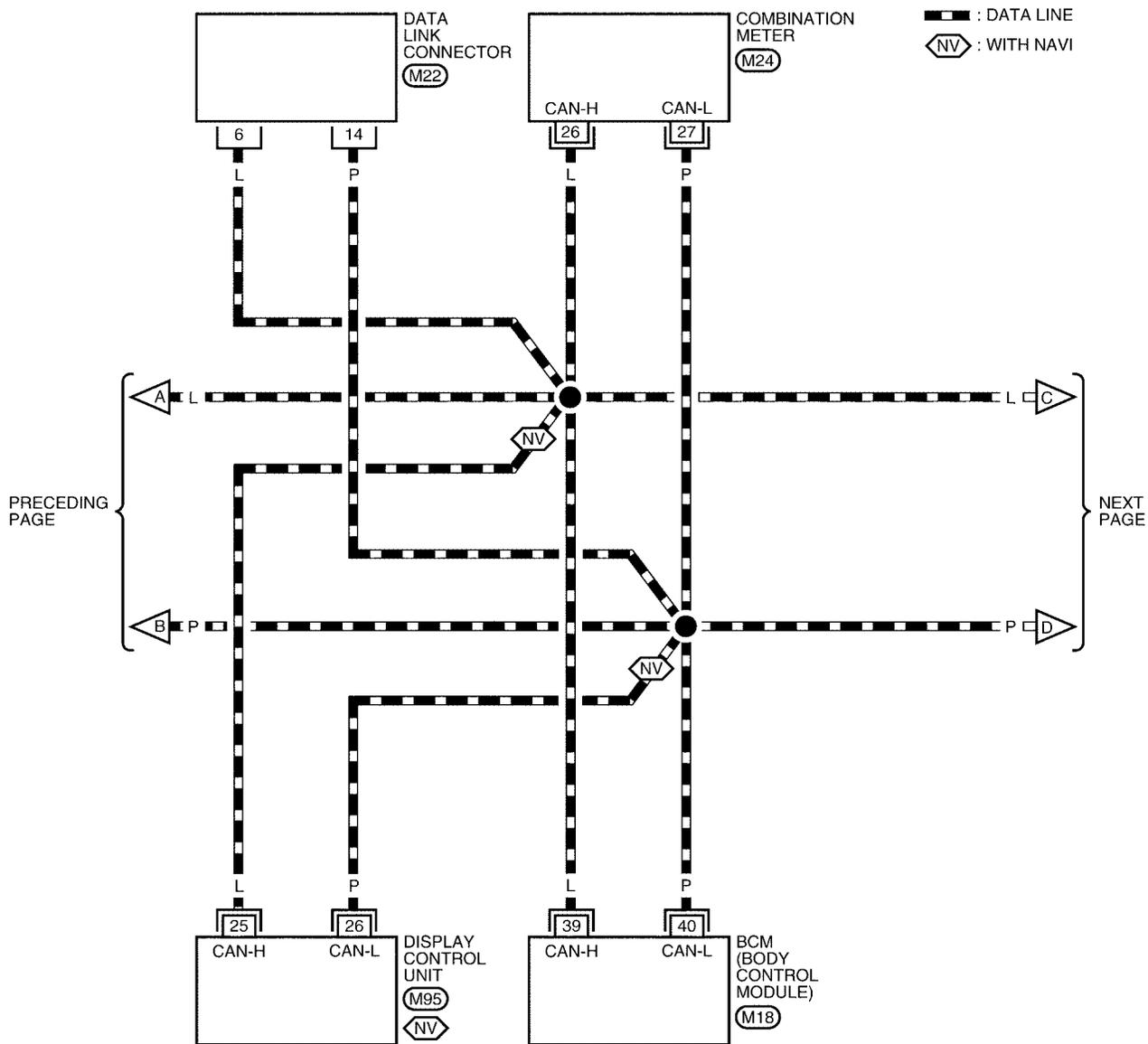


BKWA0637E

# CAN COMMUNICATION

[CAN]

## LAN-CAN-02



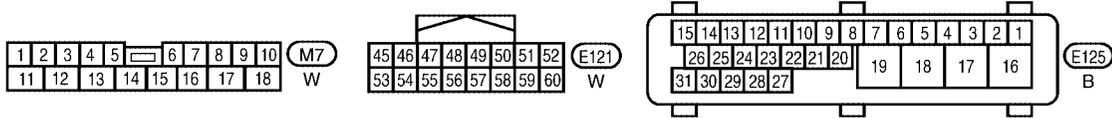
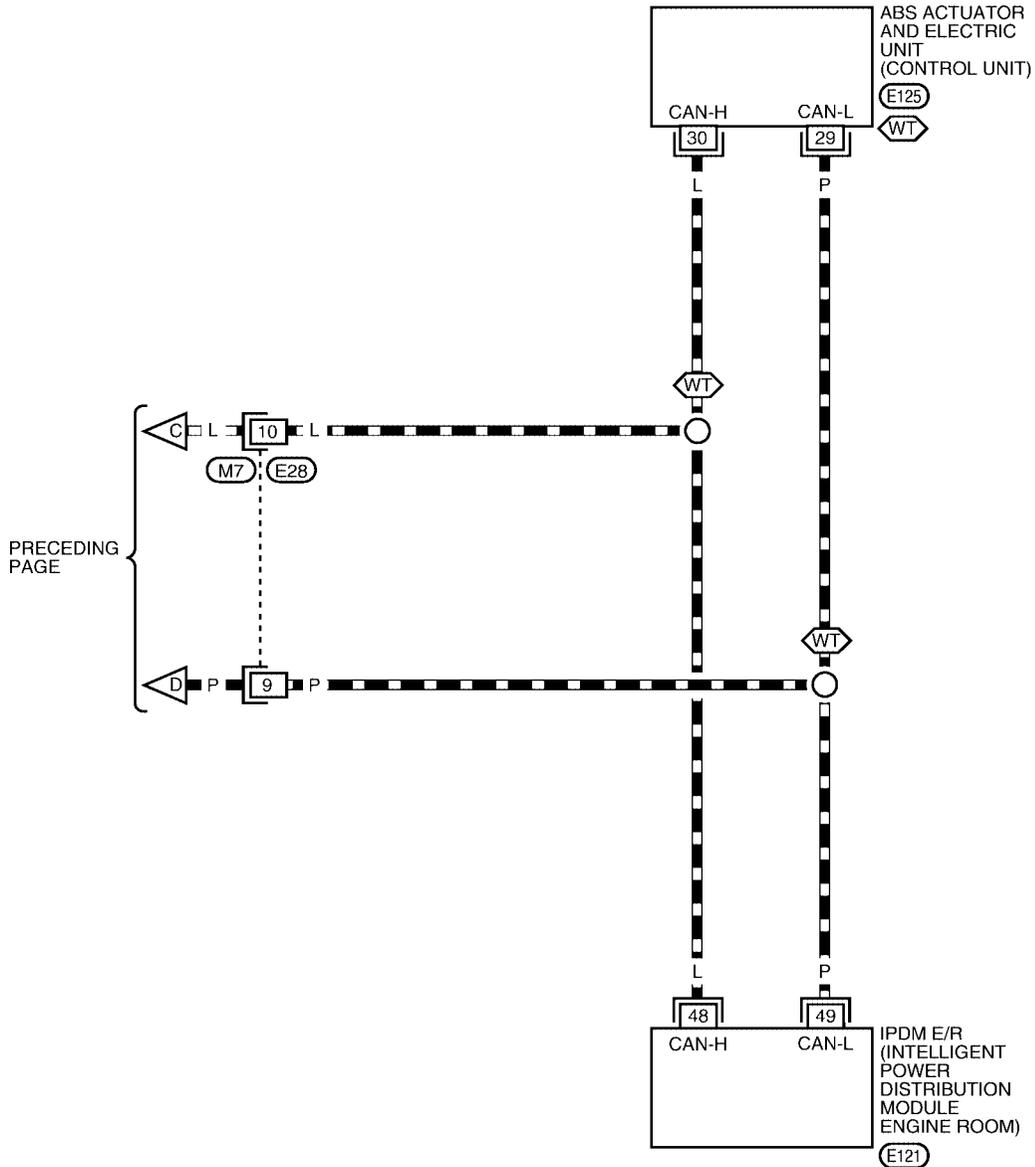
BKWA0638E

# CAN COMMUNICATION

[CAN]

## LAN-CAN-03

▬ : DATA LINE  
 ◊WT◊ : WITH 5 A/T OR 6 M/T



WKWA4950E

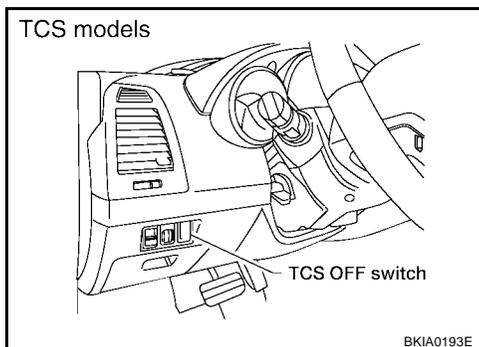
## CAN Communication Unit

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

Body type	Sedan												
Axle	2WD												
Engine	QR25DE					VQ35DE							
Transmission	5M/T		4A/T			5M/T		6M/T		5A/T			
Brake control	No ABS	ABS	No ABS	ABS	No ABS	ABS	ABS	TCS	ABS	TCS			
Navigation system					×			×			×		
CAN system type	1		2		3	1		4	5	6	7	8	9
CAN system trouble diagnosis	<a href="#">LAN-38</a>		<a href="#">LAN-45</a>		<a href="#">LAN-55</a>	<a href="#">LAN-38</a>		<a href="#">LAN-67</a>	<a href="#">LAN-76</a>	<a href="#">LAN-86</a>	<a href="#">LAN-96</a>	<a href="#">LAN-109</a>	<a href="#">LAN-122</a>

×: Applicable

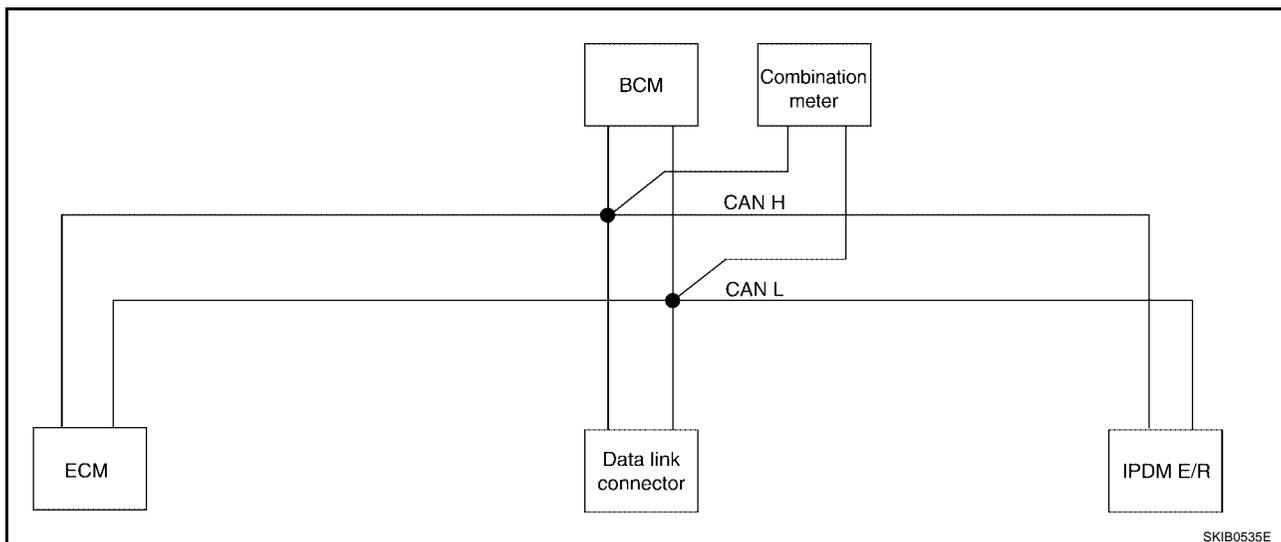
Vehicles equipped with TCS can be identified by the presence of a TCS OFF switch.



### TYPE1/TYPE4

#### System diagram

- Type1

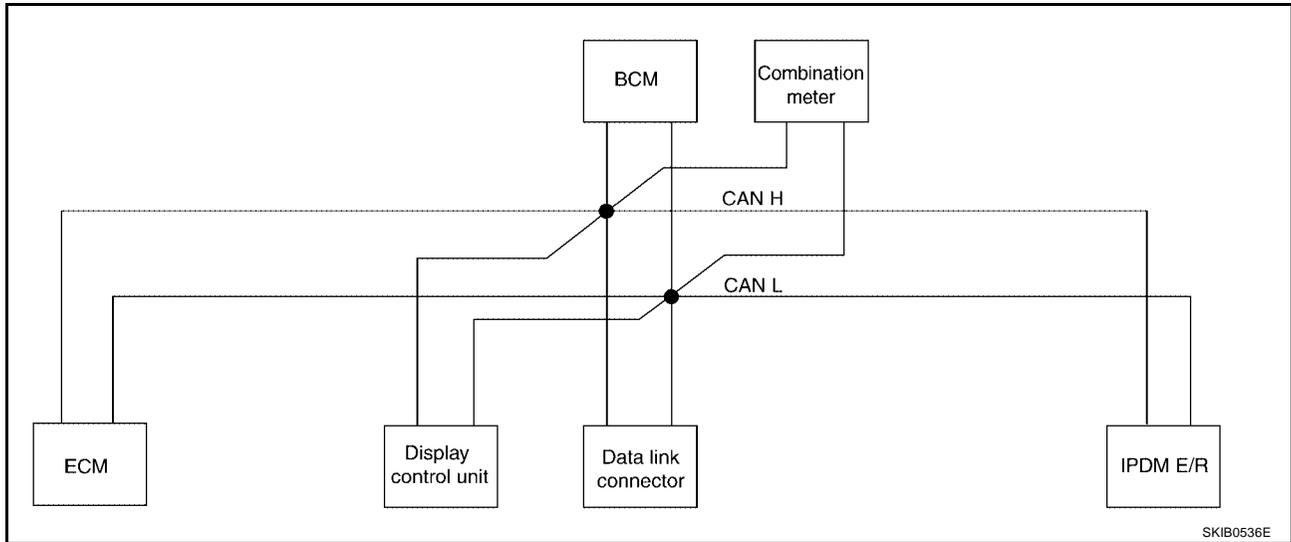


LAN

# CAN COMMUNICATION

[CAN]

● Type4



## Input/output signal chart

T: Transmit R: Receive

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

# CAN COMMUNICATION

[CAN]

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

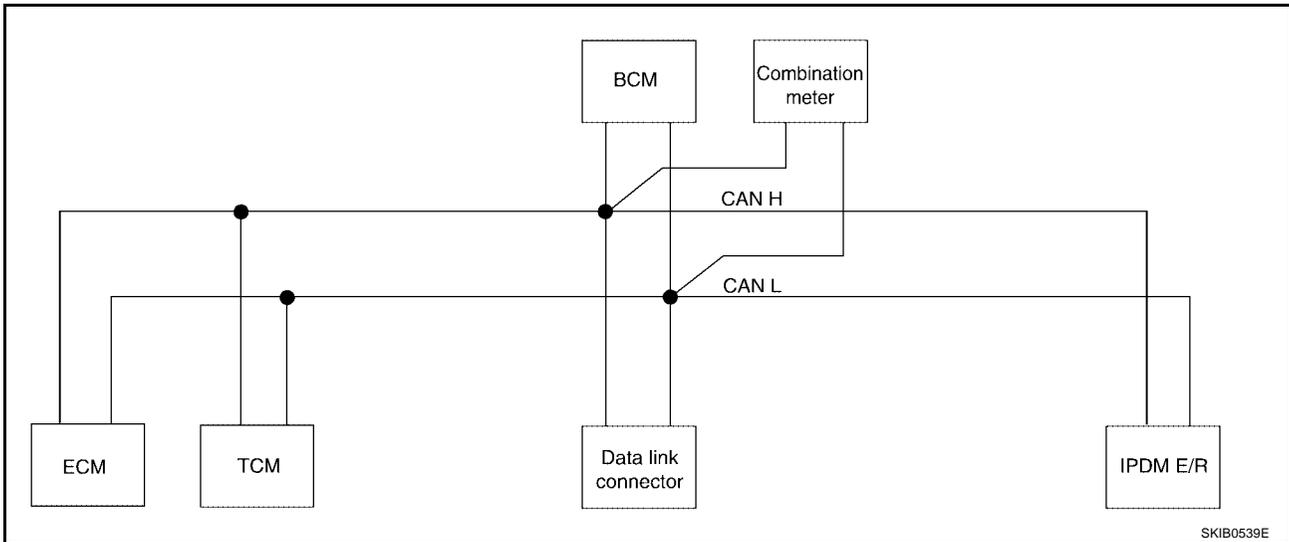
**NOTE:**

\*: Navigation system only

**TYPE2/TYPE3**

**System diagram**

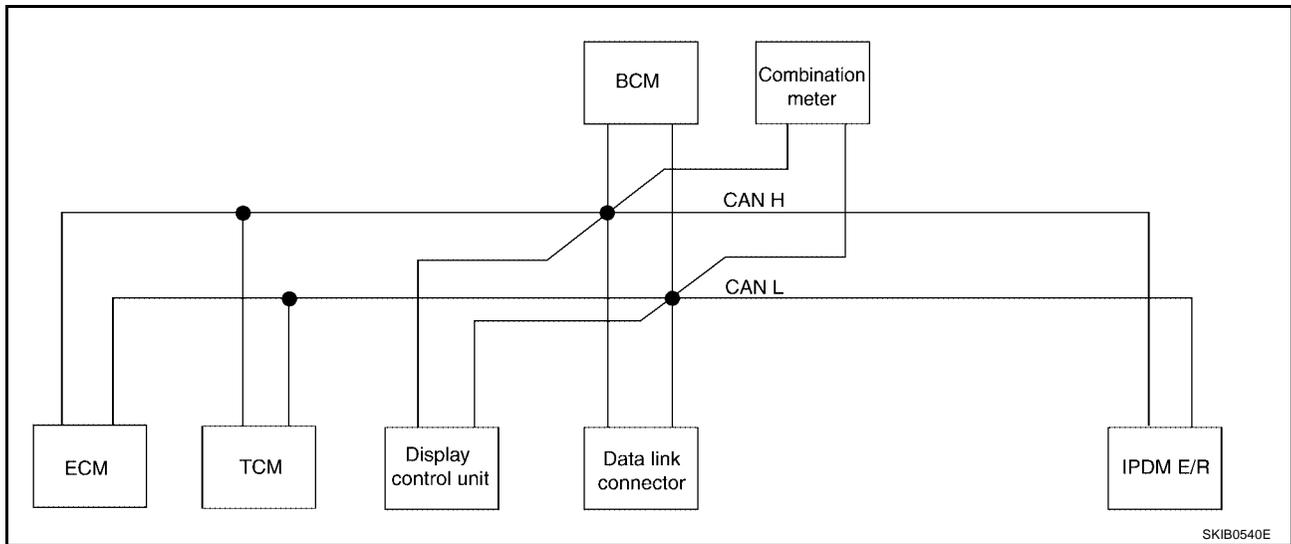
- TYPE2



# CAN COMMUNICATION

[CAN]

● TYPE3



## Input/output signal chart

T: Transmit R: Receive

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

# CAN COMMUNICATION

[CAN]

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

**NOTE:**

\*: Navigation system only

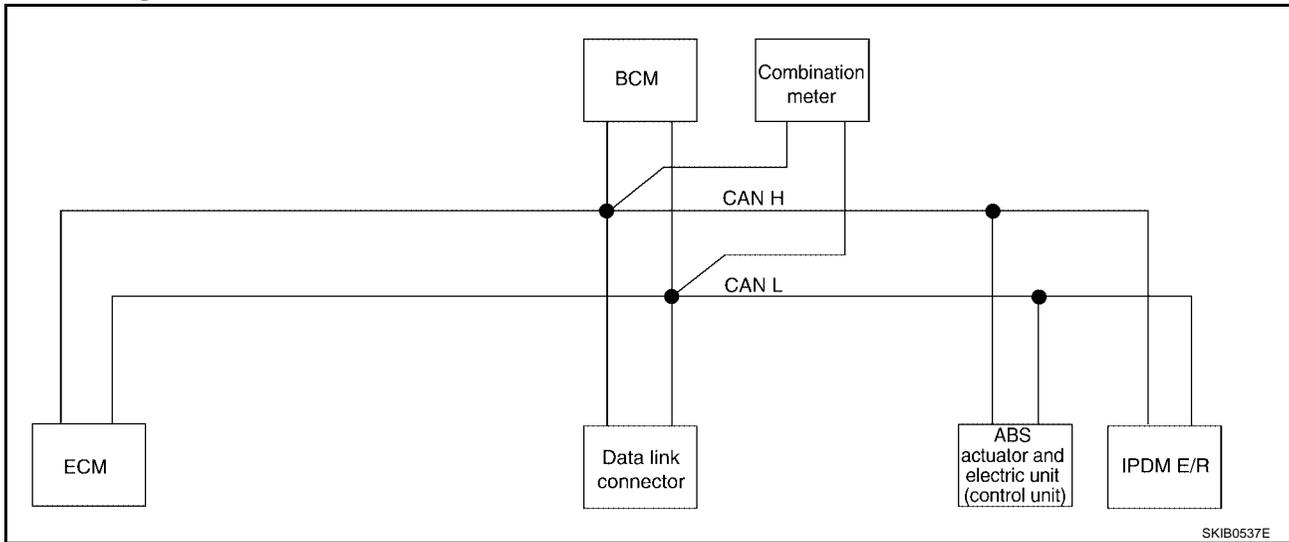
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

# CAN COMMUNICATION

[CAN]

## 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	T				R
ASCD CRUISE lamp signal	T		R		
ASCD SET lamp signal	T		R		
Cooling fan speed request signal	T				R
Engine coolant temperature signal	T		R		
Engine speed signal	T		R		
Fuel consumption monitor signal	T		R		
Malfunction indicator lamp signal	T		R		
A/C switch signal	R	T			
Blower fan switch signal	R	T			
Buzzer output signal		T	R		
Door switch signal		T	R		R
Front fog light request signal		T			R
Front wiper request signal		T			R
High beam request signal		T	R		R
Horn chirp signal		T			R
Low beam request signal		T			R

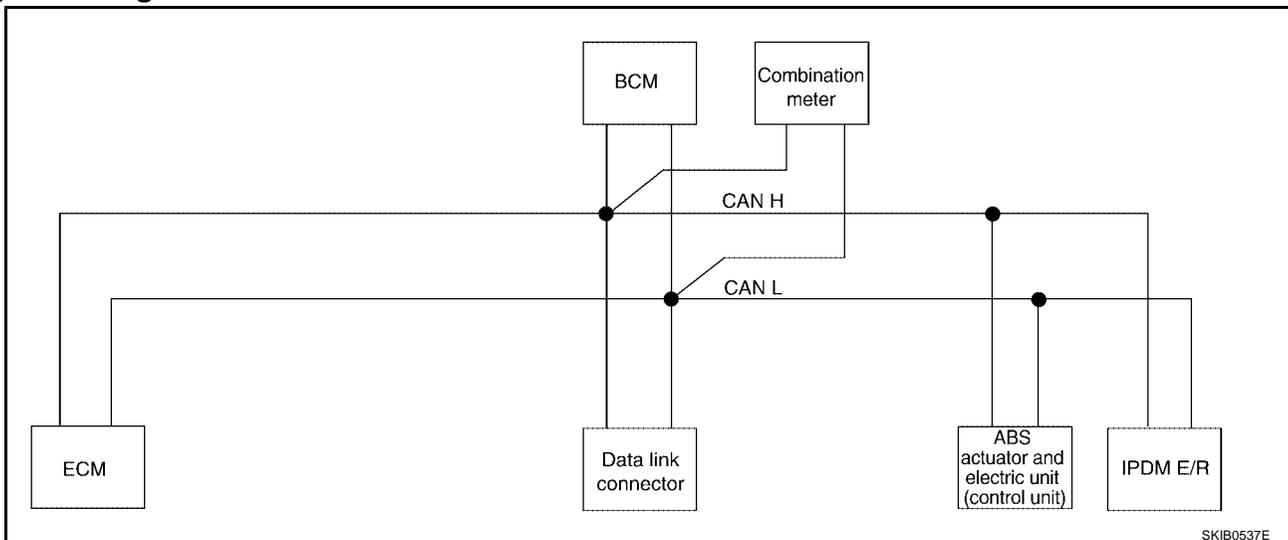
# CAN COMMUNICATION

[CAN]

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

## TYPE6

### System diagram



# CAN COMMUNICATION

[CAN]

## 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	T				R
ASCD CRUISE lamp signal	T		R		
ASCD SET lamp signal	T		R		
Cooling fan speed request signal	T				R
Engine coolant temperature signal	T		R		
Engine speed signal	T		R	R	
Fuel consumption monitor signal	T		R		
Malfunction indicator lamp signal	T		R		
A/C switch signal	R	T			
Blower fan switch signal	R	T			
Buzzer output signal		T	R		
Door switch signal		T	R		R
Front fog light request signal		T			R
Front wiper request signal		T			R
High beam request signal		T	R		R
Horn chirp signal		T			R
Low beam request signal		T			R
Position lights request signal		T	R		R
Rear window defogger switch signal		T			R
Sleep request1 signal		T	R		
Sleep request2 signal		T			R
Theft warning horn request signal		T			R
Trunk switch signal		T	R		
Turn indicator signal		T	R		
Vehicle speed signal			R	T	
	R	R	T		
Fuel level sensor signal	R		T		
Seat belt buckle switch signal		R	T		
High beam status signal	R				T
Hood switch signal		R			T
Low beam status signal	R				T
Oil pressure switch signal			R		T
Rear window defogger control signal	R	R			T

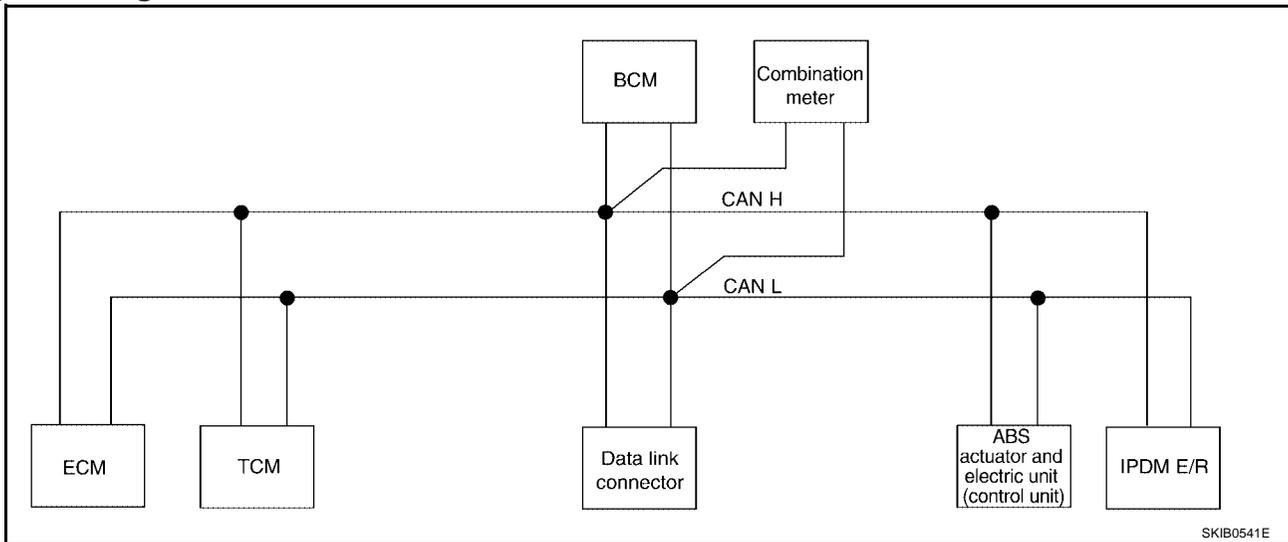
# CAN COMMUNICATION

[CAN]

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

## TYPE7

### System diagram



### Input/output signal chart

T: Transmit R: Receive

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

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN

L  
M

# CAN COMMUNICATION

[CAN]

