SECTION LAN

LAN SYSTEM

CONTENTS

CAN

PRECAUTIONS 3
Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER” 3
Precautions When Using CONSULT-II 3
CHECK POINTS FOR USING CONSULT-II 3
Precautions For Trouble Diagnosis 3
CAN SYSTEM 3
Precautions For Harness Repair 3
CAN SYSTEM 3
TROUBLE DIAGNOSES WORK FLOW 5
When Displaying CAN Communication System Errors 5
WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM 5
WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM 5
TROUBLE DIAGNOSIS FLOW CHART 6
Diagnosis Procedure 7
SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE) 7
ACQUISITION OF DATA BY CONSULT-II 8
HOW TO USE CHECK SHEET TABLE 9
CAN Diagnostic Support Monitor 15
DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR ECM 15
DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TCM 16
DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR NAVI CONTROL UNIT 17
DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR DIFFERENTIAL LOCK CONTROL UNIT 18
DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR FRONT AIR CONTROL 19
DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR BCM 20
DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TRANSFER CONTROL UNIT 21
DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) 21
DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR IPDM E/R 22
CAN COMMUNICATION 23
System Description 23
Component Parts and Harness Connector Location 23
LHD MODELS 23
RHD MODELS 24
Schematic 25
Wiring Diagram — CAN — 26
CAN Communication Unit 30
TYPE 1/ TYPE 2/ TYPE 3 32
TYPE 4/ TYPE 5 34
TYPE 6/ TYPE 7/ TYPE 8/ TYPE 9/ TYPE 10/ TYPE 11/ TYPE 16/ TYPE 17 36
TYPE 12/ TYPE 13/ TYPE 14/ TYPE 15 40
CAN SYSTEM (TYPE 1) 44
Component Parts and Harness Connector Location 44
Schematic 44
Wiring Diagram — CAN — 44
Check Sheet 45
CHECK SHEET RESULTS (EXAMPLE) 47
CAN SYSTEM (TYPE 2) 56
Component Parts and Harness Connector Location 56
Schematic 56
Wiring Diagram — CAN — 56
Check Sheet 57
CHECK SHEET RESULTS (EXAMPLE) 59
CAN SYSTEM (TYPE 3) 68
Component Parts and Harness Connector Location 68
Schematic 68
Wiring Diagram — CAN — 68
Check Sheet 69
CHECK SHEET RESULTS (EXAMPLE) 71
CAN SYSTEM (TYPE 4) 82
Component Parts and Harness Connector Location 82
Schematic 82

Wiring Diagram — CAN — 82
Check Sheet 83
CHECK SHEET RESULTS (EXAMPLE) 85
CAN SYSTEM (TYPE 5) 96
Component Parts and Harness Connector Location.. 96
Schematic 96
Wiring Diagram — CAN — 96
Check Sheet 97
CHECK SHEET RESULTS (EXAMPLE) 99
CAN SYSTEM (TYPE 6) 112
Component Parts and Harness Connector Location 112
Schematic 112
Wiring Diagram — CAN — 112
Check Sheet 113
CHECK SHEET RESULTS (EXAMPLE) 115
CAN SYSTEM (TYPE 7) 125
Component Parts and Harness Connector Location 125
Schematic 125
Wiring Diagram — CAN — 125
Check Sheet 126
CHECK SHEET RESULTS (EXAMPLE) 128
CAN SYSTEM (TYPE 8) 139
Component Parts and Harness Connector Location 139
Schematic 139
Wiring Diagram — CAN — 139
Check Sheet 140
CHECK SHEET RESULTS (EXAMPLE) 142
CAN SYSTEM (TYPE 9) 152
Component Parts and Harness Connector Location 152
Schematic 152
Wiring Diagram — CAN — 152
Check Sheet 153
CHECK SHEET RESULTS (EXAMPLE) 155
CAN SYSTEM (TYPE 10) 166
Component Parts and Harness Connector Location 166
Schematic 166
Wiring Diagram — CAN — 166
Check Sheet 167
CHECK SHEET RESULTS (EXAMPLE) 169
CAN SYSTEM (TYPE 11) 181
Component Parts and Harness Connector Location 181
Schematic 181
Wiring Diagram — CAN — 181
Check Sheet 182
CHECK SHEET RESULTS (EXAMPLE) 185
CAN SYSTEM (TYPE 12) 198
Component Parts and Harness Connector Location 198
Schematic 198
Wiring Diagram — CAN — 198
Check Sheet 199
CHECK SHEET RESULTS (EXAMPLE) 201
CAN SYSTEM (TYPE 13) 213
Component Parts and Harness Connector Location 213
Schematic 213
Wiring Diagram — CAN — 213
Check Sheet 214
CHECK SHEET RESULTS (EXAMPLE) 217
CAN SYSTEM (TYPE 14) 230
Component Parts and Harness Connector Location 230
Schematic 230
Wiring Diagram — CAN — 230
Check Sheet 231
CHECK SHEET RESULTS (EXAMPLE) 234
CAN SYSTEM (TYPE 15) 248
Component Parts and Harness Connector Location 248
Schematic 248
Wiring Diagram — CAN — 248
Check Sheet 249
CHECK SHEET RESULTS (EXAMPLE) 252
CAN SYSTEM (TYPE 16) 267
Component Parts and Harness Connector Location 267
Schematic 267
Wiring Diagram — CAN — 267
Check Sheet 268
CHECK SHEET RESULTS (EXAMPLE) 270
CAN SYSTEM (TYPE 17) 279
Component Parts and Harness Connector Location 279
Schematic 279
Wiring Diagram — CAN — 279
Check Sheet 280
CHECK SHEET RESULTS (EXAMPLE) 282
TROUBLE DIAGNOSIS FOR SYSTEM 292
Inspection Between TCM and Data Link Connector Circuit 292
Inspection Between TCM and NAVI Control Unit Circuit 293
Inspection Between NAVI Control Unit and Data Link Connector Circuit 295
Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit ... 296
ECM Circuit Inspection for M/T Models 297
ECM Circuit Inspection for A/T Models 298
TCM Circuit Inspection 298
NAVI Control Unit Circuit Inspection 299
Differential Lock Control Unit Circuit Inspection ... 299
Front Air Control Circuit Inspection 300
Data Link Connector Circuit Inspection 300
BCM Circuit Inspection 301
Combination Meter Circuit Inspection 301
Transfer Control Unit Circuit Inspection 302
ABS Actuator and Electric Unit (Control Unit) Circuit Inspection 302
IPDM E/R Circuit Inspection 303
CAN Communication Circuit Inspection 303
IPDM E/R Ignition Relay Circuit Inspection 304

PRECAUTIONS

PFP:00001

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

EKS00Q9Y

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. 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

EKS00LBE

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

EKS00LBF

CAN SYSTEM

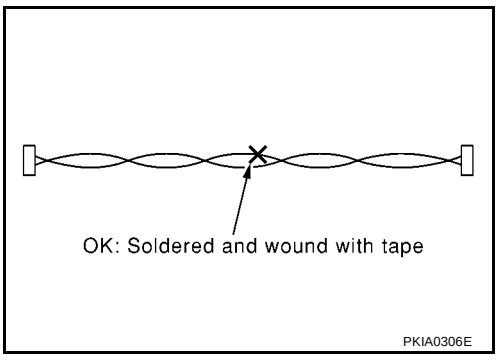
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch off and disconnect negative battery terminal before checking the circuit.

Precautions For Harness Repair

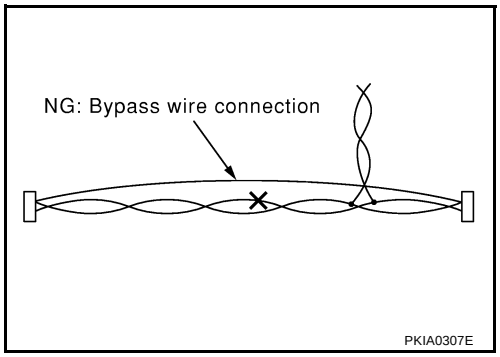
EKS00LBG

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

EKS00LBH

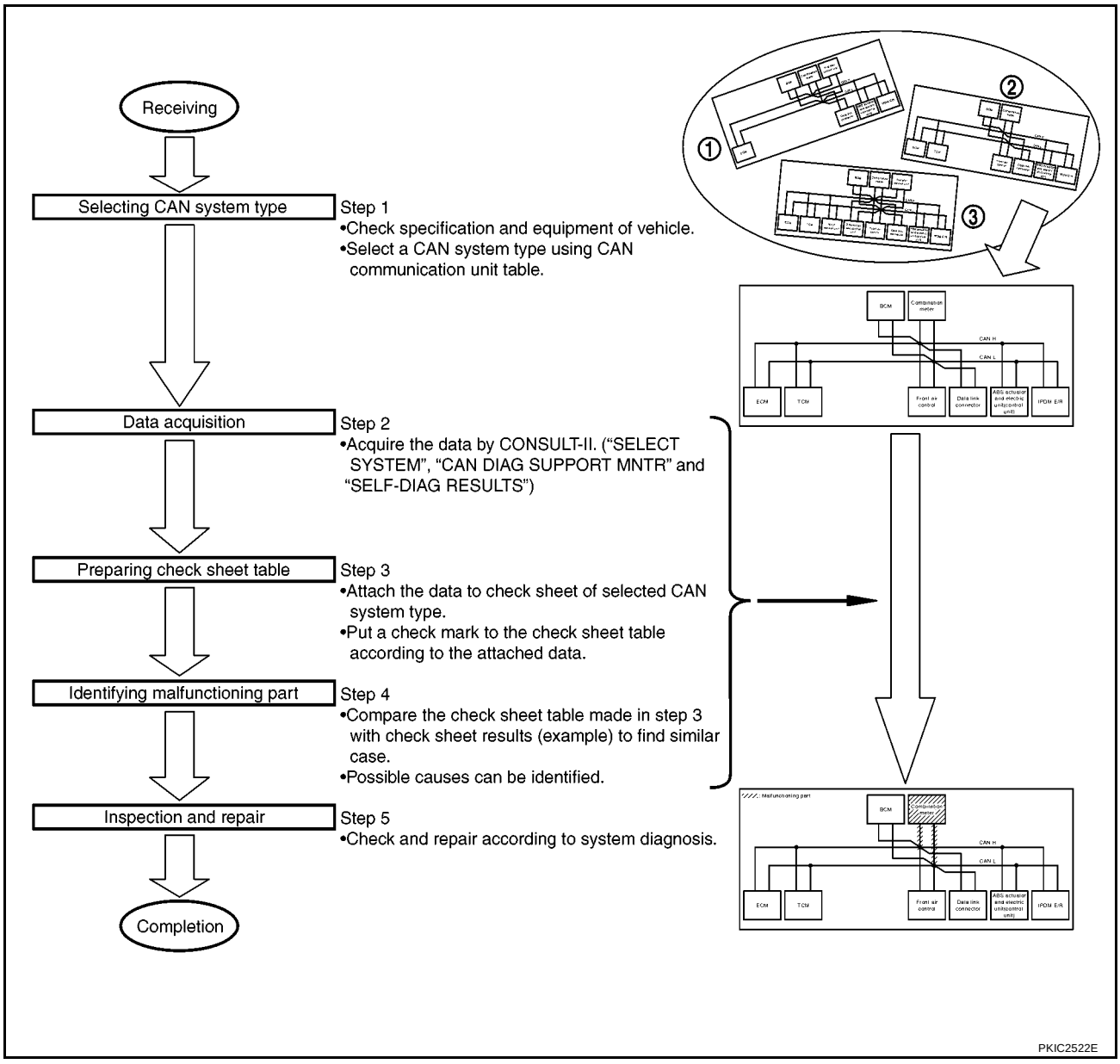
WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM

- 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.

TROUBLE DIAGNOSIS FLOW CHART



- 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 : Check and repair according to system diagnosis.

Diagnosis Procedure

EKS00LBI

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) Truck/2WD/YD25DDTi/AT/ABS/With automatic air conditioner/Without electronic locking rear differential/Without navigation system

CAN Communication Unit

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

Body type		Truck														
Axle		2WD						4WD								
Engine		YD25DDTi														
Transmission		M/T		A/T			M/T				A/T					
Brake control		ABS														
Automatic air conditioner			×	×	×	×			×	×	×	×	×	×	×	×
Electronic locking rear differential								×		×		×		×		×
Navigation system				×		×					×	×			×	×
CAN system type	LHD	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	RHD	–	–	–	–	–	16	17								
CAN system trouble diagnosis	LHD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	RHD	–	–	–	–	–	[illegible]	[illegible]								

×: Applicable

Check basic specification of the vehicle.

Select "×" if it is model with automatic air conditioner.

Select "×" if it is model with electronic locking rear differential.

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

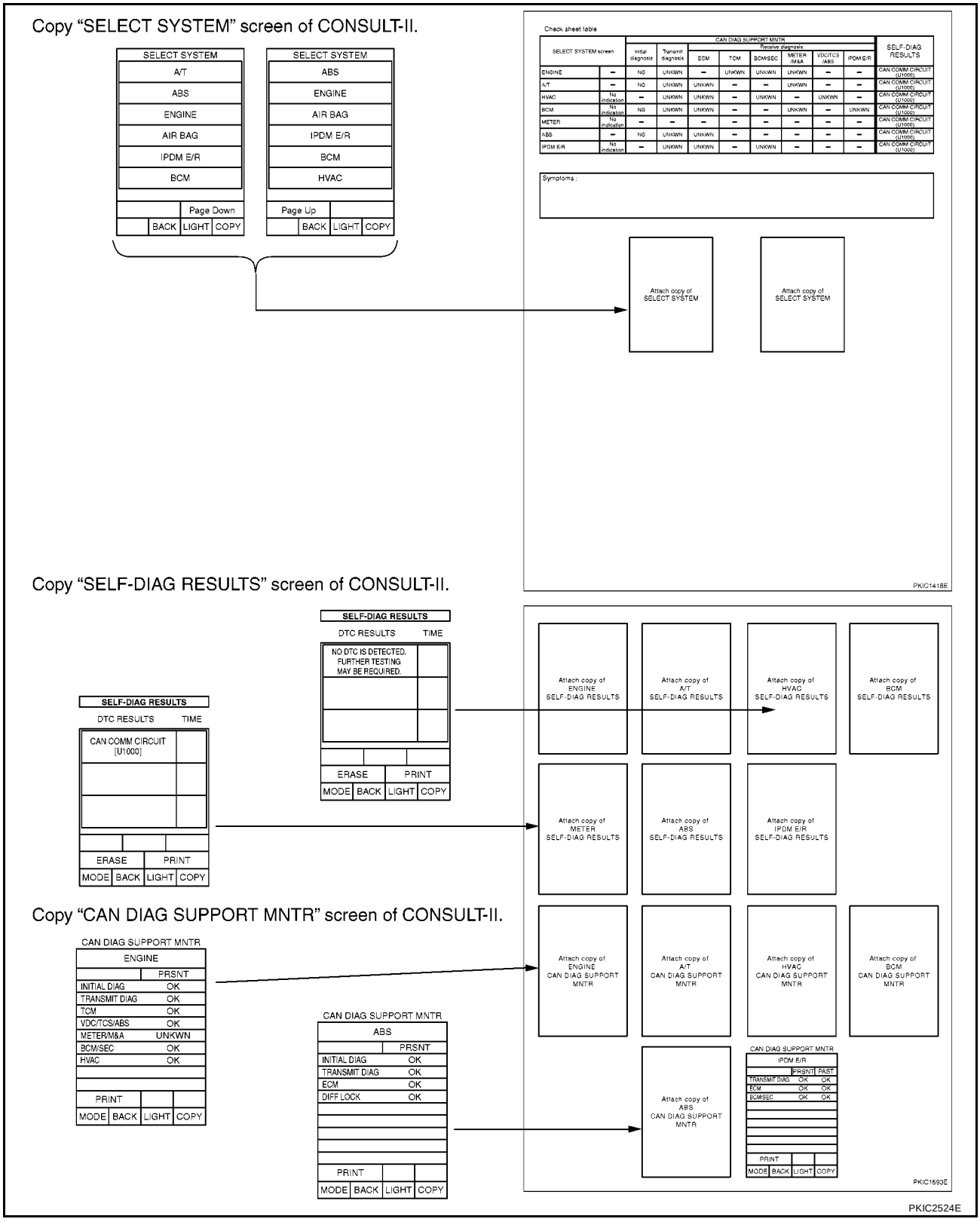
Which number is selected when sequentially selecting from the top of the specification table?
The number is "CAN system type" of the applicable vehicle.

In the case of this example:
It corresponds to type 4.

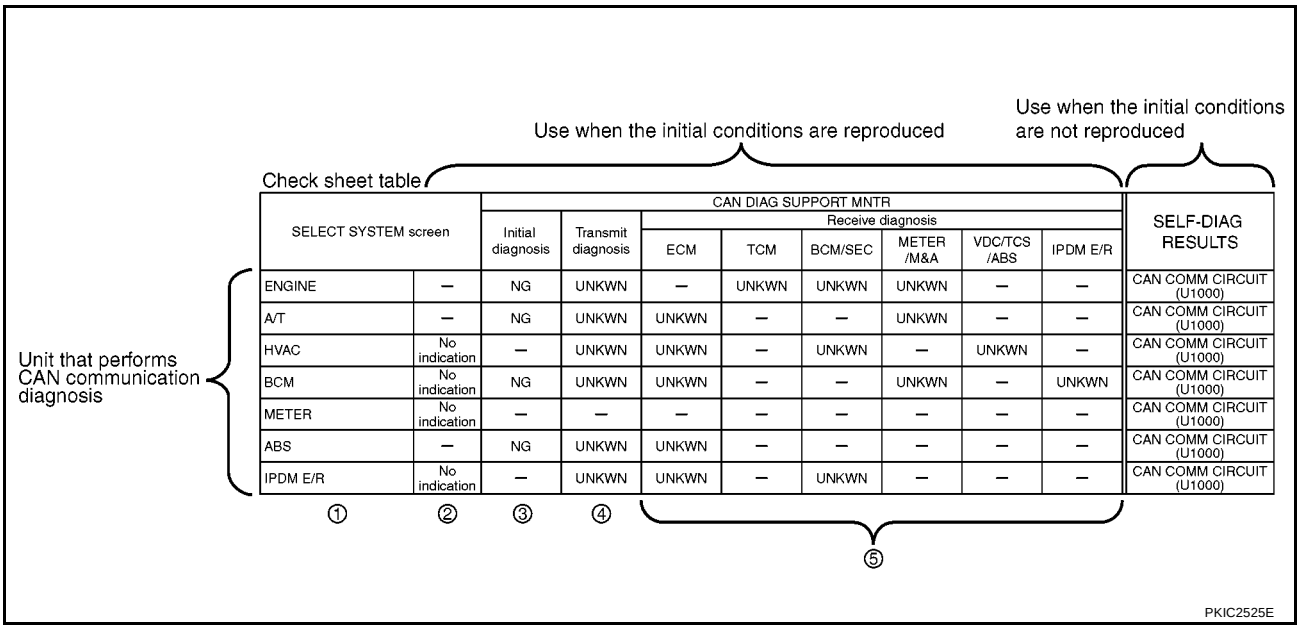
PKIC2523E

ACQUISITION OF DATA BY CONSULT-II

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



HOW TO USE CHECK SHEET TABLE

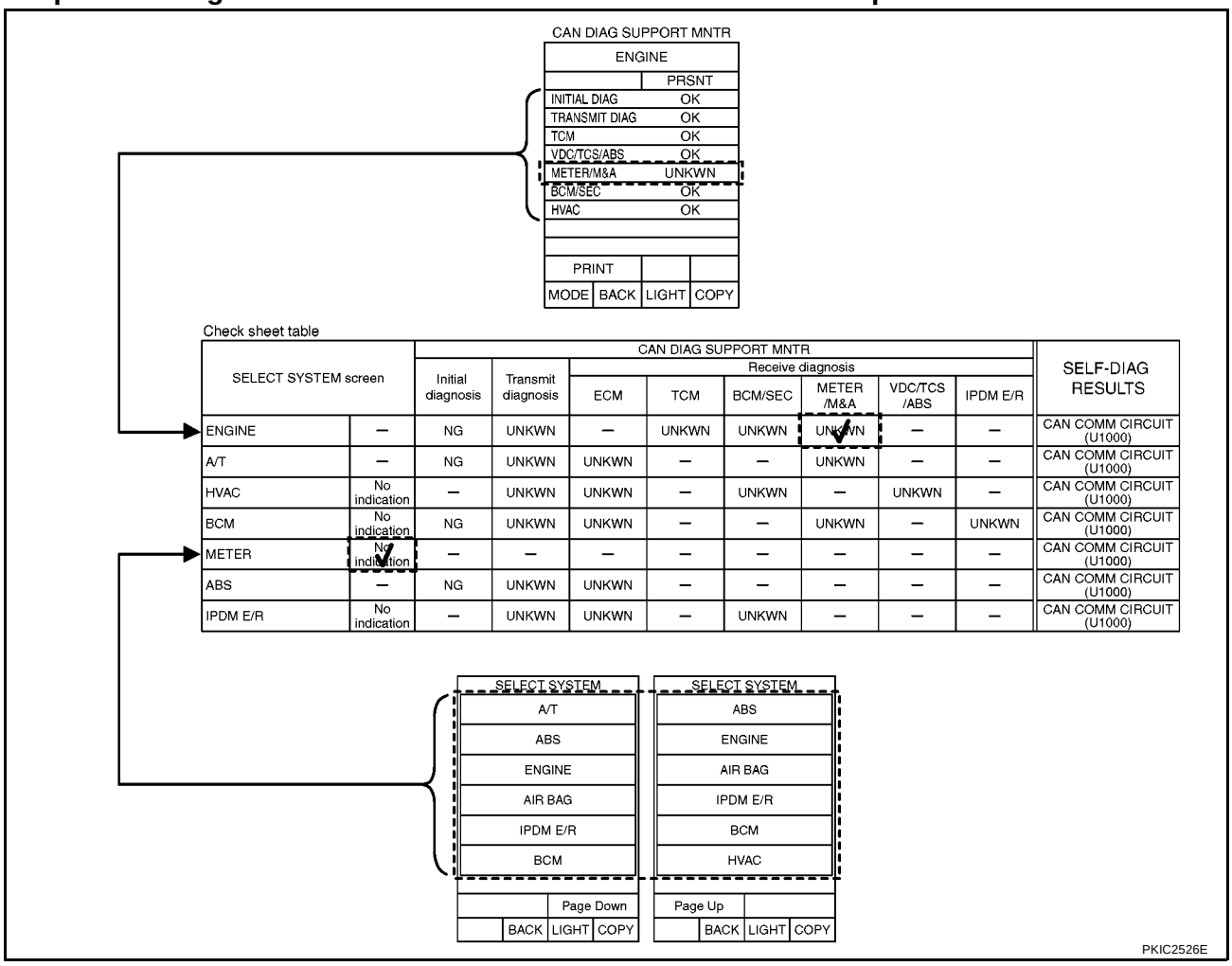


1. Unit names displayed on CONSULT-II
2. “No indication” : Put a check mark to it if the unit name described in step 1 is not displayed on “SELECT SYSTEM” screen of CONSULT-II. (Unit communicating with CONSULT-II via CAN communication line)
   “–” : Column not used (Unit communicating with CONSULT-II 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.
   “–” : Column not used (Transmit diagnosis is not performed.)
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" .

Example of Filling in Check Sheet When Initial Conditions Are Reproduced

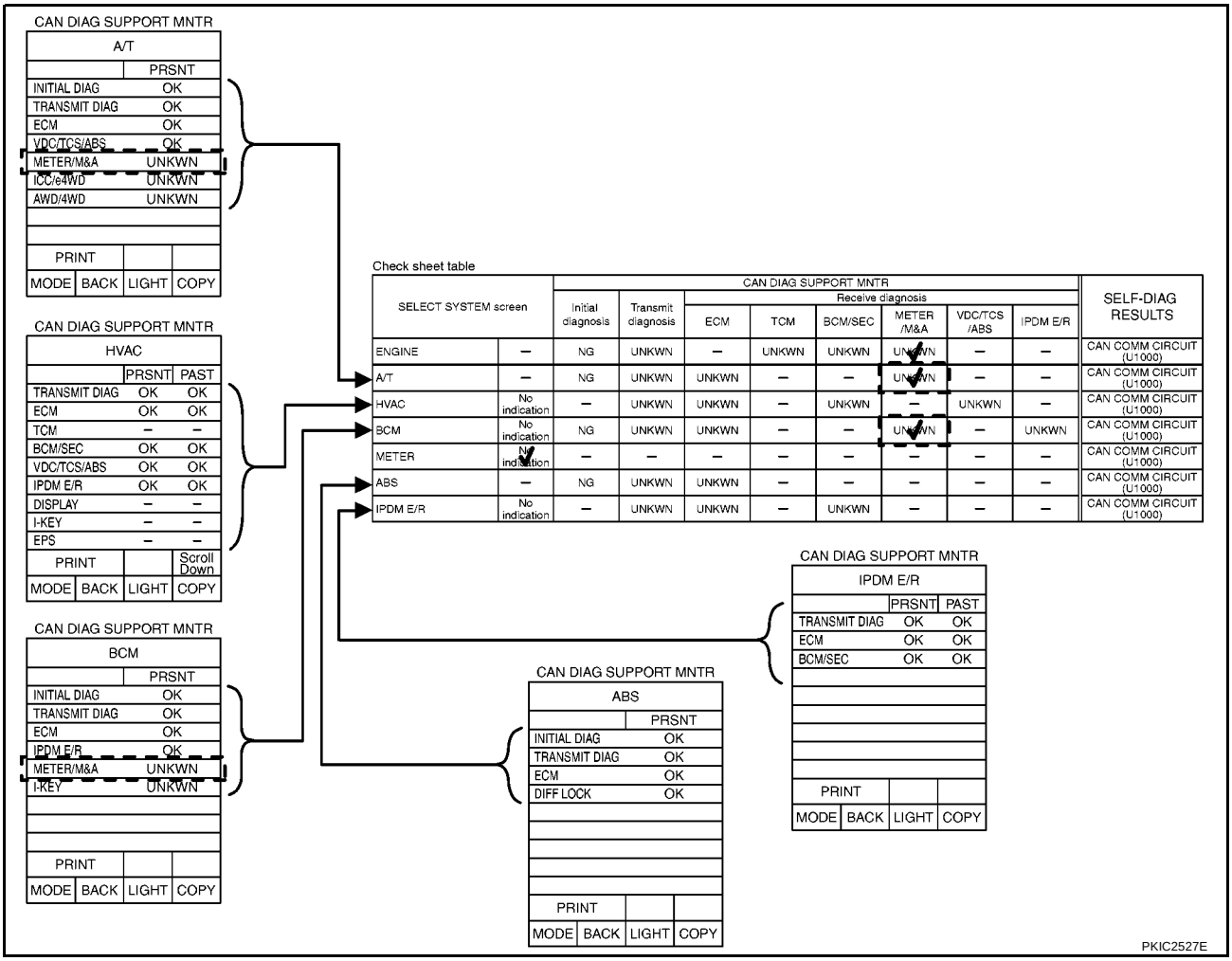


1. Put a check mark to “No indication” if some of unit names listed on the column of diagnosis system selection screen of a check sheet table are not displayed on “SELECT SYSTEM” screen attached to the check sheet.

   NOTE:
   Put a check mark to “No indication” of METER because METER is not displayed on “SELECT SYSTEM” screen.

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

   NOTE:
   In “CAN DIAG SUPPORT MNTR” screen, “UNKWN” is displayed on “METER/M&A”. Put a check mark to it.



3. Confirm the unit name that “UNKWN” is displayed on the copy of “CAN DIAG SUPPORT MNTR” screen of “A/T”, “HVAC”, “BCM”, “ABS” and “IPDM E/R” as well as “ENGINE”. And then, put a check mark to the check sheet table.

NOTE:

- For “A/T”, “UNKWN” is displayed on “METER/M&A”, “ICC/e4WD” and “AWD/4WD”. But put a check mark to “METER/M&A” because “UNKWN” is listed on the column of reception diagnosis of the check sheet table.
- For “HVAC”, “UNKWN” is not displayed. Do not put a check mark to it.
- For “BCM”, “UNKWN” is displayed on “METER/M&A” and “I-KEY”. But put a check mark to “METER/M&A” because “UNKWN” is listed on the column of reception diagnosis of the check sheet table.
- For “ABS”, “UNKWN” is not displayed. Do not put a check mark to it.
- For “IPDM E/R”, “UNKWN” is not displayed. Do not put a check mark to it.

The arranged results of CAN diagnosis support monitor

Check sheet table

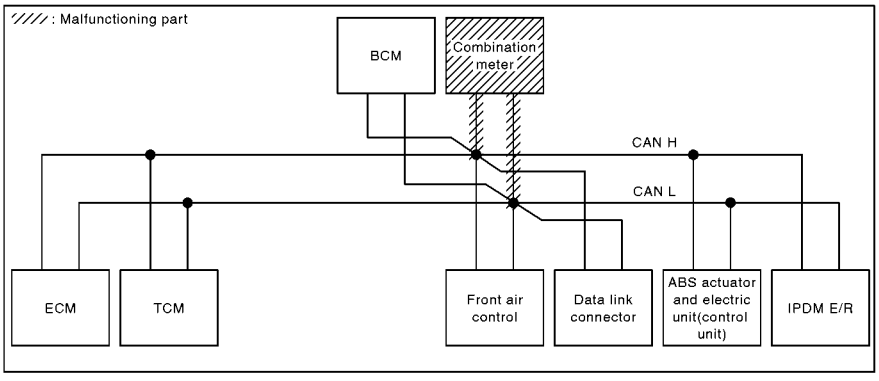
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM/SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	
ENGINE	–	NG	UNKWN	–	UNKWN	UNKWN	UNKWN ✓	–	–	CAN COMM CIRCUIT (U1000)
A/T	–	NG	UNKWN	UNKWN	–	–	UNKWN ✓	–	–	CAN COMM CIRCUIT (U1000)
HVAC	No indication	–	UNKWN	UNKWN	–	UNKWN	–	UNKWN	–	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	–	–	UNKWN ✓	–	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	–	–	–	–	–	–	–	–	CAN COMM CIRCUIT (U1000)
ABS	–	NG	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 8
Check combination meter circuit.

Check sheet results (example)

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	–	NG	UNKWN	–	UNKWN	UNKWN	UNKWN ✓	–	–	CAN COMM CIRCUIT (U1000) ✓
A/T	–	NG	UNKWN	UNKWN	–	–	UNKWN ✓	–	–	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	–	UNKWN	UNKWN	–	UNKWN	–	UNKWN	–	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	–	–	UNKWN ✓	–	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	–	–	–	–	–	–	–	–	CAN COMM CIRCUIT (U1000) ✓
ABS	–	NG	UNKWN	UNKWN	–	–	–	–	–	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	–	UNKWN	UNKWN	–	UNKWN	–	–	–	CAN COMM CIRCUIT (U1000)



PKIC2528E

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

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

Start CAN system trouble diagnosis if this procedure can be confirmed. Refer to LAN-30, "CAN Communication Unit" .

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	TCM	BCM/SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	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 [U1000]	1t

SYSTEM A/T

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	

SYSTEM HVAC

SELF-DIAG RESULTS

DTC RESULTS	TIME
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	

SYSTEM BCM

SELF-DIAG RESULTS

DTC RESULTS	TIME
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	

SYSTEM METER

SELF-DIAG RESULTS

DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	2

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
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	

PKIC2529E

1. See “SELF-DIAG RESULTS” of all units attached to the check sheet. If “CAN COMM CIRCUIT” or “CAN COMM CIRCUIT [U1000]” 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 [U1000]” is displayed. Put a check mark to it.
- For “A/T”, “CAN COMM CIRCUIT [U1000]” is displayed. Put a check mark to it.
- For “HVAC”, “NO DTC IS DETECTED” is displayed. Do not put a check mark to it.
- For “BCM”, “NO DTC IS DETECTED” is displayed. Do not put a check mark to it.
- For “METER”, “CAN COMM CIRCUIT [U1000]” is displayed. 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”, “NO DTC IS DETECTED” is displayed. Do not put a check mark to it.

The arranged results of self-diagnosis

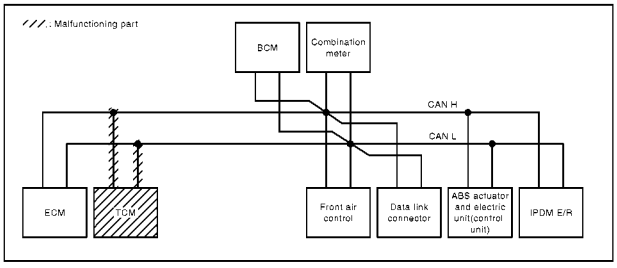
Check sheet table

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

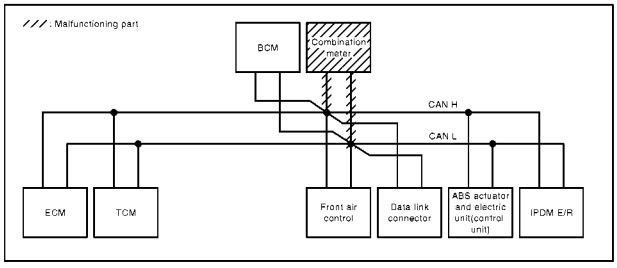
Case 4
Check TCM circuit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR: Initial diagnosis	Transmit diagnosis	Receive diagnosis: ECM	TCM	BCM/SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG RESULTS
ENGINE	–	NG	UNKWN	–	UNKWN	UNKWN	UNKWN	–	–	CAN COMM CIRCUIT (U1000)
A/T	–	NG	UNKWN	UNKWN	–	–	UNKWN	–	–	CAN COMM CIRCUIT (U1000)
HVAC	No indication	–	UNKWN	UNKWN	–	UNKWN	–	UNKWN	–	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	–	–	UNKWN	–	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	–	–	–	–	–	–	–	–	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 8
Check combination meter circuit.

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



PKIC2530E

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

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

CAN Diagnostic Support Monitor

EKS00LBJ

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR ECM

(Example)

CAN DIAG SUPPORT MNTR

ENGINE	
	PRSNT
INITIAL DIAG	OK
TRANSMIT DIAG	OK
TCM	OK
VDC/TCS/ABS	OK
METER/M&A	OK
BCM/SEC	OK
HVAC	OK
PRINT	

MODE | BACK | LIGHT | COPY

SKIB4863E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
ENGINE	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	TCM	Make sure of normal reception from TCM.	OK/UNKWN
	VDC/TCS/ABS	VDC/TCS/ABS is not diagnosed.	OK
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN
	HVAC	Make sure of normal reception from HVAC. (Not available for CAN system diagnosis.)	OK/UNKWN

Display Results (Present)

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

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR TCM

(Example)

CAN DIAG SUPPORT MNTR

A/T	
	PRSNT
INITIAL DIAG	OK
TRANSMIT DIAG	OK
ECM	OK
VDC/TCS/ABS	OK
METER/M&A	OK
ICC/e4WD	UNKWN
AWD/4WD	OK
PRINT	
MODE / BACK / LIGHT / COPY	

SKIB2335E

“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.	OK
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN
	ICC/e4WD	ICC/e4WD is not diagnosed.	UNKWN
	AWD/4WD	Make sure of normal reception from transfer control unit.	OK/UNKWN

Display Results (Present)

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

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

(Example)

CAN DIAG SUPPORT MNTR

MULTI AV		
	PRSNT	PAST
TRANSMIT DIAG	-	-
ECM	OK	OK
METER/M&A	OK	OK
BCM/SEC	-	-
HVAC	-	-
IPDM E/R	-	-
TIRE-P	-	-
PRINT		
MODE	BACK	LIGHT	COPY

SKIB4715E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
MULTI AV	TRANSMIT DIAG	TRANSMIT DIAG is not diagnosed.	–	OK/0/1~39/–
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/–	
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN/–	
	BCM/SEC	BCM/SEC is not diagnosed.	–	
	HVAC	HVAC is not diagnosed.	–	
	IPDM E/R	IPDM E/R is not diagnosed.	–	
	TIRE-P	TIRE-P 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

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR DIFFERENTIAL LOCK CONTROL UNIT

(Example)

CAN DIAG SUPPORT MNTR

DIFF LOCK	
	PRSNT
INITIAL DIAG	OK
TRANSMIT DIAG	OK
ECM	OK
VDC/TCS/ABS	OK
AWD/4WD	OK
PRINT	
MODE BACK LIGHT COPY	

PKIB7196E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
DIFF LOCK	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
	AWD/4WD	Make sure of normal reception from transfer control unit.	OK/UNKWN

Display Results (Present)

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

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR FRONT AIR CONTROL

(Example)

CAN DIAG SUPPORT MNTR

HVAC		
	PRSNT	PAST
TRANSMIT DIAG	OK	OK
ECM	OK	OK
TCM	–	–
BCM/SEC	OK	OK
VDC/TCS/ABS	OK	OK
IPDM E/R	OK	OK
DISPLAY	–	–
I-KEY	–	–
EPS	–	–
PRINT		Scroll Down
MODE	BACK	LIGHT	COPY

CAN DIAG SUPPORT MNTR

HVAC		
	PRSNT	PAST
IPDM E/R	OK	OK
DISPLAY	–	–
I-KEY	–	–
EPS	–	–
AWD/4WD	–	–
e4WD	–	–
ICC	–	–
LANE KEEP	–	–
TIRE-P	–	–
PRINT	Scroll Up	
MODE	BACK	LIGHT	COPY

PKIC2531E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present	Past
HVAC	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/–	OK/0/1~39/–
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/–	
	TCM	TCM is not diagnosed.	–	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/–	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/–	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/–	
	DISPLAY	DISPLAY is not diagnosed.	–	
	I-KEY	I-KEY is not diagnosed.	–	
	EPS	EPS is not diagnosed.	–	
	AWD/4WD	AWD/4WD is not diagnosed.	–	
	e4WD	e4WD is not diagnosed.	–	
	ICC	ICC is not diagnosed.	–	
	LANE KEEP	LANE KEEP is not diagnosed.	–	
	TIRE-P	TIRE-P 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

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	UNKWN
PRINT	
MODE BACK LIGHT COPY	

PKIC2532E

“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.	UNKWN

Display Results (Present)

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

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

(Example)

CAN DIAG SUPPORT MNTR

ALL MODE AWD/4WD	
	PRSNT
INITIAL DIAG	OK
TRANSMIT DIAG	OK
ECM	OK
VDC/TCS/ABS	OK
TCM	OK
METER/M&A	OK
PRINT	
MODE BACK LIGHT COPY	

PKIC2594E

“SELECT SYSTEM” screen	“CAN DIAG SUPPORT MNTR” screen	Description	Present
ALL MODE AWD/ 4WD	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
	TCM	Make sure of normal reception from TCM.	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.

DESCRIPTION OF “CAN DIAG SUPPORT MNTR” SCREEN FOR ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

(Example)

CAN DIAG SUPPORT MNTR

ABS	
	PRSNT
INITIAL DIAG	OK
TRANSMIT DIAG	OK
ECM	OK
DIFF LOCK	OK
PRINT	
MODE BACK LIGHT COPY	

PKIC2533E

“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
	DIFF LOCK	DIFF LOCK 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 IPDM E/R

(Example)

CAN DIAG SUPPORT MNTR

IPDM E/R		
	PRSNT	PAST
TRANSMIT DIAG	OK	OK
ECM	OK	OK
BCM/SEC	OK	OK
PRINT		
MODE / BACK	LIGHT	COPY

SKIB0595E

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

Display Results (Present)

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

Display Results (Past)

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

CAN COMMUNICATION

PFP:23710

System Description

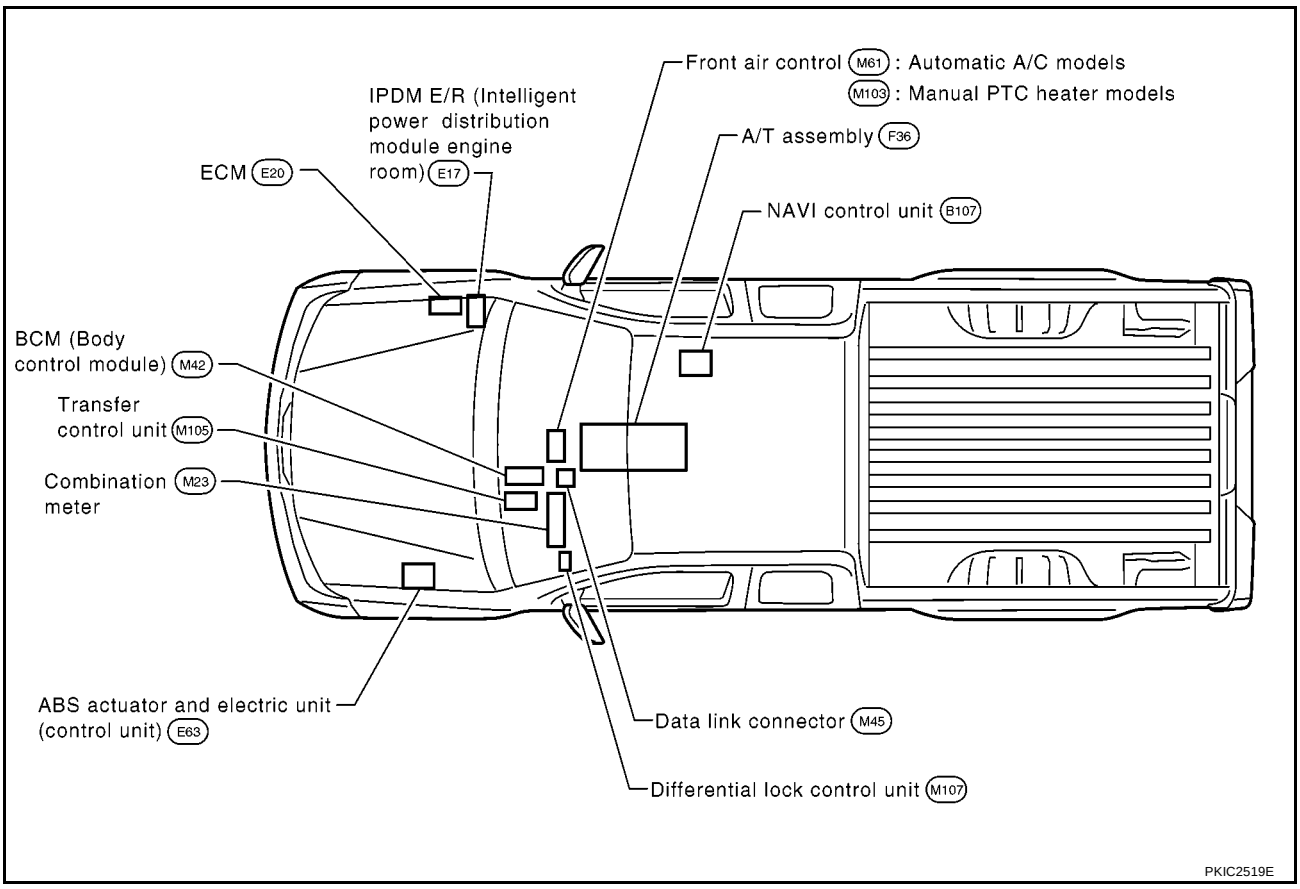
EKS00PDP

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.

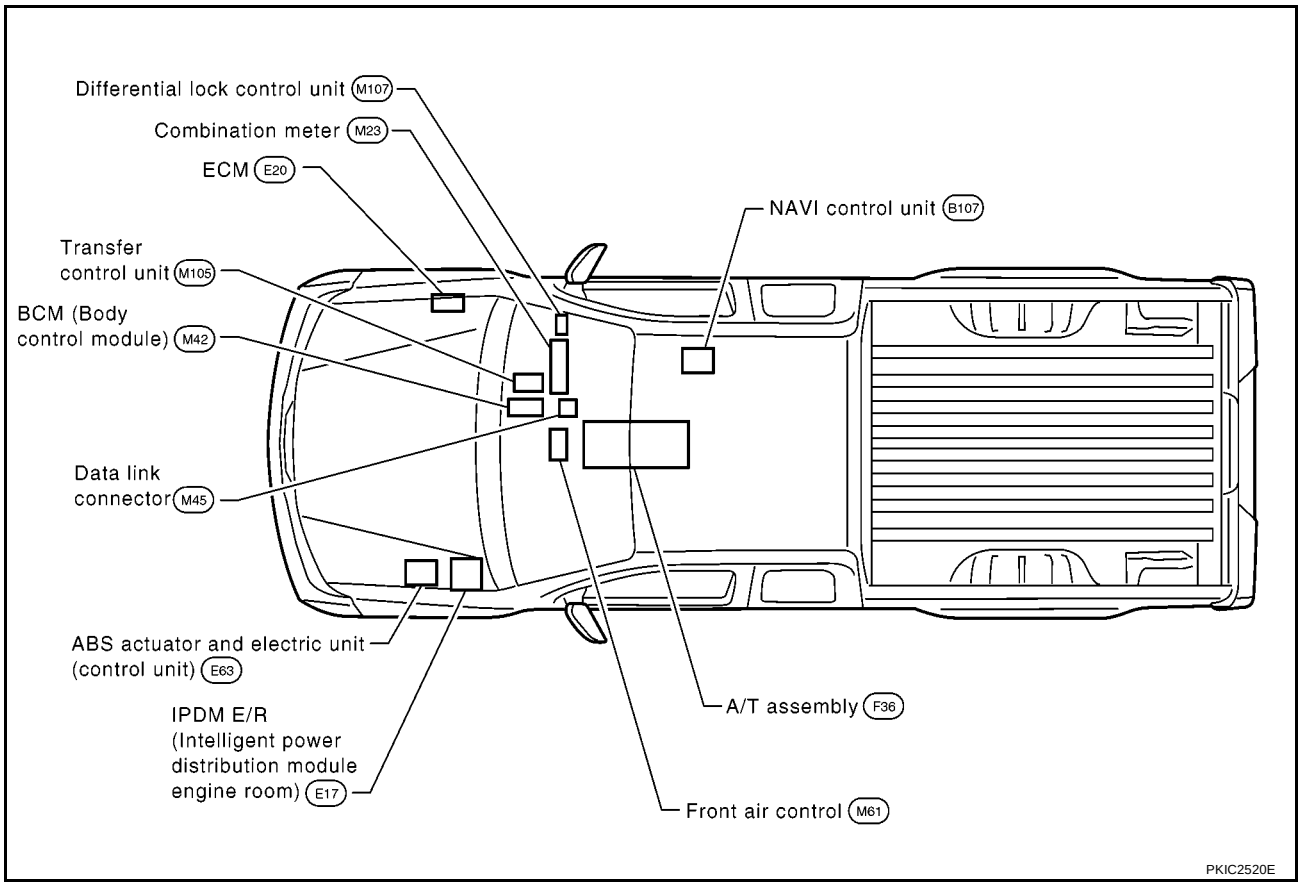
Component Parts and Harness Connector Location

EKS00PDQ

LHD MODELS

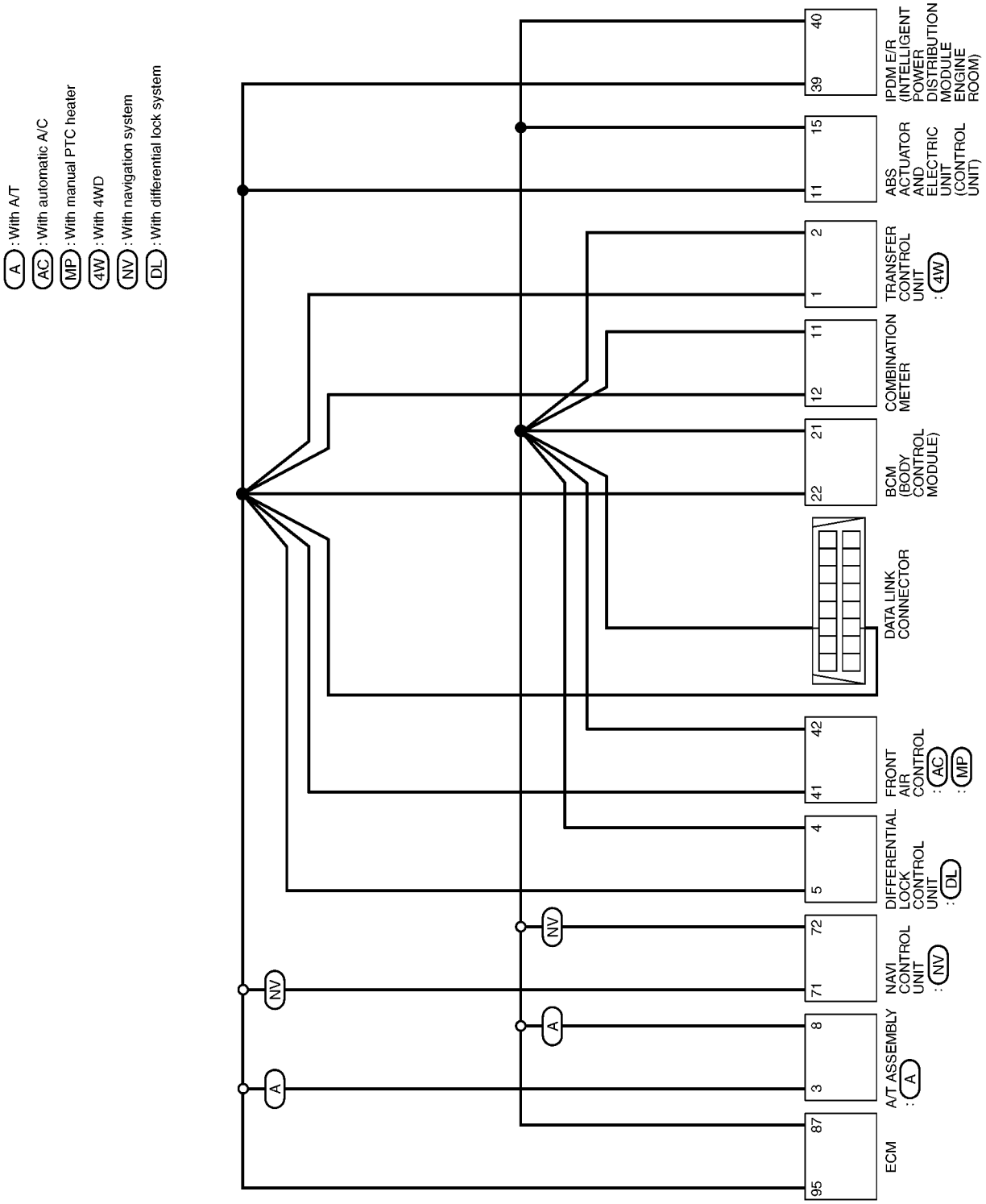


RHD MODELS


Differential lock control unit M107
Combination meter M23
ECM E20
Transfer control unit M105
BCM (Body control module) M42
Data link connector M45
ABS actuator and electric unit (control unit) E63
IPDM E/R (Intelligent power distribution module engine room) E17
NAVI control unit B107
A/T assembly F36
Front air control M61
PKIC2520E

Schematic

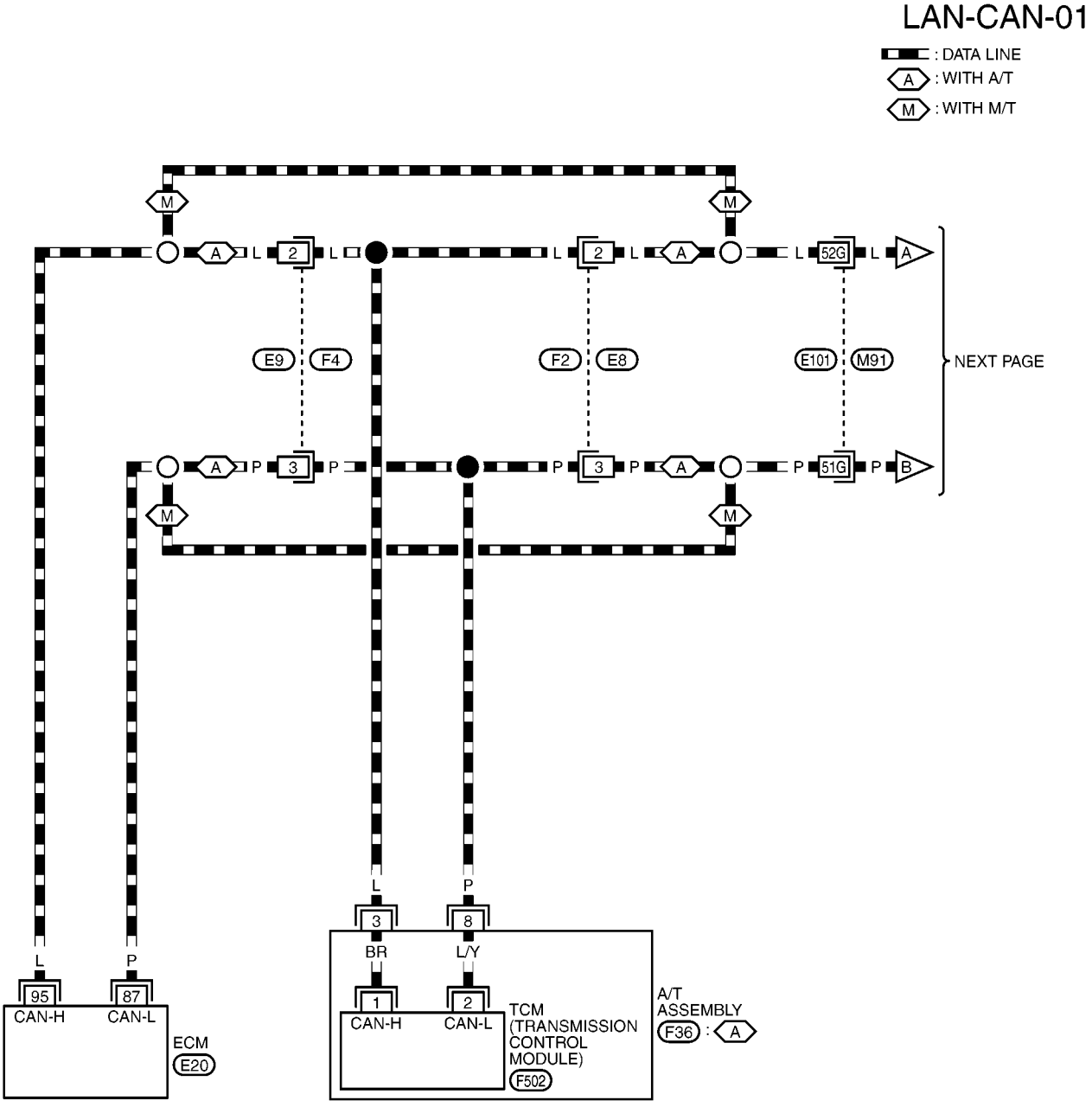
EKS00PDR



MKWA3618E

Wiring Diagram — CAN —

EKS00PDS

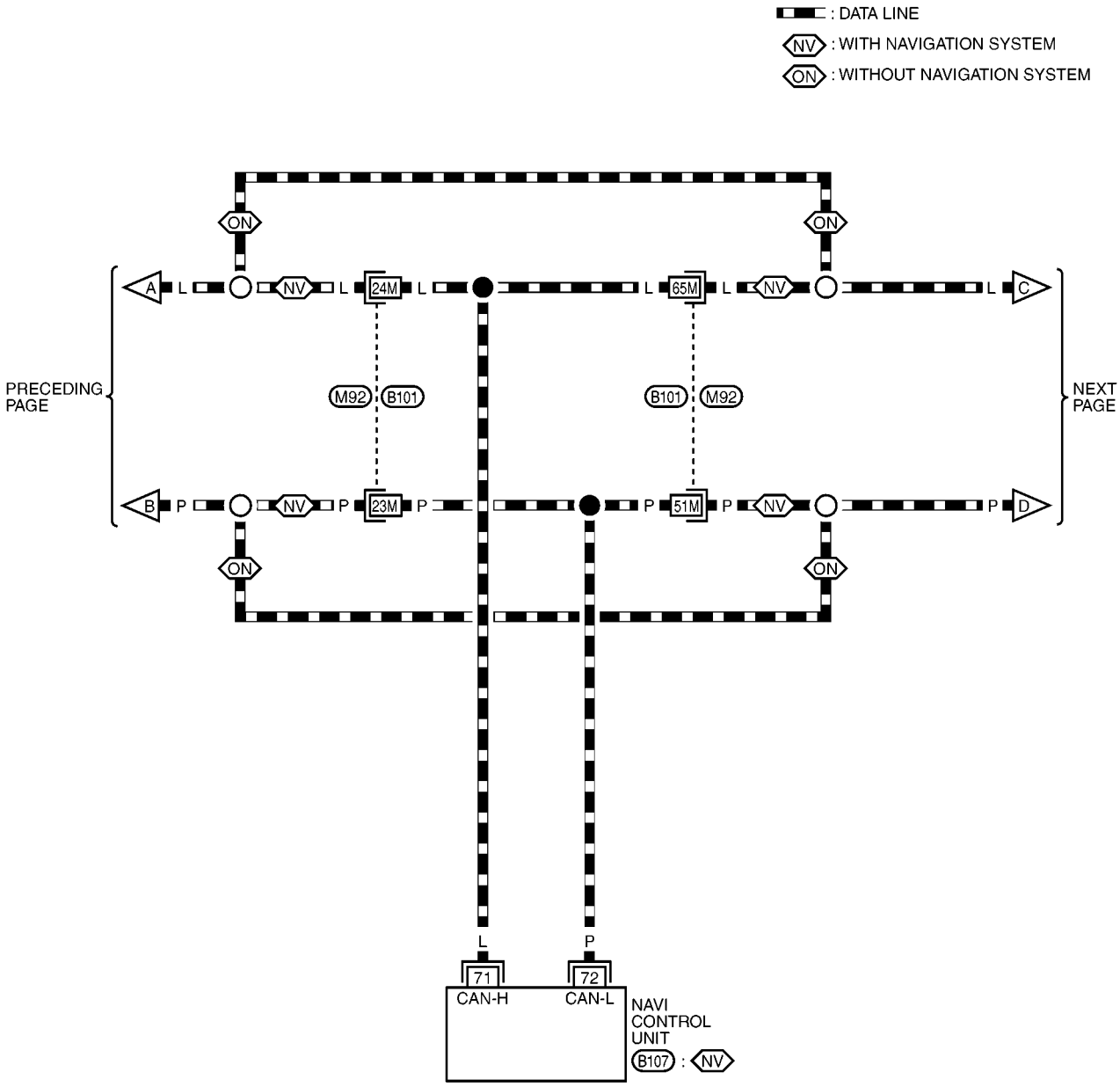


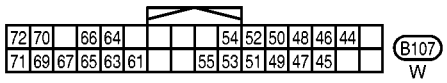
REFER TO THE FOLLOWING.
M91 - SUPER MULTIPLE JUNCTION (SMJ)

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

MKWA3619E

LAN-CAN-02

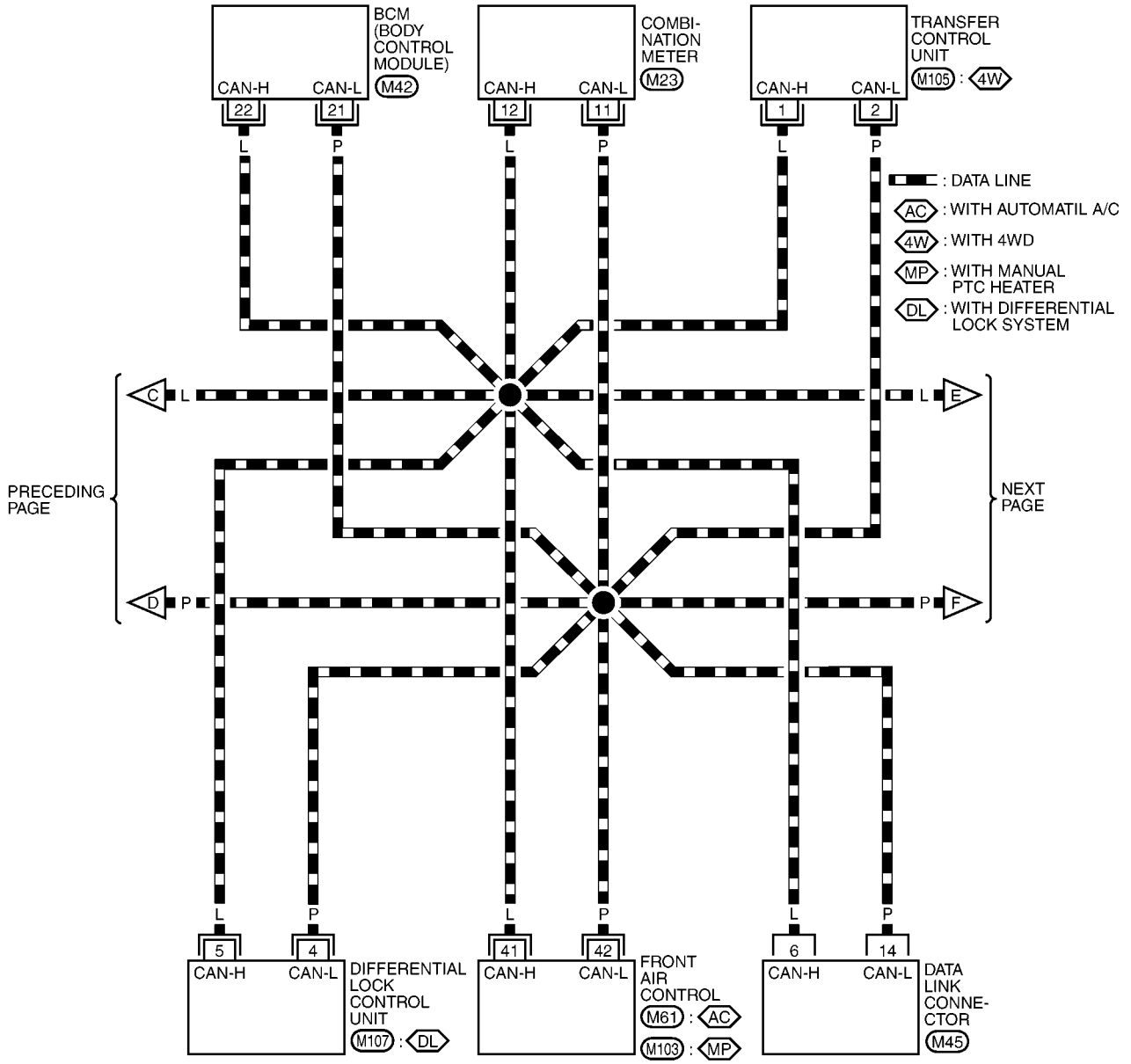


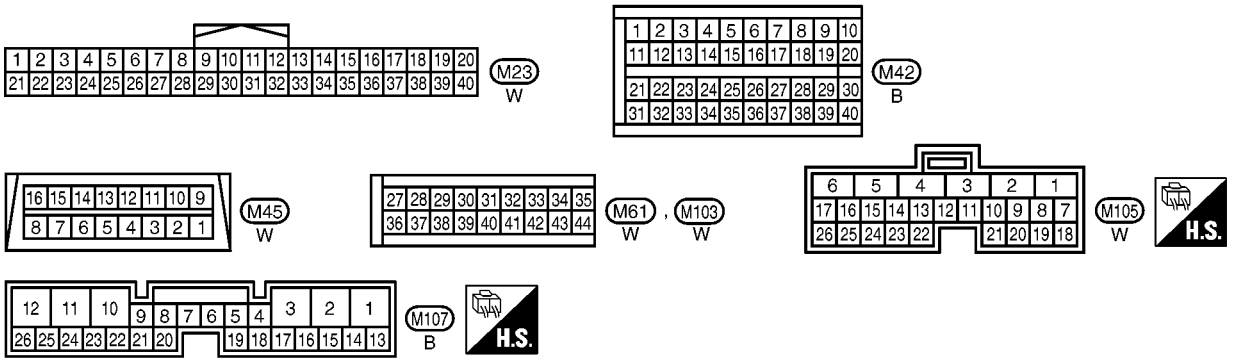


REFER TO THE FOLLOWING.
M92 - SUPER MULTIPLE JUNCTION (SMJ)

MKWA3620E

LAN-CAN-03

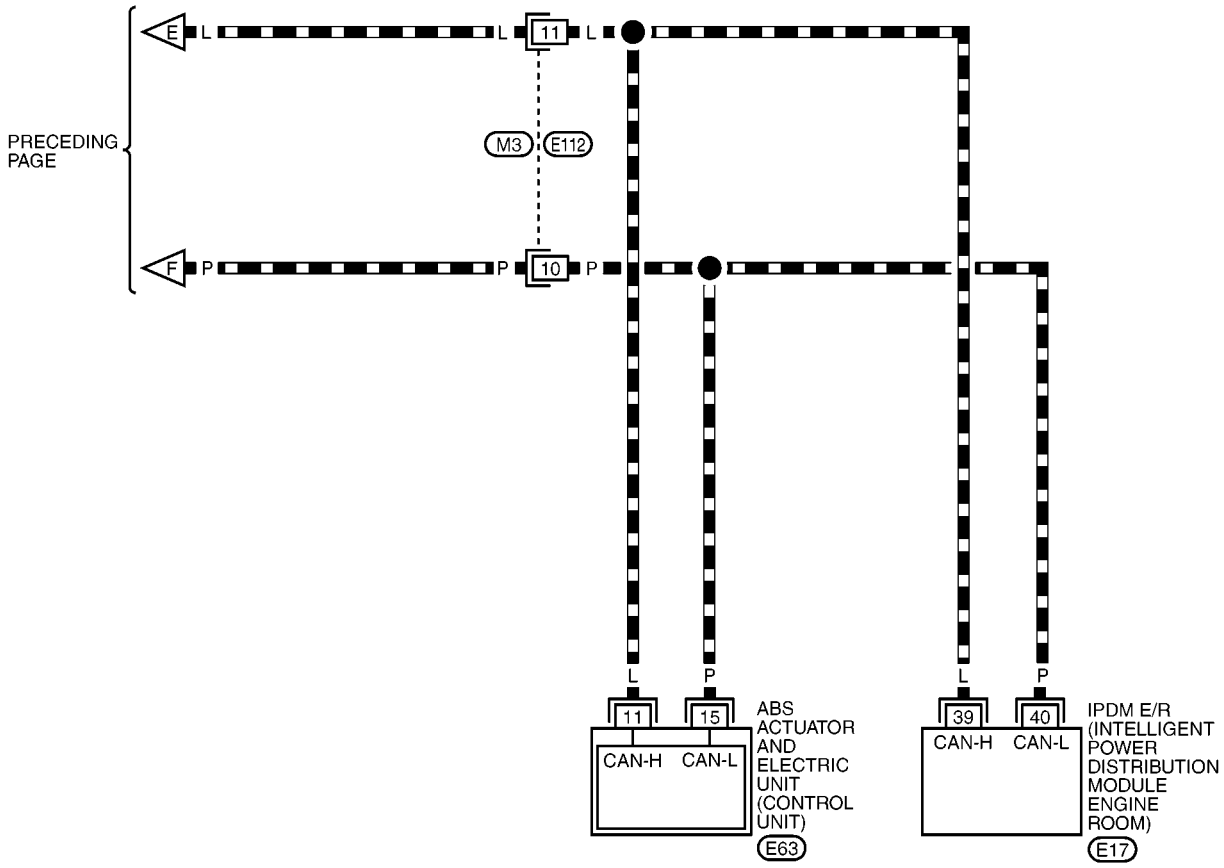


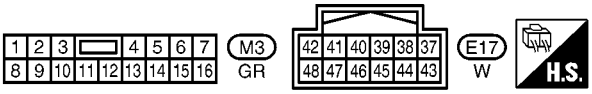


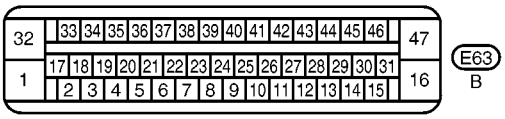
MKWA3621E

LAN-CAN-04

: DATA LINE







MKWA3622E

CAN Communication Unit

EKS00PDT

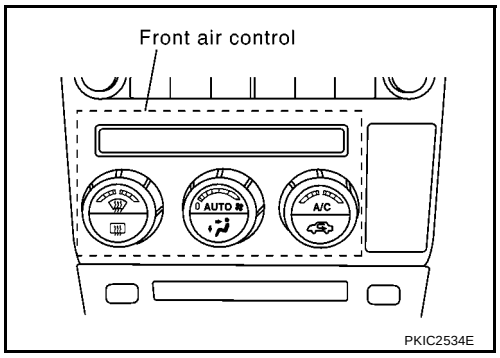
Go to CAN system, when selecting your CAN system type from the following table.

