

Check Sheet85

CHECK SHEET RESULTS (EXAMPLE)87

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MNTR" SCREEN FOR DRIVER SEAT CON-

DESCRIPTION OF "CAN DIAG SUPPORT

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PRECAUTIONS

[CAN]

PRECAUTIONS PFP:00001

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

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

WARNING:

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

Precautions When Using CONSULT-II

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

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

CHECK POINTS FOR USING CONSULT-II

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

Precautions for Trouble Diagnosis CAN SYSTEM

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

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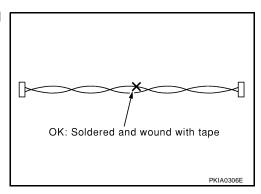
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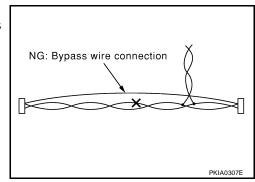
Precautions for Harness Repair CAN SYSTEM

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



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



[CAN]

TROUBLE DIAGNOSES WORK FLOW

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

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

WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM

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

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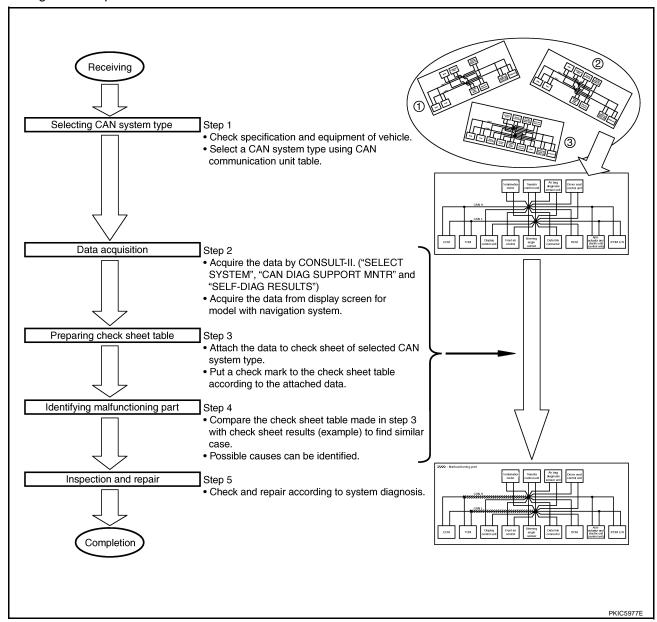
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TROUBLE DIAGNOSIS FLOW CHART

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



- Step 1: Refer to LAN-7, "SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)".
- Step 2: Refer to <u>LAN-8</u>, "ACQUISITION OF DATA BY CONSULT-II".
- Step 3: Refer to LAN-9, "HOW TO USE CHECK SHEET TABLE".
- Step 4: Refer to <u>LAN-10</u>, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- Step 5: Refer to <u>LAN-195</u>, "TROUBLE <u>DIAGNOSIS FOR SYSTEM"</u>.

[CAN]

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

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

| 2V | × | × | VQ- | Part time; 40DE V/T DC | | 4WD(A | II-mode) | × | Check basic specification of the vehicl Select "×" if it is model with automatic air conditioner. |
|-------|-------|-------|---------|---------------------------------|-------|-------|----------|-------|--|
| × | | | A | VT DC | | × | | | Select "x" if it is model with automatic |
| × | | | | DC | | × | | | |
| × | | | V | Ī | | × | | | |
| × | | | | × | | × | | | |
| | × | × | | | | | | | |
| | | + | | | | | × | × | Select "x" if it is model with automatic drive positioner. |
| | | × | | | | | | × | Select "x" if it is model with navigation system. |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Which number is selected when |
| XX:XX | XX:XX | XX:XX | . XX:XX | XX:XX | XX:XX | XX:XX | XX:XX | XX:XX | sequentially selecting from the top of the specification table? |
| | | | | | | | | | The number is "CAN system type" of the applicable vehicle. |
| | | | | | | | | | 2 3 4 5 6 7 8 9 10 XX.XX XX.XX XX.XX XX.XX XX.XX XX.XX XX.XX XX.XX XX.XX |