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

# CAN COMMUNICATION

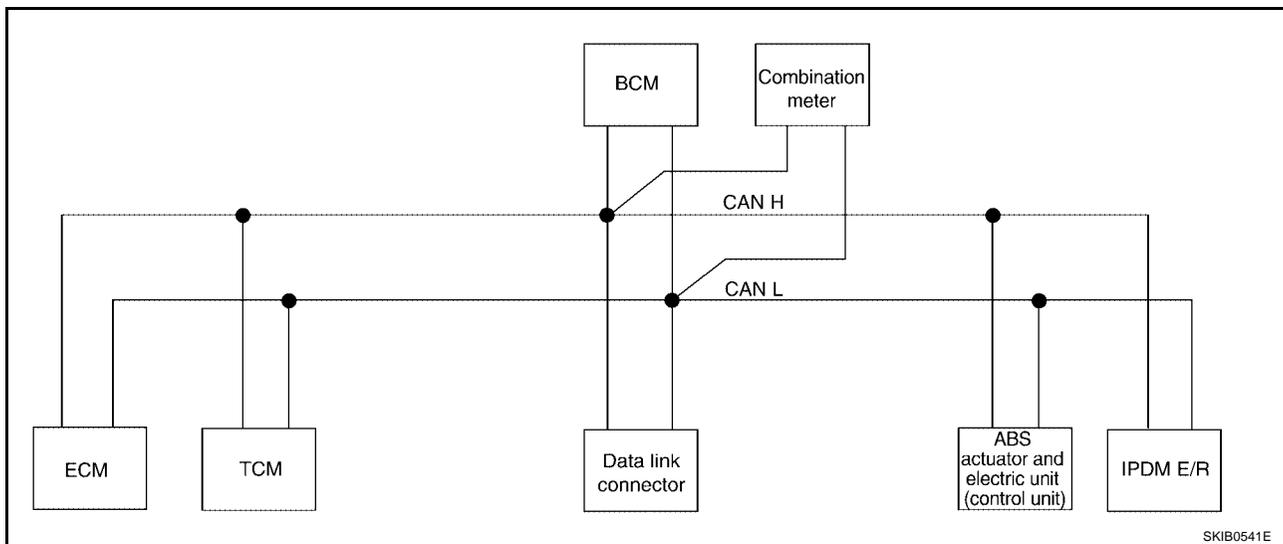
[CAN]

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

## TYPE8/TYPE9

### System diagram

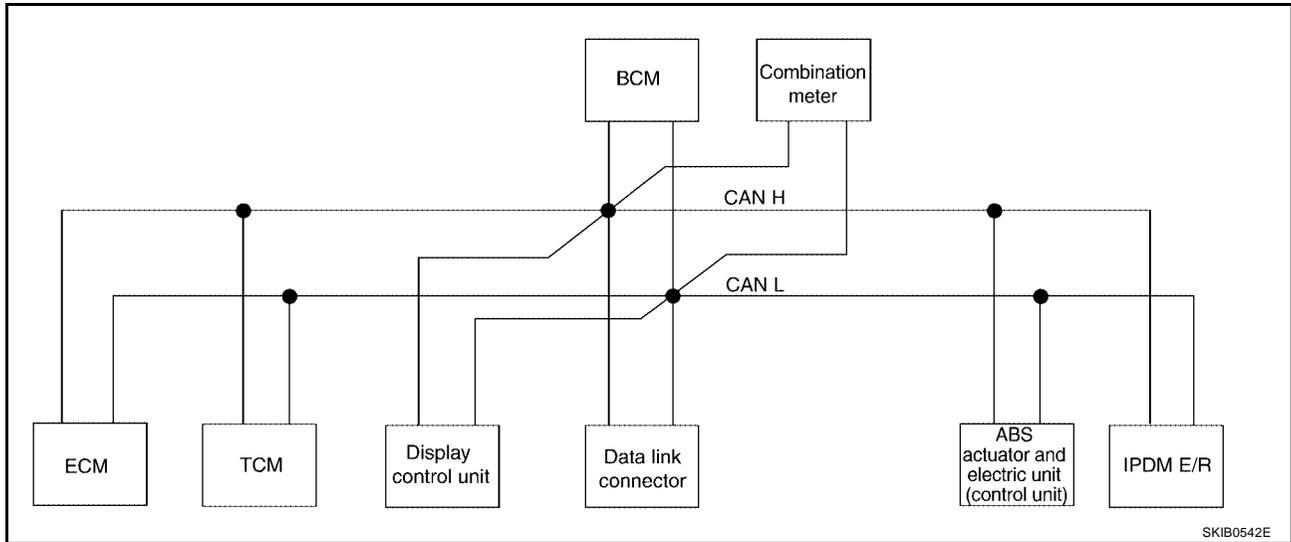
- TYPE8



# CAN COMMUNICATION

[CAN]

● TYPE9



## Input/output signal chart

T: Transmit 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	T						R
Accelerator pedal position signal	T					R	
ASCD CRUISE lamp signal	T				R		
ASCD OD cancel request signal	T	R					
ASCD operation signal	T	R					
ASCD SET lamp signal	T				R		
Cooling fan speed request signal	T						R
Electric throttle control signal	T	R					
Engine coolant temperature signal	T	R			R		
Engine speed signal	T	R	R		R	R	
Fuel consumption monitor signal	T		R		R		
Malfunction indicator lamp signal	T				R		
A/T position indicator signal		T			R	R	
A/T self-diagnosis signal	R	T					
A/T warning lamp signal		T			R		
Manual mode indicator signal		T			R		
Output shaft revolution signal	R	T					

# CAN COMMUNICATION

[CAN]

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

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

**NOTE:**

\*: Navigation system only

---

## CAN SYSTEM (TYPE 1)

PFP:23710

### Component Parts and Harness Connector Location

UKS001YE

Refer to [LAN-20, "Component Parts and Harness Connector Location"](#) .

### Schematic

UKS001YF

Refer to [LAN-21, "Schematic"](#) .

### Wiring Diagram — CAN —

UKS001YG

Refer to [LAN-22, "Wiring Diagram — CAN —"](#) .

# CAN SYSTEM (TYPE 1)

[CAN]

UKS001RW

## CHECK SHEET

**NOTE:**

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

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (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)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

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  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIC3566E

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

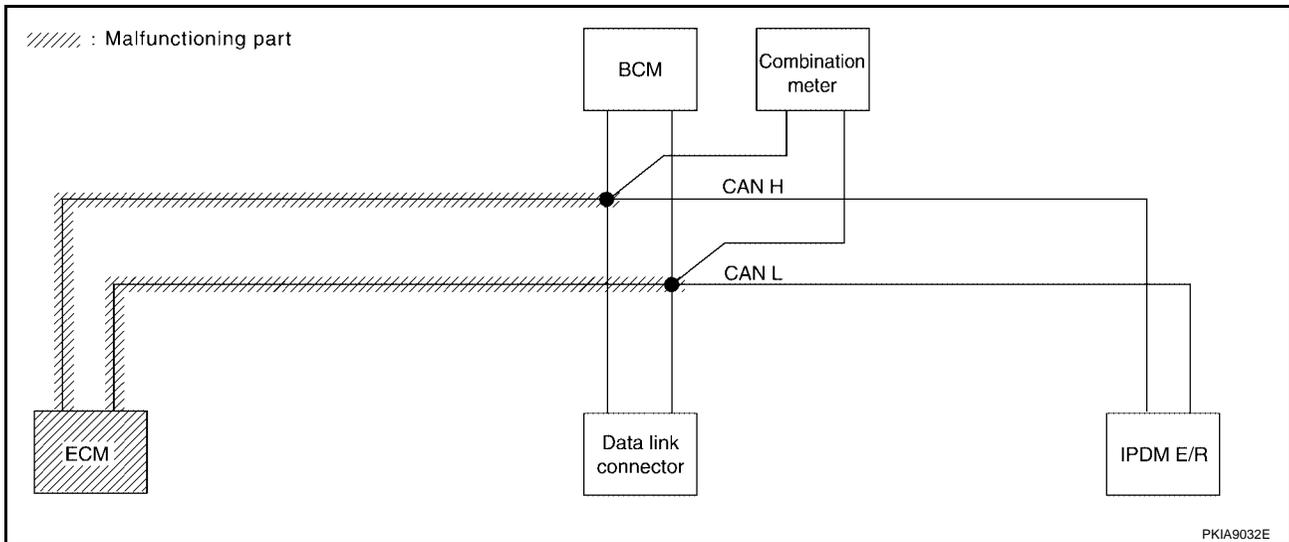
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check ECM circuit. Refer to [LAN-138, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKW <sup>N</sup>	—	UNKW <sup>N</sup>	UNKW <sup>N</sup>	UNKW <sup>N</sup>	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
BCM	No indication	NG	UNKW <sup>N</sup>	UNKW <sup>N</sup>	—	UNKW <sup>N</sup>	UNKW <sup>N</sup>	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW <sup>N</sup>	UNKW <sup>N</sup>	UNKW <sup>N</sup>	—	—	CAN COMM CIRCUIT (U000)	—

PKIC3567E



# CAN SYSTEM (TYPE 1)

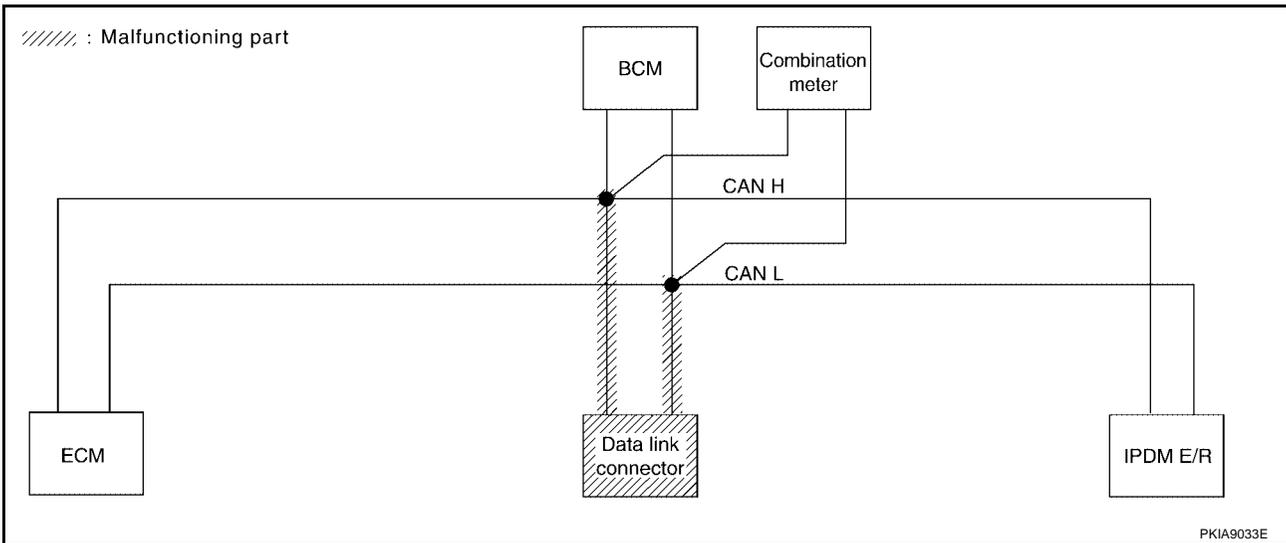
[CAN]

## Case 2

Check data link connector circuit. Refer to [LAN-140, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (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)	—

PKIC3568E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

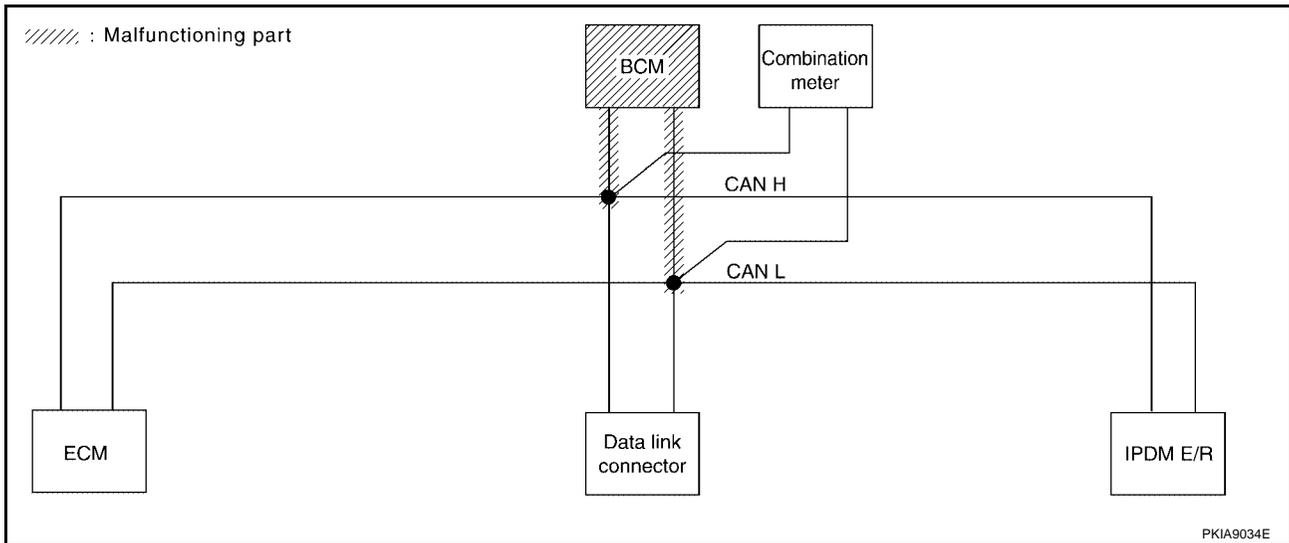
LAN

### Case 3

Check BCM circuit. Refer to [LAN-140, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (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) ✓	—

PKIC3569E



# CAN SYSTEM (TYPE 1)

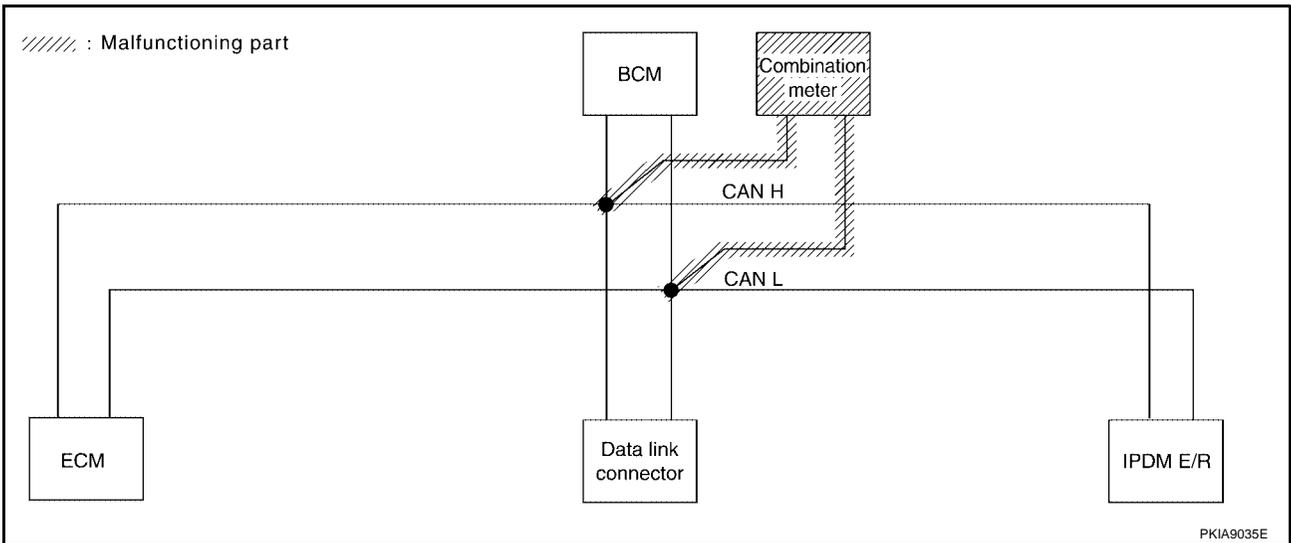
[CAN]

## Case 4

Check combination meter circuit. Refer to [LAN-141, "Combination Meter Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (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)	—

PKIC3570E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

# CAN SYSTEM (TYPE 1)

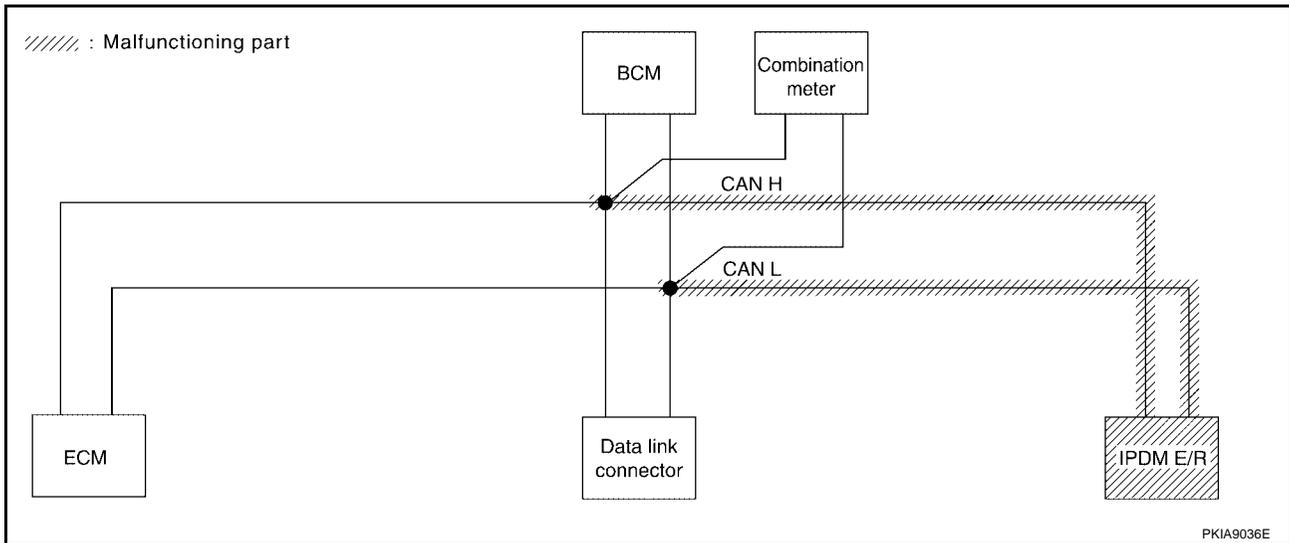
[CAN]

## Case 5

Check IPDM E/R circuit. Refer to [LAN-142, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (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)	—

PKIC3571E



## Case 6

Check CAN communication circuit. Refer to [LAN-143, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (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)	—

PKIC3572E

# CAN SYSTEM (TYPE 2)

[CAN]

---

## CAN SYSTEM (TYPE 2)

PF:23710

### Component Parts and Harness Connector Location

UKS001Y3

A

Refer to [LAN-20, "Component Parts and Harness Connector Location"](#) .

### Schematic

UKS001Y4

B

Refer to [LAN-21, "Schematic"](#) .

### Wiring Diagram — CAN —

UKS001Y5

C

Refer to [LAN-22, "Wiring Diagram — CAN —"](#) .

D

E

F

G

H

I

J

LAN

L

M

# CAN SYSTEM (TYPE 2)

[CAN]

UKS001RV

## CHECK SHEET

**NOTE:**

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

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  
ENGINE  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
A/T  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIC3573E

# CAN SYSTEM (TYPE 2)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

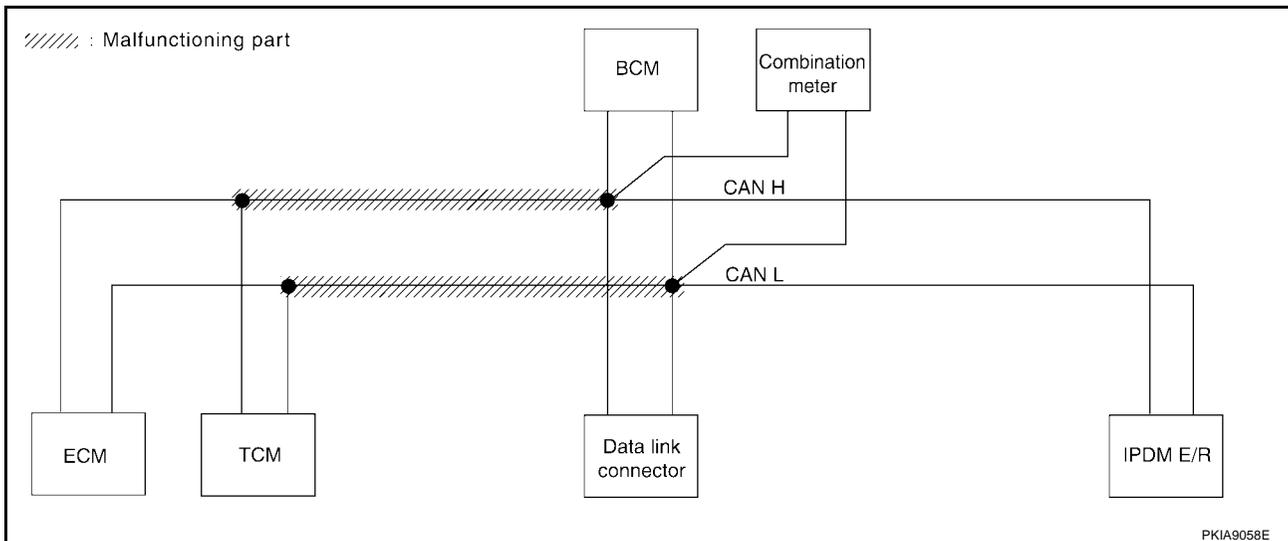
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-136, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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	—	—	—	—	—	—
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC3574E



# CAN SYSTEM (TYPE 2)

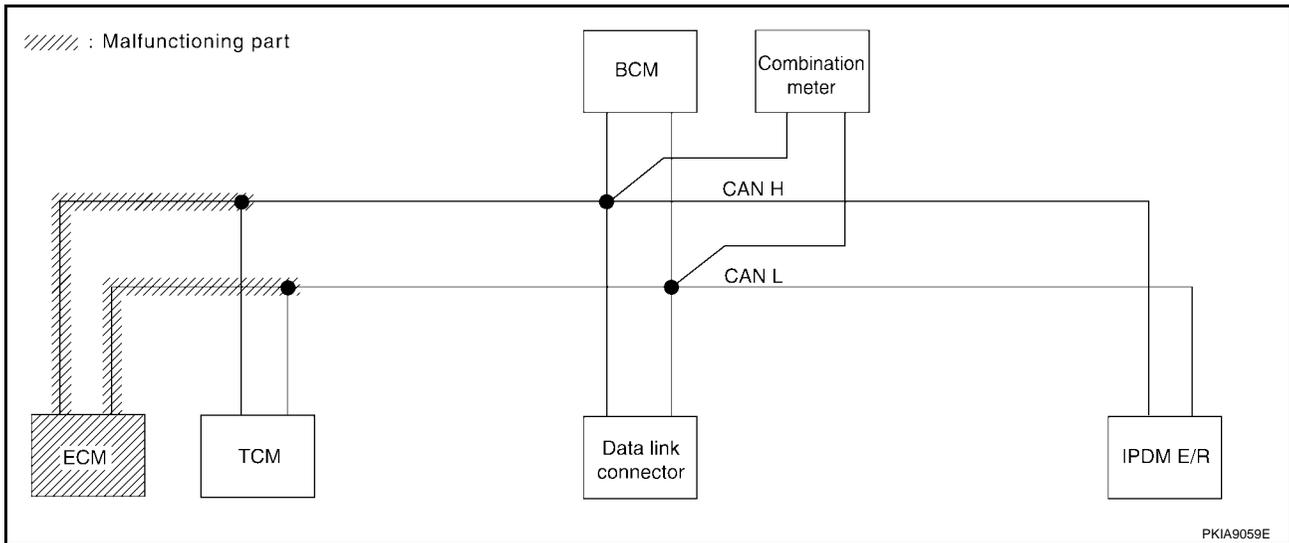
[CAN]

## Case 2

Check ECM circuit. Refer to [LAN-138, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U100) ✓	CAN COMM CIRCUIT (U101) ✓
A/T	—	NG	UNKWN	—	—	—	UNKWN	—	—	—
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	CAN COMM CIRCUIT (U100) ✓	—

PKIC3575E



# CAN SYSTEM (TYPE 2)

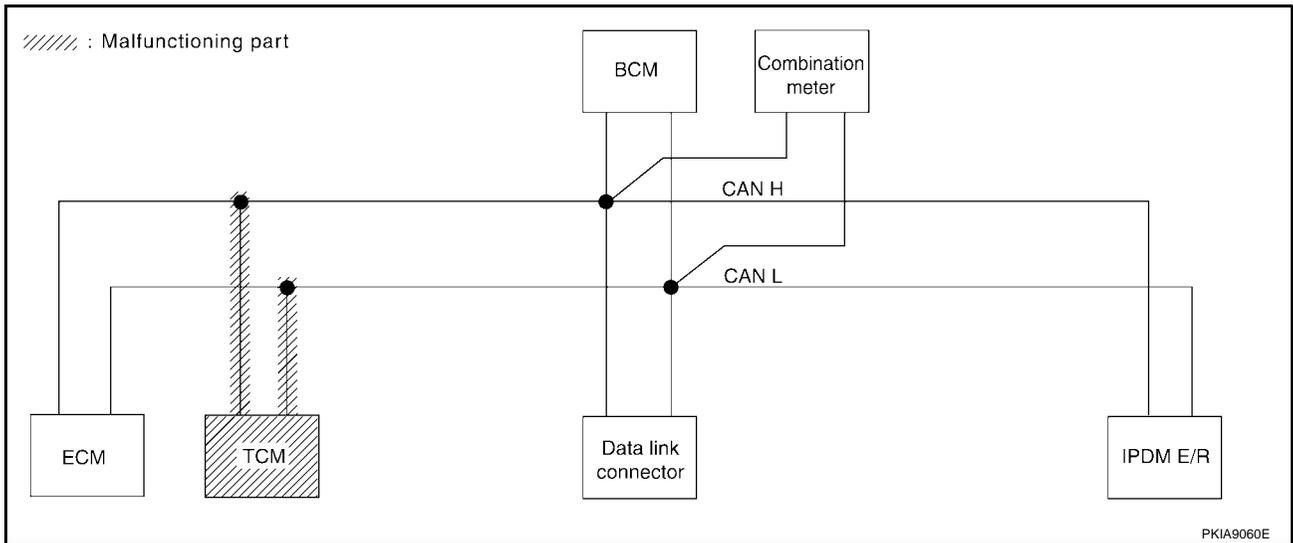
[CAN]

## Case 3

Check TCM circuit. Refer to [LAN-139, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
A/T	—	NG	—	—	—	—	—	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3576E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

# CAN SYSTEM (TYPE 2)

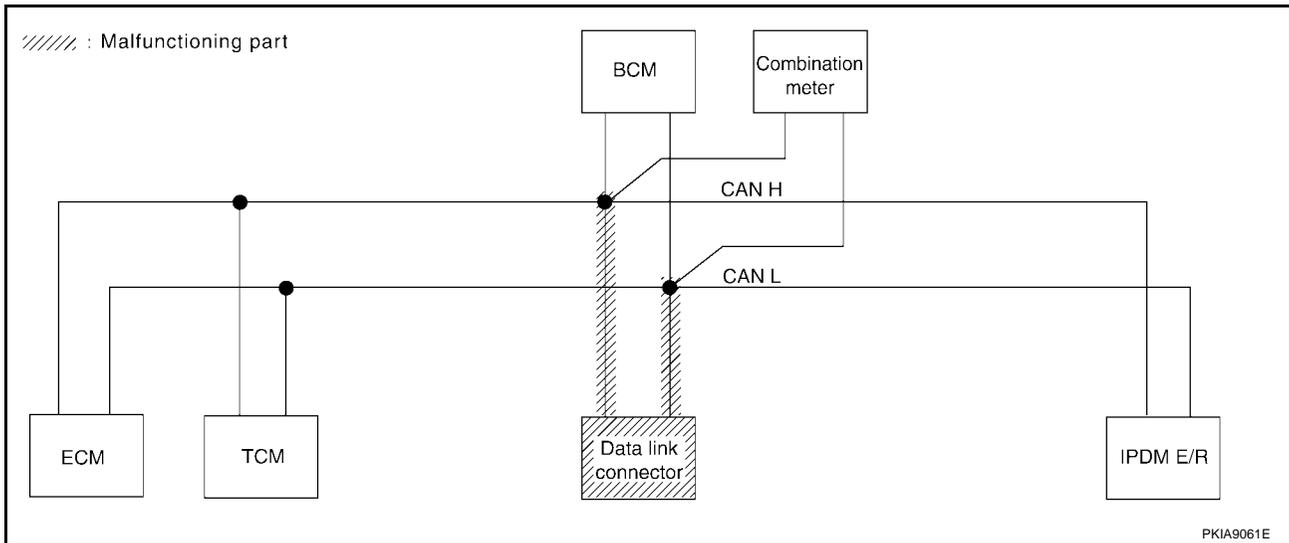
[CAN]