Body type		Truck														
Axle		2WD					4WD									
Engine		YD25DDTi														
Transmission		M/T			A/T		M/T					A/T				
Brake control		ABS														
Automatic air conditioner			×	×	×	×			×	×	×	×	×	×	×	×
Electronic locking rear differential								×		×		×		×		×
Navigation system				×		×					×	×			×	×
CAN system type	LHD	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	RHD	–	–	–	–	–	16	17								
CAN system trouble diagnosis	LHD	LAN -44	LAN -56	LAN -68	LAN -82	LAN -96	LAN -112	LAN -125	LAN -139	LAN -152	LAN -166	LAN -181	LAN -198	LAN -213	LAN -230	LAN -248
	RHD	–	–	–	–	–	LAN -267	LAN -279								

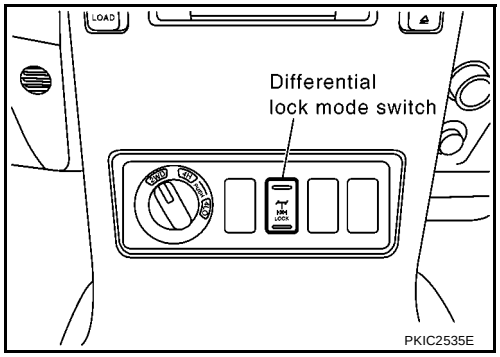
×: Applicable

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

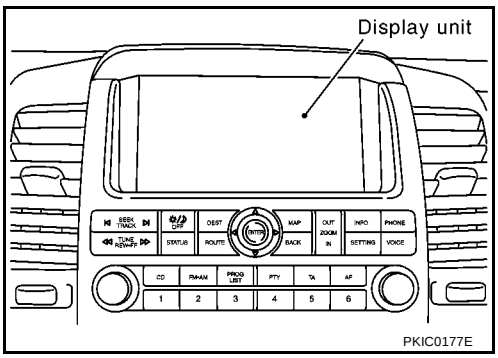
- With automatic air conditioner



- With electronic locking rear differential



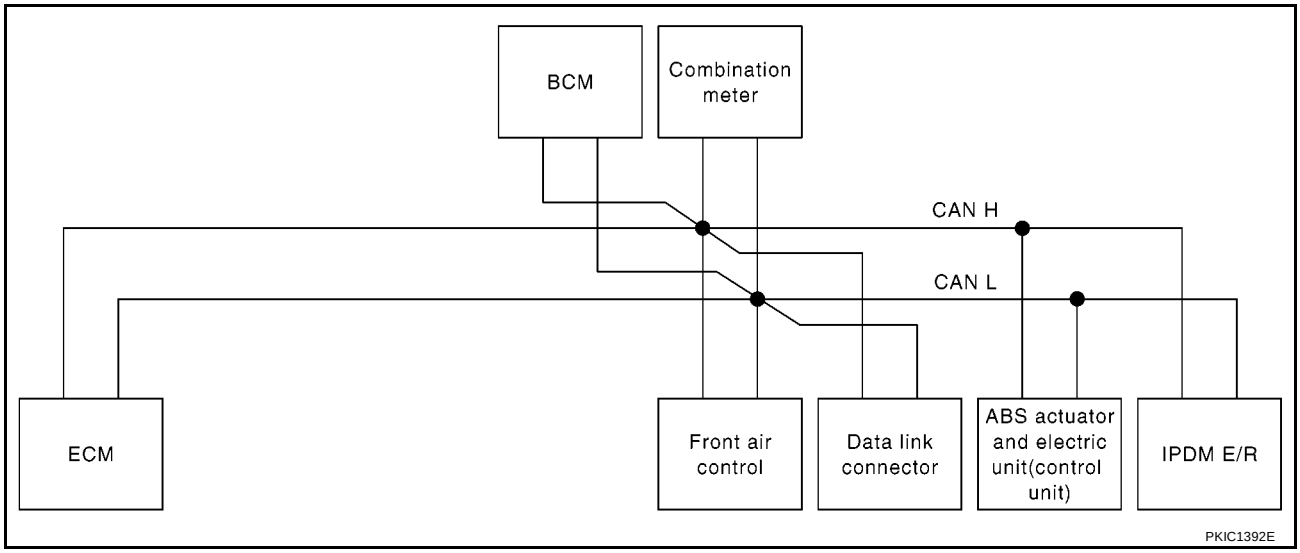
- With navigation system



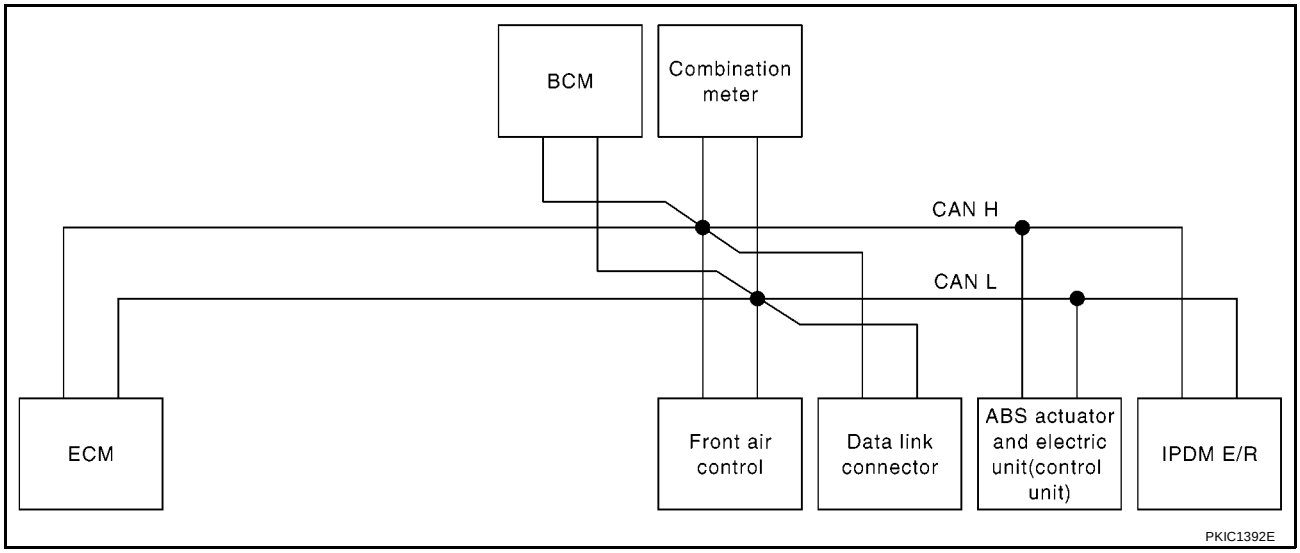
TYPE 1/ TYPE 2/ TYPE 3

System diagram

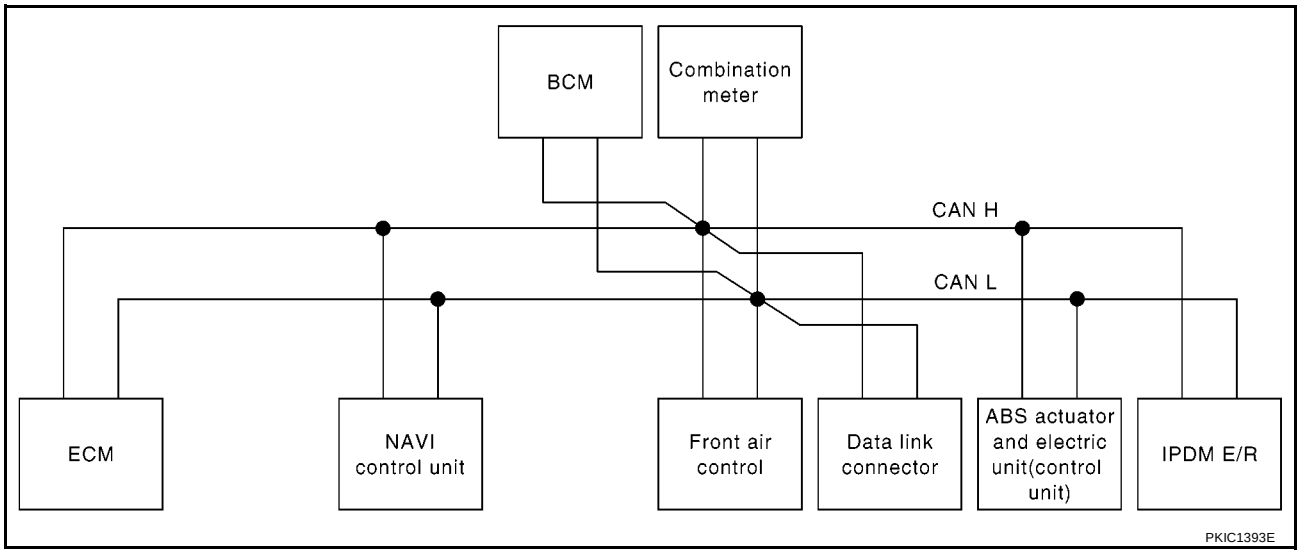
- Type 1



- Type 2



- Type 3



Input/output signal chart

T: Transmit R: Receive

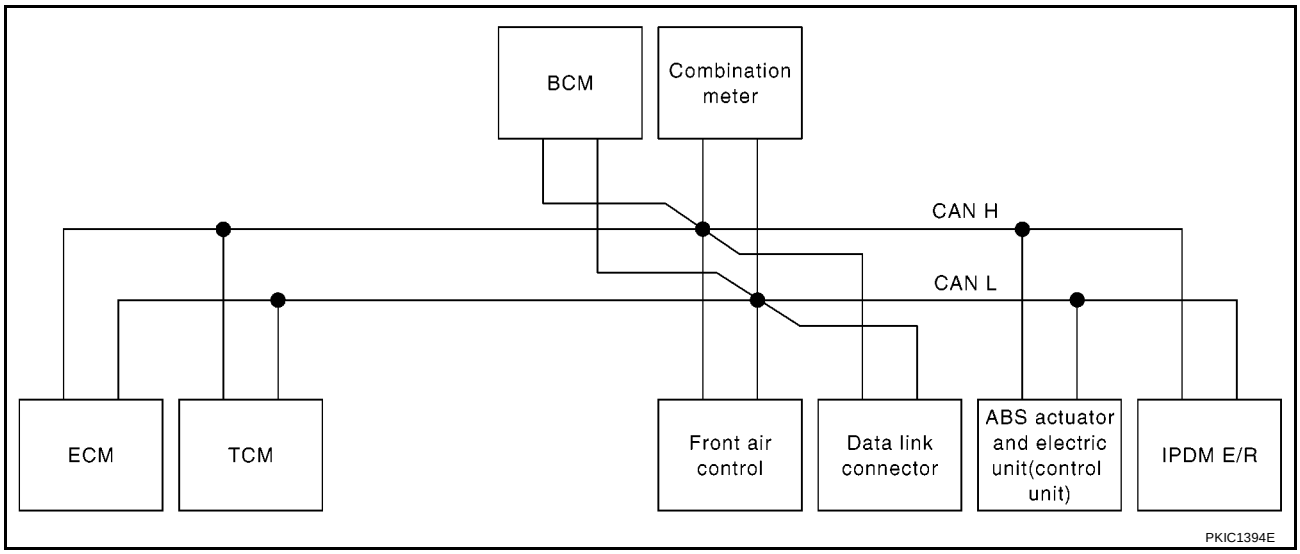
Signals	ECM	NAVI control unit	Front air control	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	T						R
ASCD CRUISE lamp signal	T				R		
ASCD SET lamp signal	T				R		
Cooling fan speed request signal	T						R
Engine coolant temperature signal	T		R		R		
Engine speed signal	T		R		R		
Engine status signal	T	R		R			
Fuel consumption monitor signal	T				R		
		R			T		
Glow indicator signal	T				R		
Glow relay signal	T		R				
Malfunction indicator signal	T				R		
A/C switch/indicator signal		T	R*				
PTC heater signal	R		T				
A/C switch signal	R		R*	T			
Buzzer output signal				T	R		
Day time running light request signal			R	T	R		R
Door switch signal				T	R		R
Front fog light request signal			R	T	R		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 light request signal				T	R		R
Rear fog light request signal			R	T	R		
Rear window defogger switch signal			R*	T			R
Sleep wake up signal				T	R		R
Theft warning horn request signal				T			R
Trailer lamp signal				T	R		
Turn indicator signal				T	R		
Distance to empty signal		R			T		
Fuel level low warning signal		R			T		
ABS warning lamp signal					R	T	
Vehicle speed signal			R*		R	T	
	R	R	R*	R	T		
Front wiper stop position signal				R			T
Hood switch signal				R			T
Oil pressure switch signal					R		T
Rear window defogger control signal			R				T

NOTE:
*: Automatic air conditioner models only

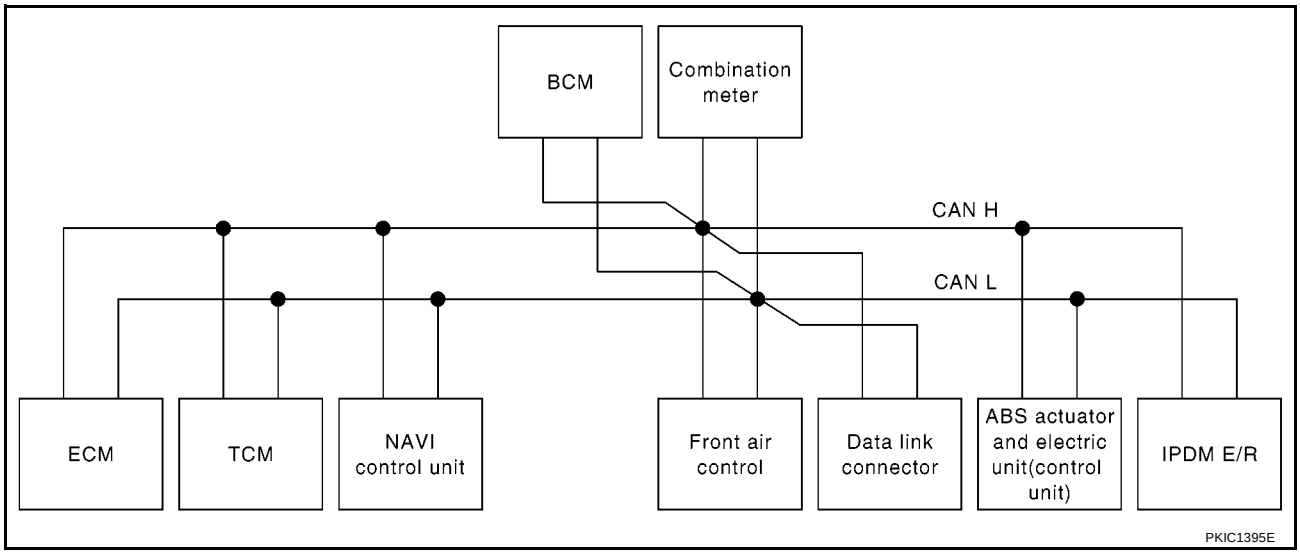
TYPE 4/ TYPE 5

System diagram

- Type 4



- Type 5



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	NAVI control unit	Front air control	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	T	R						
ASCD operation signal	T	R						
ASCD SET lamp signal	T					R		
Battery voltage signal	T	R						

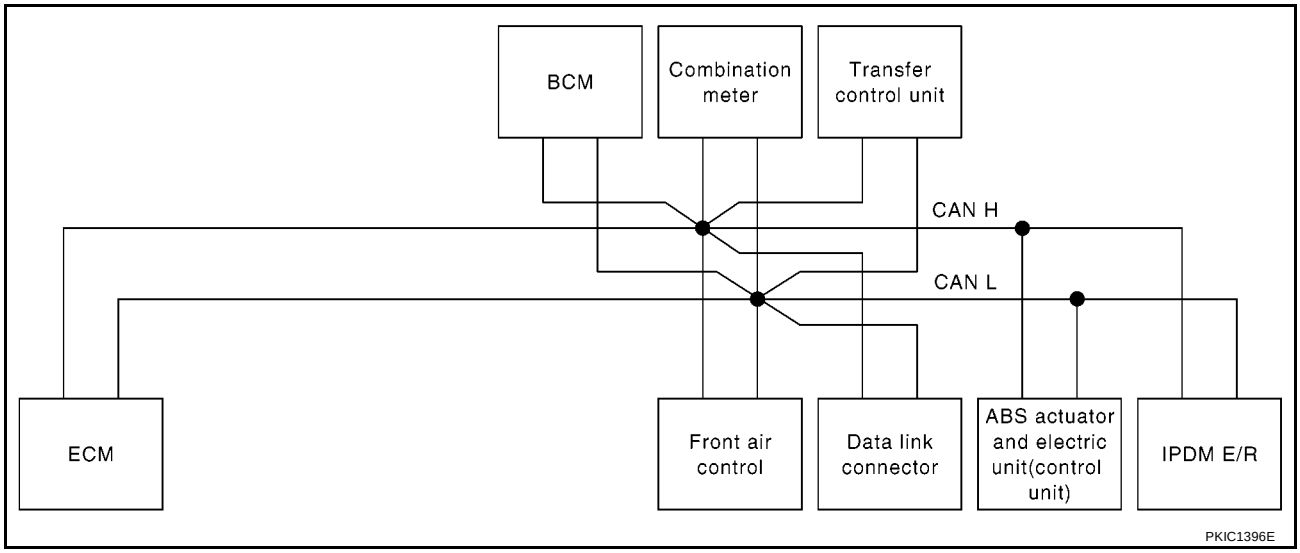
Signals	ECM	TCM	NAVI control unit	Front air control	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
Closed throttle position signal	T	R						
Cooling fan speed request signal	T							R
Engine coolant temperature signal	T			R		R		
Engine speed signal	T	R		R		R		
Engine status signal	T		R		R			
Fuel consumption monitor signal	T					R		
			R			T		
Glow indicator signal	T					R		
Glow relay signal	T			R				
Malfunction indicator signal	T					R		
Wide open throttle position signal	T	R						
A/T fluid temperature sensor signal		T				R		
A/T position indicator lamp signal		T				R		
OD OFF indicator lamp signal		T				R		
Output shaft revolution signal	R	T						
Turbine revolution signal	R	T						
A/C switch/indicator signal			T	R				
PTC heater signal	R			T				
A/C switch signal	R			R	T			
Buzzer output signal					T	R		
Day time running light request signal				R	T	R		R
Door switch signal					T	R		R
Front fog light request signal				R	T	R		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 light request signal					T	R		R
Rear fog light request signal				R	T	R		
Rear window defogger switch signal				R	T			R
Sleep wake up signal					T	R		R
Theft warning horn request signal					T			R
Trailer lamp signal					T	R		
Turn indicator signal					T	R		
1st position switch signal		R				T		
Distance to empty signal			R			T		
Fuel level low warning signal			R			T		
Overdrive control switch signal		R				T		
Stop lamp switch signal		R				T		
ABS operation signal		R					T	
ABS warning lamp signal						R	T	

Signals	ECM	TCM	NAVI control unit	Front air control	BCM	Combi-nation meter	ABS actuator and elec-tric unit (control unit)	IPDM E/R
Vehicle speed signal				R		R	T	
	R	R	R	R	R	T		
Front wiper stop position signal					R			T
Hood switch signal					R			T
Oil pressure switch signal						R		T
Rear window defogger control signal				R				T

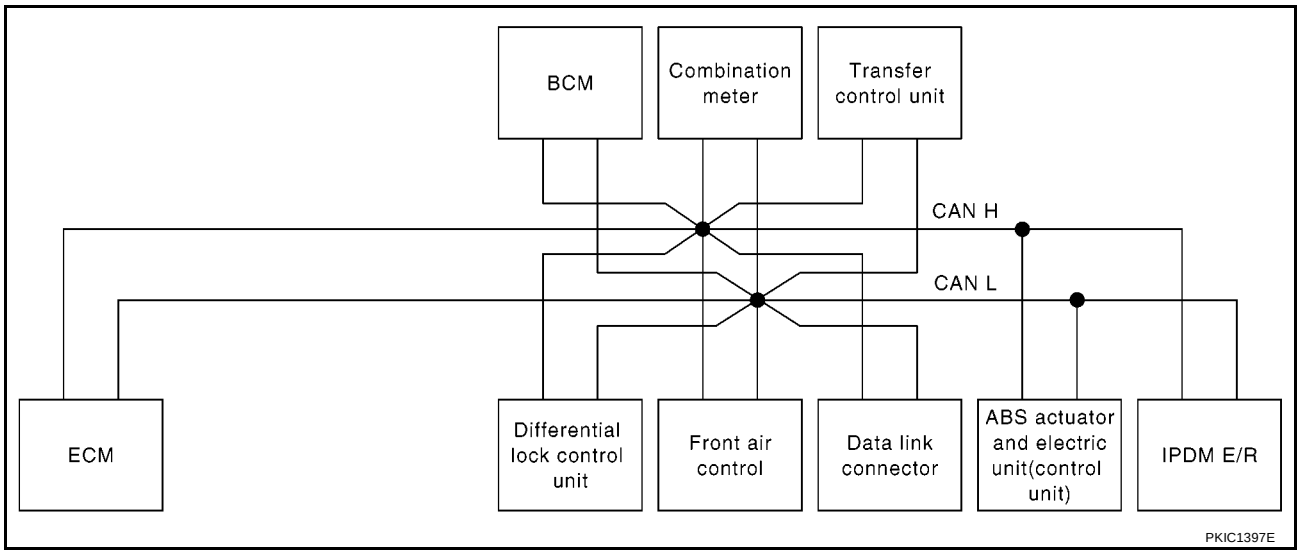
TYPE 6/ TYPE 7/ TYPE 8/ TYPE 9/ TYPE 10/ TYPE 11/ TYPE 16/ TYPE 17

System diagram

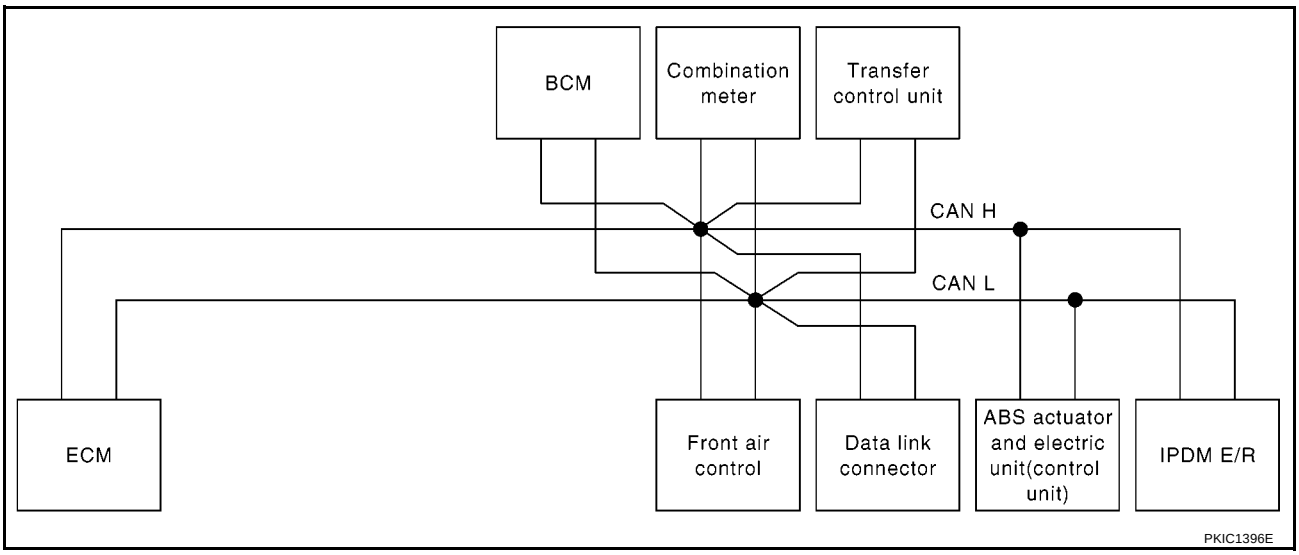
- Type 6



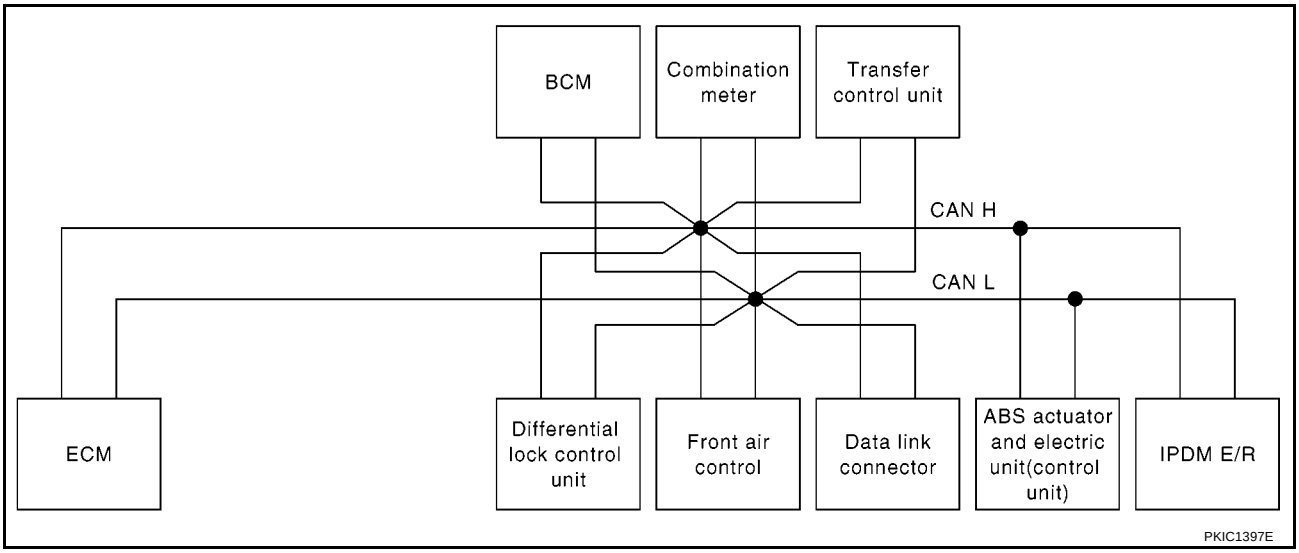
- Type 7



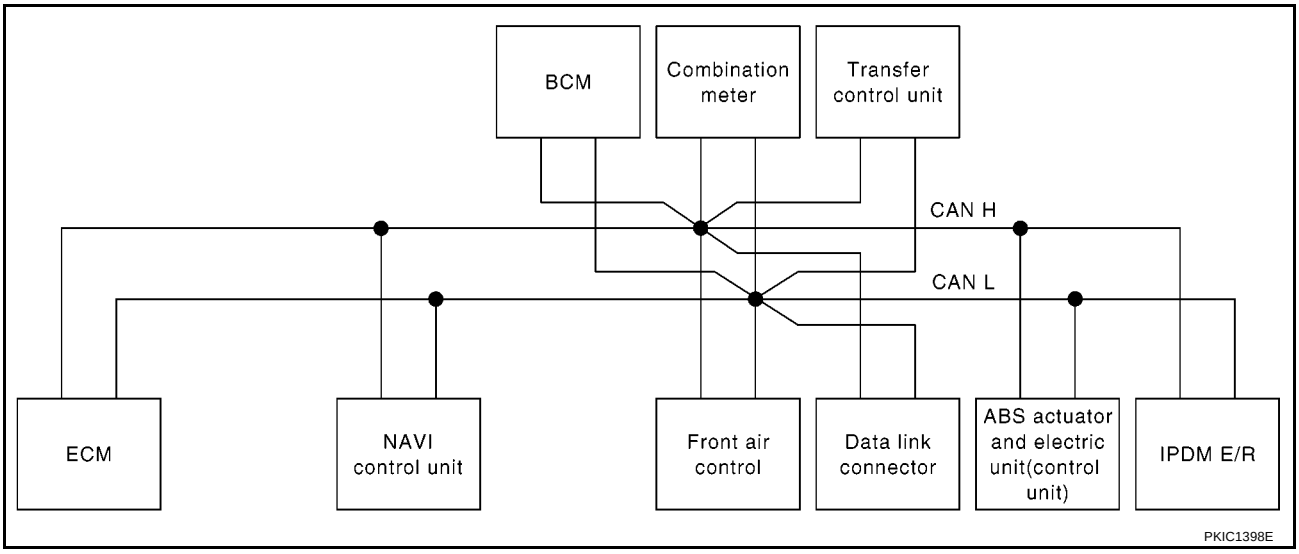
- Type 8



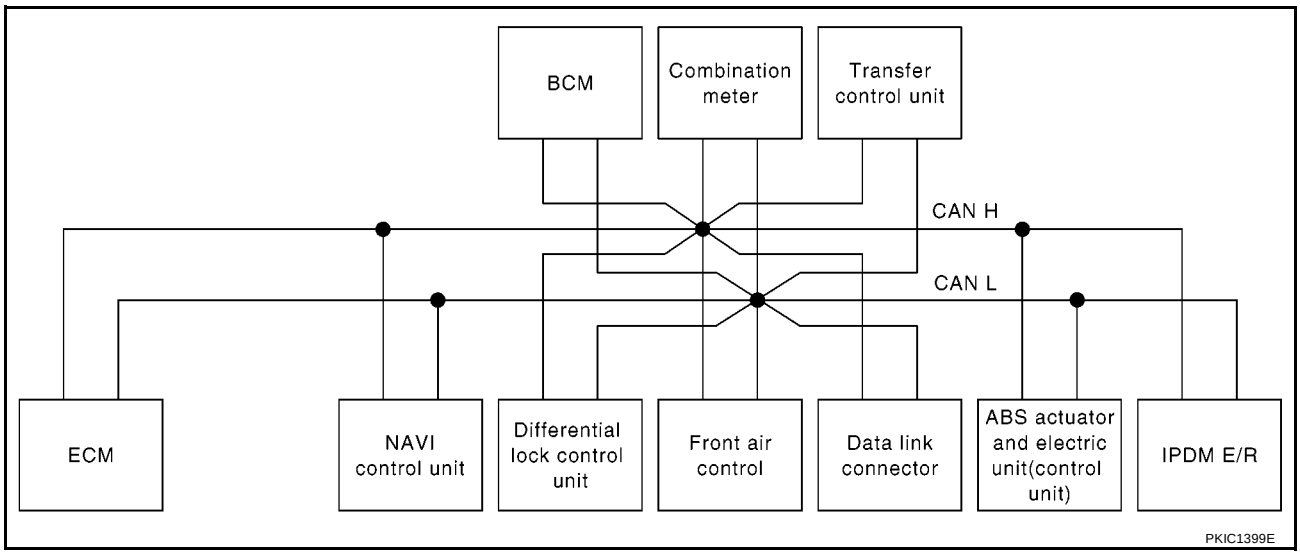
- Type 9



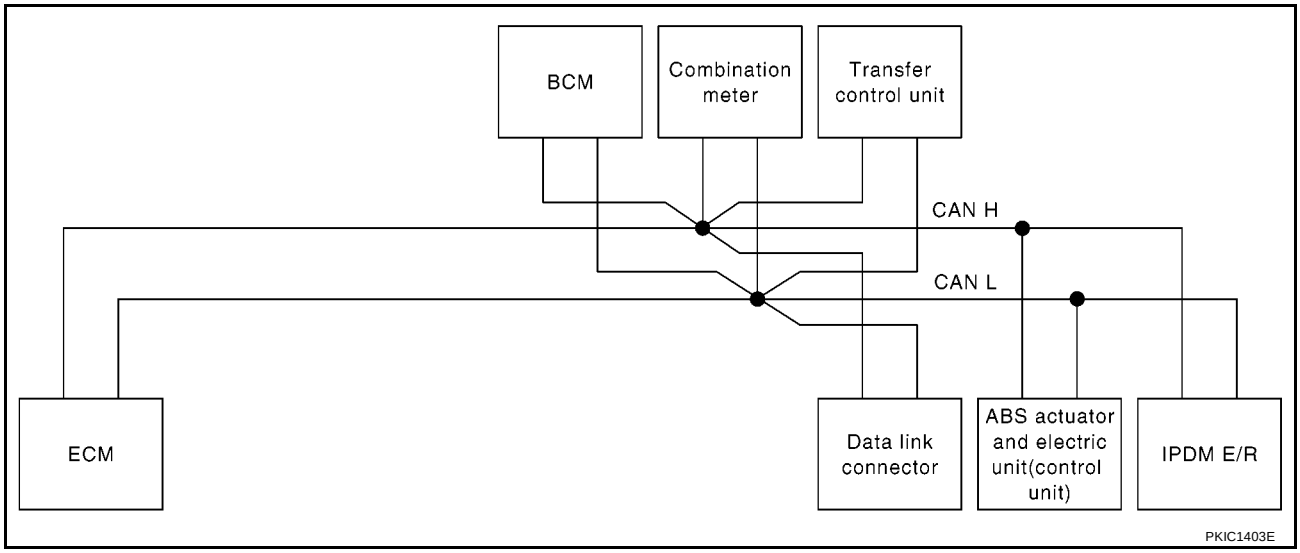
- Type 10



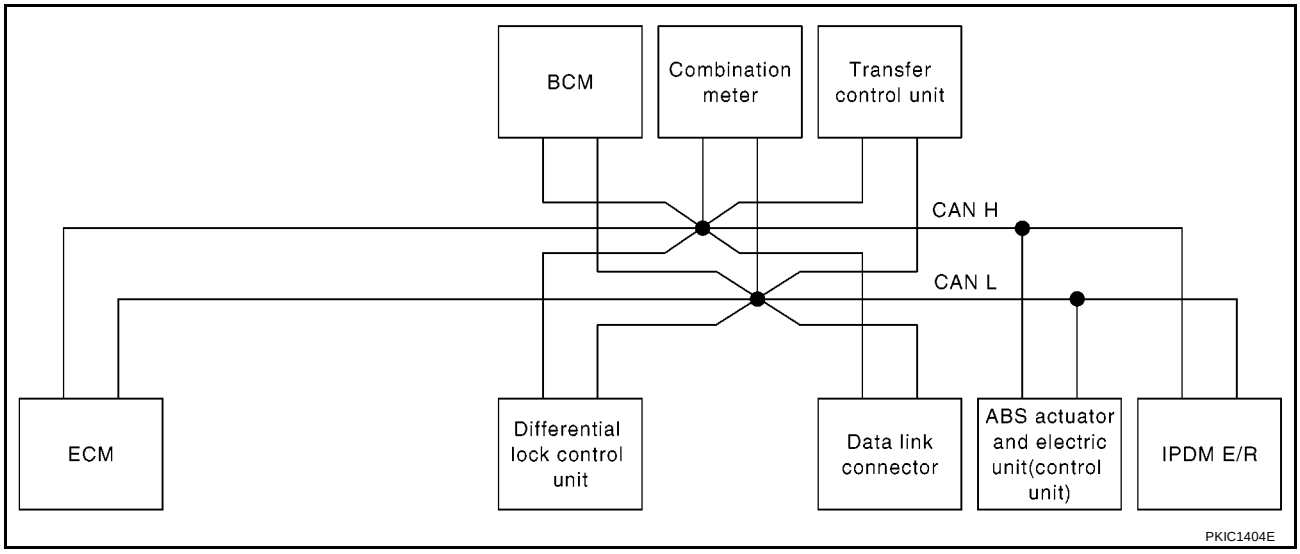
- Type 11



- Type 16



- Type 17



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	NAVI control unit	Differential lock control unit	Front air control[*1]	BCM	Combination meter	Transfer control unit	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		R			
Engine speed signal	T			R		R	R		
Engine status signal	T	R			R				
Fuel consumption monitor signal	T					R			
		R				T			
Glow indicator signal	T					R			
Glow relay signal	T			R					
Malfunction indicator signal	T					R			
A/C switch/indicator signal		T		R[*2]					
Differential lock indicator signal			T					R	
Differential lock switch signal			T					R	
PTC heater signal[*3]	R			T					
A/C switch signal	R			R[*2]	T				
Buzzer output signal					T	R			
Day time running light request signal				R	T	R			R
Door switch signal					T	R			R
Front fog light request signal				R	T	R			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 light request signal					T	R			R
Rear fog light request signal				R	T	R			
Rear window defogger switch signal				R	T				R
Sleep wake up signal					T	R			R
Theft warning horn request signal					T				R
Trailer lamp signal					T	R			
Turn indicator signal					T	R			
Distance to empty signal		R				T			
Fuel level low warning signal		R				T			
4WD shift switch signal			R				T		
ABS warning lamp signal						R		T	
Stop lamp switch signal							R	T	

Signals	ECM	NAVI control unit	Differential lock control unit	Front air control[*1]	BCM	Combination meter	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Vehicle speed signal			R	R[*2]		R	R	T	
	R	R		R[*2]	R	T			
Front wiper stop position signal					R				T
Hood switch signal					R				T
Oil pressure switch signal						R			T
Rear window defogger control signal				R					T

NOTE:

*1: Except for RHD models without automatic air conditioner

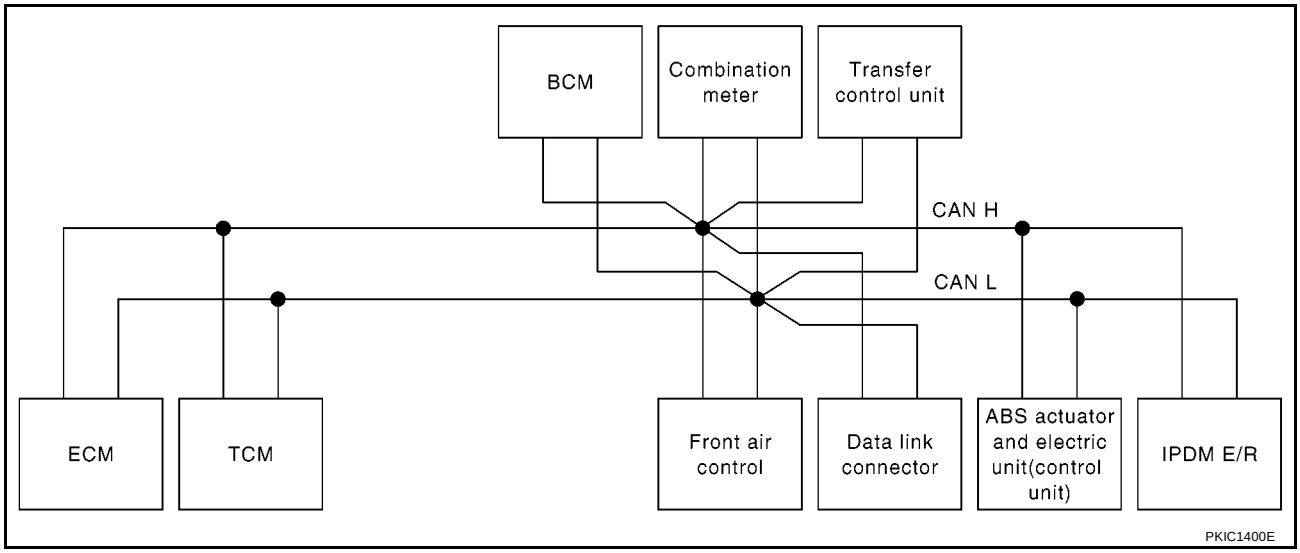
*2: Automatic air conditioner models only

*3: LHD models only

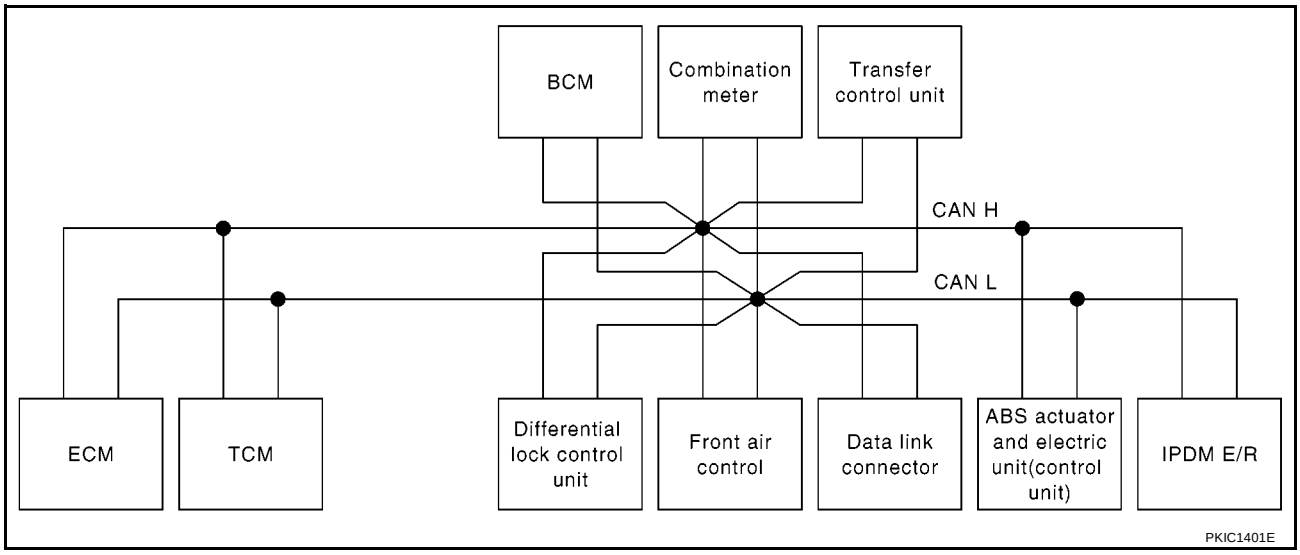
TYPE 12/ TYPE 13/ TYPE 14/ TYPE 15

System diagram

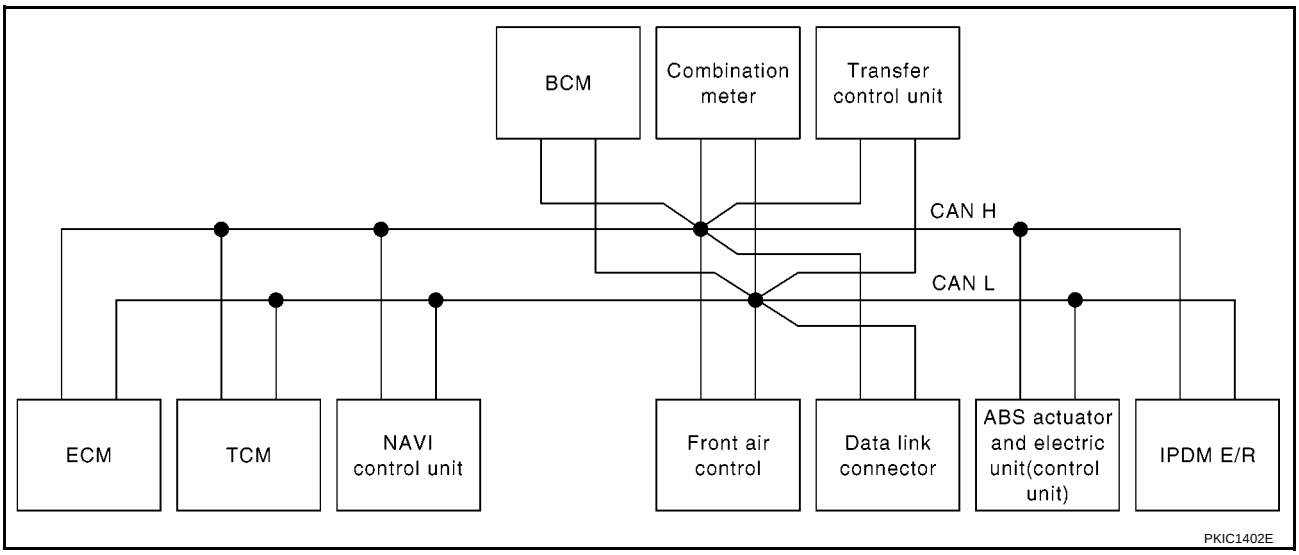
- Type 12



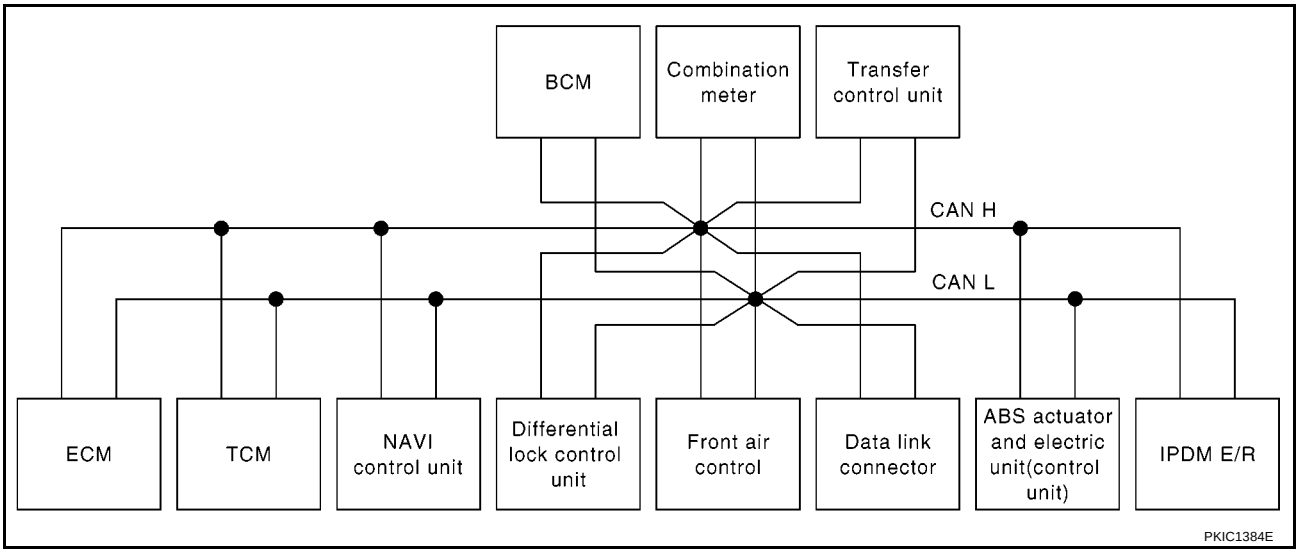
- Type 13



- Type 14



- Type 15



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	NAVI control unit	Differential lock control unit	Front air control	BCM	Combination meter	Transfer control unit	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	T	R								
ASCD operation signal	T	R								
ASCD SET lamp signal	T						R			
Battery voltage signal	T	R								
Closed throttle position signal	T	R								
Cooling fan speed request signal	T									R

Signals	ECM	TCM	NAVI control unit	Differential lock control unit	Front air control	BCM	Combination meter	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine coolant temperature signal	T				R		R			
Engine speed signal	T	R			R		R	R		
Engine status signal	T		R			R				
Fuel consumption monitor signal	T						R			
			R				T			
Glow indicator signal	T						R			
Glow relay signal	T				R					
Malfunction indicator signal	T						R			
Wide open throttle position signal	T	R								
A/T fluid temperature sensor signal		T					R			
A/T position indicator lamp signal		T					R	R		
OD OFF indicator lamp signal		T					R			
Output shaft revolution signal	R	T						R		
Turbine revolution signal	R	T								
A/C switch/indicator signal			T		R					
Differential lock indicator signal				T					R	
Differential lock switch signal				T					R	
PTC heater signal*	R				T					
A/C switch signal	R				R	T				
Buzzer output signal						T	R			
Day time running light request signal					R	T	R			R
Door switch signal						T	R			R
Front fog light request signal					R	T	R			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 light request signal						T	R			R
Rear fog light request signal					R	T	R			
Rear window defogger switch signal					R	T				R
Sleep wake up signal						T	R			R
Theft warning horn request signal						T				R
Trailer lamp signal						T	R			
Turn indicator signal						T	R			
1st position switch signal		R					T			
Distance to empty signal			R				T			
Fuel level low warning signal			R				T			
Overdrive control switch signal		R					T			
Stop lamp switch signal		R					T			

Signals	ECM	TCM	NAVI control unit	Differential lock control unit	Front air control	BCM	Combination meter	Transfer control unit	ABS actuator and electric unit (control unit)	IPDM E/R
4WD shift switch signal				R				T		
ABS operation signal		R							T	
ABS warning lamp signal							R		T	
Vehicle speed signal				R	R		R	R	T	
	R	R	R		R	R	T			
Stop lamp switch signal								R	T	
Front wiper stop position signal						R				T
Hood switch signal						R				T
Oil pressure switch signal							R			T
Rear window defogger control signal					R					T

NOTE:

*: LHD models only

CAN SYSTEM (TYPE 1)

PFP:23710

Component Parts and Harness Connector Location

EKS00OLL

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OLM

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OLN

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00QAS

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

Check sheet table

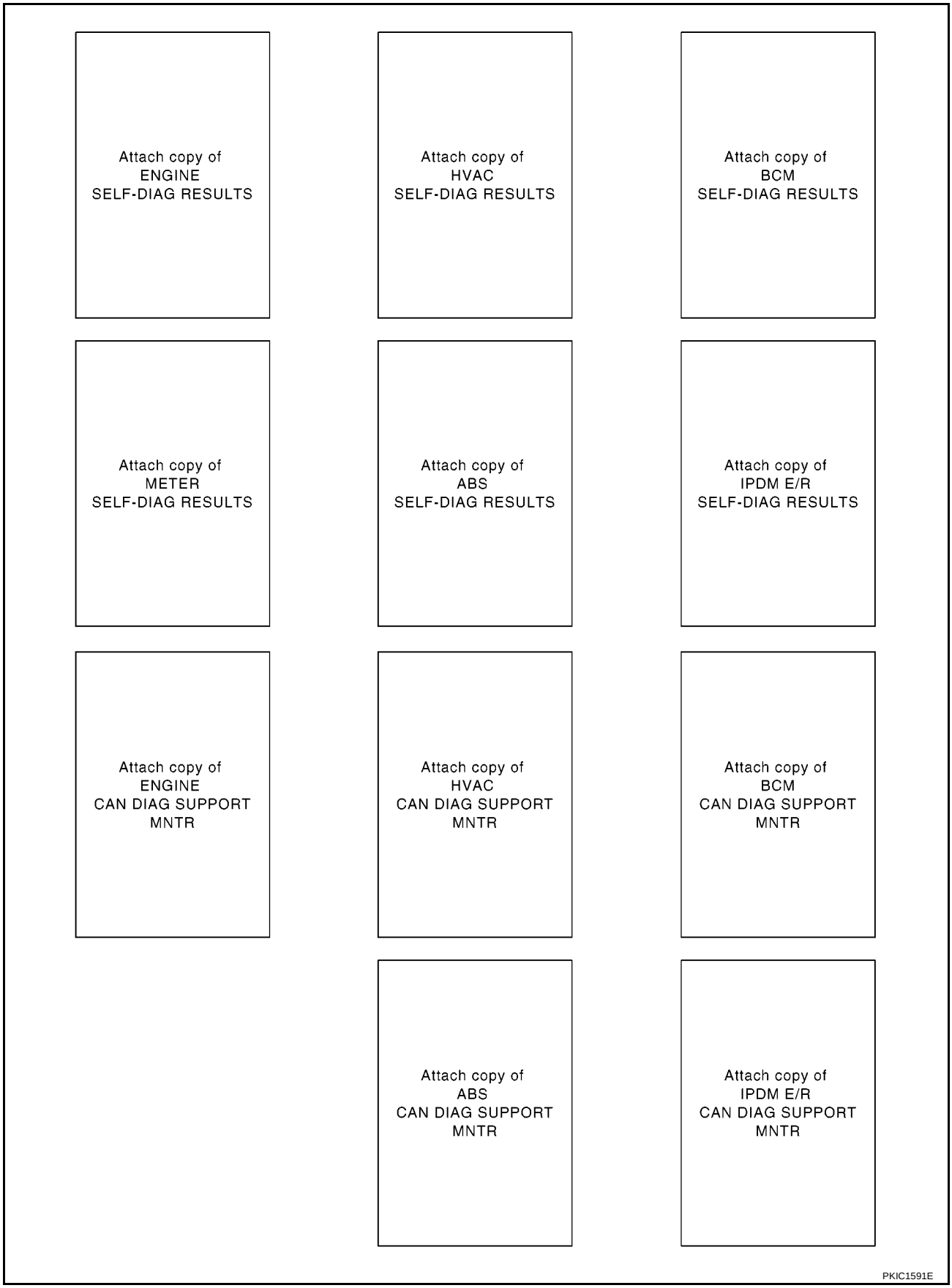
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM/SEC	METER/M&A	VDC/TCS/ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM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

PKIC1415E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
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
HVAC
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
PKIC1591E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

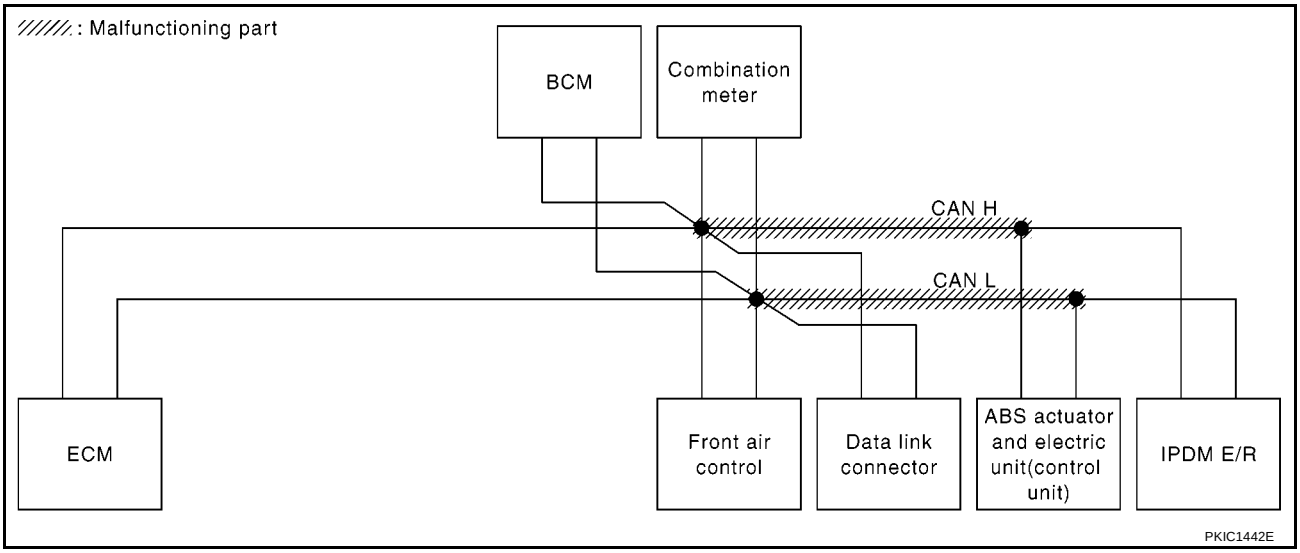
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	✓ UNKWN	✓ UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	✓ UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	✓ UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	✓ No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1727E



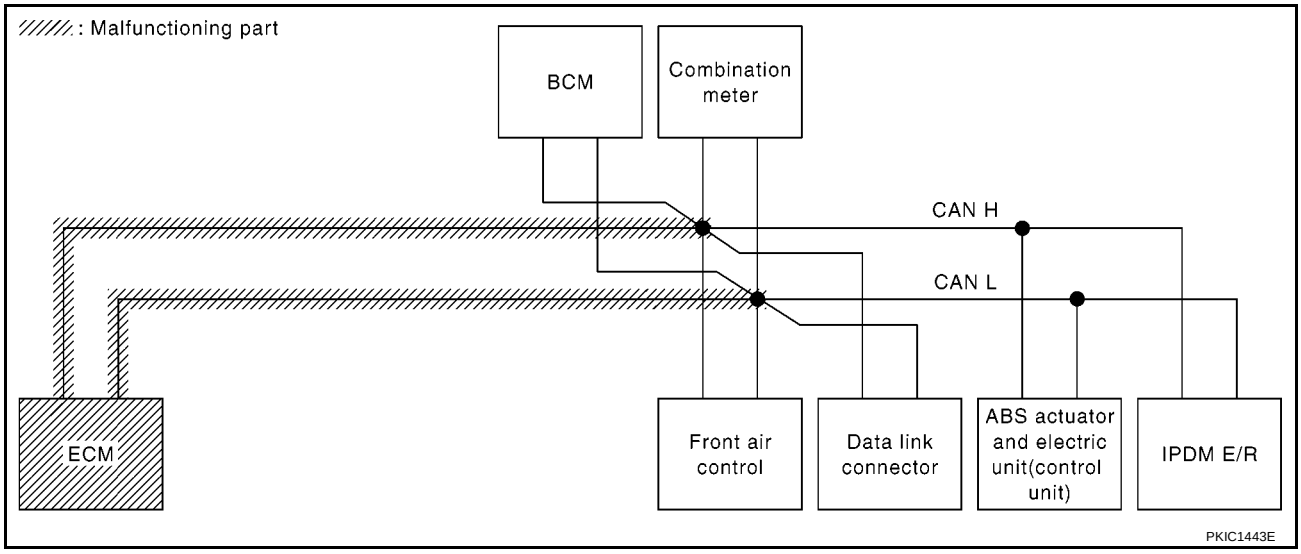
PKIC1442E

Case 2

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1728E

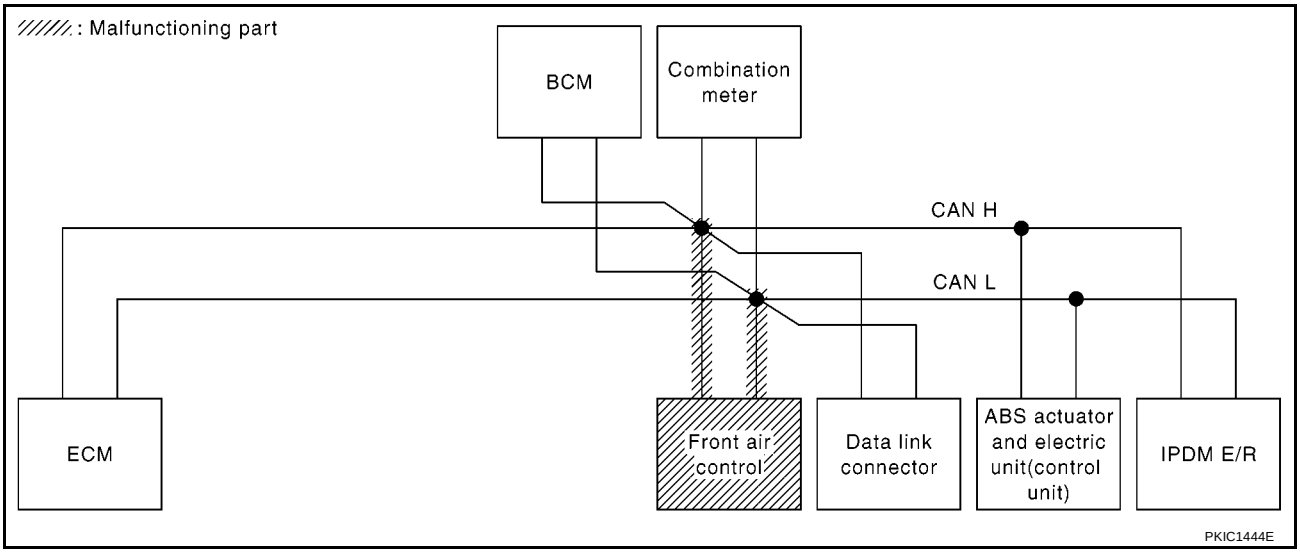


Case 3

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1729E



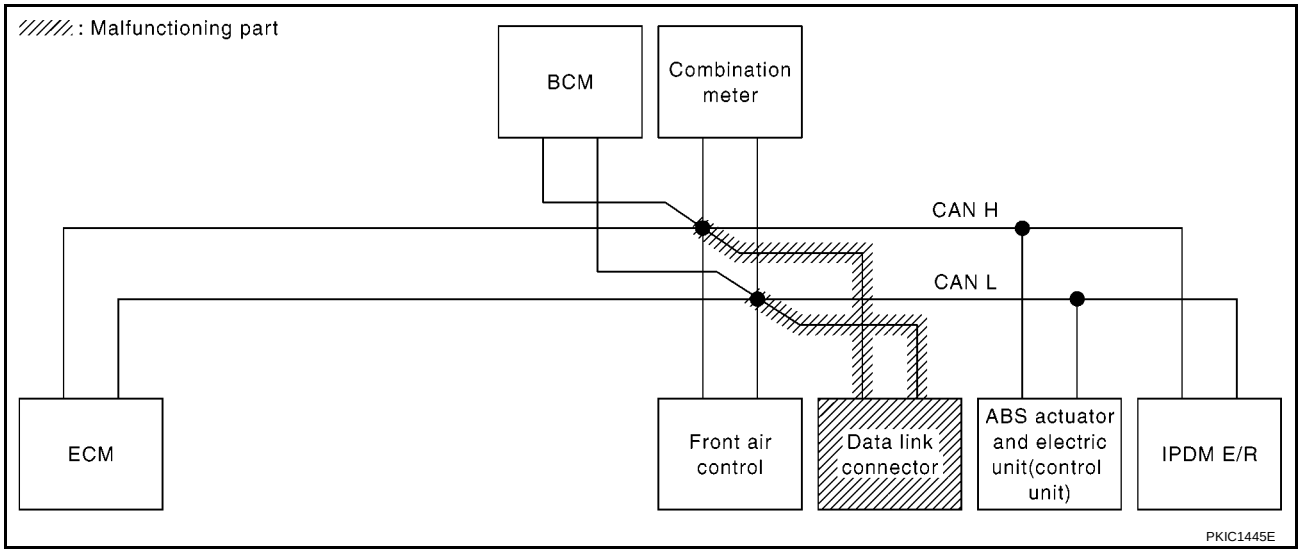
PKIC1444E

Case 4

Check data link connector circuit. Refer to LAN-300, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1730E



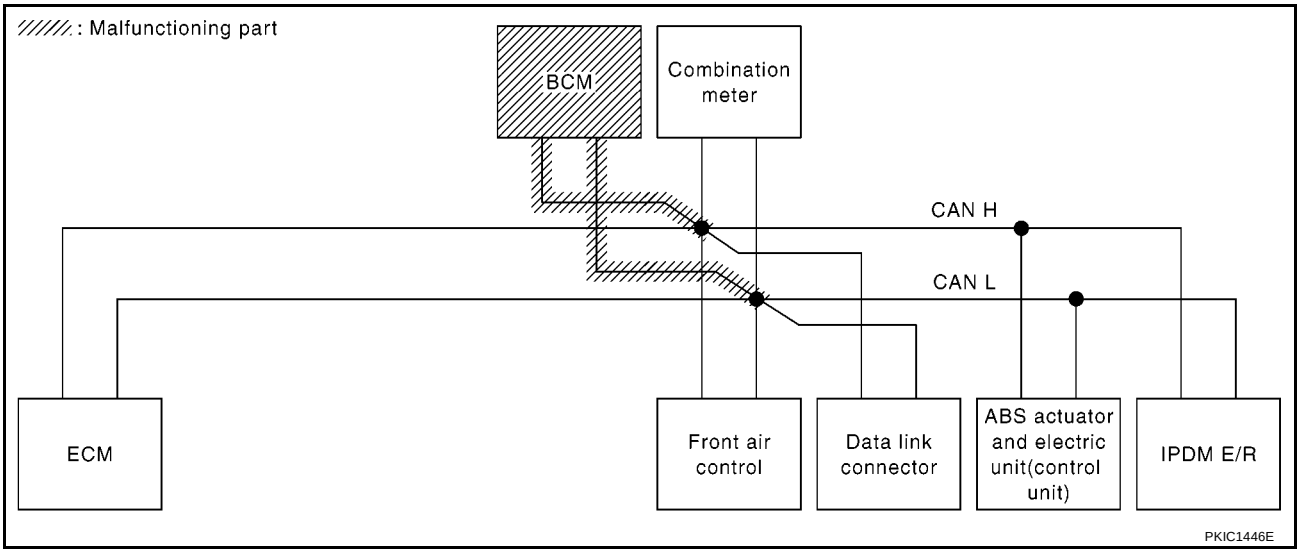
PKIC1445E

Case 5

Check BCM circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1731E



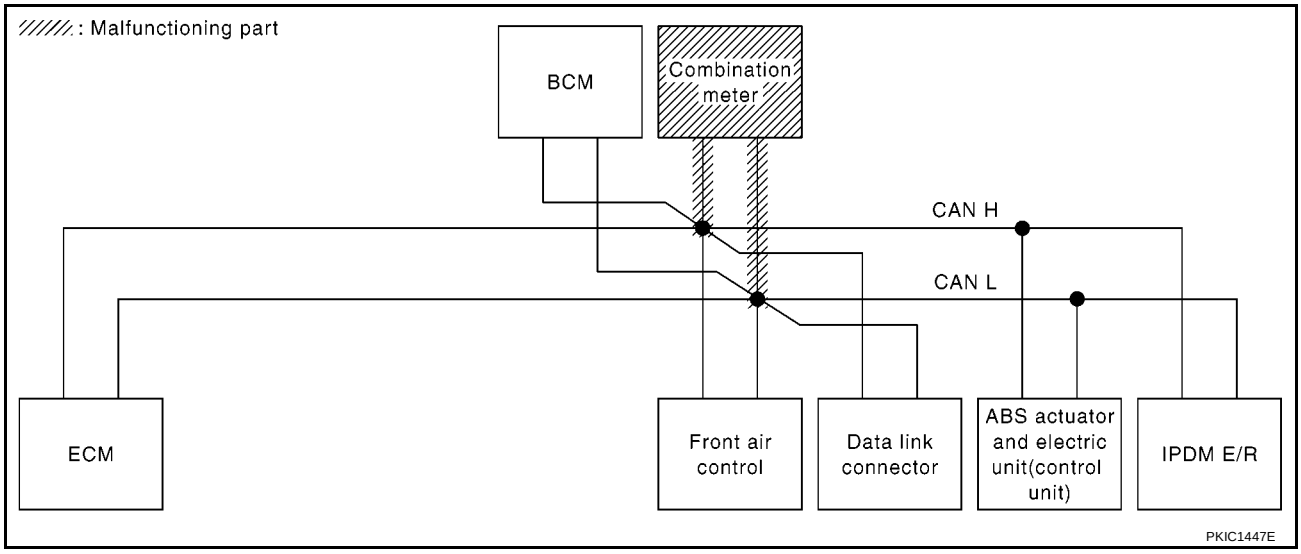
PKIC1446E

Case 6

Check combination meter circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1732E



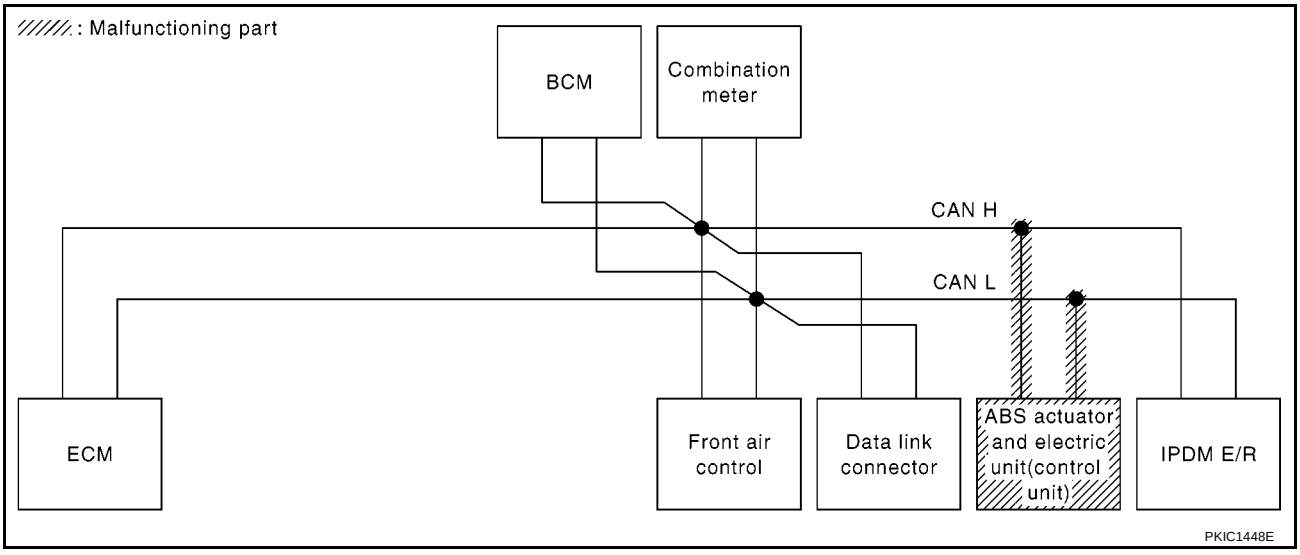
PKIC1447E

Case 7

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	UNKWN	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1733E



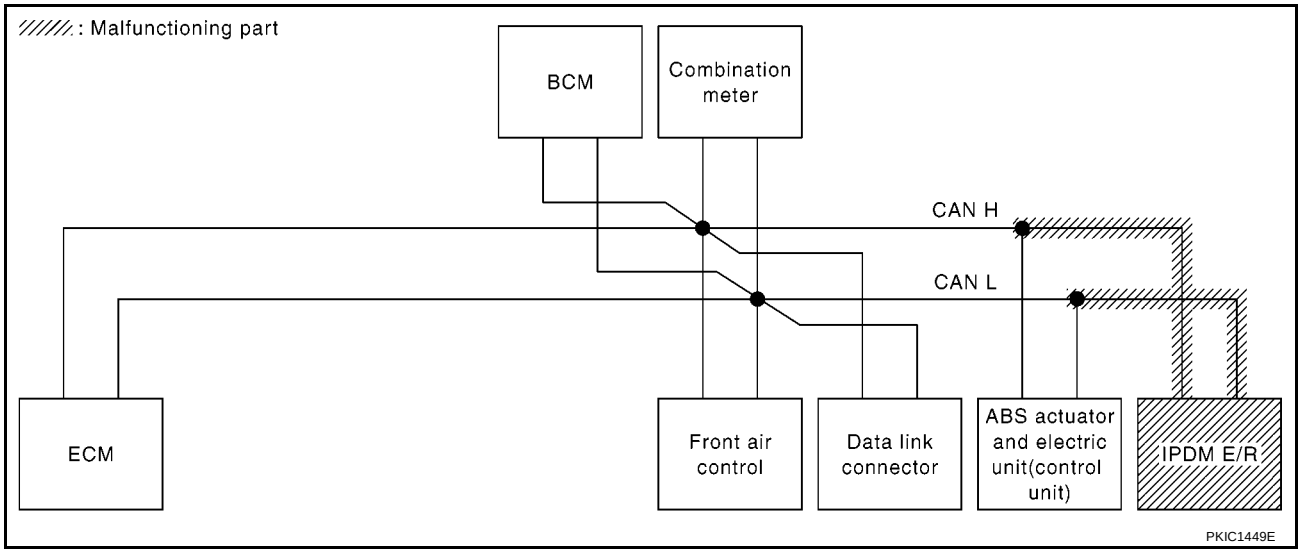
PKIC1448E

Case 8

Check IPDM E/R circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1734E



PKIC1449E

Case 9

Check CAN communication circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1735E

Case 10

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1736E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1737E

CAN SYSTEM (TYPE 2)

PFP:23710

Component Parts and Harness Connector Location

EKS00OKJ

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OKK

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OKL

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00QAT

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

Check sheet table

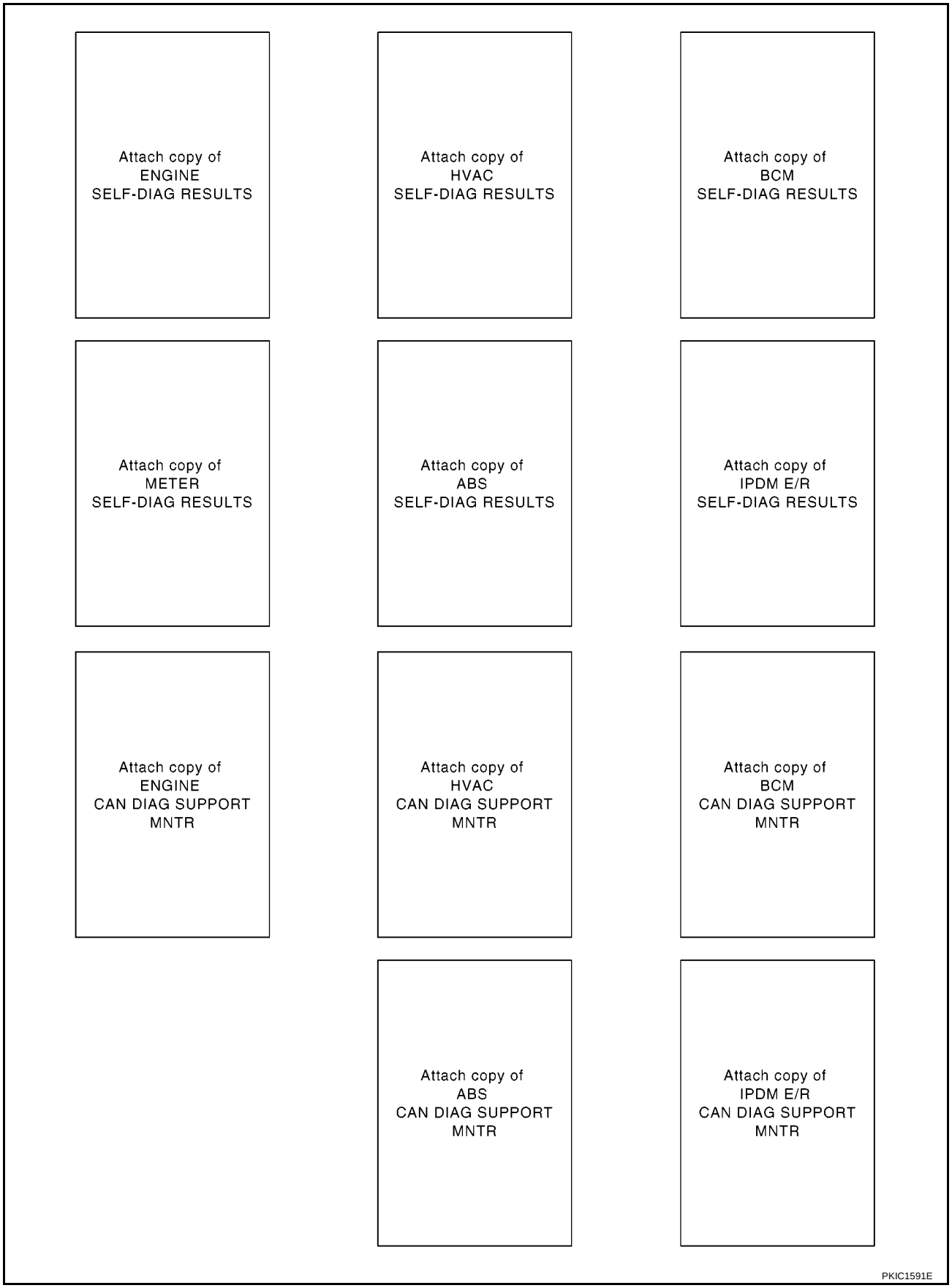
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM/SEC	METER/M&A	VDC/TCS/ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT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

PKIC1416E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
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
HVAC
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
PKIC1591E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

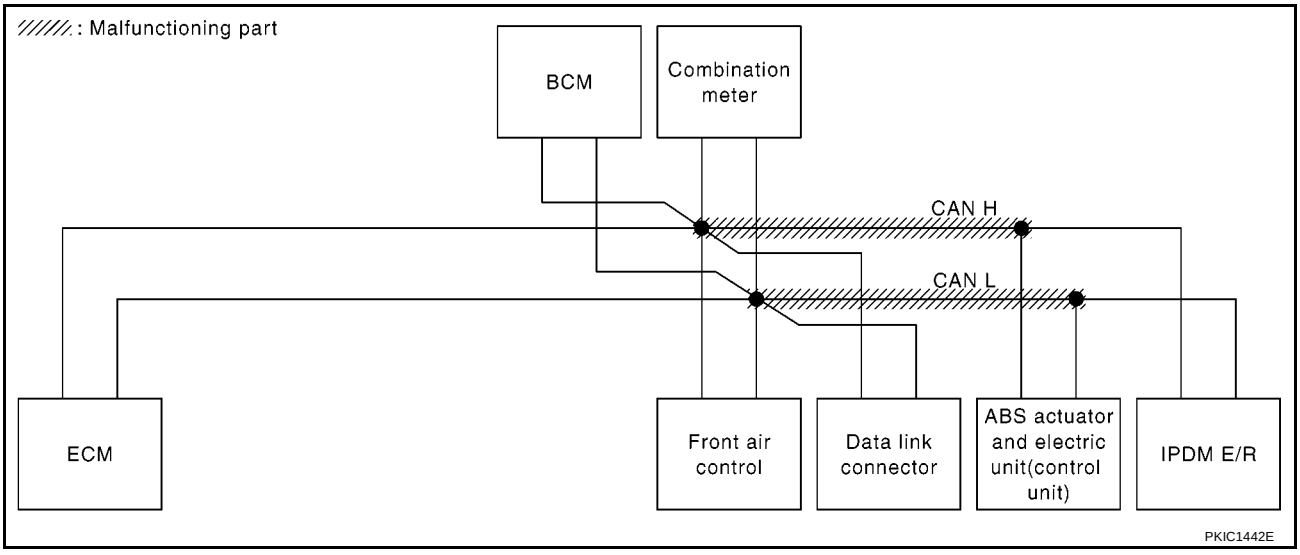
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1740E



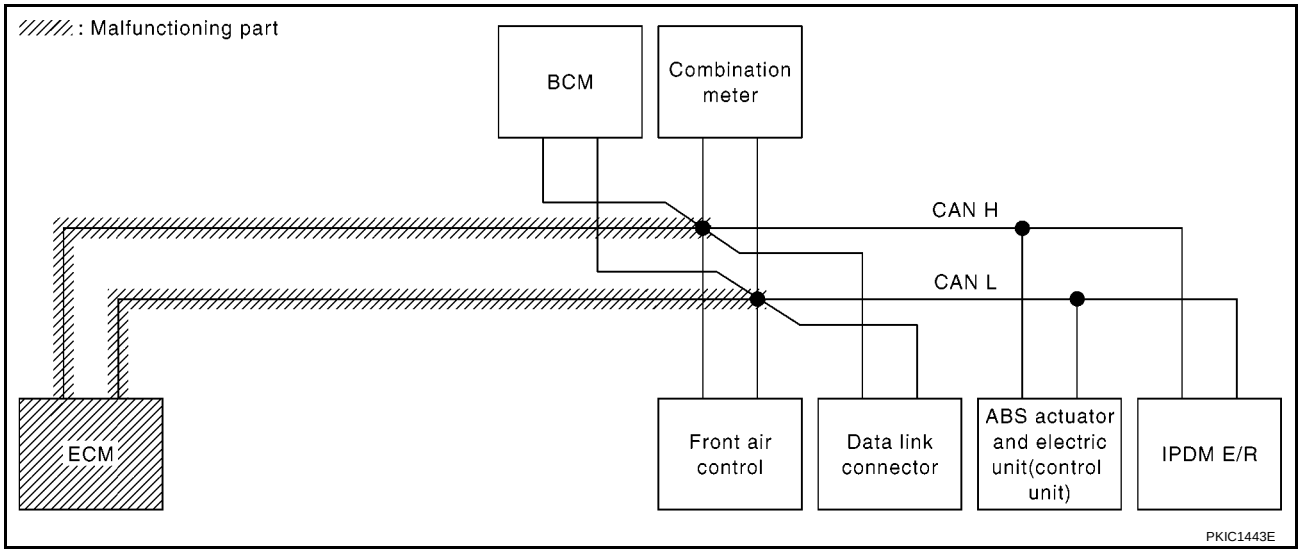
PKIC1442E

Case 2

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1741E

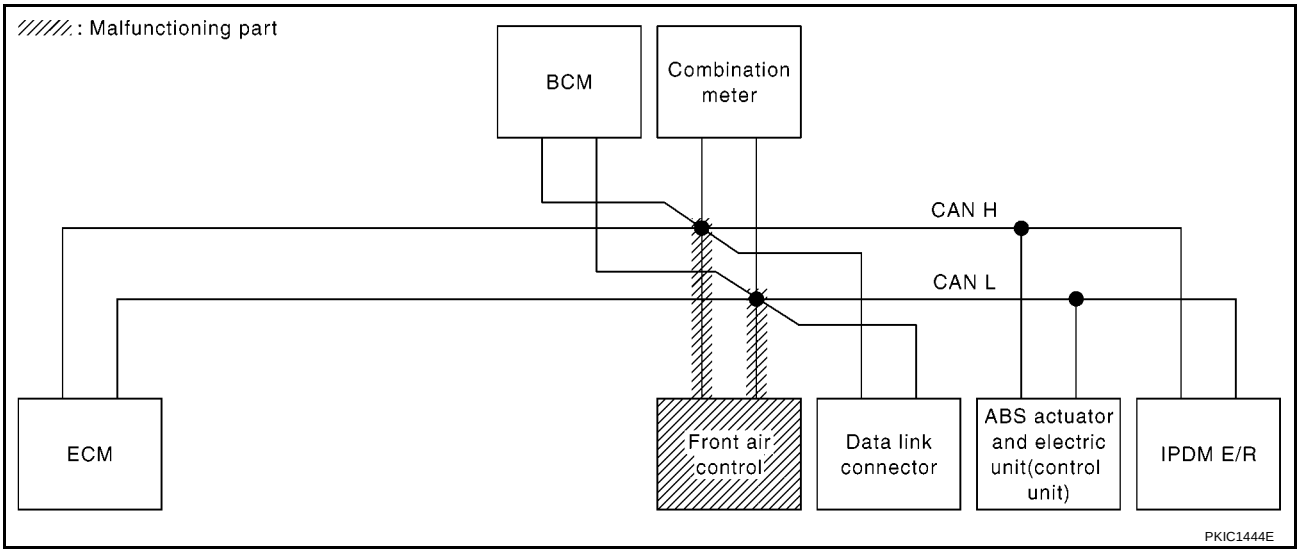


Case 3

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1742E



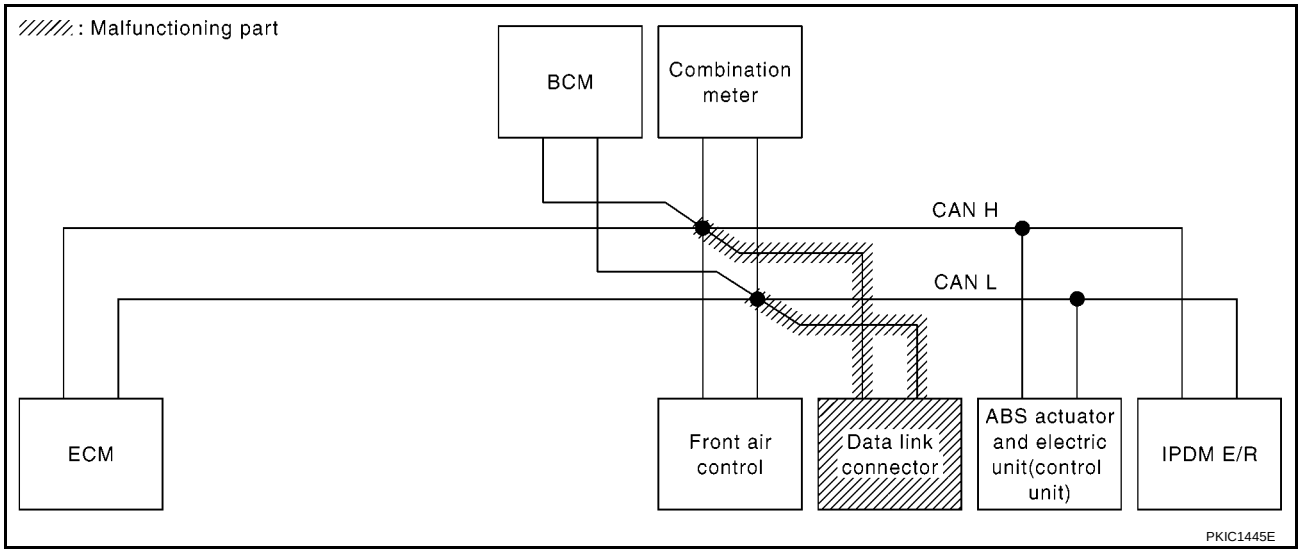
PKIC1444E

Case 4

Check data link connector circuit. Refer to LAN-300, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1743E



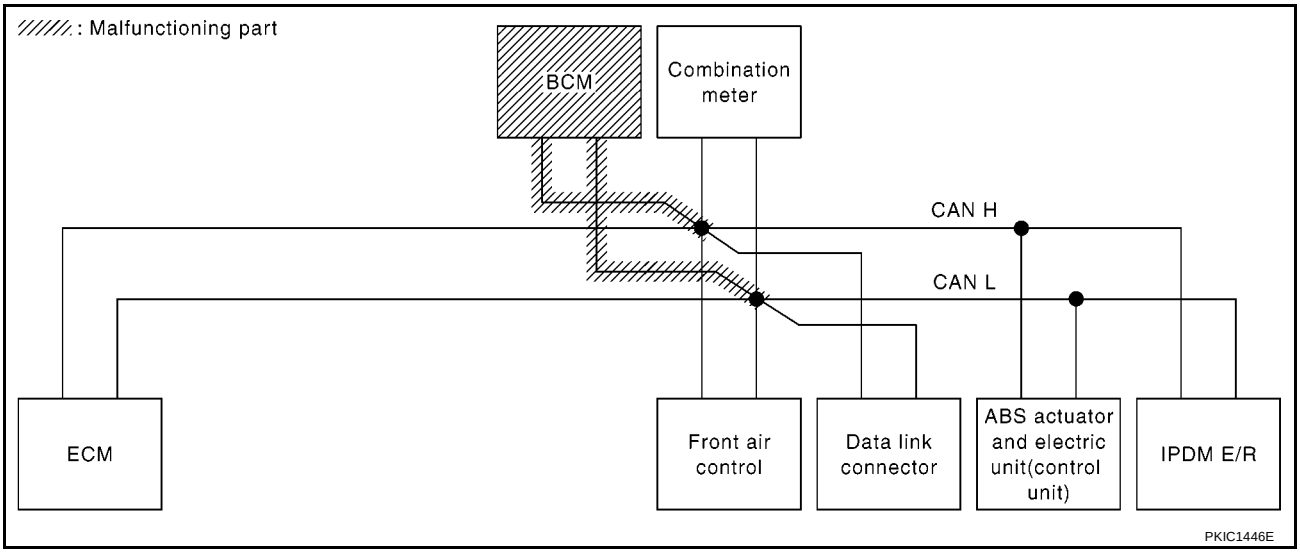
PKIC1445E

Case 5

Check BCM circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1744E



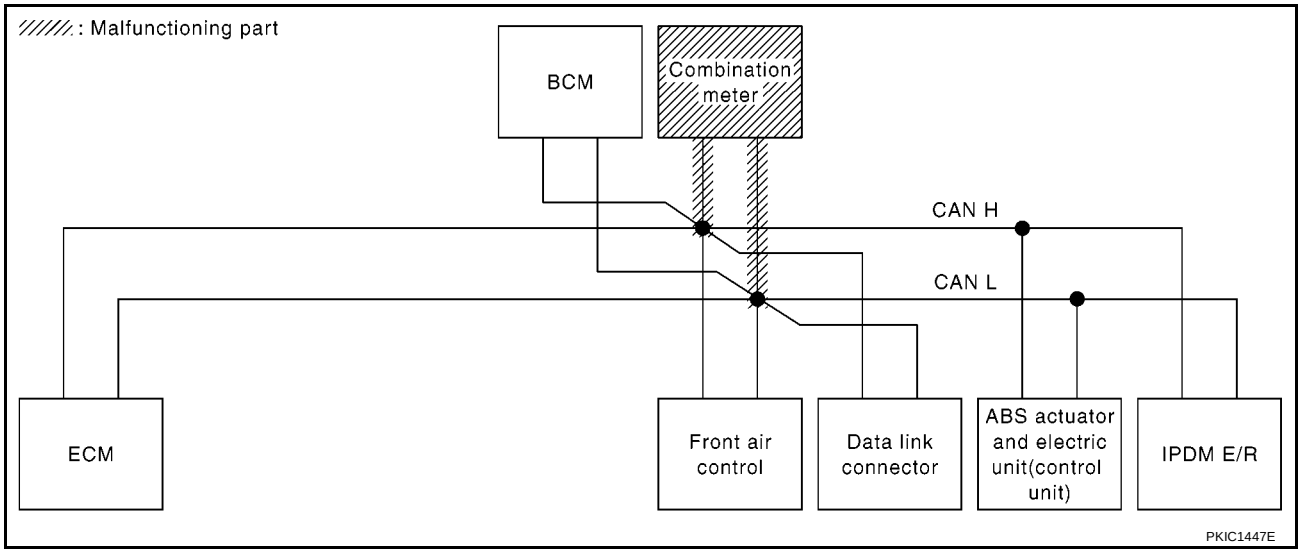
PKIC1446E

Case 6

Check combination meter circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1745E