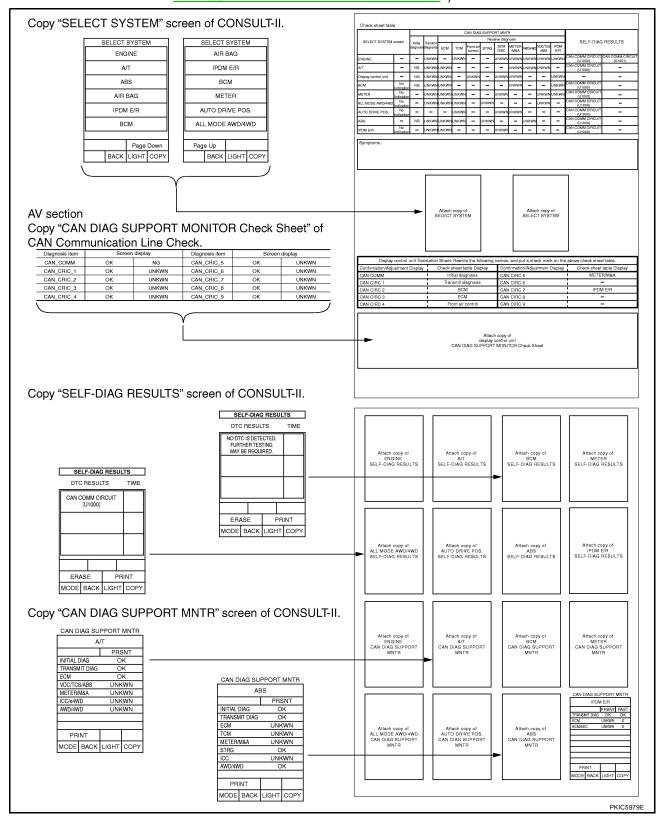
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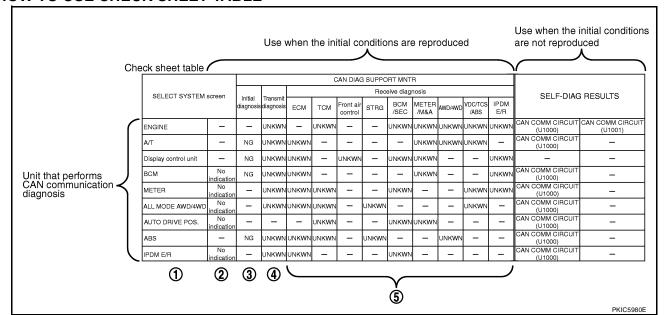
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ACQUISITION OF DATA BY CONSULT-II

Attach the data acquired by CONSULT-II on the check sheet determined according to CAN system type.(For display control unit, transfer the data from the display screen of the vehicle to "CAN DIAG SUPPORT MONITOR Check Sheet". Refer to AV-132, "CAN Communication Line Check".)



HOW TO USE CHECK SHEET TABLE



- 1. Unit names displayed on CONSULT-II.
- "No indication": Put a check mark to it if the unit name described in step 1 is not displayed on "SELECT SYSTEM" screen of CONSULT-II. (Unit communicating with CONSULT-II via CAN communication line)
 "-": Column not used (Unit communicating with CONSULT-II excluding CAN communication line)
- 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 <u>LAN-10</u>, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- When the initial conditions are not reproduced, refer to <u>LAN-14</u>, "Example of Filling in <u>Check Sheet When</u> Initial Conditions Are Not Reproduced".

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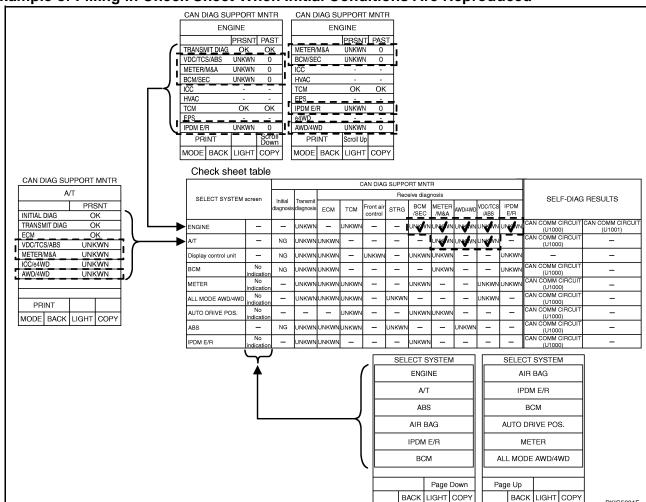
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Example of Filling in Check Sheet When Initial Conditions Are Reproduced

 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:

Do not put a check mark on items in the column of "No indication" on the check sheet when displaying all items on "SELECT SYSTEM" screen.