## Case 4

Check data link connector circuit. Refer to [LAN-140, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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)	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3577E



# CAN SYSTEM (TYPE 2)

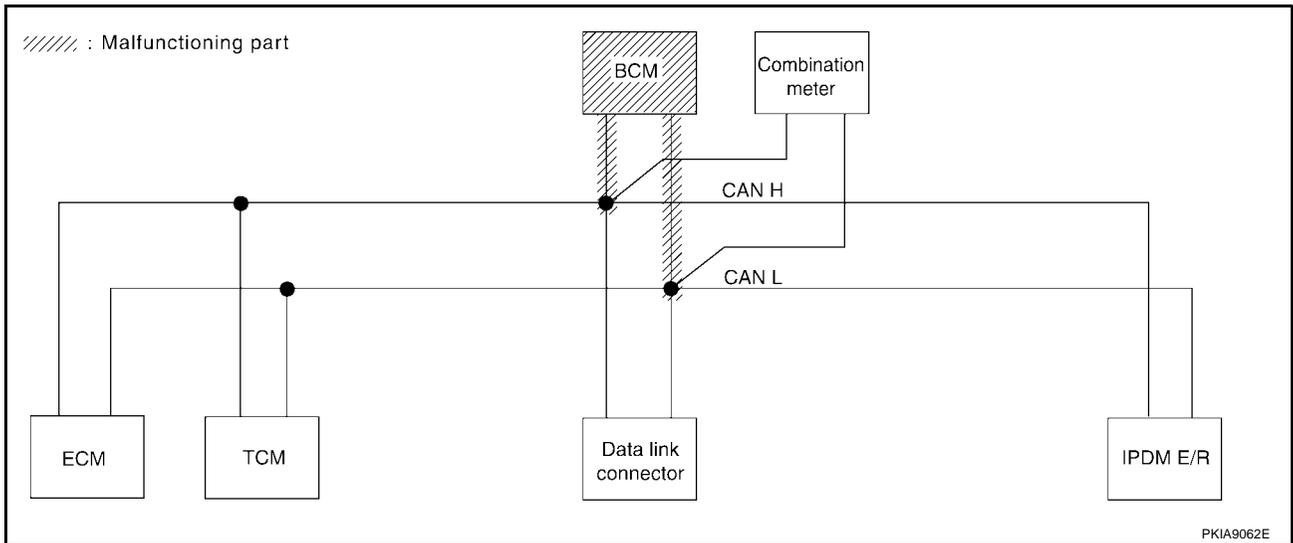
[CAN]

## Case 5

Check BCM circuit. Refer to [LAN-140, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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)	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3578E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

# CAN SYSTEM (TYPE 2)

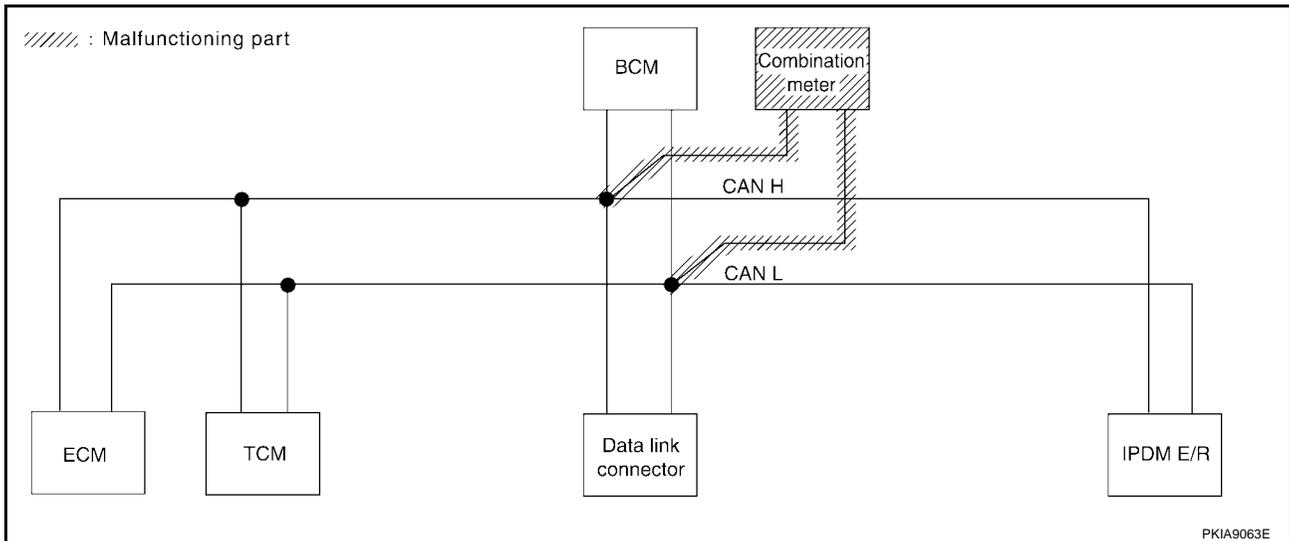
[CAN]

## Case 6

Check combination meter circuit. Refer to [LAN-141, "Combination Meter Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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	—	—	—	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3579E



# CAN SYSTEM (TYPE 2)

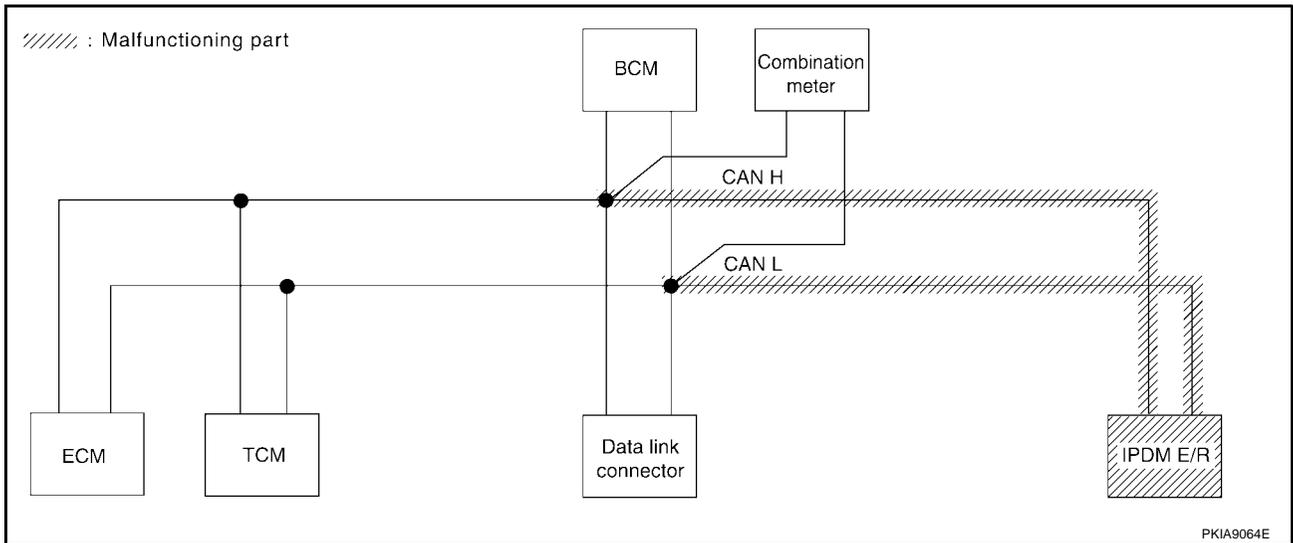
[CAN]

## Case 7

Check IPDM E/R circuit. Refer to [LAN-142, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC3580E



## Case 8

Check CAN communication circuit. Refer to [LAN-143, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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	—	—	—	—	—	—	—	—	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC3581E

# CAN SYSTEM (TYPE 2)

[CAN]

## Case 9

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-144, "IPDM E/R Ignition Relay Circuit Check"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U100) <input checked="" type="checkbox"/>	CAN COMM CIRCUIT (U101) <input checked="" type="checkbox"/>
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3582E

# CAN SYSTEM (TYPE 3)

[CAN]

---

## CAN SYSTEM (TYPE 3)

PF:23710

### Component Parts and Harness Connector Location

UKS001XR

A

Refer to [LAN-20, "Component Parts and Harness Connector Location"](#) .

### Schematic

UKS001XS

B

Refer to [LAN-21, "Schematic"](#) .

### Wiring Diagram — CAN —

UKS001XT

C

Refer to [LAN-22, "Wiring Diagram — CAN —"](#) .

D

E

F

G

H

I

J

LAN

L

M

# CAN SYSTEM (TYPE 3)

[CAN]

UKS001RU

## CHECK SHEET

**NOTE:**

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

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.

Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	—
CAN CIRC 2	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

PKIC3583E

# CAN SYSTEM (TYPE 3)

[CAN]



A

B

C

D

E

F

G

H

I

J

LAN

L

M

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

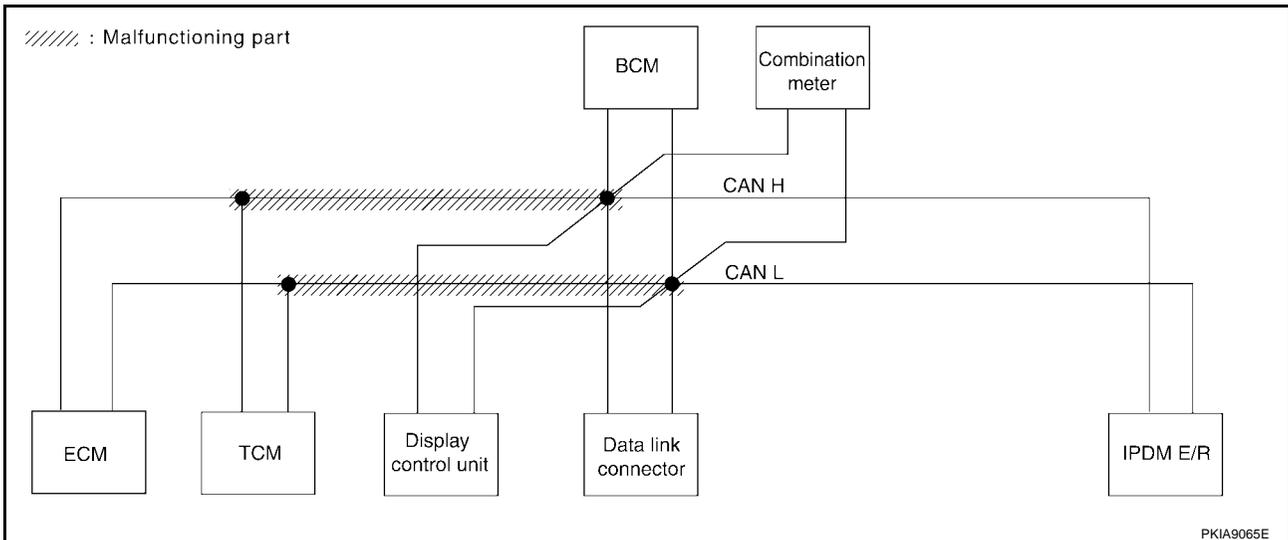
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-136, "Inspection Between TCM and Data Link Connector Circuit"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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	—	—	—	—	—	—
Display control unit	—	NG	UNKWN	✓UNKWN	—	UNKWN	UNKWN	UNKWN	—	—
BCM	No indication	NG	UNKWN	✓UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	✓UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC3584E



# CAN SYSTEM (TYPE 3)

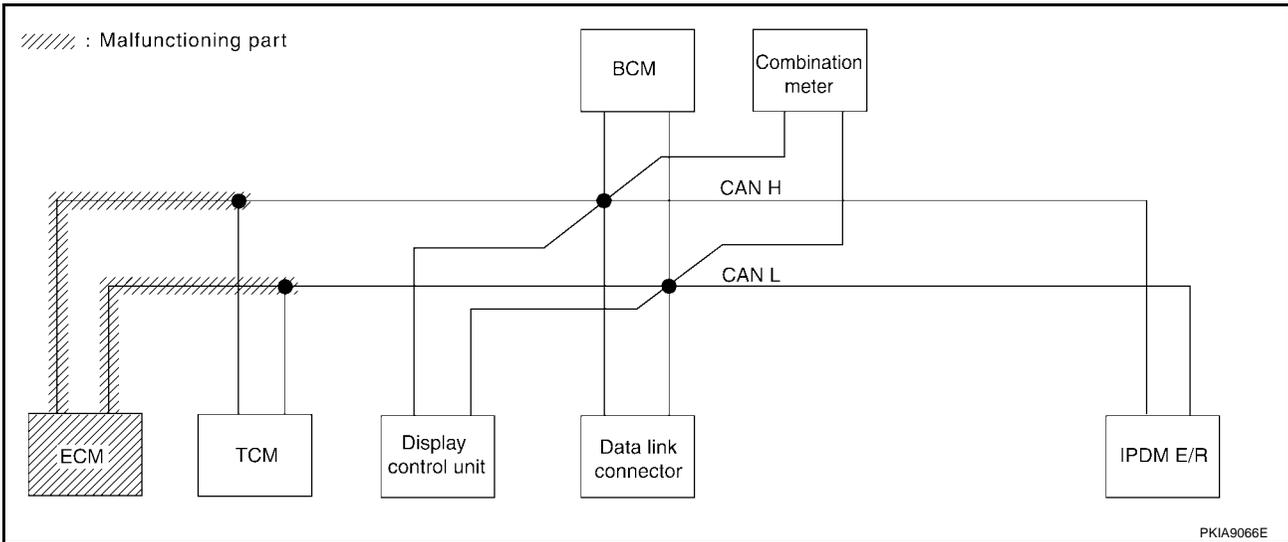
[CAN]

## Case 2

Check ECM circuit. Refer to [LAN-138, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U100) ✓	CAN COMM CIRCUIT (U101) ✓
A/T	—	NG	UNKWN	—	—	—	UNKWN	—	—	—
Display control unit	—	NG	UNKWN	UNKWN ✓	—	UNKWN	UNKWN	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	CAN COMM CIRCUIT (U100) ✓	—

PKIC3585E



# CAN SYSTEM (TYPE 3)

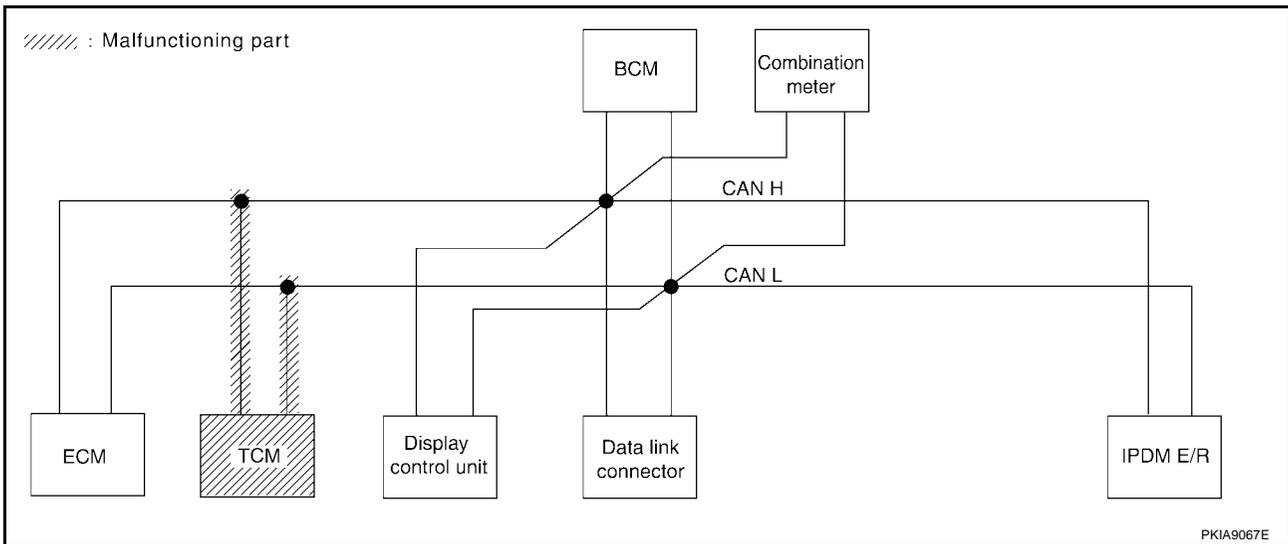
[CAN]

## Case 3

Check TCM circuit. Refer to [LAN-139, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U100) ✓	CAN COMM CIRCUIT (U101) ✓
A/T	—	NG	—	—	—	—	—	—	—	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3586E



# CAN SYSTEM (TYPE 3)

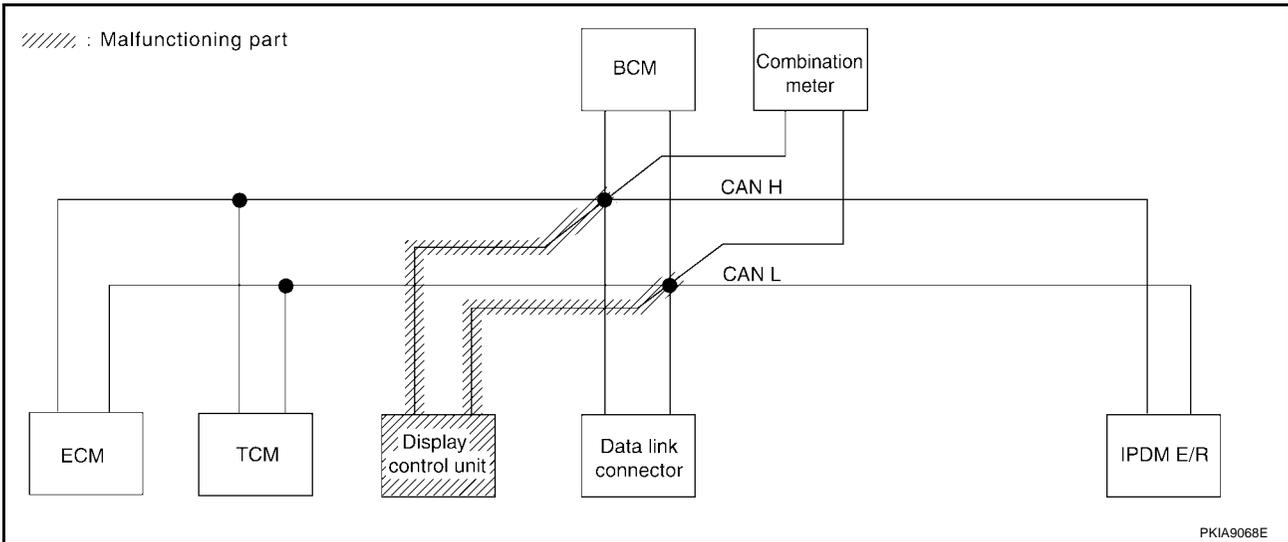
[CAN]

## Case 4

Check display control unit circuit. Refer to [LAN-139, "Display Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3587E



# CAN SYSTEM (TYPE 3)

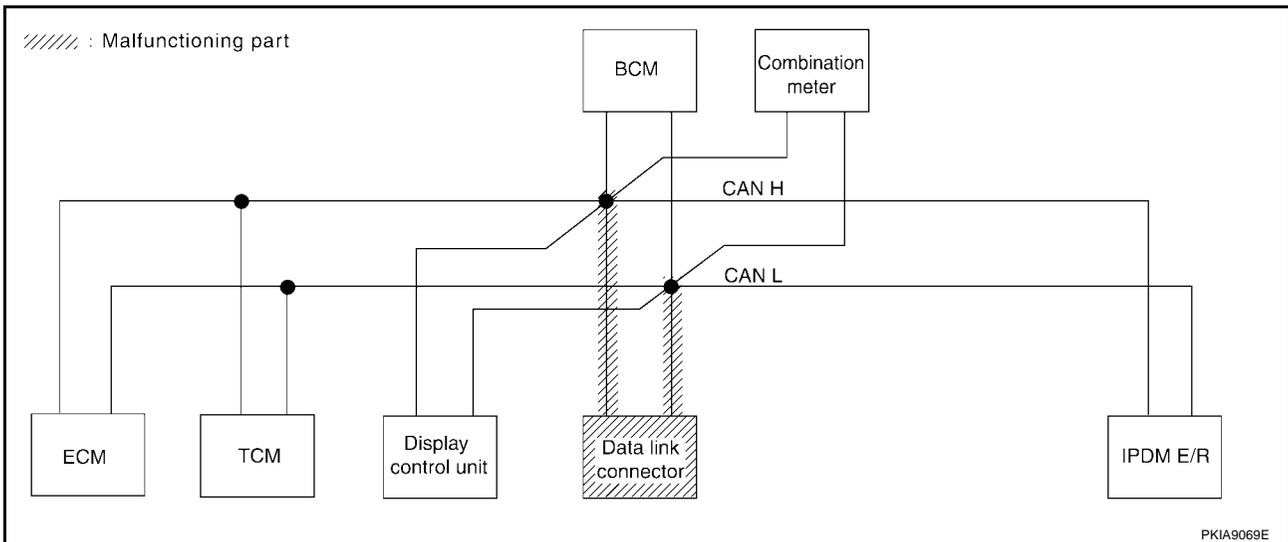
[CAN]

## Case 5

Check data link connector circuit. Refer to [LAN-140, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3588E



# CAN SYSTEM (TYPE 3)

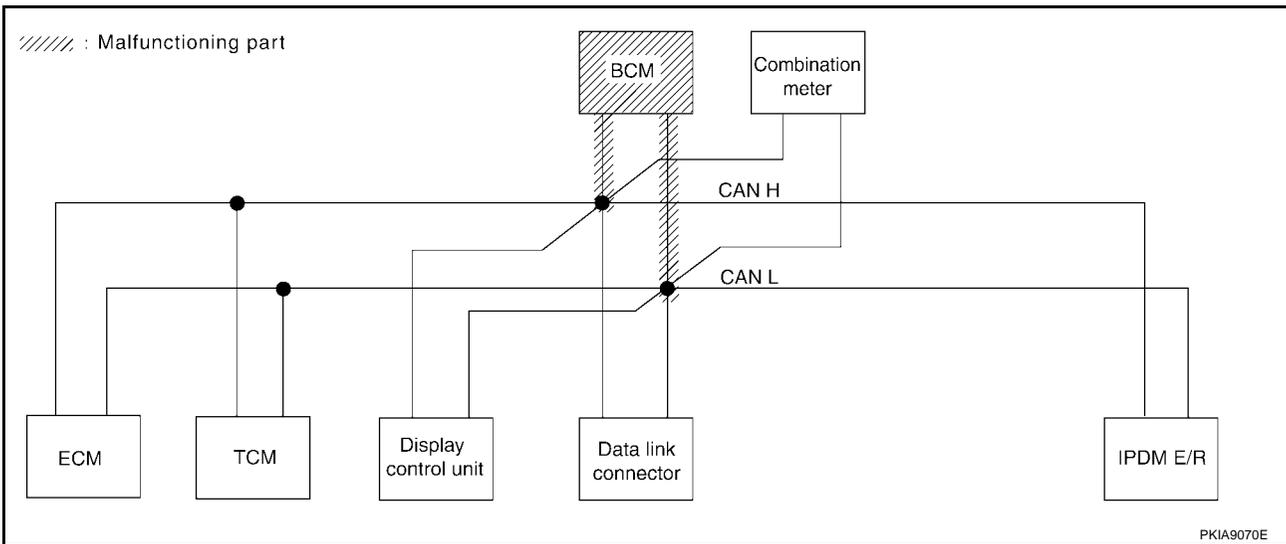
[CAN]

## Case 6

Check BCM circuit. Refer to [LAN-140, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UN <del>✓</del> WN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) <del>UN</del> ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UN <del>✓</del> WN	UNKWN	UNKWN	—	—
BCM	No ind <del>✓</del> ication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UN <del>✓</del> WN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3589E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

# CAN SYSTEM (TYPE 3)

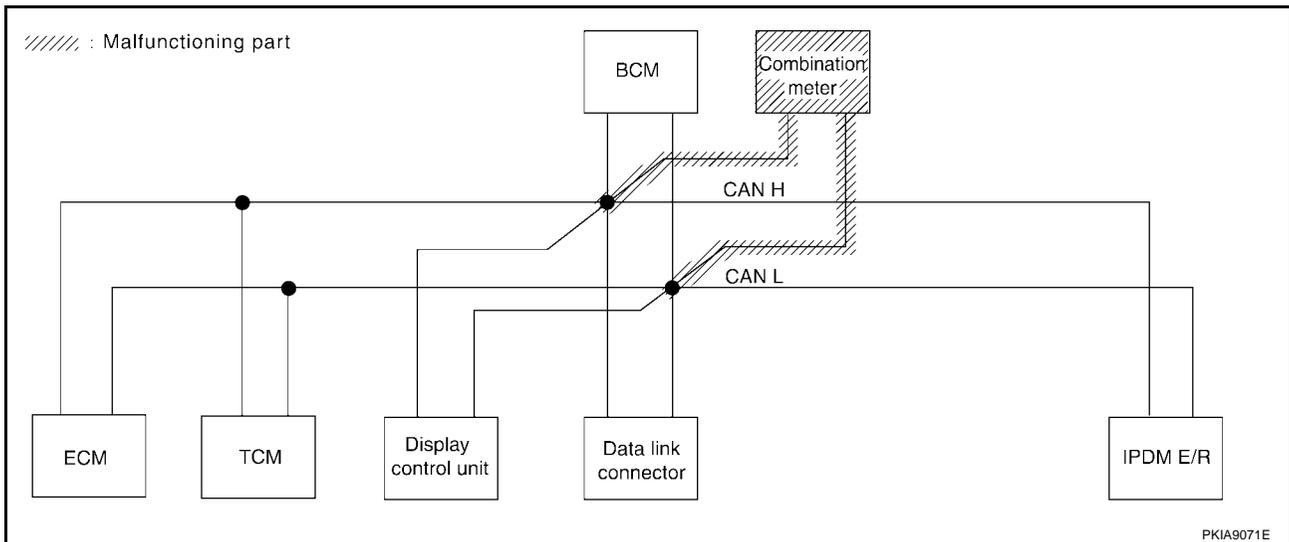
[CAN]

## Case 7

Check combination meter circuit. Refer to [LAN-141, "Combination Meter Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	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	—	—	—	—	—	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3590E



# CAN SYSTEM (TYPE 3)

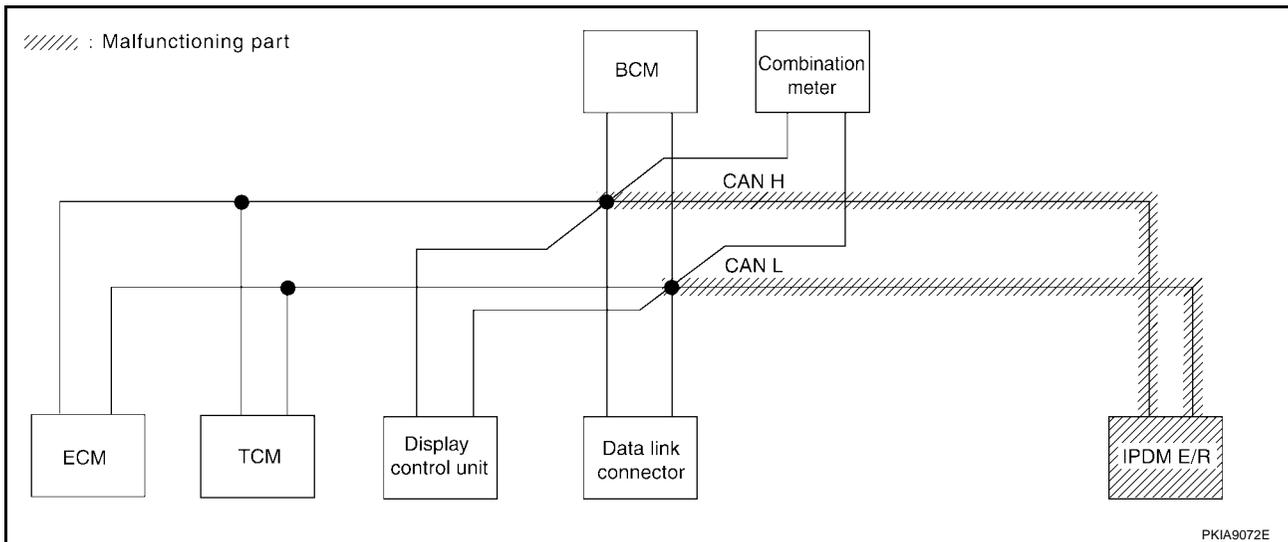
[CAN]

## Case 8

Check IPDM E/R circuit. Refer to [LAN-142, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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	UNKWN	—	UNKWN	UNKWN	UNKWN	✓	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	✓	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC3591E



## Case 9

Check CAN communication circuit. Refer to [LAN-143, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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	—	—	—	—	—	—	—	—	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	—	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC3592E

# CAN SYSTEM (TYPE 3)

[CAN]

## Case 10

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-144, "IPDM E/R Ignition Relay Circuit Check"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	BCM /SEC	METER /M&A				
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U000)	CAN COMM CIRCUIT (U001)	
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)	—	
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—	

PKIC3593E

# CAN SYSTEM (TYPE 4)

[CAN]

---

## CAN SYSTEM (TYPE 4)

PF2:23710

### Component Parts and Harness Connector Location

UKS001VN

A

Refer to [LAN-20, "Component Parts and Harness Connector Location"](#) .