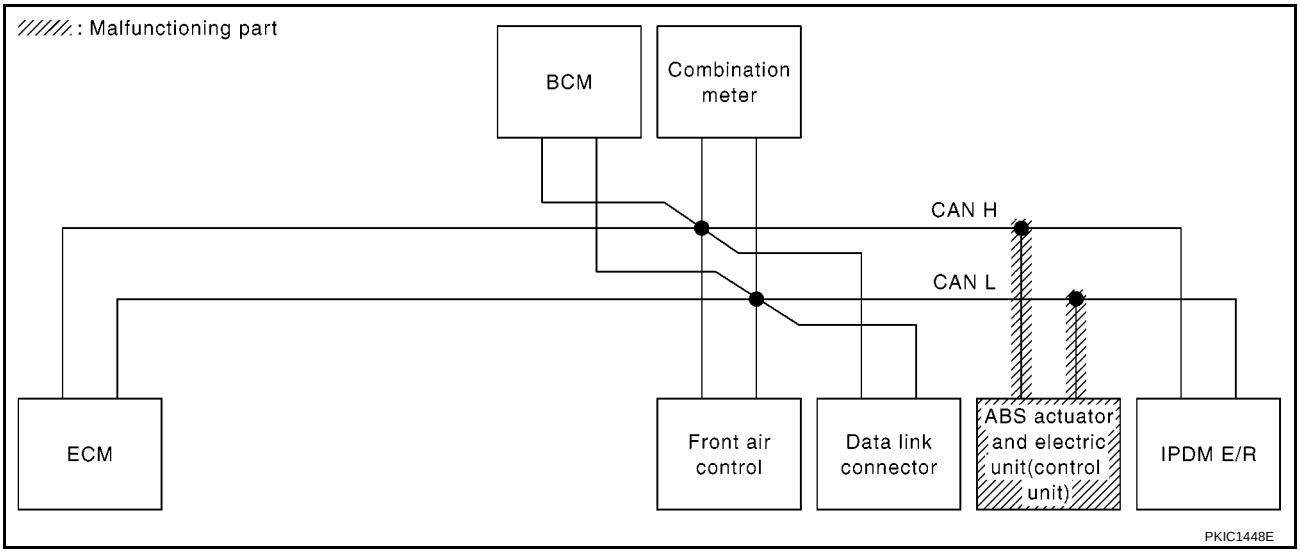
PKIC1447E

Case 7

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1746E



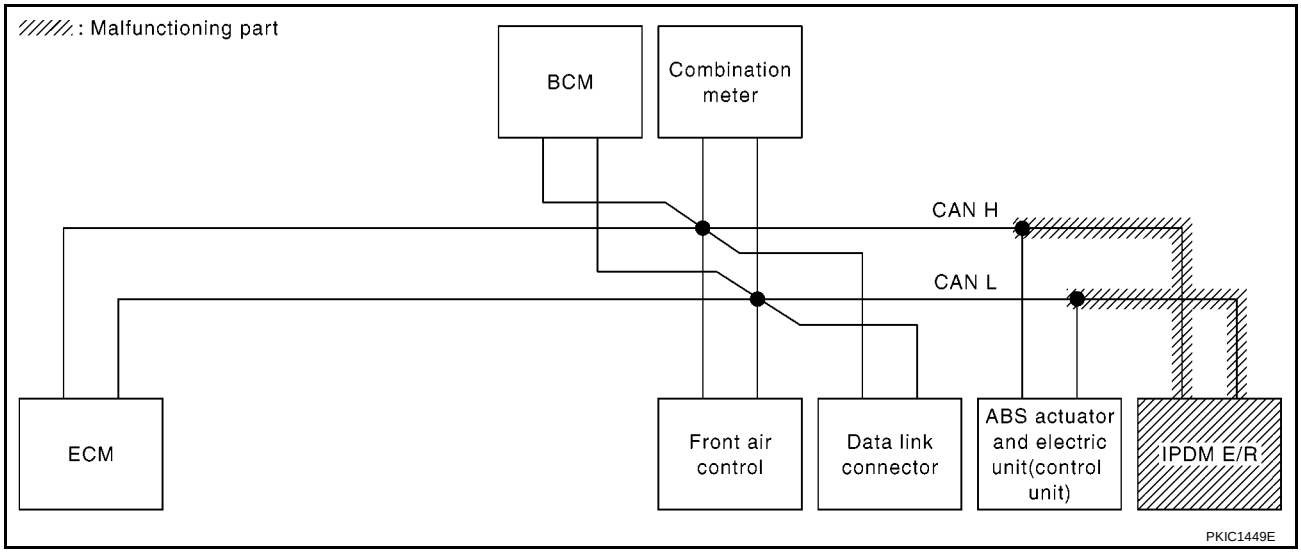
PKIC1448E

Case 8

Check IPDM E/R circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1747E



PKIC1449E

Case 9

Check CAN communication circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1748E

Case 10

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1749E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1750E

CAN SYSTEM (TYPE 3)

PFP:23710

Component Parts and Harness Connector Location

EKS00OKF

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OKG

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OKH

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00QAU

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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	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

PKIC1417E

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
MULTI AV
SELF-DIAG RESULTS

Attach copy of
HVAC
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
METER
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
MULTI AV
CAN DIAG SUPPORT
MNTR

Attach copy of
HVAC
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

PKIC1592E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

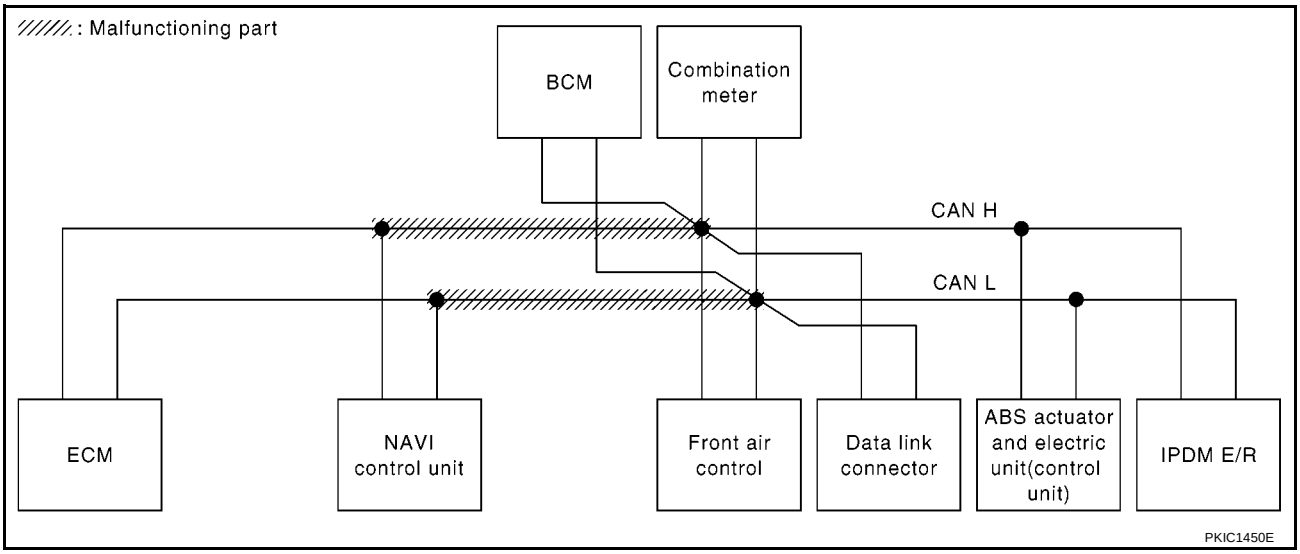
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between NAVI control unit and data link connector circuit. Refer to LAN-295, "Inspection Between NAVI Control Unit and Data Link Connector 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1777E



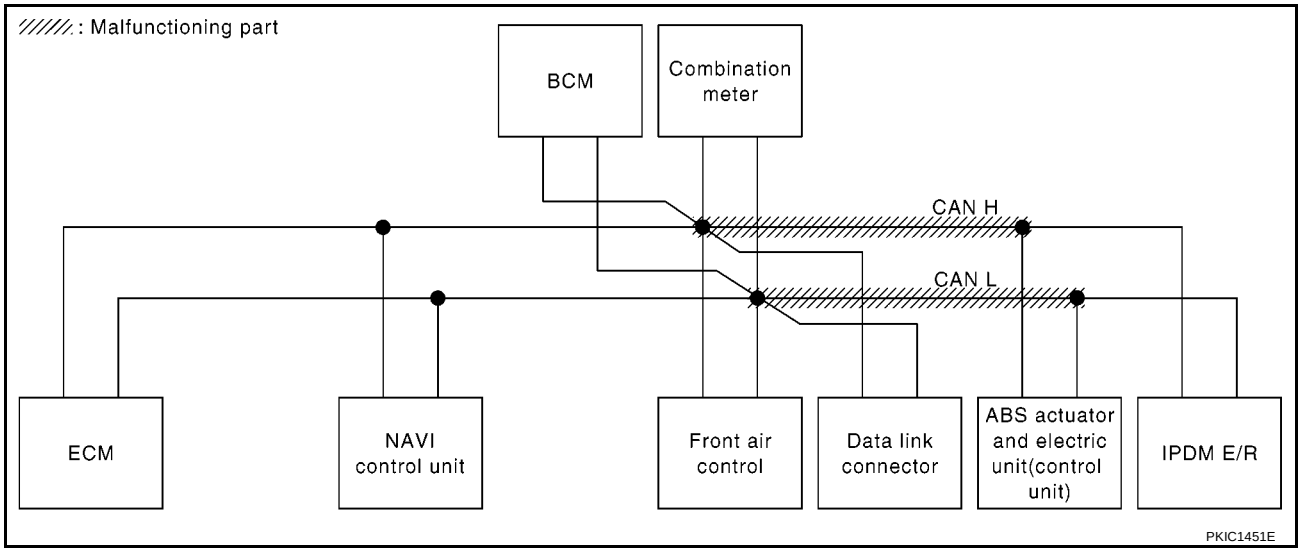
PKIC1450E

Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1778E



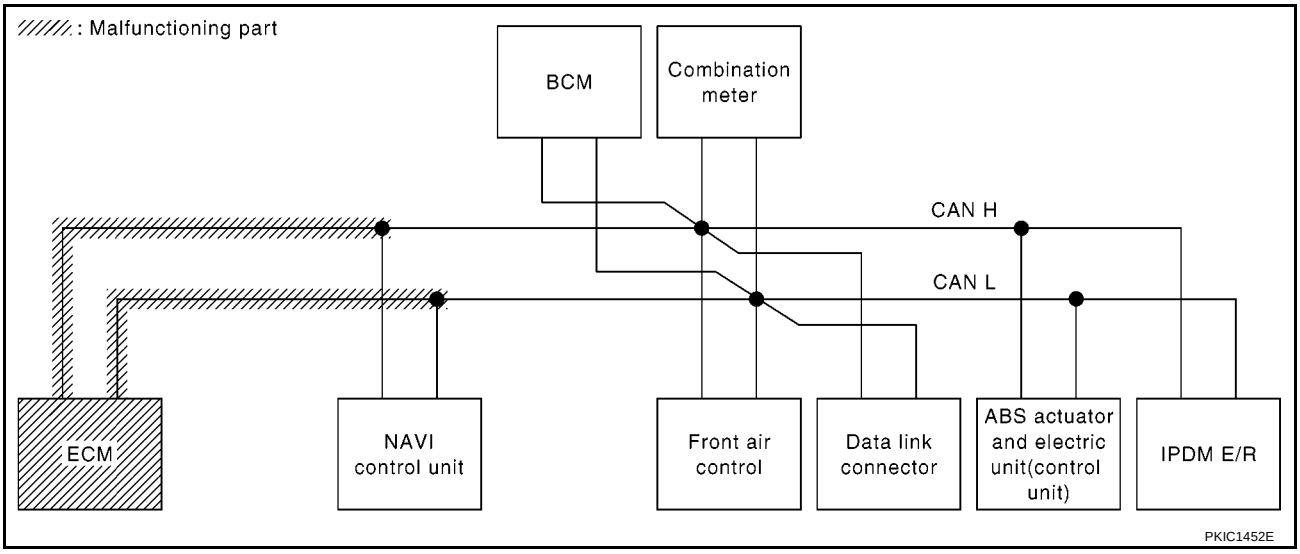
PKIC1451E

Case 3

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1779E



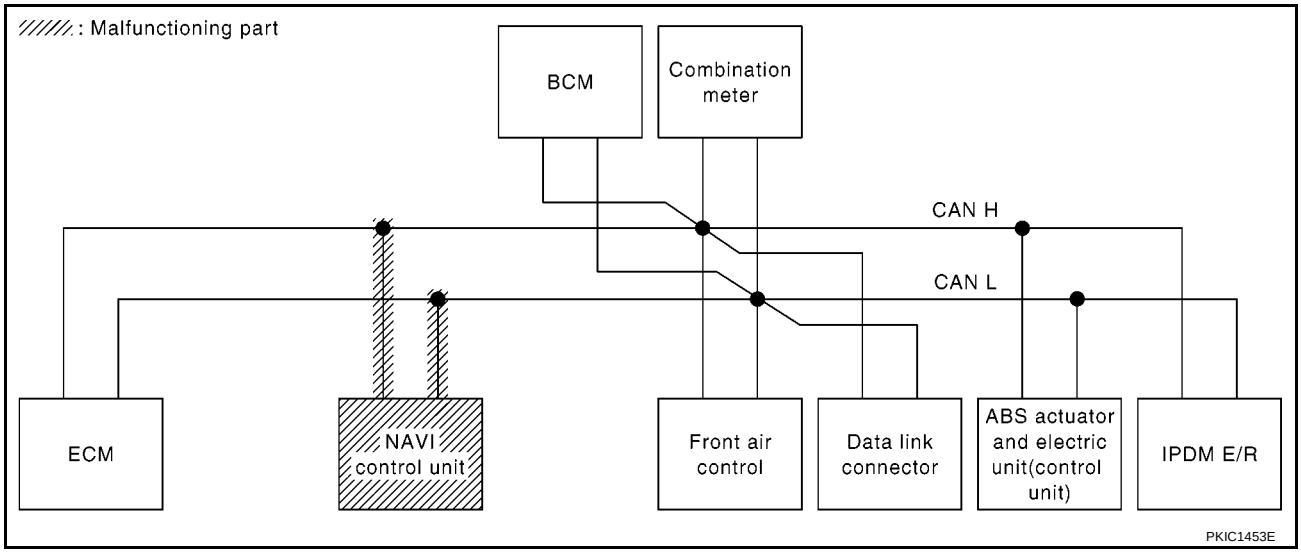
PKIC1452E

Case 4

Check NAVI control unit circuit. Refer to LAN-299, "NAVI 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1780E



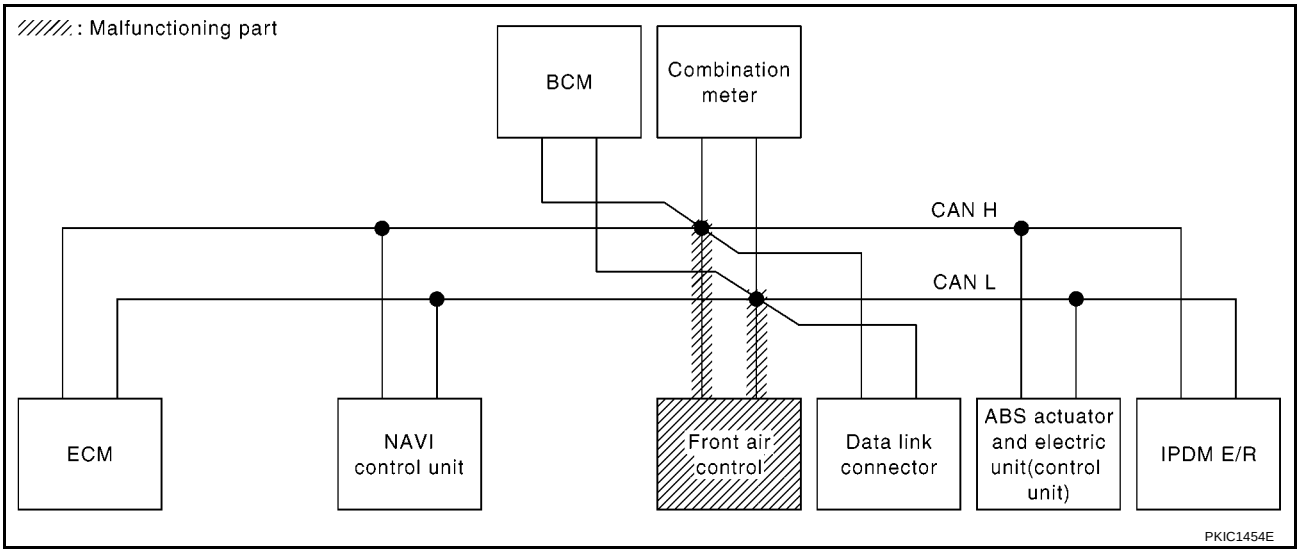
PKIC1453E

Case 5

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1781E



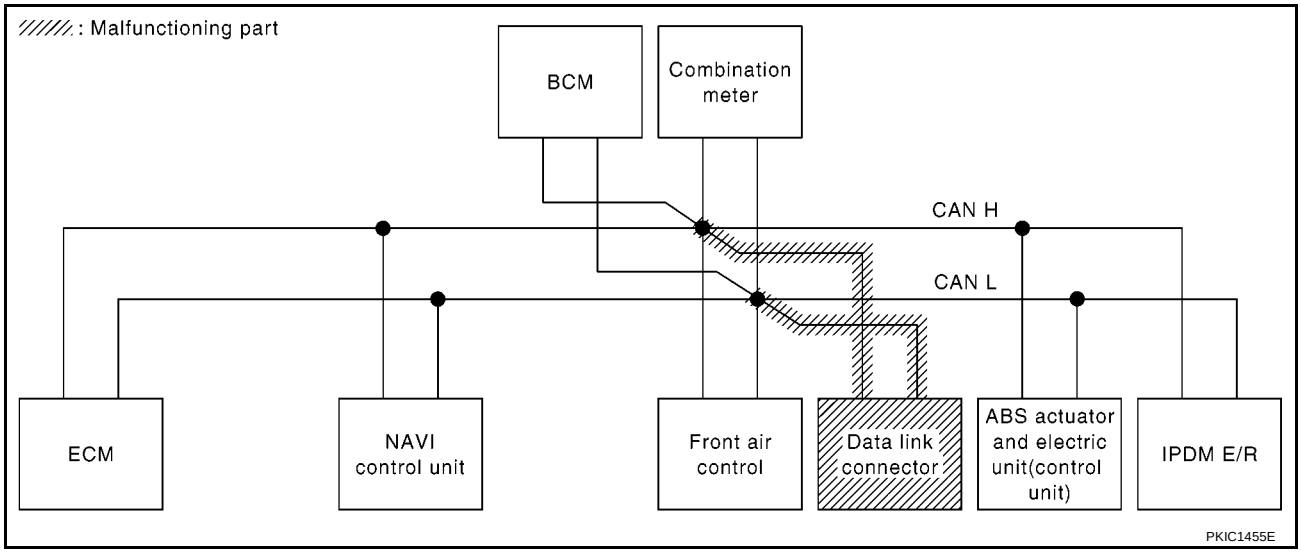
PKIC1454E

Case 6

Check data link connector circuit. Refer to LAN-300, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1782E

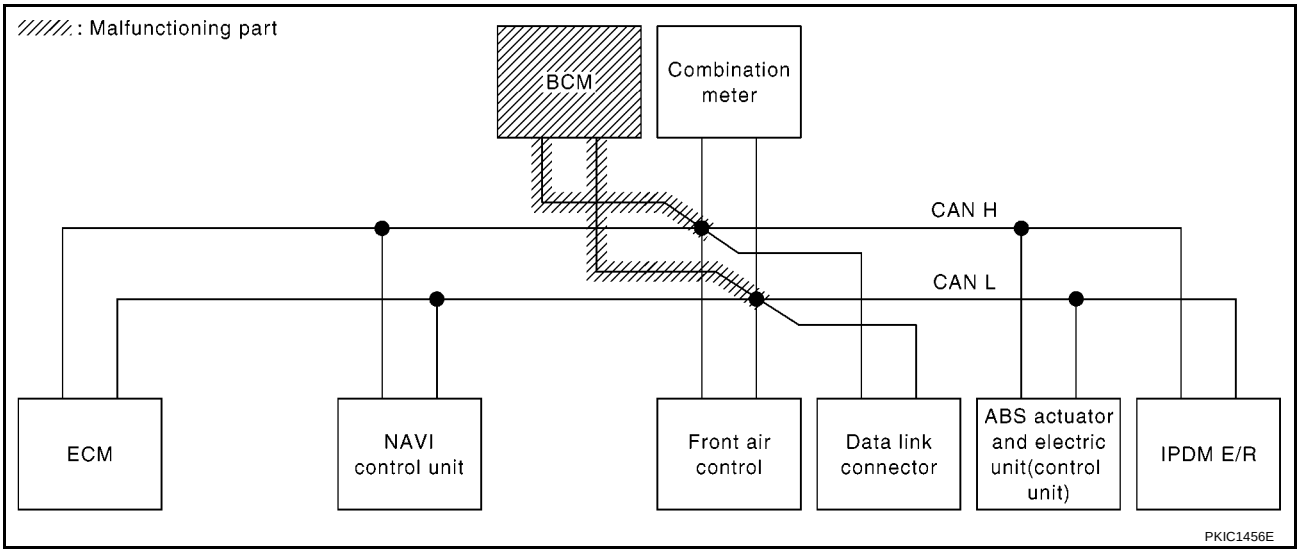


Case 7

Check BCM circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1783E



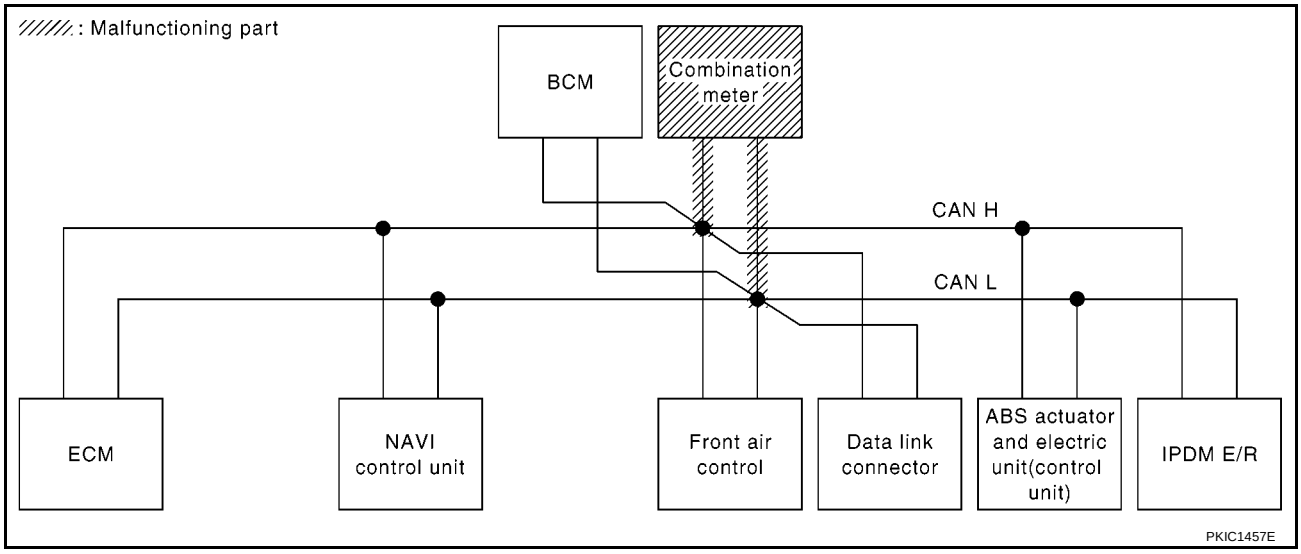
PKIC1456E

Case 8

Check combination meter circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1784E



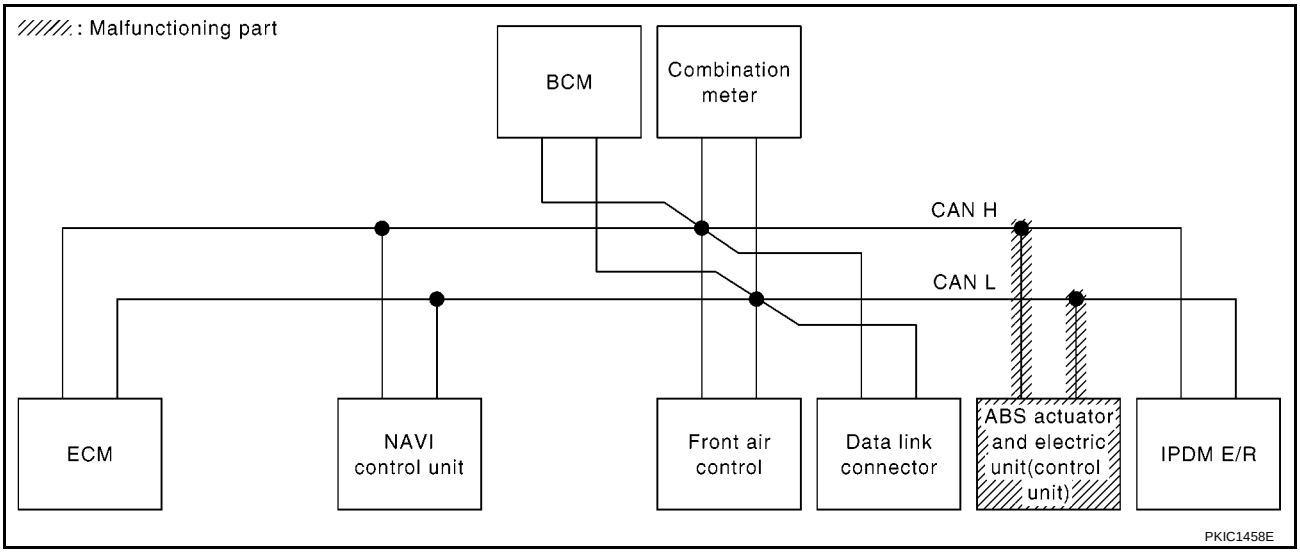
PKIC1457E

Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1785E



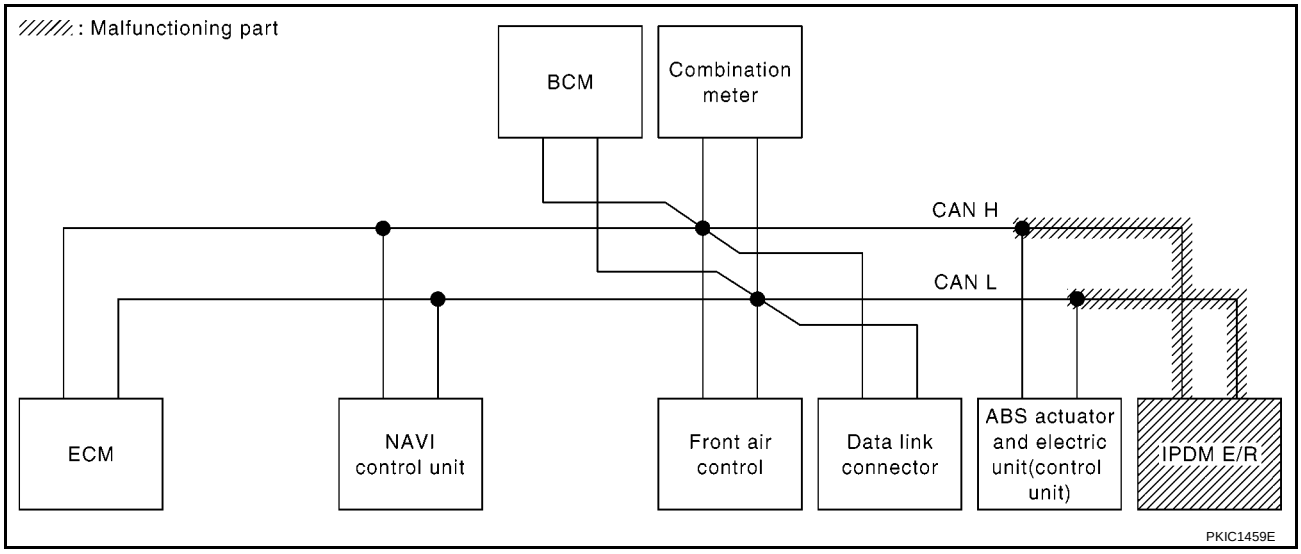
PKIC1458E

Case 10

Check IPDM E/R circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1786E



PKIC1459E

Case 11

Check CAN communication circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1787E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1788E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1789E

CAN SYSTEM (TYPE 4)

PFP:23710

Component Parts and Harness Connector Location

EKS00OJZ

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OK0

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OK1

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00QAV

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

Check sheet table

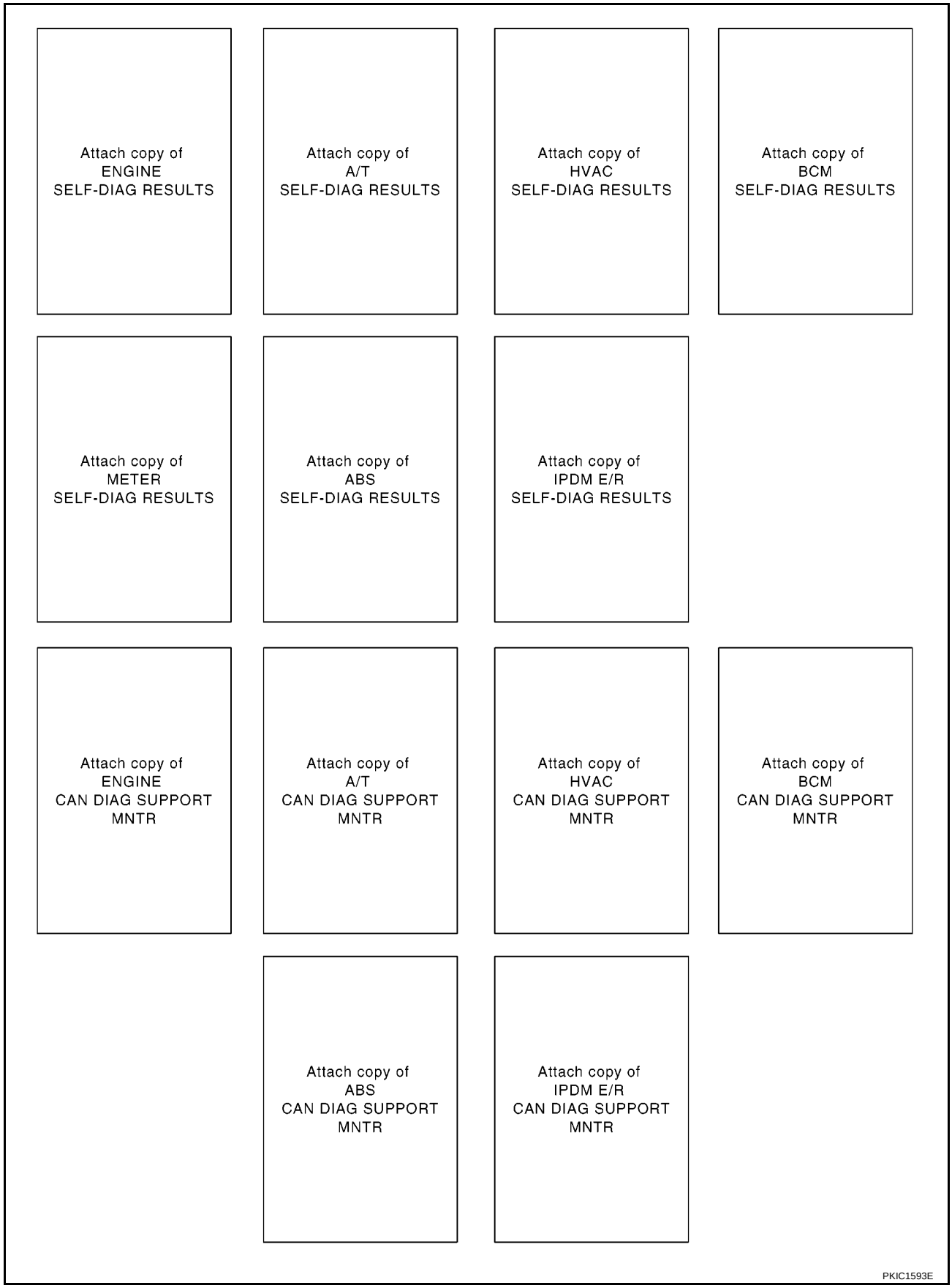
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM/SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT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

PKIC1418E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
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
A/T
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
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
PKIC1593E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

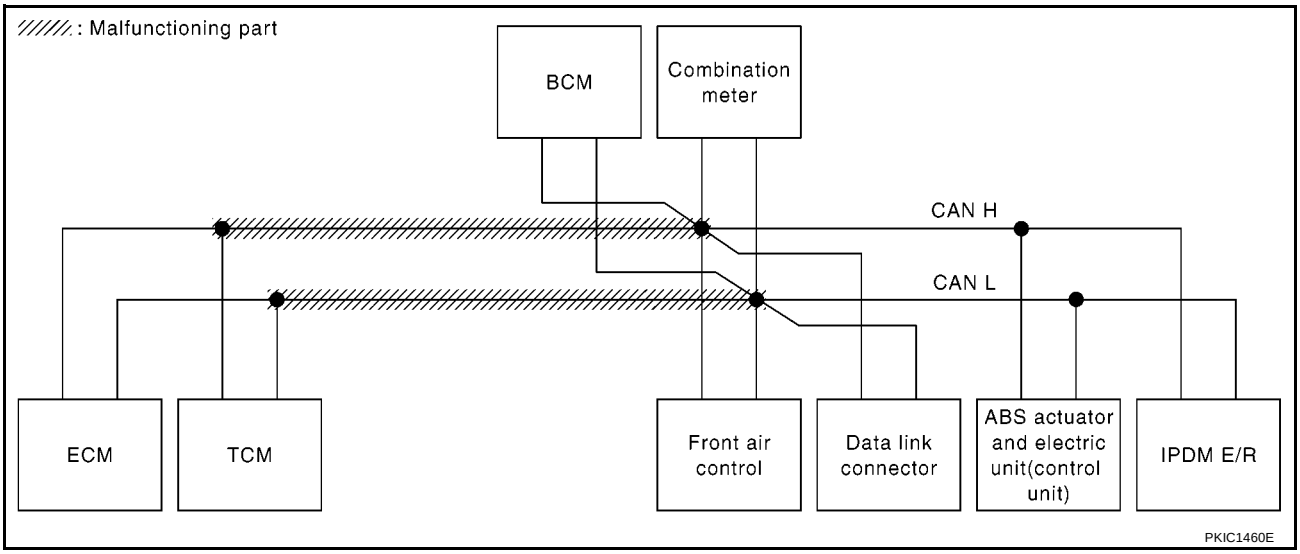
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector circuit. Refer to LAN-292, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1805E



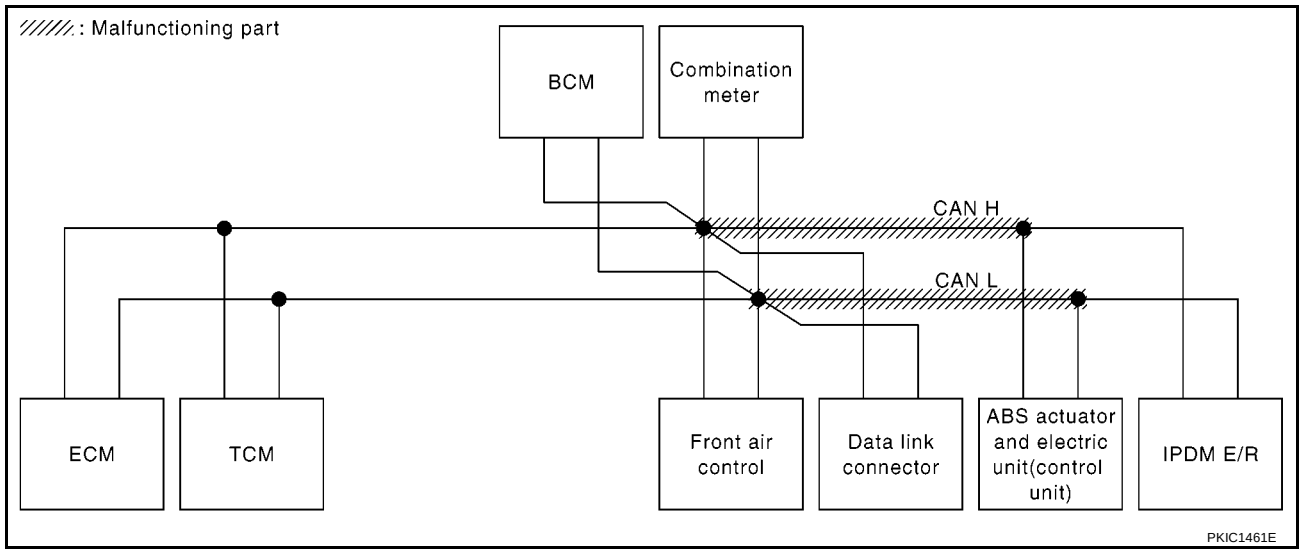
PKIC1460E

Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1806E



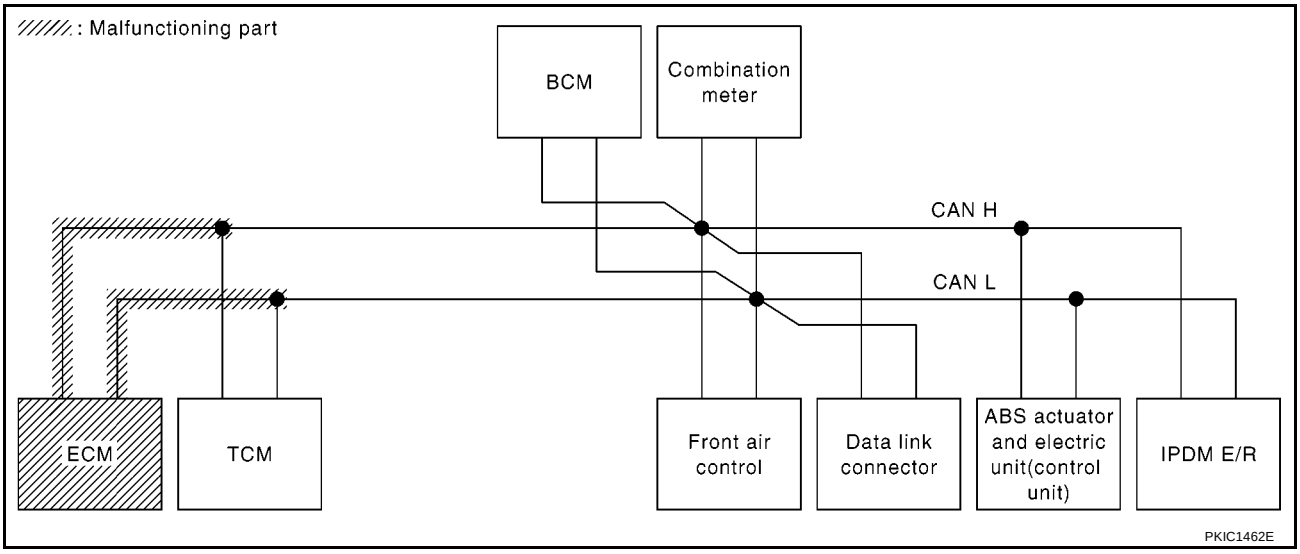
PKIC1461E

Case 3

Check ECM circuit. Refer to LAN-298, "ECM Circuit Inspection for A/T Models" .

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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1807E



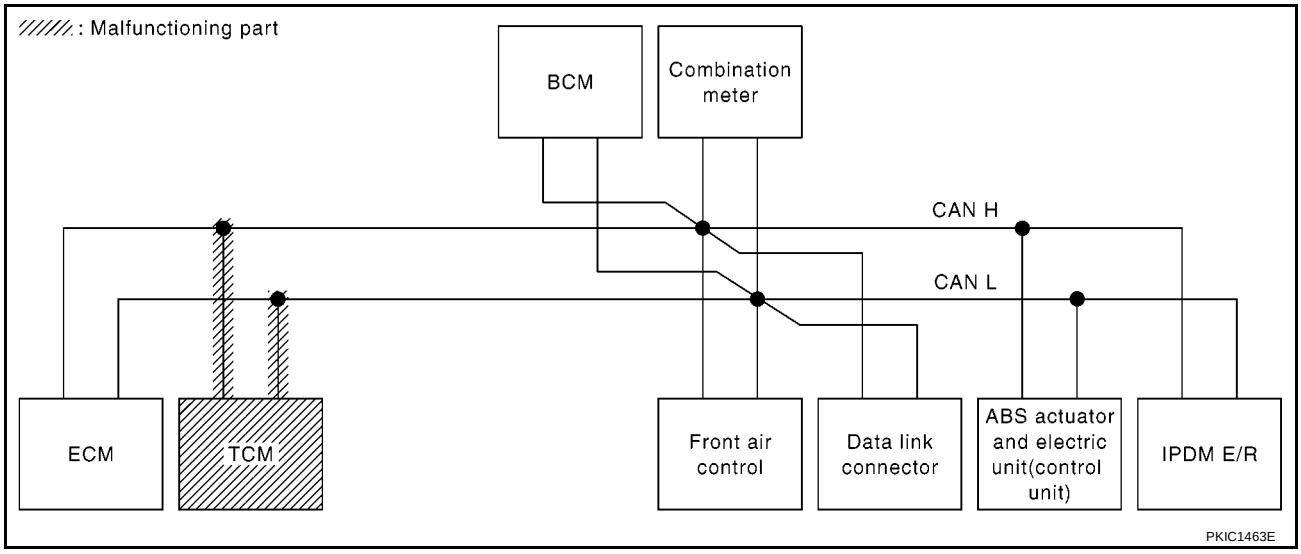
PKIC1462E

Case 4

Check TCM circuit. Refer to LAN-298, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1808E



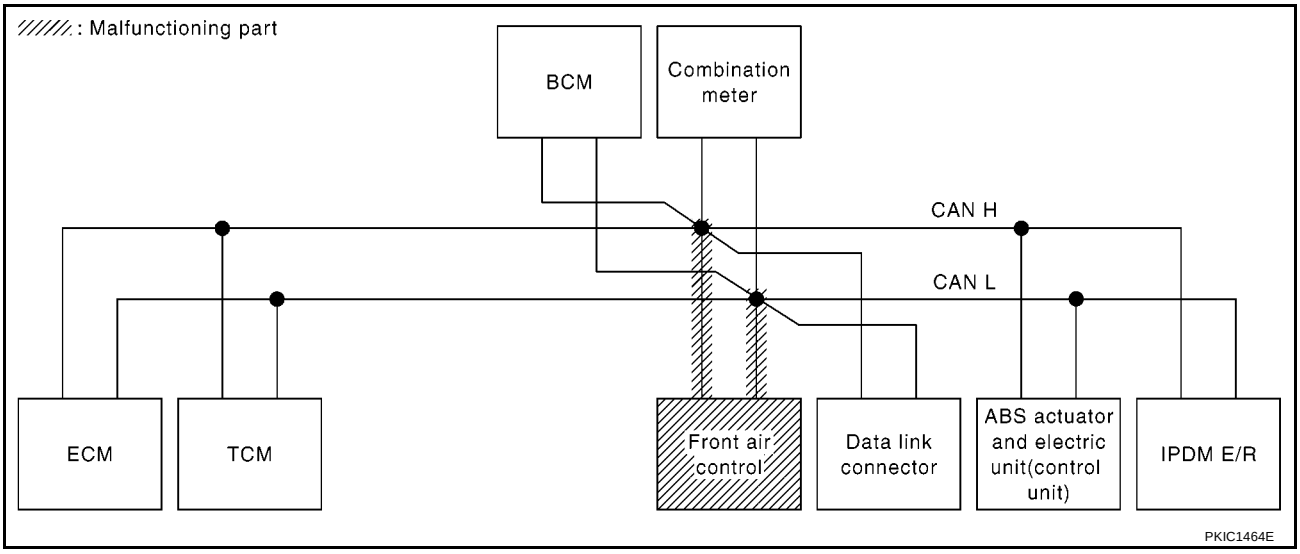
PKIC1463E

Case 5

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1809E



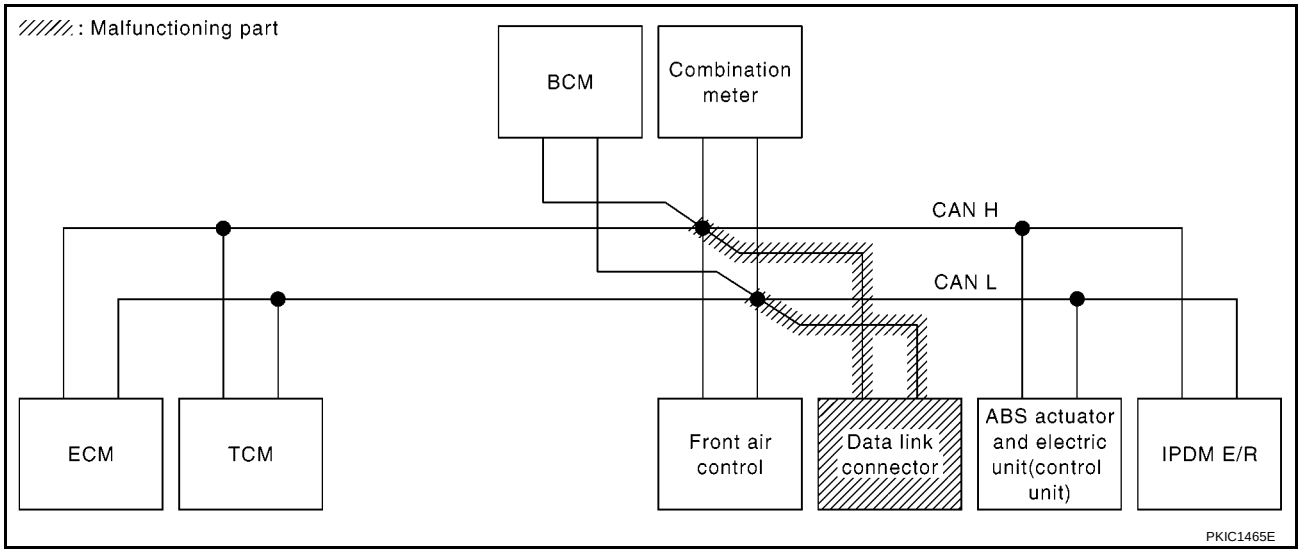
PKIC1464E

Case 6

Check data link connector circuit. Refer to LAN-300, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1810E



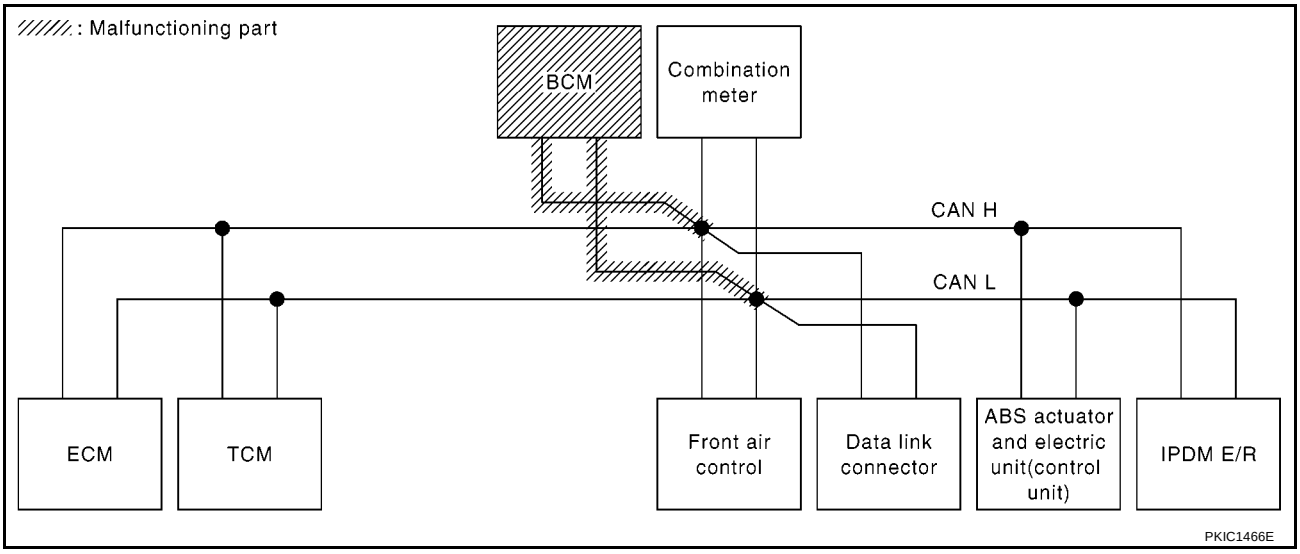
PKIC1465E

Case 7

Check BCM circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN ✓	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1811E



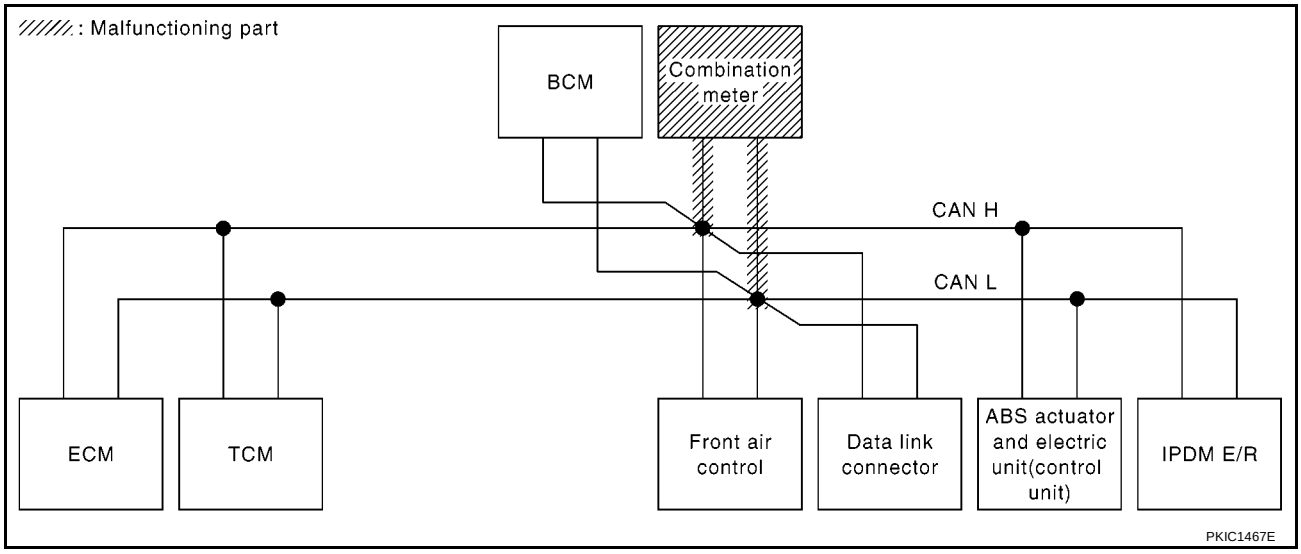
PKIC1466E

Case 8

Check combination meter circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1812E



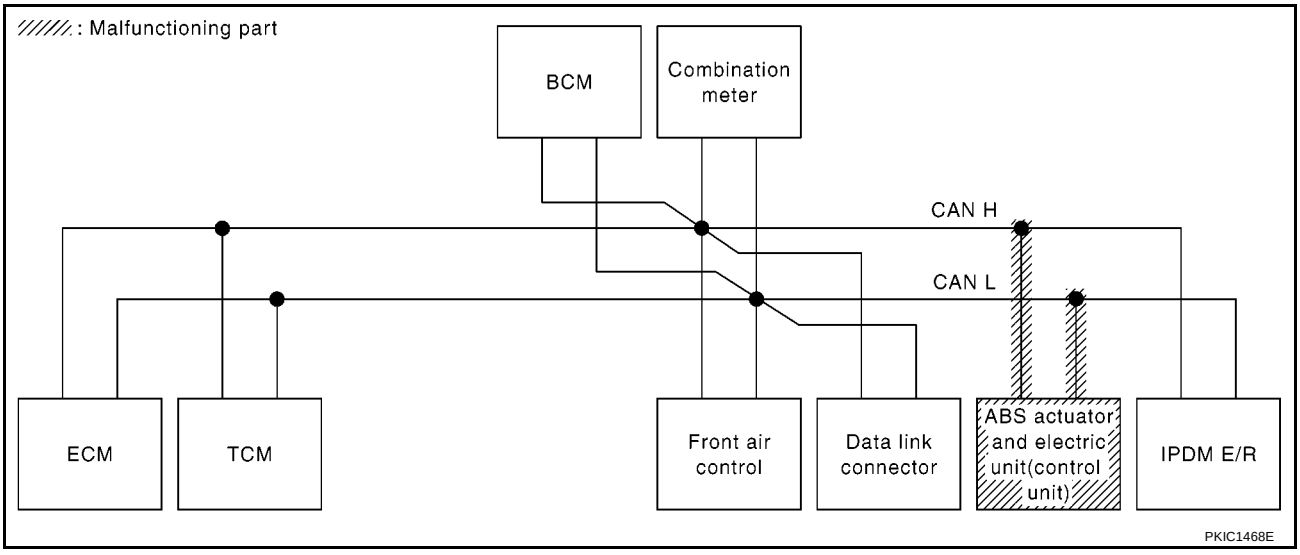
PKIC1467E

Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1813E



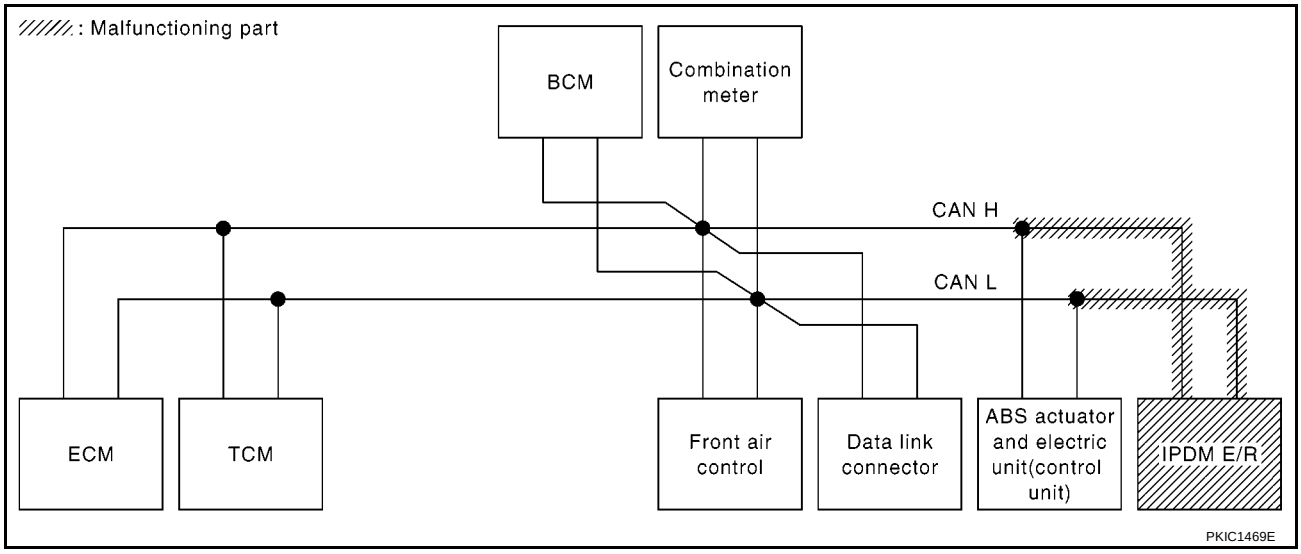
PKIC1468E

Case 10

Check IPDM E/R circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1814E



PKIC1469E

Case 11

Check CAN communication circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1815E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1816E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1817E

CAN SYSTEM (TYPE 5)

PFP:23710

Component Parts and Harness Connector Location

EKS00OJV

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OJW

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OJX

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00QAW

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

Check sheet table

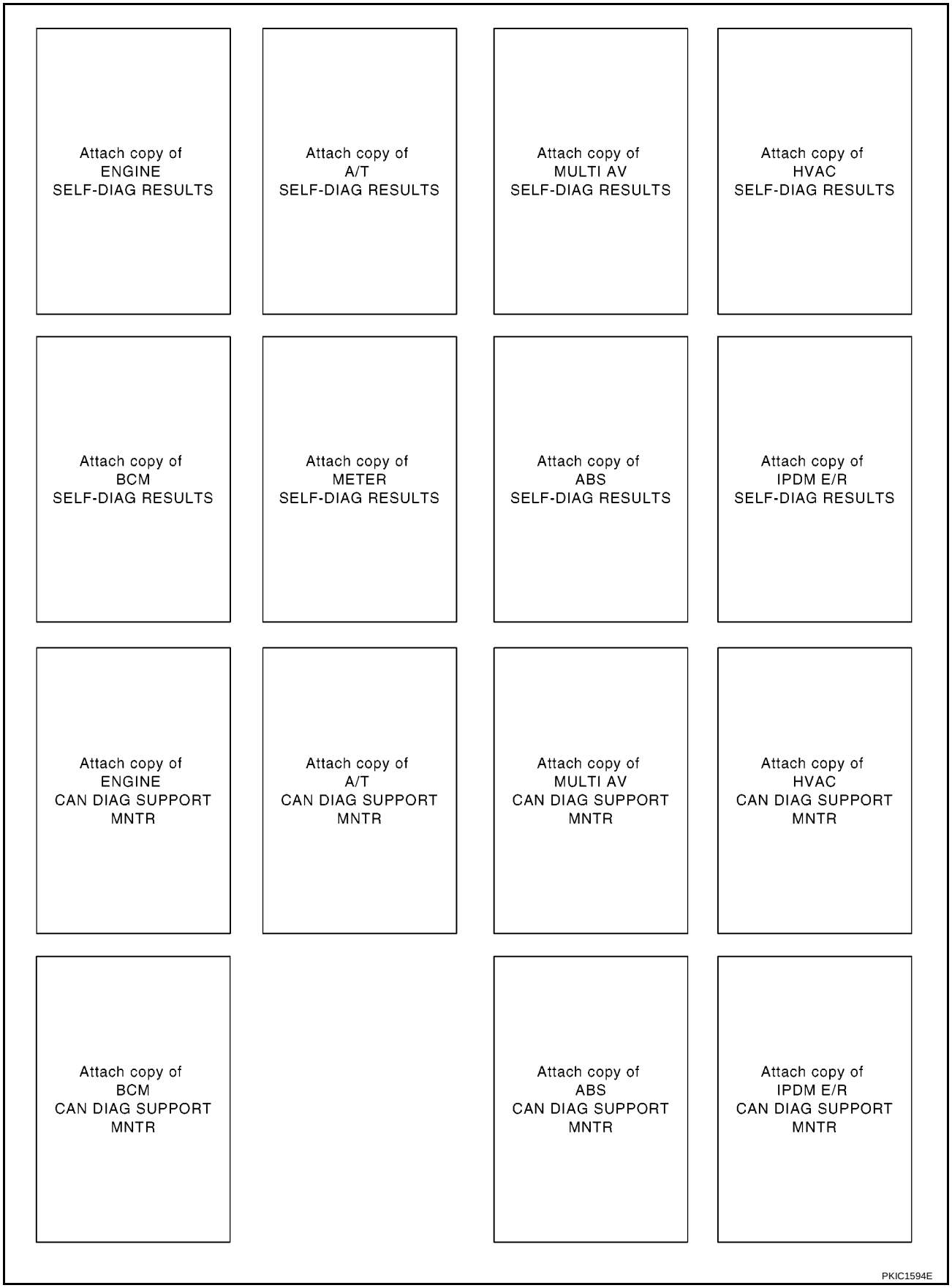
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM/SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT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

PKIC1419E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
MULTI AV
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
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
A/T
CAN DIAG SUPPORT
MNTR
Attach copy of
MULTI AV
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
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
PKIC1594E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

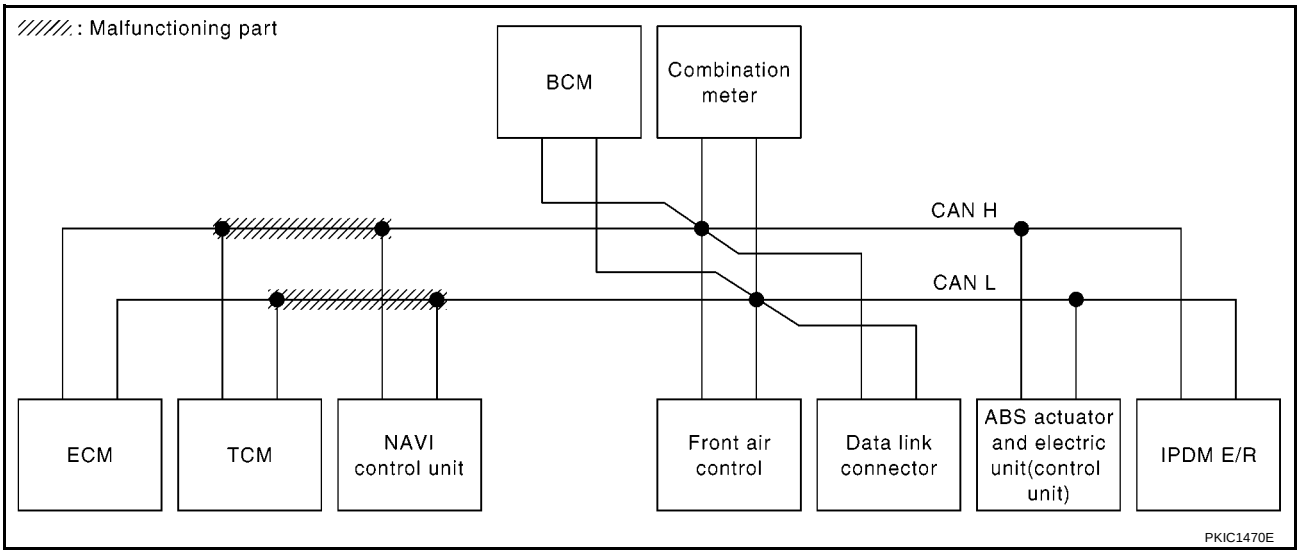
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and NAVI control unit circuit. Refer to LAN-293, "Inspection Between TCM and NAVI 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	—	NG	UNKWN	—	UNKWN	✓	✓	—	—	✓
A/T	—	NG	UNKWN	UNKWN	—	—	✓	—	—	✓
MULTI AV	No indication	—	UNKWN	✓	—	—	UNKWN	—	—	✓
HVAC	No indication	—	UNKWN	✓	—	UNKWN	—	UNKWN	—	✓
BCM	No indication	NG	UNKWN	✓	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	✓
ABS	—	NG	UNKWN	✓	—	—	—	—	—	✓
IPDM E/R	No indication	—	UNKWN	✓	—	UNKWN	—	—	—	✓

PKIC1818E



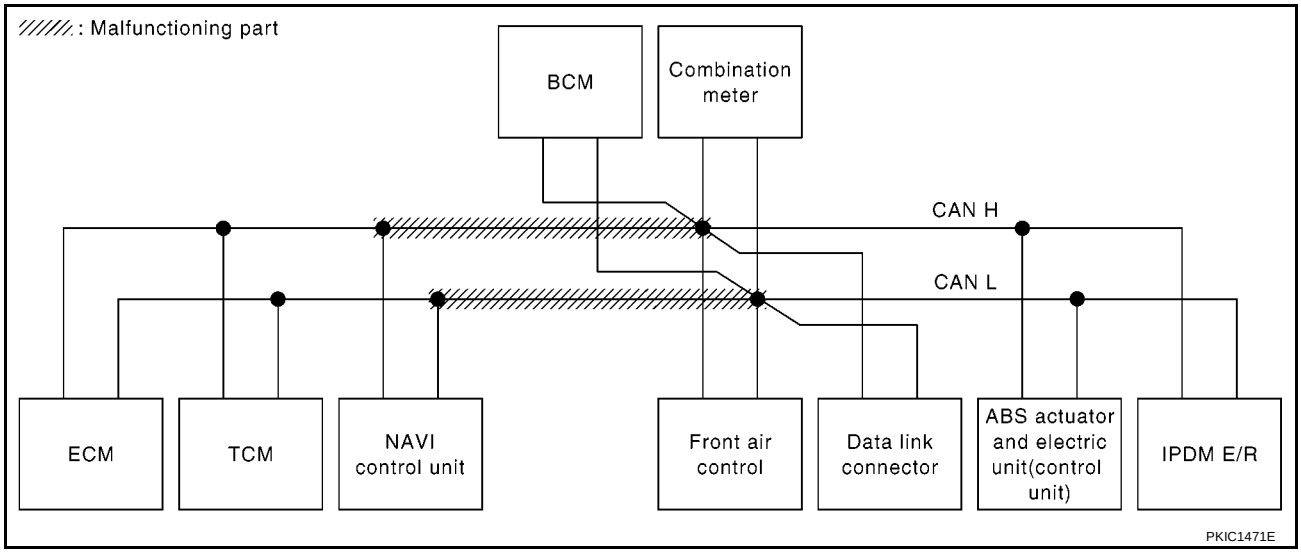
PKIC1470E

Case 2

Check harness between NAVI control unit and data link connector circuit. Refer to LAN-295, "Inspection Between NAVI Control Unit 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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1819E



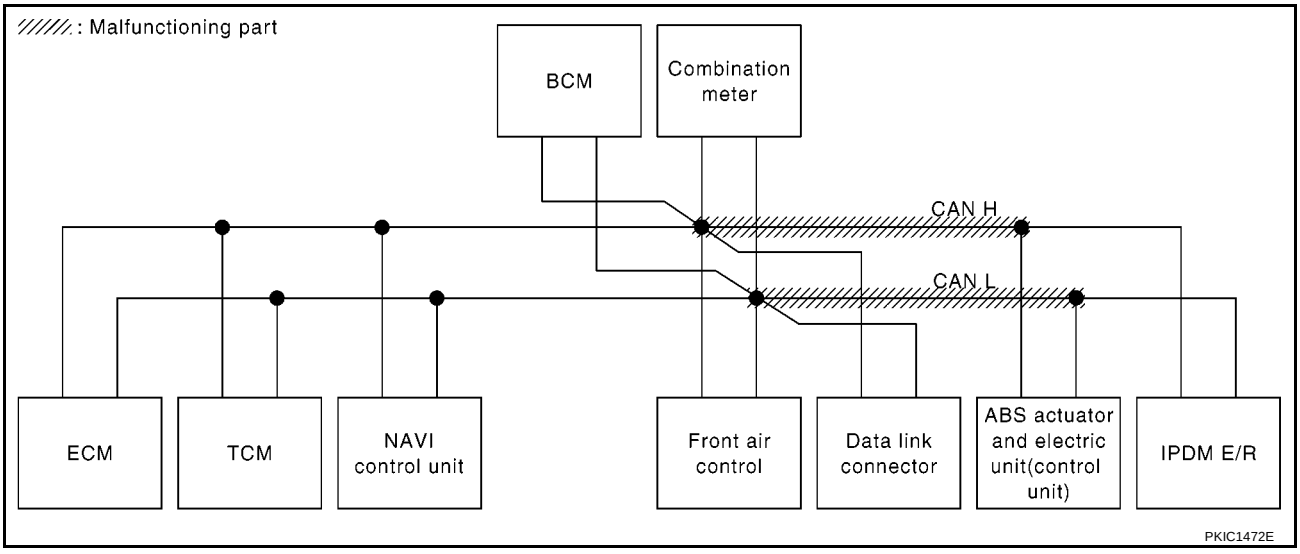
PKIC1471E

Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1820E



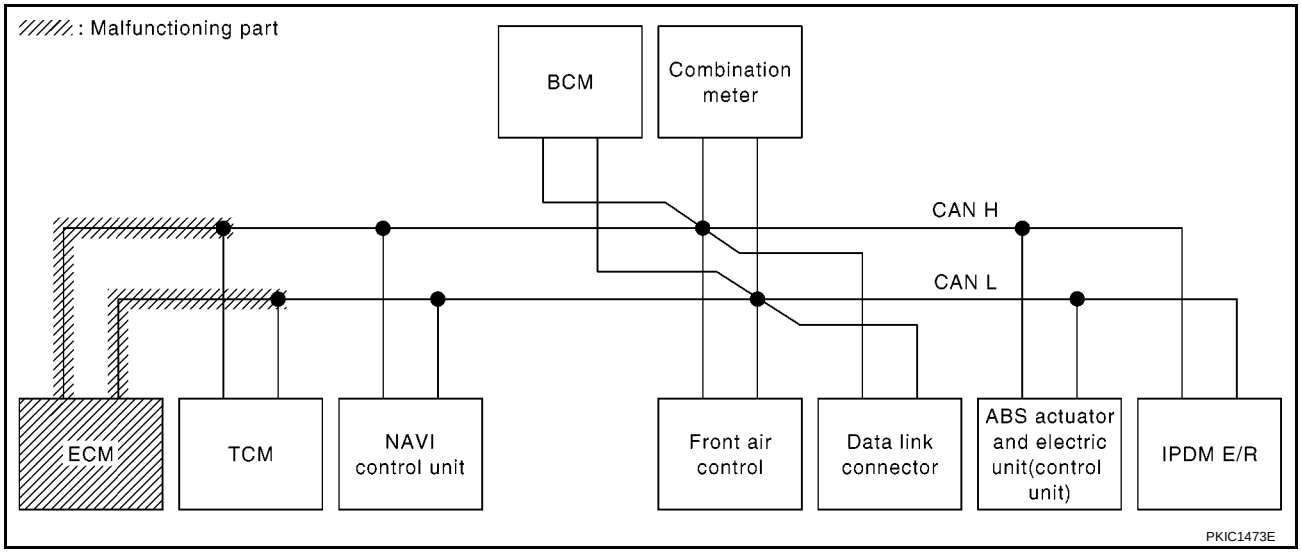
PKIC1472E

Case 4

Check ECM circuit. Refer to LAN-298, "ECM Circuit Inspection for A/T Models" .