### Schematic

UKS001VO

B

Refer to [LAN-21, "Schematic"](#) .

### Wiring Diagram — CAN —

UKS001VP

C

Refer to [LAN-22, "Wiring Diagram — CAN —"](#) .

D

E

F

G

H

I

J

LAN

L

M

# CAN SYSTEM (TYPE 4)

[CAN]

UKS001RT

## CHECK SHEET

**NOTE:**

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

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

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

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

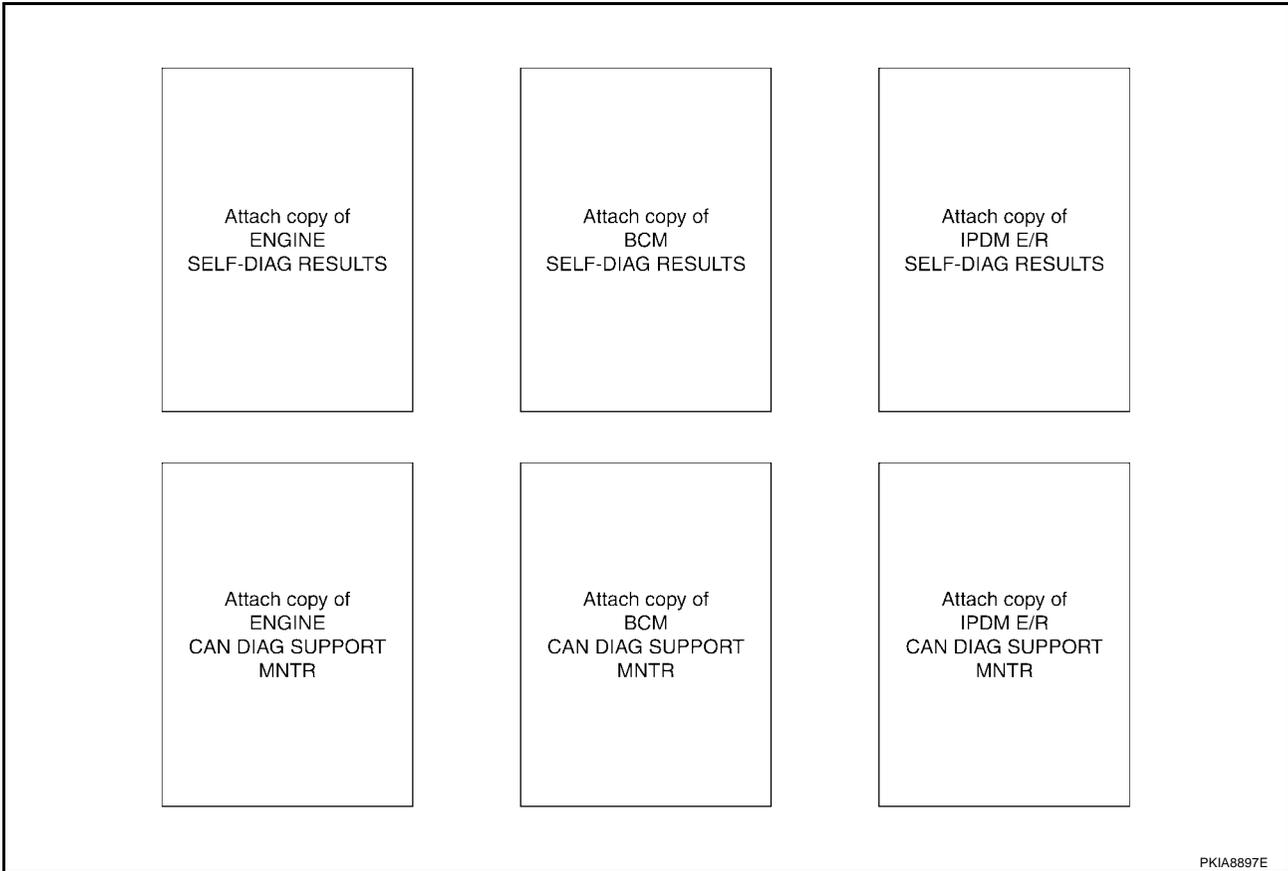
  

Attach copy of  
display control unit  
CAN DIAG SUPPORT MONITOR check sheet

PKIC3594E

# CAN SYSTEM (TYPE 4)

[CAN]



A

B

C

D

E

F

G

H

I

J

LAN

L

M

# CAN SYSTEM (TYPE 4)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

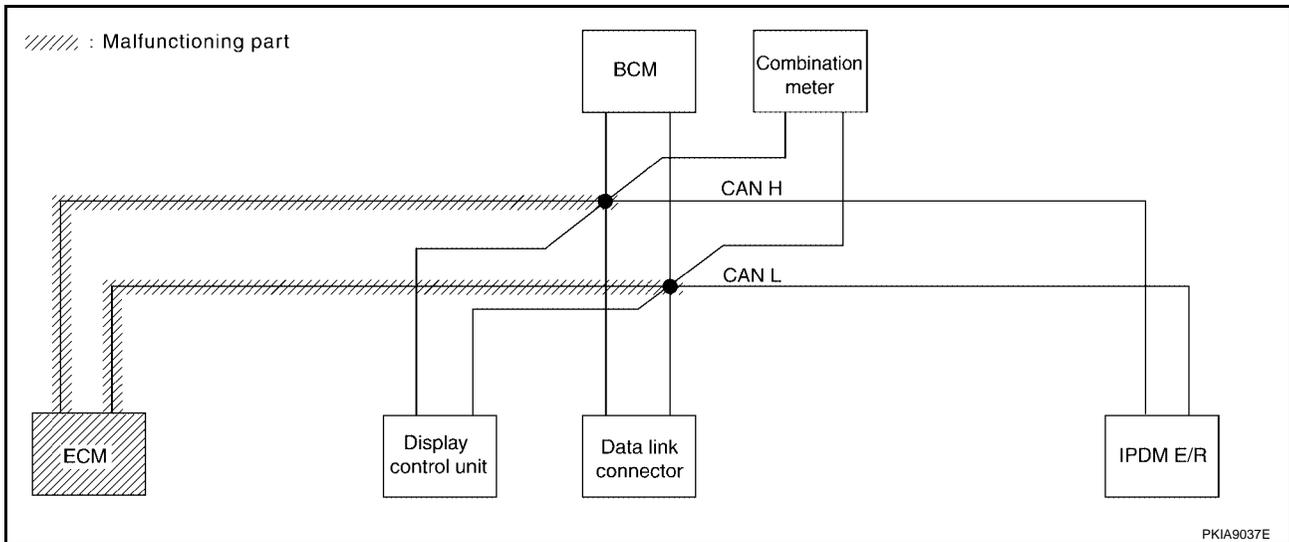
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check ECM circuit. Refer to [LAN-138, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
Display control unit	—	NG	UNKW <sup>✓</sup> N	—	—				
BCM	No indication	NG	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	—	—	CAN COMM CIRCUIT (U000)	—

PKIC3595E



# CAN SYSTEM (TYPE 4)

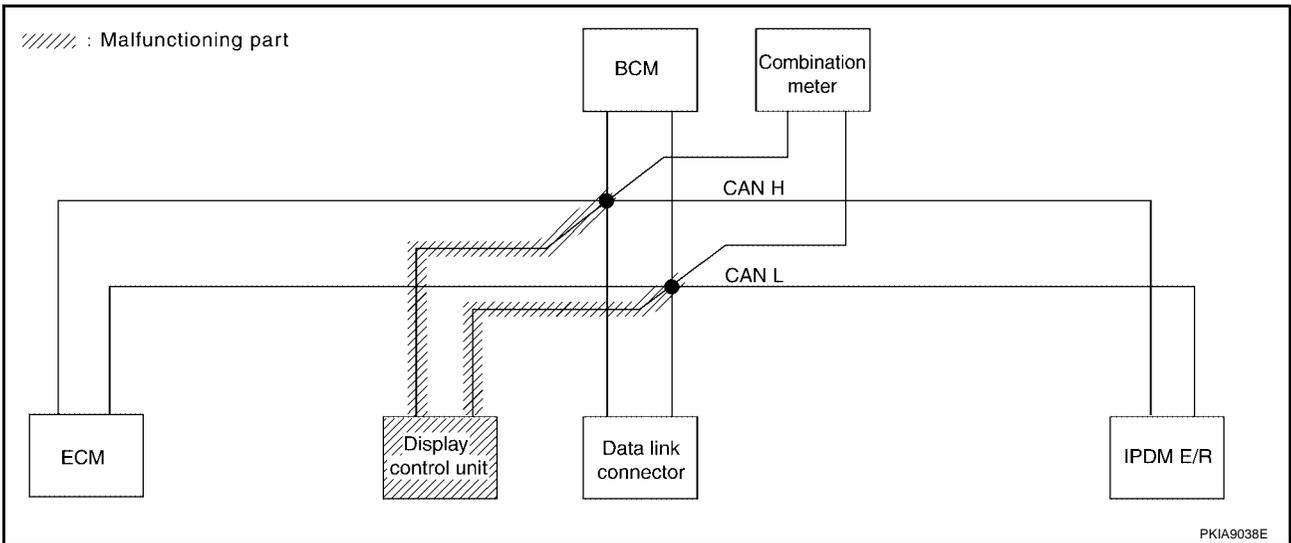
[CAN]

## Case 2

Check display control unit circuit. Refer to [LAN-139, "Display Control Unit Circuit Inspection"](#).

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

PKIC3596E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

# CAN SYSTEM (TYPE 4)

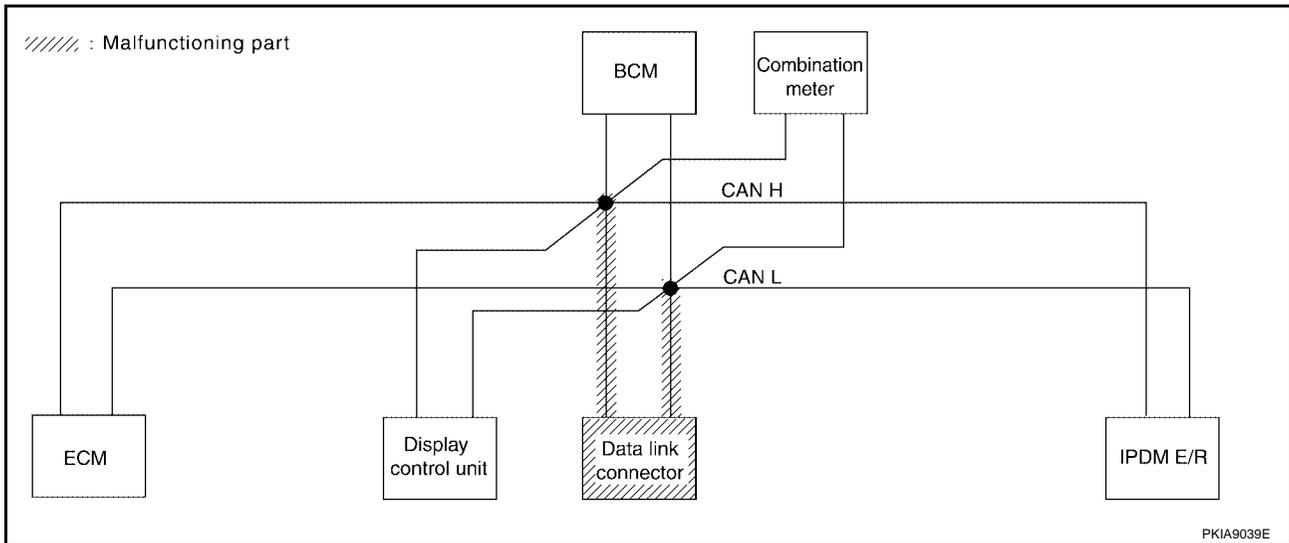
[CAN]

## Case 3

Check data link connector circuit. Refer to [LAN-140, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
Display control unit	—	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	—	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3597E



# CAN SYSTEM (TYPE 4)

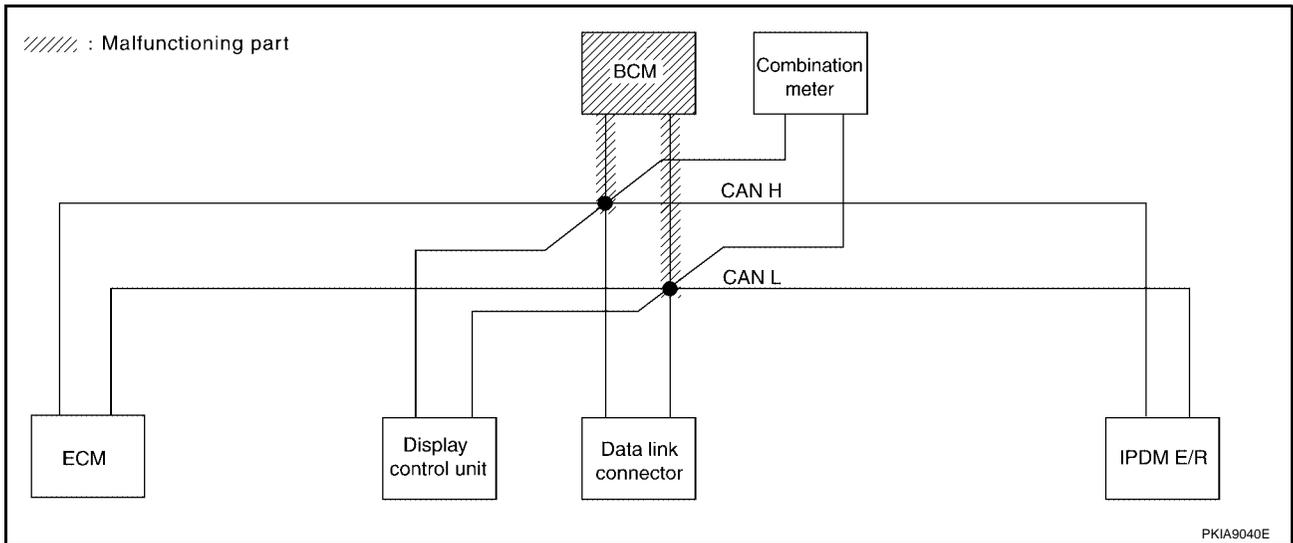
[CAN]

## Case 4

Check BCM circuit. Refer to [LAN-140, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
Display control unit	—	NG	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	—	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓	—

PKIC3598E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

# CAN SYSTEM (TYPE 4)

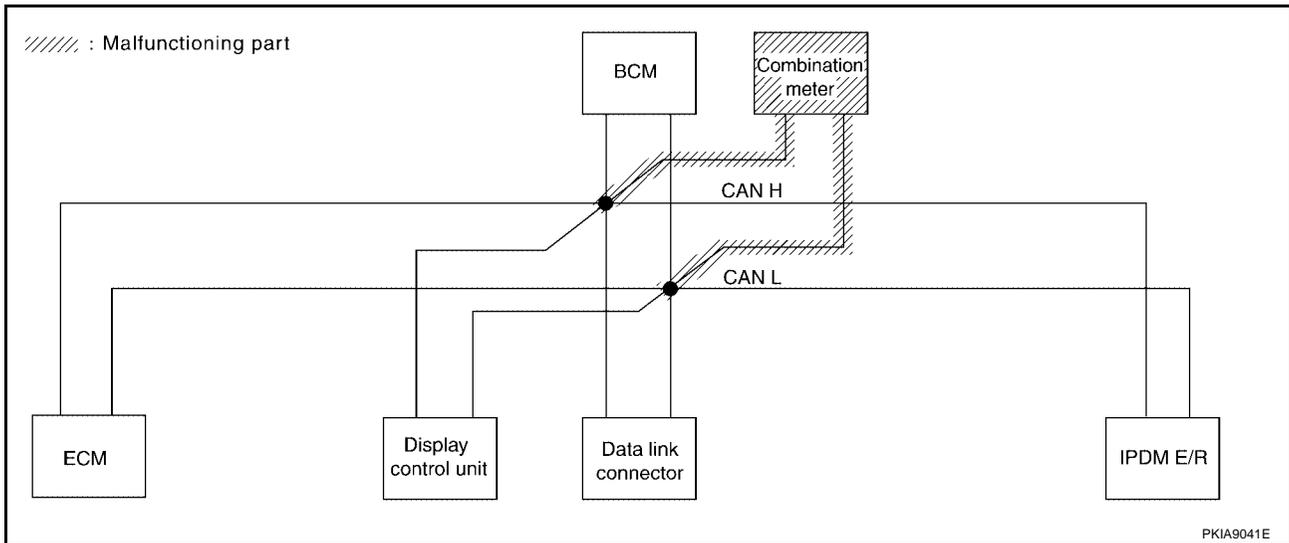
[CAN]

## Case 5

Check combination meter circuit. Refer to [LAN-141, "Combination Meter Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN ✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
Display control unit	—	NG	UNKWN	UNKWN	UNKWN	UNKWN ✓	UNKWN	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3599E



# CAN SYSTEM (TYPE 4)

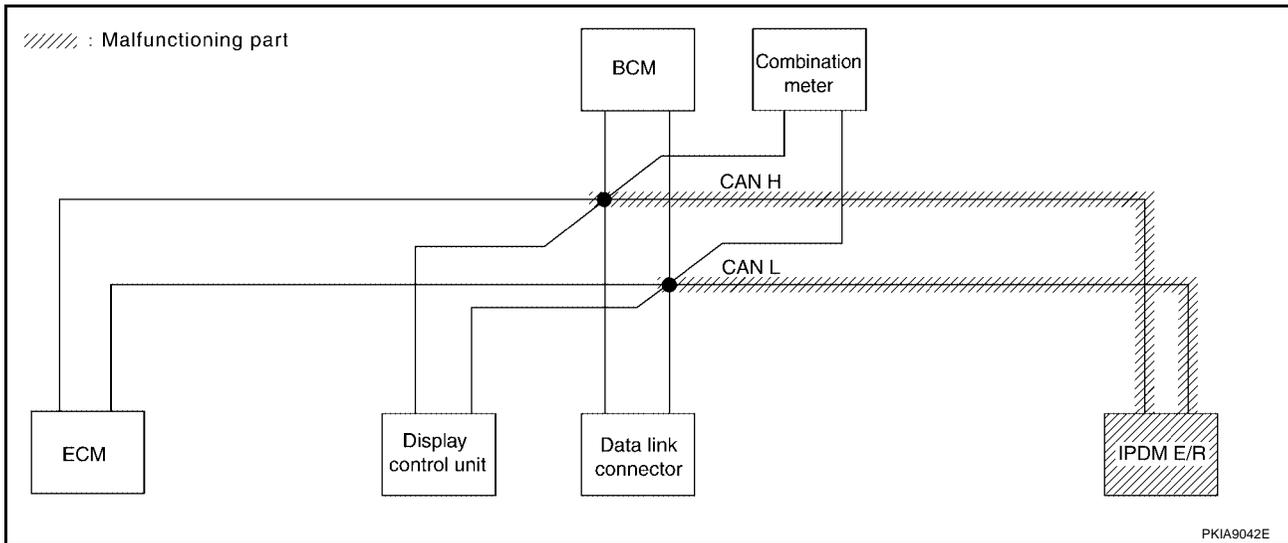
[CAN]

## Case 6

Check IPDM E/R circuit. Refer to [LAN-142, "IPDM E/R Circuit Inspection"](#) .

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

PKIC3600E



## Case 7

Check CAN communication circuit. Refer to [LAN-143, "CAN Communication Circuit Inspection"](#) .

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

PKIC3601E

---

## CAN SYSTEM (TYPE 5)

PFP:23710

### Component Parts and Harness Connector Location

UKS001VB

Refer to [LAN-20, "Component Parts and Harness Connector Location"](#) .

### Schematic

UKS001VC

Refer to [LAN-21, "Schematic"](#) .

### Wiring Diagram — CAN —

UKS001VD

Refer to [LAN-22, "Wiring Diagram — CAN —"](#) .

# CAN SYSTEM (TYPE 5)

[CAN]

UKS001RS

## CHECK SHEET

**NOTE:**

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

Check sheet table									
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

Attach copy of  
ENGINE  
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  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

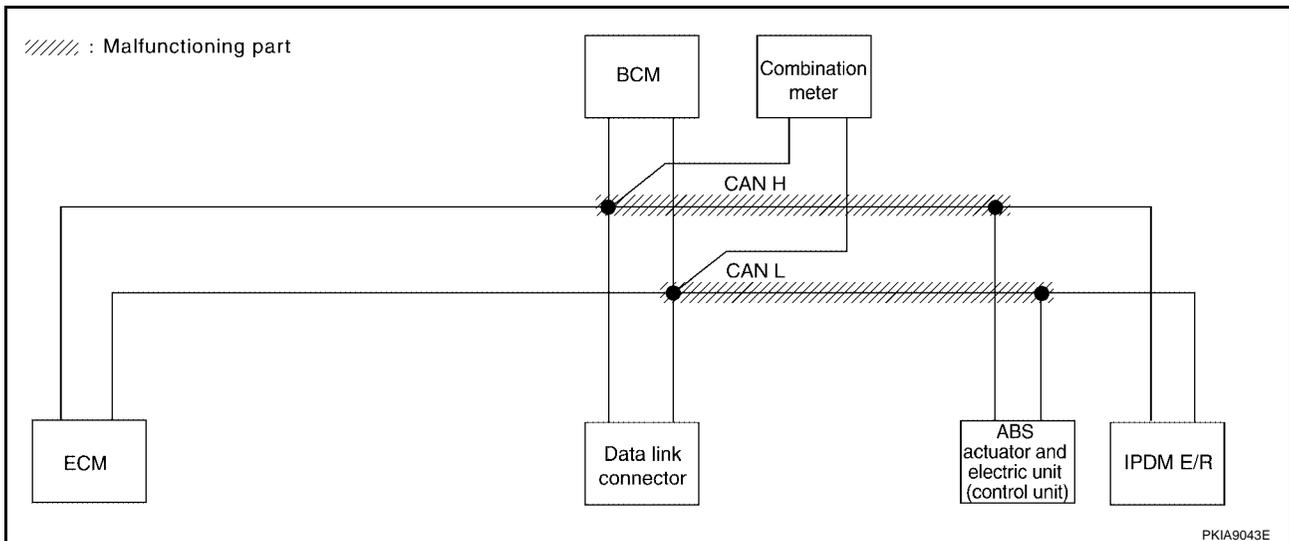
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
BCM	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)	—

PKIC2620E



# CAN SYSTEM (TYPE 5)

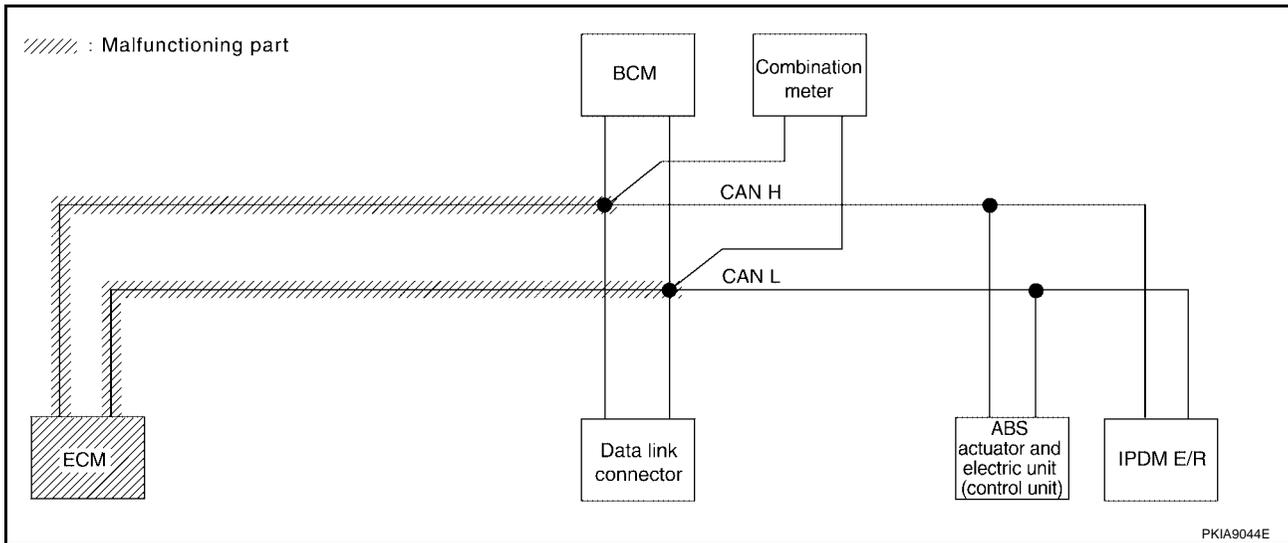
[CAN]

## Case 2

Check ECM circuit. Refer to [LAN-138, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
BCM	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) ✓	—

PKIC2621E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J

LAN

L  
M

# CAN SYSTEM (TYPE 5)

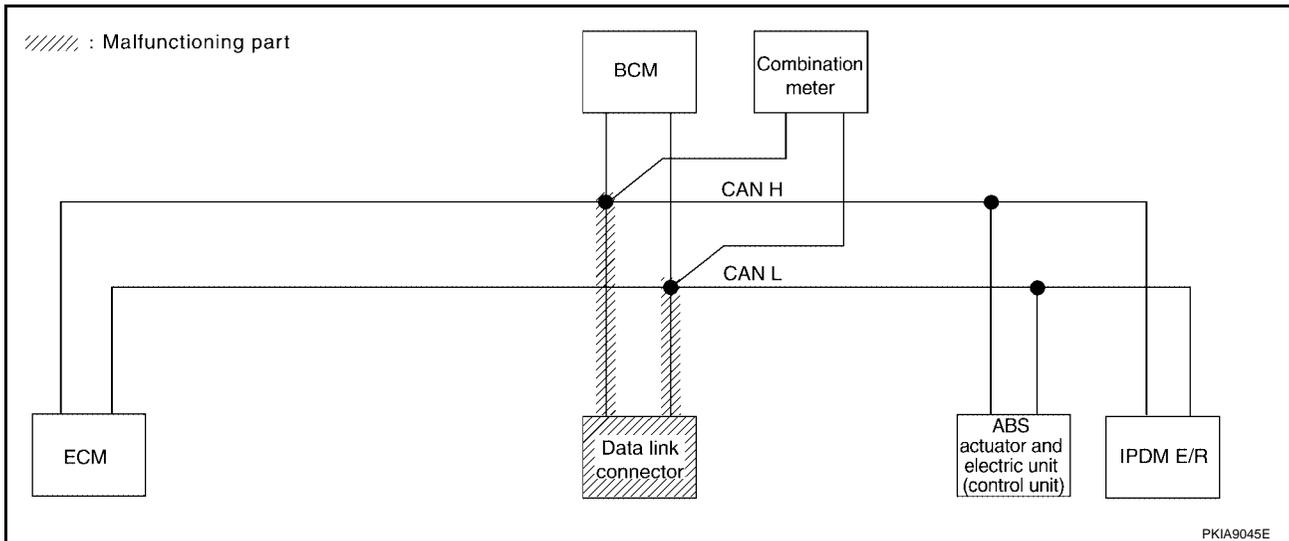
[CAN]

## Case 3

Check data link connector circuit. Refer to [LAN-140, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

PKIC2622E



# CAN SYSTEM (TYPE 5)

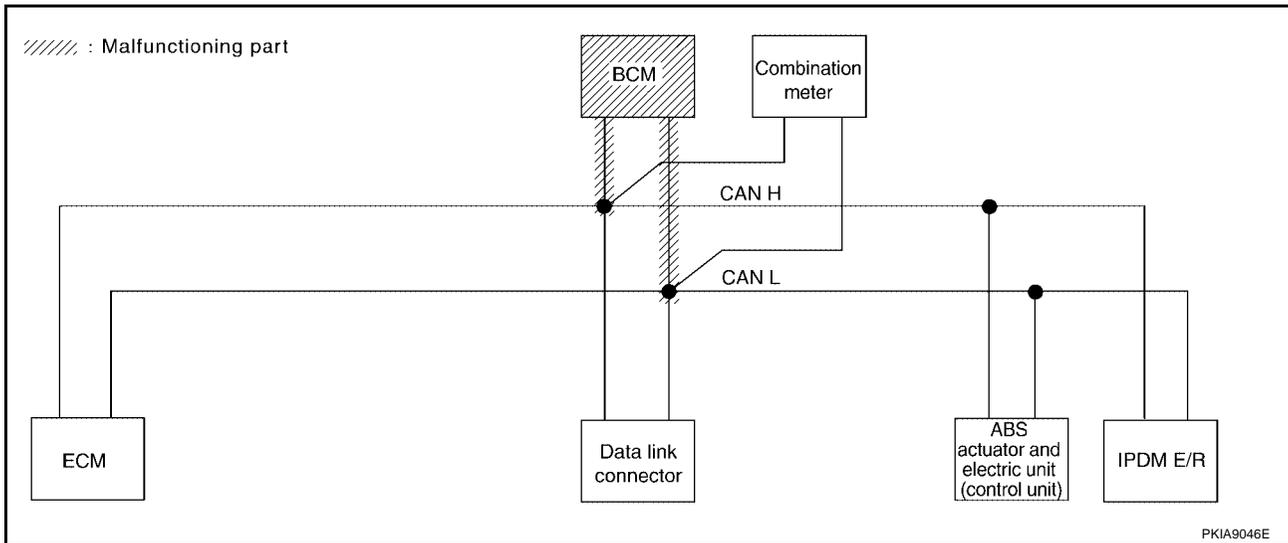
[CAN]

## Case 4

Check BCM circuit. Refer to [LAN-140, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
BCM	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) ✓	—

PKIC2623E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J

LAN

# CAN SYSTEM (TYPE 5)

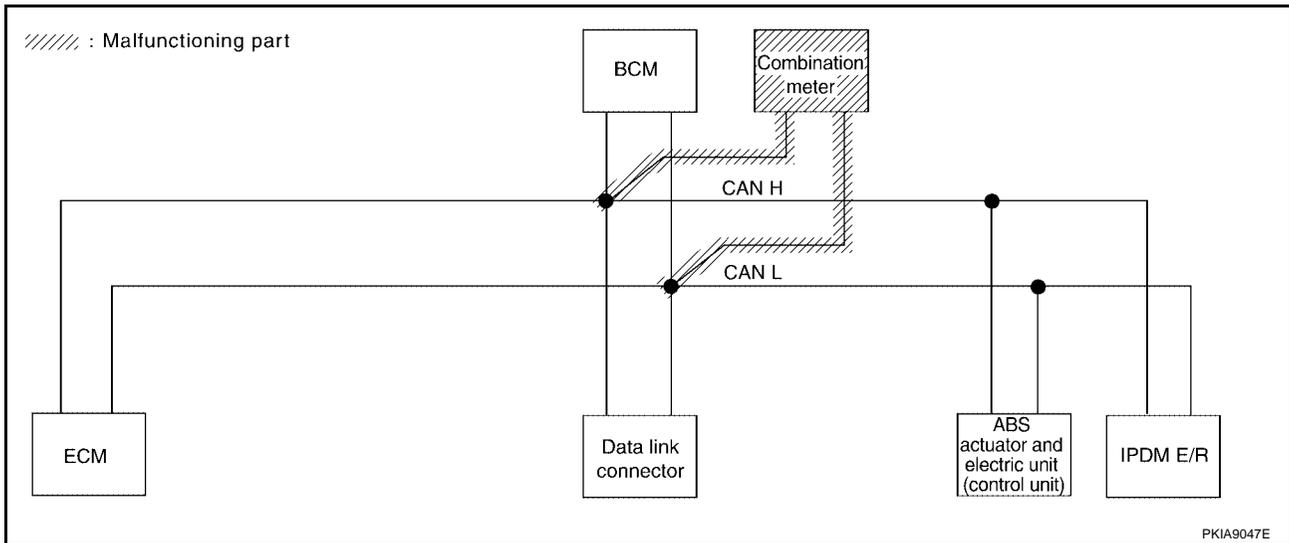
[CAN]

## Case 5

Check combination meter circuit. Refer to [LAN-141, "Combination Meter Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN ✓	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
BCM	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



# CAN SYSTEM (TYPE 5)

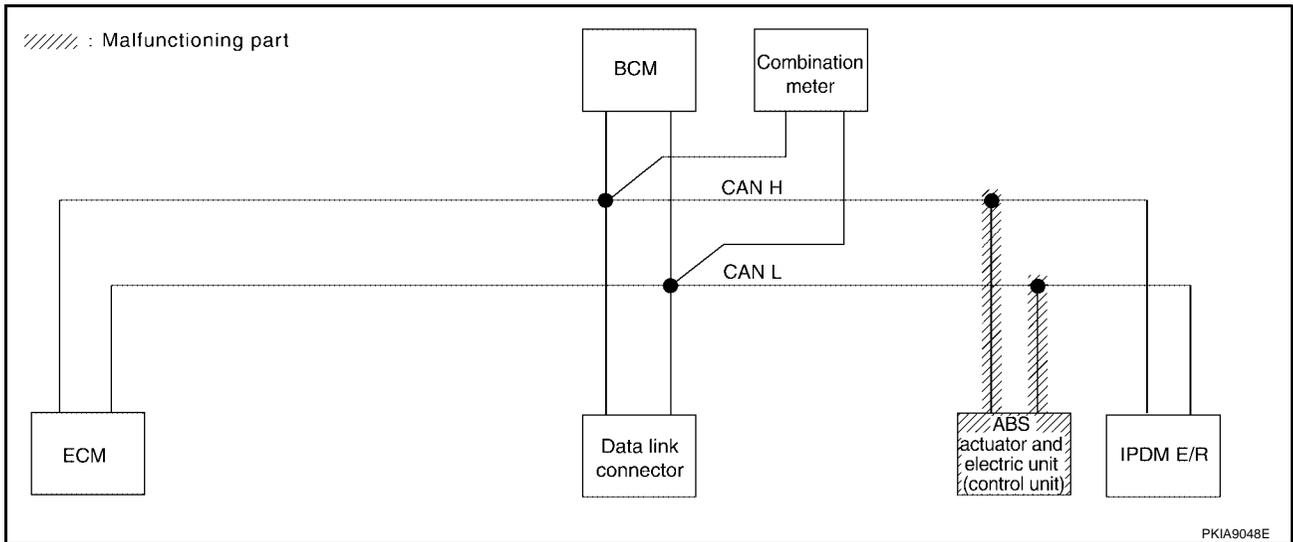
[CAN]

## Case 6

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-141, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

PKIC2625E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

# CAN SYSTEM (TYPE 5)

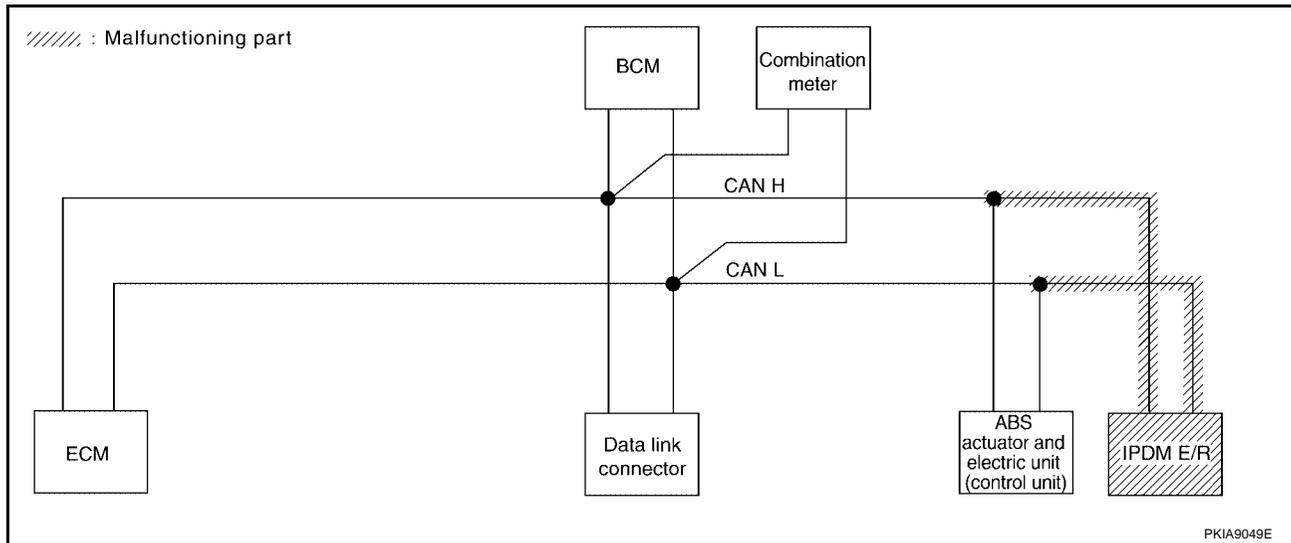
[CAN]

## Case 7

Check IPDM E/R circuit. Refer to [LAN-142, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

PKIC2626E



## Case 8

Check CAN communication circuit. Refer to [LAN-143, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

PKIC2627E

# 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"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM /SEC	METER /M&A	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC2629E

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

---

### CAN SYSTEM (TYPE 6)

PF2P:23710

#### Component Parts and Harness Connector Location

UKS001T6

Refer to [LAN-20, "Component Parts and Harness Connector Location"](#) .

#### Schematic

UKS001T7

Refer to [LAN-21, "Schematic"](#) .

#### Wiring Diagram — CAN —

UKS001T8

Refer to [LAN-22, "Wiring Diagram — CAN —"](#) .

# CAN SYSTEM (TYPE 6)

[CAN]

UKS001RR

## CHECK SHEET

**NOTE:**

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

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

Attach copy of  
ENGINE  
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  
BCM  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
ABS  
CAN DIAG SUPPORT  
MNTR

Attach copy of  
IPDM E/R  
CAN DIAG SUPPORT  
MNTR

PKIC3602E

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

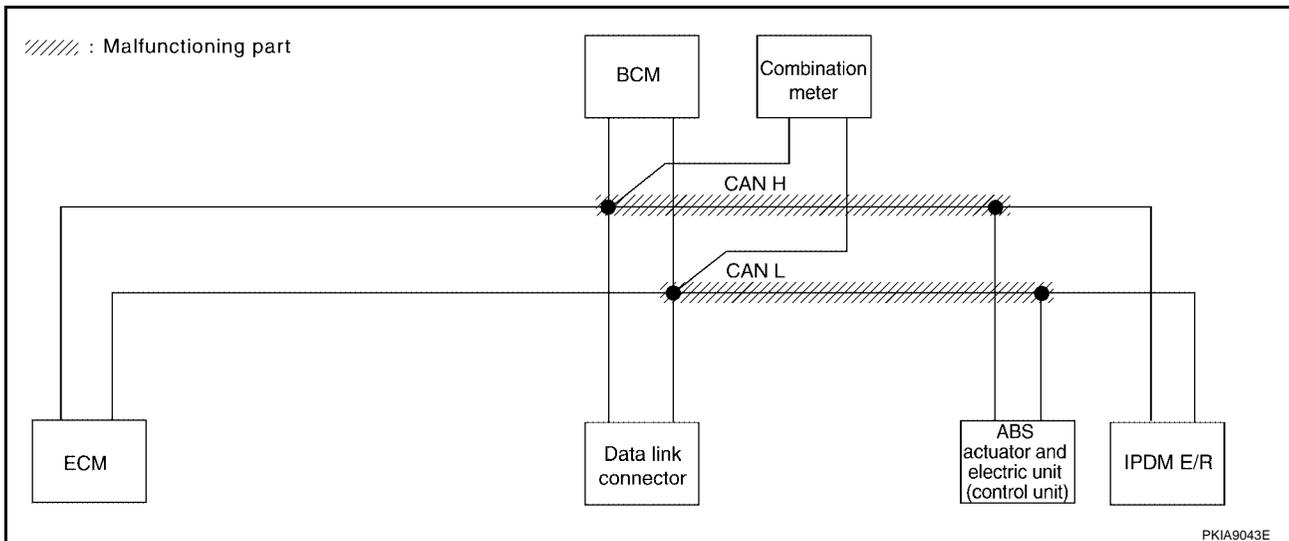
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
BCM	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) ✓	-

PKIC3603E

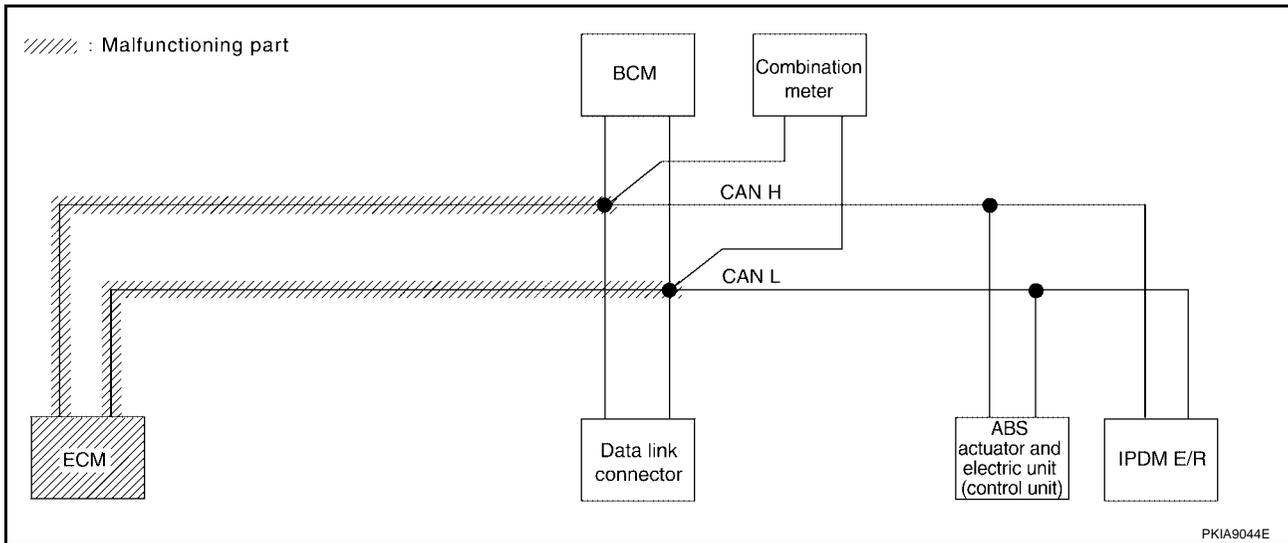


## Case 2

Check ECM circuit. Refer to [LAN-138, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKW <sup>N</sup>	—	UNKW <sup>N</sup>	UNKW <sup>N</sup>	UNKW <sup>N</sup>	UNKW <sup>N</sup>	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKW <sup>N</sup>	UNKW <sup>N</sup>	—	UNKW <sup>N</sup>	—	UNKW <sup>N</sup>	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW <sup>N</sup>	UNKW <sup>N</sup>	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKW <sup>N</sup>	UNKW <sup>N</sup>	UNKW <sup>N</sup>	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3604E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J

LAN

# CAN SYSTEM (TYPE 6)

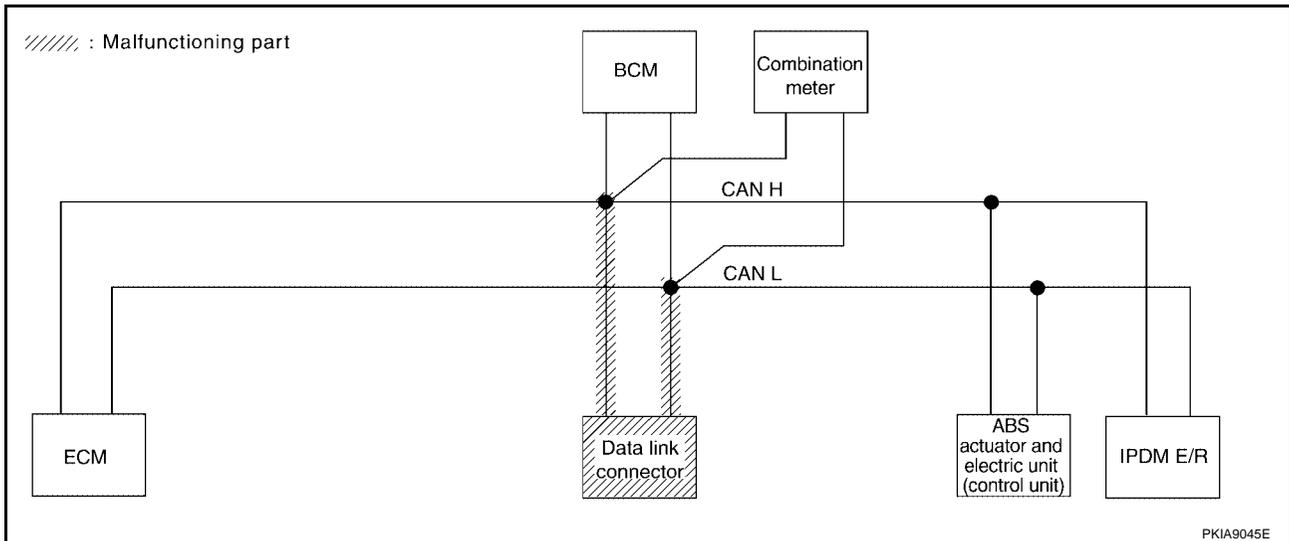
[CAN]

## Case 3

Check data link connector circuit. Refer to [LAN-140, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

PKIC3605E



# CAN SYSTEM (TYPE 6)

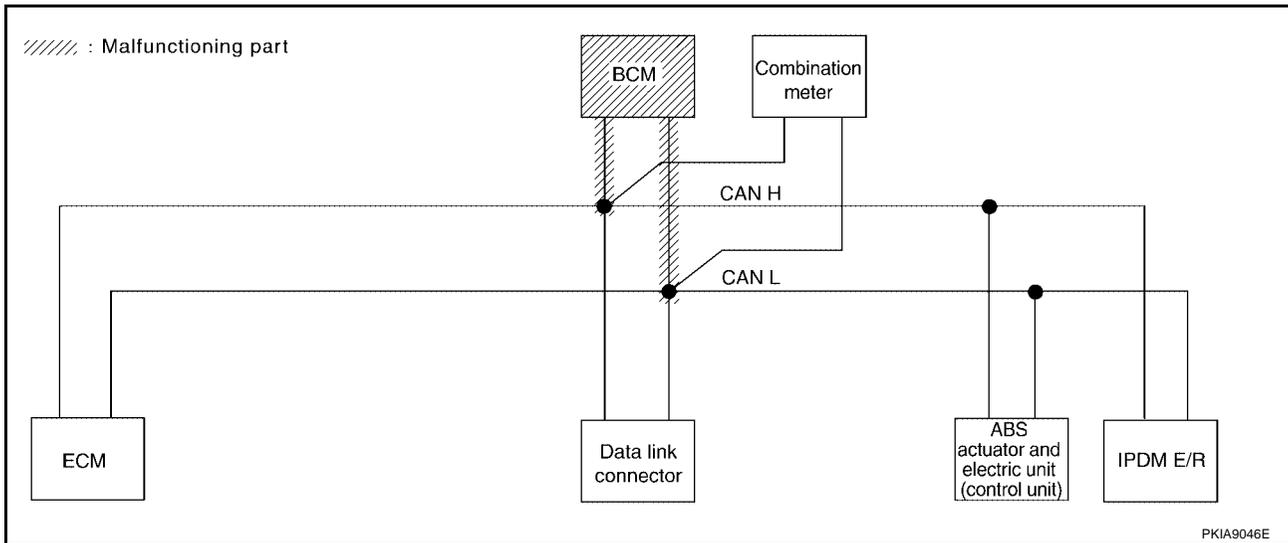
[CAN]

## Case 4

Check BCM circuit. Refer to [LAN-140, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
BCM	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)	—

PKIC3606E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J

LAN

# CAN SYSTEM (TYPE 6)

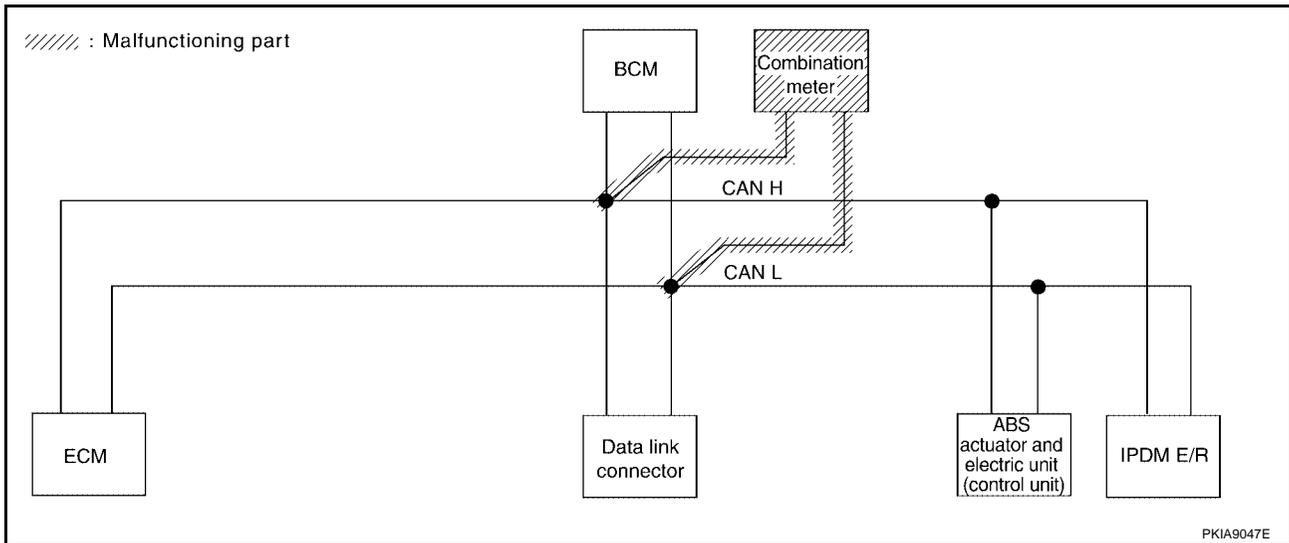
[CAN]

## Case 5

Check combination meter circuit. Refer to [LAN-141, "Combination Meter Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U001)
BCM	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)	—

PKIC3607E



# CAN SYSTEM (TYPE 6)

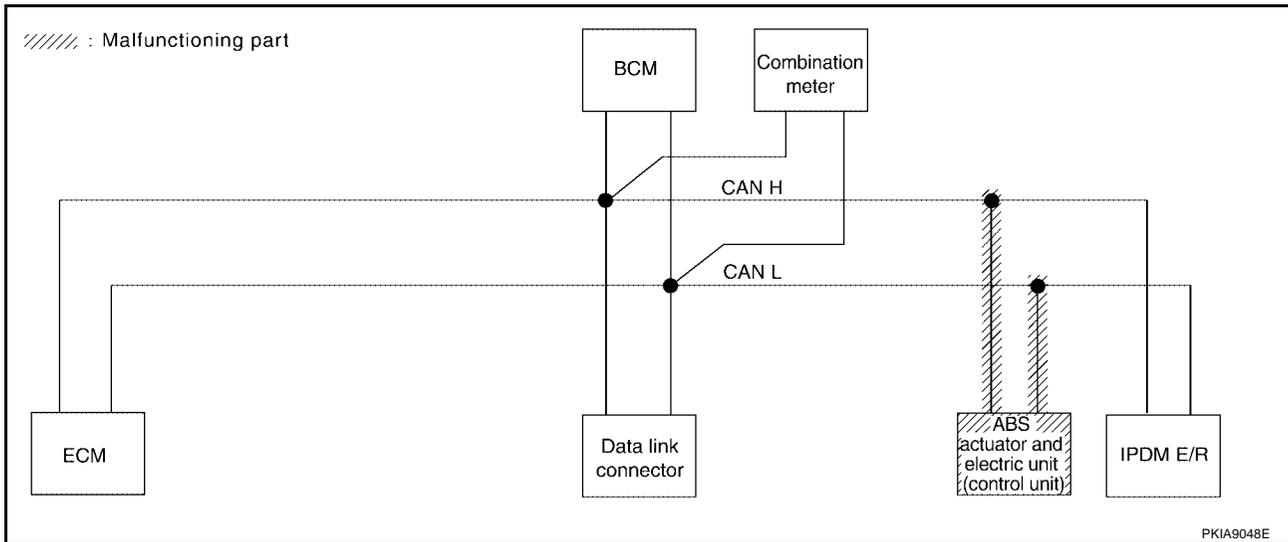
[CAN]

## Case 6

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-141, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	✓	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3608E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

# CAN SYSTEM (TYPE 6)

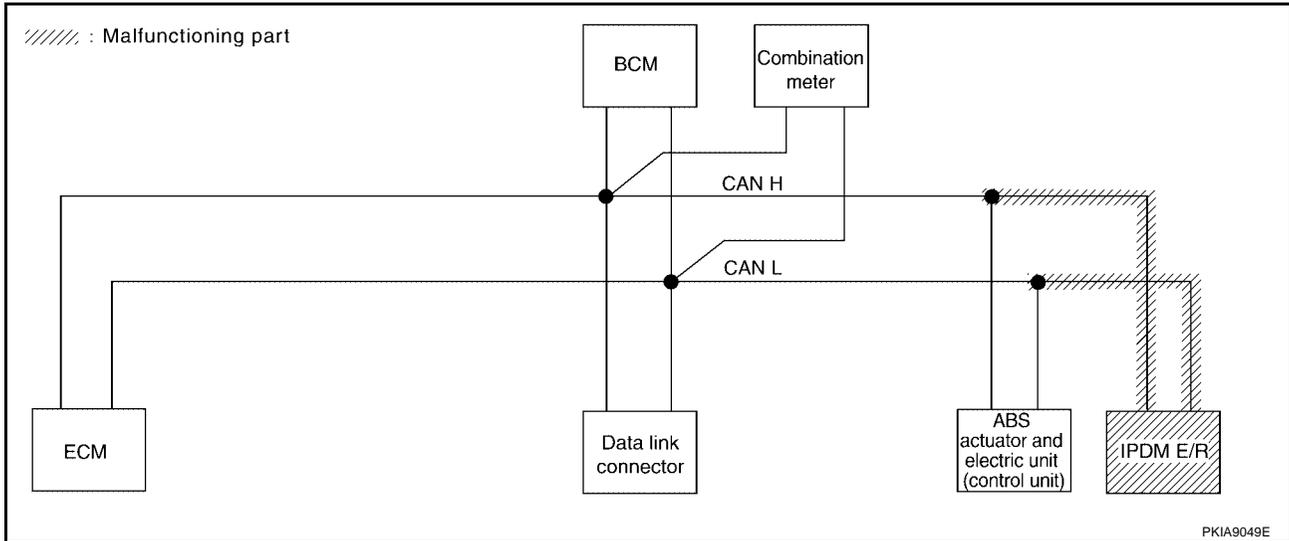
[CAN]

## Case 7

Check IPDM E/R circuit. Refer to [LAN-142, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

PKIC3609E



## Case 8

Check CAN communication circuit. Refer to [LAN-143, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

PKIC3610E

# CAN SYSTEM (TYPE 6)

[CAN]

## Case 9

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-144, "IPDM E/R Ignition Relay Circuit Check"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	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)	—

PKIC3611E

## Case 10

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3612E

A  
B  
C  
D  
E  
F  
G  
H  
I  
J

LAN

L  
M

---

## CAN SYSTEM (TYPE 7)

PFP:23710

### Component Parts and Harness Connector Location

UKS001SS

Refer to [LAN-20, "Component Parts and Harness Connector Location"](#) .