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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1821E

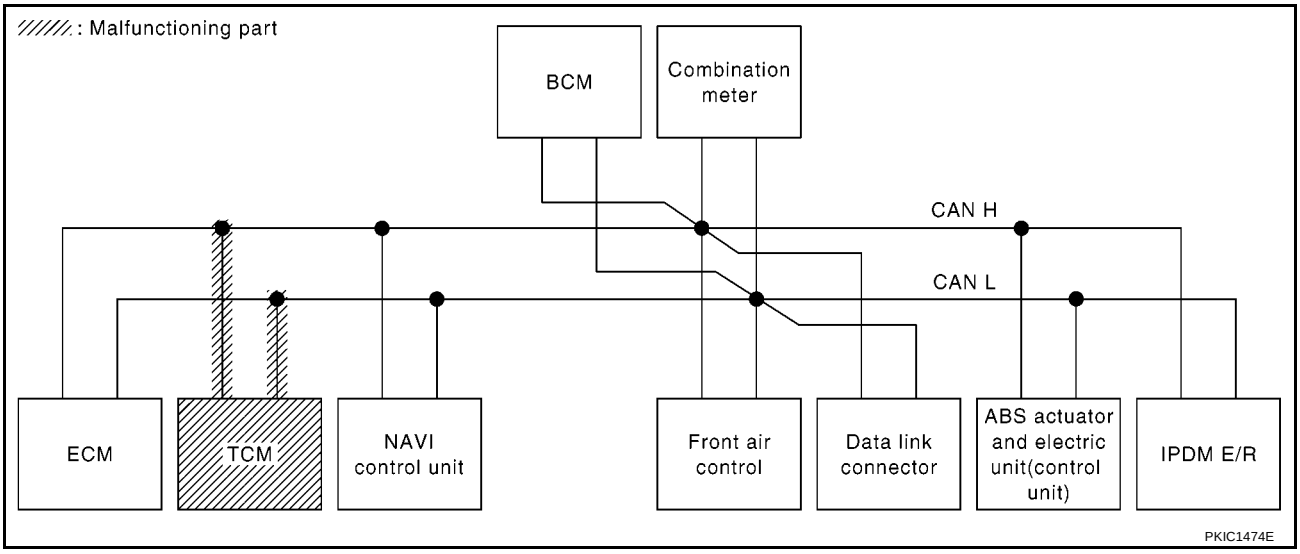


Case 5

Check TCM circuit. Refer to LAN-298, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1822E

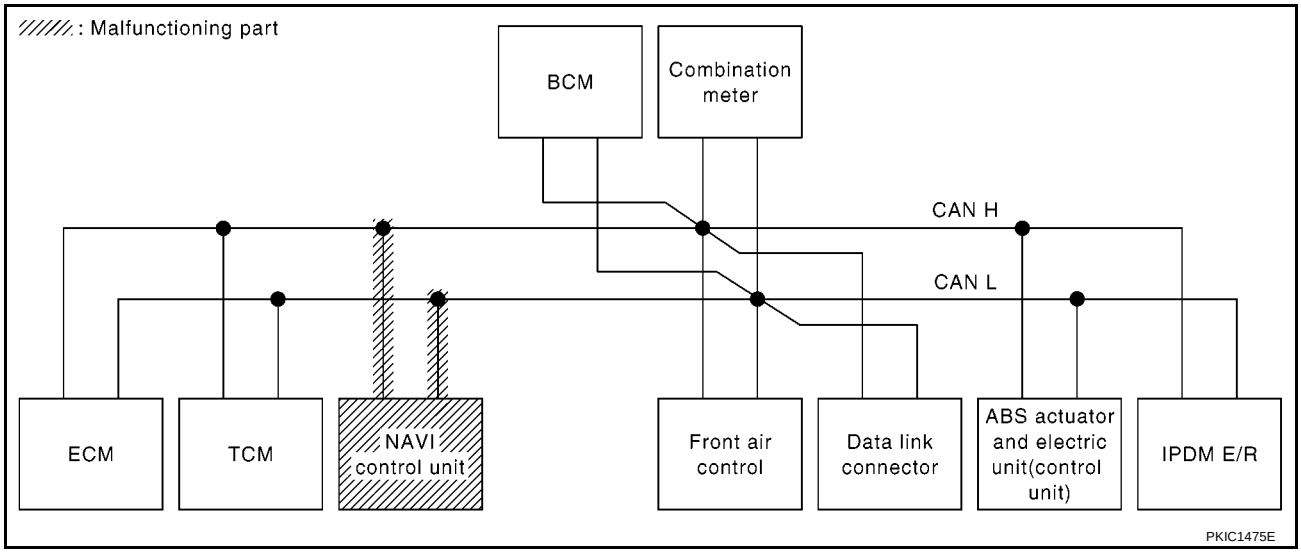


Case 6

Check NAVI control unit circuit. Refer to LAN-299, "NAVI 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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1823E



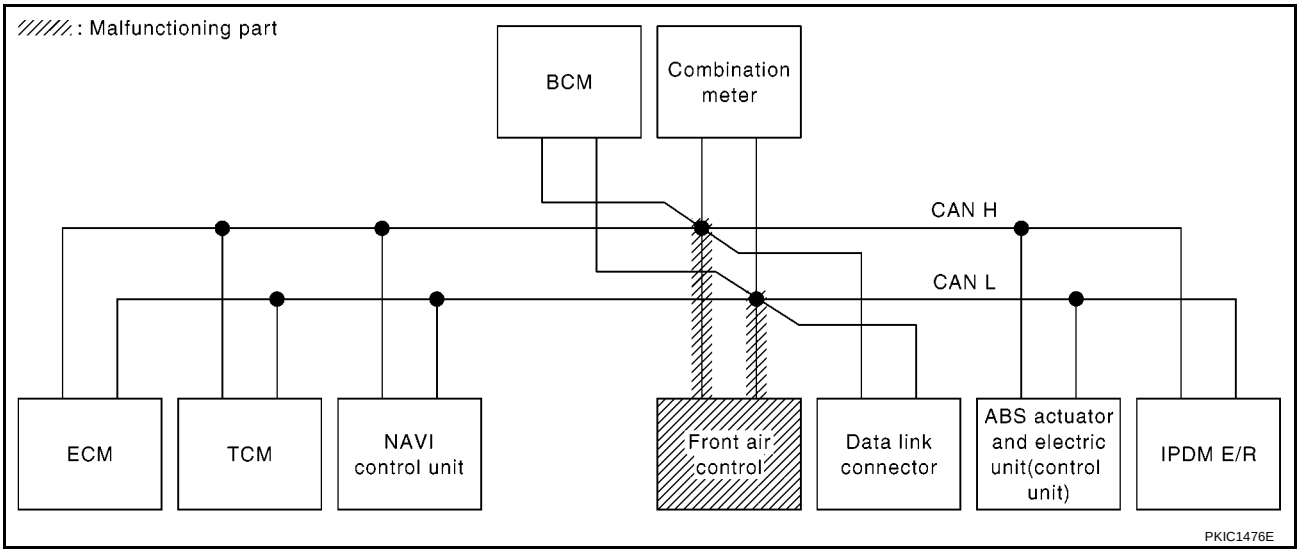
PKIC1475E

Case 7

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1824E



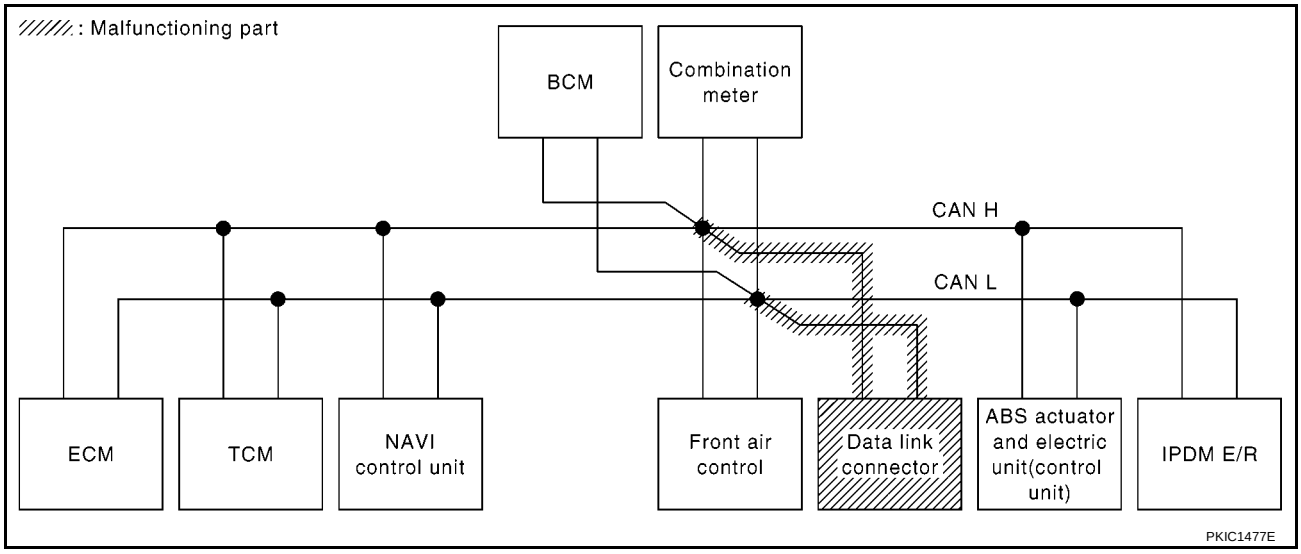
PKIC1476E

Case 8

Check data link connector circuit. Refer to LAN-300, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1825E



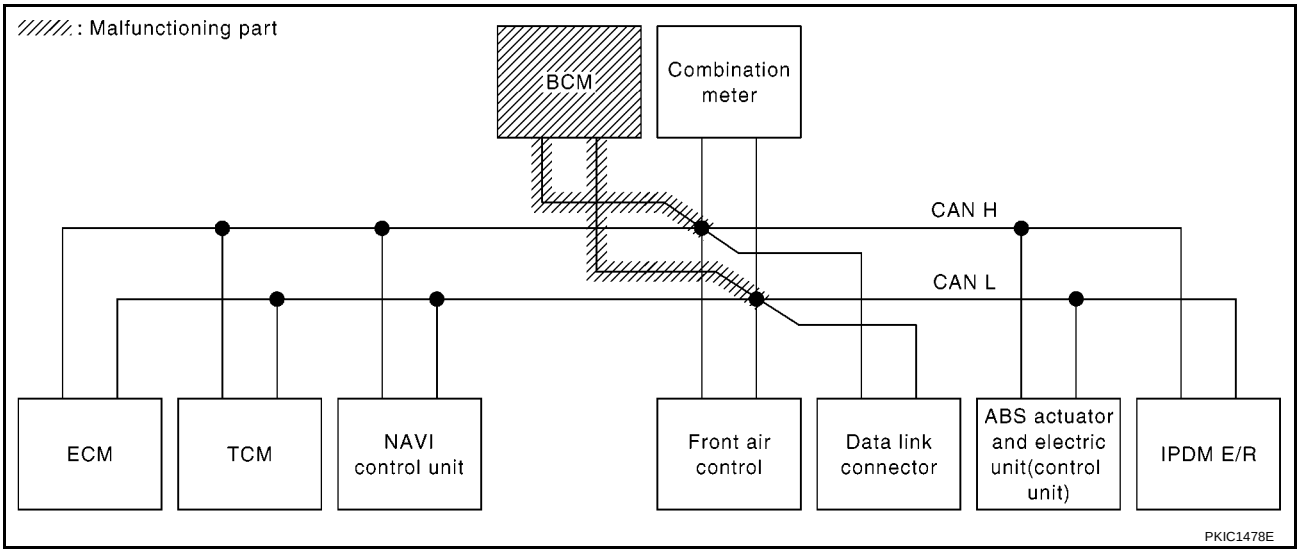
PKIC1477E

Case 9

Check BCM circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1826E



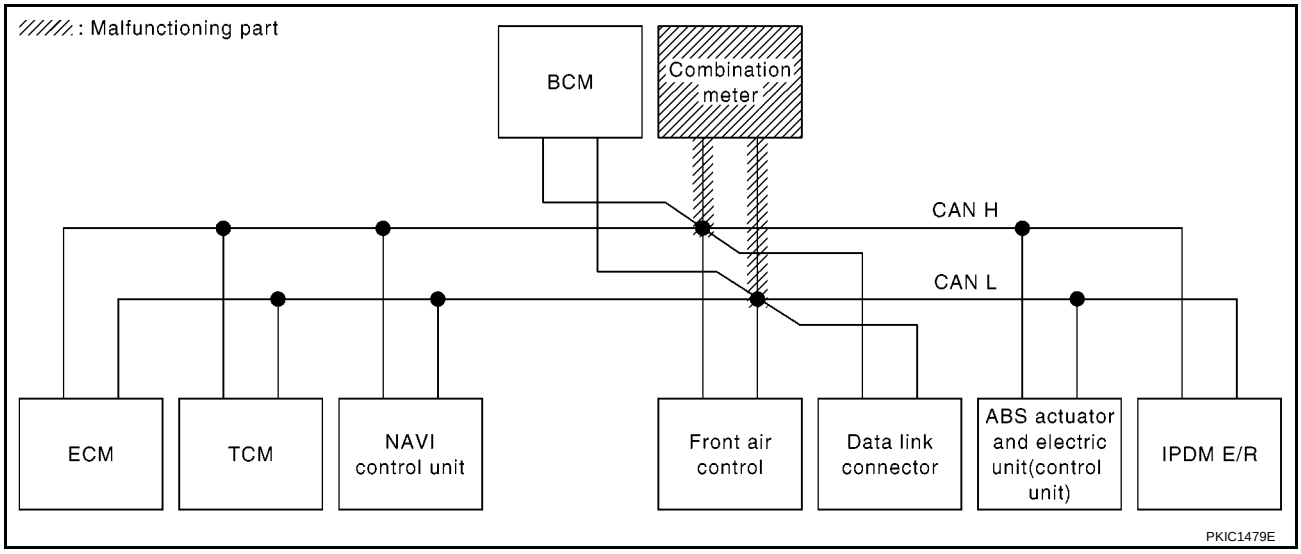
PKIC1478E

Case 10

Check combination meter circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1827E

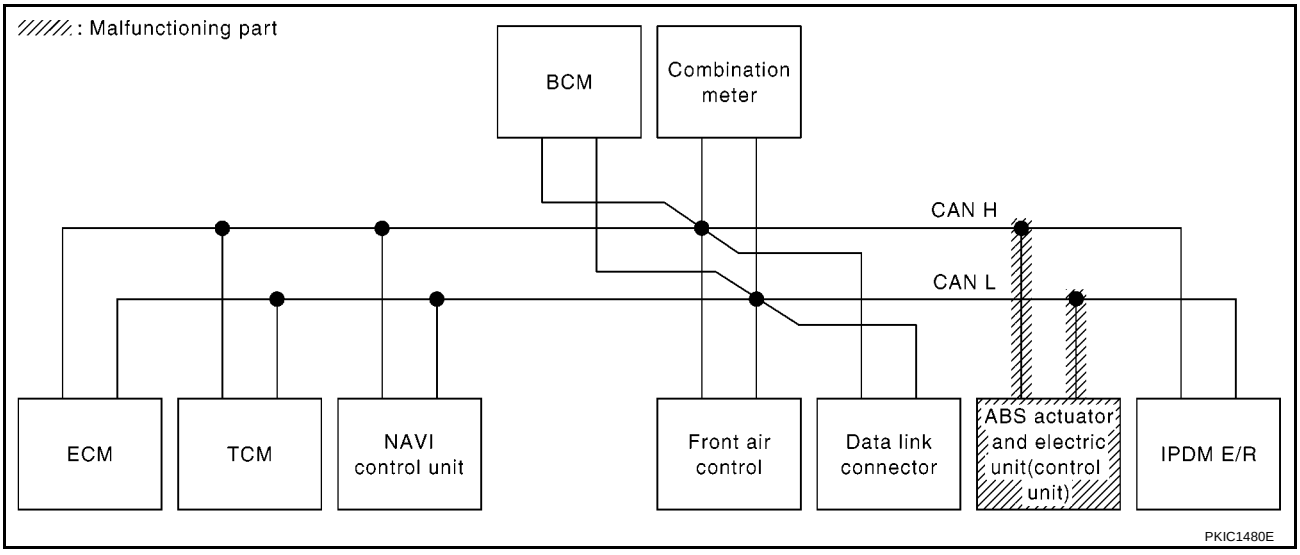


Case 11

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1828E



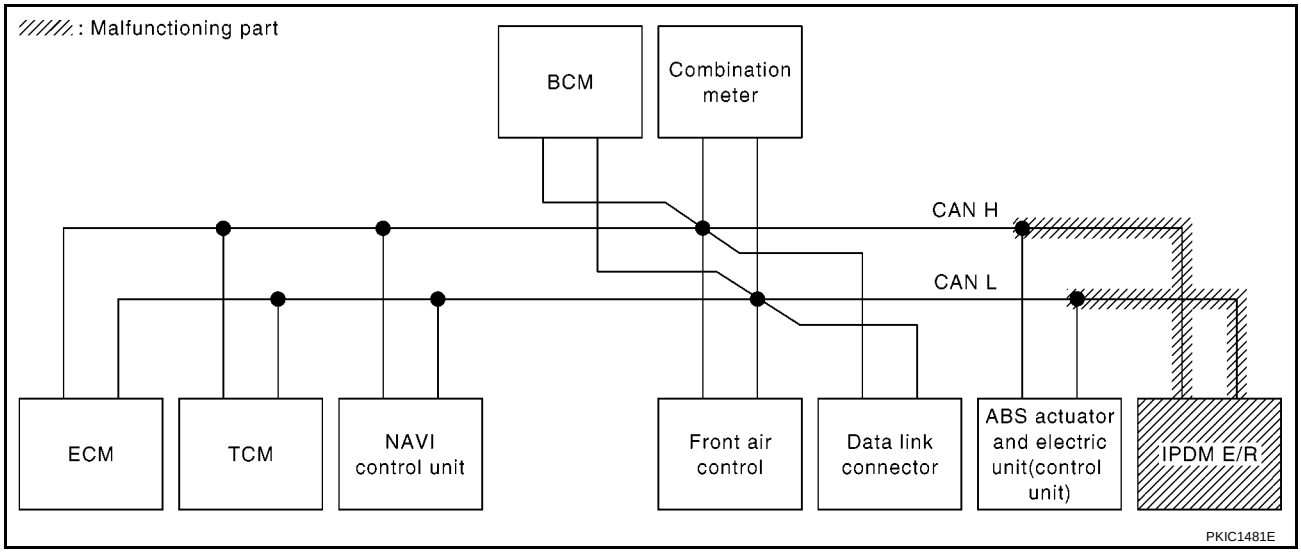
PKIC1480E

Case 12

Check IPDM E/R circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1829E



PKIC1481E

Case 13

Check CAN communication circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1830E

Case 14

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1831E

Case 15

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1832E

CAN SYSTEM (TYPE 6)

PFP:23710

Component Parts and Harness Connector Location

EKS00OIM

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OIN

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OIO

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00QAX

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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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

PKIC1420E

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of HVAC SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER SELF-DIAG RESULTS
Attach copy of ALL MODE AWD/4WD 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 HVAC CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	
Attach copy of ALL MODE AWD/4WD CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

PKIB9744E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

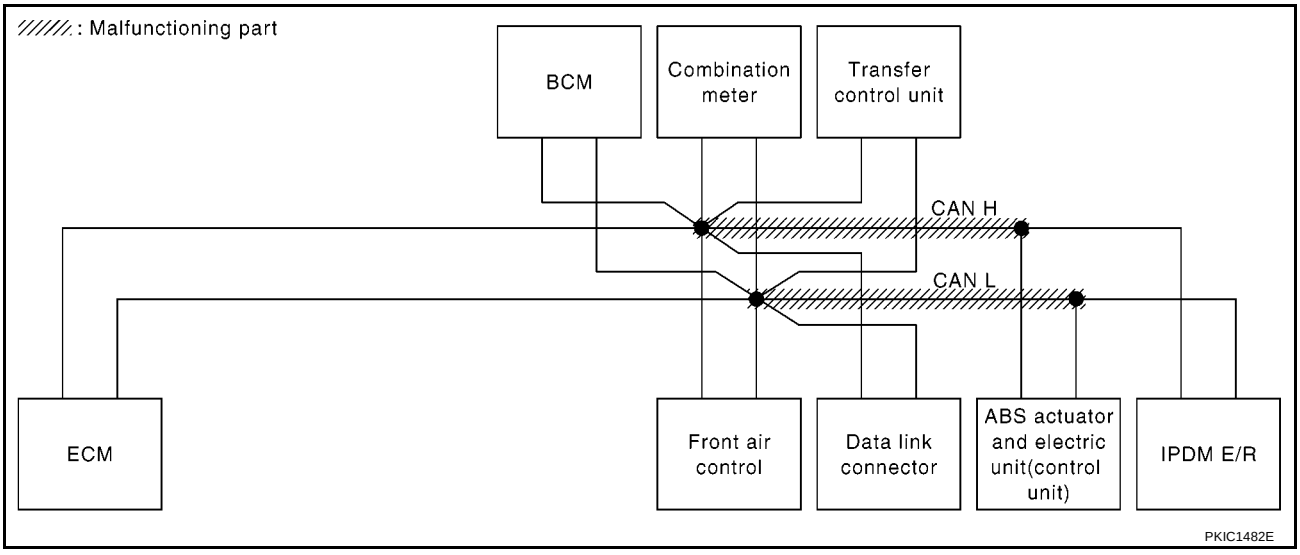
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1833E



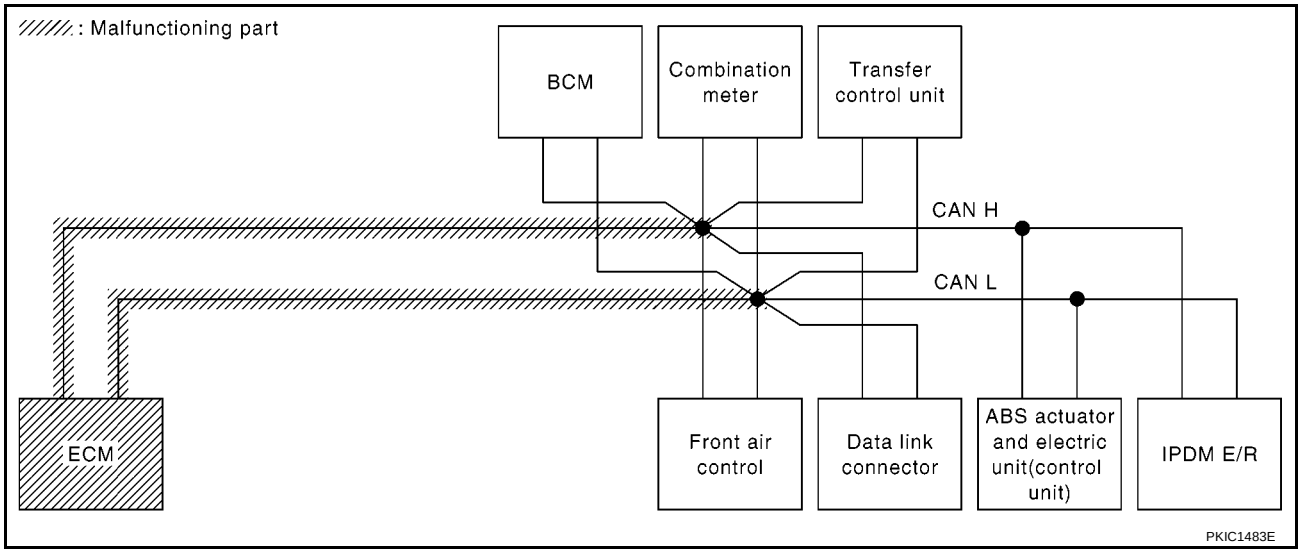
PKIC1482E

Case 2

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1834E



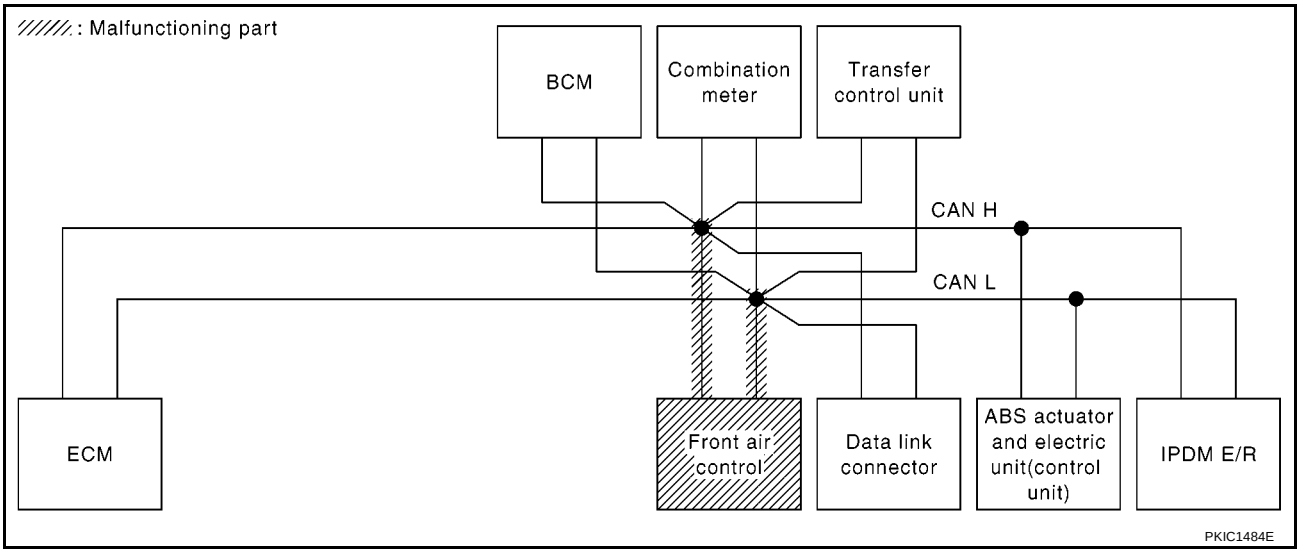
PKIC1483E

Case 3

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1835E



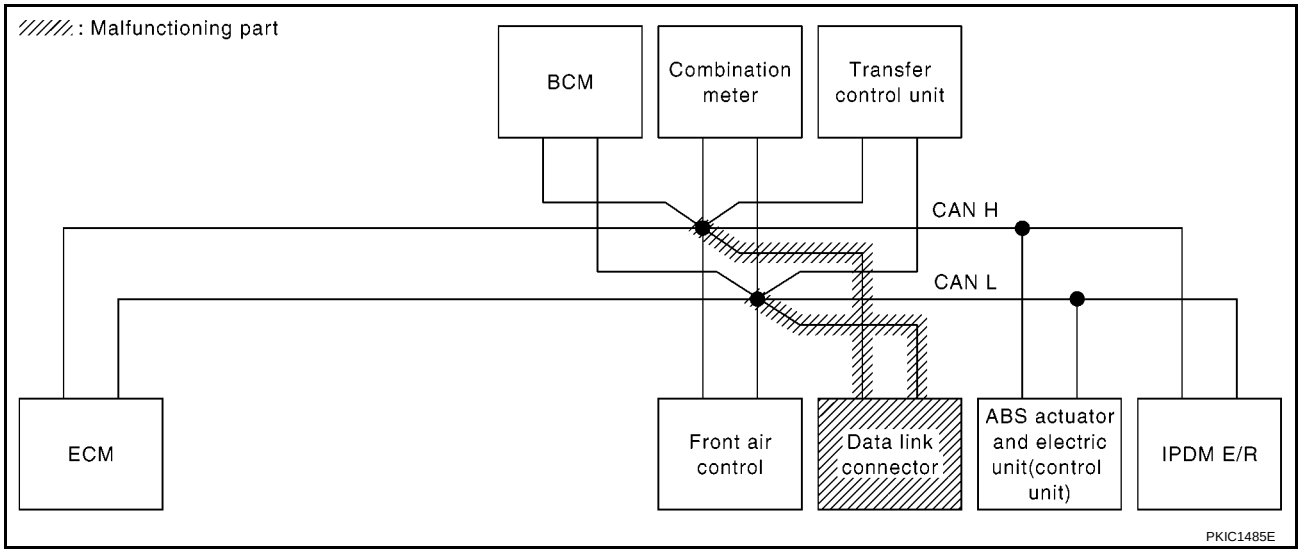
PKIC1484E

Case 4

Check data link connector circuit. Refer to LAN-300, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1836E



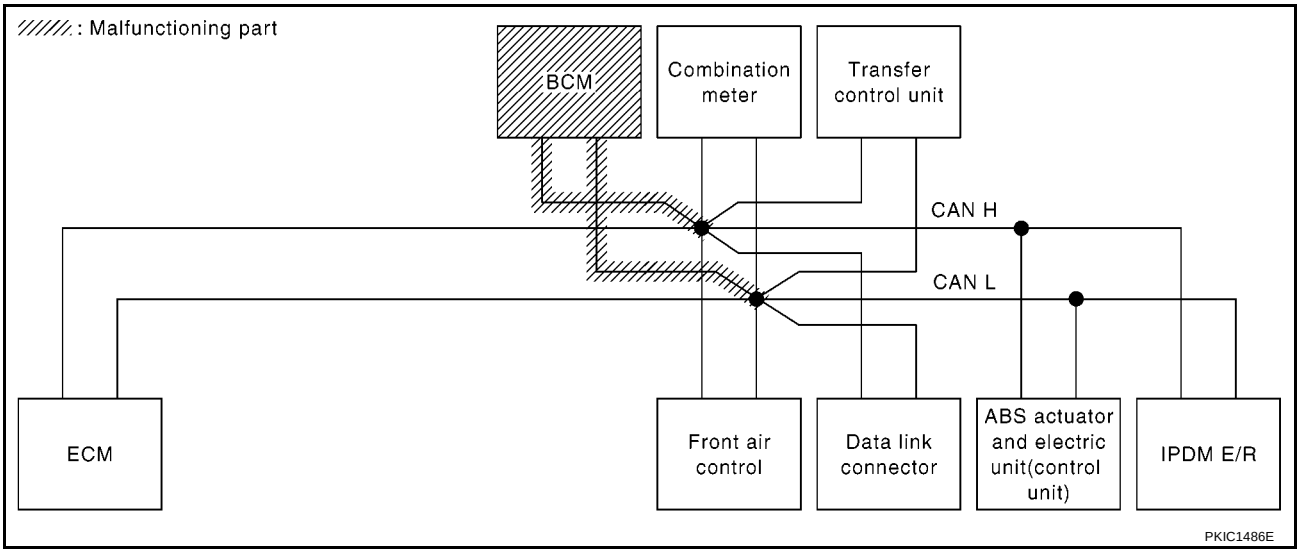
PKIC1485E

Case 5

Check BCM circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1837E



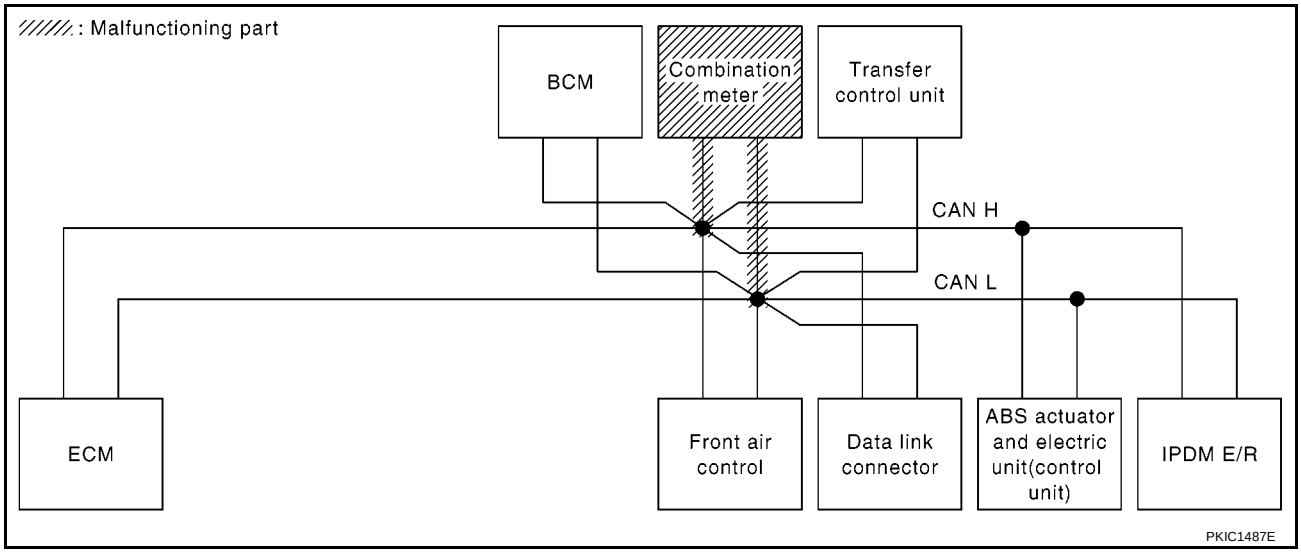
PKIC1486E

Case 6

Check combination meter circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1838E



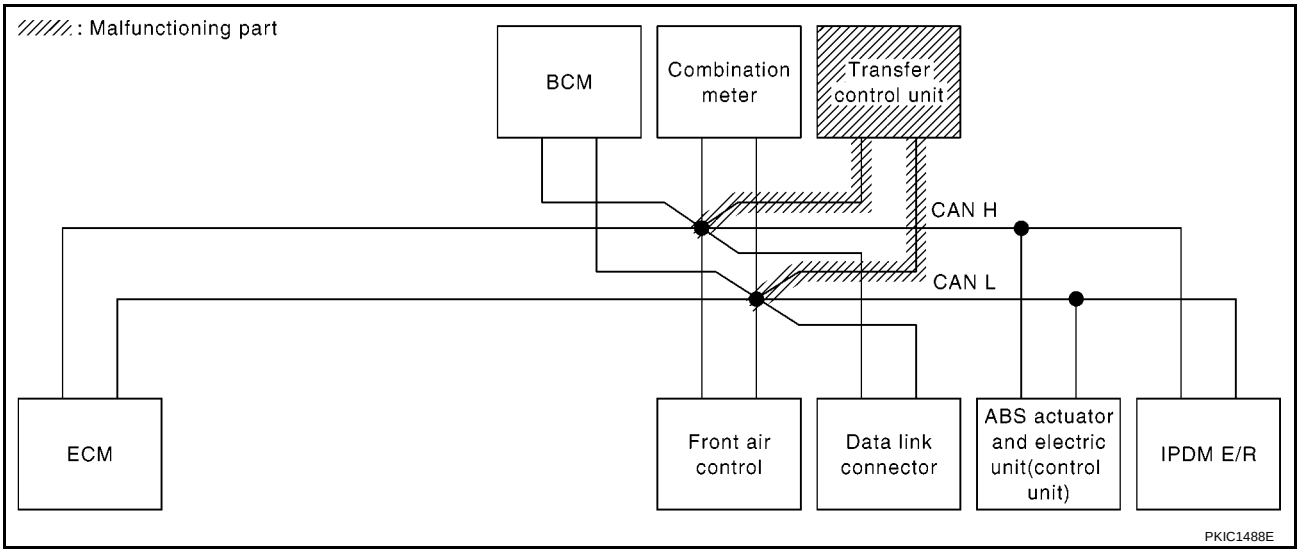
PKIC1487E

Case 7

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1839E



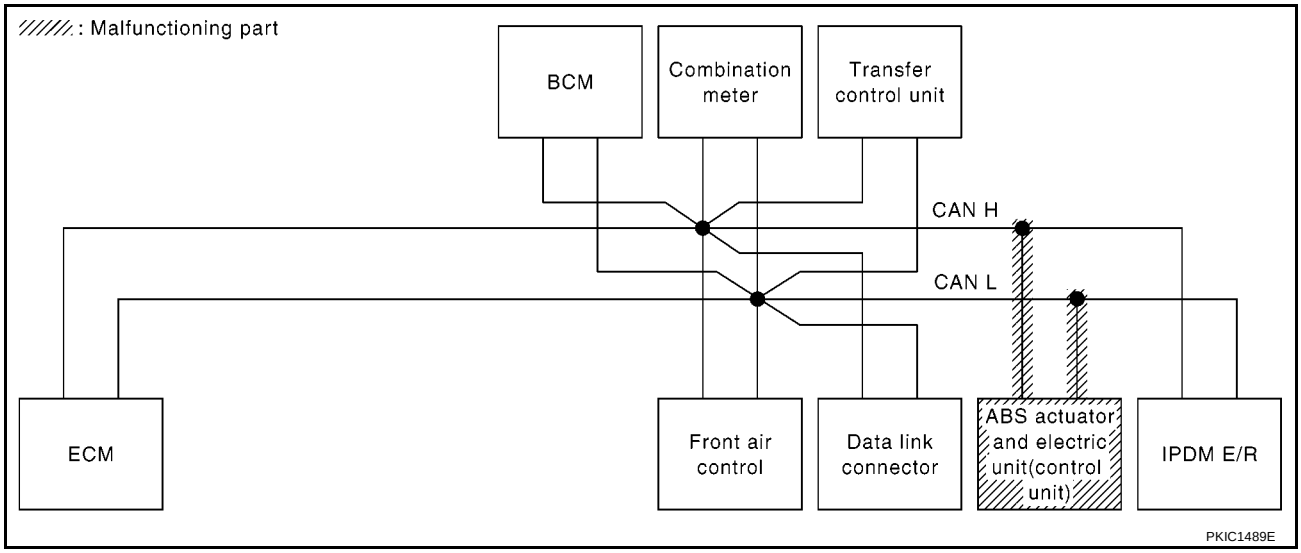
PKIC1488E

Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1840E



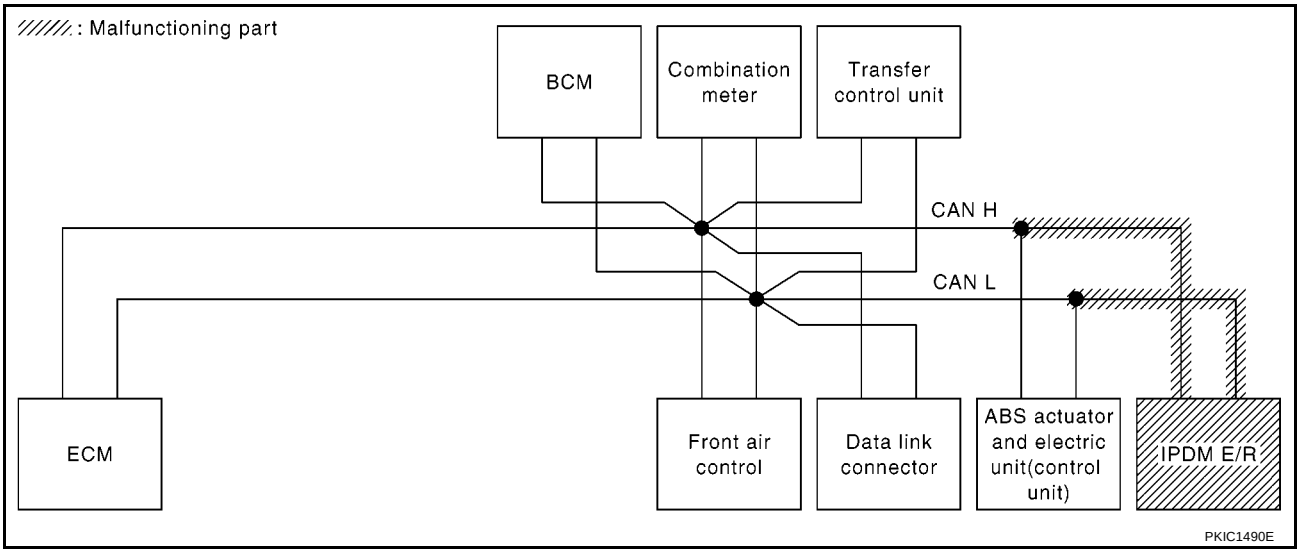
PKIC1489E

Case 9

Check IPDM E/R circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN ✓	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1841E



PKIC1490E

Case 10

Check CAN communication circuit. Refer to LAN-303, "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	—	NG	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication ✓	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1842E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1843E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1844E

CAN SYSTEM (TYPE 7)

PFP:23710

Component Parts and Harness Connector Location

EKS00OEB

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OEC

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OED

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00OEE

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

Check sheet table

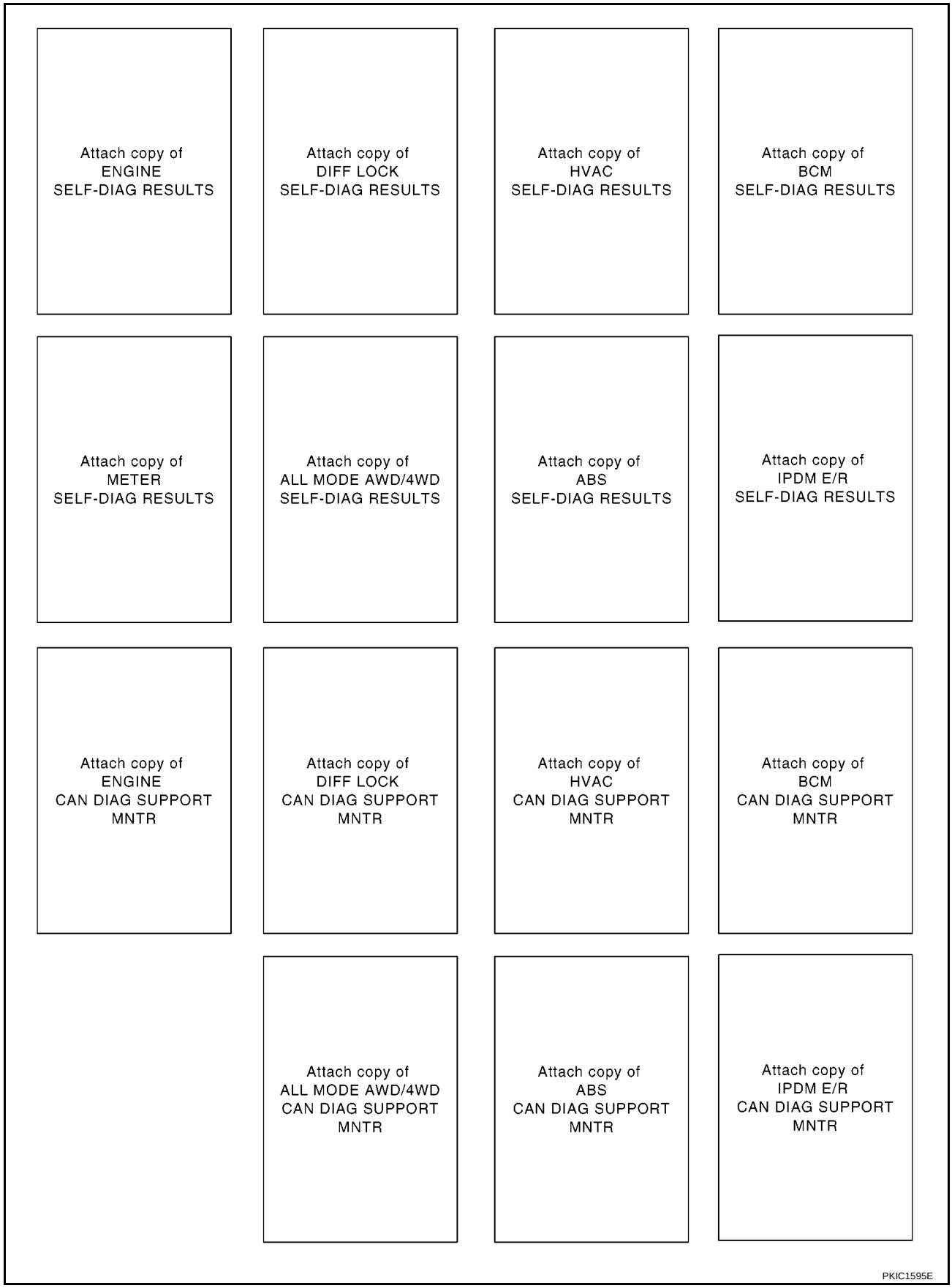
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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

PKIC1421E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
DIFF LOCK
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
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
DIFF LOCK
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC1595E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

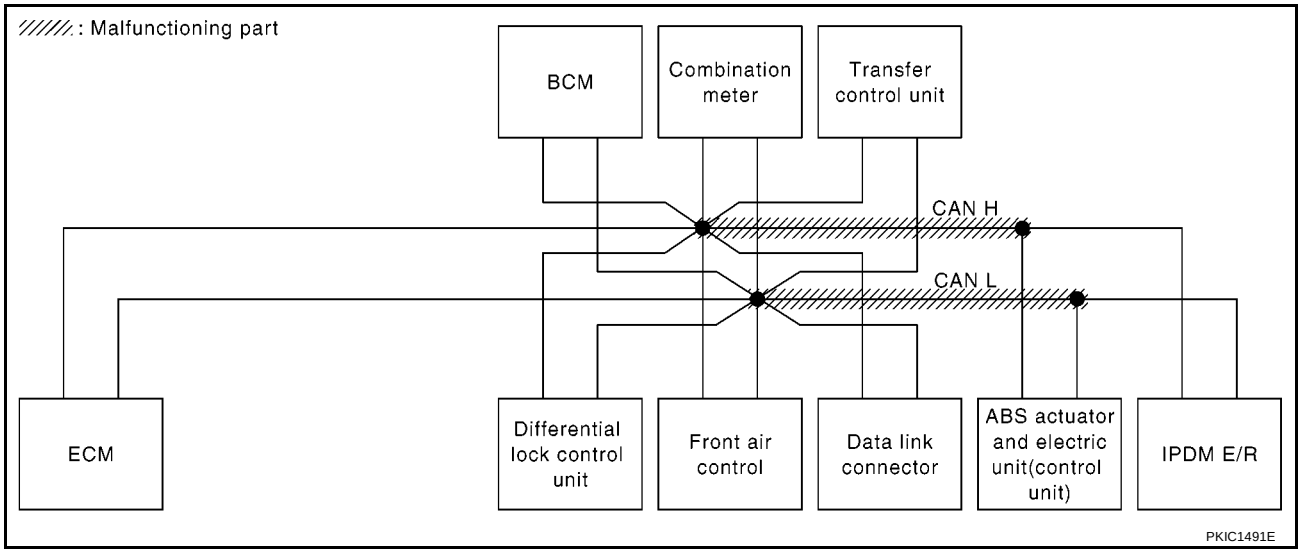
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN ✓	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1845E

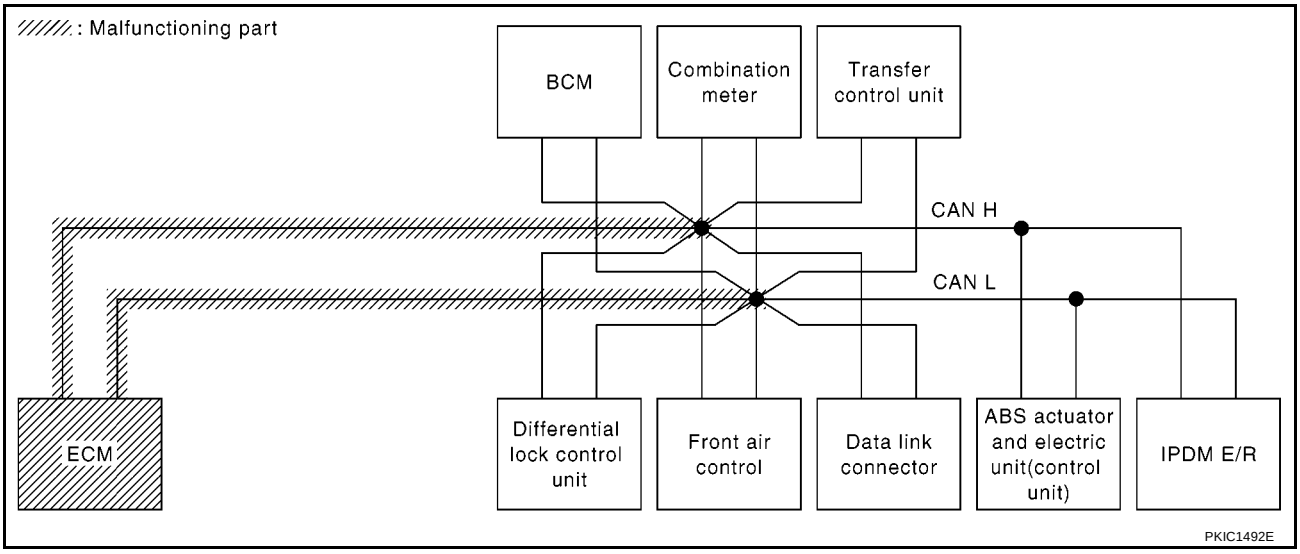


Case 2

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1846E



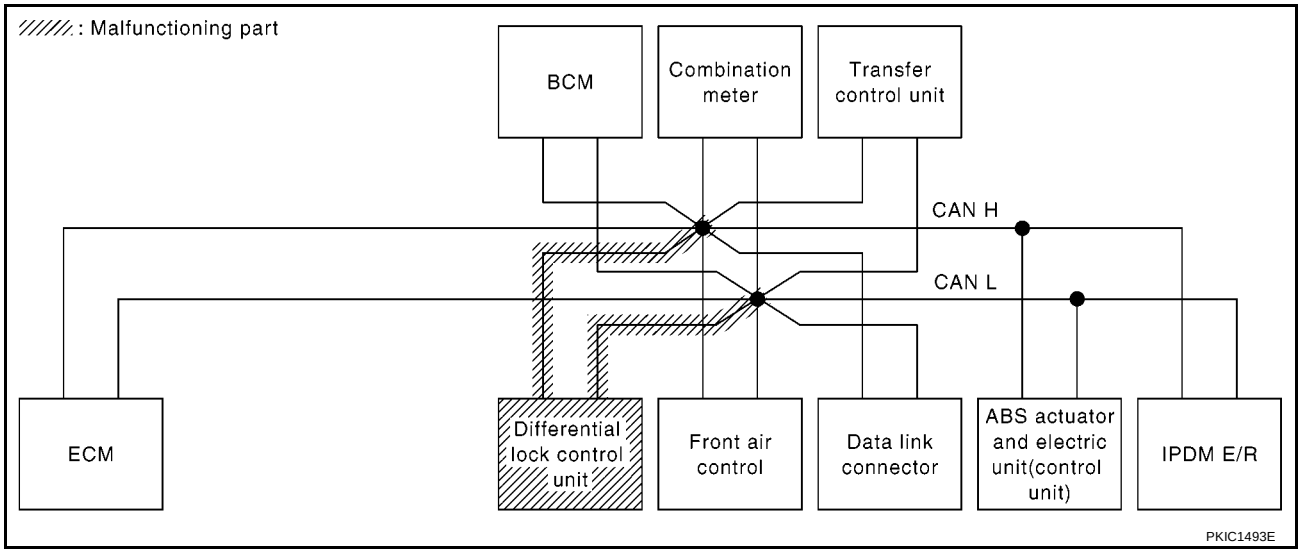
PKIC1492E

Case 3

Check differential lock control unit circuit. Refer to LAN-299, "Differential Lock 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN ✓	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	— ✓	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1847E



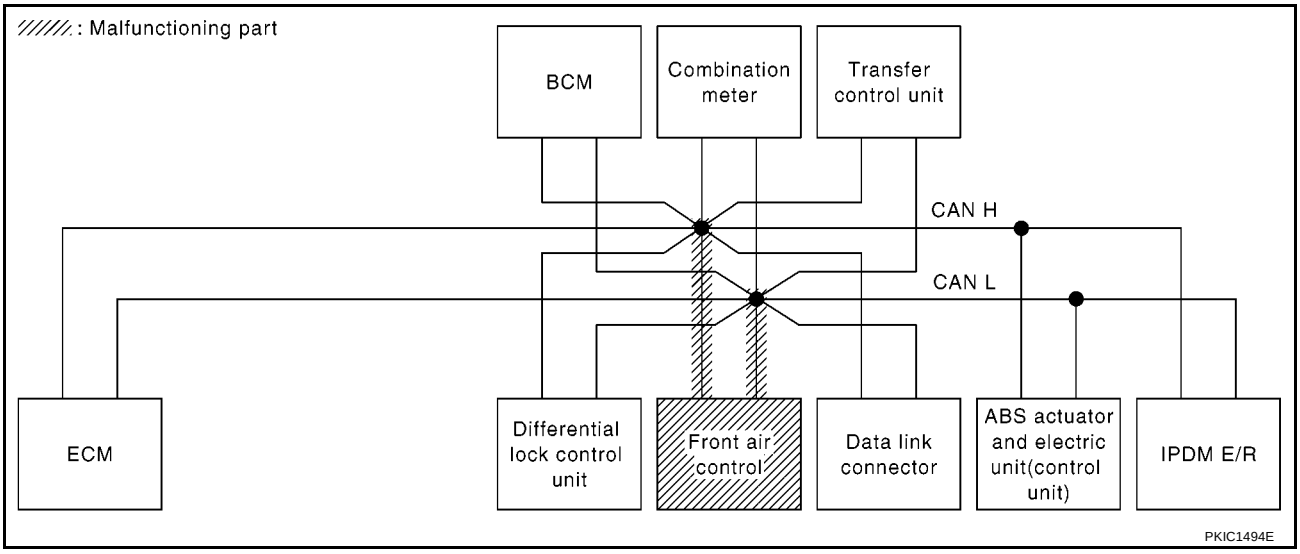
PKIC1493E

Case 4

Check front air control circuit. Refer to LAN-300, "Front Air Control Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1848E



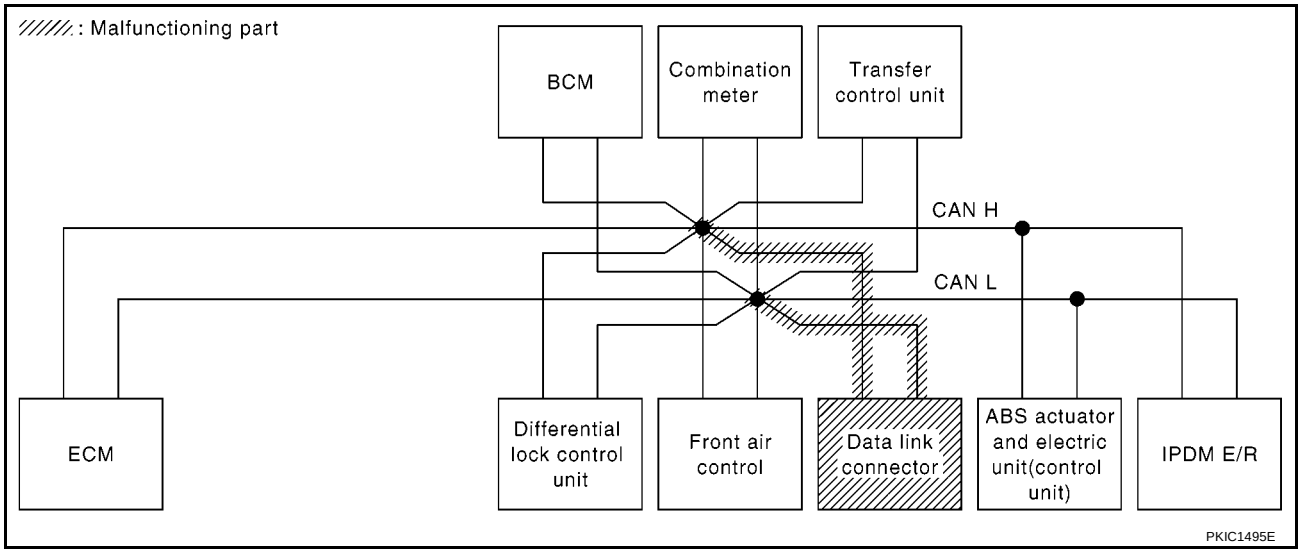
PKIC1494E

Case 5

Check data link connector circuit. Refer to LAN-300, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1849E



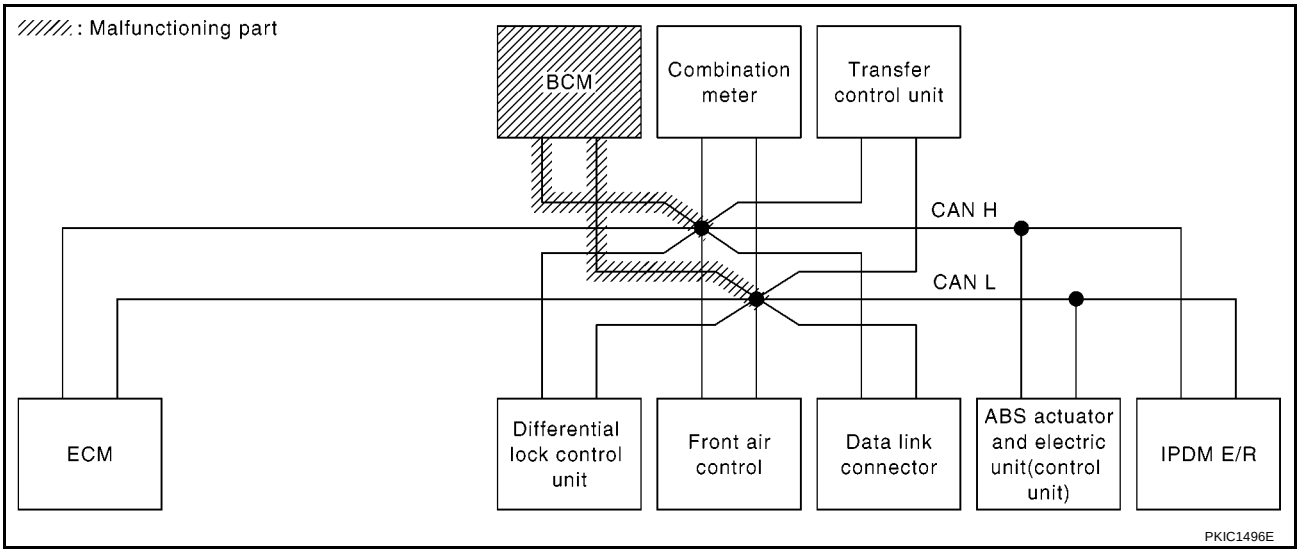
PKIC1495E

Case 6

Check BCM circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1850E



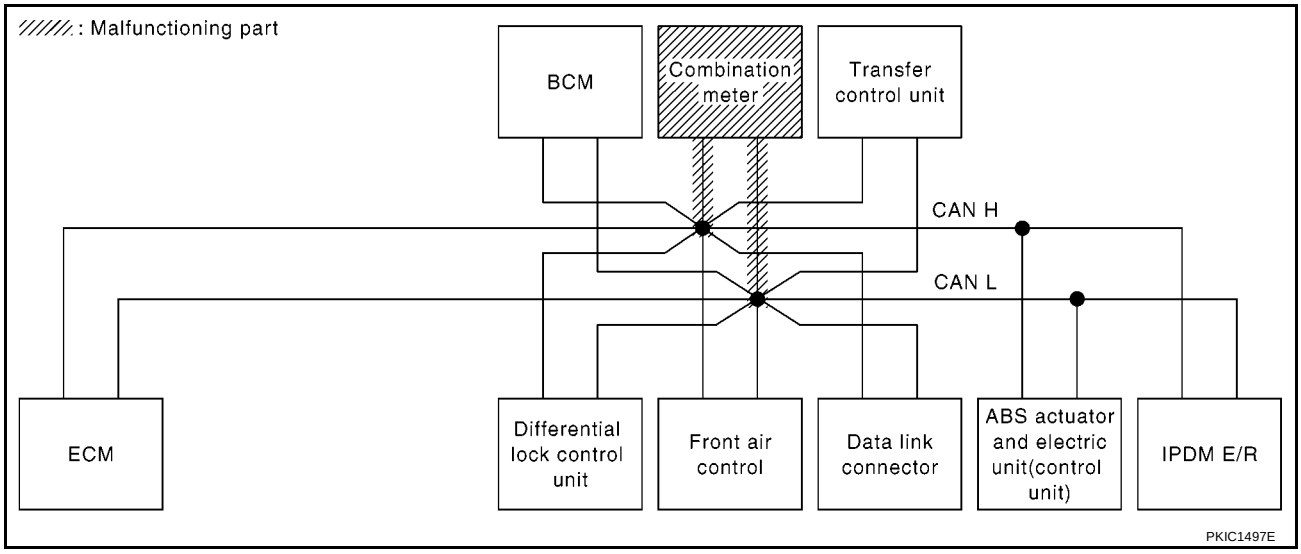
PKIC1496E

Case 7

Check combination meter circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1851E



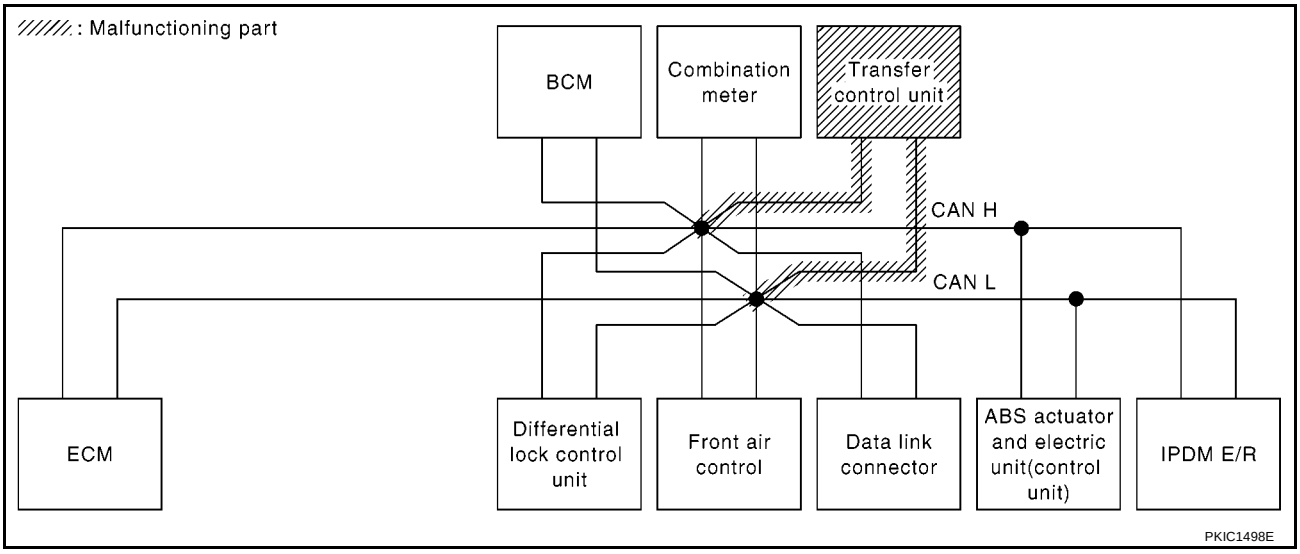
PKIC1497E

Case 8

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1852E



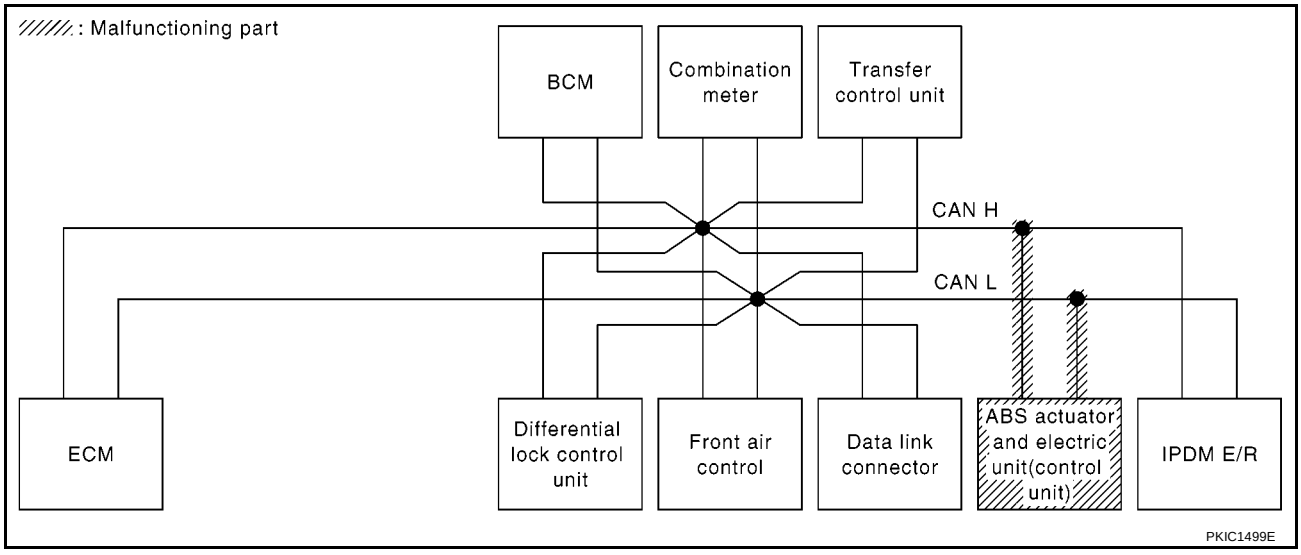
PKIC1498E

Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1853E

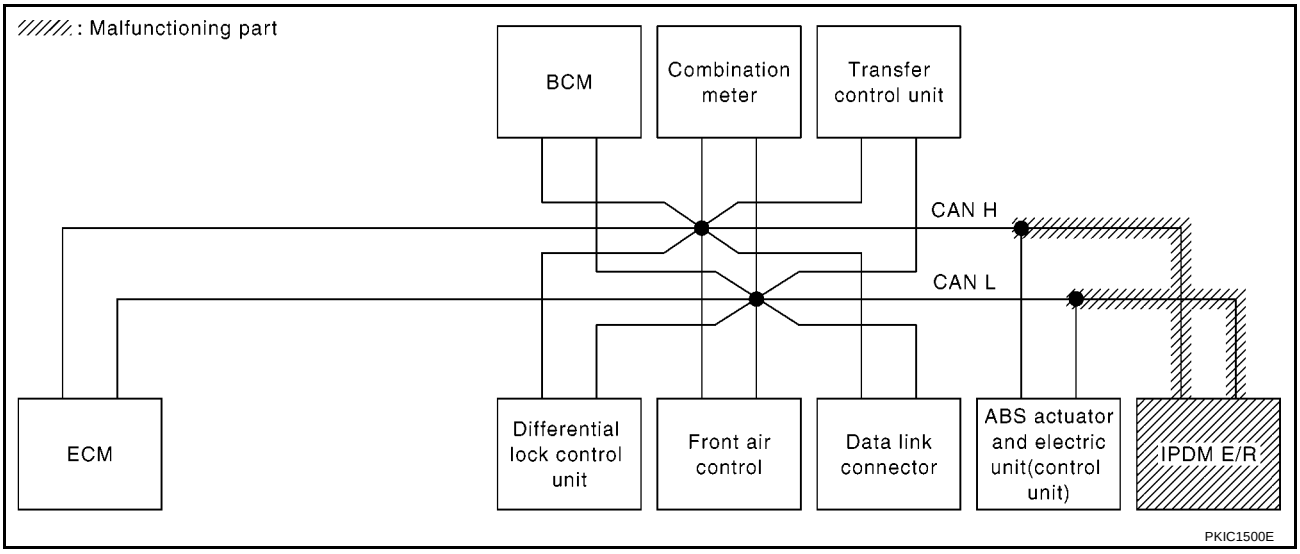


Case 10

Check IPDM E/R circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1854E



PKIC1500E

Case 11

Check CAN communication circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN ✓	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication ✓	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1855E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1856E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1857E

CAN SYSTEM (TYPE 8)

PFP:23710

Component Parts and Harness Connector Location

EKS00OE7

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OE8

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OE9

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00OEA

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

Check sheet table

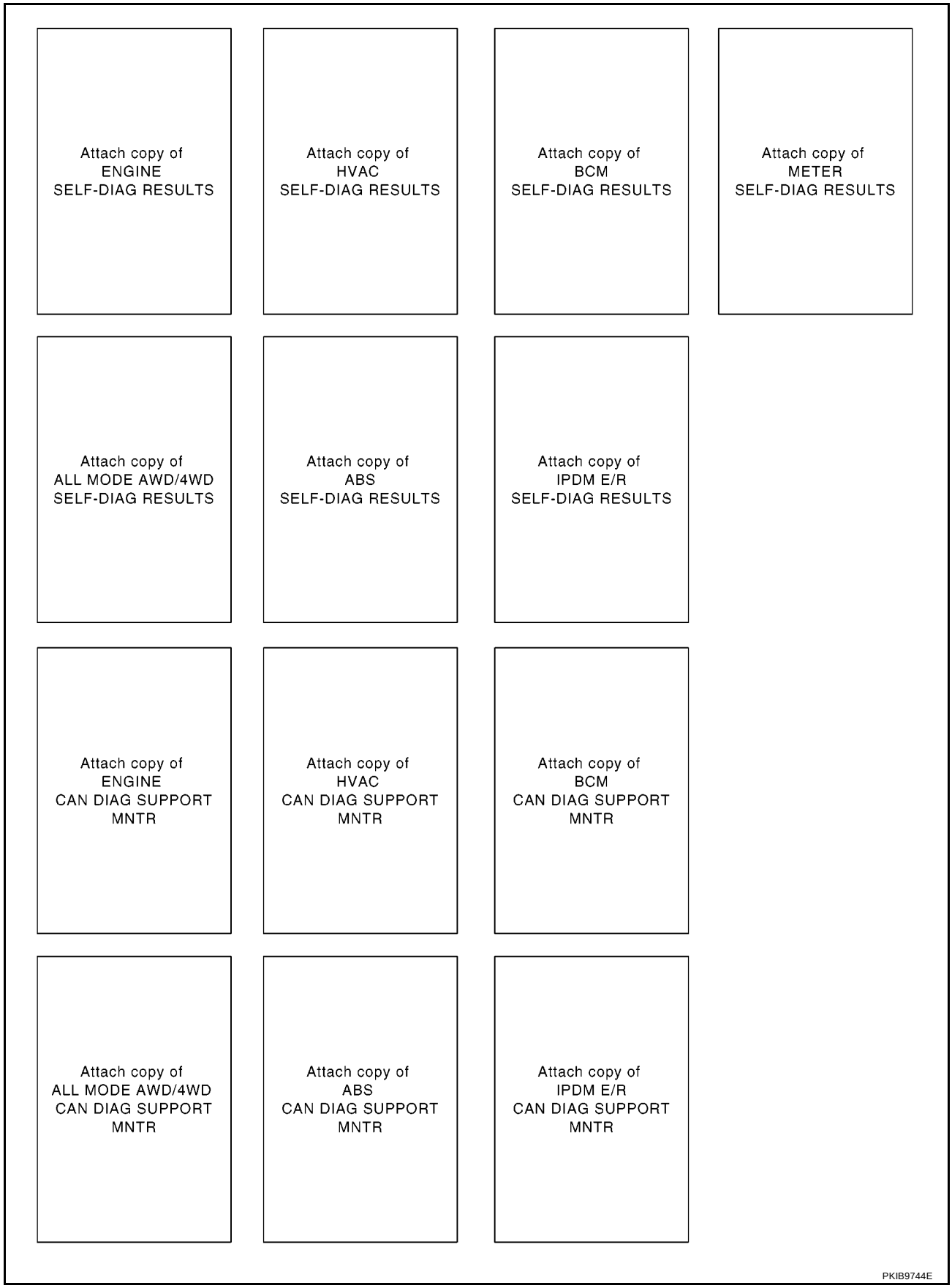
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM/SEC	METER/M&A	VDC/TCS/ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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

PKIC1423E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
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
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB9744E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

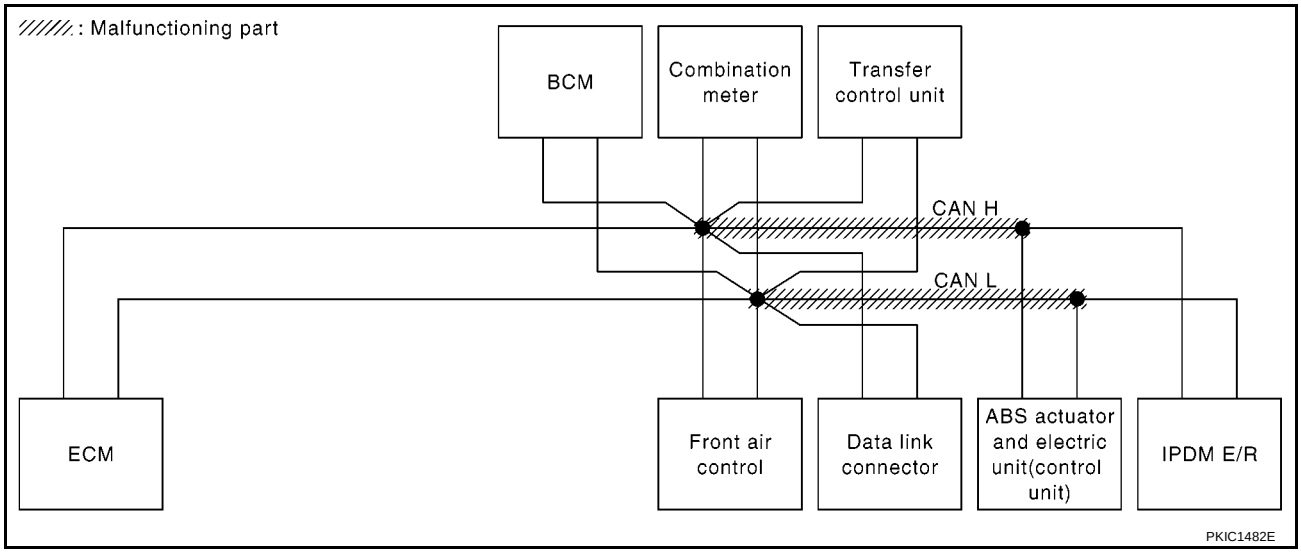
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1858E

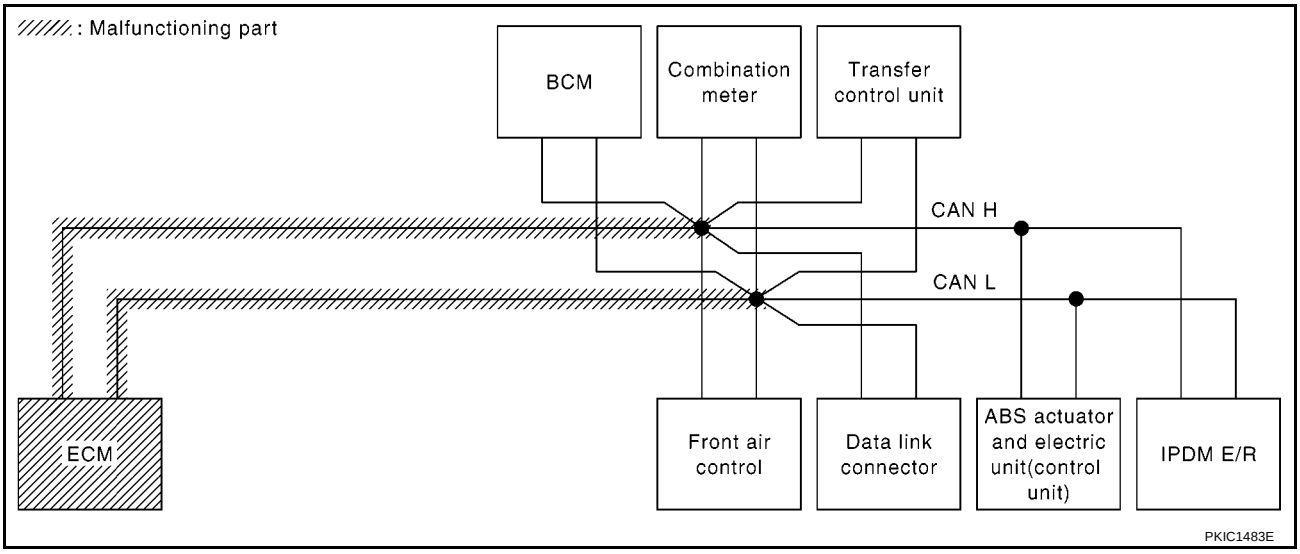


Case 2

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1859E



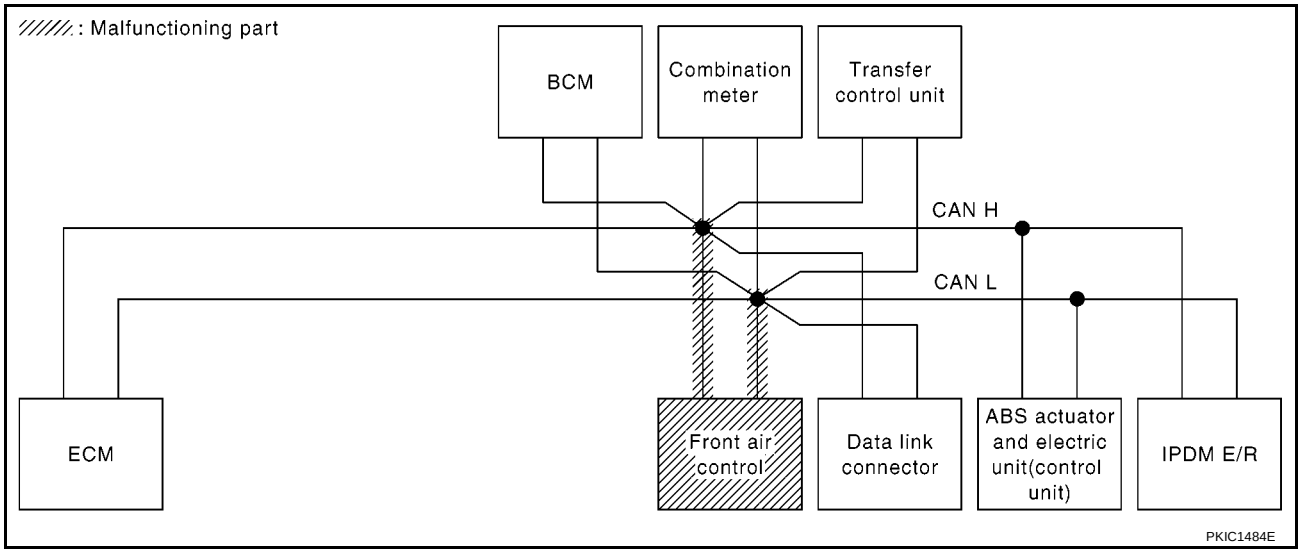
PKIC1483E

Case 3

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1860E



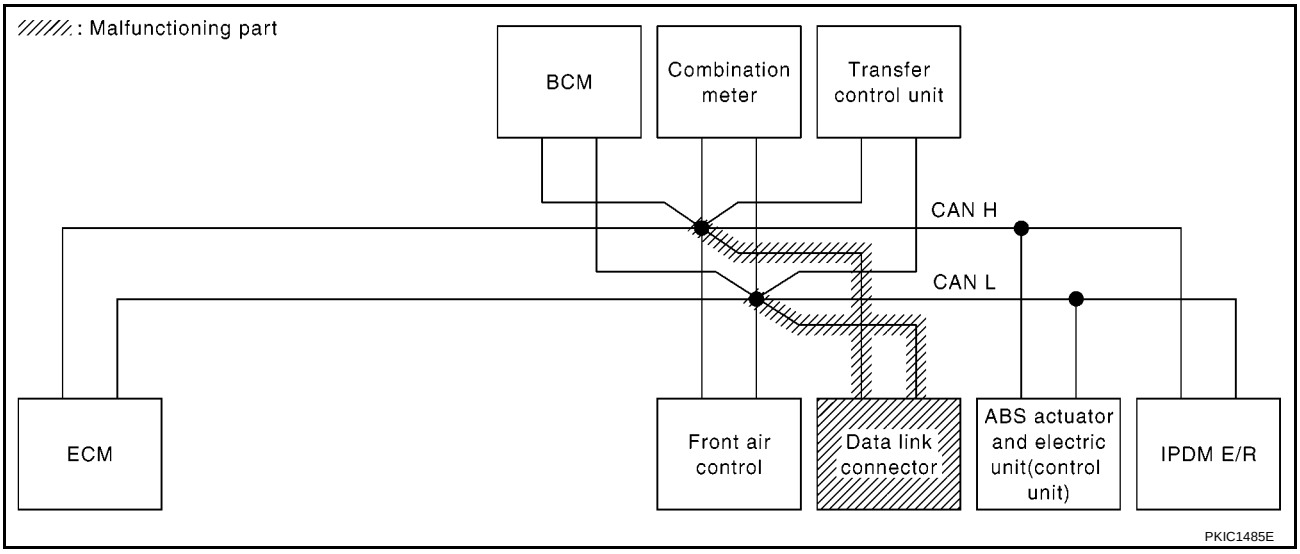
PKIC1484E

Case 4

Check data link connector circuit. Refer to LAN-300, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1861E



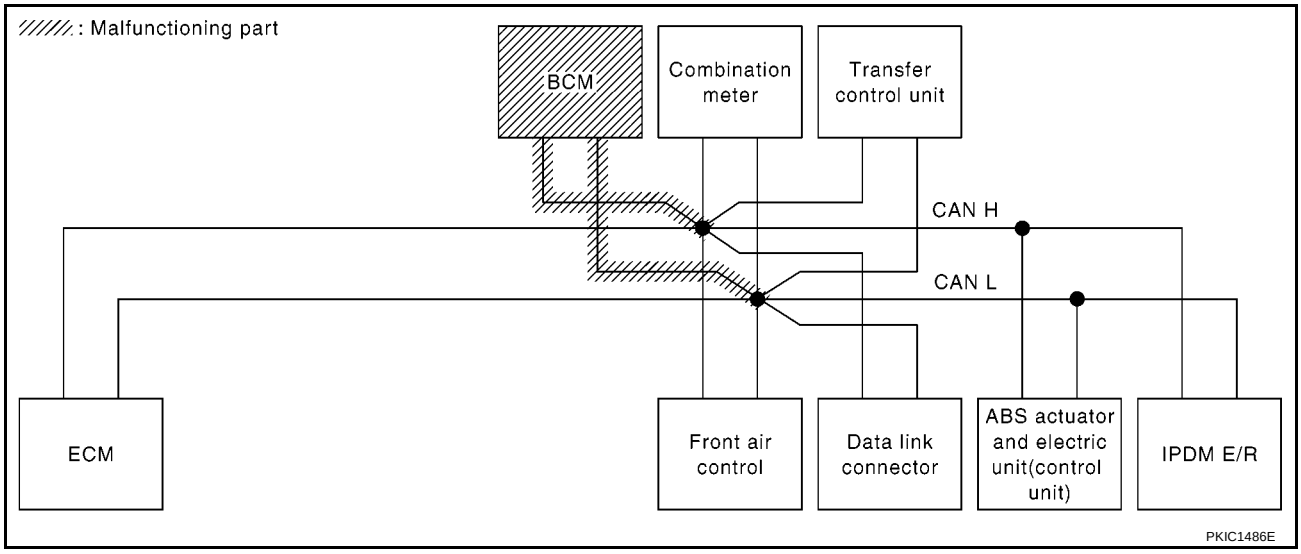
PKIC1485E

Case 5

Check BCM circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1862E



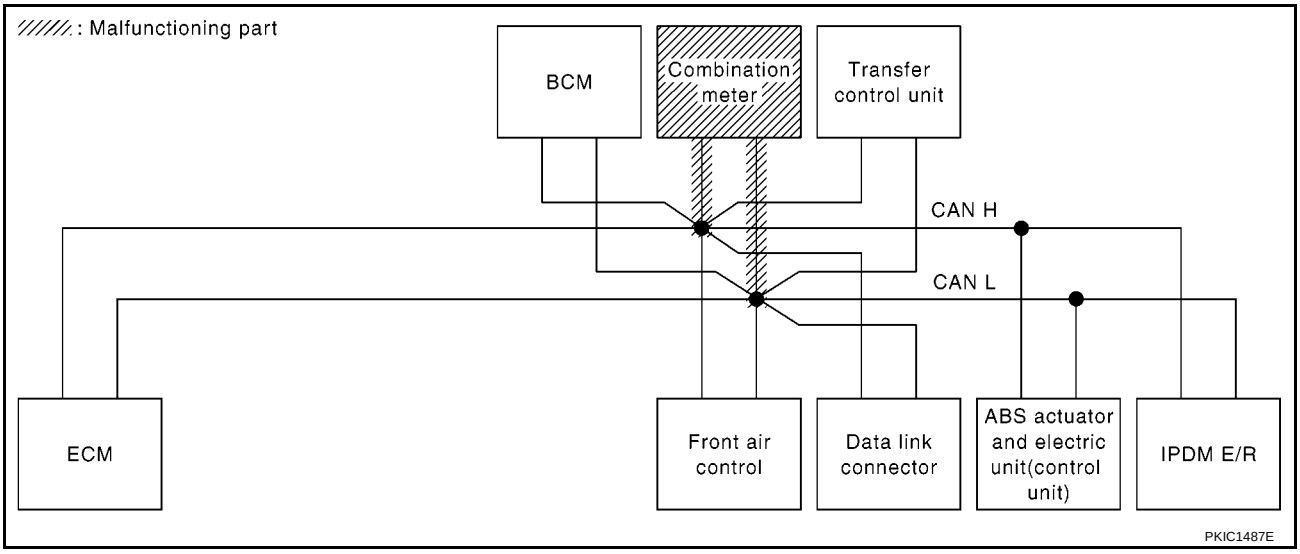
PKIC1486E

Case 6

Check combination meter circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN ✓	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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)