### Schematic

UKS001ST

Refer to [LAN-21, "Schematic"](#) .

### Wiring Diagram — CAN —

UKS001SU

Refer to [LAN-22, "Wiring Diagram — CAN —"](#) .

# CAN SYSTEM (TYPE 7)

[CAN]

UKS001RQ

## CHECK SHEET

**NOTE:**

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

Check sheet table											
SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						SELF-DIAG RESULTS	
				Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	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)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

PKIC3613E

# CAN SYSTEM (TYPE 7)

[CAN]

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

PKIA8900E



# CAN SYSTEM (TYPE 7)

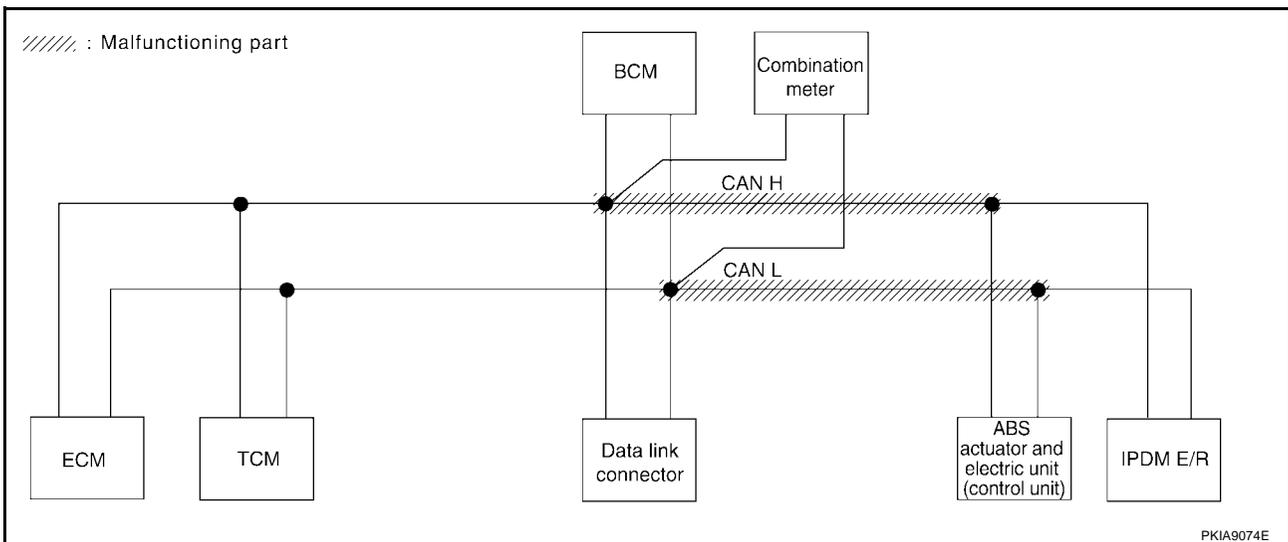
[CAN]

## Case 2

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—
BCM	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)	—

PKIC3615E



PKIA9074E

# CAN SYSTEM (TYPE 7)

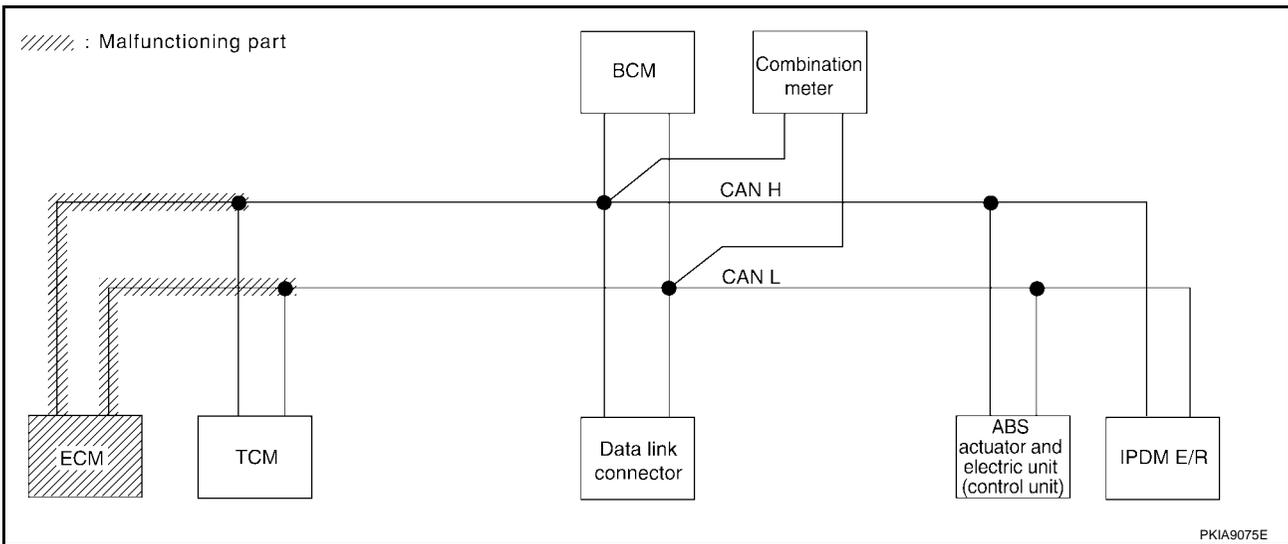
[CAN]

## Case 3

Check ECM circuit. Refer to [LAN-138, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	CAN COMM CIRCUIT (U100) ✓	CAN COMM CIRCUIT (U101) ✓
TRANSMISSION	No indication	NG	UNKWN	—	—	—	UNKWN	UNKWN	—	—	—
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	—
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	CAN COMM CIRCUIT (U100) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100) ✓	—

PKIC3616E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

# CAN SYSTEM (TYPE 7)

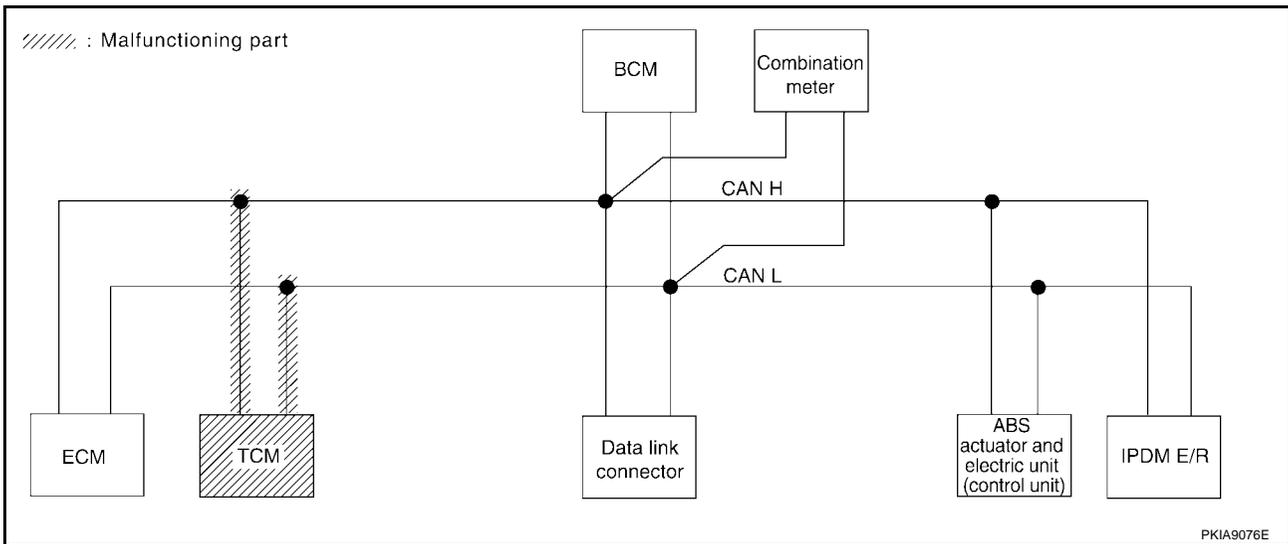
[CAN]

## Case 4

Check TCM circuit. Refer to [LAN-139, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—
BCM	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)	—

PKIC3617E



# CAN SYSTEM (TYPE 7)

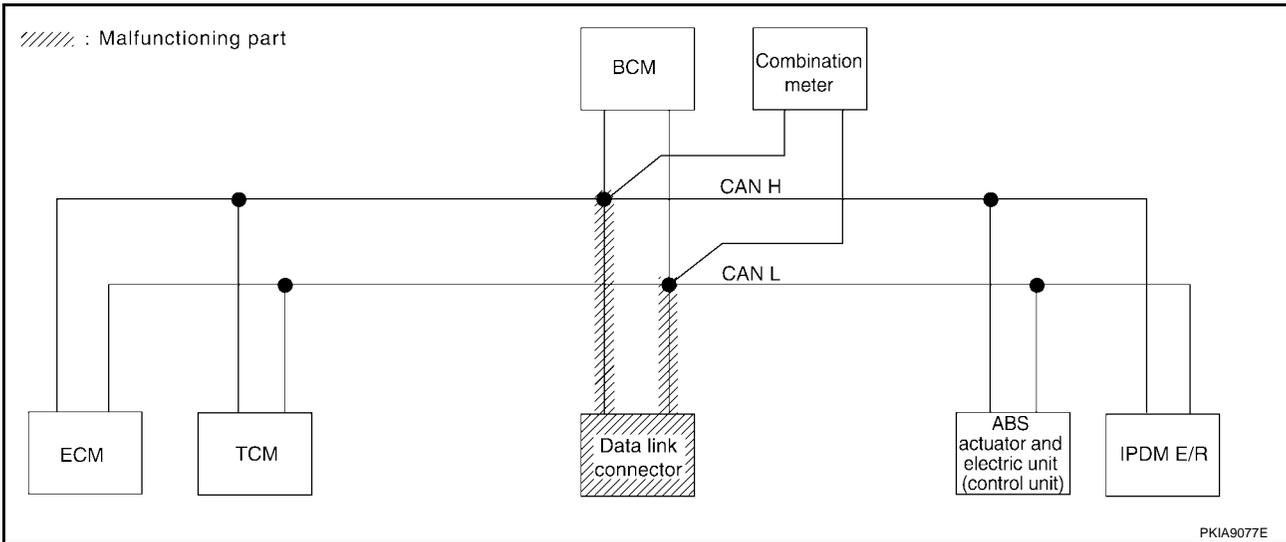
[CAN]

## Case 5

Check data link connector circuit. Refer to [LAN-140, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	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)	—

PKIC3618E



PKIA9077E

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M

LAN

# CAN SYSTEM (TYPE 7)

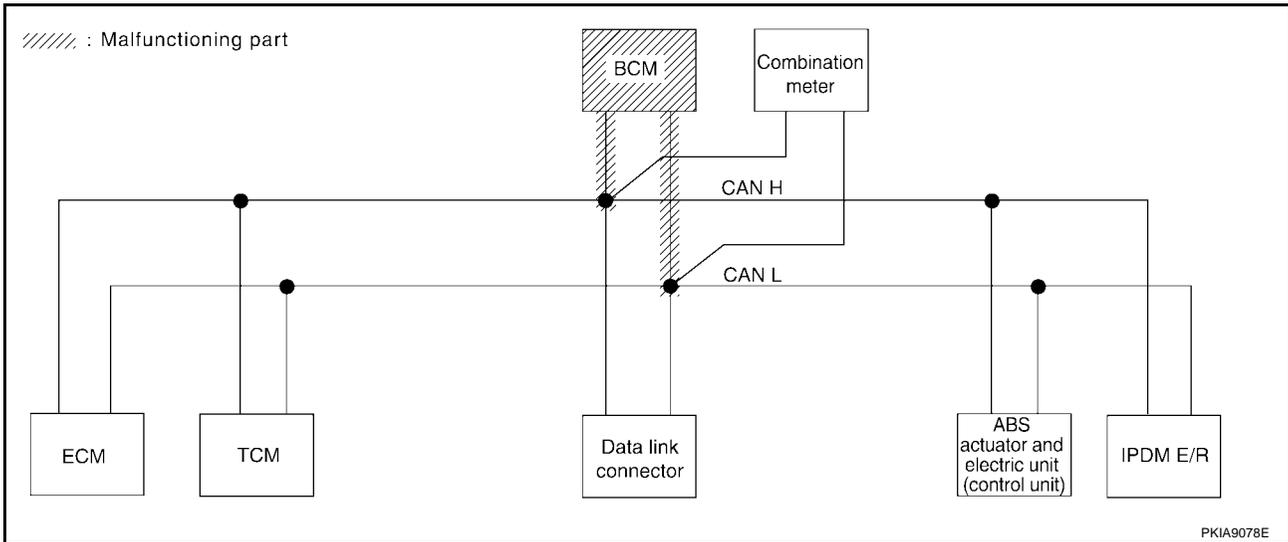
[CAN]

## Case 6

Check BCM circuit. Refer to [LAN-140, "BCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN ✓	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	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) ✓	—

PKIC3619E



# CAN SYSTEM (TYPE 7)

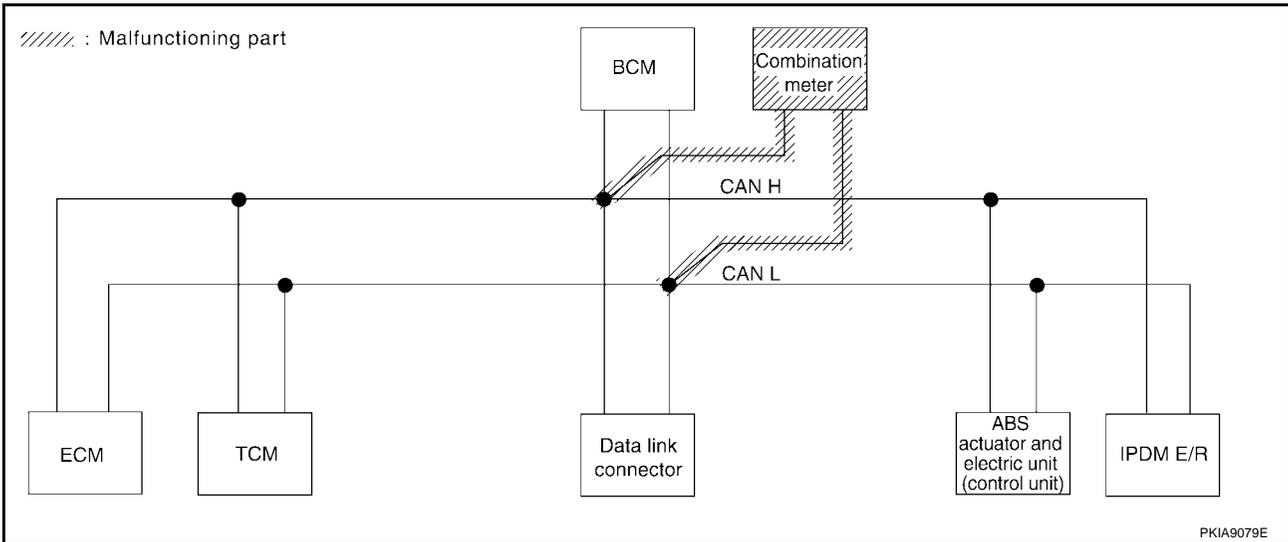
[CAN]

## Case 7

Check combination meter circuit. Refer to [LAN-141, "Combination Meter Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—
BCM	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)	—

PKIC3620E



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

# CAN SYSTEM (TYPE 7)

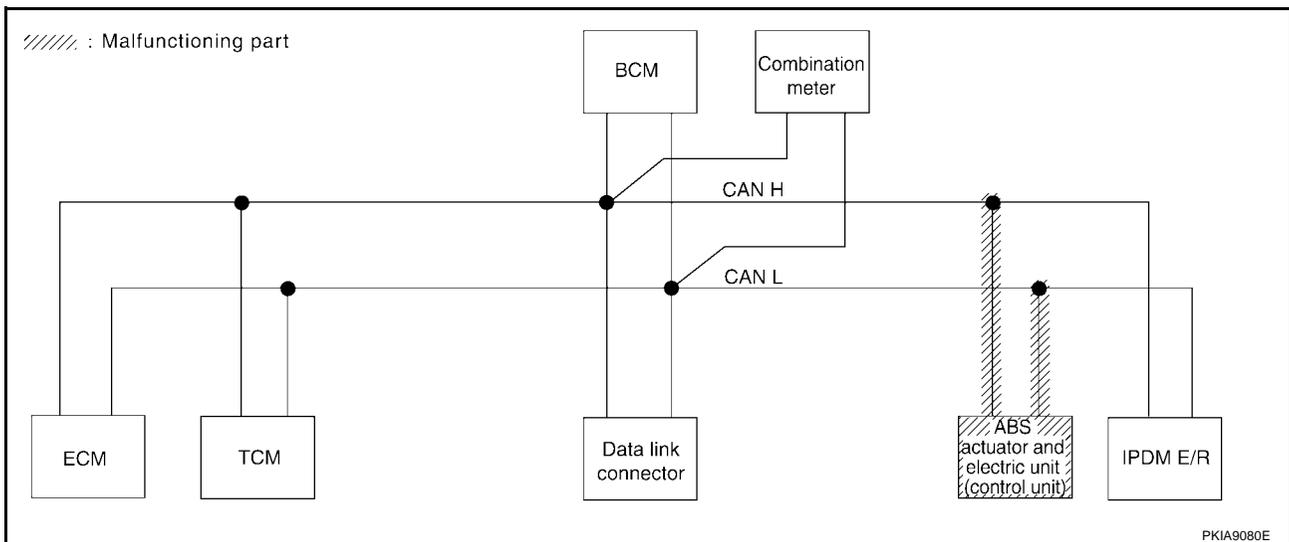
[CAN]

## Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-141, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	<b>NG</b>	<b>UNKWN</b>	<b>UNKWN</b>	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3621E



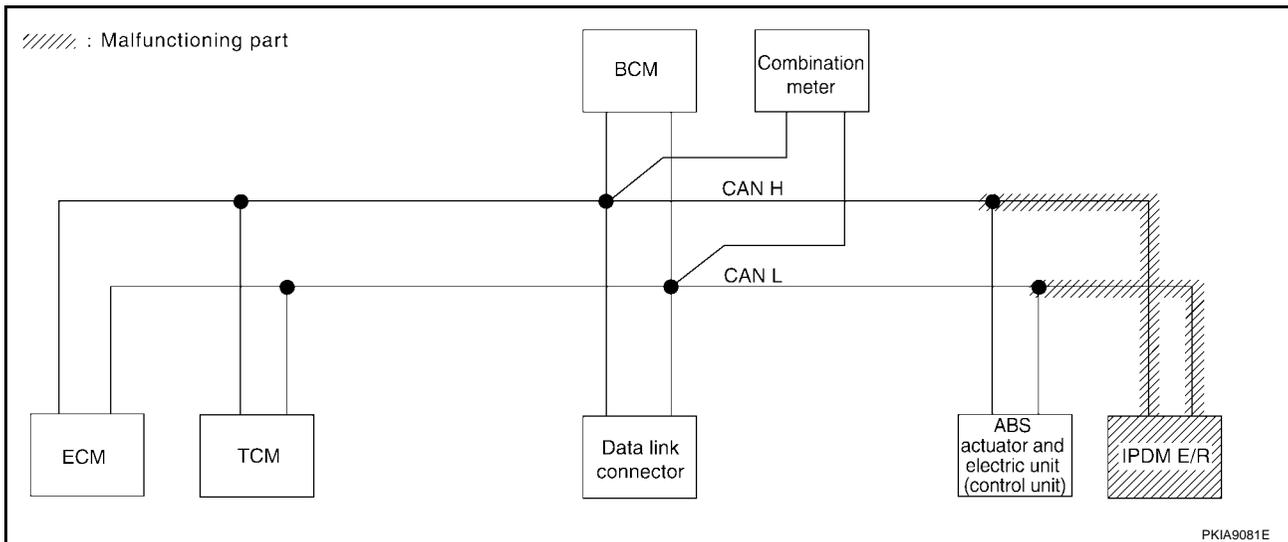
PKIA9080E

## Case 9

Check IPDM E/R circuit. Refer to [LAN-142, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	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)	-

PKIC3622E



## Case 10

Check CAN communication circuit. Refer to [LAN-143, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN ✓	-	UNKWN ✓	UNKWN ✓	UNKWN ✓	-	UNKWN ✓	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-
BCM	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) ✓	-

PKIC3623E

# CAN SYSTEM (TYPE 7)

[CAN]

## Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-144, "IPDM E/R Ignition Relay Circuit Check"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100) ✓	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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)	—

PKIC3624E

## Case 12

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3625E

# CAN SYSTEM (TYPE 8)

[CAN]

---

## CAN SYSTEM (TYPE 8)

PF:23710

### Component Parts and Harness Connector Location

UKS001SE

A

Refer to [LAN-20, "Component Parts and Harness Connector Location"](#) .

### Schematic

UKS001SF

B

Refer to [LAN-21, "Schematic"](#) .

### Wiring Diagram — CAN —

UKS001SG

C

Refer to [LAN-22, "Wiring Diagram — CAN —"](#) .

D

E

F

G

H

I

J

LAN

L

M

# CAN SYSTEM (TYPE 8)

[CAN]

UKS001RP

## CHECK SHEET

**NOTE:**

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

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

PKIC3626E

# CAN SYSTEM (TYPE 8)

[CAN]

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

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

PKIA8900E

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

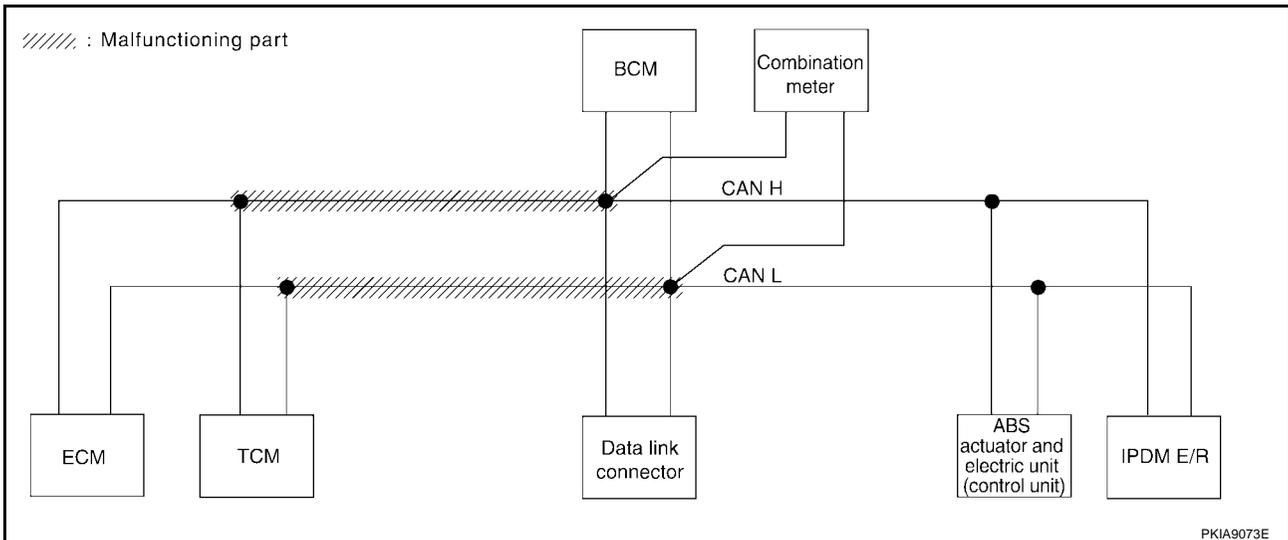
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-136, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—
BCM	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)	—

PKIC3627E



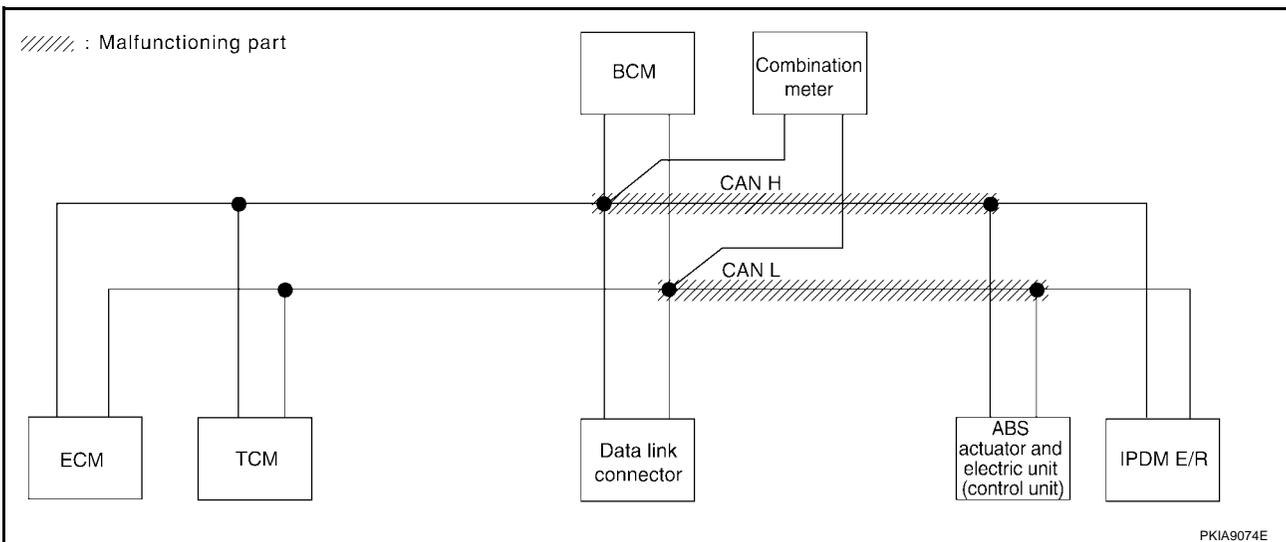
PKIA9073E

## Case 2

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—
BCM	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) ✓	—

PKIC3628E



# CAN SYSTEM (TYPE 8)

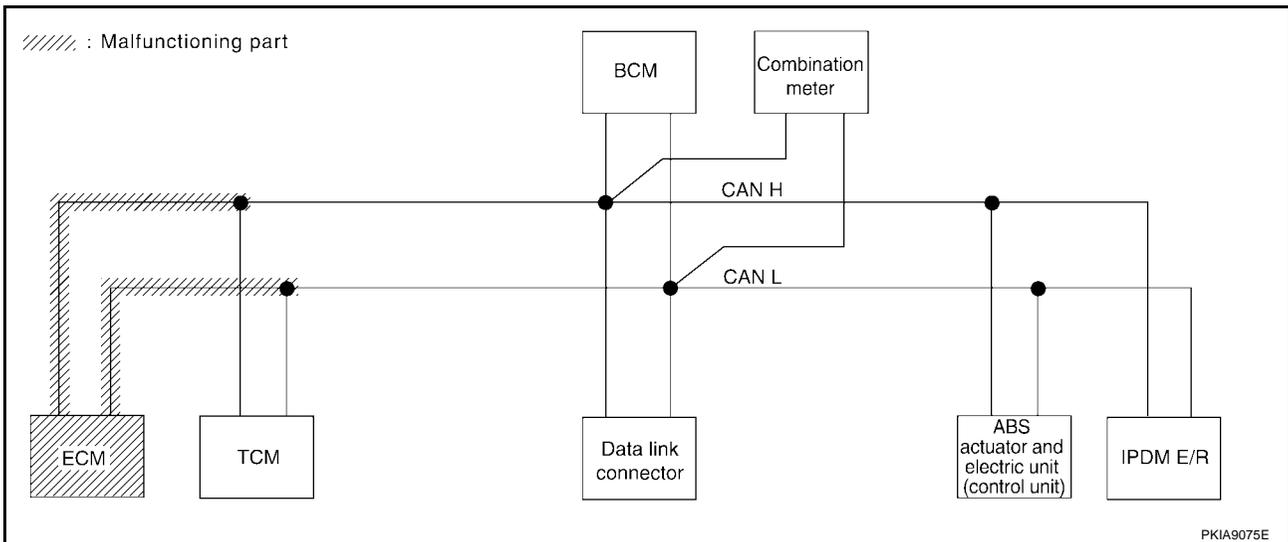
[CAN]

## Case 3

Check ECM circuit. Refer to [LAN-138, "ECM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	CAN COMM CIRCUIT (U1000) <sup>✓</sup>	CAN COMM CIRCUIT (U1001) <sup>✓</sup>				
TRANSMISSION	No indication	NG	UNKW <sup>✓</sup> N	—	—	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	—	—	—
BCM	No indication	NG	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	—	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	CAN COMM CIRCUIT (U1000) <sup>✓</sup>	—
ABS	—	NG	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	—	—	—	—	CAN COMM CIRCUIT (U1000) <sup>✓</sup>	—
IPDM E/R	No indication	—	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	—	—	—	CAN COMM CIRCUIT (U1000) <sup>✓</sup>	—

PKIC3629E



PKIA9075E

# CAN SYSTEM (TYPE 8)

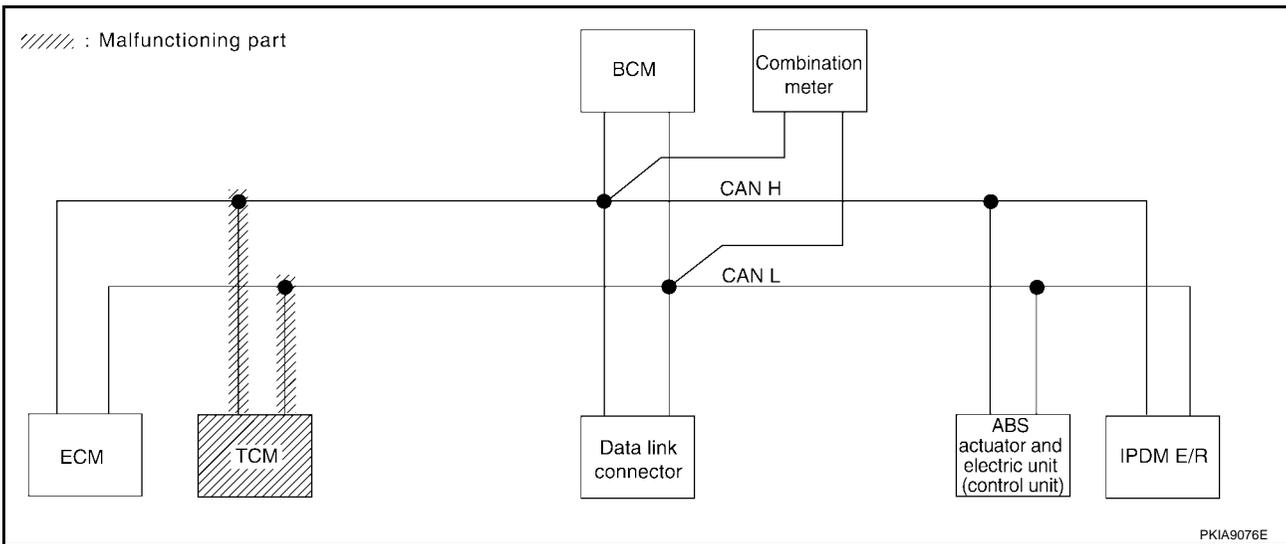
[CAN]

## Case 4

Check TCM circuit. Refer to [LAN-139, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMM CIRCUIT (U101)
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U100)	—
ABS	—	NG	UNKWN	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U100)	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U100)	—

PKIC3630E

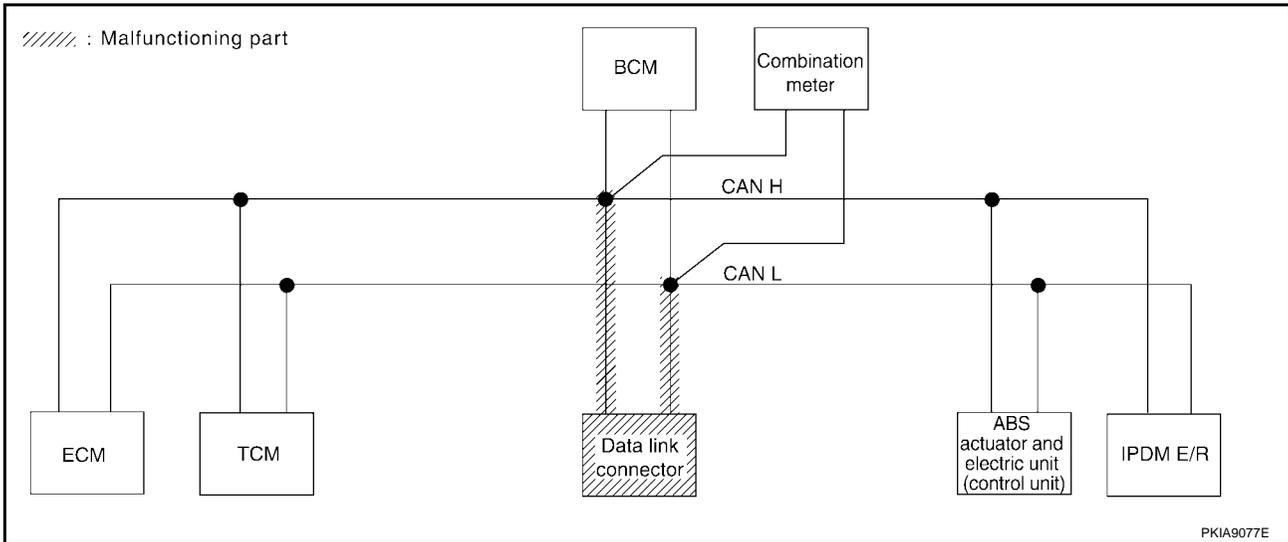


## Case 5

Check data link connector circuit. Refer to [LAN-140, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	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)	-

PKIC3631E

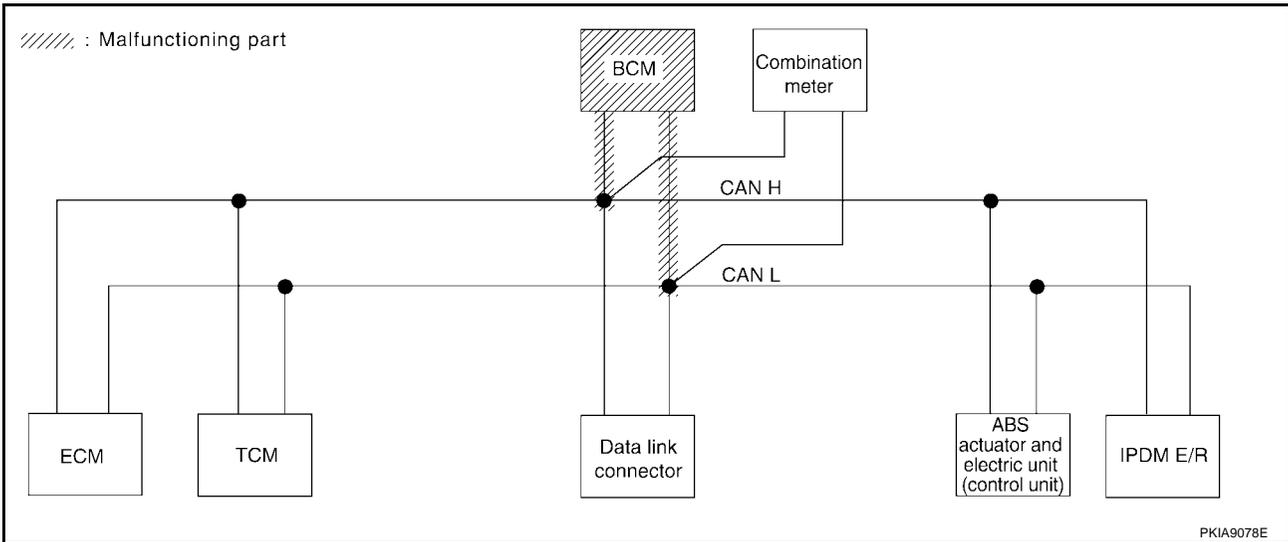


## Case 6

Check BCM circuit. Refer to [LAN-140, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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) ✓	—

PKIC3632E



# CAN SYSTEM (TYPE 8)

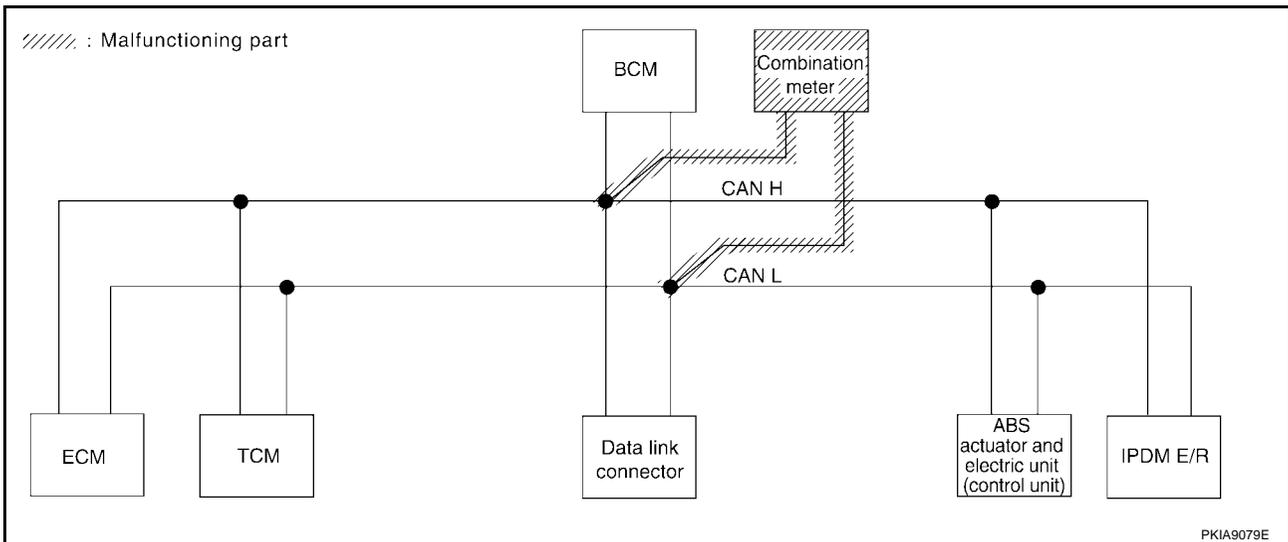
[CAN]

## Case 7

Check combination meter circuit. Refer to [LAN-141, "Combination Meter Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	—	—
BCM	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)	—

PKIC3633E

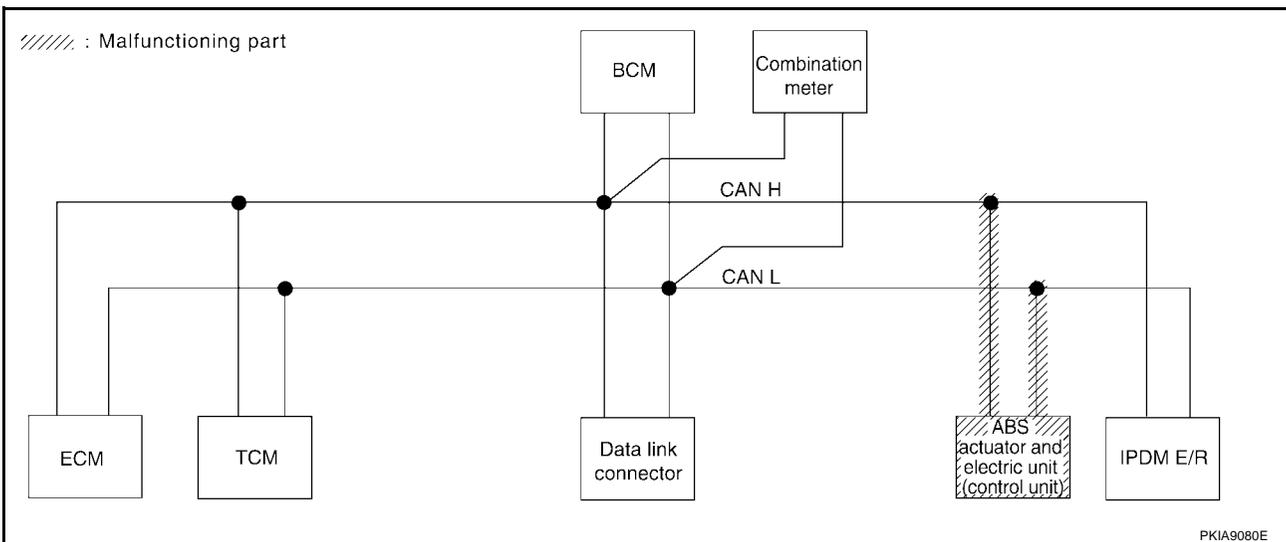


## Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-141, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
ABS	—	✓	UNKWN	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓	—
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3634E

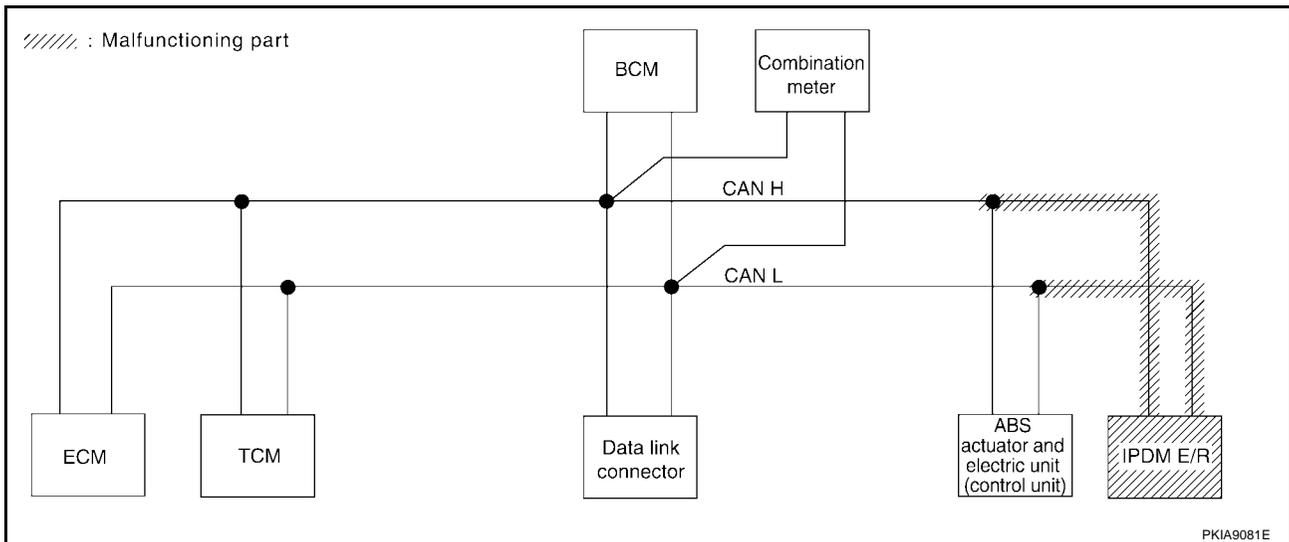


## Case 9

Check IPDM E/R circuit. Refer to [LAN-142, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKW	—	UNKW	UNKW	UNKW	UNKW	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication	NG	UNKW	UNKW	—	—	UNKW	UNKW	—	—	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKW	UNKW	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG	UNKW	UNKW	UNKW	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKW	UNKW	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3635E



## Case 10

Check CAN communication circuit. Refer to [LAN-143, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	—	UNKW ✓	—	UNKW ✓	UNKW ✓	UNKW ✓	UNKW ✓	UNKW ✓	UNKW ✓	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
TRANSMISSION	No indication ✓	NG	UNKW	UNKW	—	—	UNKW	UNKW	—	—	—	—
BCM	No indication ✓	NG	UNKW	UNKW	—	—	UNKW	—	UNKW	UNKW	CAN COMM CIRCUIT (U1000)	—
ABS	—	NG ✓	UNKW ✓	UNKW ✓	UNKW ✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication ✓	—	UNKW	UNKW	—	UNKW	—	—	—	—	CAN COMM CIRCUIT (U1000)	—

PKIC3636E

# CAN SYSTEM (TYPE 8)

[CAN]

## Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-144, "IPDM E/R Ignition Relay Circuit Check"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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)	—

PKIC3637E

## Case 12

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
BCM	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)	—

PKIC3638E

---

## CAN SYSTEM (TYPE 9)

PFP:23710

### Component Parts and Harness Connector Location

UKS001SD

Refer to [LAN-20, "Component Parts and Harness Connector Location"](#) .

### Schematic

UKS001RY

Refer to [LAN-21, "Schematic"](#) .

### Wiring Diagram — CAN —

UKS001RZ

Refer to [LAN-22, "Wiring Diagram — CAN —"](#) .

# CAN SYSTEM (TYPE 9)

[CAN]

UKS001RO

## CHECK SHEET

**NOTE:**

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

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—
BCM	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)	—

Symptoms :

Attach copy of  
SELECT SYSTEM

Attach copy of  
SELECT SYSTEM

Display control unit Translation Sheet: Rewrite the following names, and put a check mark on the above check sheet table.

Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	—
CAN CIRC 2	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

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

# CAN SYSTEM (TYPE 9)

[CAN]

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

PKIA8900E

# CAN SYSTEM (TYPE 9)

[CAN]

## CHECK SHEET RESULTS (EXAMPLE)

### NOTE:

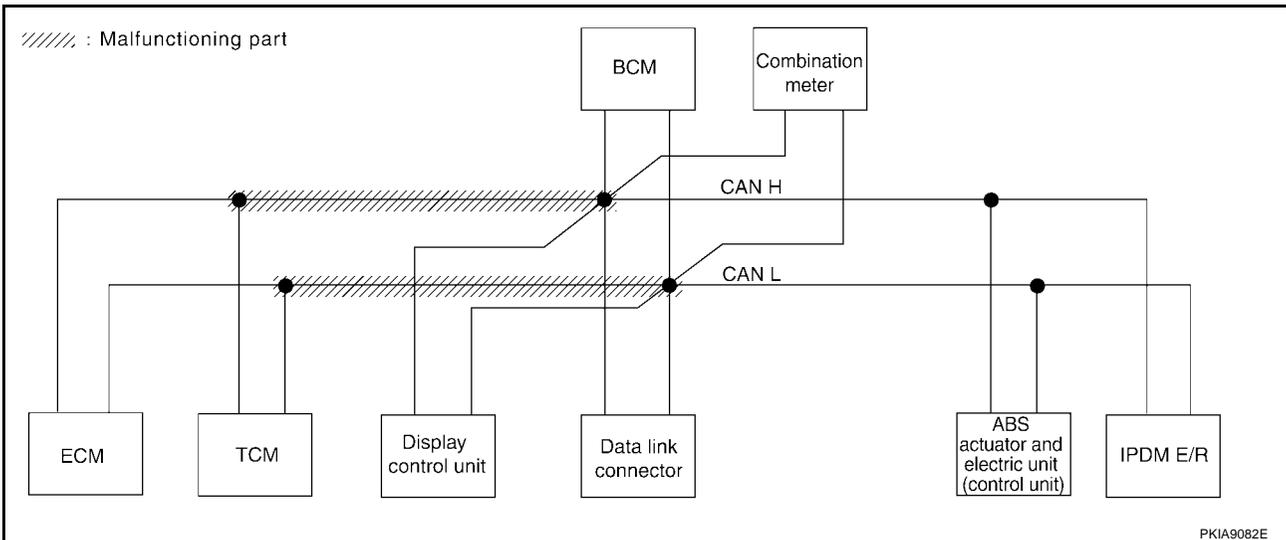
If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

### Case 1

Check harness between TCM and data link connector. Refer to [LAN-136, "Inspection Between TCM and Data Link Connector Circuit"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—
BCM	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)	—

PKIC3640E



# CAN SYSTEM (TYPE 9)

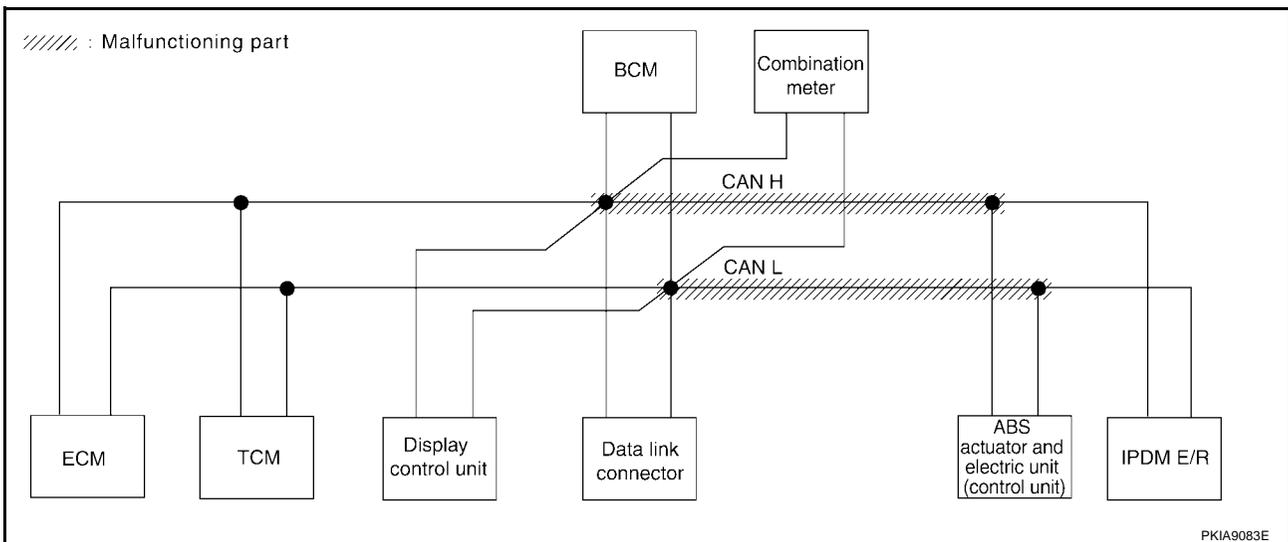
[CAN]

## Case 2

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—
BCM	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)	—

PKIC3641E



PKIA9083E

# CAN SYSTEM (TYPE 9)

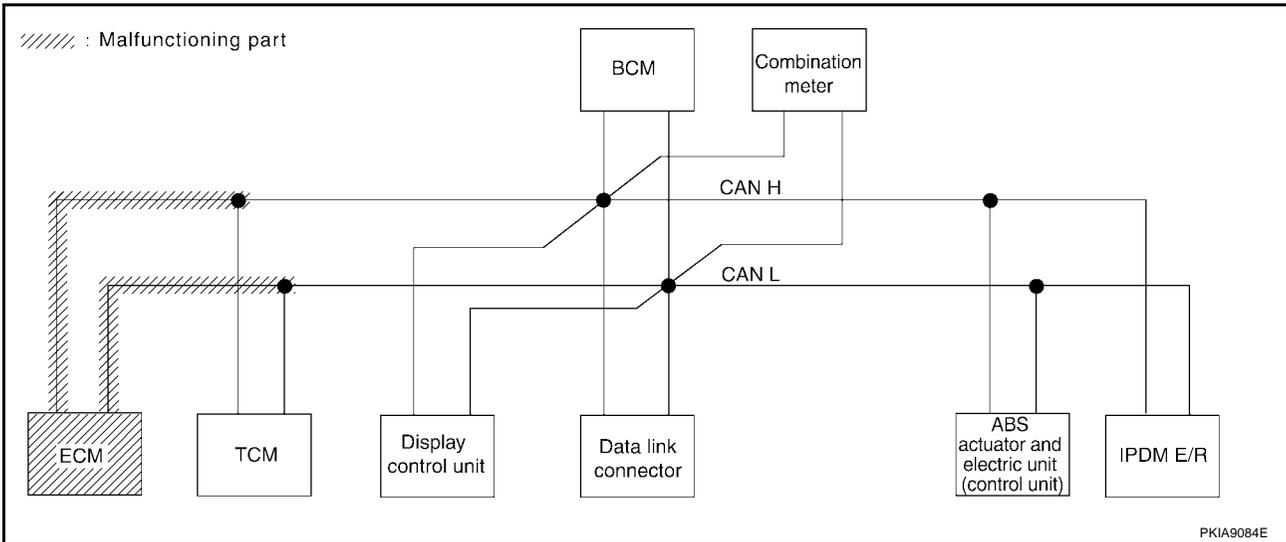
[CAN]

## Case 3

Check ECM circuit. Refer to [LAN-138, "ECM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	—	—	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	CAN COMM CIRCUIT (U1000) <sup>✓</sup>	CAN COMM CIRCUIT (U1001) <sup>✓</sup>				
TRANSMISSION	No indication	NG	UNKW <sup>✓</sup> N	—	—	—	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	—	—
Display control unit	—	NG	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	—	—
BCM	No indication	NG	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	—	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	CAN COMM CIRCUIT (U1000) <sup>✓</sup>	—
ABS	—	NG	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	—	—	—	CAN COMM CIRCUIT (U1000) <sup>✓</sup>	—
IPDM E/R	No indication	—	UNKW <sup>✓</sup> N	UNKW <sup>✓</sup> N	—	UNKW <sup>✓</sup> N	—	—	—	CAN COMM CIRCUIT (U1000) <sup>✓</sup>	—

PKIC3642E

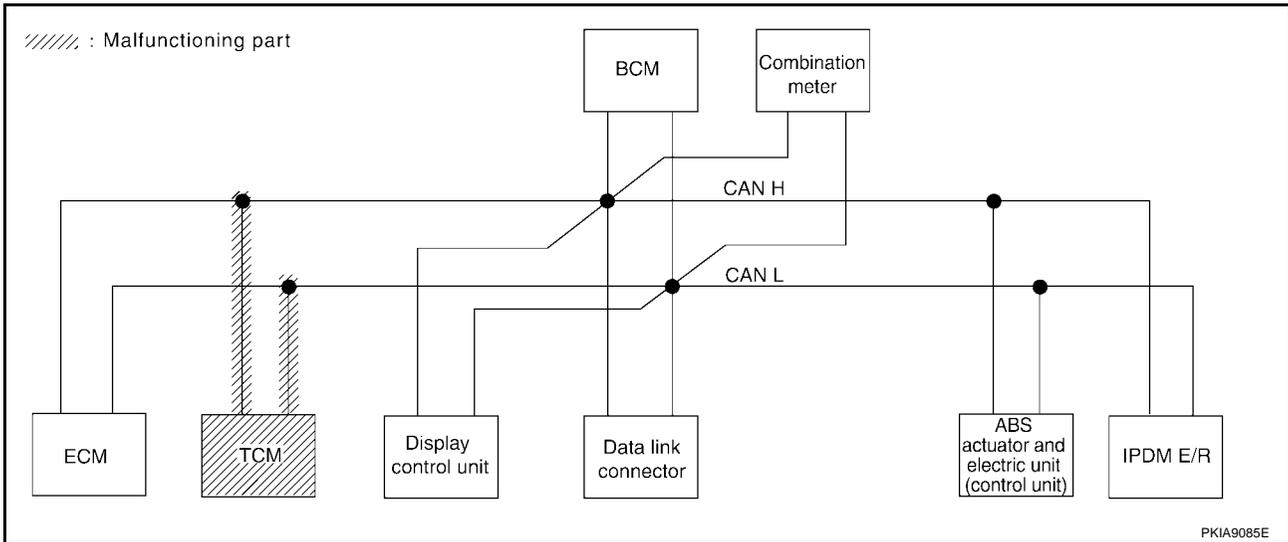


## Case 4

Check TCM circuit. Refer to [LAN-139, "TCM Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	✓	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓	CAN COMM CIRCUIT (U1001) ✓
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-
BCM	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)	-