PKIC1863E



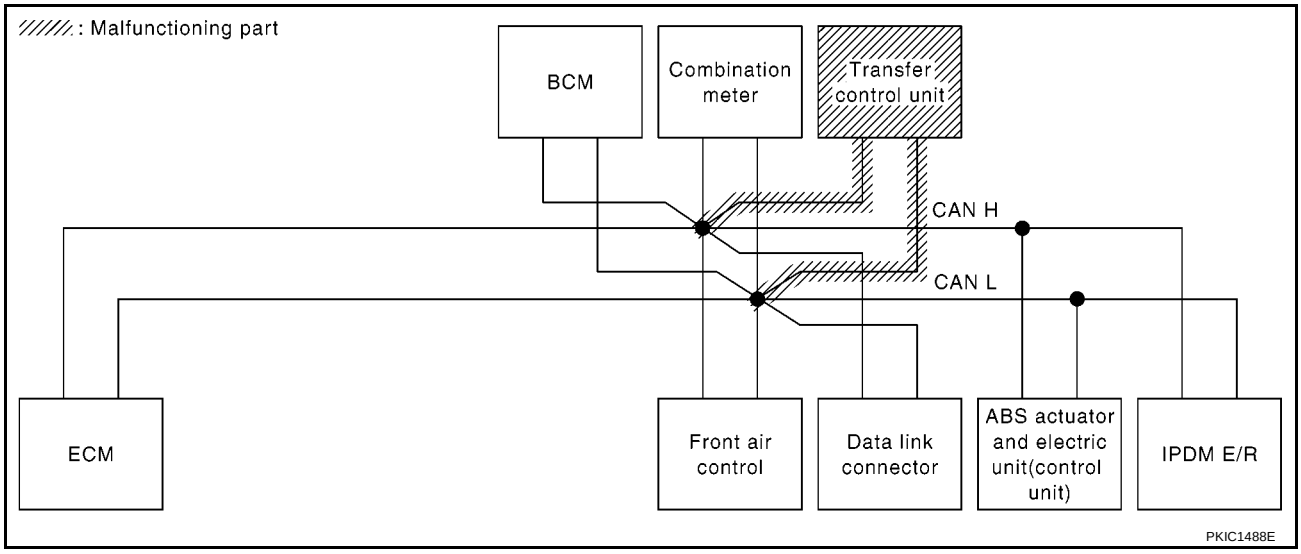
PKIC1487E

Case 7

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1864E

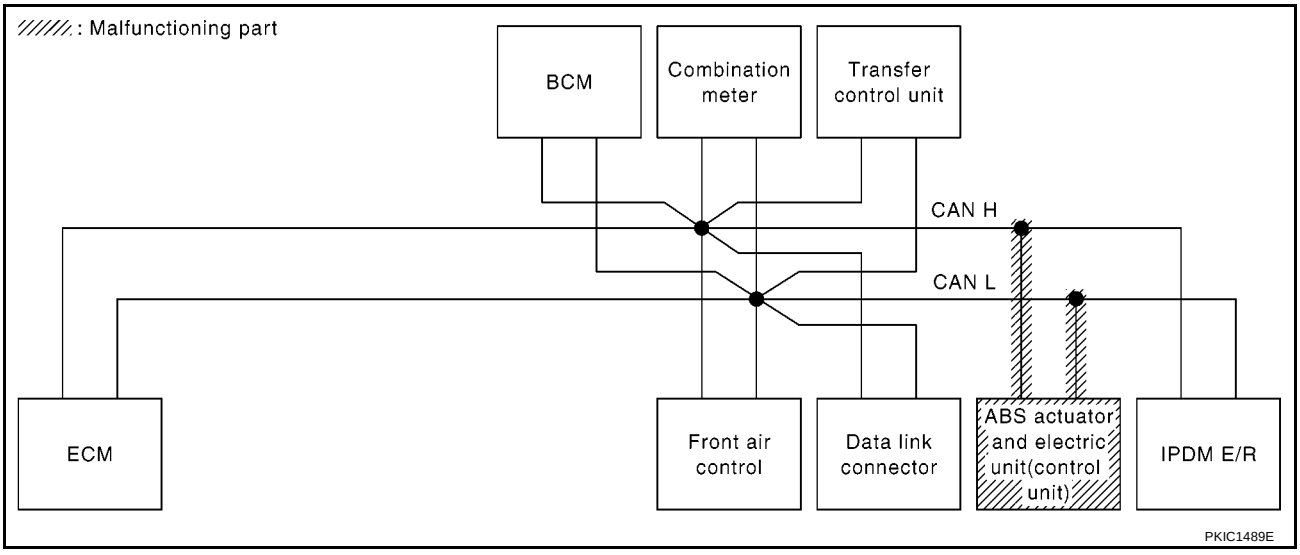


Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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)

PKIC1865E



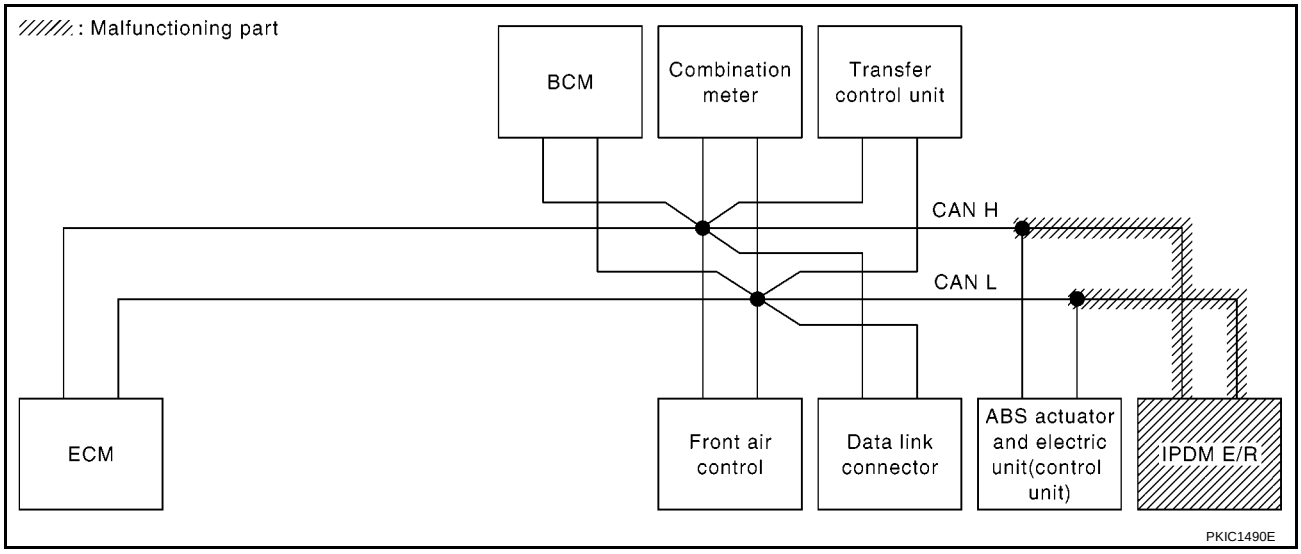
PKIC1489E

Case 9

Check IPDM E/R circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1866E



PKIC1490E

Case 10

Check CAN communication circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1867E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1868E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1869E

CAN SYSTEM (TYPE 9)

PFP:23710

Component Parts and Harness Connector Location

EKS00ODU

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00ODV

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00ODW

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00ODX

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

Check sheet table

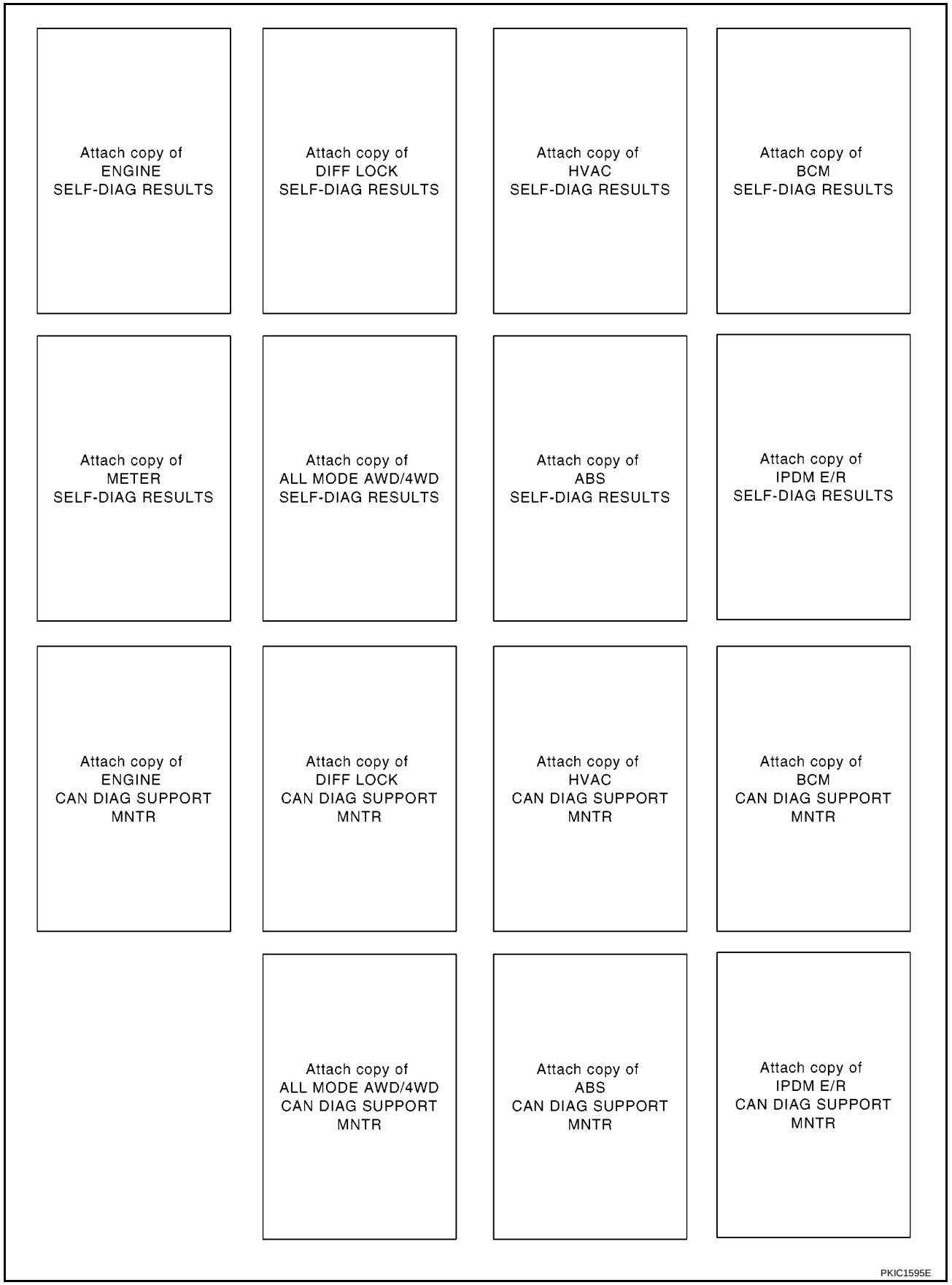
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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

PKIC1422E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
DIFF LOCK
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
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
DIFF LOCK
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC1595E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

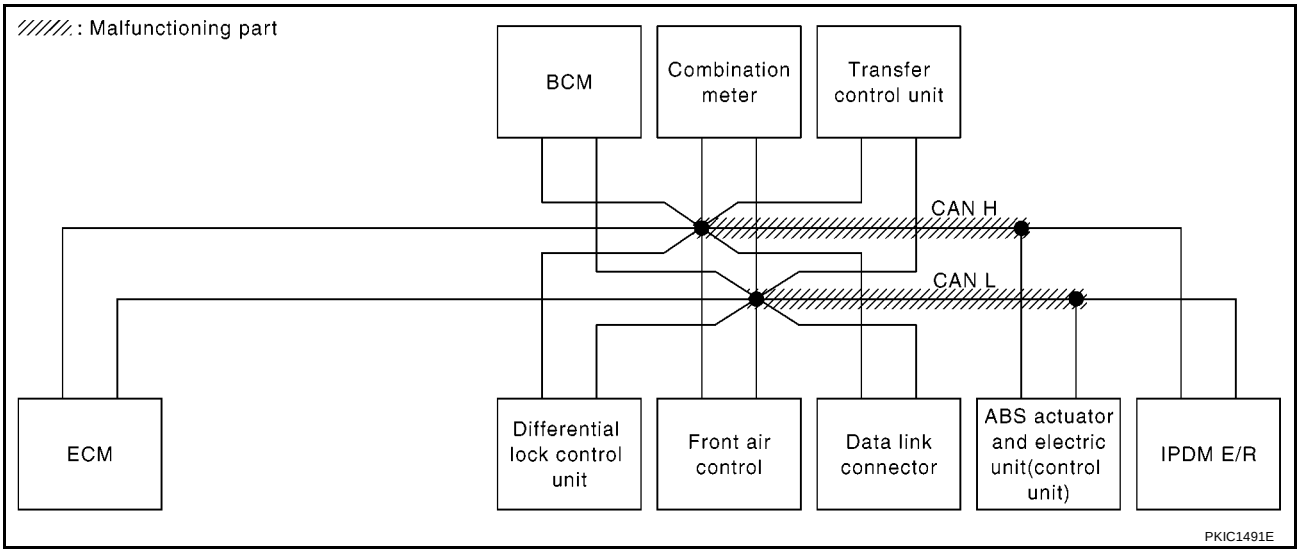
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	✓	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	✓	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	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)

PKIC1870E



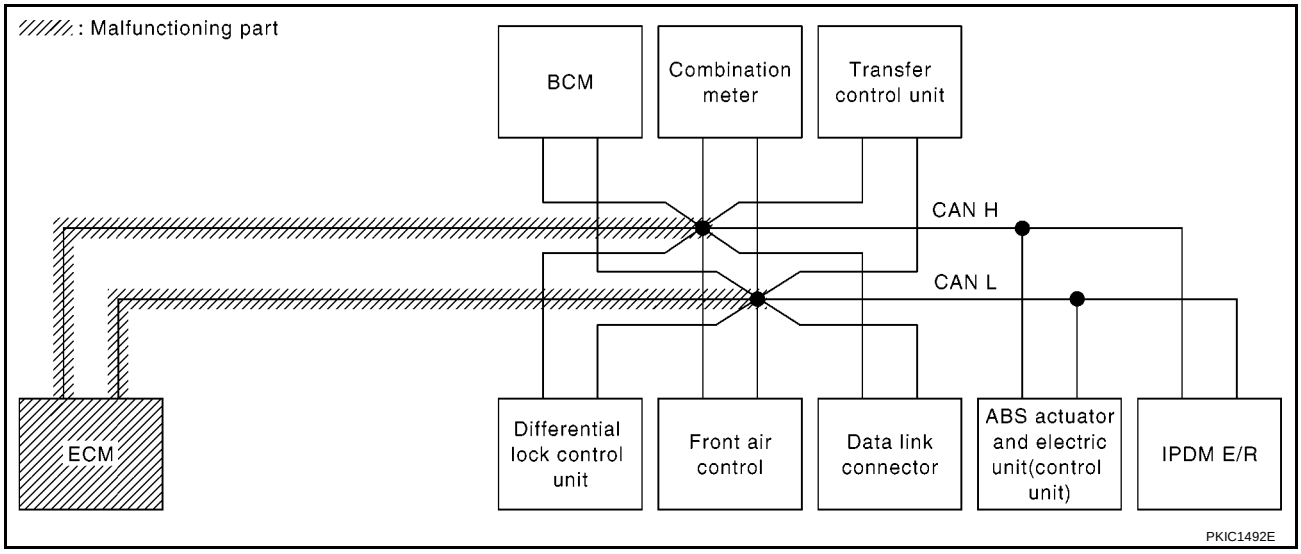
PKIC1491E

Case 2

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1871E



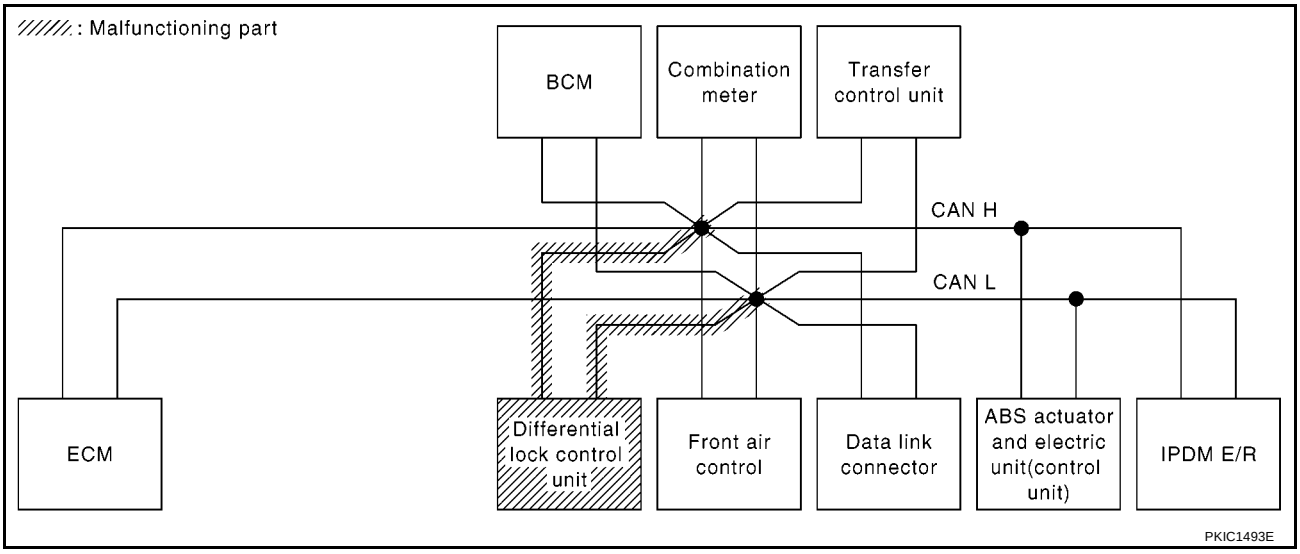
PKIC1492E

Case 3

Check differential lock control unit circuit. Refer to LAN-299, "Differential Lock 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1872E



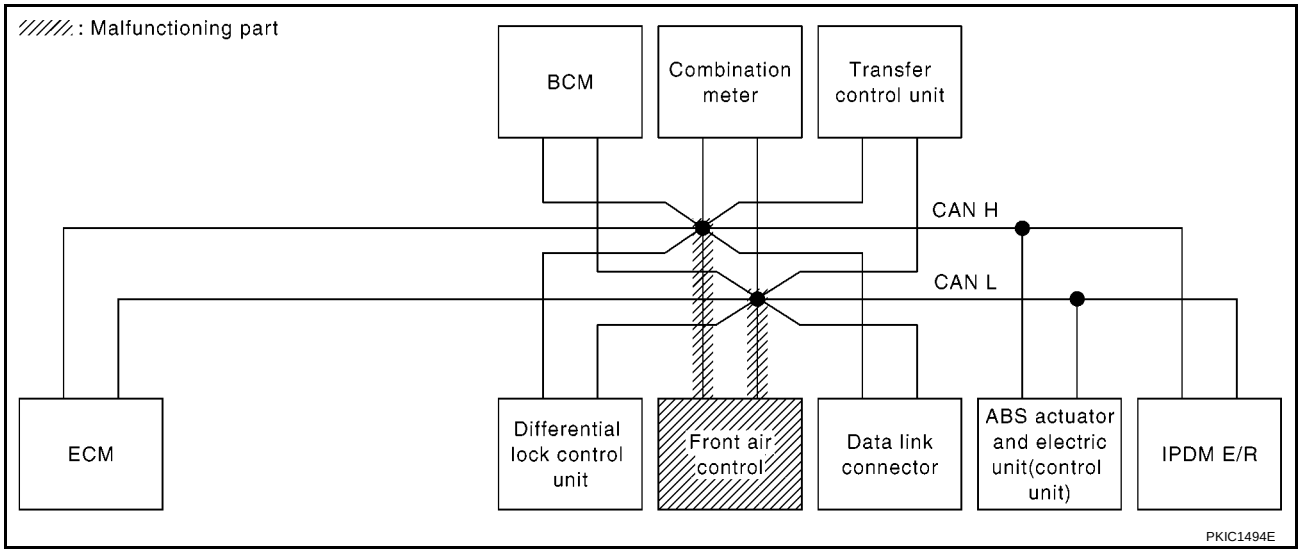
PKIC1493E

Case 4

Check front air control circuit. Refer to LAN-300, "Front Air Control Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1873E



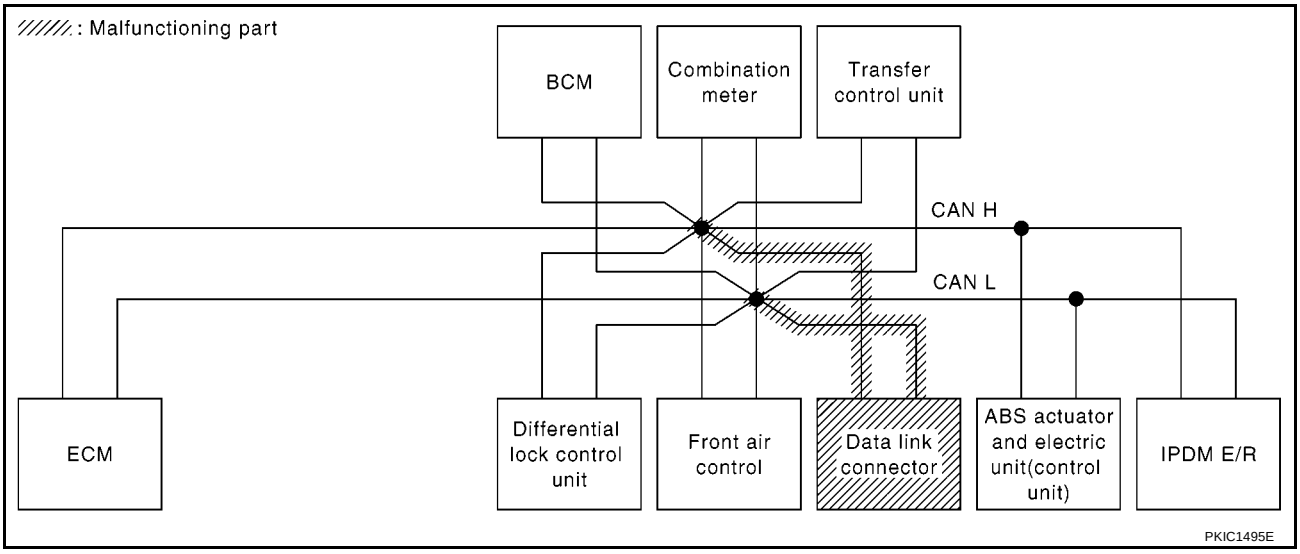
PKIC1494E

Case 5

Check data link connector circuit. Refer to LAN-300, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1874E



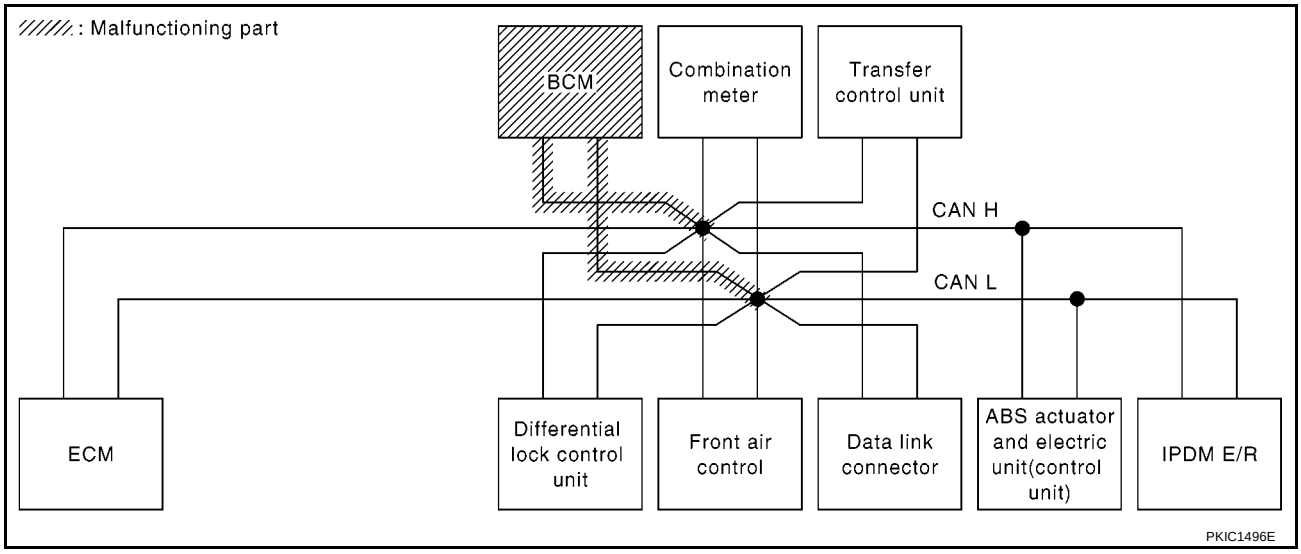
PKIC1495E

Case 6

Check BCM circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1875E



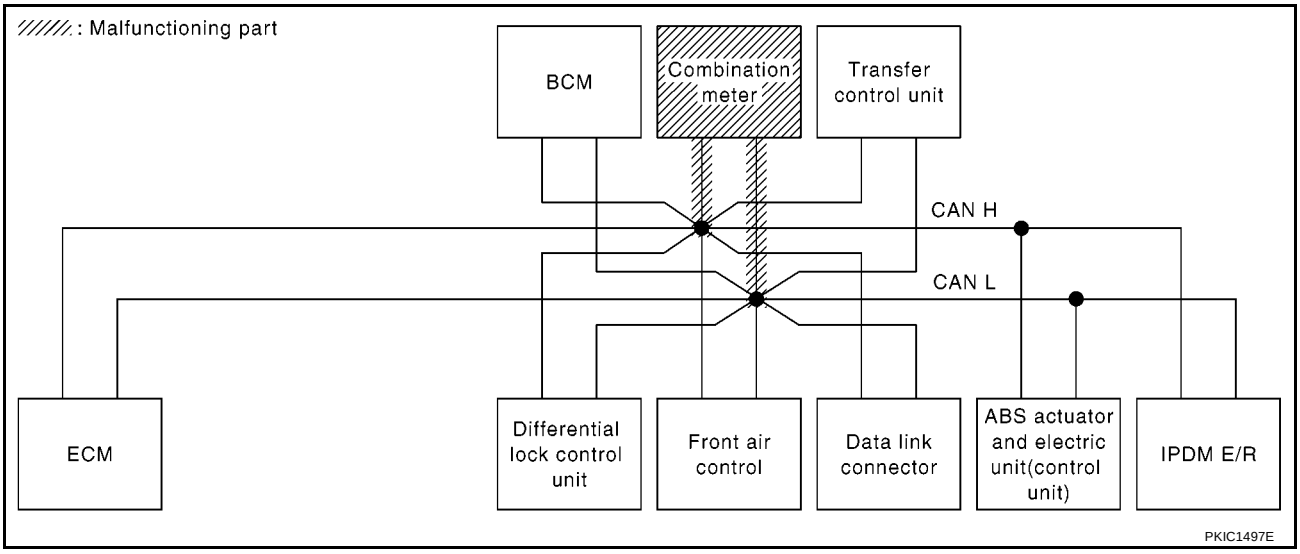
PKIC1496E

Case 7

Check combination meter circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN	UNKWN	—	— ✓	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	— ✓	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN ✓	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	— ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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)

PKIC1876E



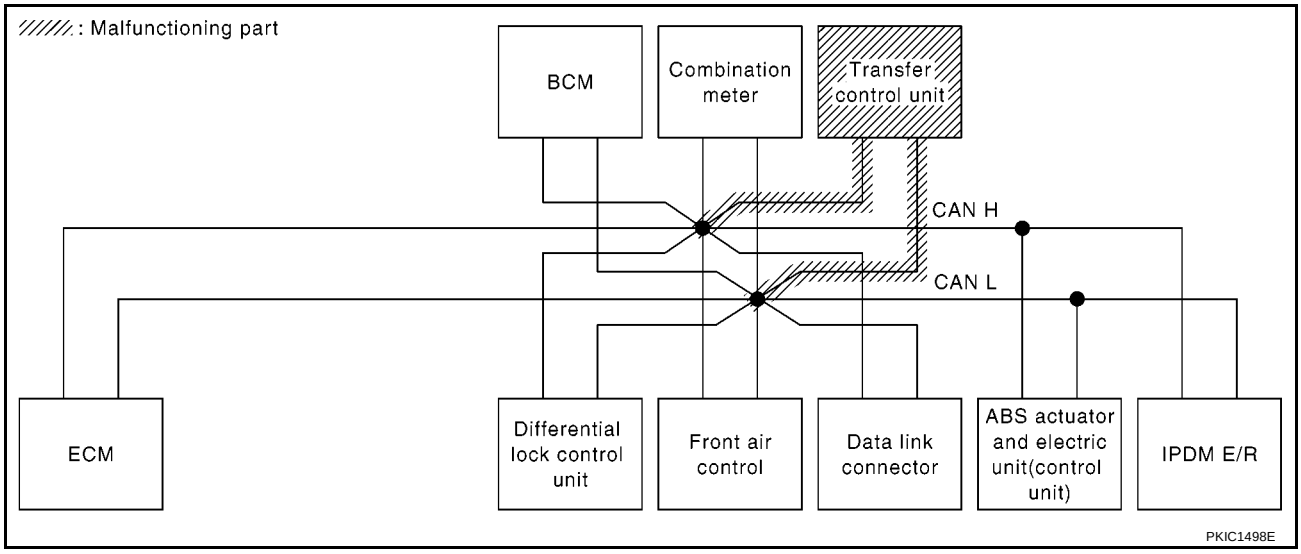
PKIC1497E

Case 8

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1877E

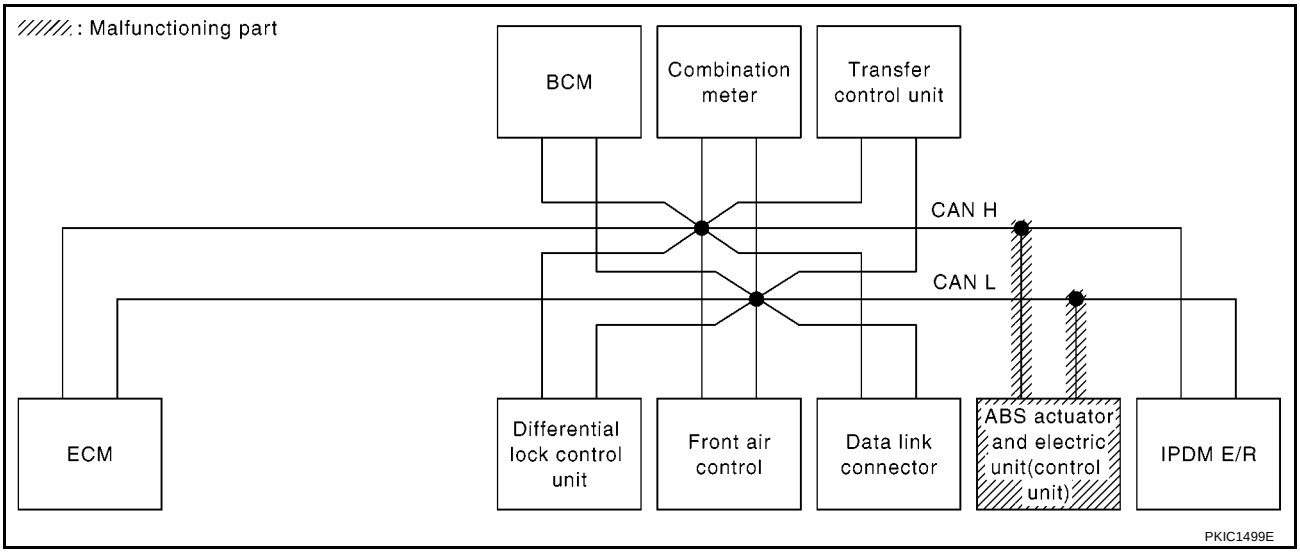


Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1878E



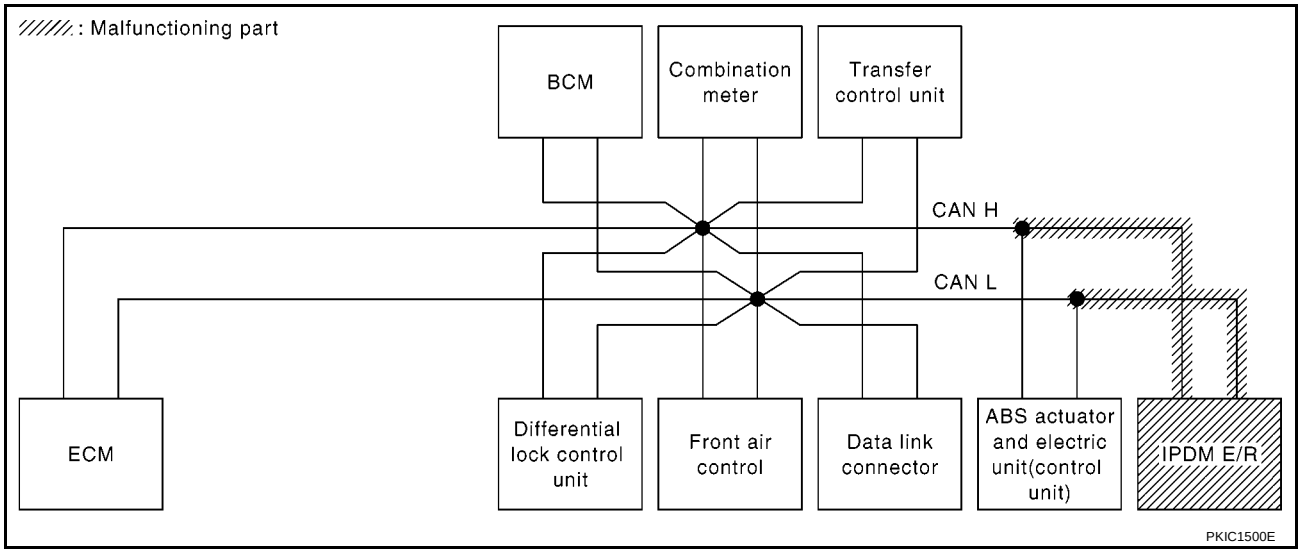
PKIC1499E

Case 10

Check IPDM E/R circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1879E



PKIC1500E

Case 11

Check CAN communication circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1880E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1881E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1882E

CAN SYSTEM (TYPE 10)

PFP:23710

Component Parts and Harness Connector Location

EKS00OB1

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OB2

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OB3

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00OB4

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

Check sheet table

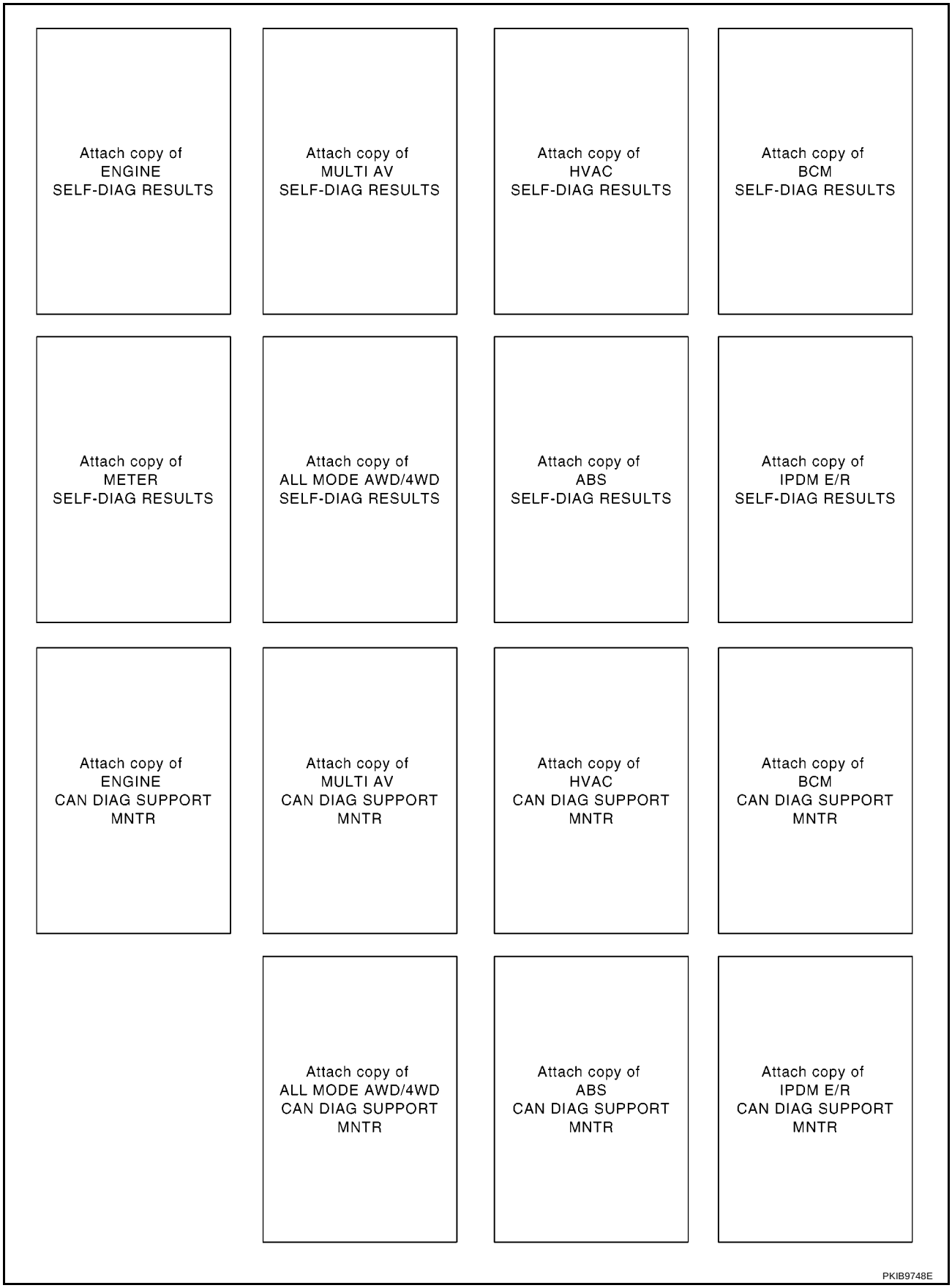
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM/SEC	METER/M&A	VDC/TCS/ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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

PKIC1424E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
MULTI AV
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
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
MULTI AV
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB9748E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

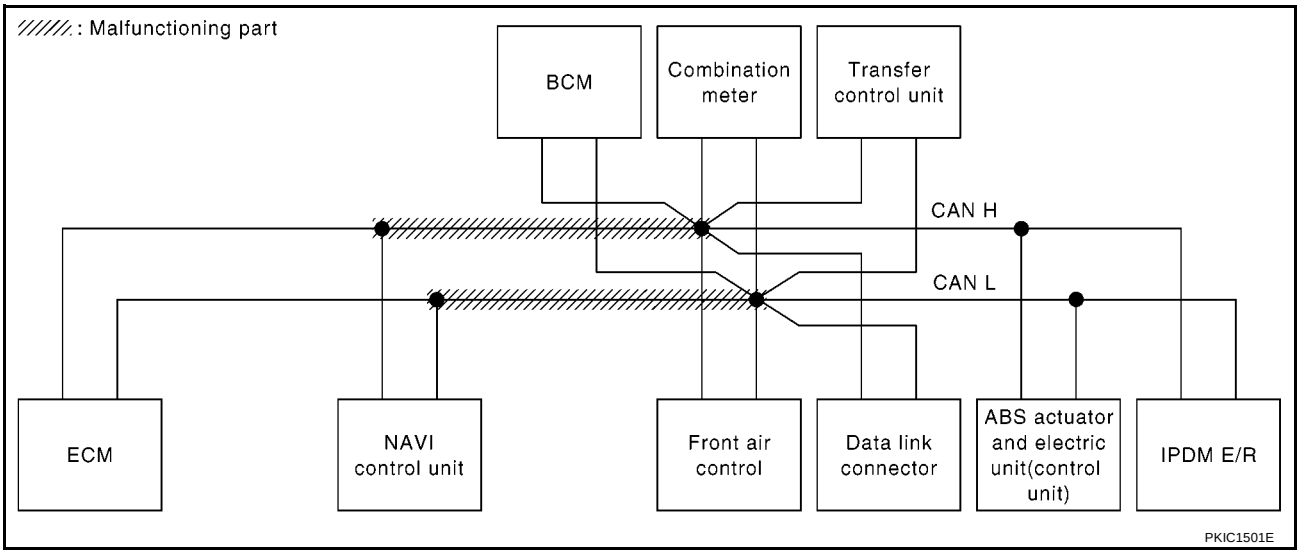
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between NAVI control unit and data link connector circuit. Refer to LAN-295, "Inspection Between NAVI Control Unit and Data Link Connector 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1883E

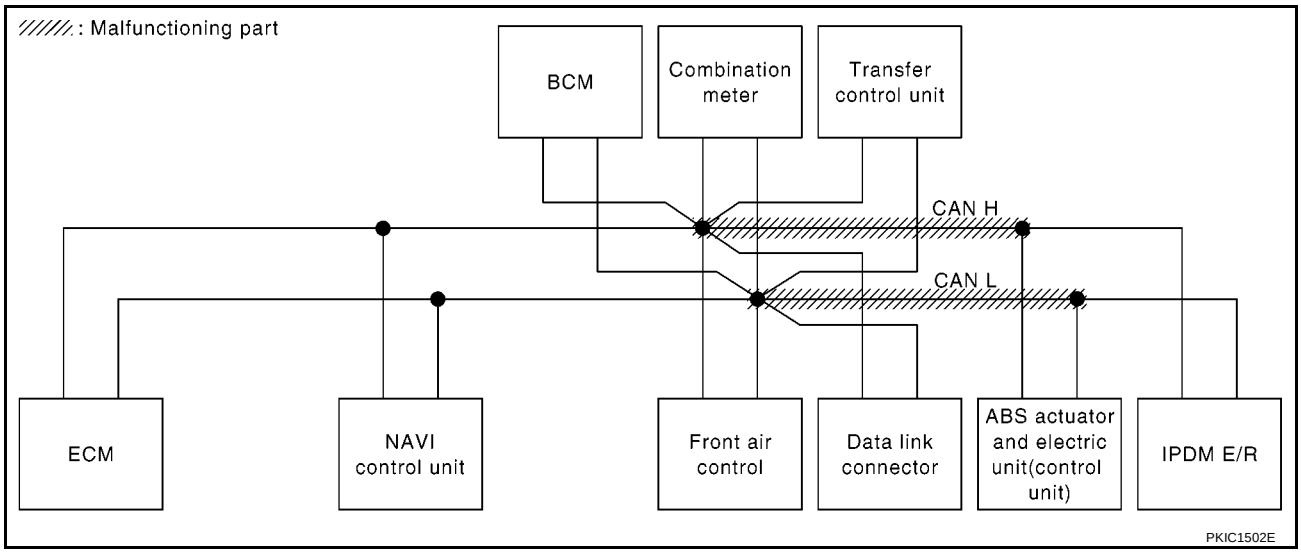


Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1884E

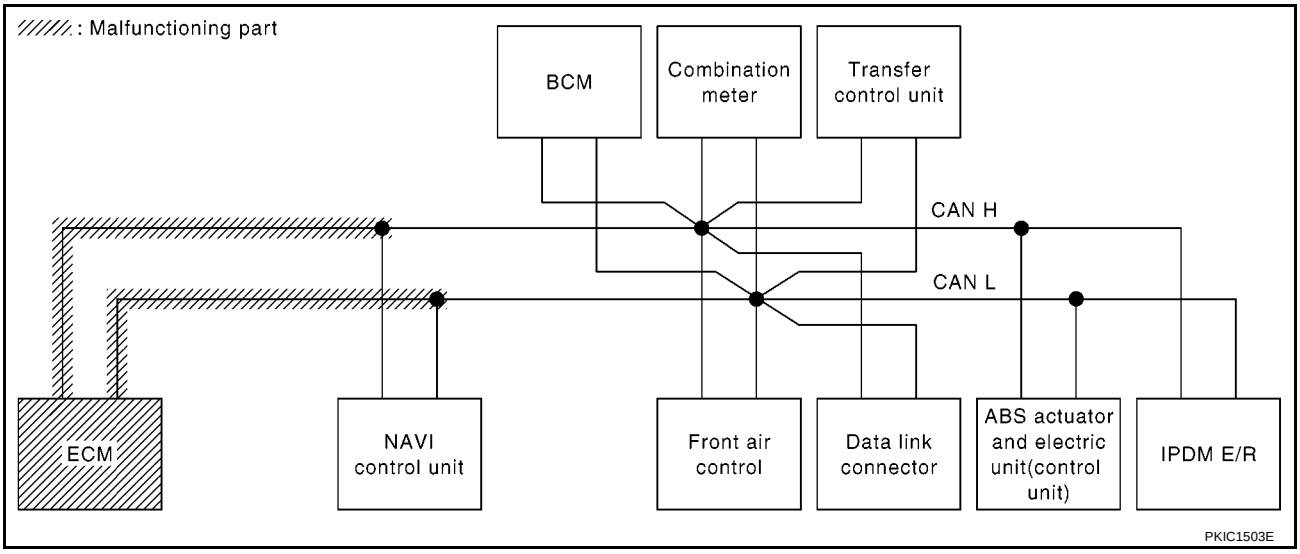


Case 3

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1885E

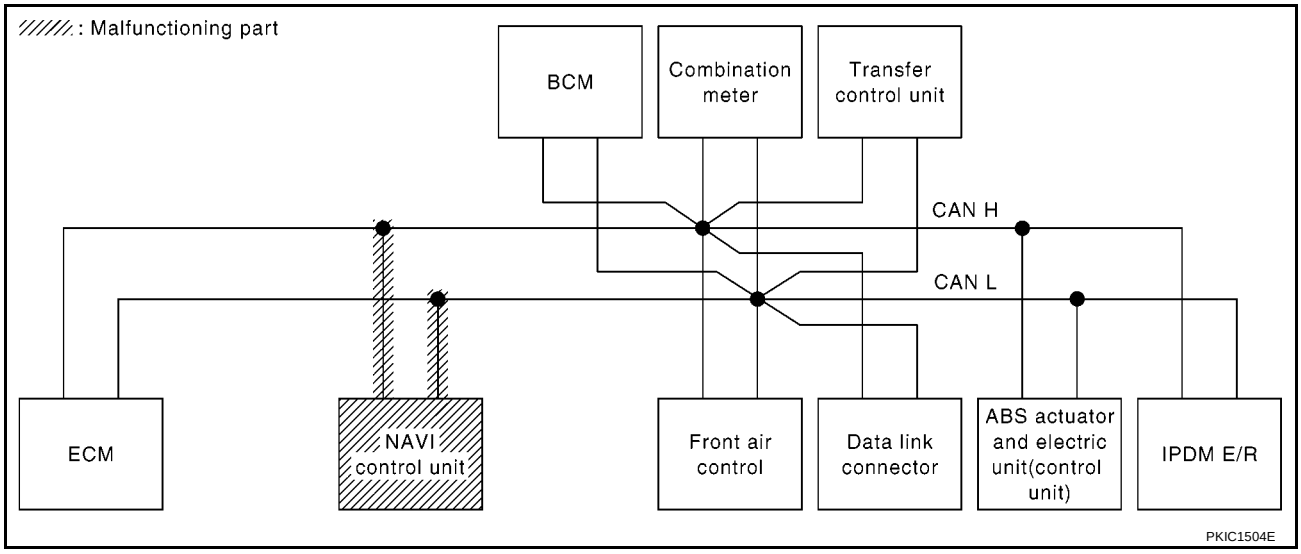


Case 4

Check NAVI control unit circuit. Refer to LAN-299, "NAVI 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1886E

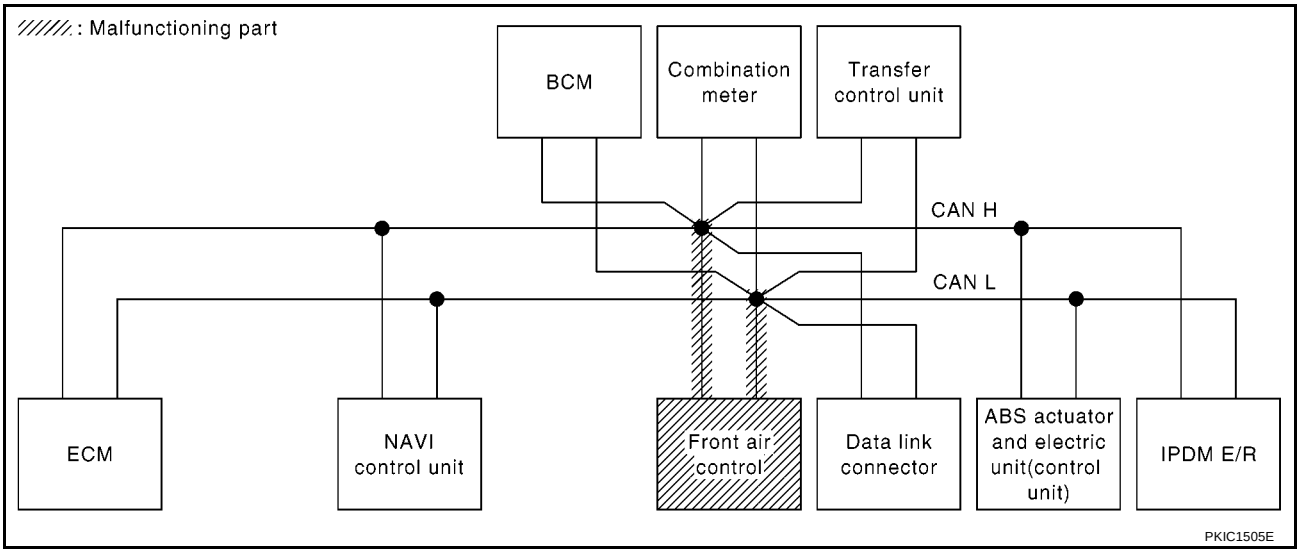


Case 5

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1887E



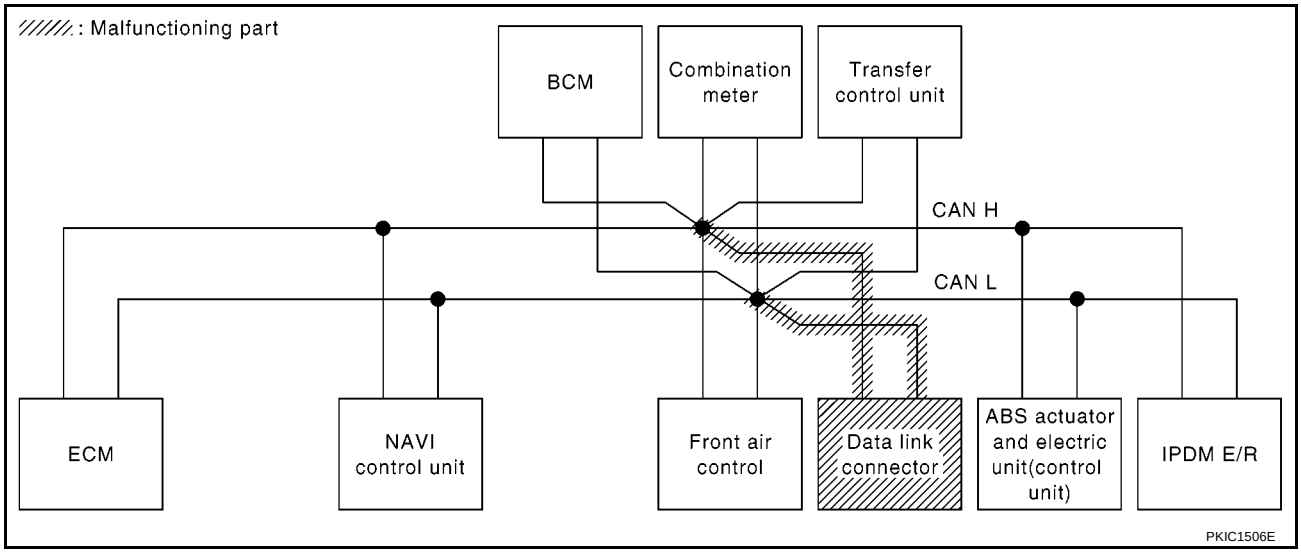
PKIC1505E

Case 6

Check data link connector circuit. Refer to LAN-300, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1888E

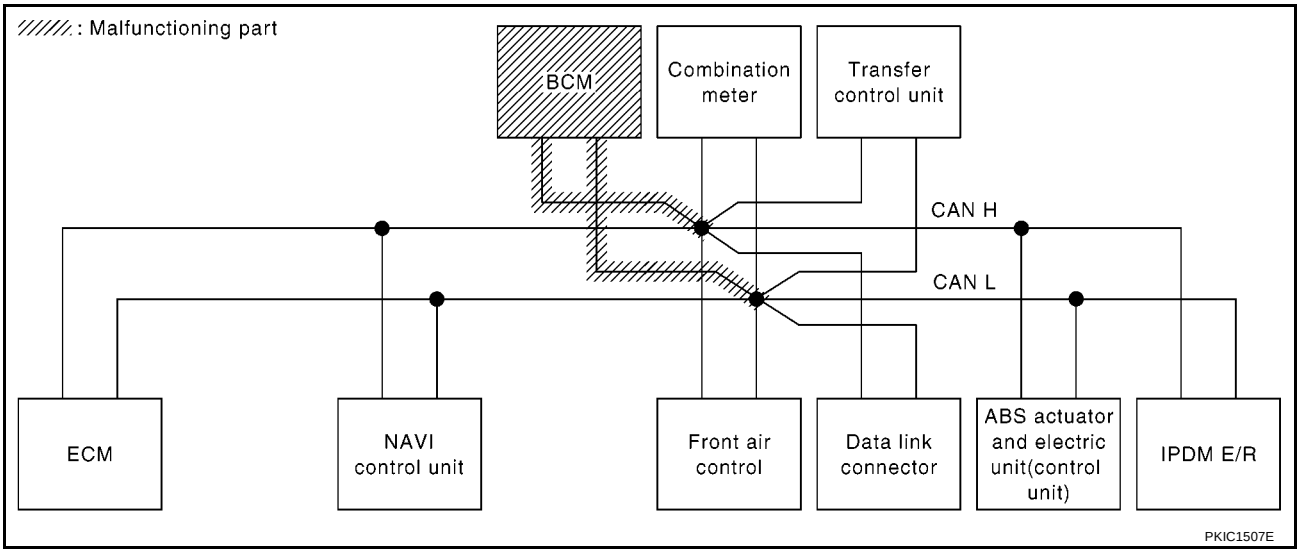


Case 7

Check BCM circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1889E



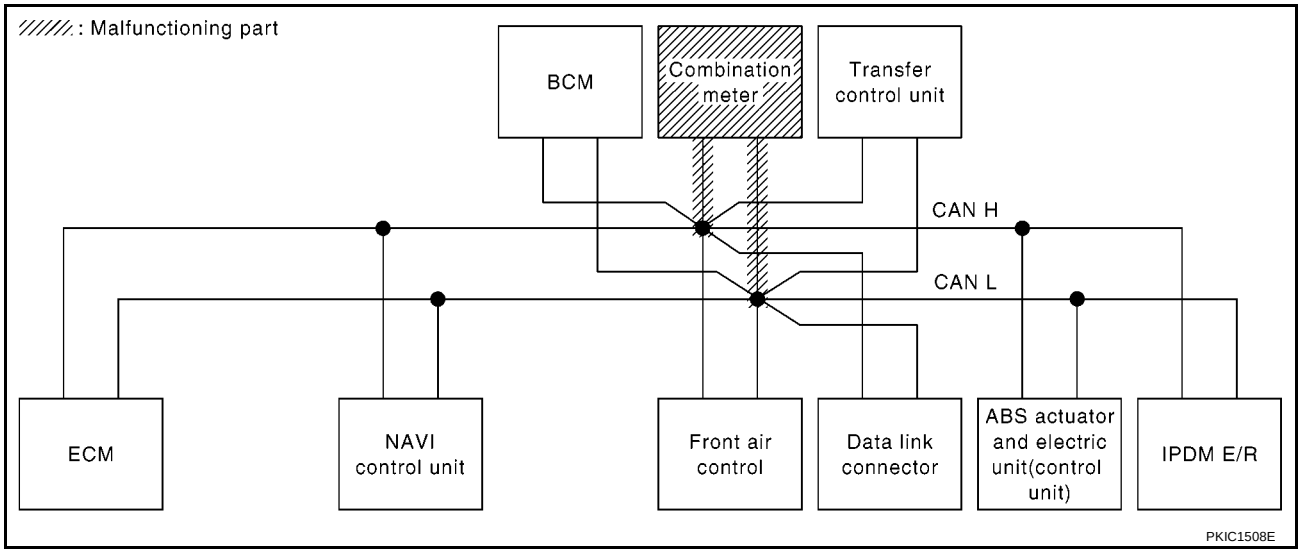
PKIC1507E

Case 8

Check combination meter circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1890E

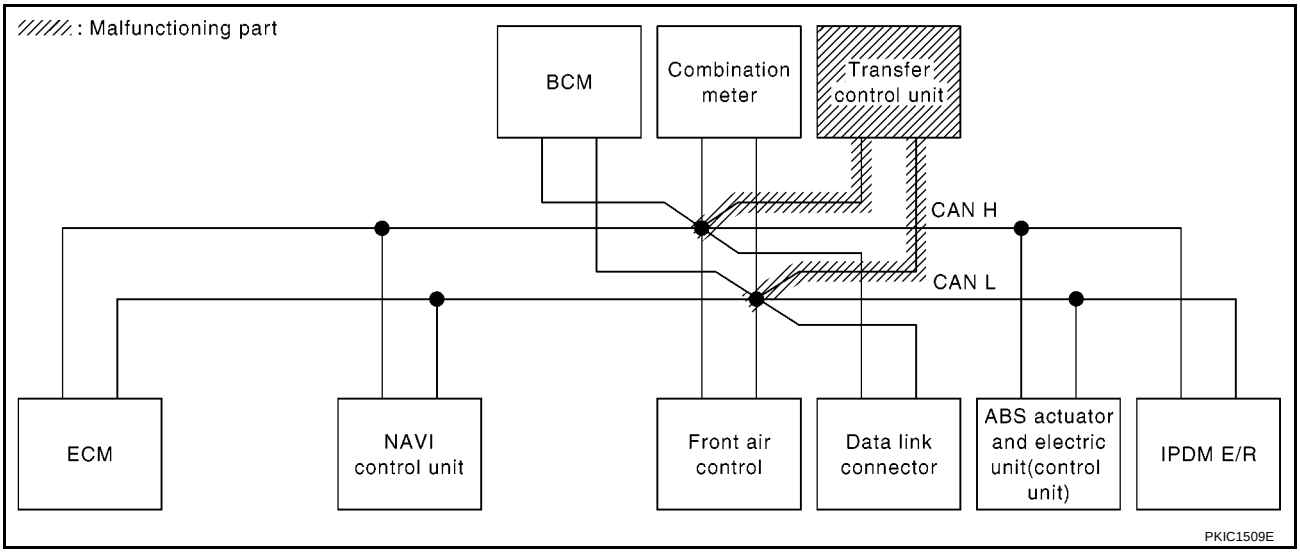


Case 9

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1891E

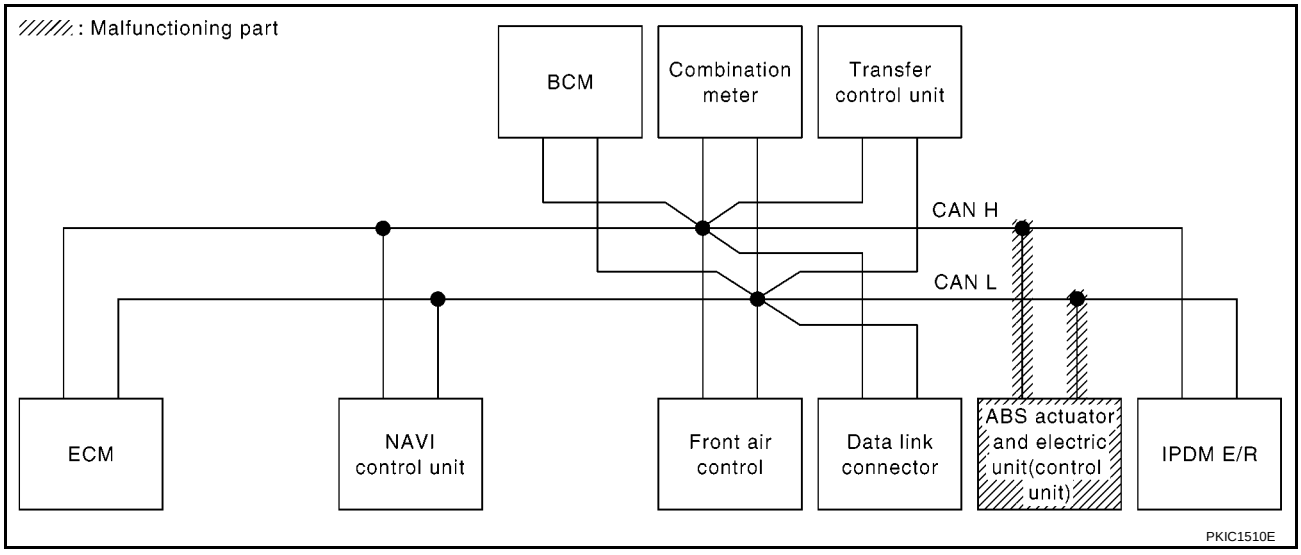


Case 10

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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)

PKIC1892E

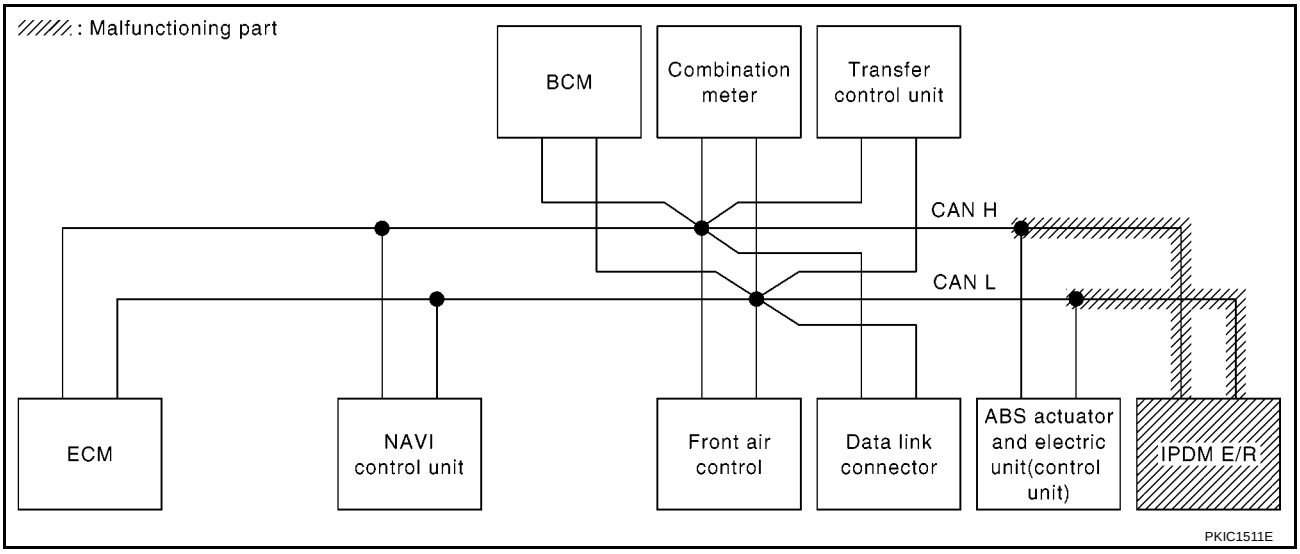


Case 11

Check IPDM E/R circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1893E



PKIC1511E

Case 12

Check CAN communication circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1894E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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)

PKIC1895E

Case 14

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1896E

CAN SYSTEM (TYPE 11)

PFP:23710

Component Parts and Harness Connector Location

EKS00OF3

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OF4

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OF5

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00OF6

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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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 :

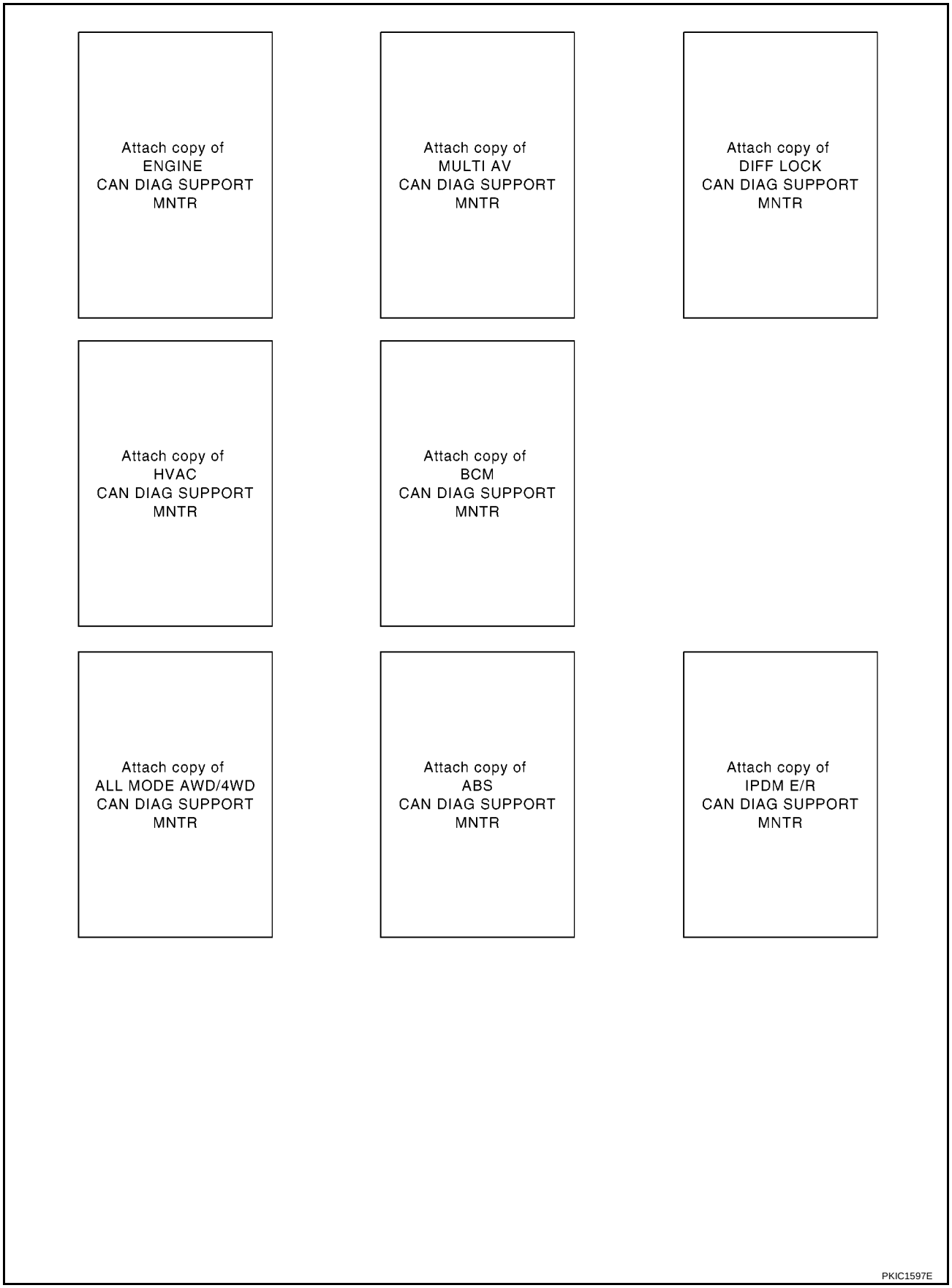
Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIC1425E

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of MULTI AV SELF-DIAG RESULTS	Attach copy of DIFF LOCK SELF-DIAG RESULTS
Attach copy of HVAC SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER SELF-DIAG RESULTS
Attach copy of ALL MODE AWD/4WD SELF-DIAG RESULTS	Attach copy of ABS SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS

PKIC1596E


Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
MULTI AV
CAN DIAG SUPPORT
MNTR
Attach copy of
DIFF LOCK
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC1597E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

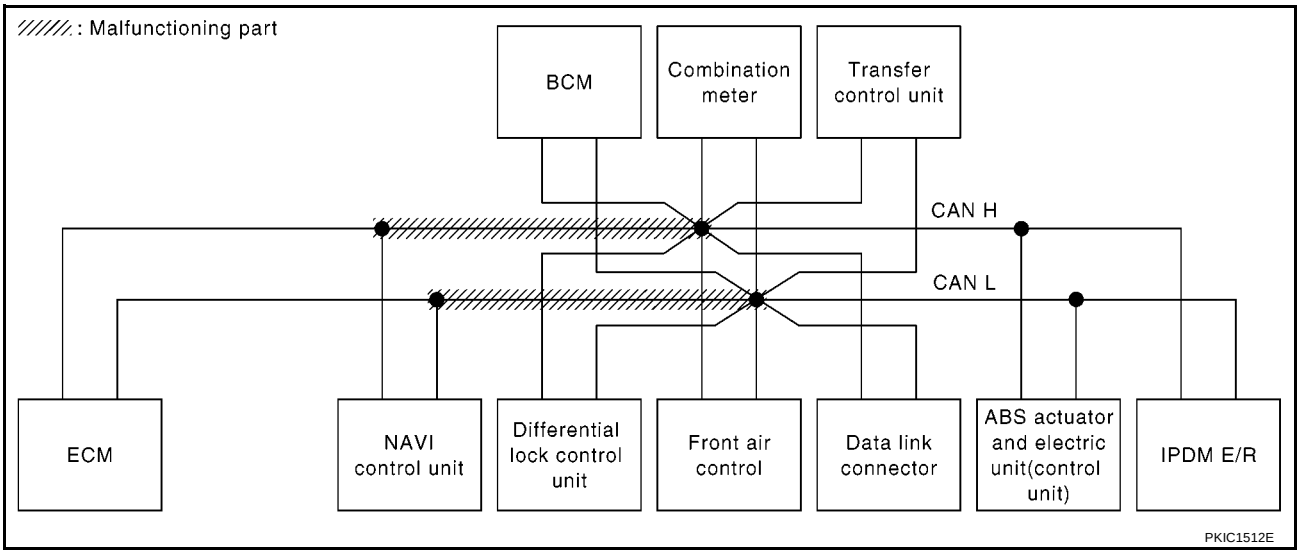
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between NAVI control unit and data link connector circuit. Refer to LAN-295, "Inspection Between NAVI Control Unit and Data Link Connector Circuit" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN	UNKWN ✓	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN ✓	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN ✓	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1897E



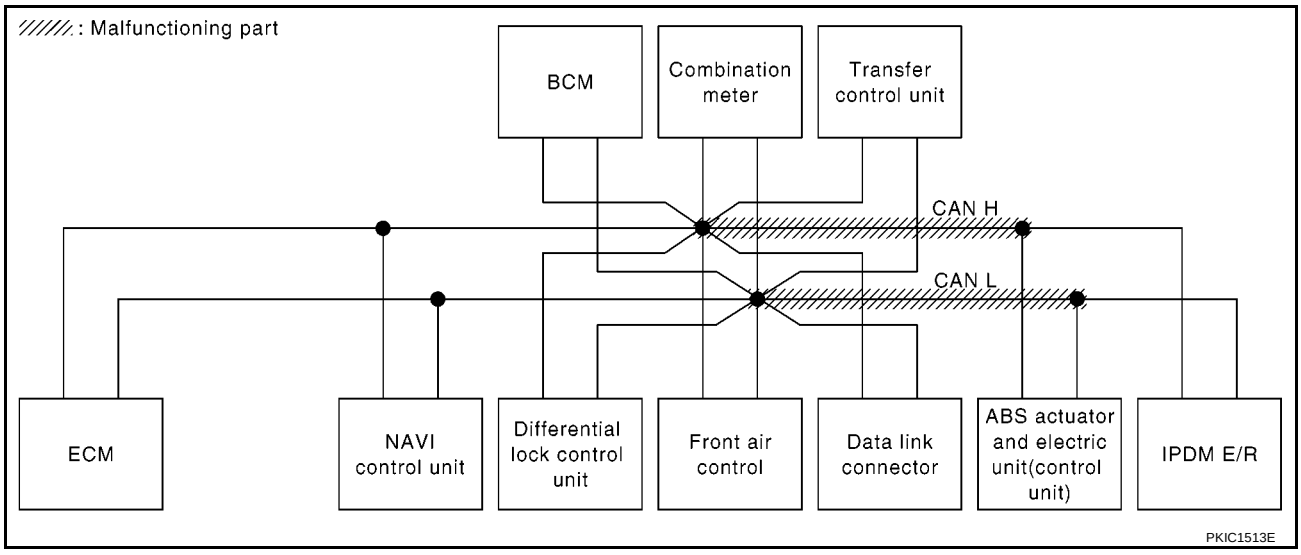
PKIC1512E

Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1898E

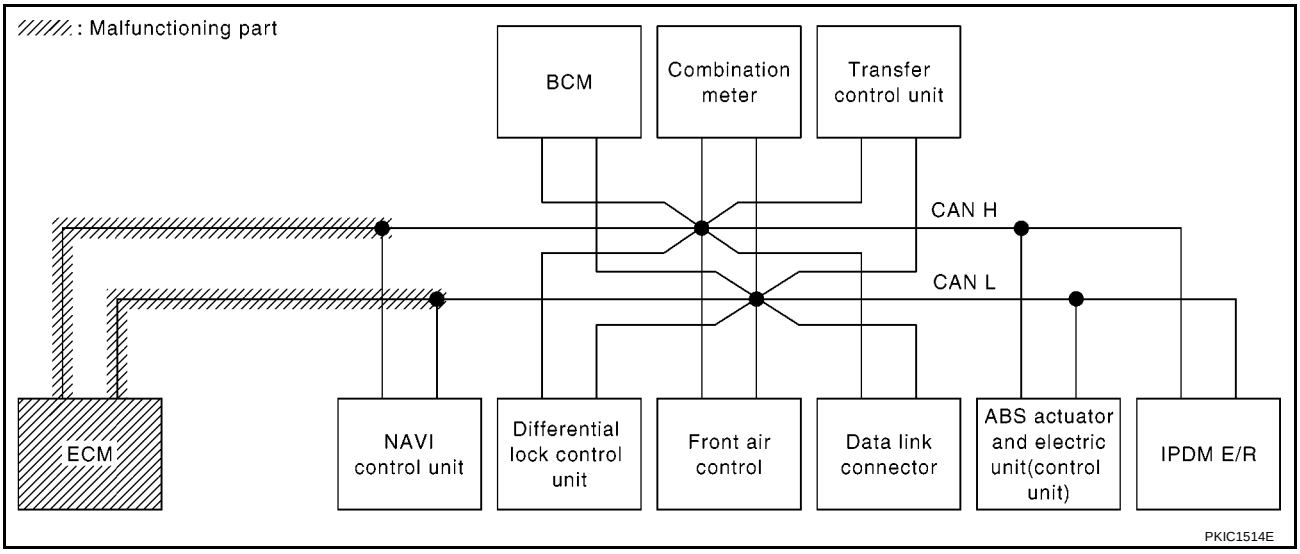


Case 3

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1899E



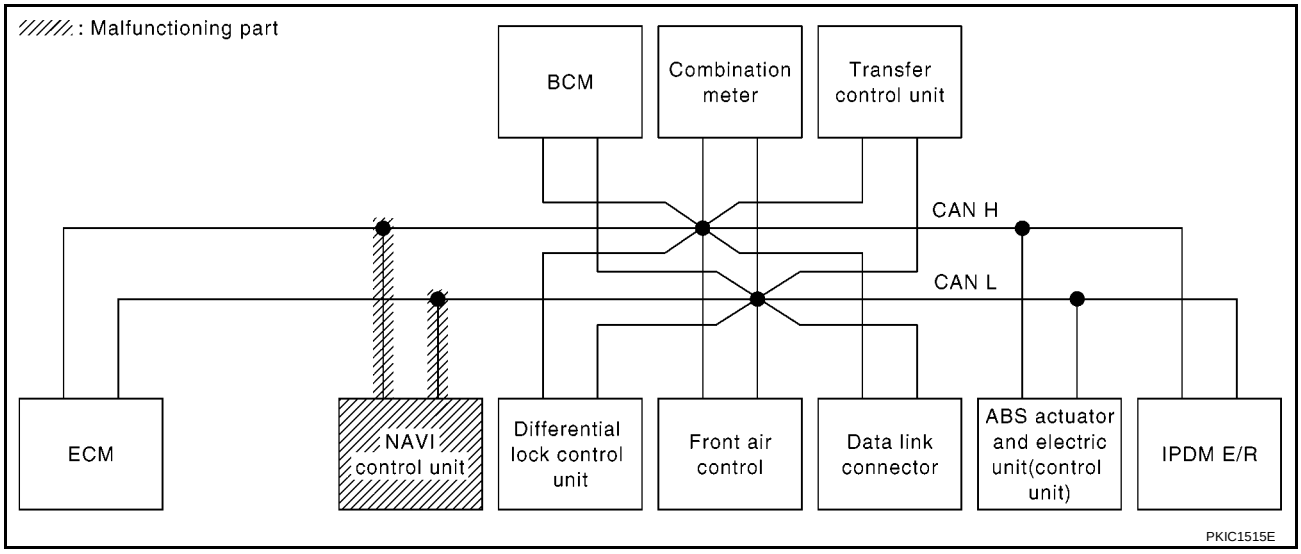
PKIC1514E

Case 4

Check NAVI control unit circuit. Refer to LAN-299, "NAVI 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1900E