PKIC3643E



# CAN SYSTEM (TYPE 9)

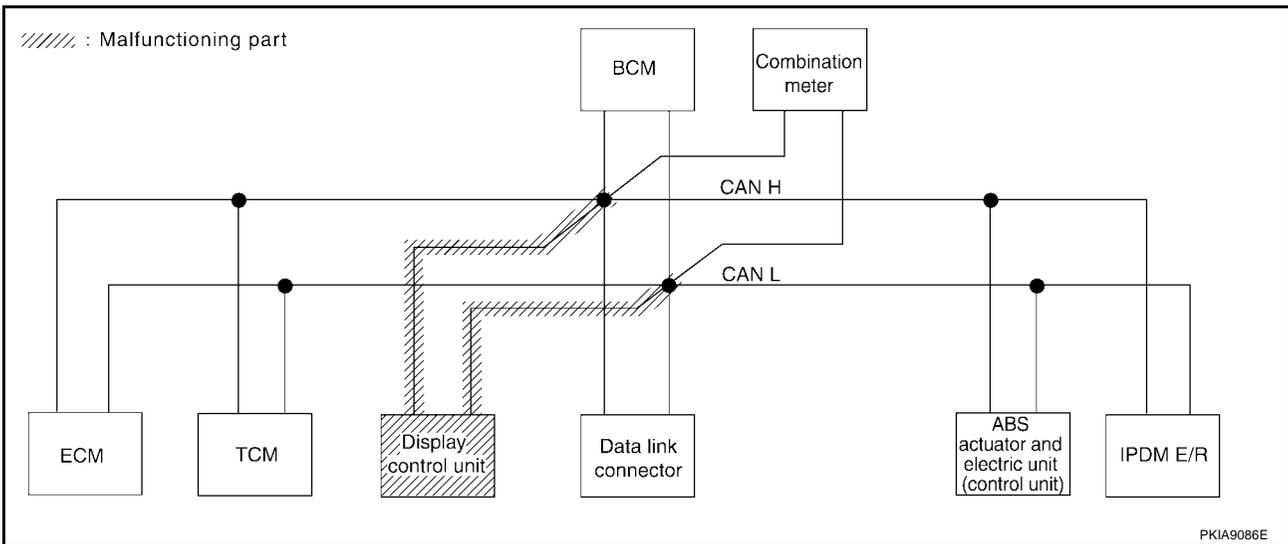
[CAN]

## Case 5

Check display control unit circuit. Refer to [LAN-139, "Display Control Unit Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	—
BCM	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)	—

PKIC3644E

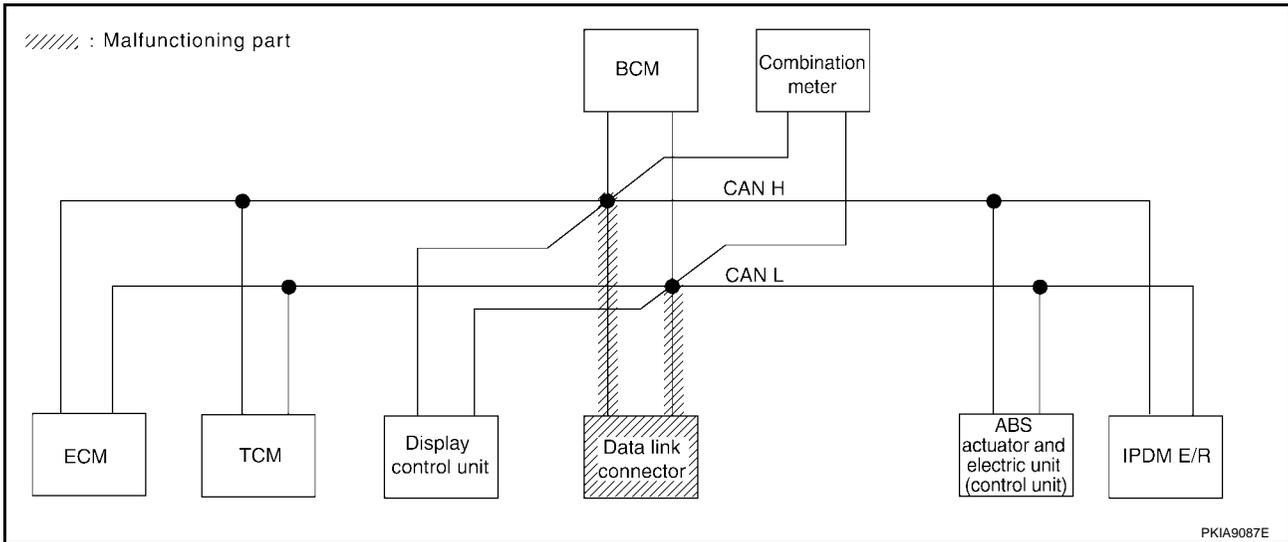


## Case 6

Check data link connector circuit. Refer to [LAN-140, "Data Link Connector Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-	-
BCM	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	UNKWN	-	CAN COMM CIRCUIT (U1000)	-

PKIC3645E

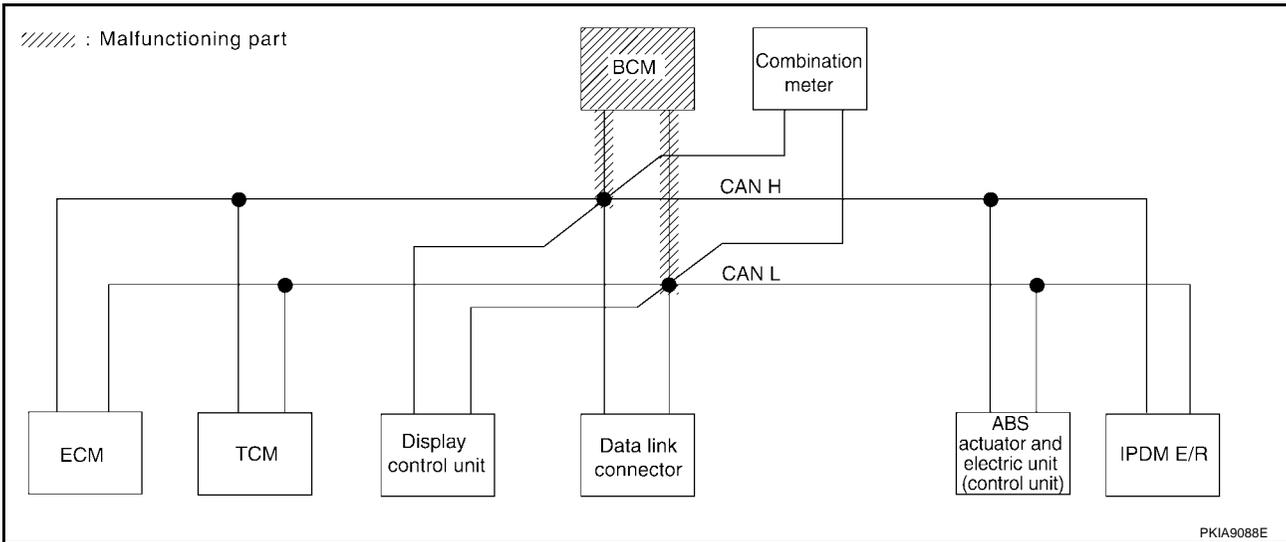


## Case 7

Check BCM circuit. Refer to [LAN-140, "BCM Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—
BCM	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)	—

PKIC3646E

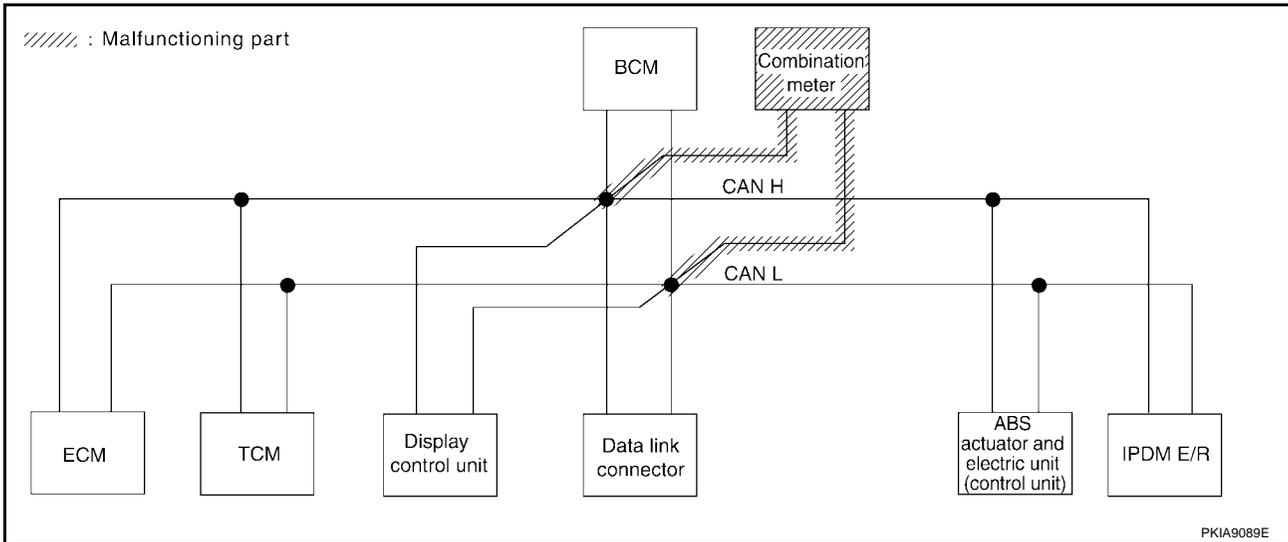


## Case 8

Check combination meter circuit. Refer to [LAN-141, "Combination Meter Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	✓	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) <span style="text-align: center;">✓</span>
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-
Display control unit	-	NG	UNKWN	UNKWN	-	UNKWN	✓	-	UNKWN	-	-
BCM	No indication	NG	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)	-

PKIC3647E

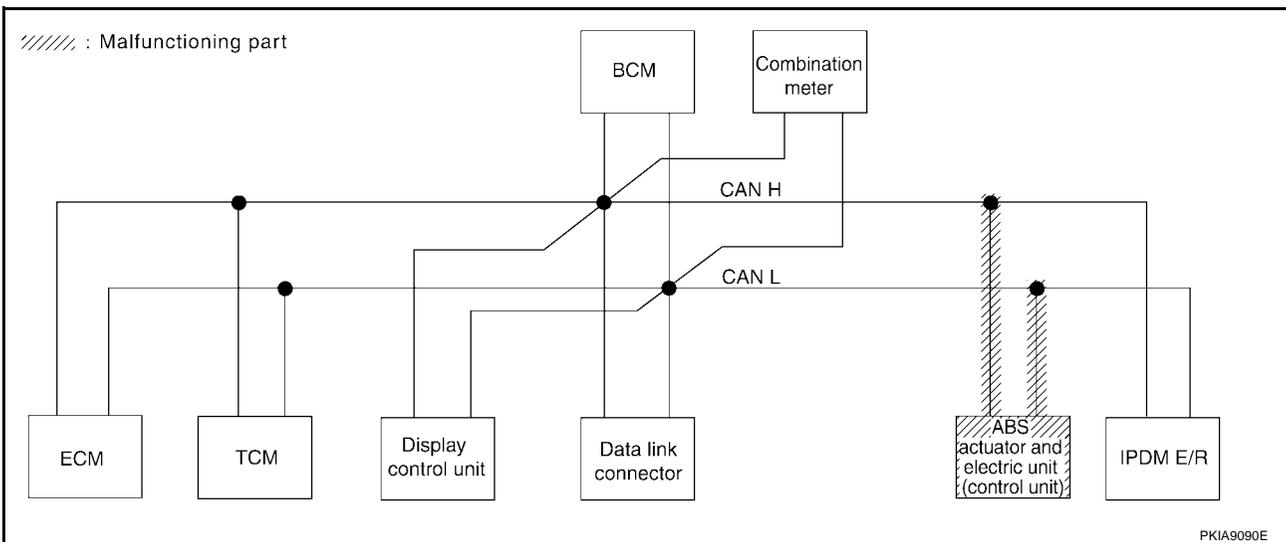


## Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-141, "ABS Actuator and Electric Unit \(Control Unit\) Circuit Inspection"](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	—	—
Display control unit	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	—	—
BCM	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)	—

PKIC3648E



# CAN SYSTEM (TYPE 9)

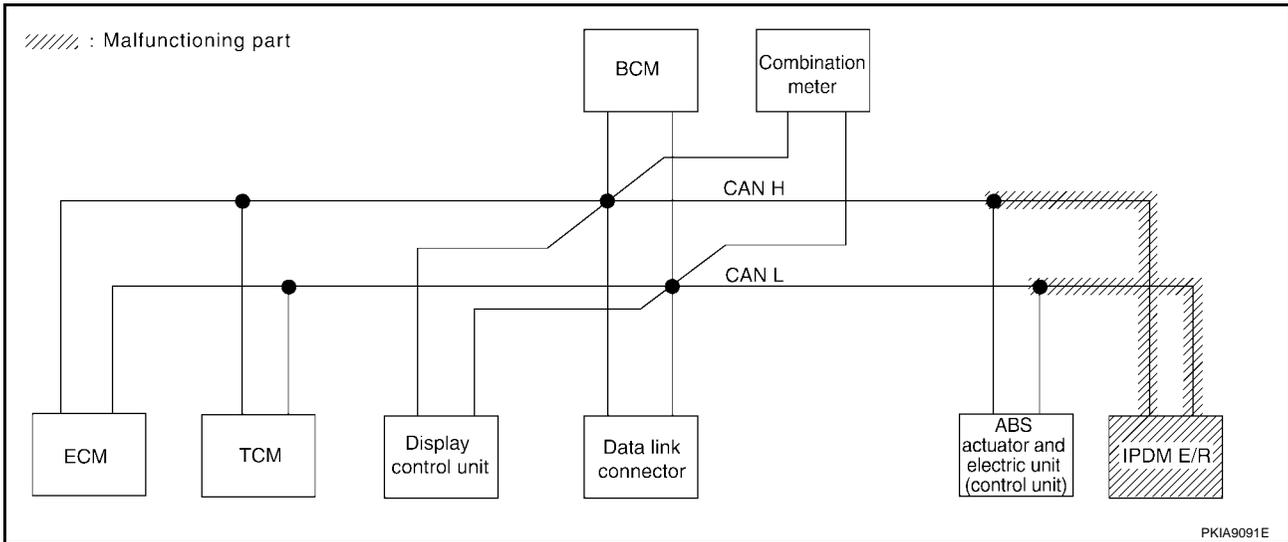
[CAN]

## Case 10

Check IPDM E/R circuit. Refer to [LAN-142, "IPDM E/R Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	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 (U1001) ✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	✓	—	—
BCM	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) ✓	—

PKIC3649E



## Case 11

Check CAN communication circuit. Refer to [LAN-143, "CAN Communication Circuit Inspection"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS		
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	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 (U1001) ✓
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	—	—
Display control unit	—	NG	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	—	—
BCM	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) ✓	—

PKIC3650E

# CAN SYSTEM (TYPE 9)

[CAN]

## Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to [LAN-144, "IPDM E/R Ignition Relay Circuit Check"](#) .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—
BCM	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)	—

PKIC3651E

## Case 13

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

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS	
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	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 (U1001)
TRANSMISSION	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
Display control unit	—	NG	UNKWN	UNKWN	—	UNKWN	UNKWN	—	UNKWN	—	—
BCM	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)	—

PKIC3652E

**TROUBLE DIAGNOSIS FOR SYSTEM**

**Inspection Between TCM and Data Link Connector Circuit**

**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

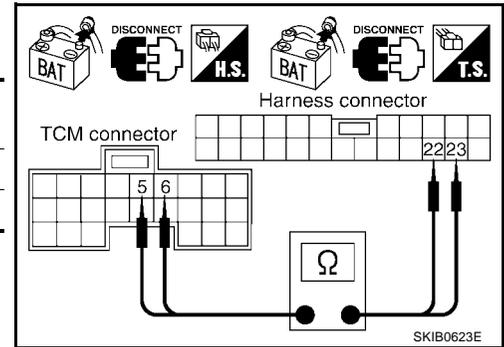
OK or NG

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

**2. CHECK HARNESS FOR OPEN CIRCUIT**

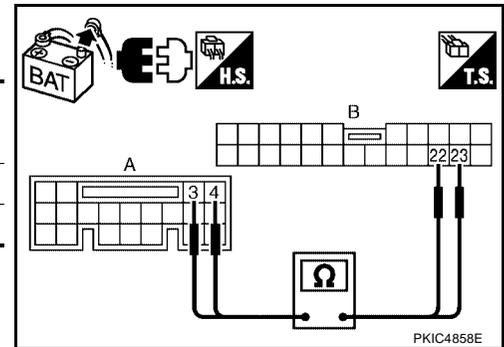
1. Disconnect TCM connector and harness connector F59.
2. Check the following.
  - 4A/T models
  - Check continuity between TCM harness connector and harness connector.

TCM connector	Terminal	Harness connector	Terminal	Continuity
F56	5	F59	23	Yes
	6		22	Yes



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

A		B		Continuity
Connector	Terminal	Connector	Terminal	
F56	3	F59	23	Yes
	4		22	Yes



OK or NG

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

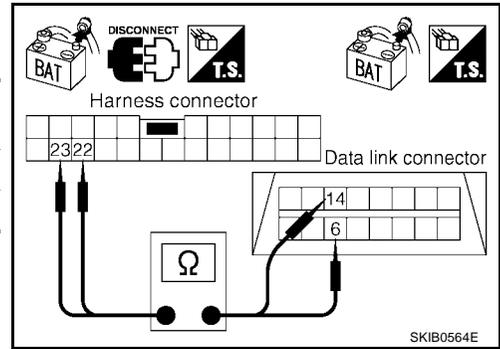
**3. CHECK HARNESS FOR OPEN CIRCUIT**

Check continuity between harness connector and data link connector.

Harness connector	Terminal	Data link connector	Terminal	Continuity
M71	23	M22	6	Yes
	22		14	Yes

OK or NG

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



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

UKS001SI

**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 M7
  - Harness connector E28

OK or NG

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

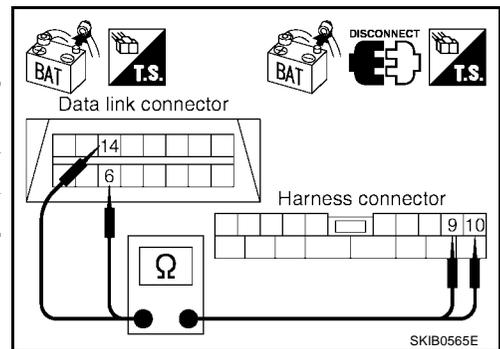
**2. CHECK HARNESS FOR OPEN CIRCUIT**

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

Data link connector	Terminal	Harness connector	Terminal	Continuity
M22	6	M7	10	Yes
	14		9	Yes

OK or NG

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



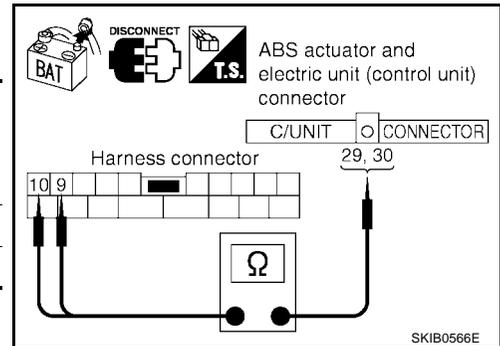
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

## 3. CHECK HARNESS FOR OPEN CIRCUIT

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

Harness connector	Terminal	ABS actuator and electric unit (control unit)	Terminal	Continuity
E28	10	E125	30	Yes
	9		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

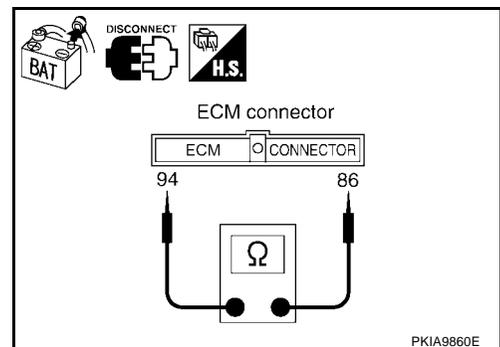
**OK or NG**

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

### 2. CHECK HARNESS FOR OPEN CIRCUIT

1. 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.

**TCM Circuit Inspection**

**1. CHECK CONNECTOR**

1. 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).

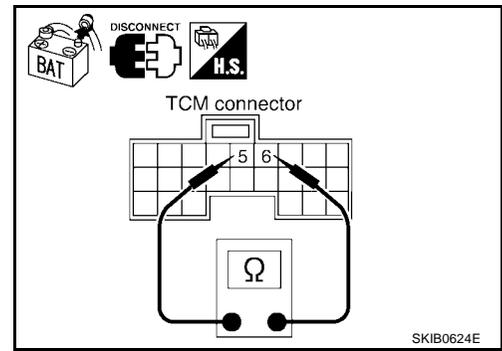
OK or NG

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

**2. CHECK HARNESS FOR OPEN CIRCUIT**

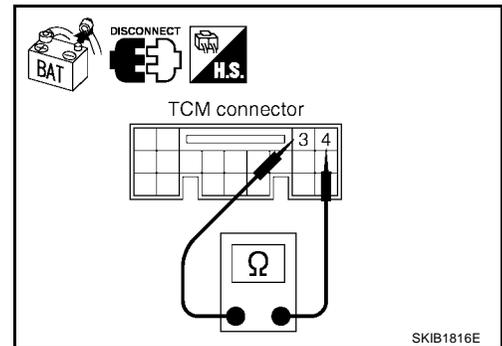
1. Disconnect TCM connector.
2. Check the following.
  - 4A/T models
  - Check resistance between TCM harness connector terminals.

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.

**Display Control Unit Circuit Inspection**

**1. CHECK CONNECTOR**

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

OK or NG

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

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

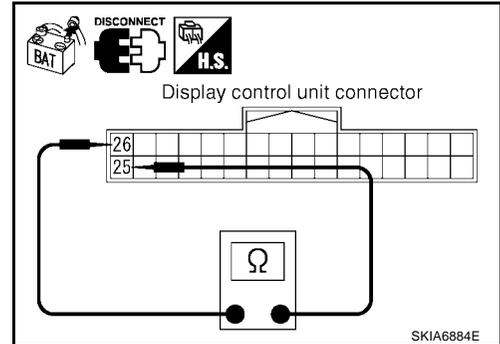
## 2. CHECK HARNESS FOR OPEN CIRCUIT

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

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

OK or NG

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



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.

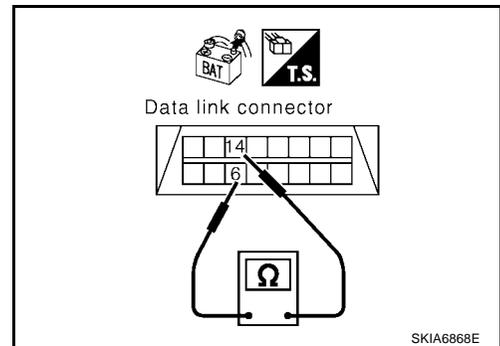
### 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

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

OK or NG

- OK >> Diagnose again. Refer to [LAN-5, "TROUBLE DIAGNOSES WORK FLOW"](#) .  
 NG >> Repair harness between data link connector and combination meter.



UKS001RH

## BCM Circuit Inspection

### 1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. 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.

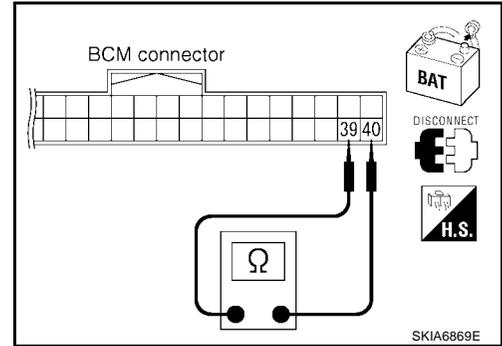
**2. CHECK HARNESS FOR OPEN CIRCUIT**

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.



UKS001RG

**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.

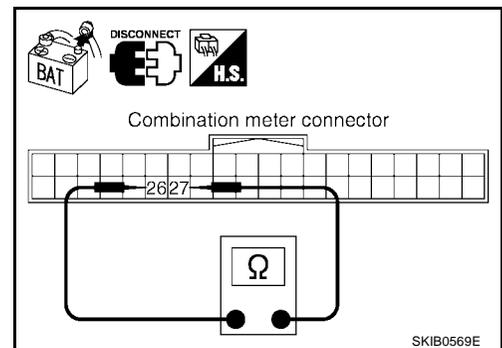
**2. CHECK HARNESS FOR OPEN CIRCUIT**

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

Combination meter connector	Terminal		Resistance (approx.)
M24	26	27	54 – 66 Ω

**OK or NG**

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



UKS001RJ

**ABS Actuator and Electric Unit (Control Unit) Circuit Inspection**

**1. CHECK CONNECTOR**

1. 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.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LAN  
L  
M

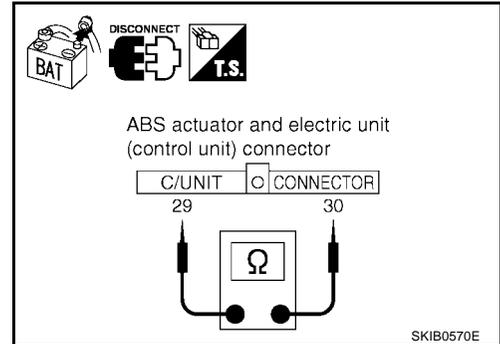
**2. CHECK HARNESS FOR OPEN CIRCUIT**

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

ABS actuator and electric unit (control unit) connector	Terminal		Resistance (approx.)
	29	30	
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.



SKIB0570E

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.

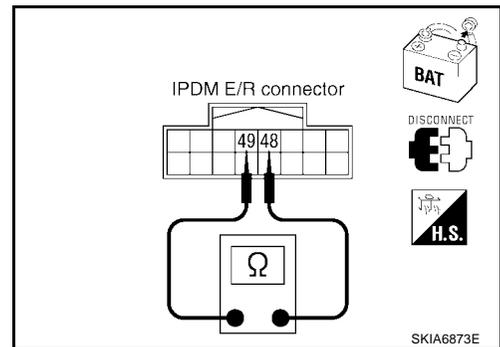
**2. CHECK HARNESS FOR OPEN CIRCUIT**

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

IPDM E/R connector	Terminal		Resistance (approx.)
	48	49	
E121	48	49	108 – 132 Ω

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.



SKIA6873E

## CAN Communication Circuit Inspection

### 1. CHECK CONNECTOR

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

OK or NG

- OK >> GO TO 2.  
 NG >> Repair or replace as necessary.

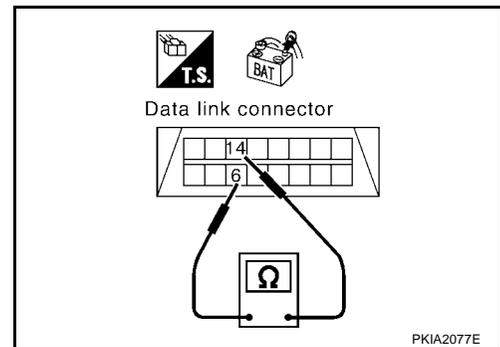
### 2. CHECK HARNESS FOR SHORT CIRCUIT

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



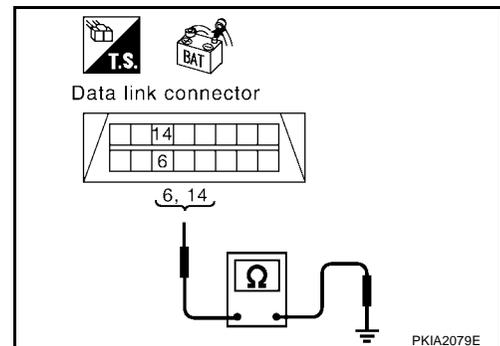
### 3. CHECK HARNESS FOR SHORT CIRCUIT

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

Data link connector	Terminal	Ground	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.



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

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

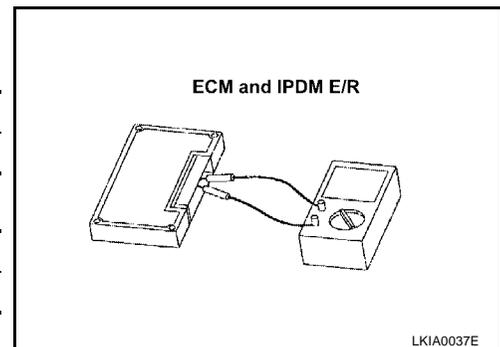
Terminal	Terminal	Resistance (Approx.)
94	86	108 – 132 Ω

3. Check resistance between IPDM E/R terminals.

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

OK or NG

- OK >> GO TO 5.  
 NG >> Replace ECM and/or IPDM E/R.



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L  
M

LAN

---

## 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.

1. 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 [PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#) .