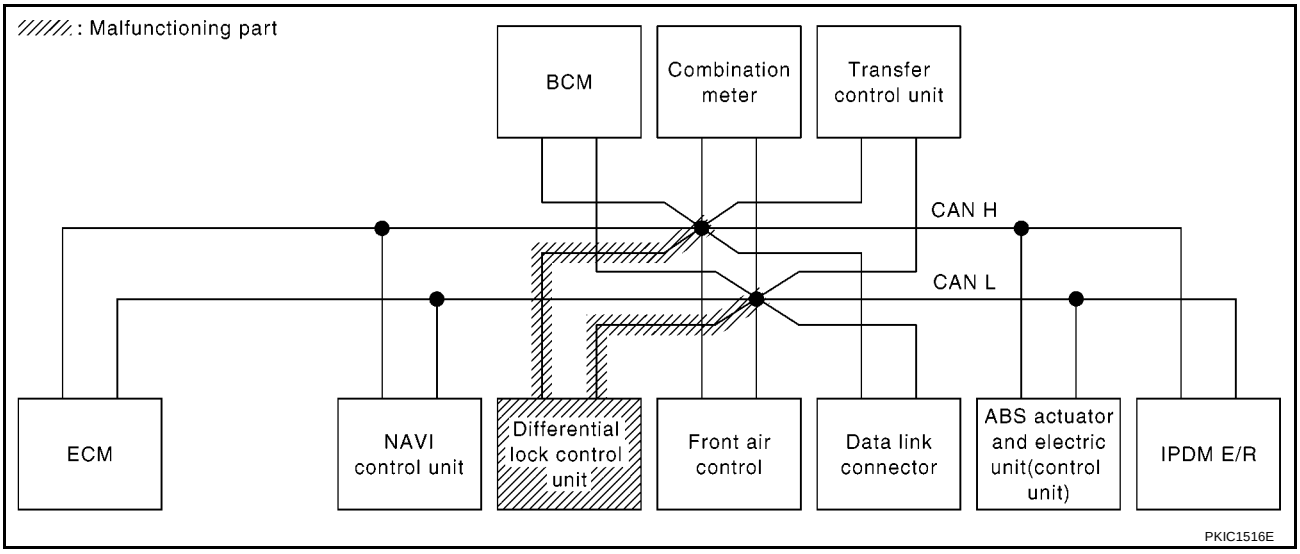
PKIC1515E

Case 5

Check differential lock control unit circuit. Refer to LAN-299, "Differential Lock 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1901E



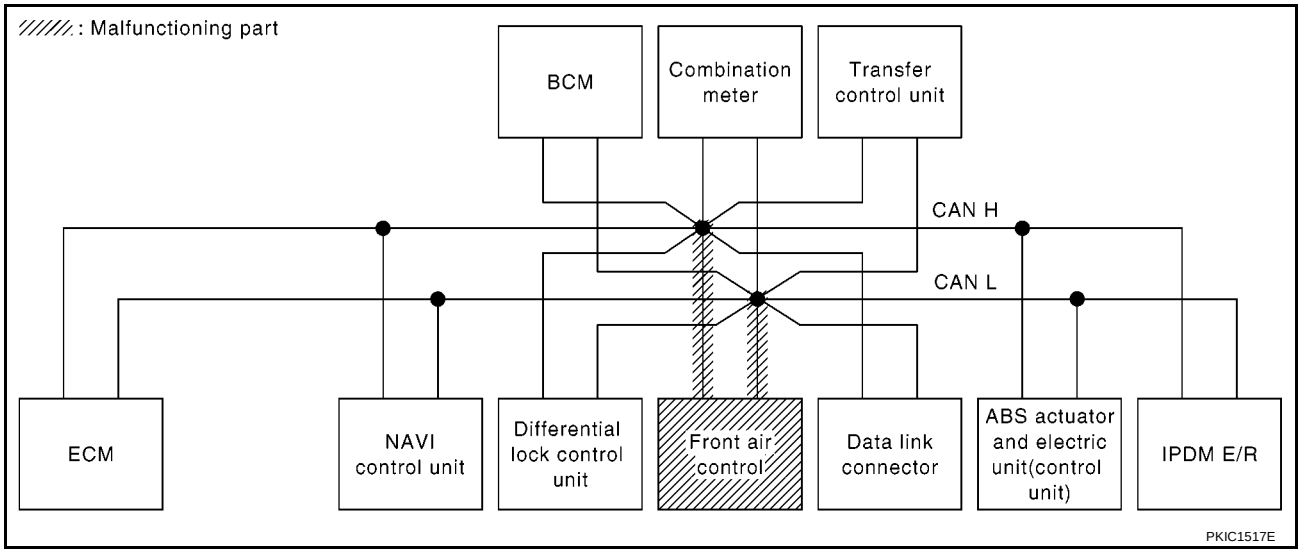
PKIC1516E

Case 6

Check front air control circuit. Refer to LAN-300, "Front Air Control Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1902E



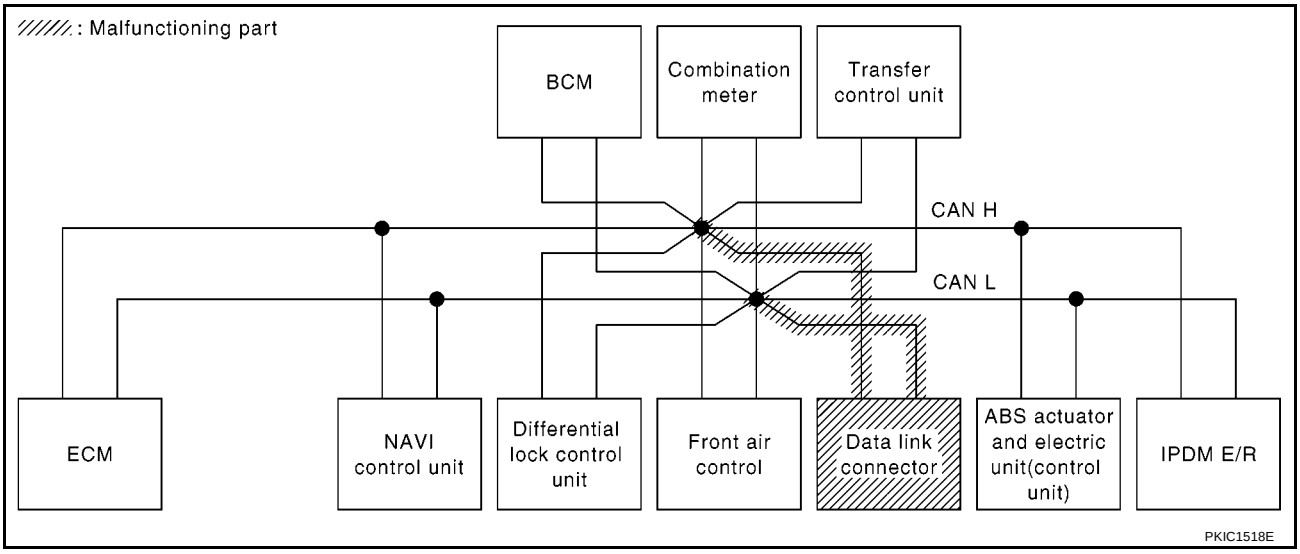
PKIC1517E

Case 7

Check data link connector circuit. Refer to LAN-300, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1903E



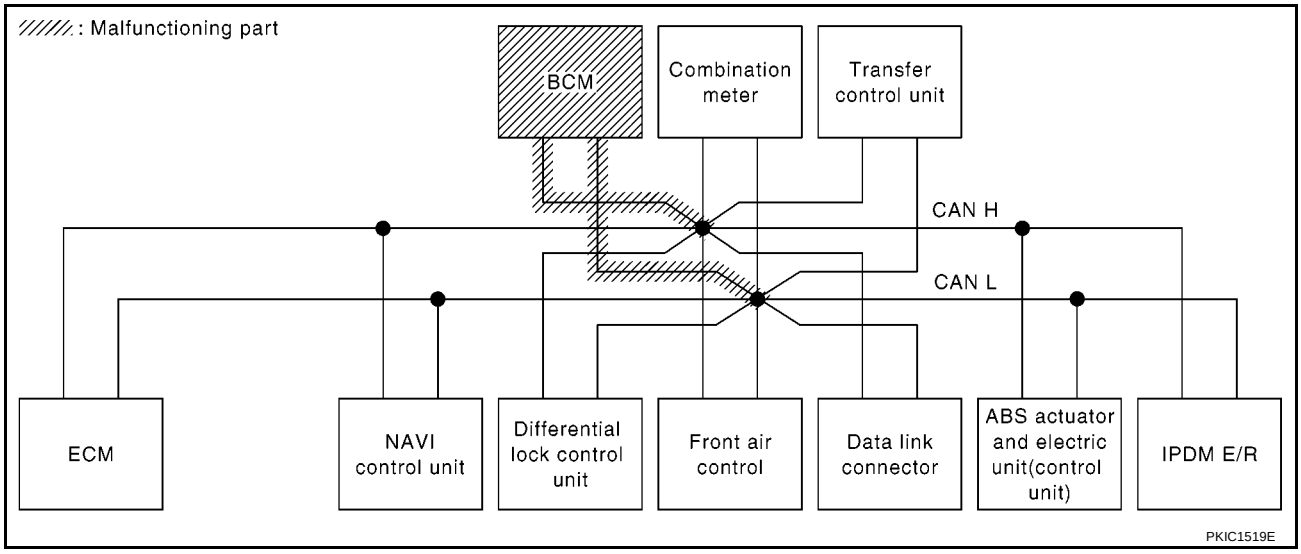
PKIC1518E

Case 8

Check BCM circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN ✓	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN ✓	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication ✓	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1904E



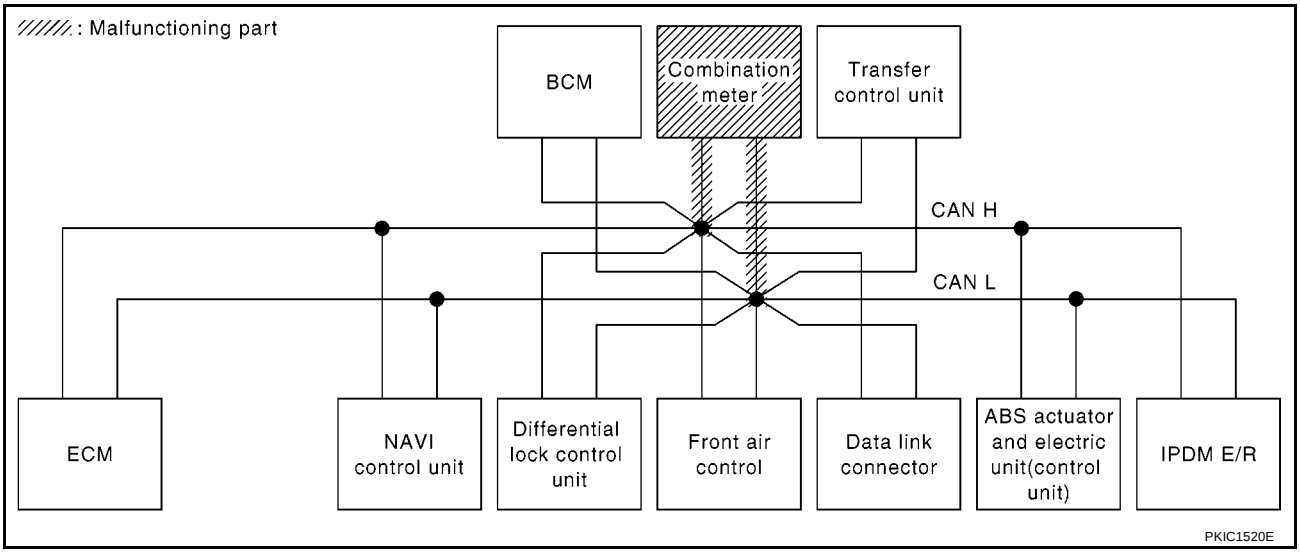
PKIC1519E

Case 9

Check combination meter circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN ✓	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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)

PKIC1905E



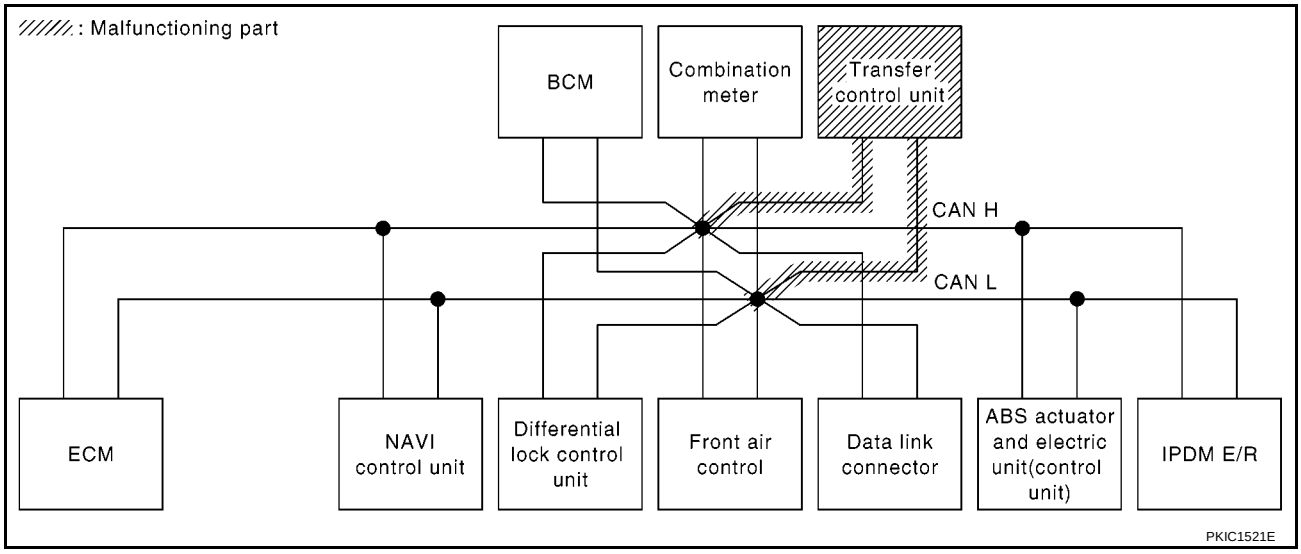
PKIC1520E

Case 10

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1906E

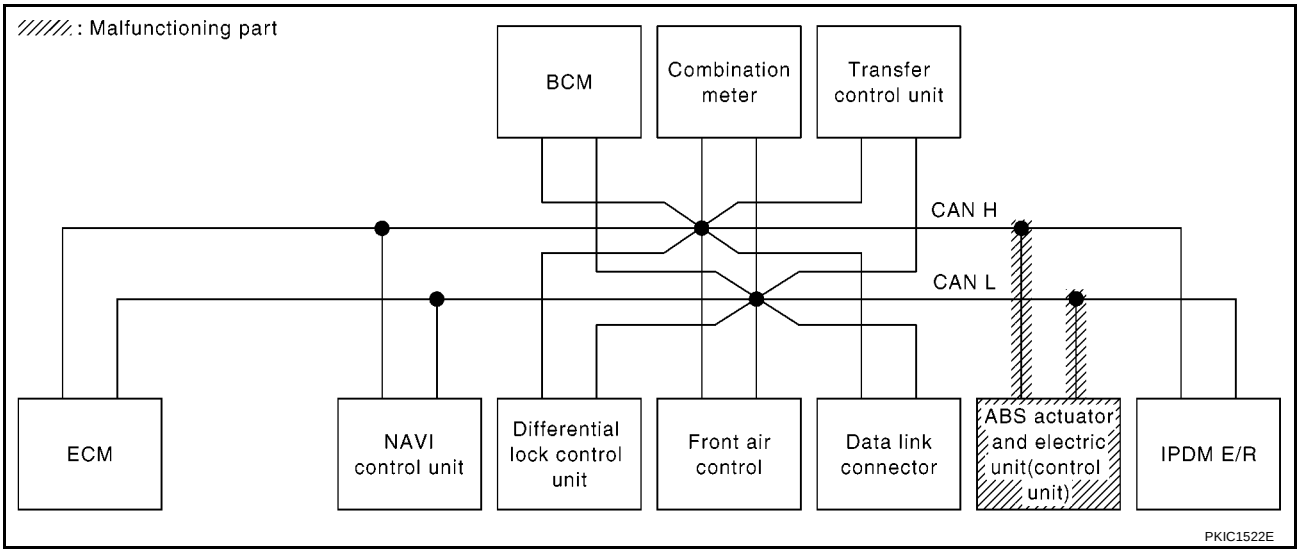


Case 11

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1907E



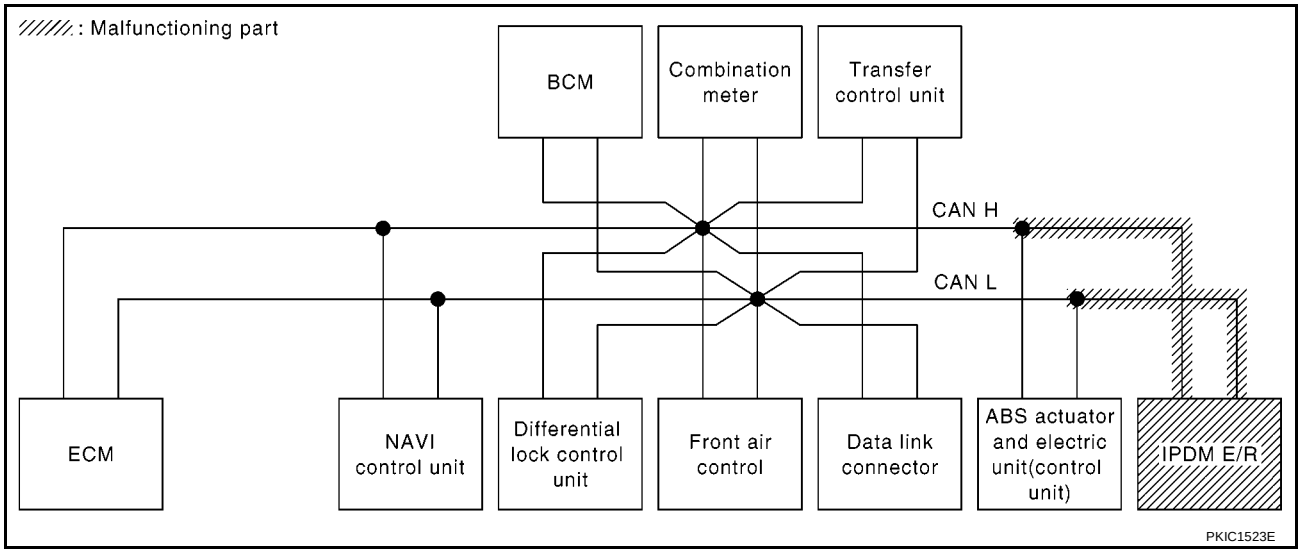
PKIC1522E

Case 12

Check IPDM E/R circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1908E



PKIC1523E

Case 13

Check CAN communication circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN ✓	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication ✓	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication ✓	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1909E

Case 14

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1910E

Case 15

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1911E

CAN SYSTEM (TYPE 12)

PFP:23710

Component Parts and Harness Connector Location

EKS00OEZ

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OF0

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OF1

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00OF2

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

Check sheet table

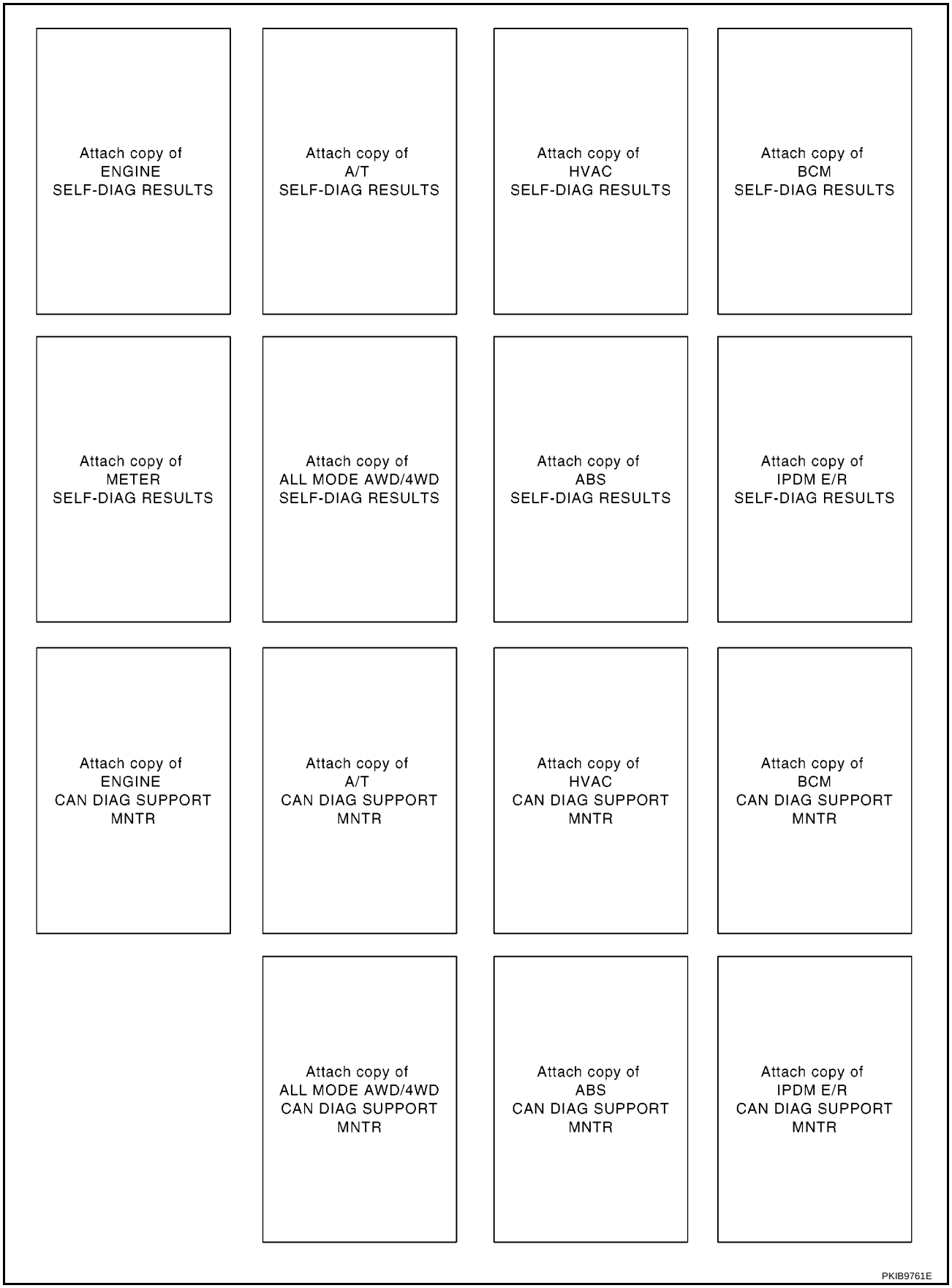
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIC1426E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
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
A/T
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB9761E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

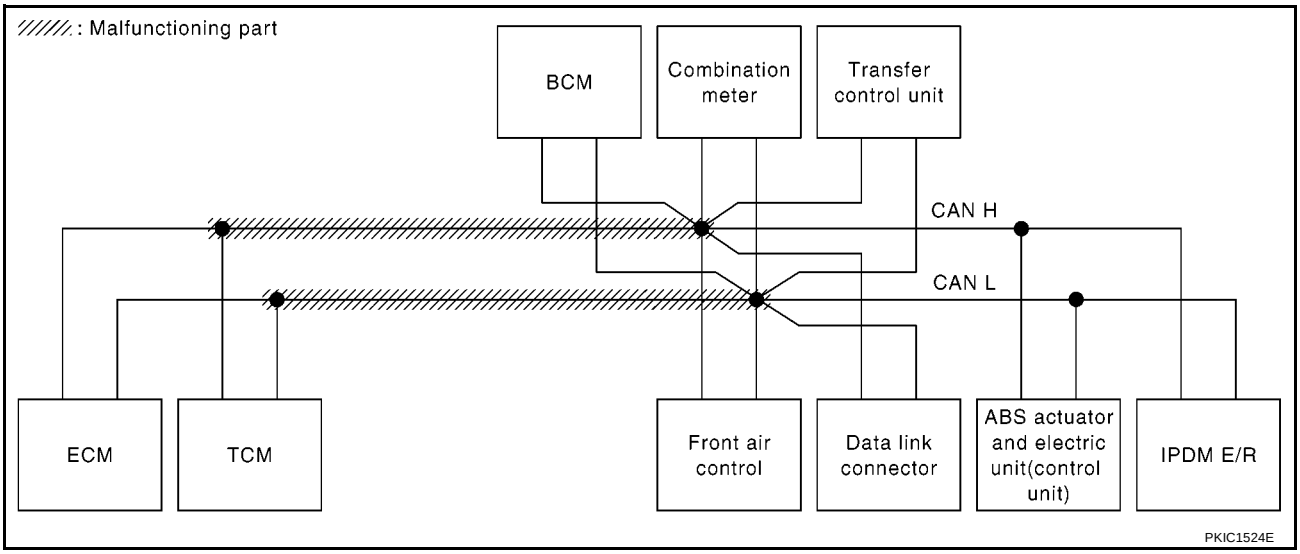
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector circuit. Refer to LAN-292, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN ✓	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1912E



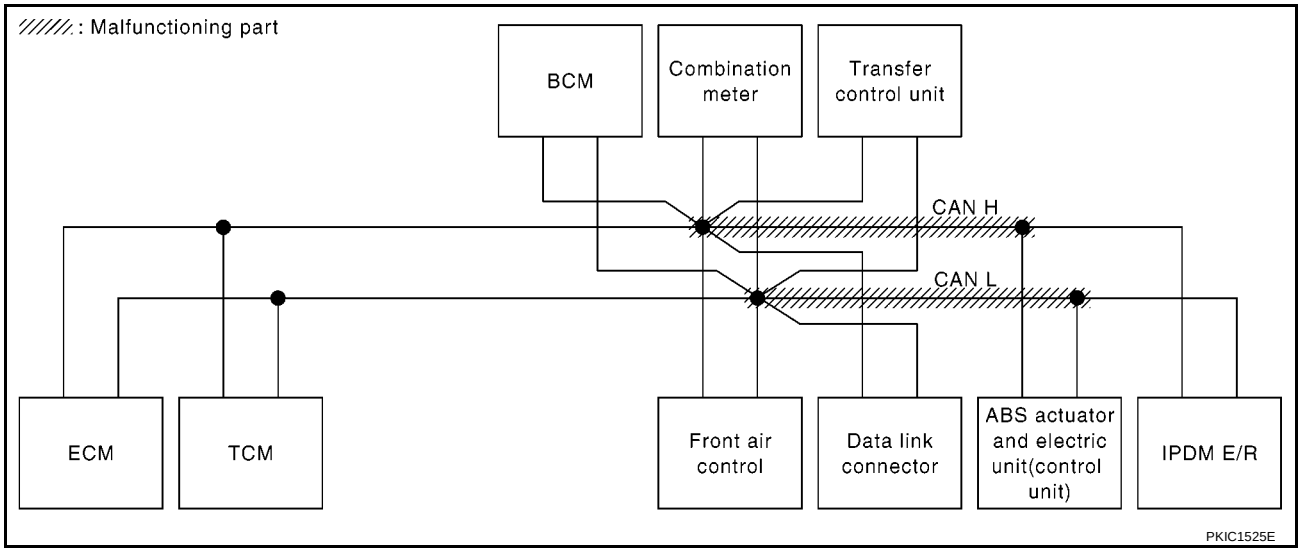
PKIC1524E

Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1913E

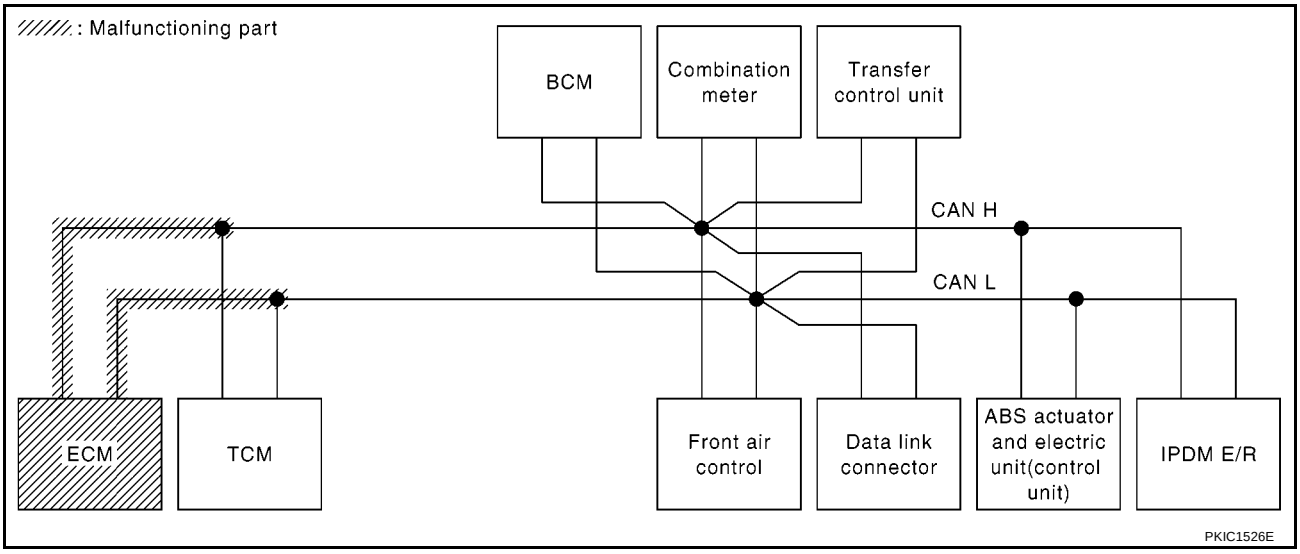


Case 3

Check ECM circuit. Refer to LAN-298, "ECM Circuit Inspection for A/T Models" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1914E



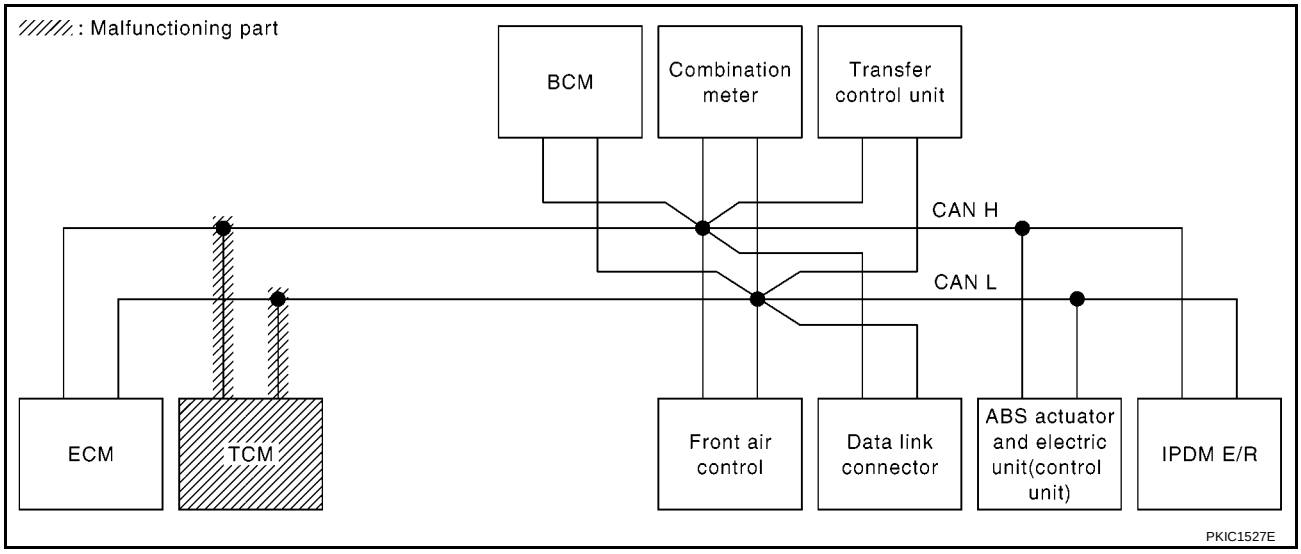
PKIC1526E

Case 4

Check TCM circuit. Refer to LAN-298, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1915E



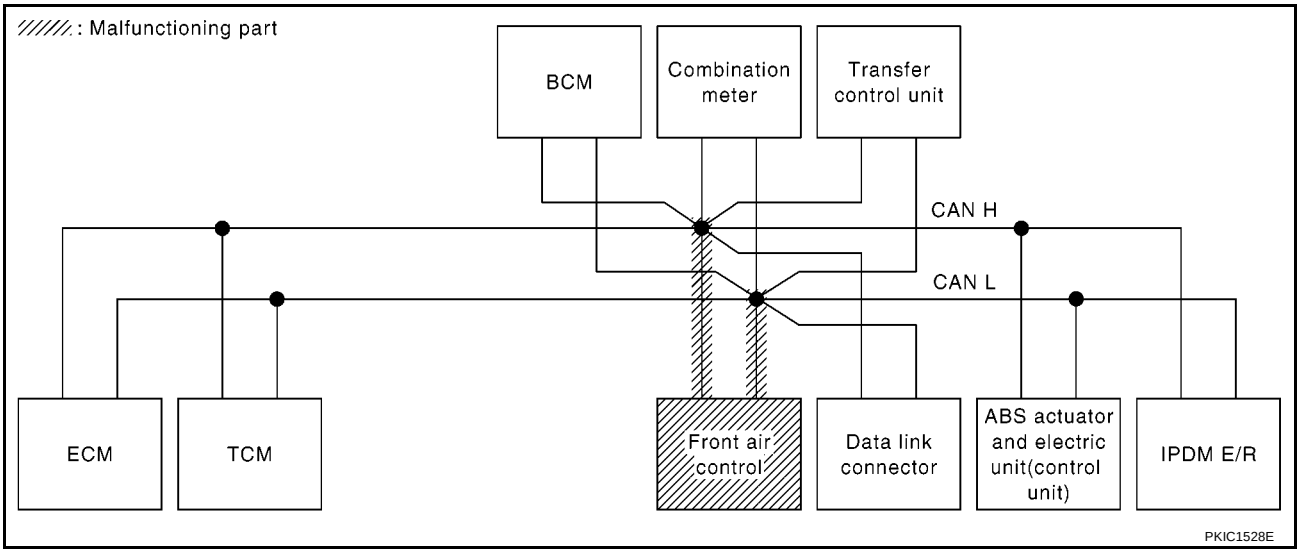
PKIC1527E

Case 5

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1916E



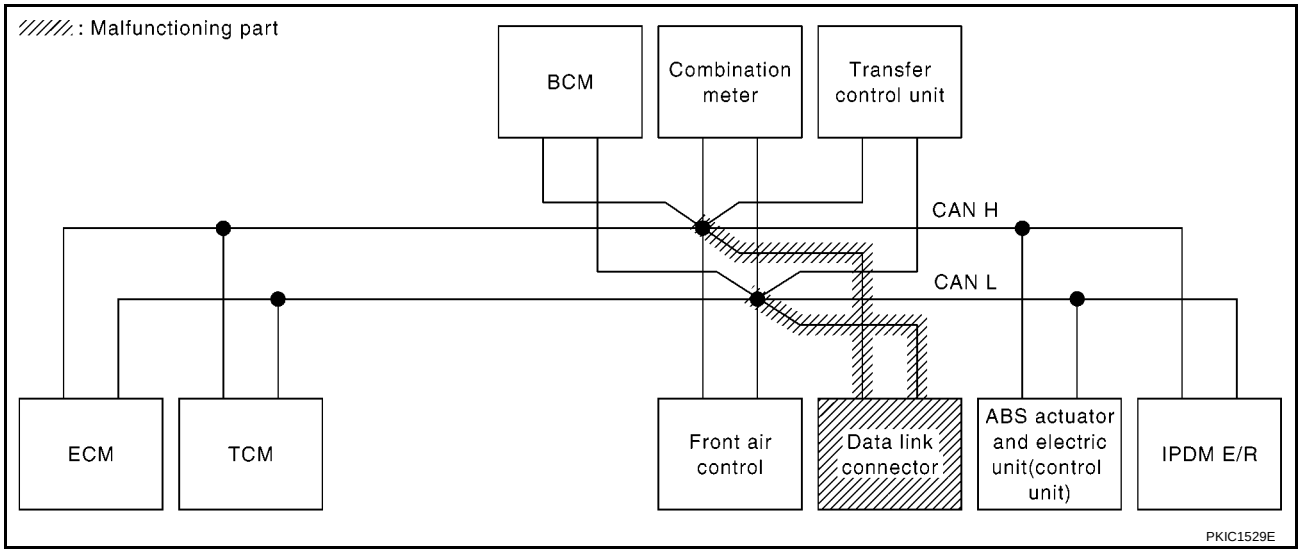
PKIC1528E

Case 6

Check data link connector circuit. Refer to LAN-300, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1917E



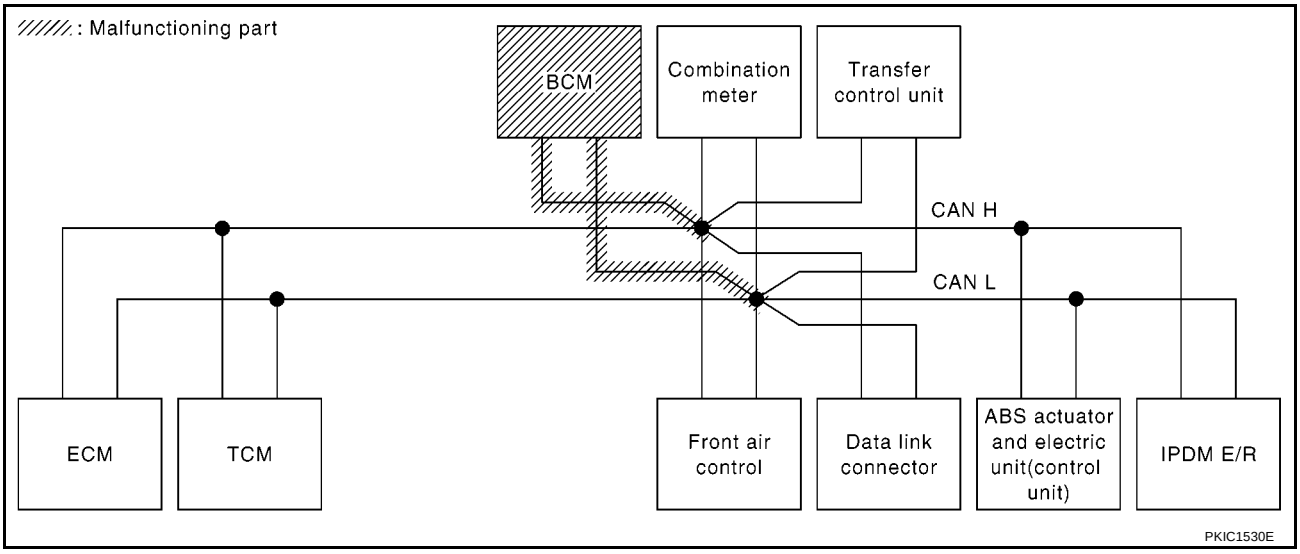
PKIC1529E

Case 7

Check BCM circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1918E



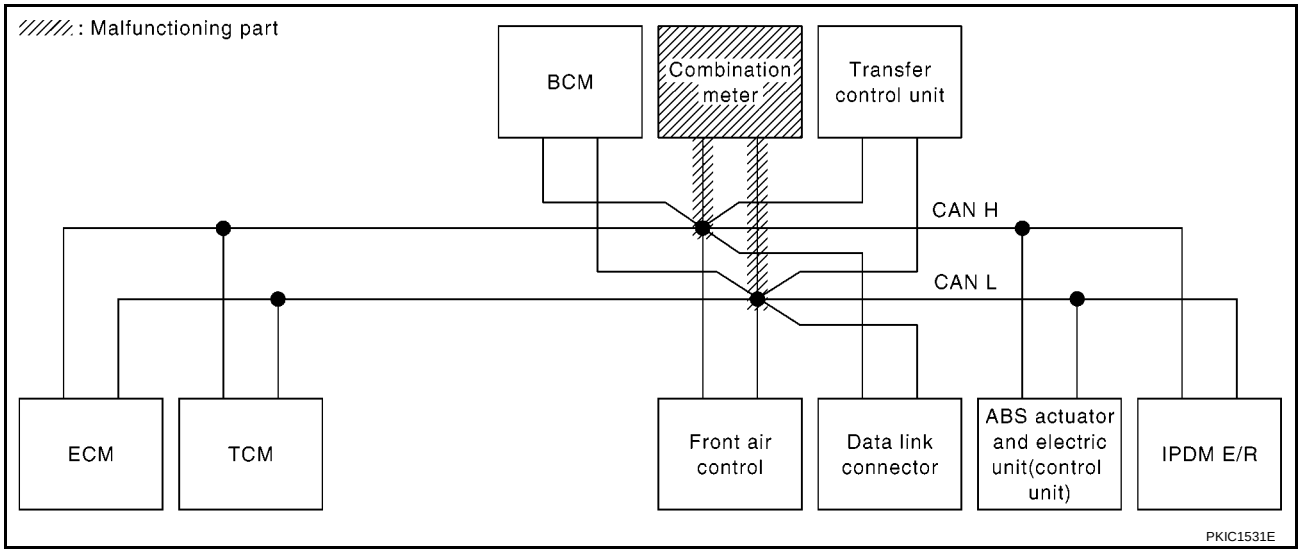
PKIC1530E

Case 8

Check combination meter circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN	—	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN ✓	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN ✓	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1919E



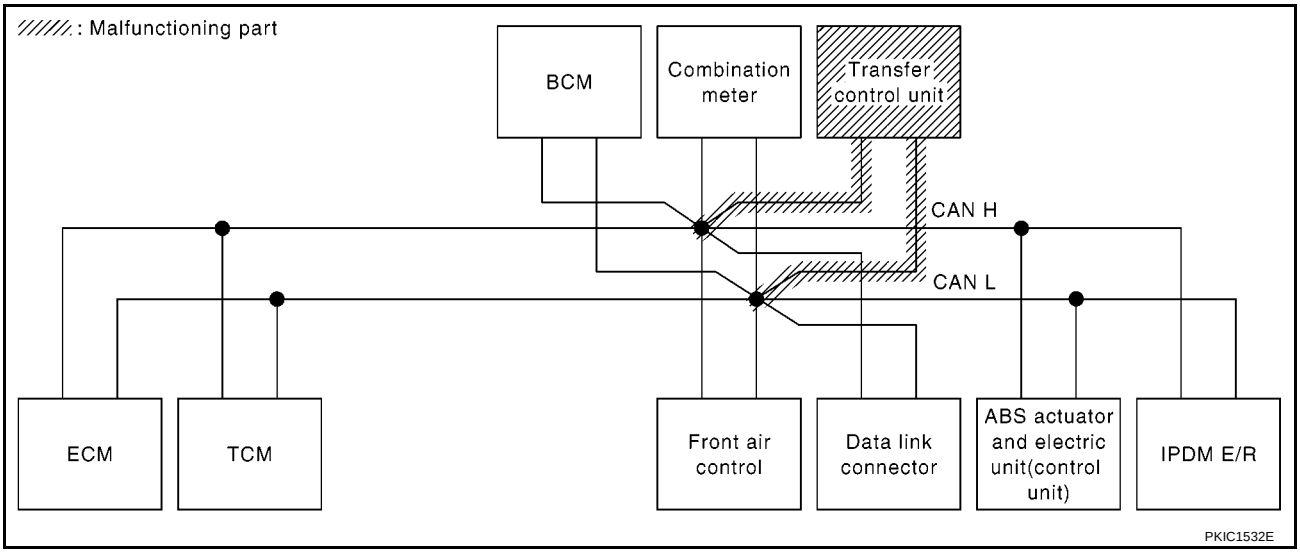
PKIC1531E

Case 9

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1920E



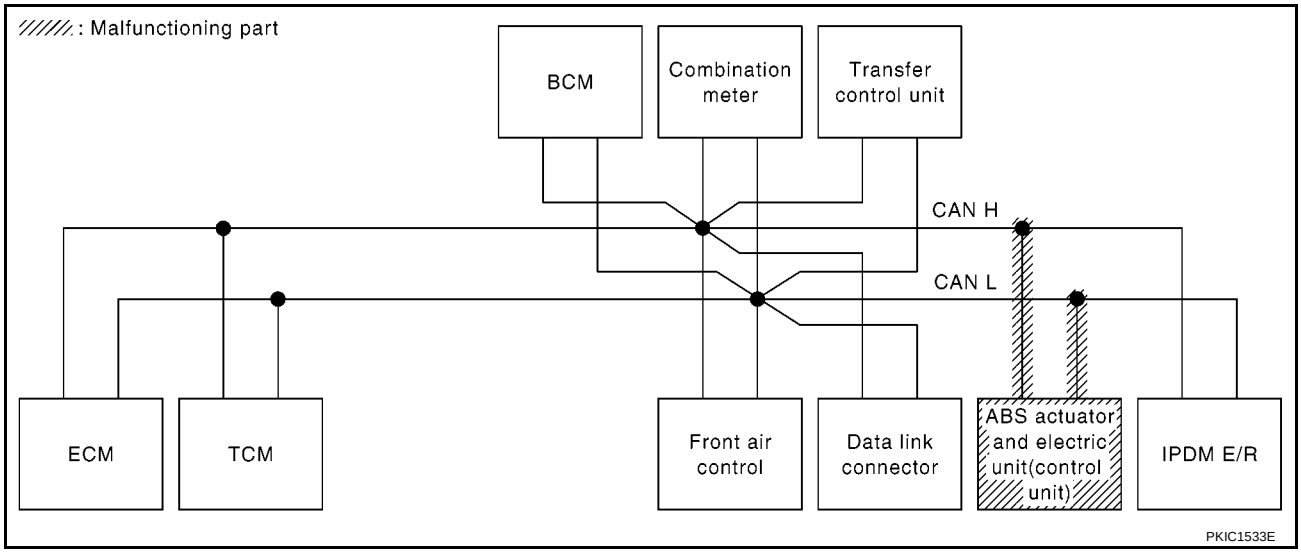
PKIC1532E

Case 10

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1921E



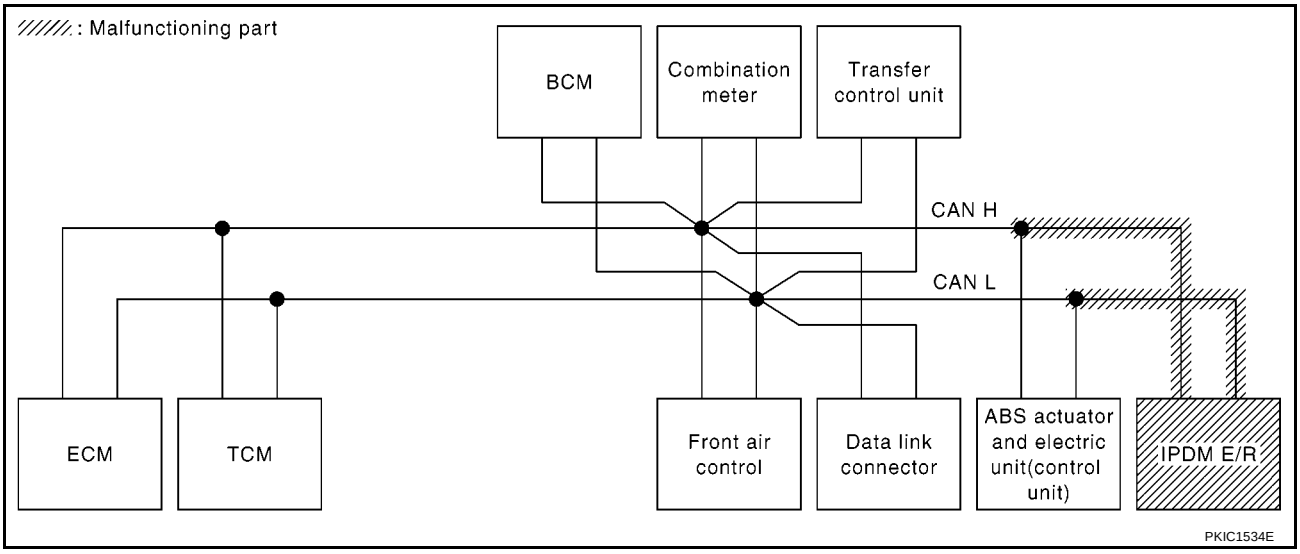
PKIC1533E

Case 11

Check IPDM E/R circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1922E



PKIC1534E

Case 12

Check CAN communication circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1923E

Case 13

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1924E

Case 14

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	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)

PKIC1925E

CAN SYSTEM (TYPE 13)

PFP:23710

Component Parts and Harness Connector Location

EKS00ODE

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00ODF

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00ODG

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00ODH

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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

Symptoms :

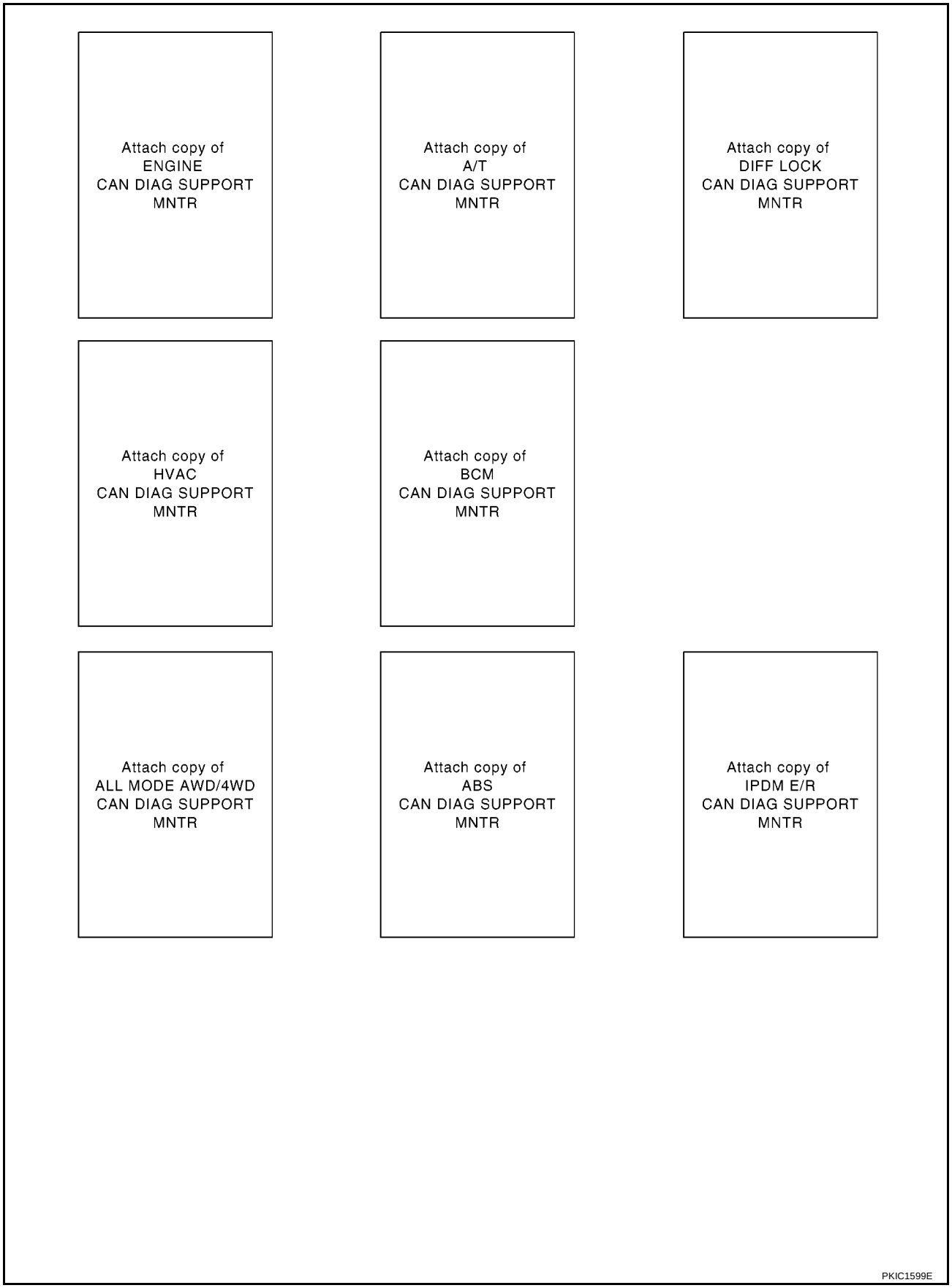
Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIC1427E

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of A/T SELF-DIAG RESULTS	Attach copy of DIFF LOCK SELF-DIAG RESULTS
Attach copy of HVAC SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER SELF-DIAG RESULTS
Attach copy of ALL MODE AWD/4WD SELF-DIAG RESULTS	Attach copy of ABS SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS

PKIC1598E


Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
CAN DIAG SUPPORT
MNTR
Attach copy of
DIFF LOCK
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC1599E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

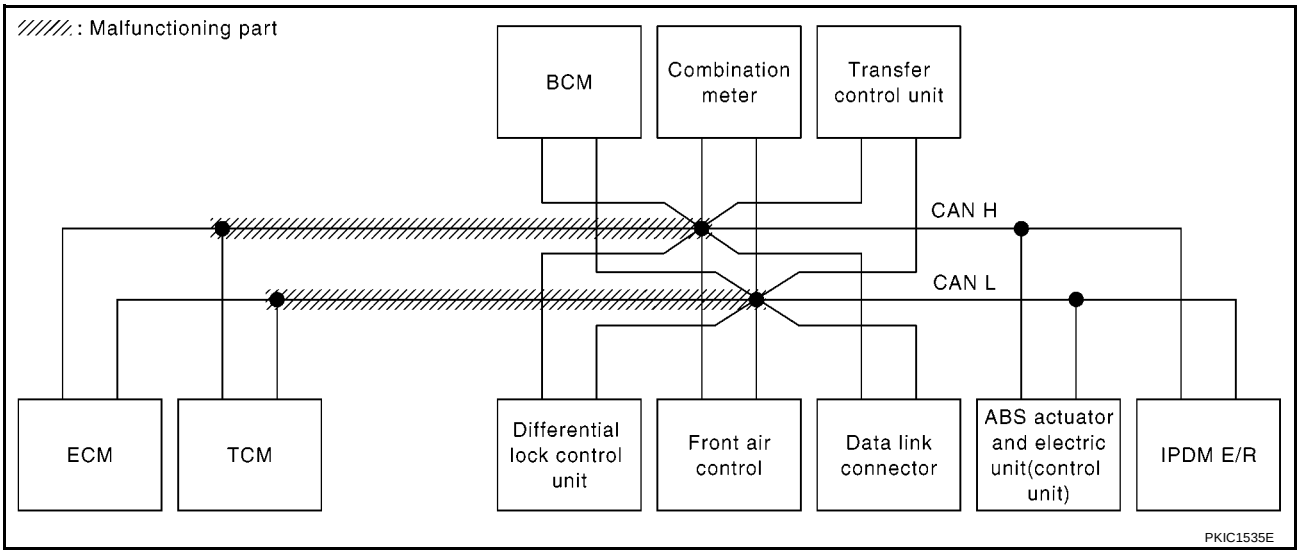
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and data link connector circuit. Refer to LAN-292, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN	UNKWN ✓	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN ✓	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1928E



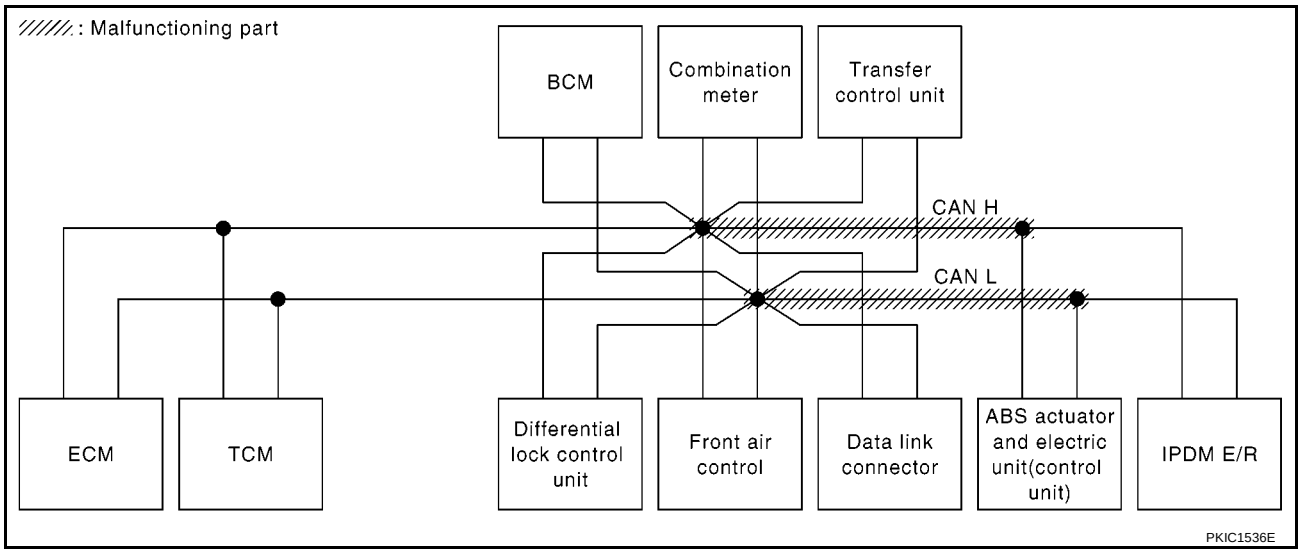
PKIC1535E

Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1929E



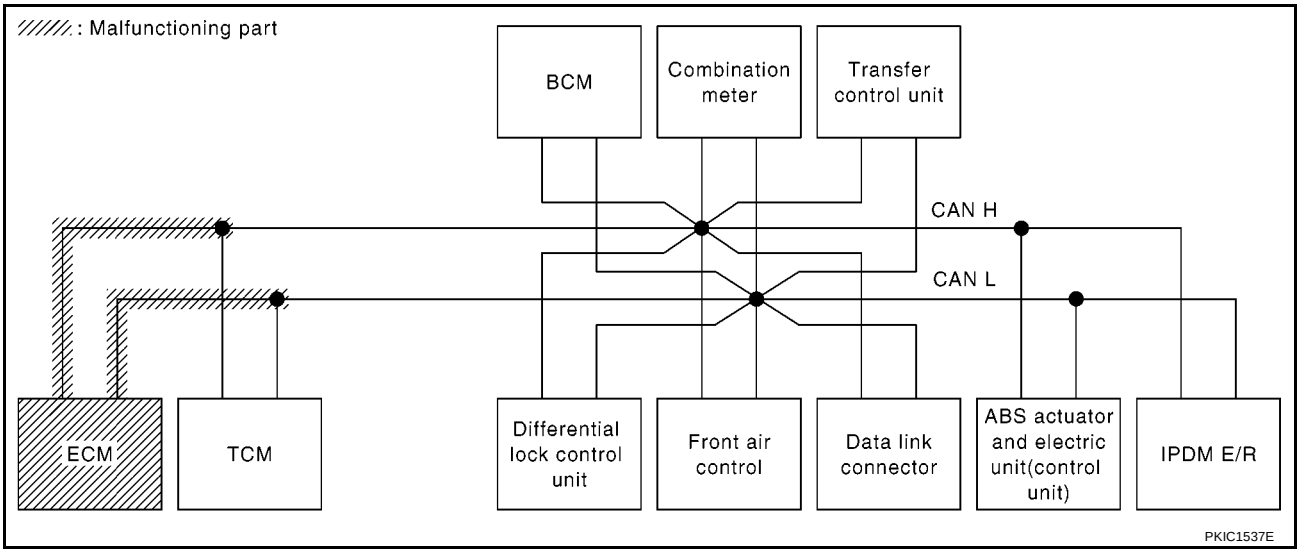
PKIC1536E

Case 3

Check ECM circuit. Refer to LAN-298, "ECM Circuit Inspection for A/T Models" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1930E



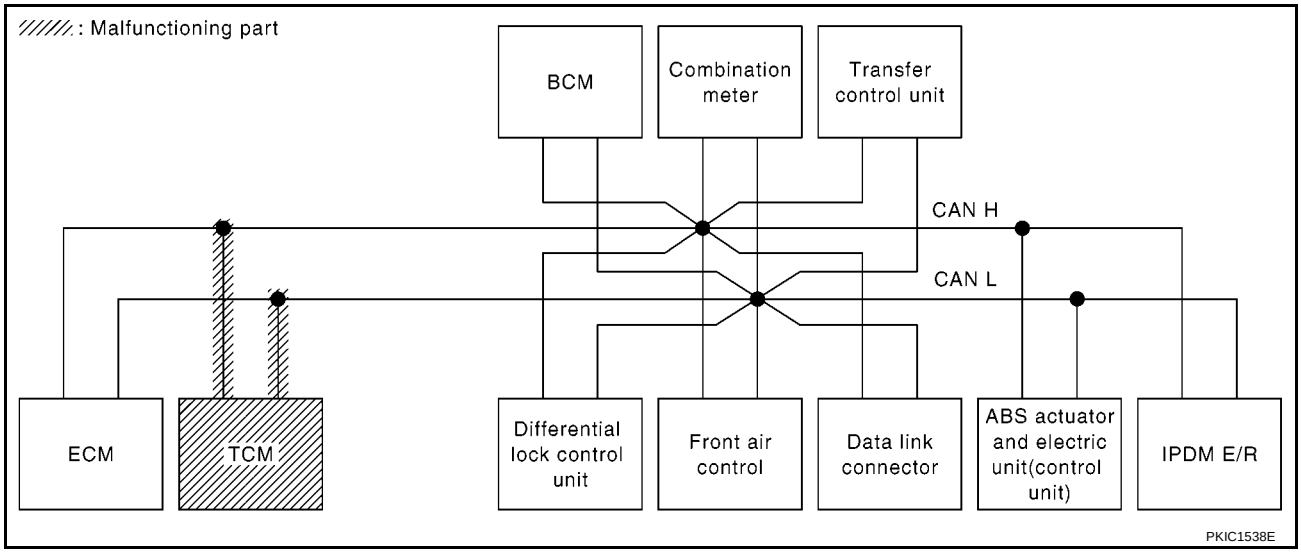
PKIC1537E

Case 4

Check TCM circuit. Refer to LAN-298, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1931E



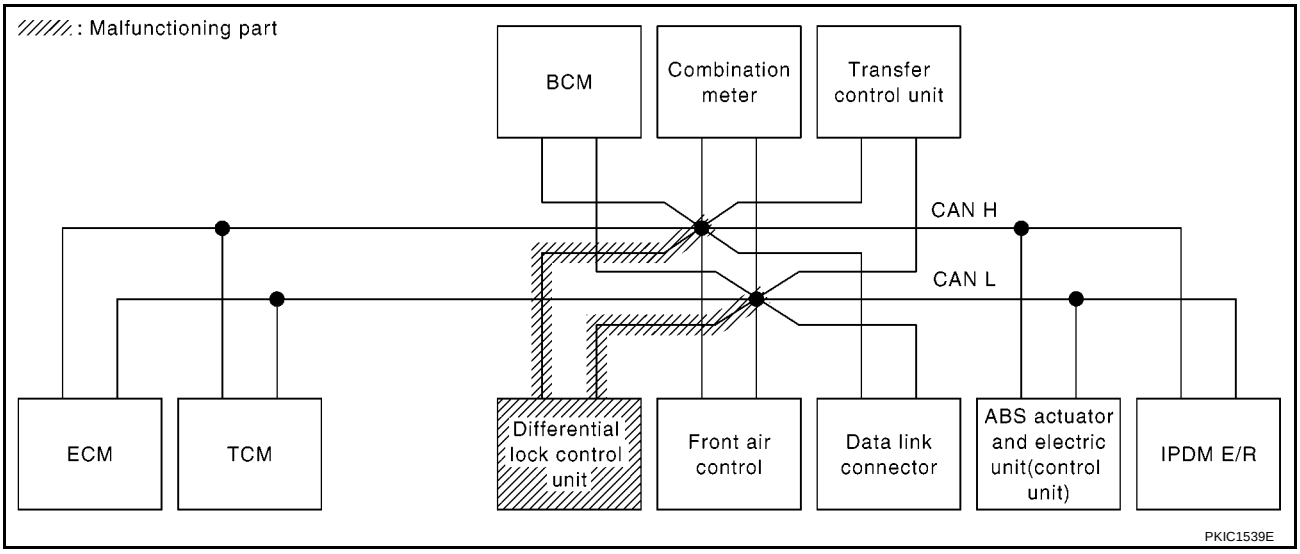
PKIC1538E

Case 5

Check differential lock control unit circuit. Refer to LAN-299, "Differential Lock 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN ✓	UNKWN ✓	—	—	—	UNKWN ✓	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1932E



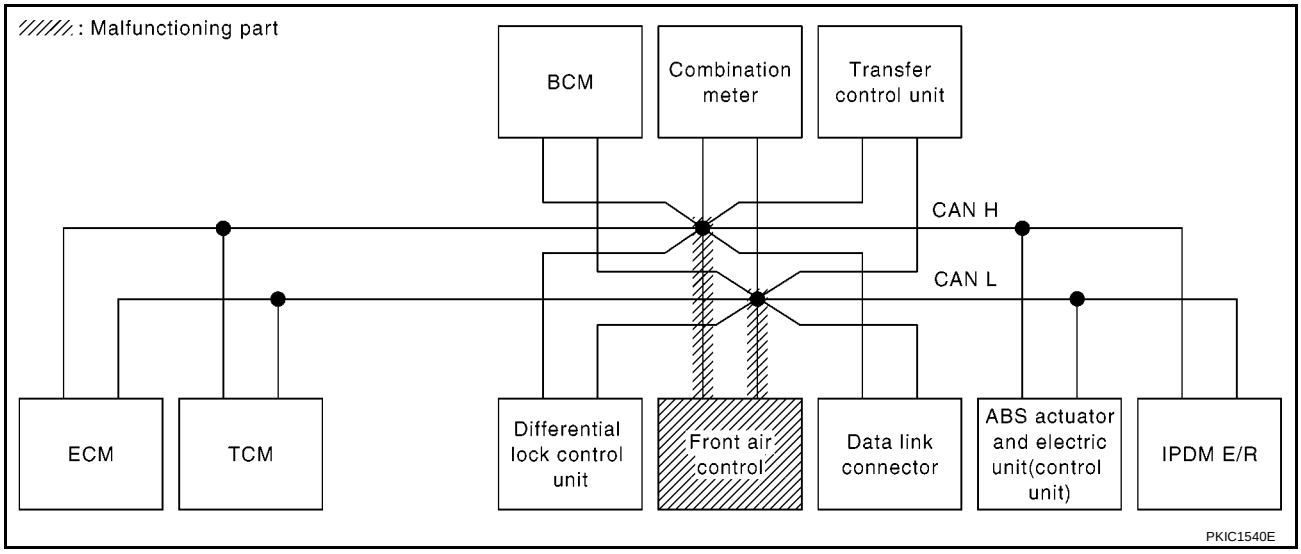
PKIC1539E

Case 6

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1933E



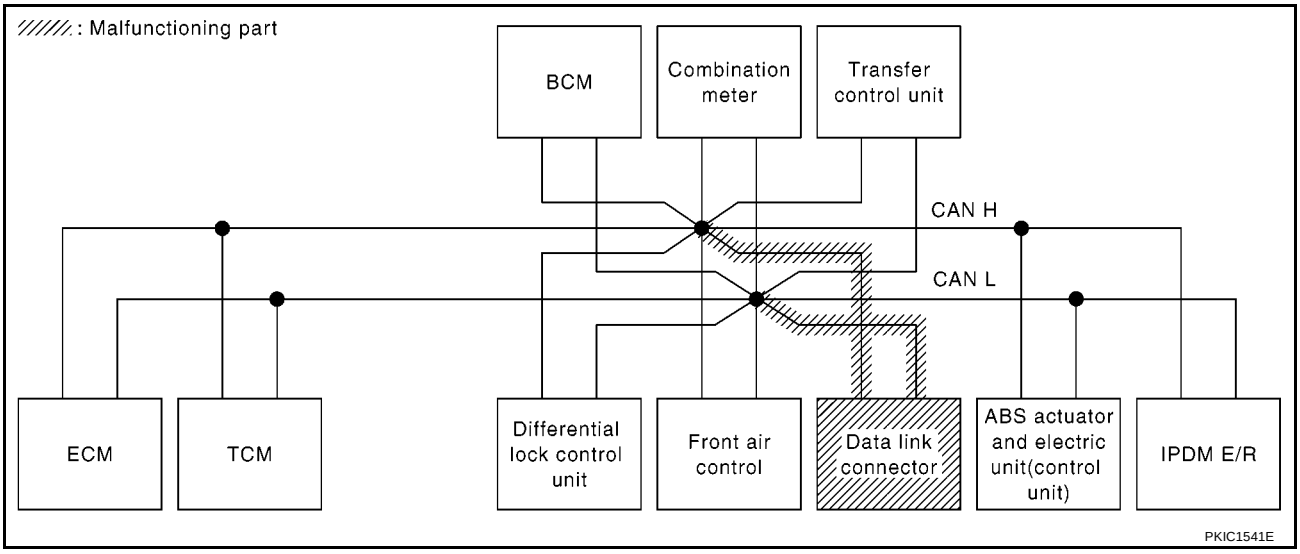
PKIC1540E

Case 7

Check data link connector circuit. Refer to LAN-300, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1934E



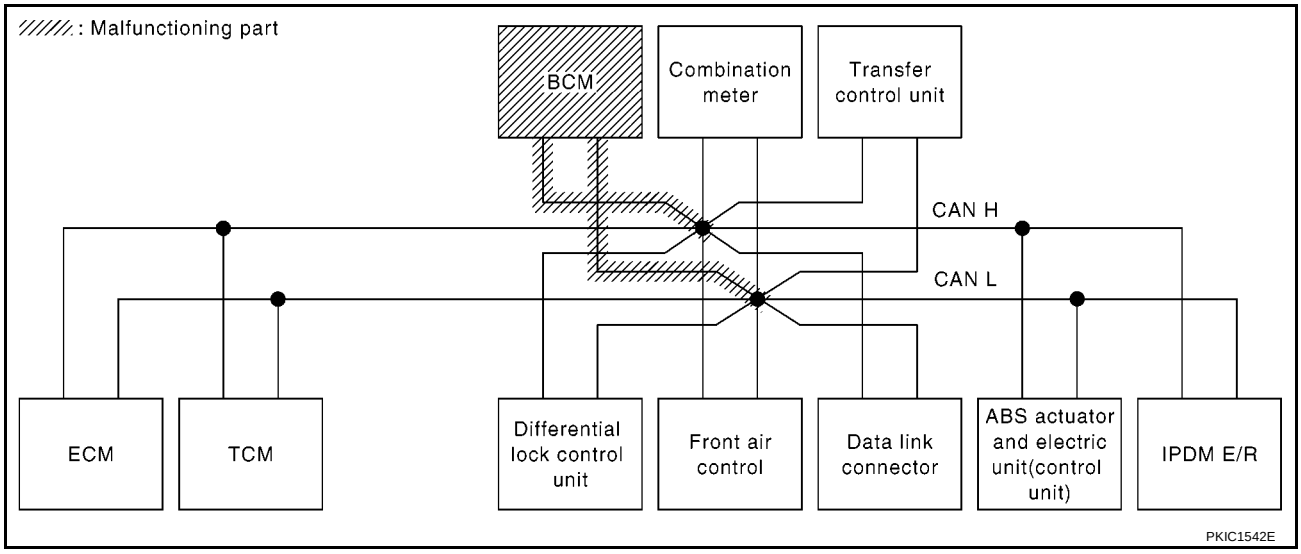
PKIC1541E

Case 8

Check BCM circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1935E



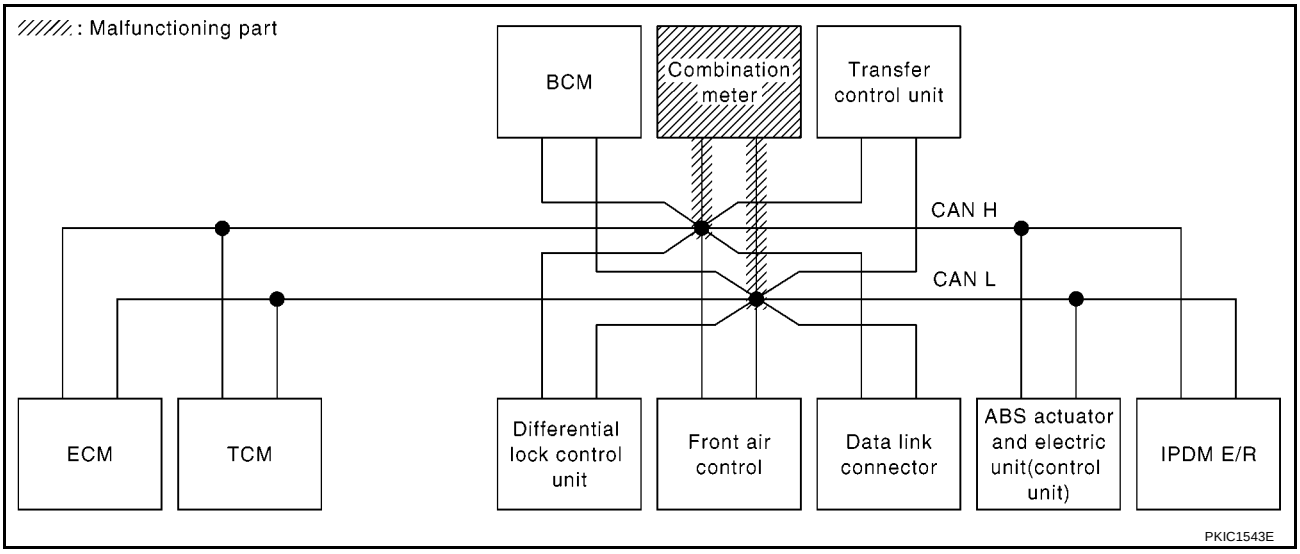
PKIC1542E

Case 9

Check combination meter circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1936E



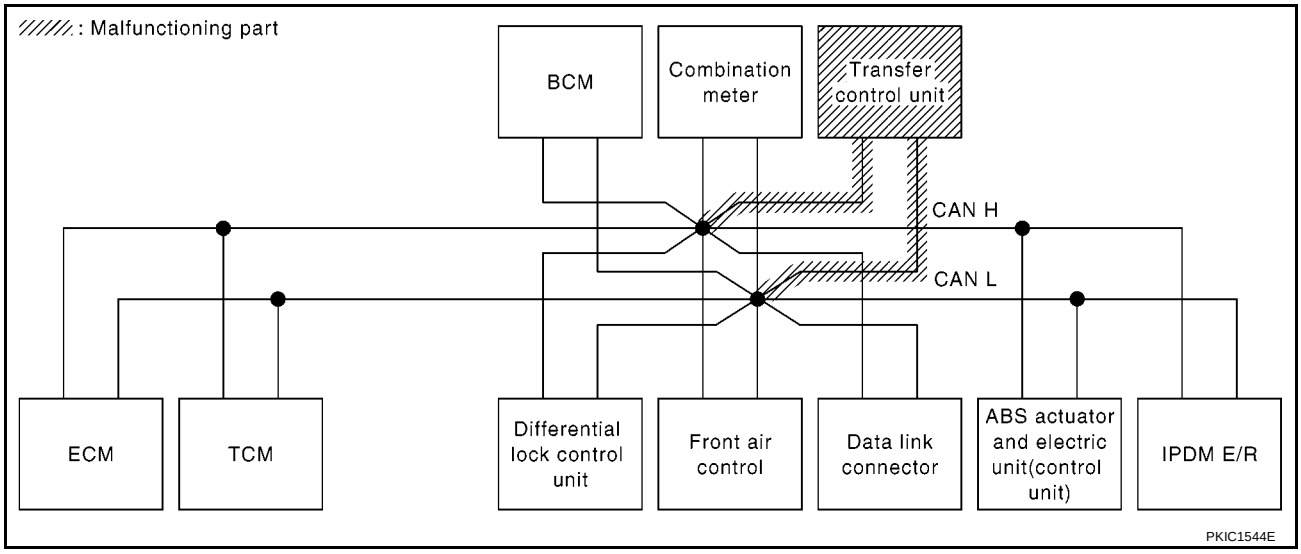
PKIC1543E

Case 10

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN ✓	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1937E



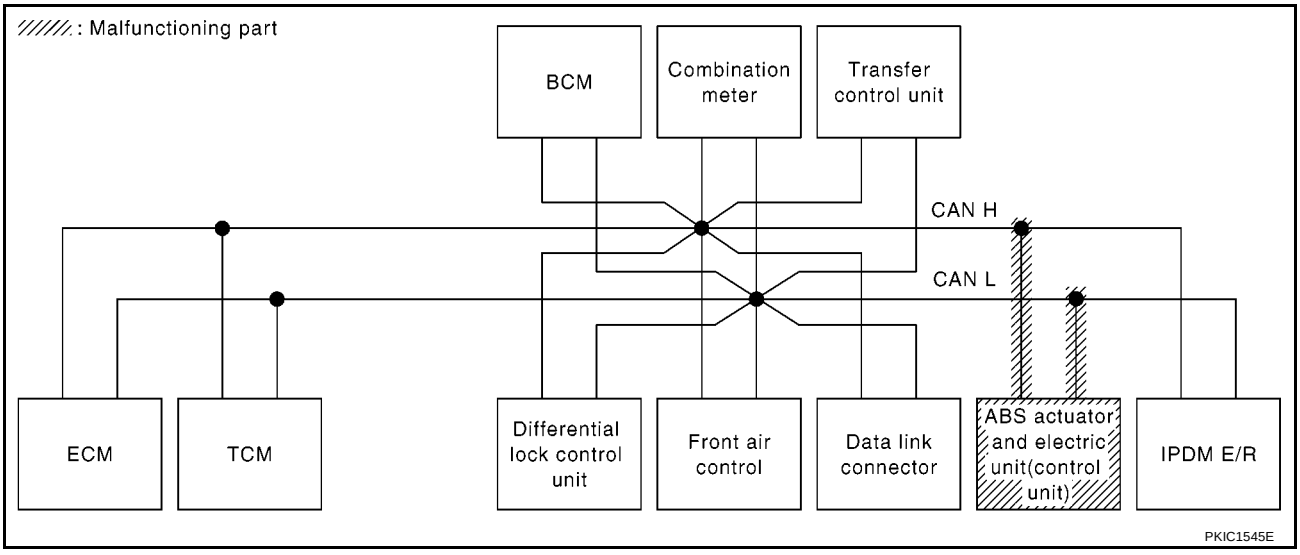
PKIC1544E

Case 11

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1938E



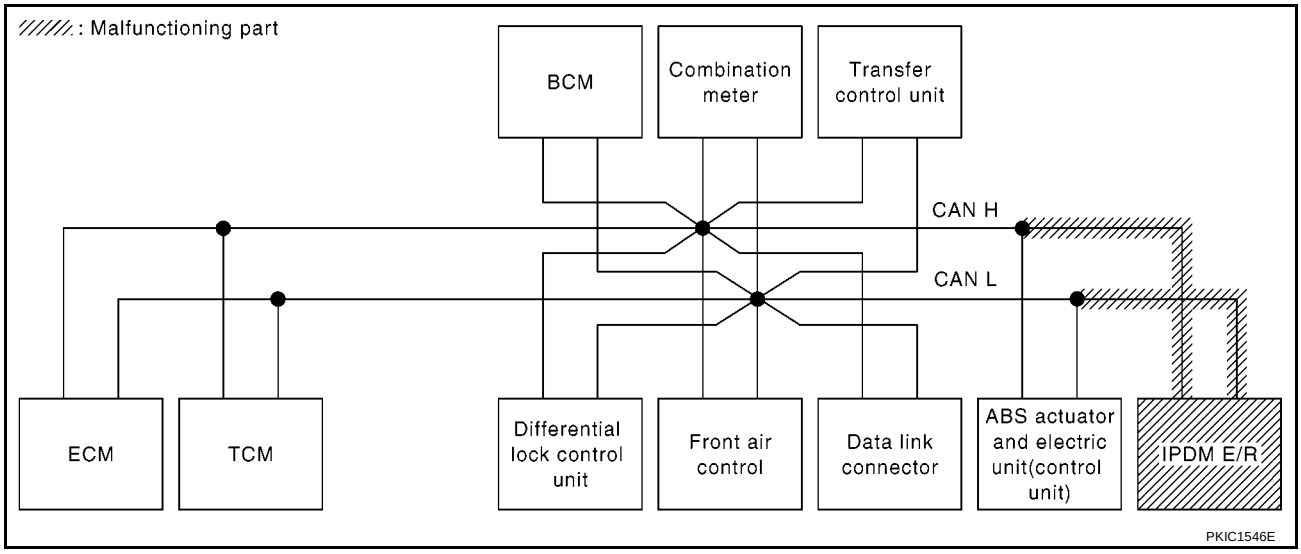
PKIC1545E

Case 12

Check IPDM E/R circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1939E



PKIC1546E

Case 13

Check CAN communication circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1940E

Case 14

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1941E

Case 15

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	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)

PKIC1942E

CAN SYSTEM (TYPE 14)

PFP:23710

Component Parts and Harness Connector Location

EKS00QB1

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00QB2

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00QB3

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00O6O

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

Check sheet table

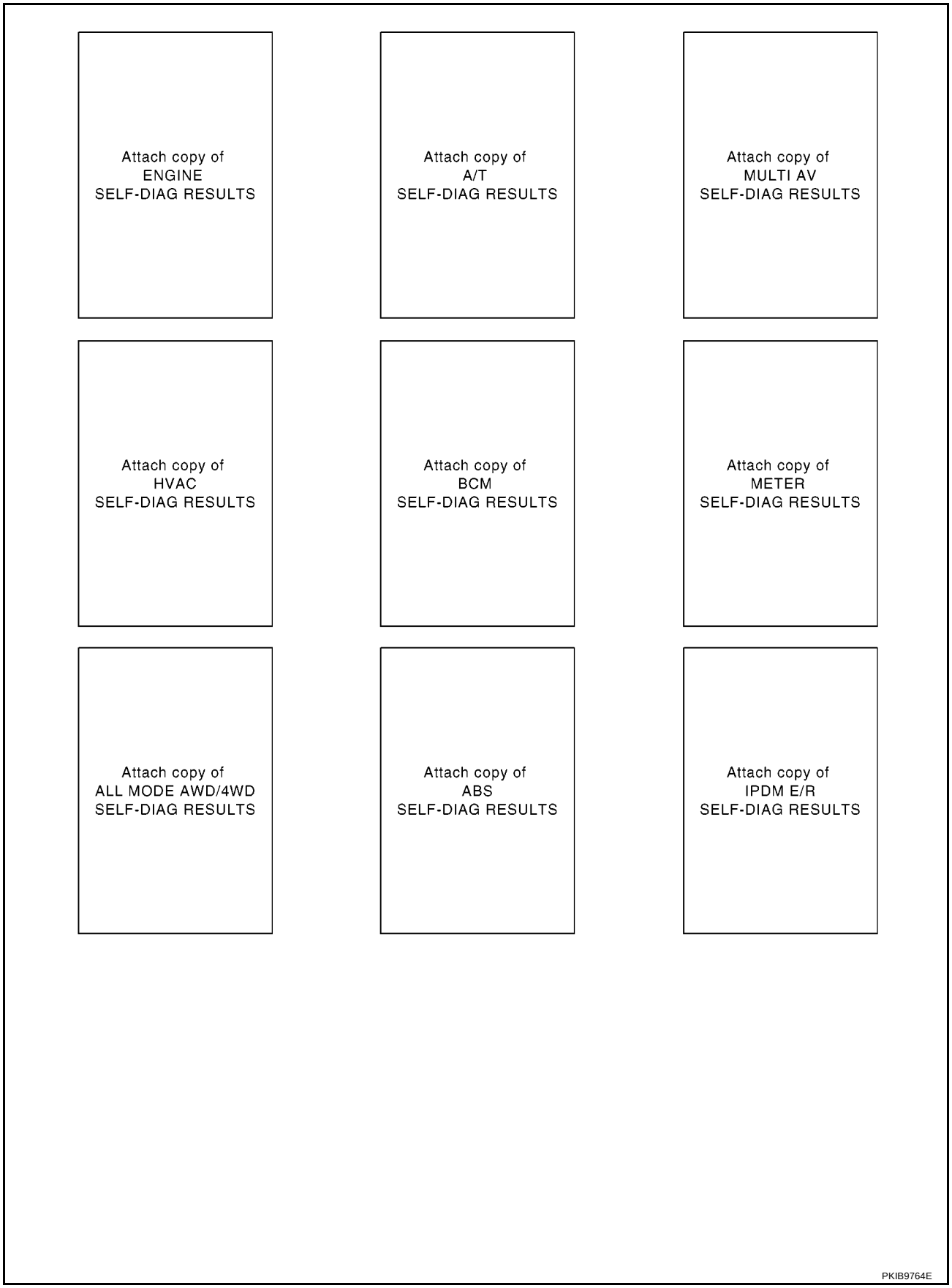
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

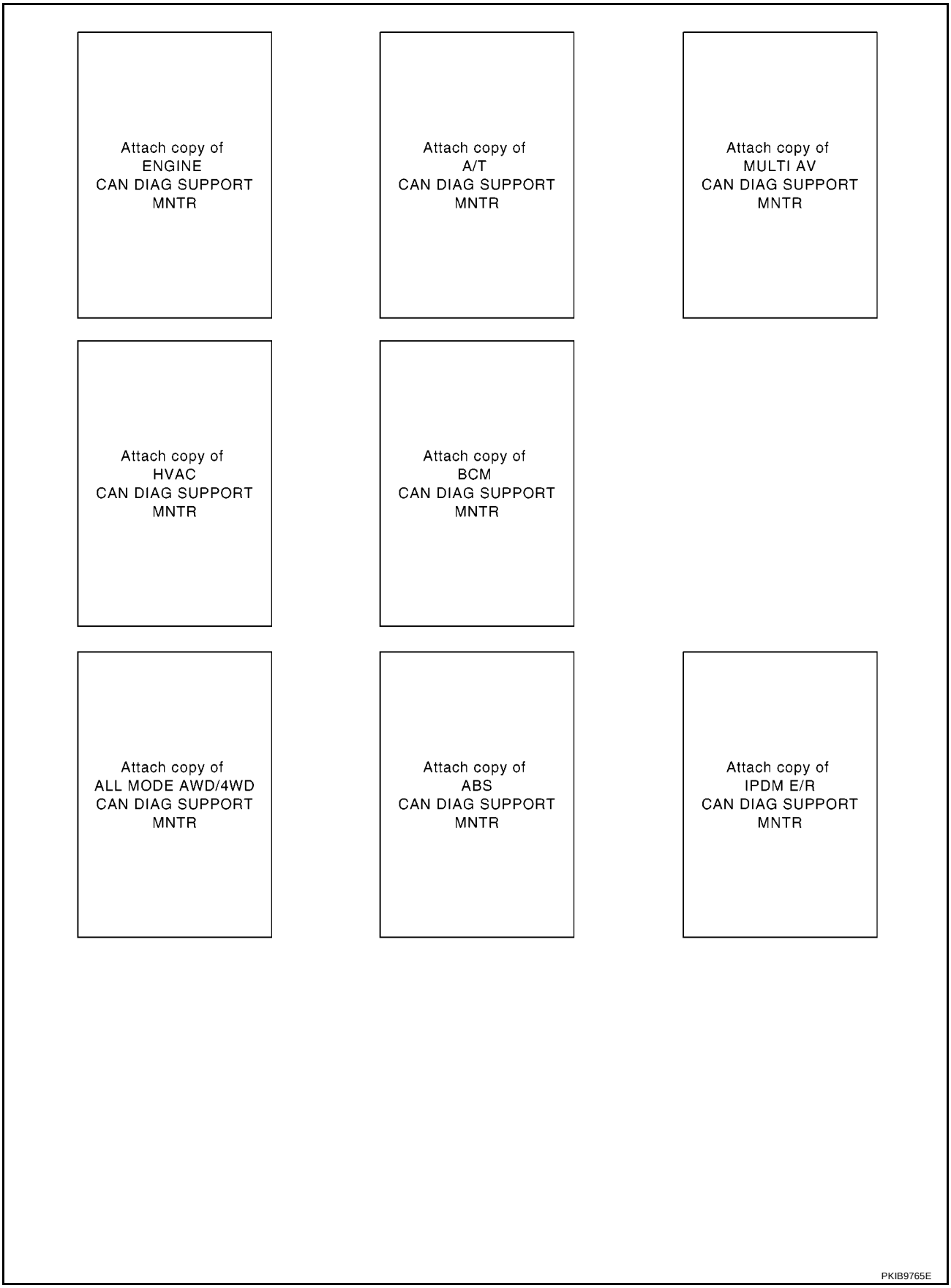
Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIC1428E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
MULTI AV
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS
Attach copy of
ABS
SELF-DIAG RESULTS
Attach copy of
IPDM E/R
SELF-DIAG RESULTS
PKIB9764E


Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
CAN DIAG SUPPORT
MNTR
Attach copy of
MULTI AV
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB9765E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

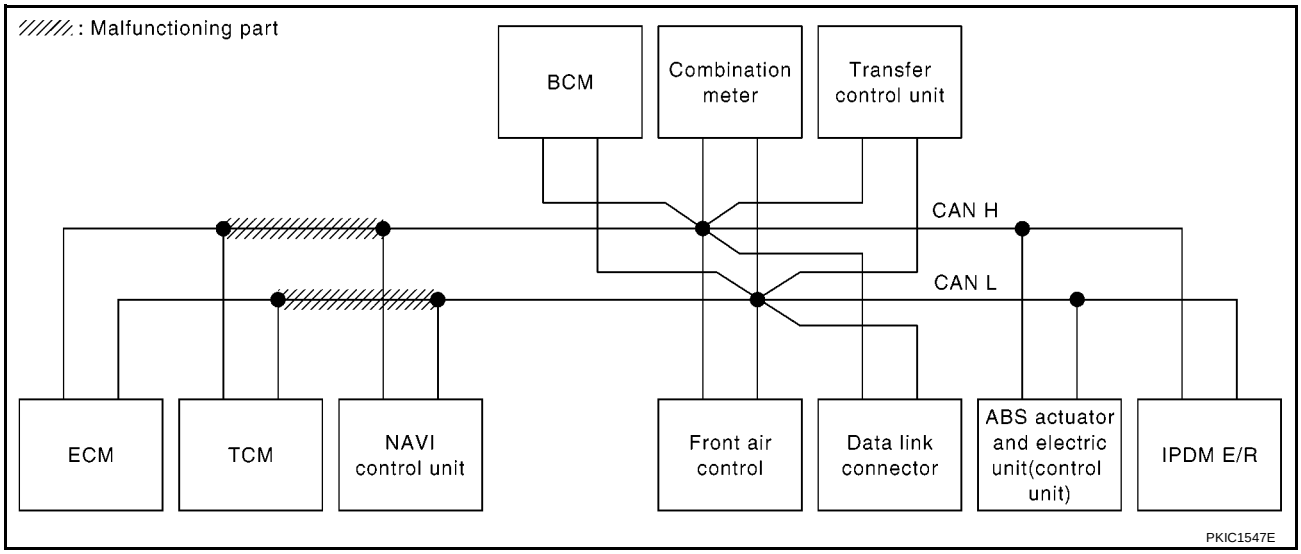
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and NAVI control unit circuit. Refer to LAN-293, "Inspection Between TCM and NAVI 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000) ✓
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN ✓	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1943E

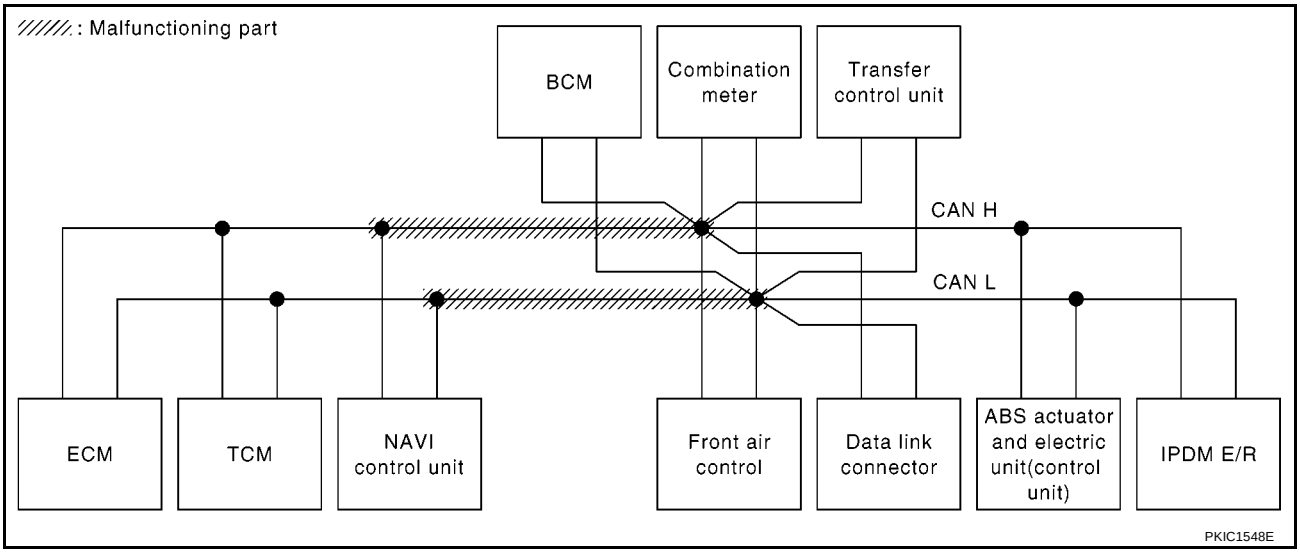


Case 2

Check harness between NAVI control unit and data link connector circuit. Refer to LAN-295, "Inspection Between NAVI Control Unit 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN ✓	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1944E



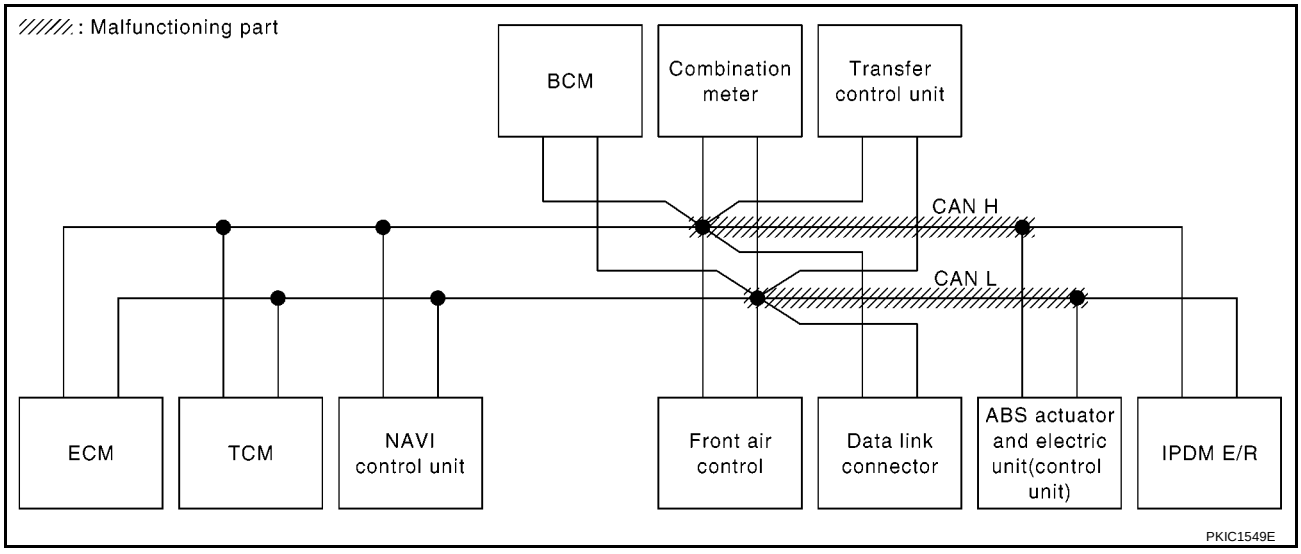
PKIC1548E

Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1945E



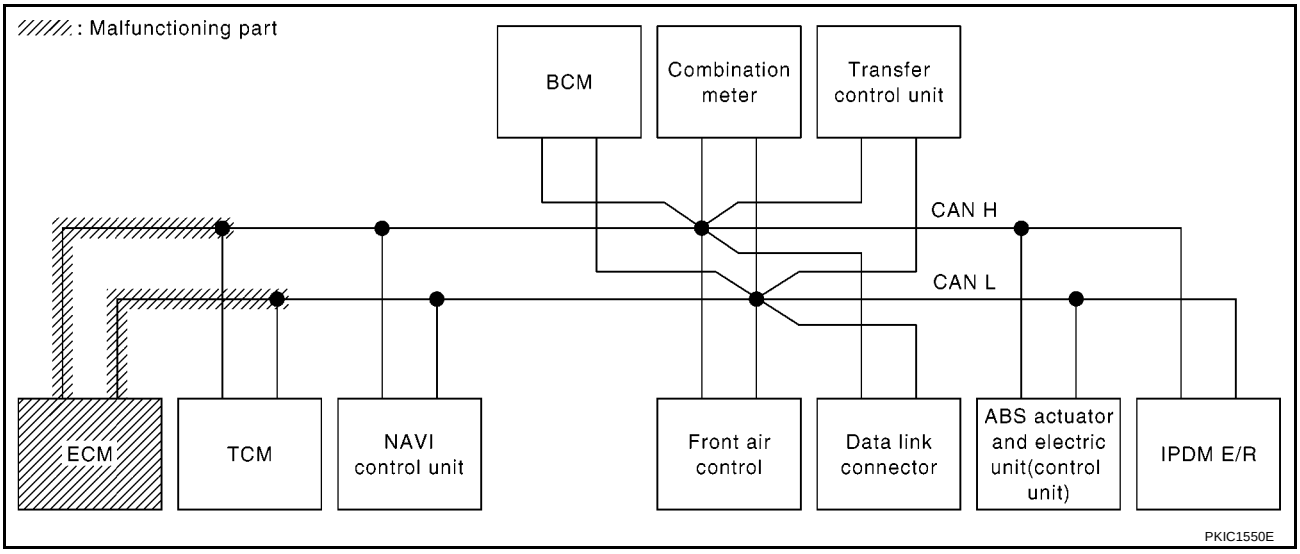
PKIC1549E

Case 4

Check ECM circuit. Refer to LAN-298, "ECM Circuit Inspection for A/T Models" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1946E



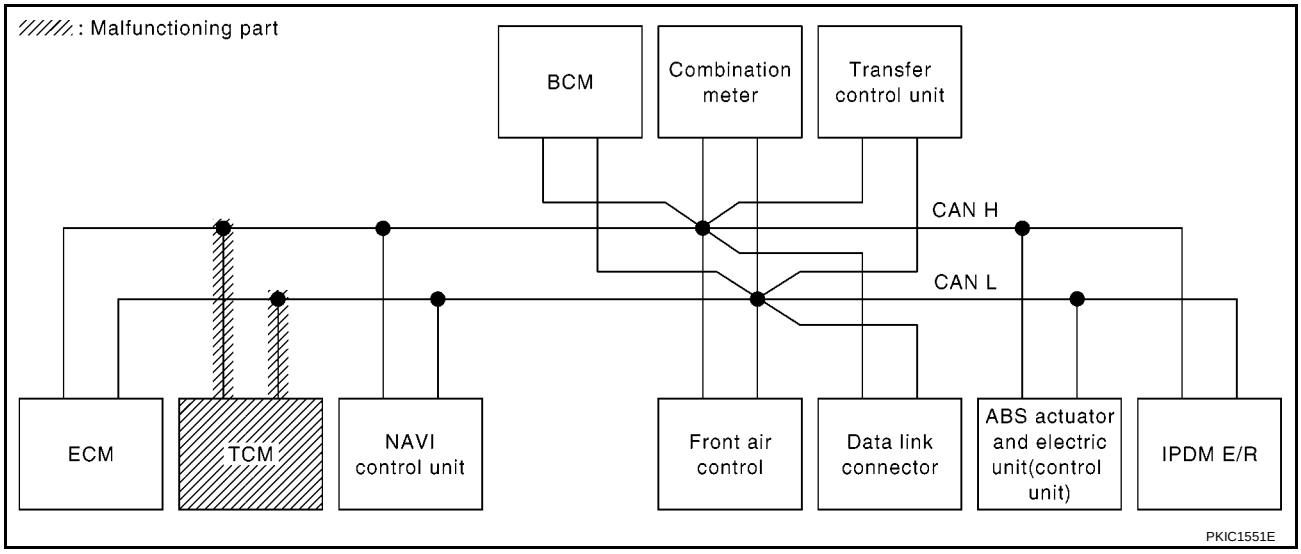
PKIC1550E

Case 5

Check TCM circuit. Refer to LAN-298, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1947E



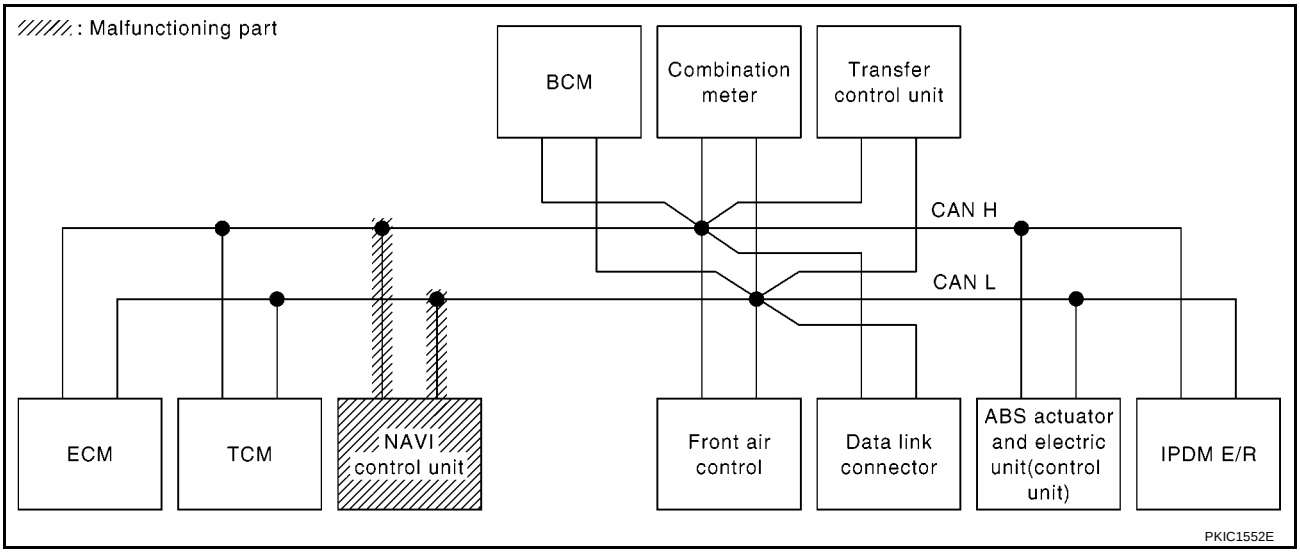
PKIC1551E

Case 6

Check NAVI control unit circuit. Refer to LAN-299, "NAVI 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1948E



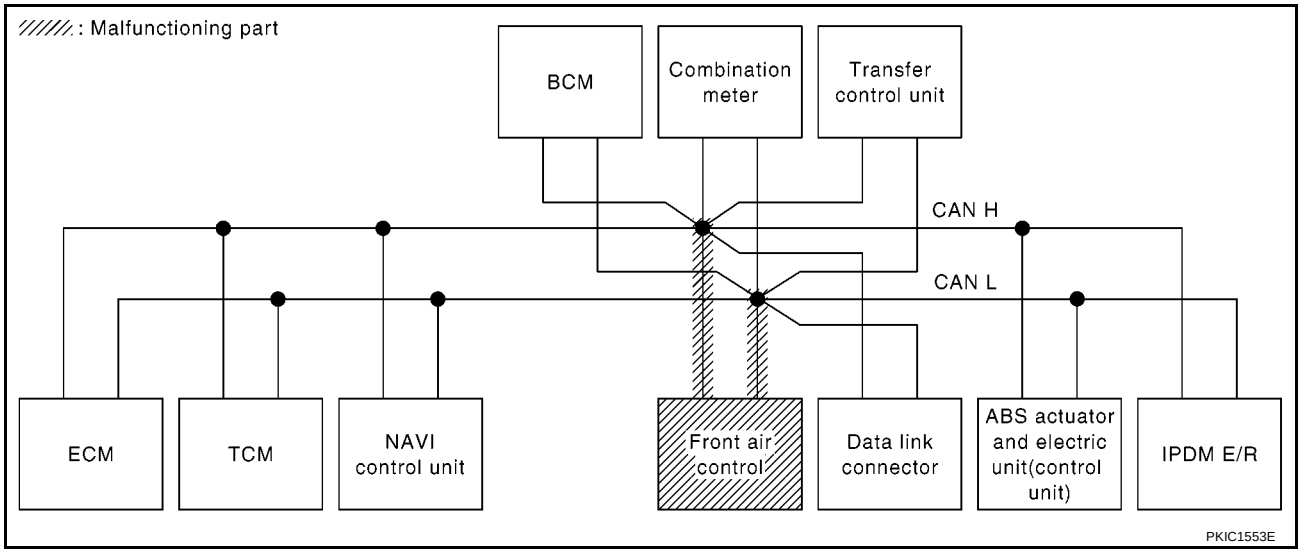
PKIC1552E

Case 7

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1949E

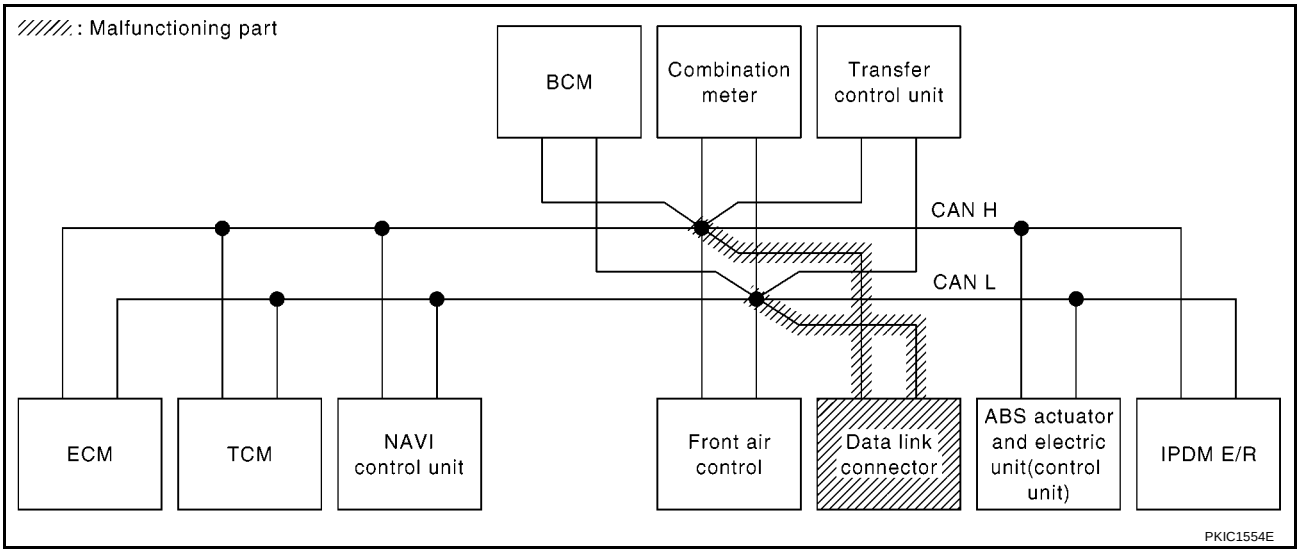


Case 8

Check data link connector circuit. Refer to LAN-300, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1950E



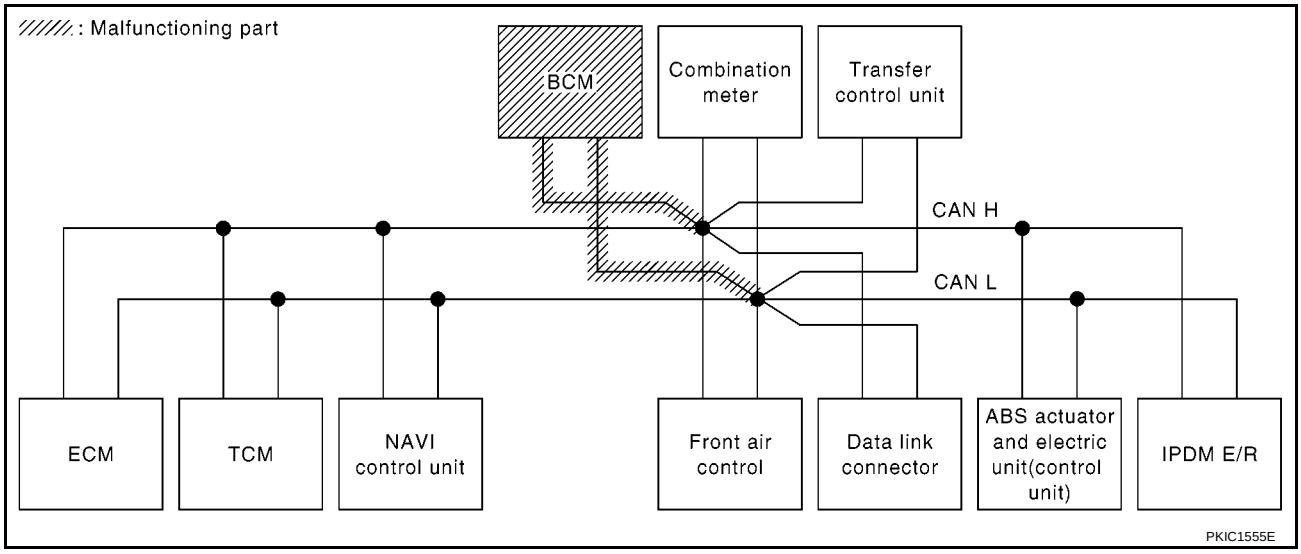
PKIC1554E

Case 9

Check BCM circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1951E



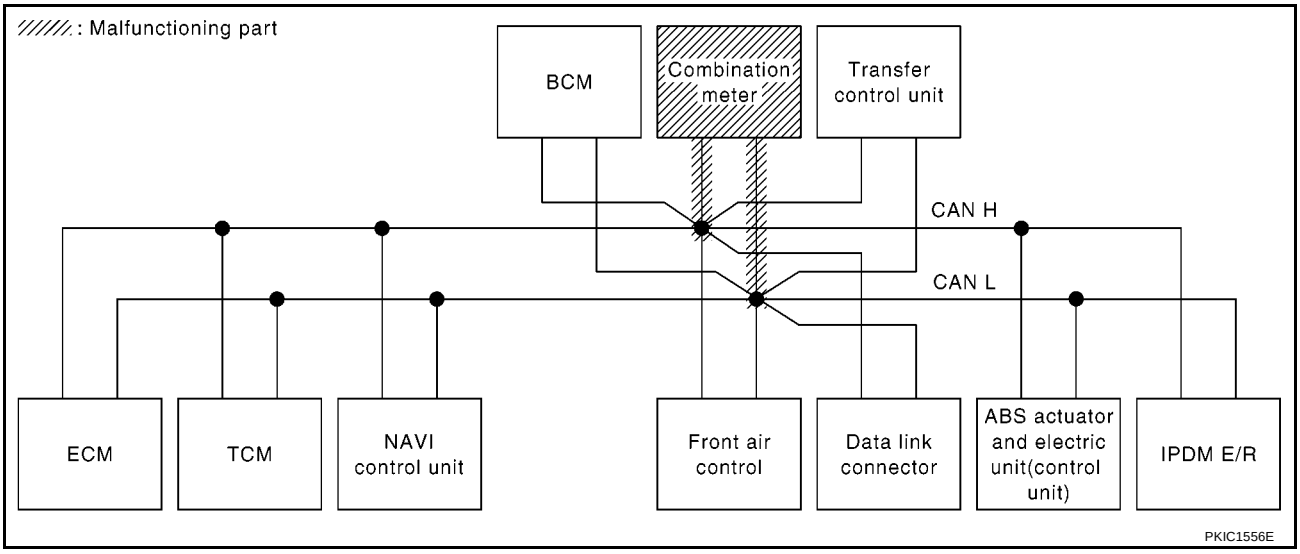
PKIC1555E

Case 10

Check combination meter circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1952E



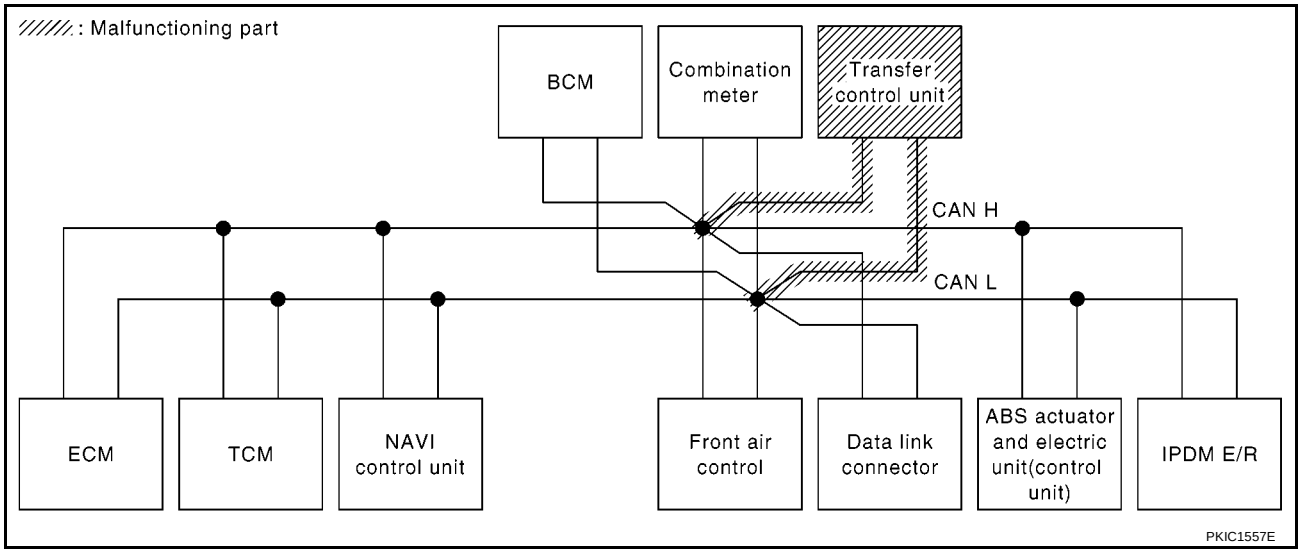
PKIC1556E

Case 11

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1953E



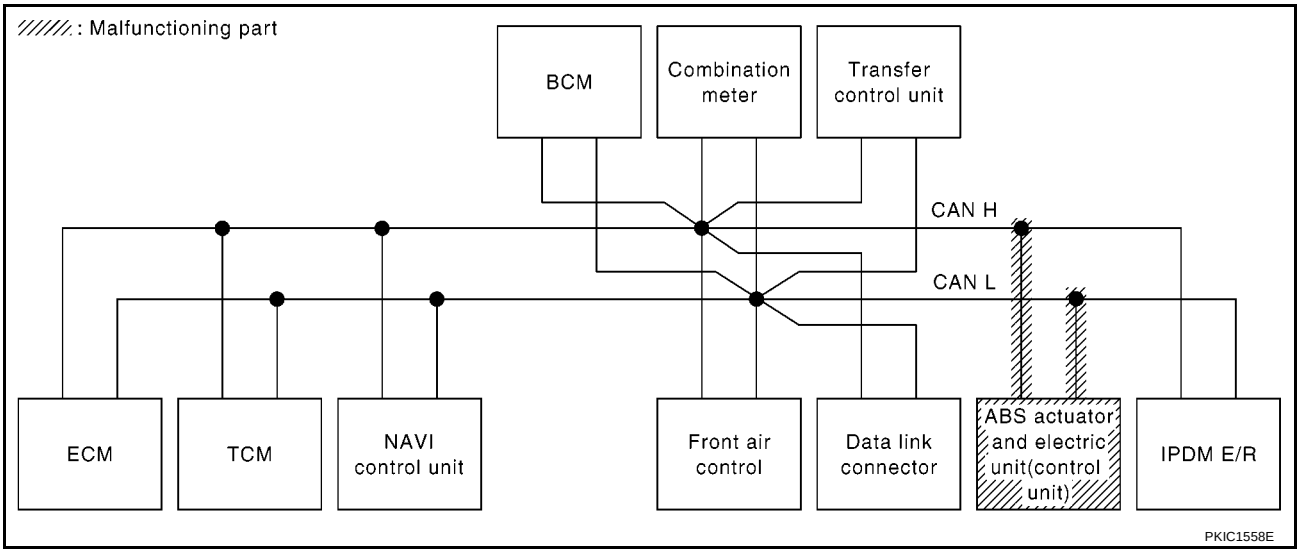
PKIC1557E

Case 12

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1954E



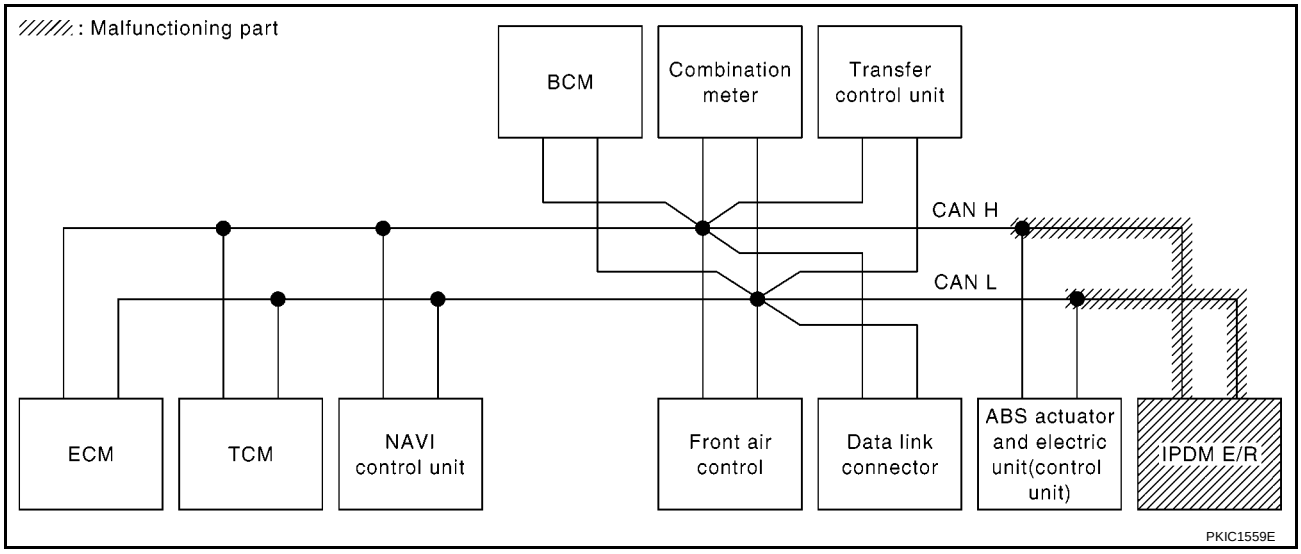
PKIC1558E

Case 13

Check IPDM E/R circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1955E



PKIC1559E

Case 14

Check CAN communication circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication ✓	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1956E

Case 15

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1957E

Case 16

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	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)

PKIC1958E

CAN SYSTEM (TYPE 15)

PFP:23710

Component Parts and Harness Connector Location

EKS00QB4

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00QB5

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00QB6

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00OH3

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

Check sheet table

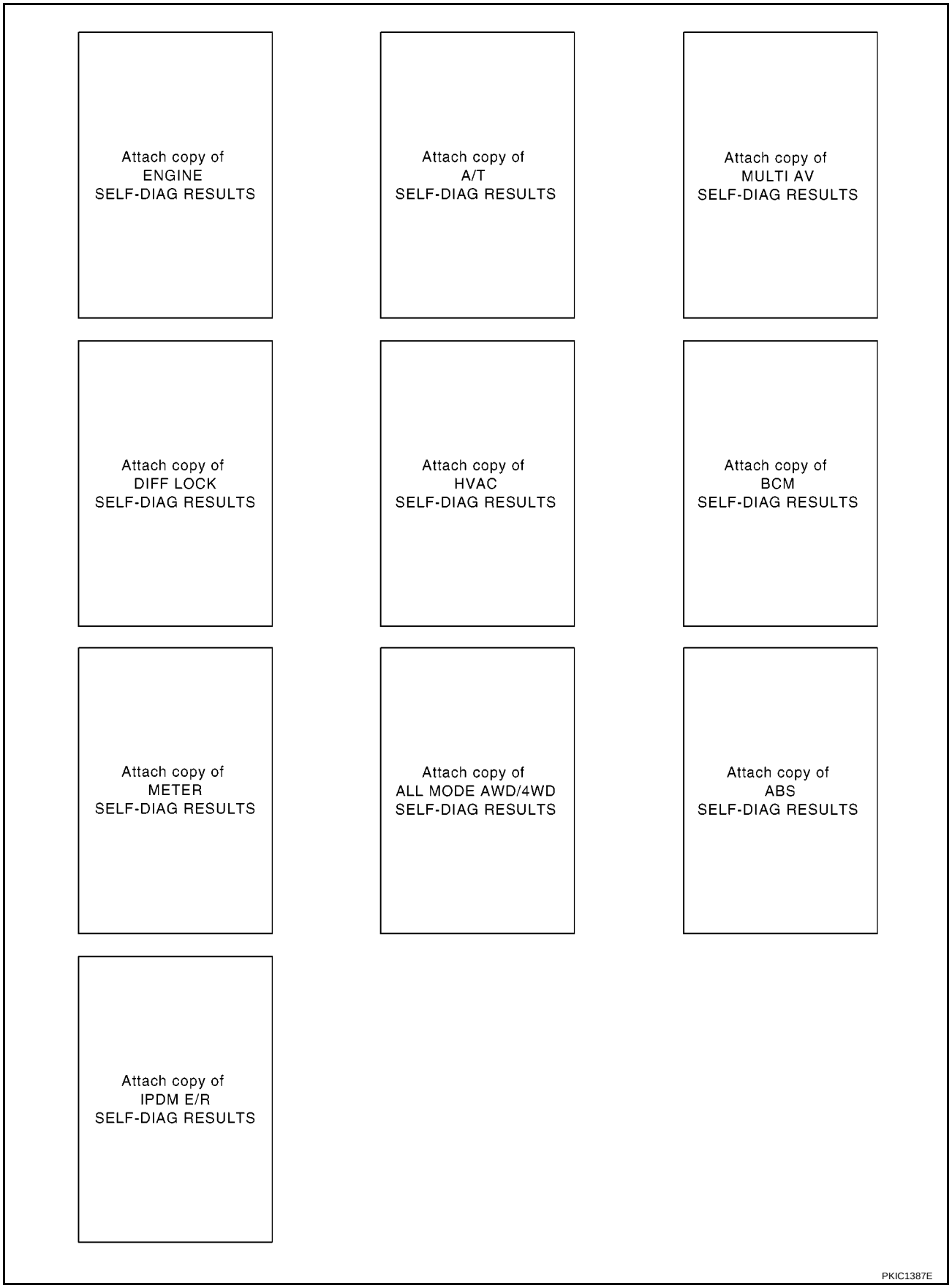
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

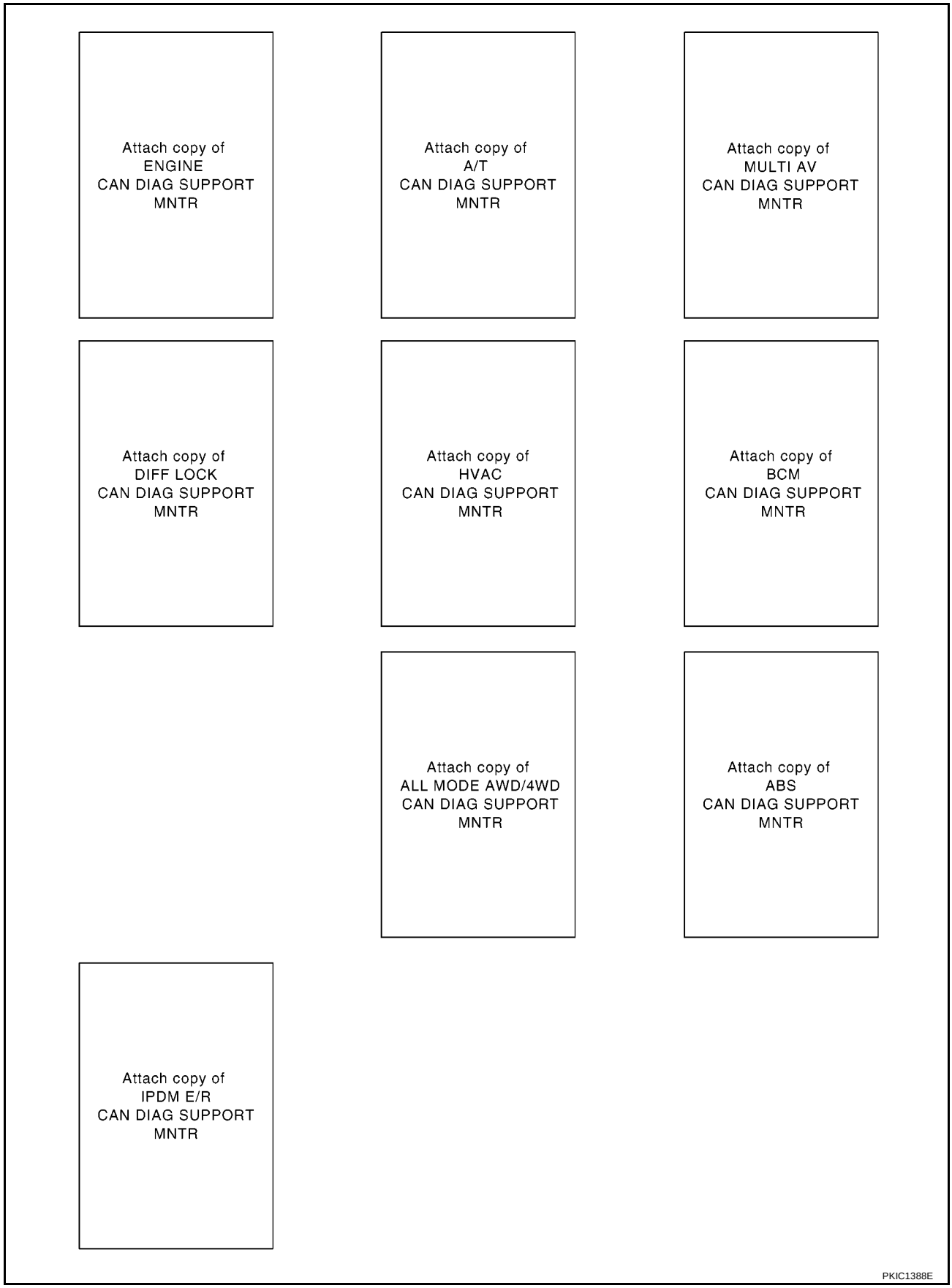
Symptoms :

Attach copy of SELECT SYSTEM

Attach copy of SELECT SYSTEM

PKIC1386E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
A/T
SELF-DIAG RESULTS
Attach copy of
MULTI AV
SELF-DIAG RESULTS
Attach copy of
DIFF LOCK
SELF-DIAG RESULTS
Attach copy of
HVAC
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
SELF-DIAG RESULTS
Attach copy of
ABS
SELF-DIAG RESULTS
Attach copy of
IPDM E/R
SELF-DIAG RESULTS
PKIC1387E


Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR
Attach copy of
A/T
CAN DIAG SUPPORT
MNTR
Attach copy of
MULTI AV
CAN DIAG SUPPORT
MNTR
Attach copy of
DIFF LOCK
CAN DIAG SUPPORT
MNTR
Attach copy of
HVAC
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIC1388E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

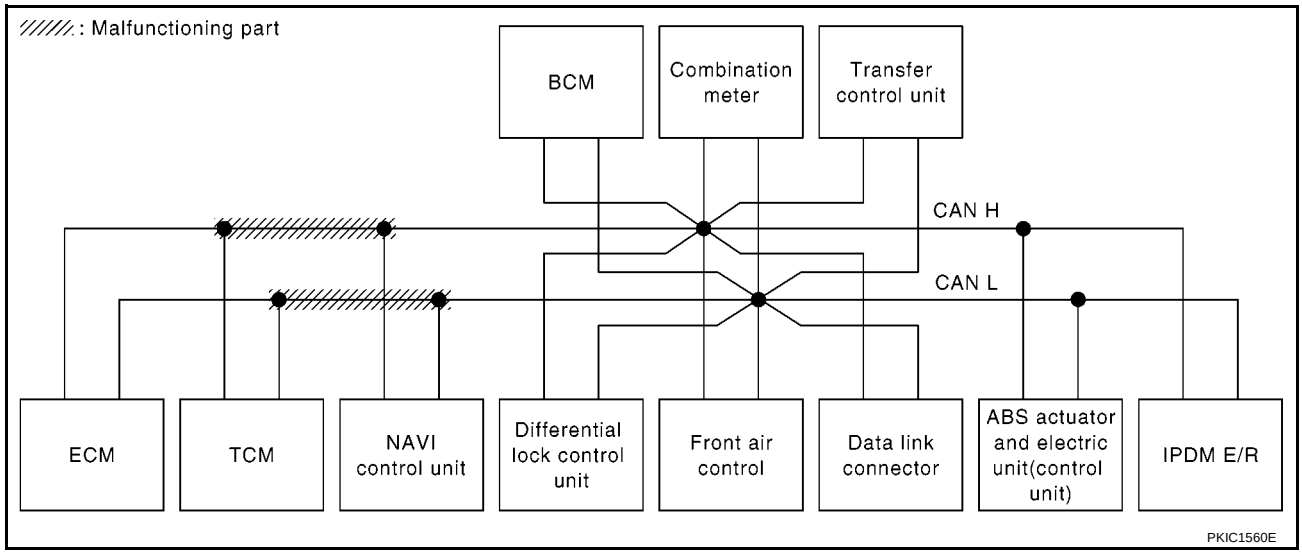
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between TCM and NAVI control unit circuit. Refer to LAN-293, "Inspection Between TCM and NAVI 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN	UNKWN ✓	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN ✓	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1600E



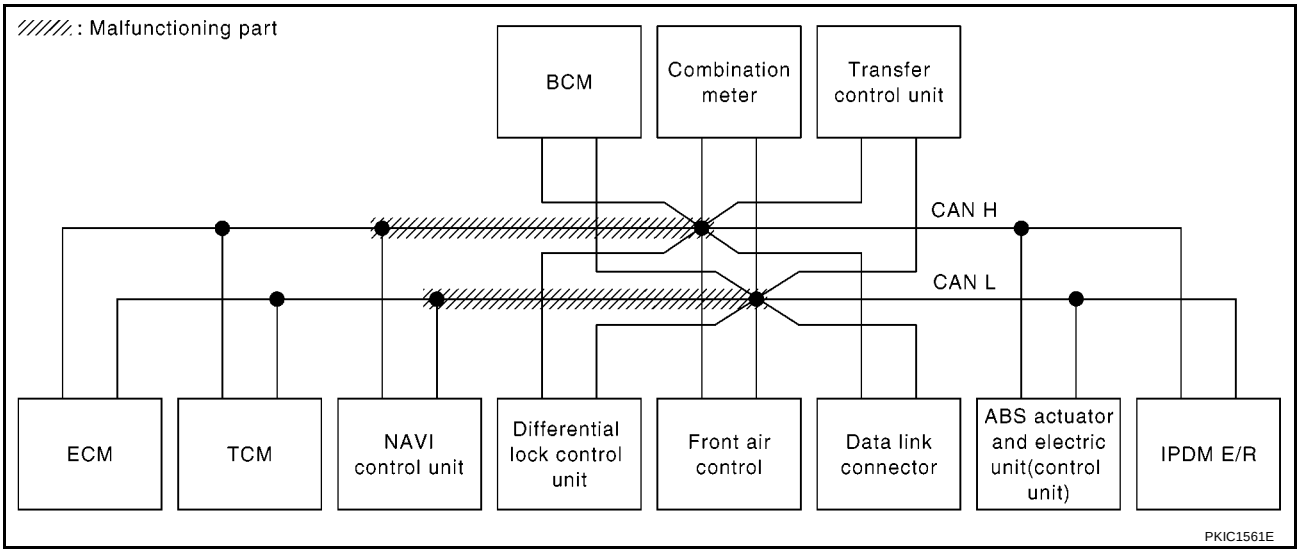
PKIC1560E

Case 2

Check harness between NAVI control unit and data link connector circuit. Refer to LAN-295, "Inspection Between NAVI Control Unit 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication ✓	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN	UNKWN ✓	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN ✓	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN ✓	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN ✓	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1601E



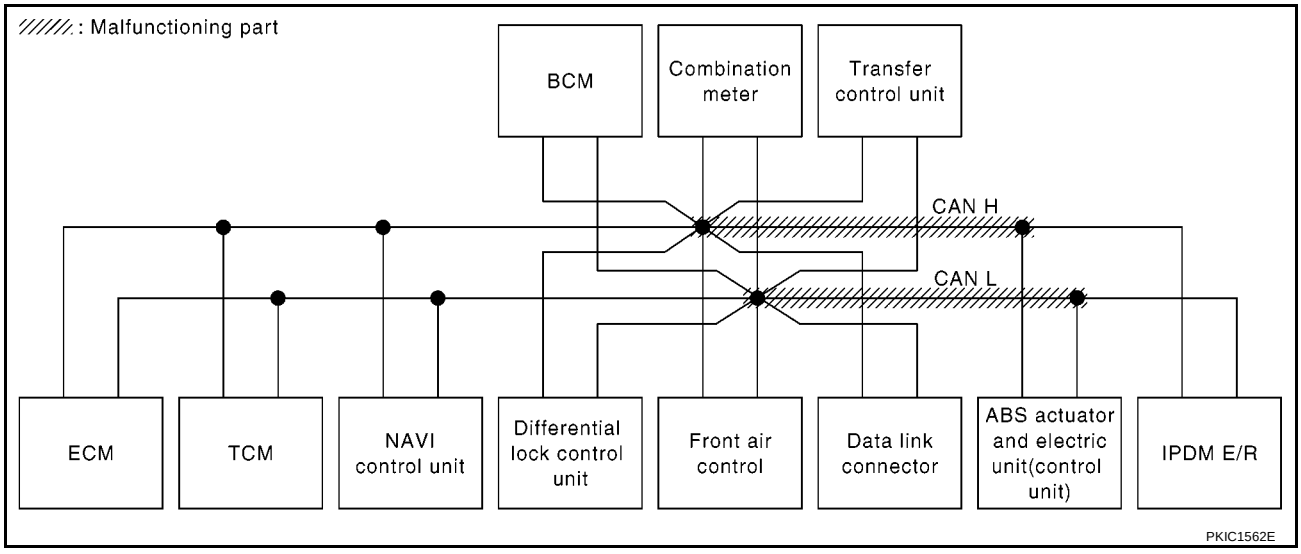
PKIC1561E

Case 3

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1602E



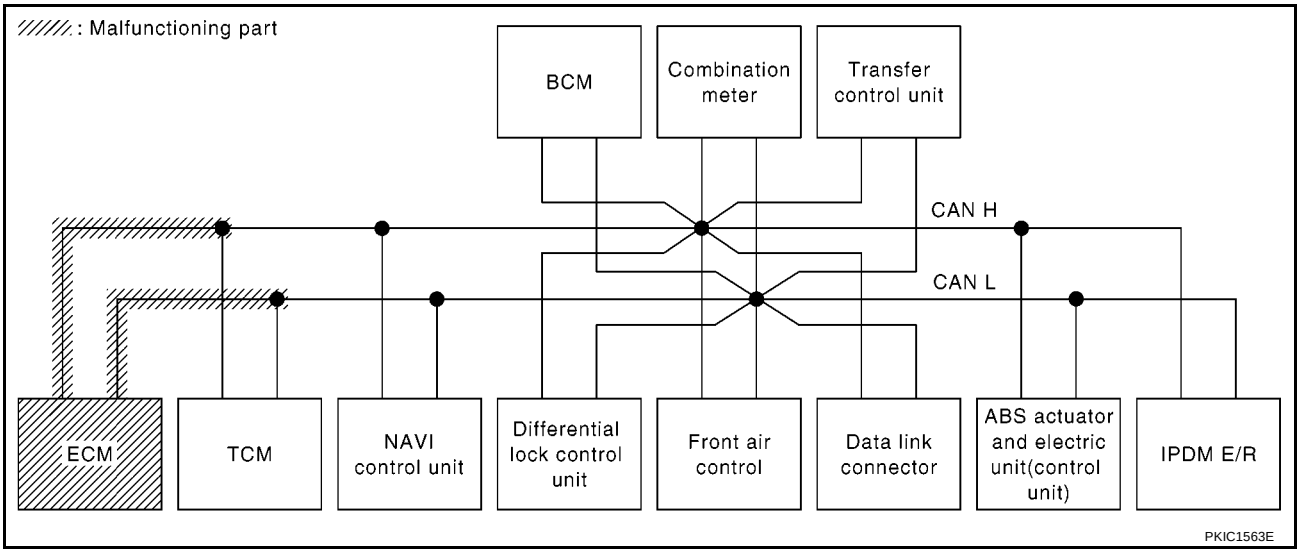
PKIC1562E

Case 4

Check ECM circuit. Refer to LAN-298, "ECM Circuit Inspection for A/T Models" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1603E



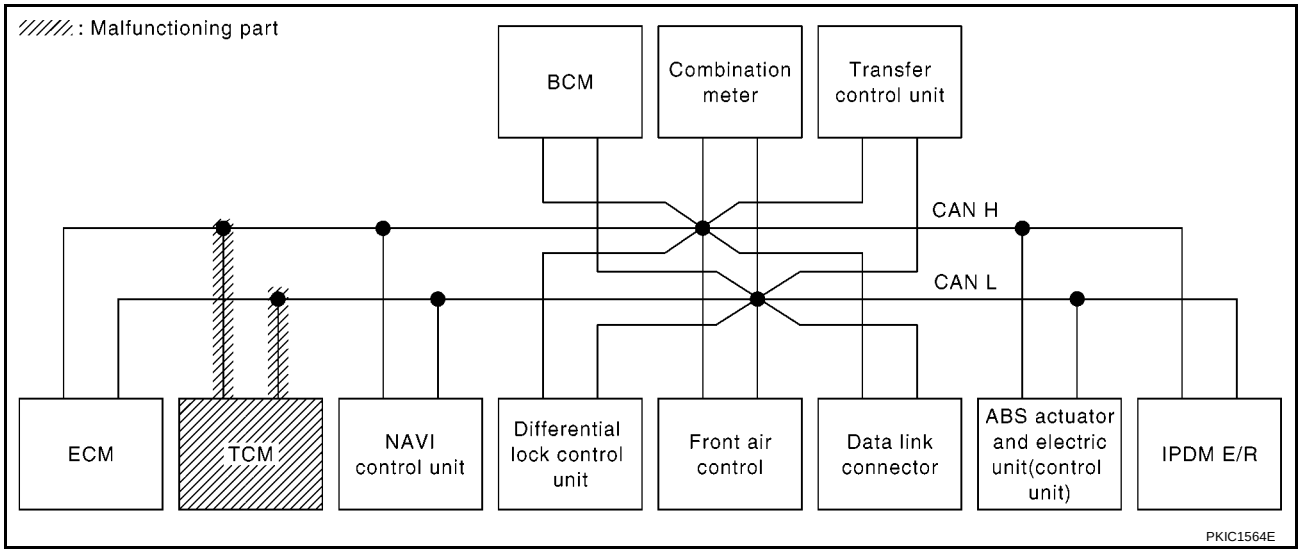
PKIC1563E

Case 5

Check TCM circuit. Refer to LAN-298, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1604E



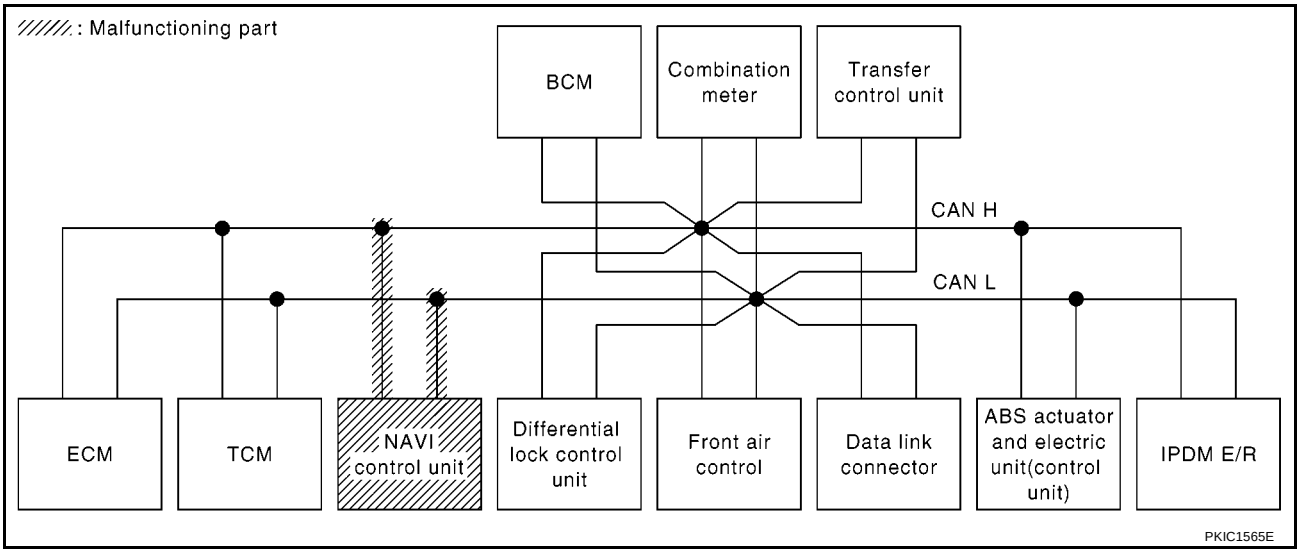
PKIC1564E

Case 6

Check NAVI control unit circuit. Refer to LAN-299, "NAVI 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1605E



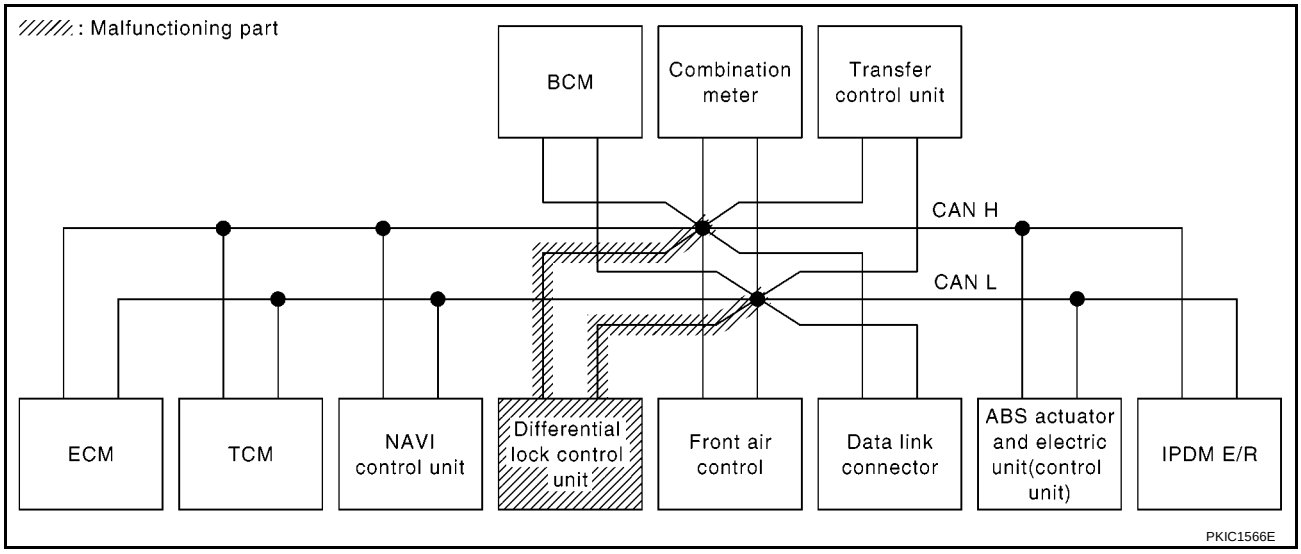
PKIC1565E

Case 7

Check differential lock control unit circuit. Refer to LAN-299, "Differential Lock 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN ✓	UNKWN ✓	—	—	—	UNKWN ✓	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1606E



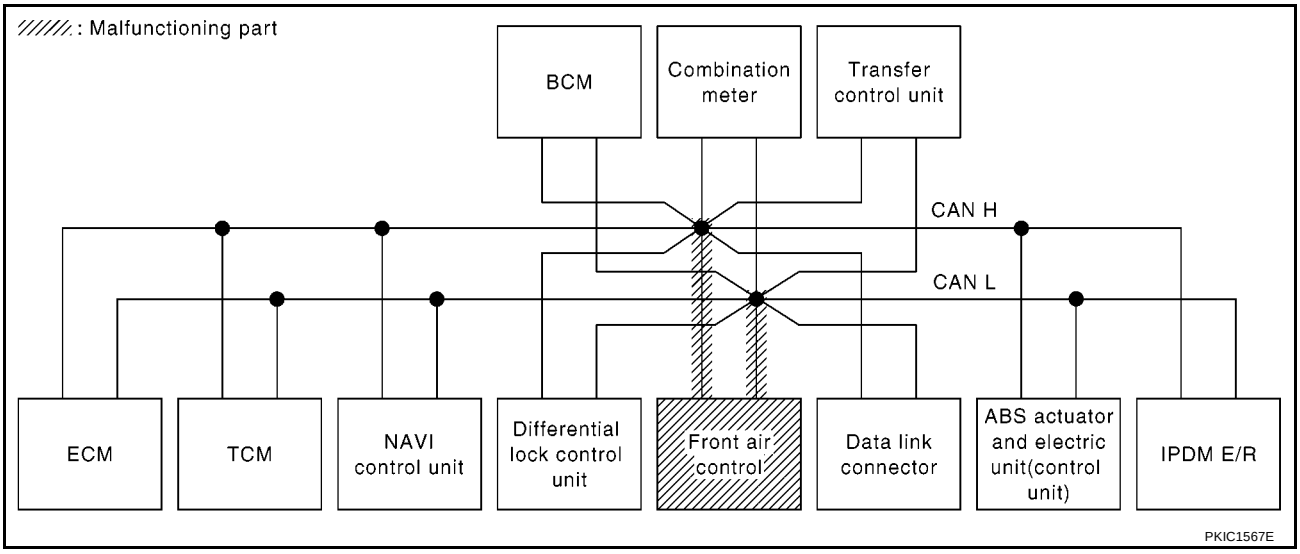
PKIC1566E

Case 8

Check front air control circuit. Refer to LAN-300, "Front Air Control 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1607E



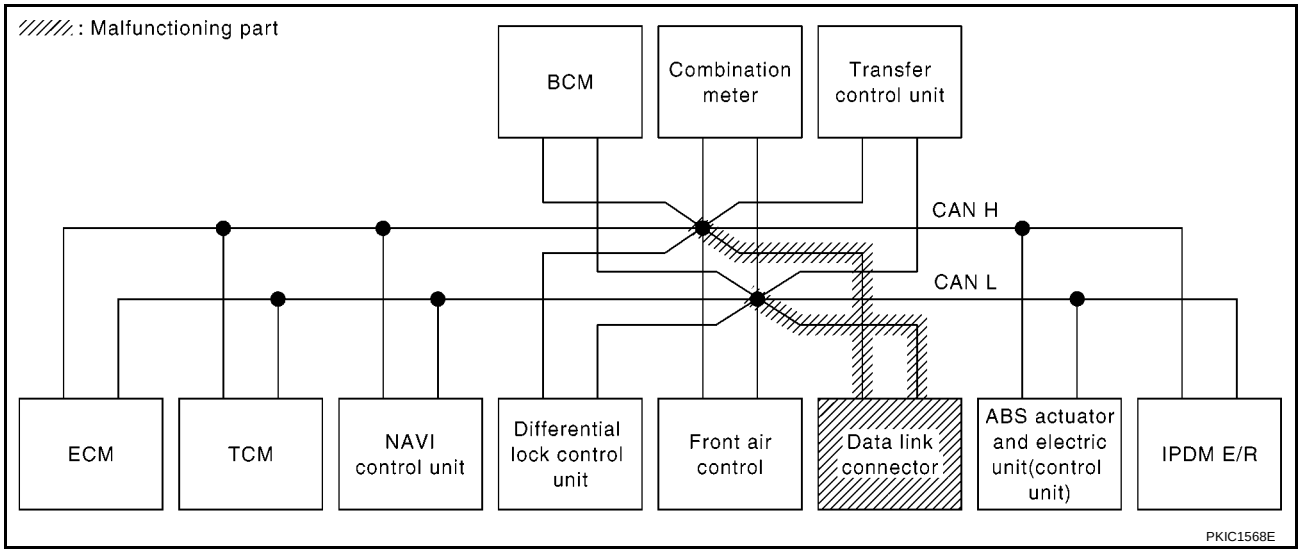
PKIC1567E

Case 9

Check data link connector circuit. Refer to LAN-300, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1608E

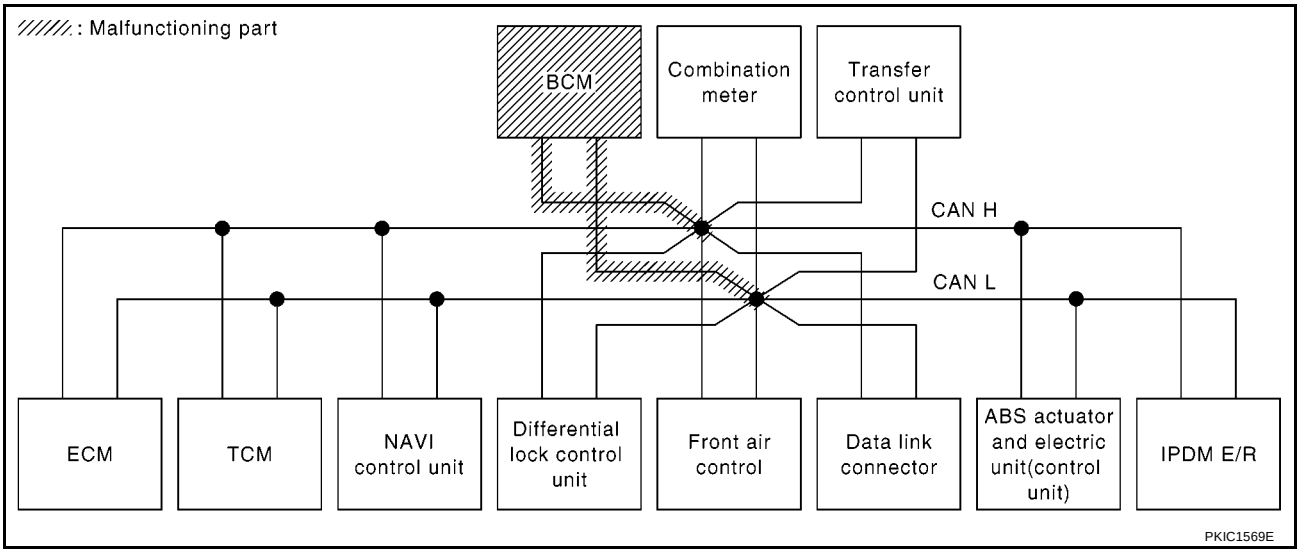


Case 10

Check BCM circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication ✓	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN ✓	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓

PKIC1609E



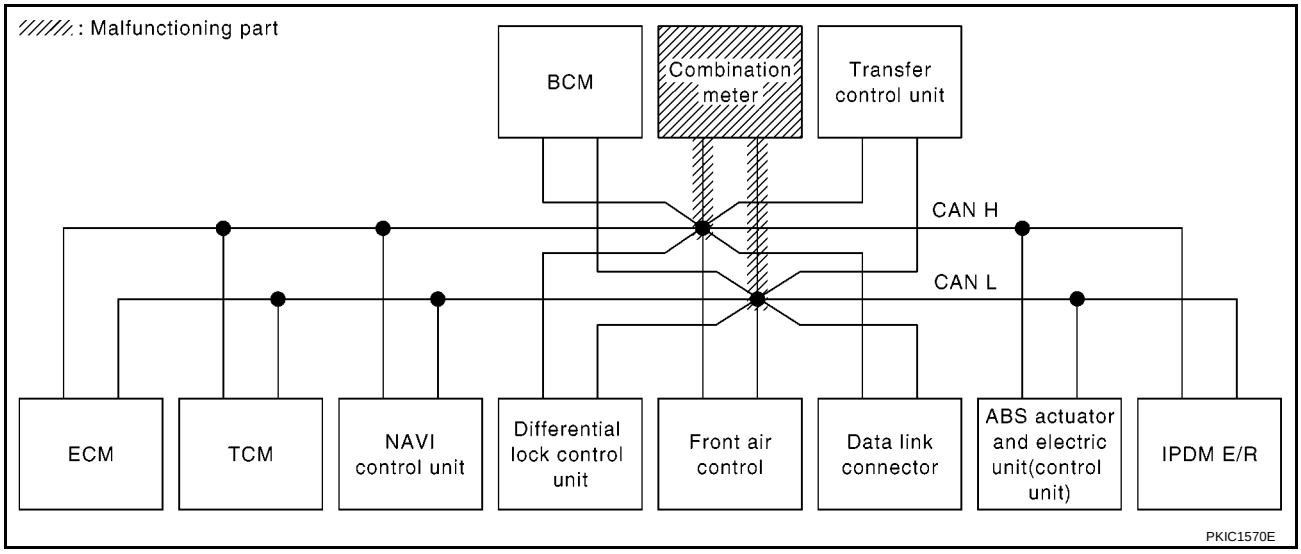
PKIC1569E

Case 11

Check combination meter circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1610E



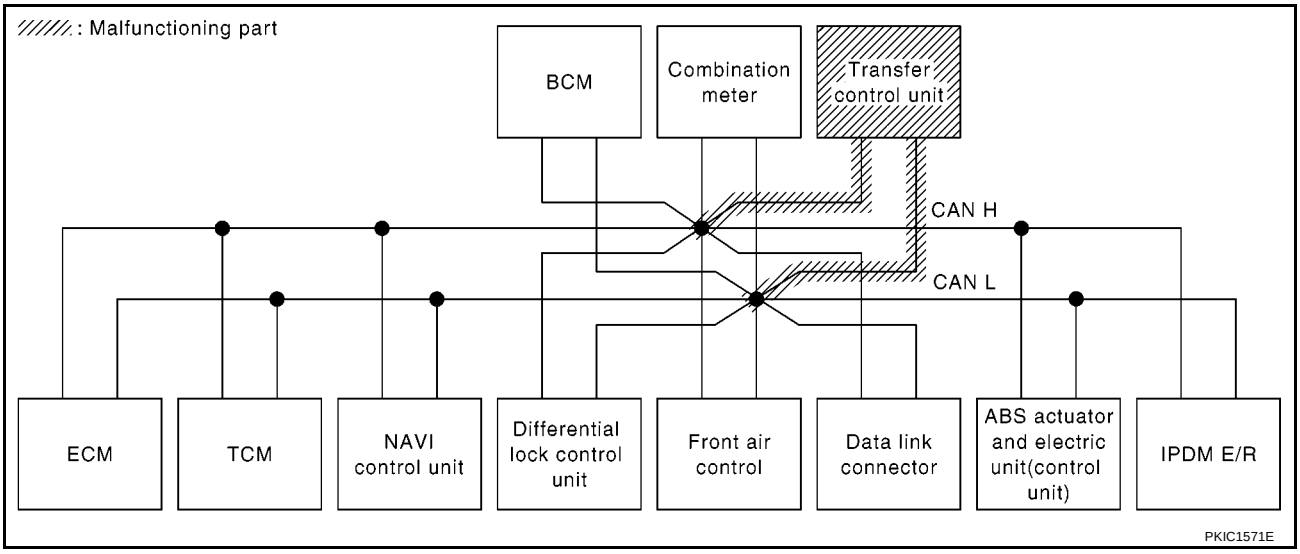
PKIC1570E

Case 12

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN ✓	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN ✓	UNKWN ✓	UNKWN ✓	—	UNKWN ✓	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1611E



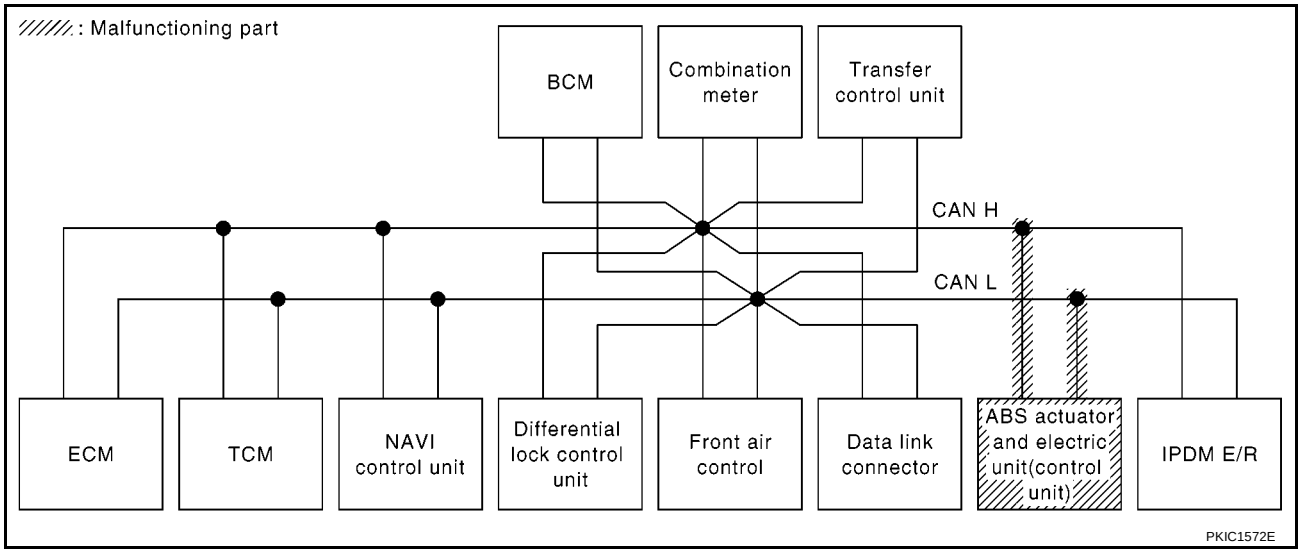
PKIC1571E

Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG ✓	UNKWN ✓	UNKWN ✓	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1612E

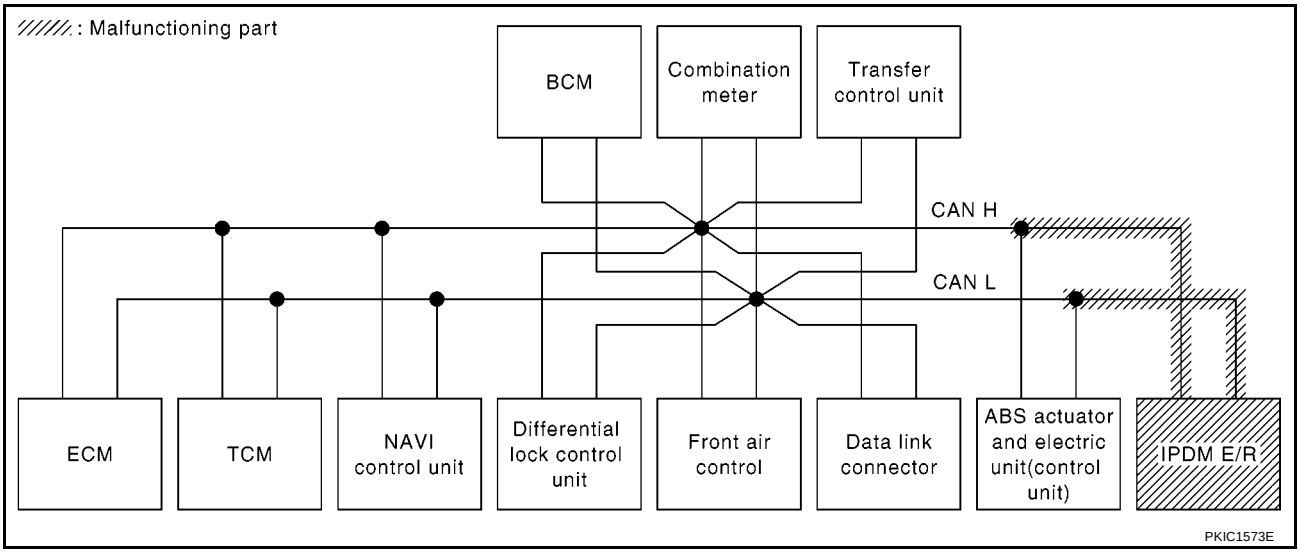


Case 14

Check IPDM E/R circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1613E



PKIC1573E

Case 15

Check CAN communication circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN	—	UNKWN	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1614E

Case 16

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN ✓	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000) ✓
A/T	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	UNKWN ✓	—	UNKWN	—	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
ABS	—	NG	UNKWN	UNKWN	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	—	—	CAN COMM CIRCUIT (U1000)

PKIC1615E

Case 17

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
A/T	—	NG	UNKWN	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
MULTI AV	No indication	—	UNKWN	UNKWN	—	—	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
HVAC	No indication	—	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	NG	UNKWN	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)

PKIC1616E

CAN SYSTEM (TYPE 16)

PFP:23710

Component Parts and Harness Connector Location

EKS00OEF

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OEG

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OEH

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00OEI

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

Check sheet table

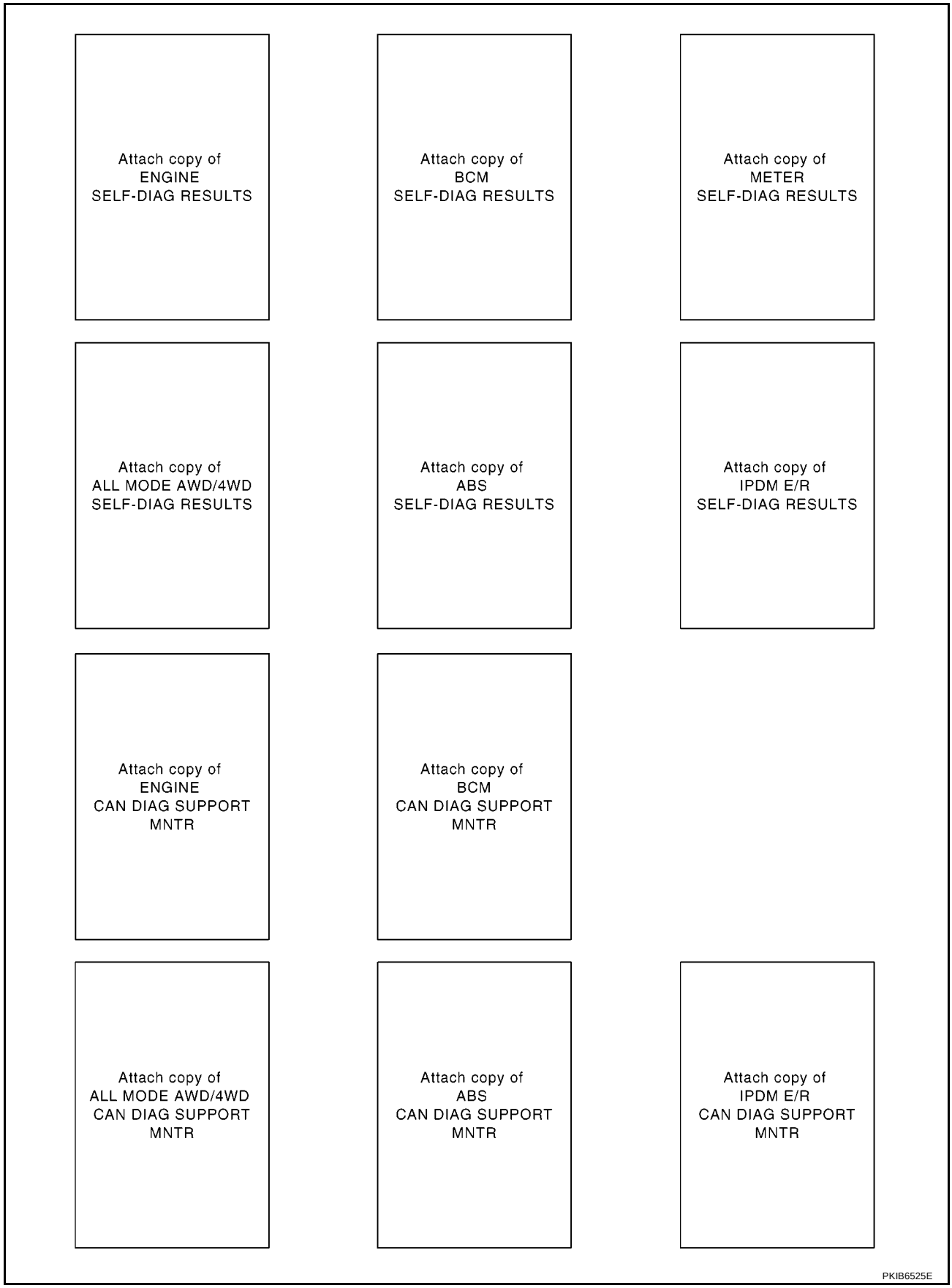
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	BCM/SEC	METER/M&A	VDC/TCS/ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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

PKIC1429E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
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
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB6525E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

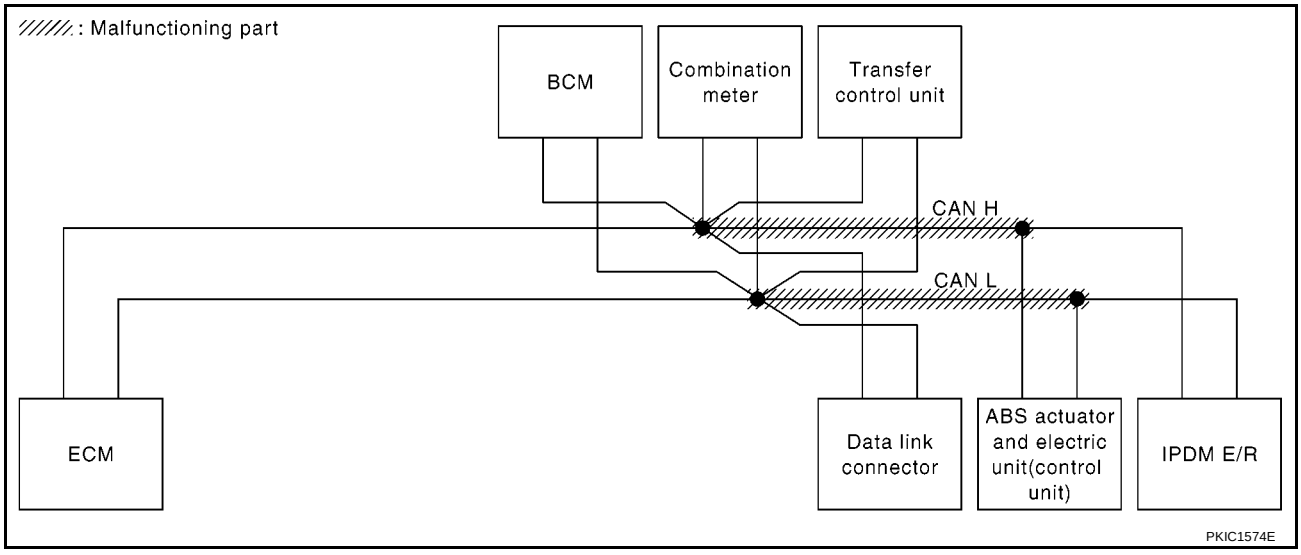
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1959E

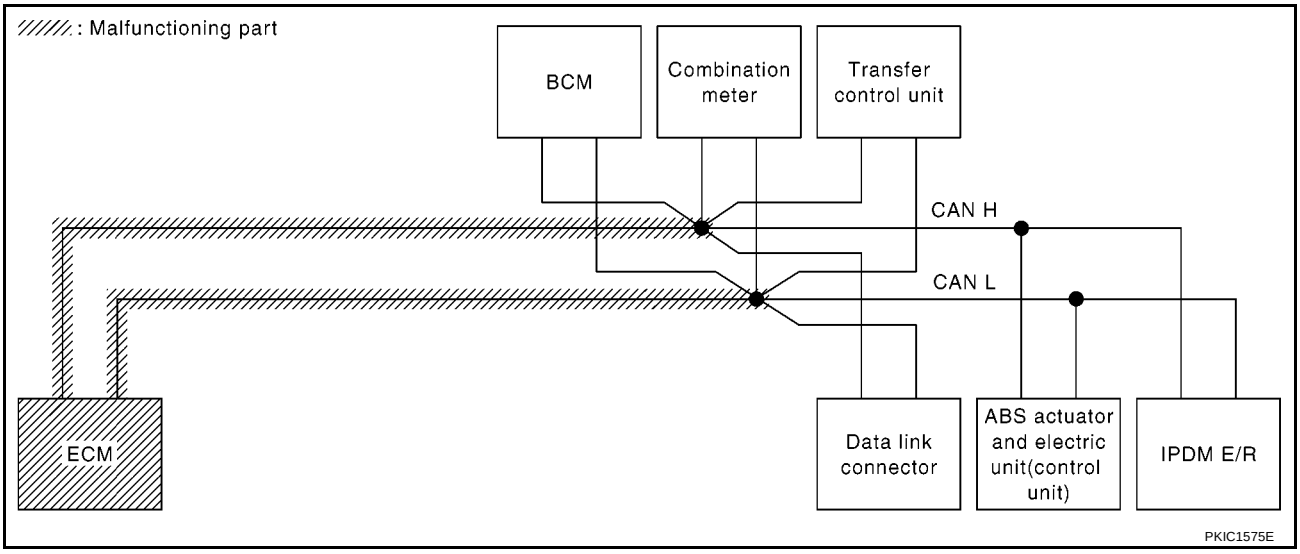


Case 2

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1960E



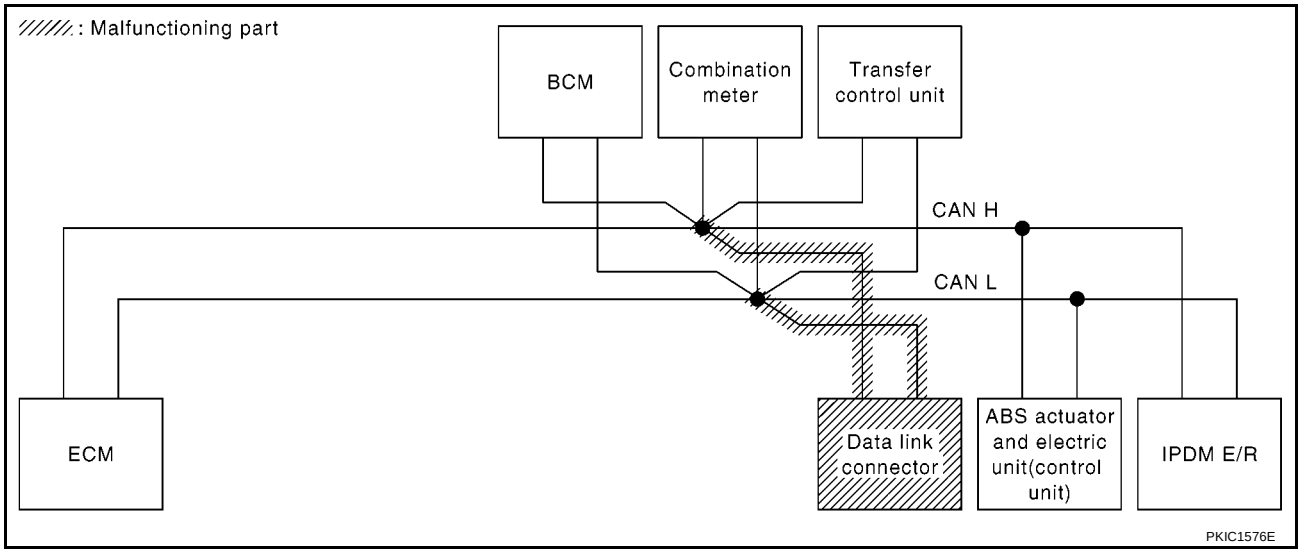
PKIC1575E

Case 3

Check data link connector circuit. Refer to LAN-300, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1961E

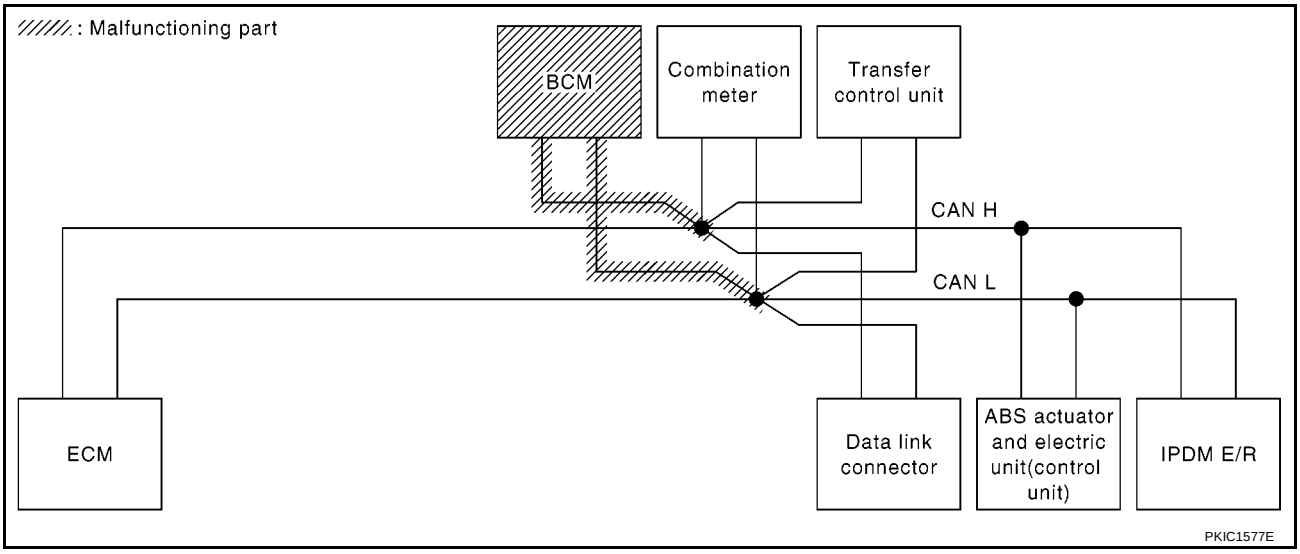


Case 4

Check BCM circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1962E



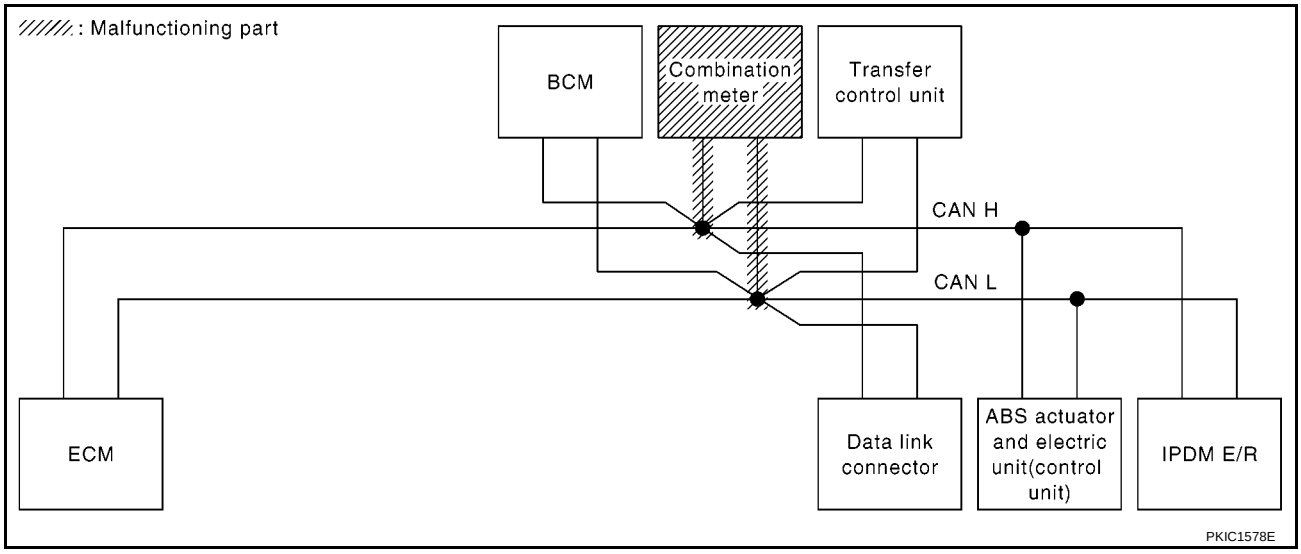
PKIC1577E

Case 5

Check combination meter circuit. Refer to LAN-301, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1963E



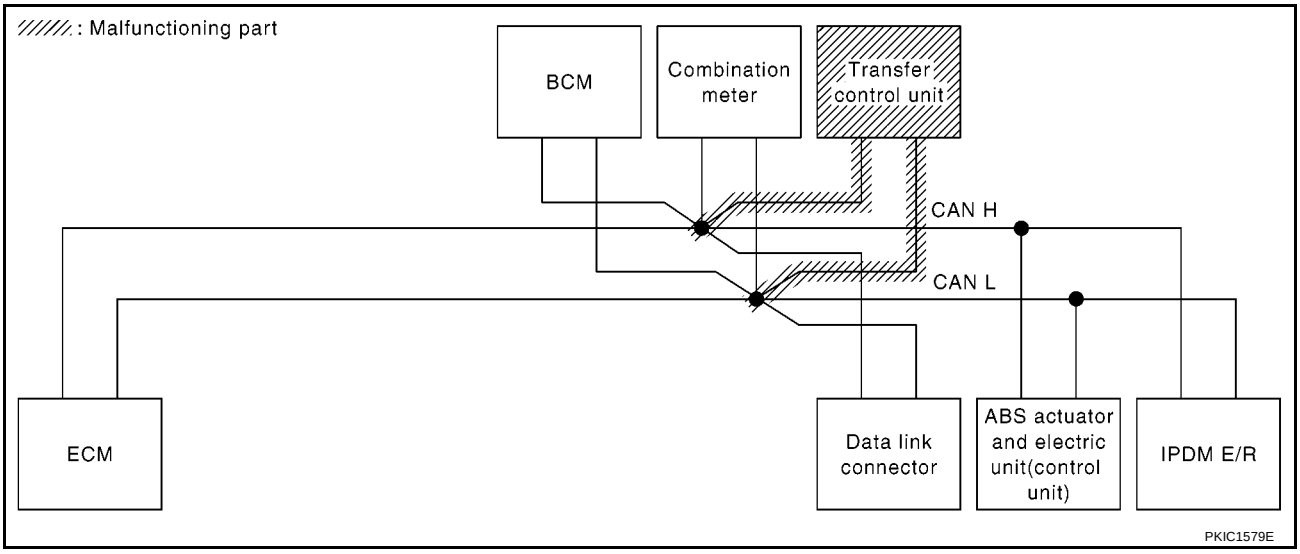
PKIC1578E

Case 6

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1964E



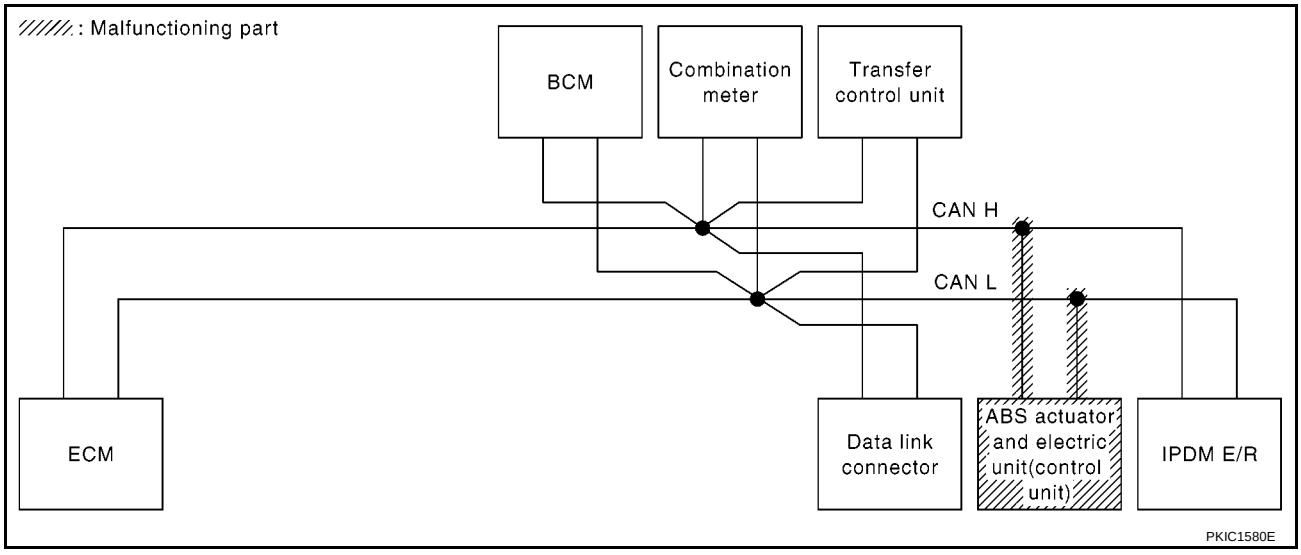
PKIC1579E

Case 7

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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)

PKIC1965E



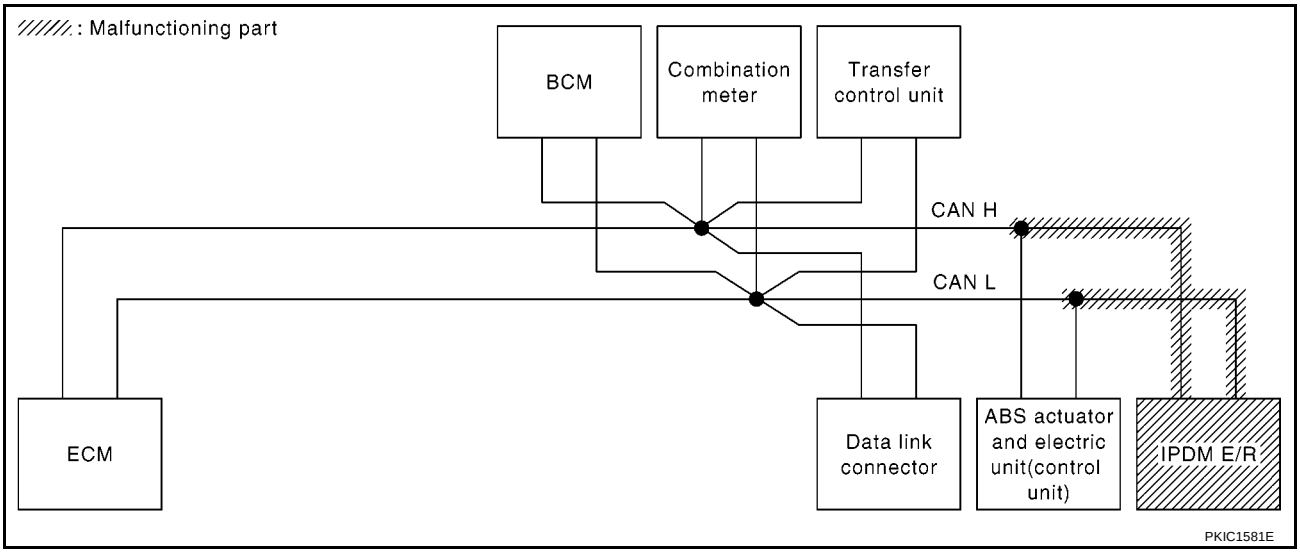
PKIC1580E

Case 8

Check IPDM E/R circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1966E



PKIC1581E

Case 9

Check CAN communication circuit. Refer to LAN-303, "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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1967E

Case 10

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1968E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay 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	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1969E

CAN SYSTEM (TYPE 17)

PFP:23710

Component Parts and Harness Connector Location

EKS00OJJ

Refer to LAN-23, "Component Parts and Harness Connector Location" .

Schematic

EKS00OJK

Refer to LAN-25, "Schematic" .

Wiring Diagram — CAN —

EKS00OJL

Refer to LAN-26, "Wiring Diagram — CAN —" .

Check Sheet

EKS00OJM

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

Check sheet table

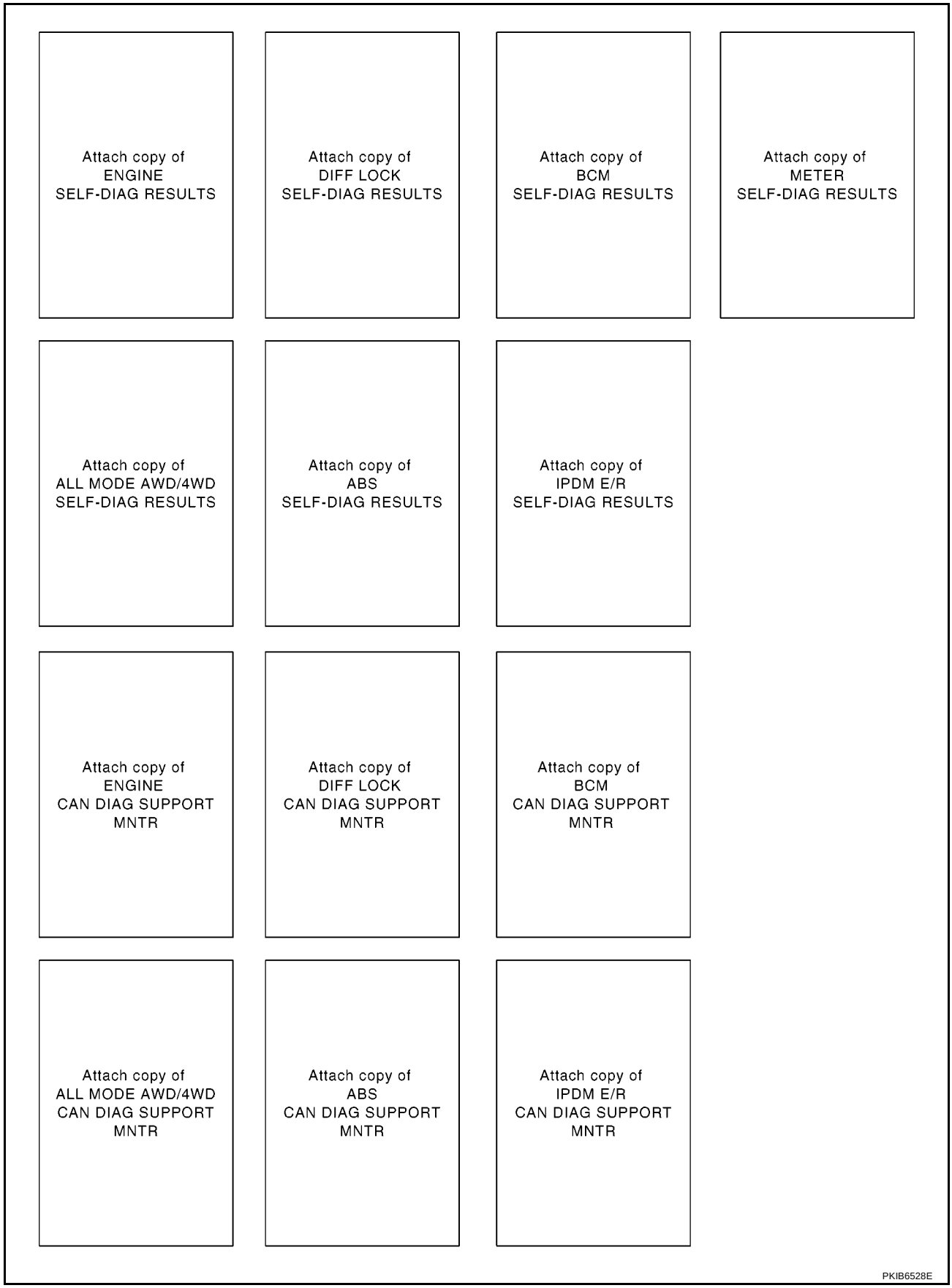
SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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

PKIC1430E


Attach copy of
ENGINE
SELF-DIAG RESULTS
Attach copy of
DIFF LOCK
SELF-DIAG RESULTS
Attach copy of
BCM
SELF-DIAG RESULTS
Attach copy of
METER
SELF-DIAG RESULTS
Attach copy of
ALL MODE AWD/4WD
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
DIFF LOCK
CAN DIAG SUPPORT
MNTR
Attach copy of
BCM
CAN DIAG SUPPORT
MNTR
Attach copy of
ALL MODE AWD/4WD
CAN DIAG SUPPORT
MNTR
Attach copy of
ABS
CAN DIAG SUPPORT
MNTR
Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR
PKIB6528E

CHECK SHEET RESULTS (EXAMPLE)

NOTE:

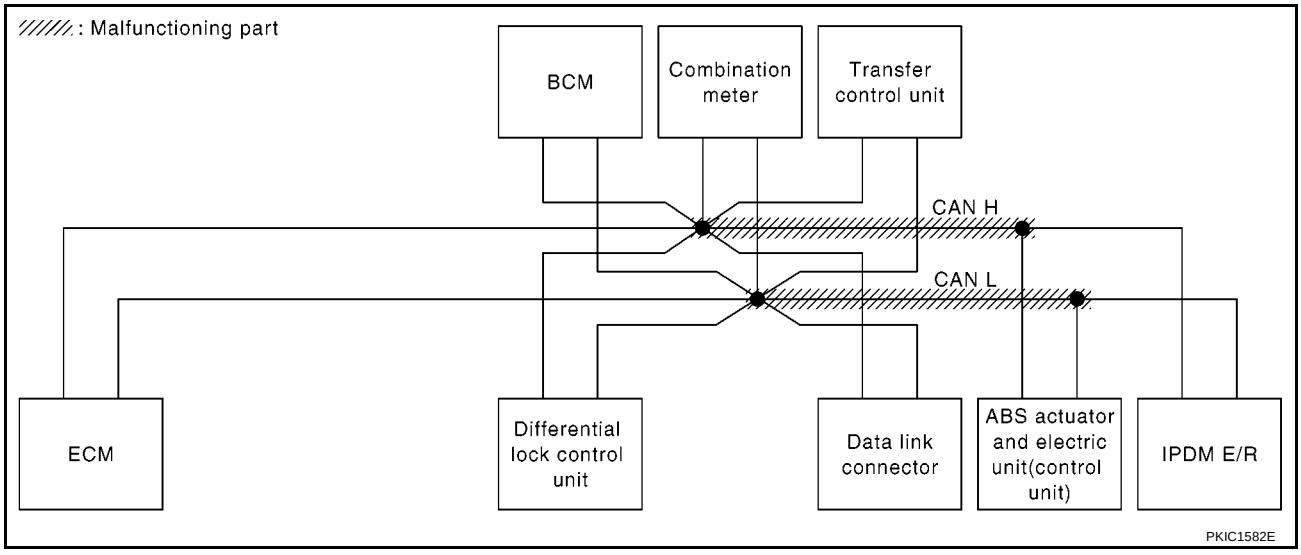
If a check mark is put on “NG” on “INITIAL DIAG (Initial diagnosis)”, replace the control unit.

Case 1

Check harness between data link connector and ABS actuator and electric unit (control unit) circuit. Refer to LAN-296, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1970E

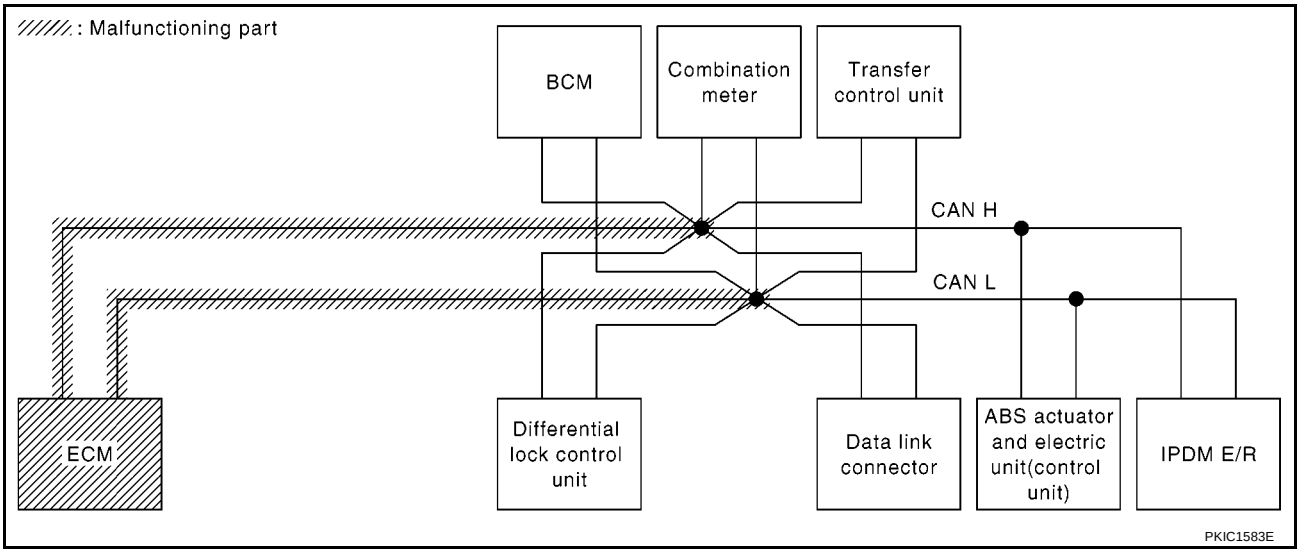


Case 2

Check ECM circuit. Refer to LAN-297, "ECM Circuit Inspection for M/T Models" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1971E



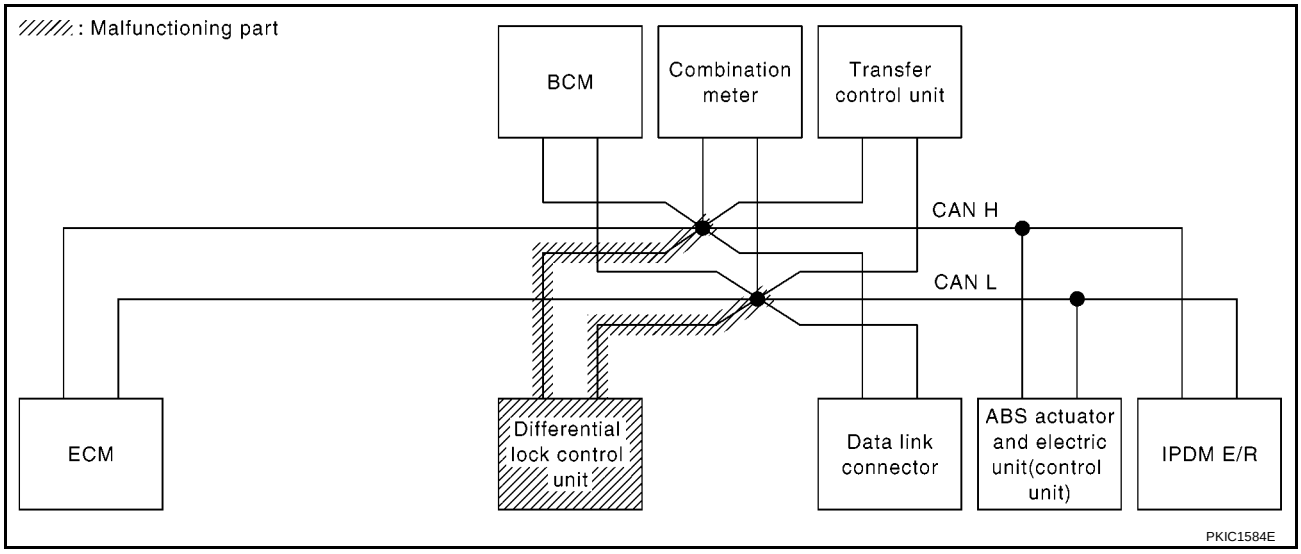
PKIC1583E

Case 3

Check differential lock control unit circuit. Refer to LAN-299, "Differential Lock 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1972E

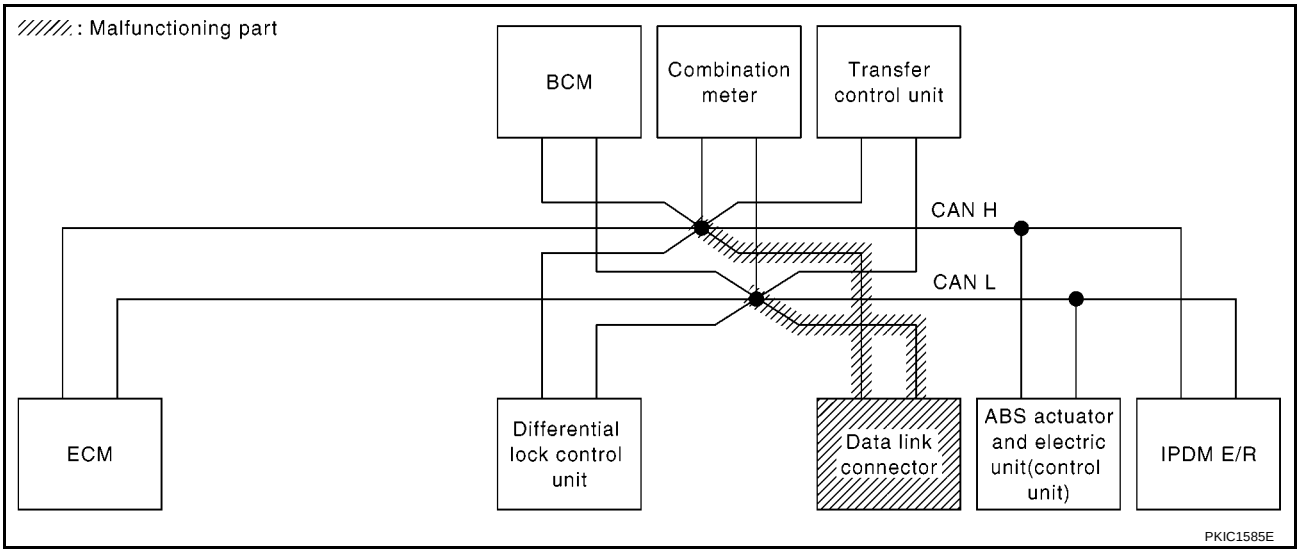


Case 4

Check data link connector circuit. Refer to LAN-300, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1973E



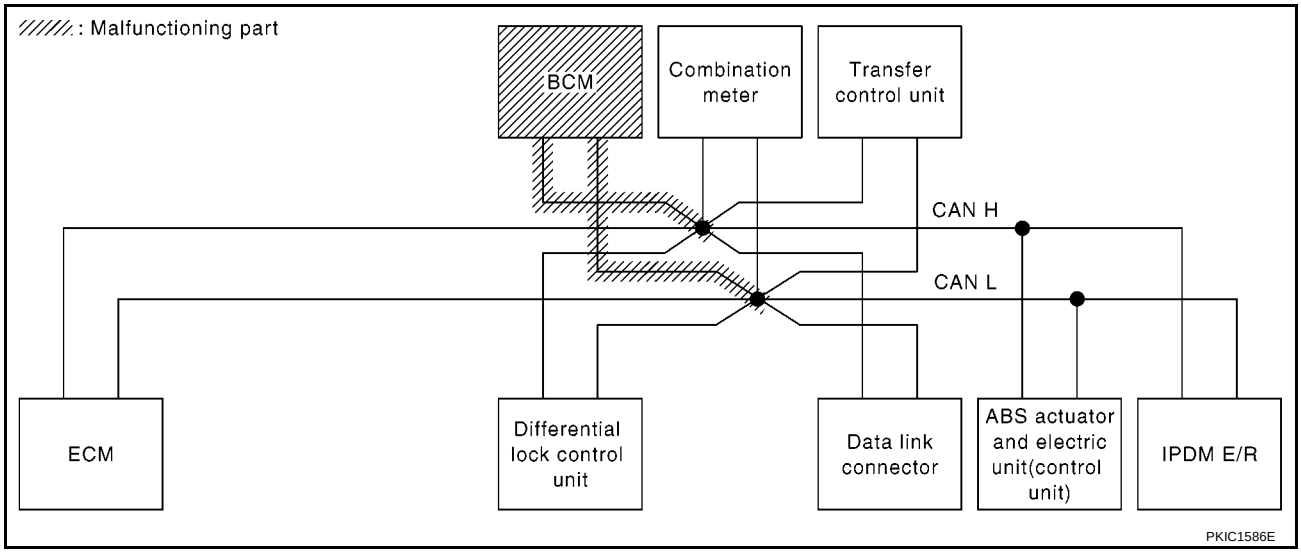
PKIC1585E

Case 5

Check BCM circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1974E



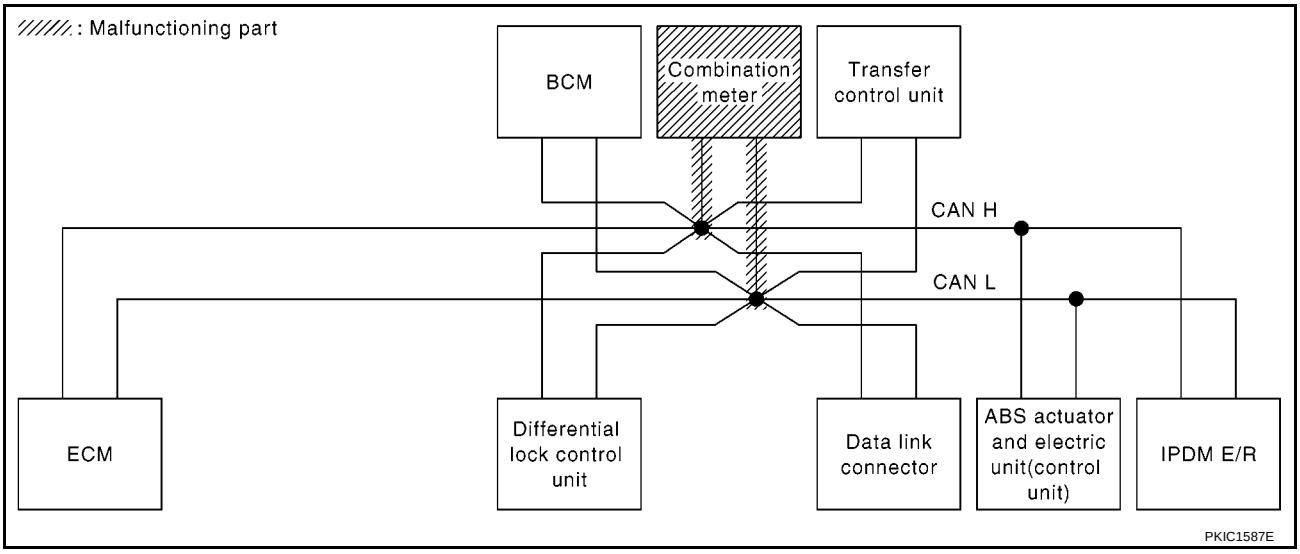
PKIC1586E

Case 6

Check combination meter circuit. Refer to LAN-301, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN ✓	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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)

PKIC1975E



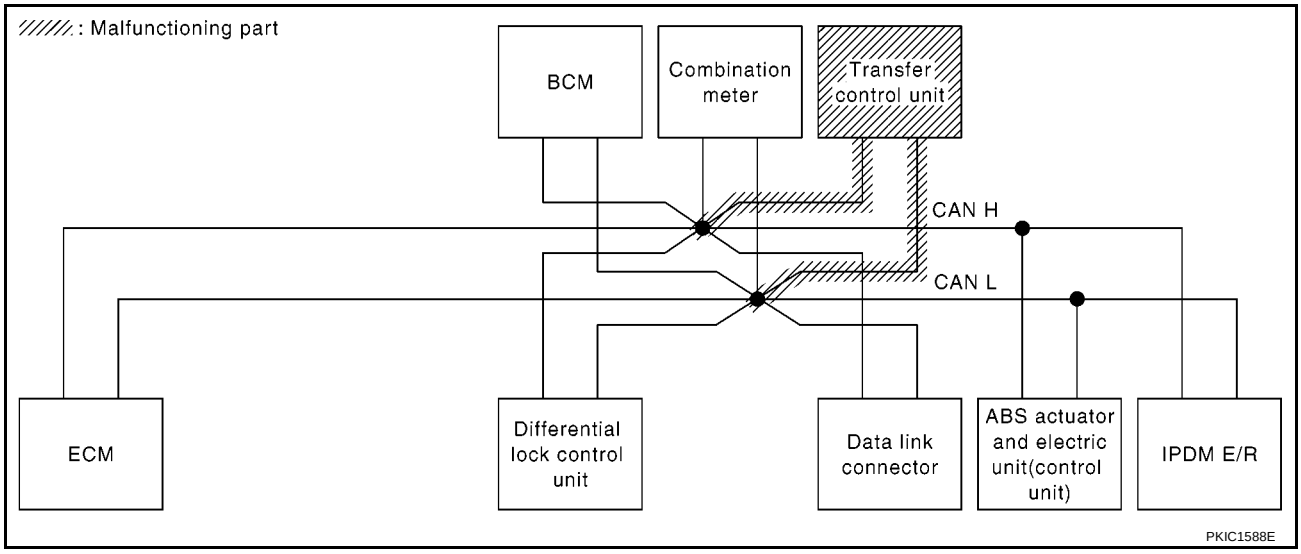
PKIC1587E

Case 7

Check transfer control unit circuit. Refer to LAN-302, "Transfer 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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN ✓	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1976E



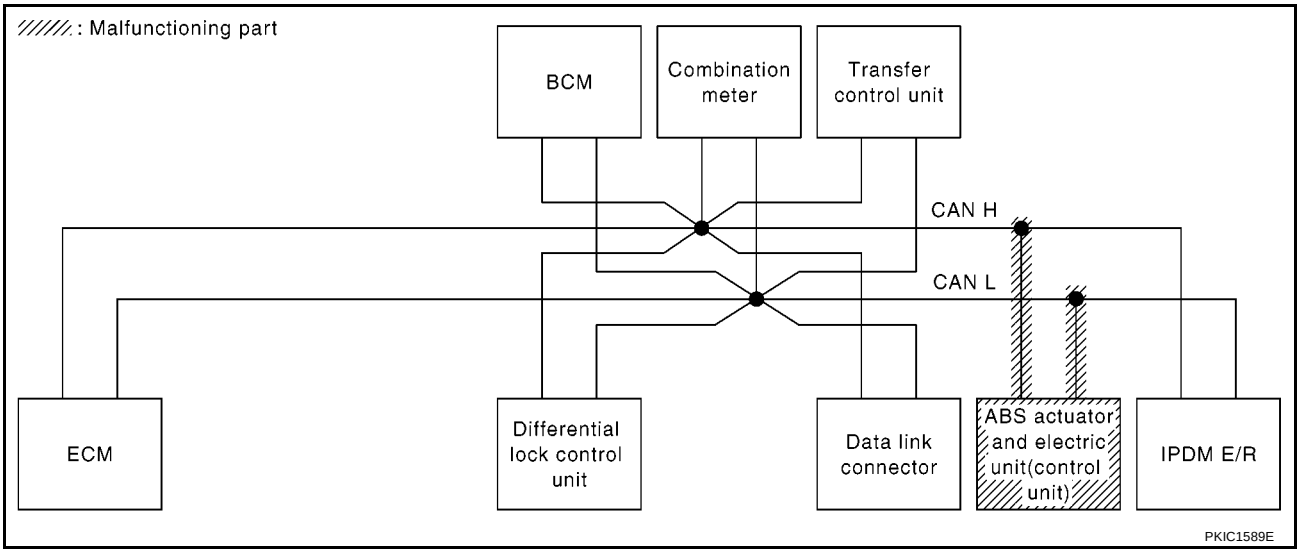
PKIC1588E

Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-302, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1977E



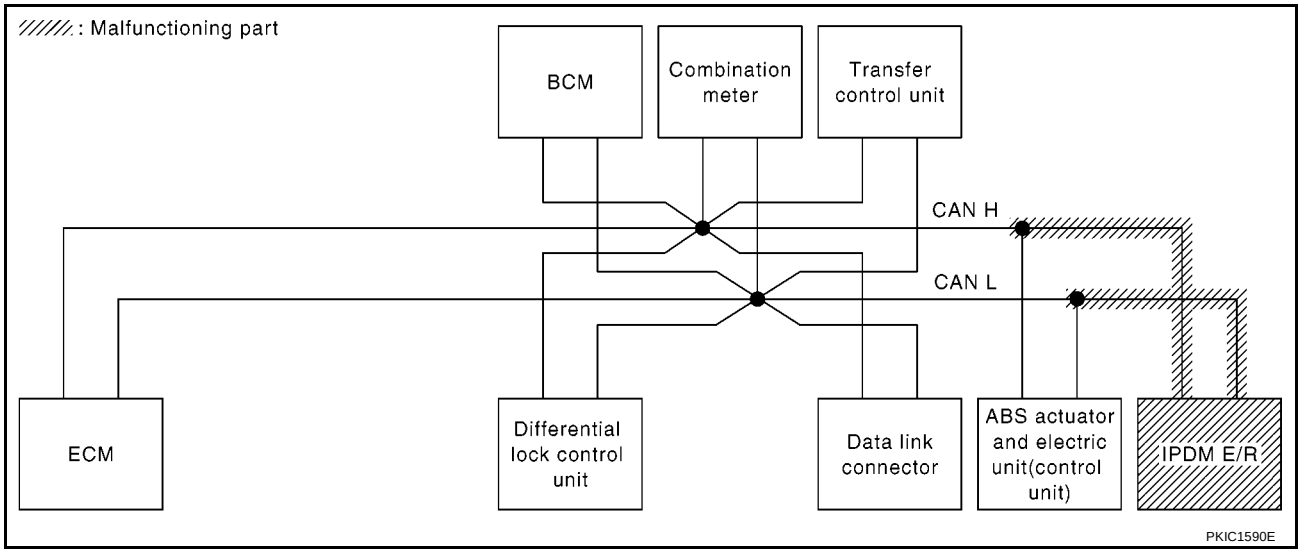
PKIC1589E

Case 9

Check IPDM E/R circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN ✓	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1978E



PKIC1590E

Case 10

Check CAN communication circuit. Refer to LAN-303, "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	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN ✓	—	UNKWN ✓	UNKWN ✓	—	—	—	CAN COMM CIRCUIT (U1000) ✓
DIFF LOCK	—	NG	UNKWN ✓	UNKWN ✓	—	—	UNKWN ✓	UNKWN ✓	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication ✓	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication ✓	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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) ✓

PKIC1979E

Case 11

Check IPDM E/R ignition relay circuit continuously sticks “OFF”. Refer to LAN-304, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000) ✓
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000) ✓
ALL MODE AWD/4WD	—	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)

PKIC1980E

Case 12

Check IPDM E/R ignition relay circuit continuously sticks “ON”. Refer to LAN-304, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								SELF-DIAG RESULTS
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	BCM/SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	
ENGINE	—	NG	UNKWN	—	UNKWN	UNKWN	—	—	—	CAN COMM CIRCUIT (U1000)
DIFF LOCK	—	NG	UNKWN	UNKWN	—	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	—	UNKWN	CAN COMM CIRCUIT (U1000)
METER	No indication	—	—	—	—	—	—	—	—	CAN COMM CIRCUIT (U1000)
ALL MODE AWD/4WD	—	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)

PKIC1981E

TROUBLE DIAGNOSIS FOR SYSTEM

PFP:00000

Inspection Between TCM and Data Link Connector Circuit

EKS00O4W

1. CHECK CONNECTOR

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

- Harness connector F2
- Harness connector E8
- Harness connector E101
- Harness connector M91

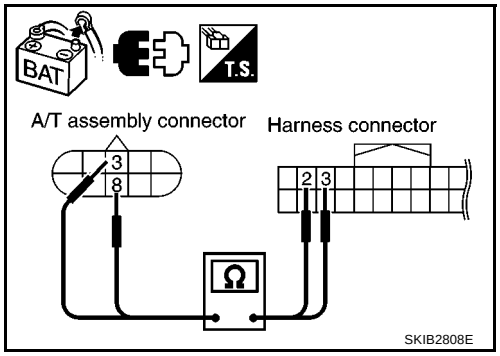
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector and harness connector F2.
2. Check continuity between A/T assembly harness connector F36 terminals 3, 8 and harness connector F2 terminals 2, 3.

3 – 2 : Continuity should exist.
8 – 3 : Continuity should exist.



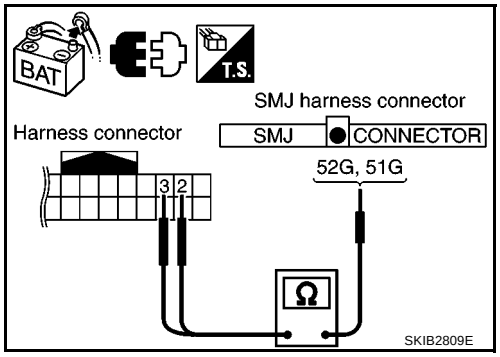
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector E101.
2. Check continuity between harness connector E8 terminals 2, 3 and harness connector E101 terminals 52G, 51G.

2 – 52G : Continuity should exist.
3 – 51G : Continuity should exist.



OK or NG

OK >> GO TO 4.
NG >> Repair harness.

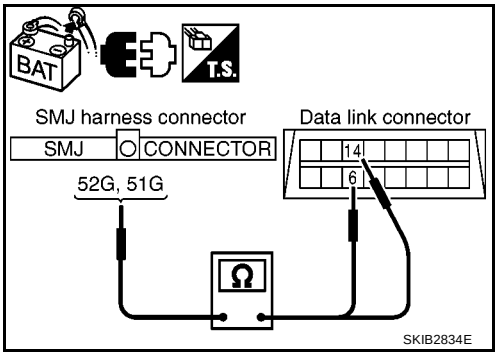
4. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector M91 terminals 52G, 51G and data link connector M45 terminals 6, 14.

52G – 6 : Continuity should exist.
51G – 14 : Continuity should exist.

OK or NG

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



Inspection Between TCM and NAVI Control Unit Circuit

EKS00O5G

1. CHECK CONNECTOR

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

- Harness connector F2
- Harness connector E8
- Harness connector E101
- Harness connector M91
- Harness connector M92
- Harness connector B101

OK or NG

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

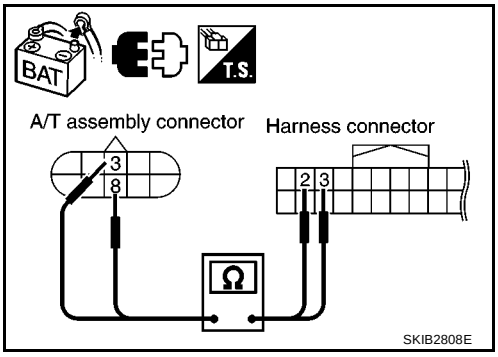
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector and harness connector F2.
2. Check continuity between A/T assembly harness connector F36 terminals 3, 8 and harness connector F2 terminals 2, 3.

3 – 2 : Continuity should exist.
8 – 3 : Continuity should exist.

OK or NG

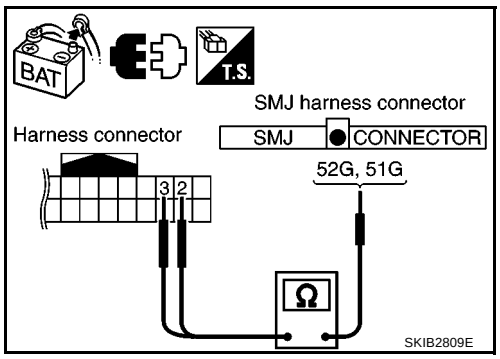
OK >> GO TO 3.
NG >> Repair harness.



3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector E101.
2. Check continuity between harness connector E8 terminals 2, 3 and harness connector E101 terminals 52G, 51G.

2 – 52G : Continuity should exist.
3 – 51G : Continuity should exist.



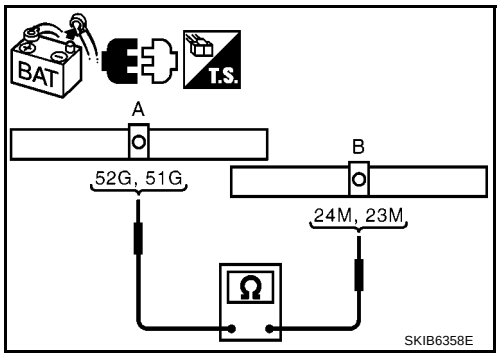
OK or NG

OK >> GO TO 4.
NG >> Repair harness.

4. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M92.
2. Check continuity between harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M91	52G	M92	24M	Yes
	51G		23M	Yes



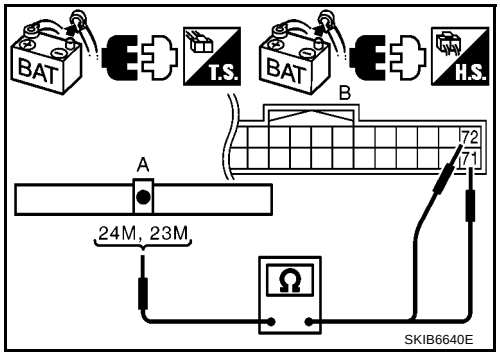
OK or NG

OK >> GO TO 5.
NG >> Repair harness.

5. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector.
2. Check continuity between harness connector (A) and NAVI control unit harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B101	24M	B107	71	Yes
	23M		72	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 NAVI Control Unit and Data Link Connector Circuit

EKS00O5H

1. CHECK CONNECTOR

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

- Harness connector B101
- Harness connector M92

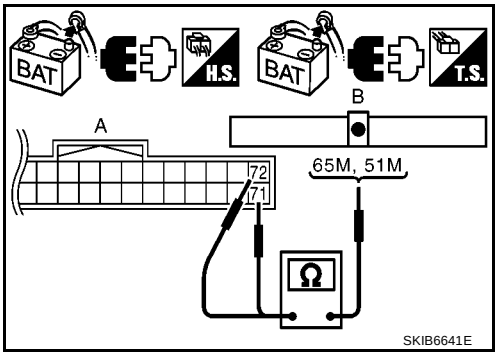
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect NAVI control unit connector and harness connector B101.
2. Check continuity between NAVI control unit harness connector (A) and harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
B107	71	B101	65M	Yes
	72		51M	Yes



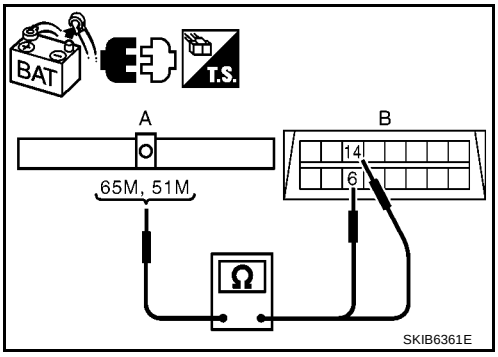
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between harness connector (A) and data link connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M92	65M	M45	6	Yes
	51M		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

EKS00O4X

1. CHECK CONNECTOR

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

- Harness connector M3
- Harness connector E112

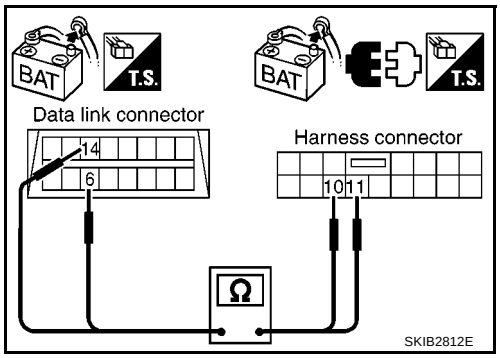
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect harness connector M3.
2. Check continuity between data link connector M45 terminals 6, 14 and harness connector M3 terminals 11, 10.

6 – 11 : Continuity should exist.
14 – 10 : Continuity should exist.



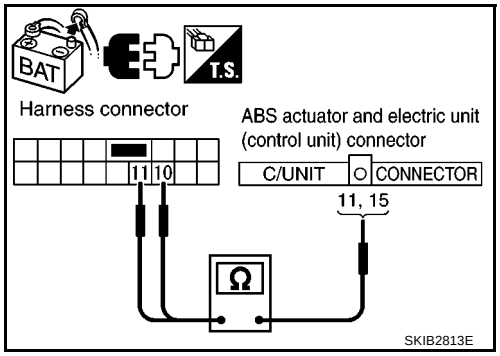
OK or NG

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

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check continuity between harness connector E112 terminals 11, 10 and ABS actuator and electric unit (control unit) harness connector E63 terminals 11, 15.

11 – 11 : Continuity should exist.
10 – 15 : Continuity should exist.



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 for M/T Models

EKS00P1M

1. CHECK CONNECTOR

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

- ECM connector
- Harness connector E101
- Harness connector M91
- Harness connector M92 (With Navigation system)
- Harness connector B101 (With Navigation system)

OK or NG

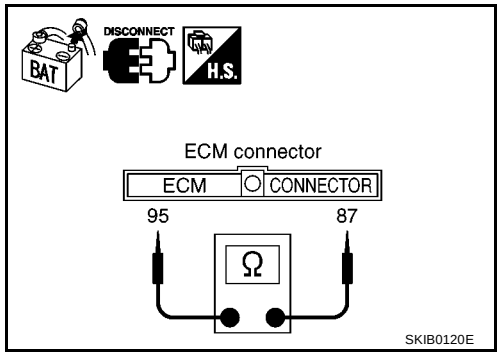
OK >> ● GO TO 2 (With Navigation system).
● GO TO 3 (Without Navigation system).

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector E20 terminals 95 and 87.

95 – 87 : Approx. 108 – 132 Ω



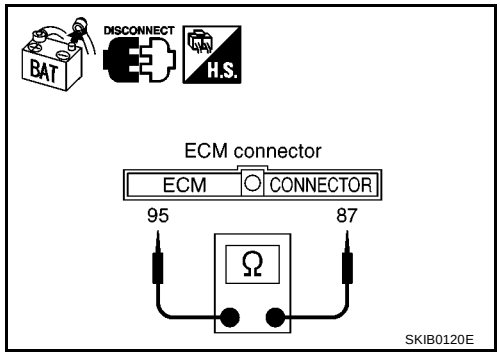
OK or NG

OK >> Replace ECM.
NG >> Repair harness between ECM and NAVI control unit.

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ECM connector.
2. Check resistance between ECM harness connector E20 terminals 95 and 87.

95 – 87 : Approx. 108 – 132 Ω



OK or NG

OK >> Replace ECM.
NG >> Repair harness between ECM and data link connector.

ECM Circuit Inspection for A/T Models

EKS00O4Y

1. CHECK CONNECTOR

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

- ECM connector
- Harness connector E9
- Harness connector F4

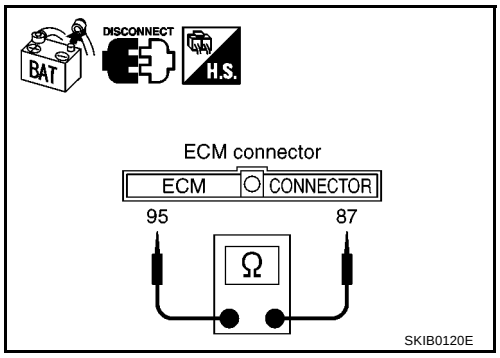
OK or NG

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 E20 terminals 95 and 87.

95 – 87 : Approx. 108 – 132 Ω



OK or NG

OK >> Replace ECM.
NG >> Repair harness between ECM and A/T assembly.

TCM Circuit Inspection

EKS00O4Z

1. CHECK CONNECTOR

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

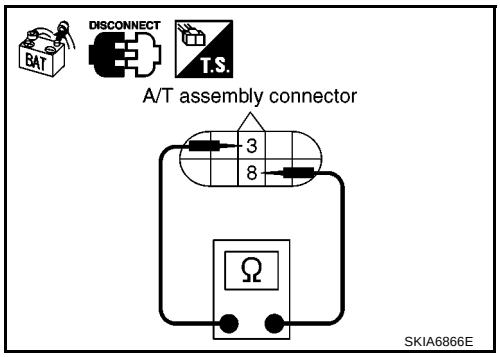
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect A/T assembly connector.
2. Check resistance between A/T assembly harness connector F36 terminals 3 and 8.

3 – 8 : Approx. 54 – 66 Ω



OK or NG

OK >> Replace control valve with TCM.
NG >> Repair harness between A/T assembly and harness connector F2.

NAVI Control Unit Circuit Inspection

EKS00PDU

1. CHECK CONNECTOR

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

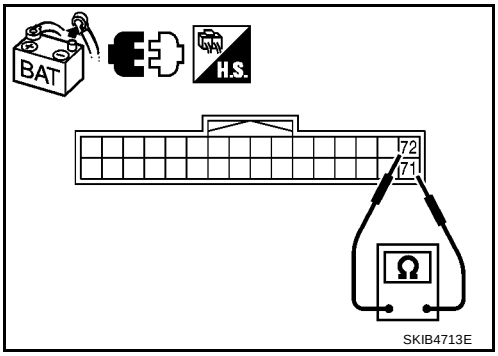
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

NAVI control unit connector	Terminal		Resistance (Approx.)
B107	71	72	54 – 66 Ω



OK or NG

OK >> Replace NAVI control unit.
NG >> Repair harness between NAVI control unit and harness connector B101.

Differential Lock Control Unit Circuit Inspection

EKS00PDV

1. CHECK CONNECTOR

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

OK or NG

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

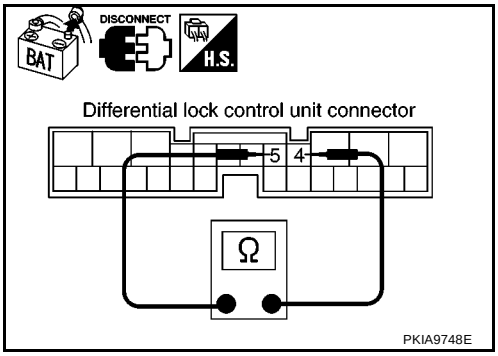
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect differential lock control unit connector.
2. Check resistance between differential lock control unit harness connector M107 terminals 5 and 4.

5 – 4 : Approx. 54 – 66 Ω

OK or NG

OK >> Replace differential lock control unit.
NG >> Repair harness between differential lock control unit and data link connector.



Front Air Control Circuit Inspection

EKS00O51

1. CHECK CONNECTOR

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

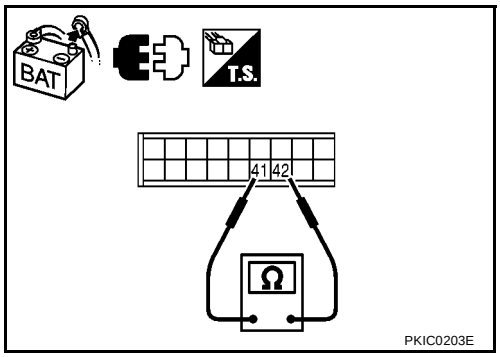
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect front air control connector.
2. Check resistance between front air control harness connector terminals.

Front air control connector	Terminal		Resistance (Approx.)
M61 or M103	41	42	54 – 66 Ω



OK or NG

OK >> Replace front air control.
NG >> Repair harness between front air control and data link connector.

Data Link Connector Circuit Inspection

EKS00O53

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check the 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.

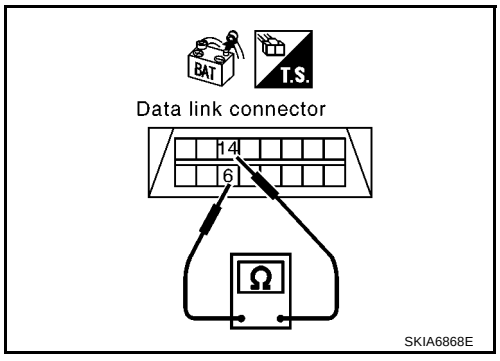
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M45 terminals 6 and 14.

6 – 14 : Approx. 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 BCM.



BCM Circuit Inspection

EKS00O54

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the 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.

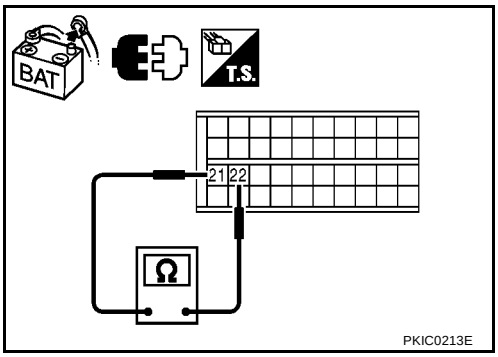
2. CHECK HARNESS FOR OPEN CIRCUIT

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

BCM connector	Terminal		Resistance (Approx.)
M42	22	21	54 – 66 Ω

OK or NG

OK >> Replace BCM. Refer to BCS-17, "Removal and Installation of BCM" .
NG >> Repair harness between BCM and data link connector.



Combination Meter Circuit Inspection

EKS00O55

1. CHECK CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect the 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.

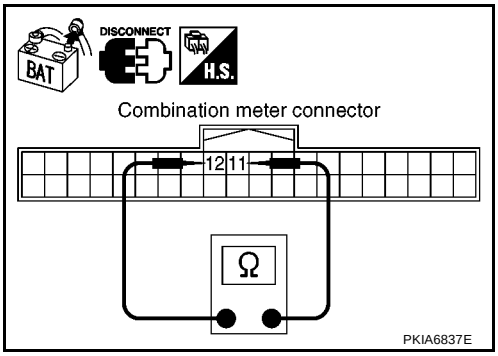
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect combination meter connector.
2. Check resistance between combination meter harness connector M23 terminals 12 and 11.

12 – 11 : Approx. 54 – 66 Ω

OK or NG

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



Transfer Control Unit Circuit Inspection

EKS00O56

1. CHECK CONNECTOR

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

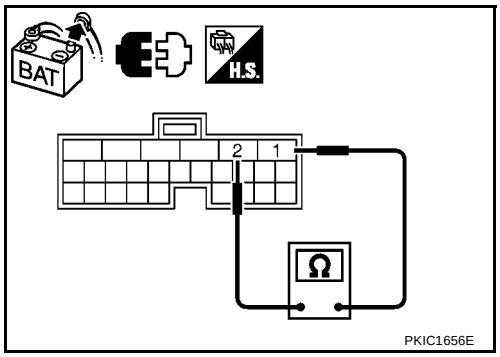
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

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

Transfer control unit connector	Terminal		Resistance (Approx.)
M105	1	2	54 – 66 Ω



OK or NG

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

ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

EKS00O59

1. CHECK CONNECTOR

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

OK or NG

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

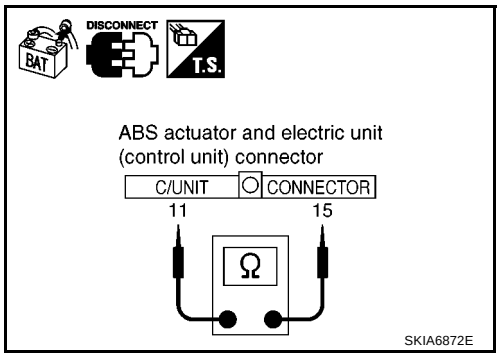
2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect ABS actuator and electric unit (control unit) connector.
2. Check resistance between ABS actuator and electric unit (control unit) harness connector E63 terminals 11 and 15.

11 – 15 : Approx. 54 – 66 Ω

OK or NG

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



IPDM E/R Circuit Inspection

EKS00O5A

1. CHECK CONNECTOR

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

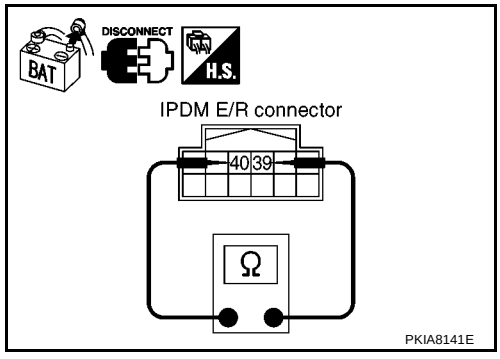
OK or NG

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

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check resistance between IPDM E/R harness connector E17 terminals 39 and 40.

39 – 40 : Approx. 108 – 132 Ω



OK or NG

OK >> Replace IPDM E/R.
NG >> Repair harness between IPDM E/R and harness connector E112.

CAN Communication Circuit Inspection

EKS00O5B

1. CHECK CONNECTOR

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

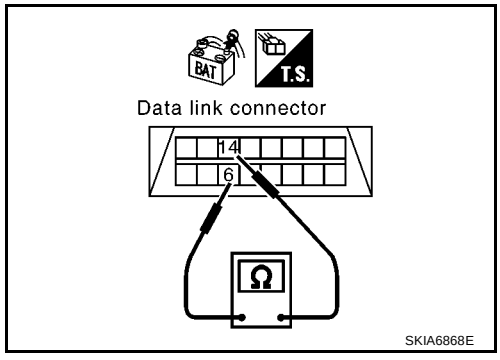
OK or NG

OK >> GO TO 2.
NG >> Repair terminal or connector as necessary.

2. CHECK HARNESS FOR SHORT CIRCUIT

With all module and control unit connectors disconnected, check continuity between data link connector M45 terminals 6 and 14.

6 – 14 : Continuity should not exist.



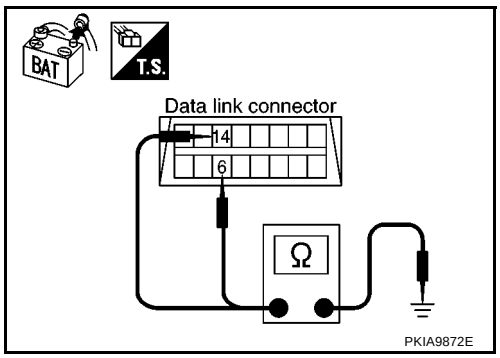
OK or NG

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 M45 terminals 6, 14 and ground.

6 – Ground : Continuity should not exist.
14 – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 4.
NG >> ● Repair harness.
● Change harness if shielded lines are used for the harness.

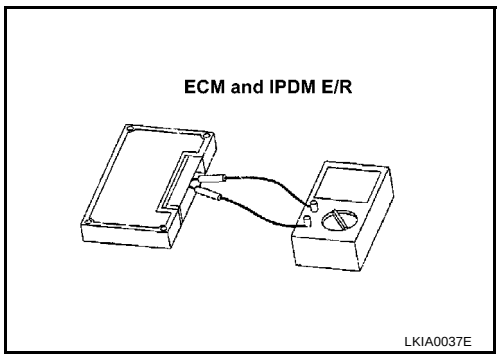
4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

Terminal		Resistance (Approx.)
95	87	108 – 132 Ω

3. Check resistance between IPDM E/R terminals.

Terminal		Resistance (Approx.)
39	40	108 – 132 Ω



OK or NG

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

5. CHECK SYMPTOM

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

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 battery cable from the negative 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 Inspection

EKS00O5C

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

- IPDM E/R power supply circuit. Refer to PG-24, "Check IPDM E/R Power Supply and Ground Circuit" .

- Ignition power supply circuit. Refer to PG-12, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START" .