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

NOTE:

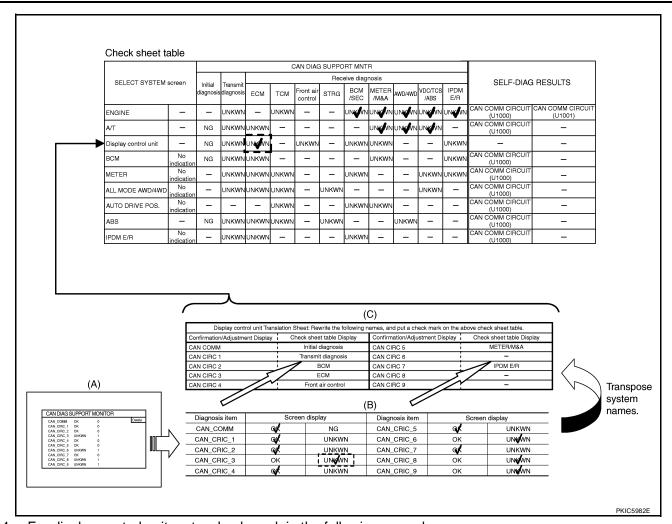
In "CAN DIAG SUPPORT MNTR" screen, "UNKWN" is displayed on "VDC/TCS/ABS", "METER/M&A", "BCM/SEC", "IPDM E/R" and "AWD/4WD". Put a check mark to it.

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

NOTE:

• For "A/T", "UNKWN" is displayed on "VDC/TCS/ABS", "METER/M&A", "ICC/e4WD" and "AWD/4WD". But put a check mark to "VDC/TCS/ABS", "METER/M&A" and "AWD/4WD" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

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- 4. For display control unit, put a check mark in the following procedure.
- Copy to "CAN DIAG SUPPORT MONITOR Check Sheet" (B) from the display screen (A). Refer to AV-132, "CAN Communication Line Check".
- b. Read "CAN DIAG SUPPORT MONITOR Check Sheet" (B) with "Display control unit Translation Sheet" (C).
- c. Check "UNKWN" with a check mark. Put a check mark to the check sheet table.

NOTE:

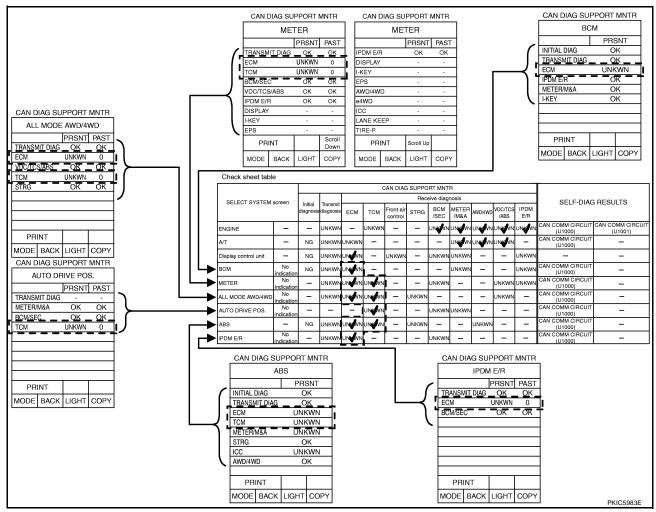
In "CAN DIAG SUPPORT MONITOR Check Sheet" (B), check marks are put to "CAN CIRC 3", "CAN CIRC 6", "CAN CIRC 8" and "CAN CIRC 9". But, in the column of the check sheet table indication in "Display control unit Translation Sheet" (C), "ECM" is listed only for "CAN CIRC 3". Therefore, put a check mark to "ECM" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.

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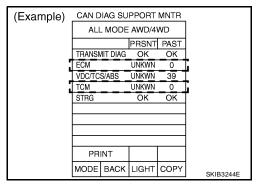
5. Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "BCM", "METER", "ALL MODE AWD/4WD", "AUTO DRIVE POS.", "ABS" and "IPDM E/R" as well as "ENGINE". And then, put a check mark to the check sheet table.

NOTE:

- For "BCM", "UNKWN" is displayed on "ECM". Put a check mark to it.
- For "METER", "UNKWN" is displayed on "ECM" and "TCM". Put a check mark to it.
- For "ALL MODE AWD/4WD", "UNKWN" is displayed on "ECM" and "TCM". Put a check mark to it.
- For "AUTO DRIVE POS.", "UNKWN" is displayed on "TCM". Put a check mark to it.
- For "ABS", "UNKWN" is displayed on "ECM", "TCM", "METER/M&A" and "ICC". But put a check mark to "ECM" and "TCM" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.
- For "IPDM E/R", "UNKWN" is displayed on "ECM". Put a check mark to it.

CAUTION:

"ALL MODE AWD/4WD" puts a check mark on the check sheet when "Present" is "UNKWN" and "Past" is "0".



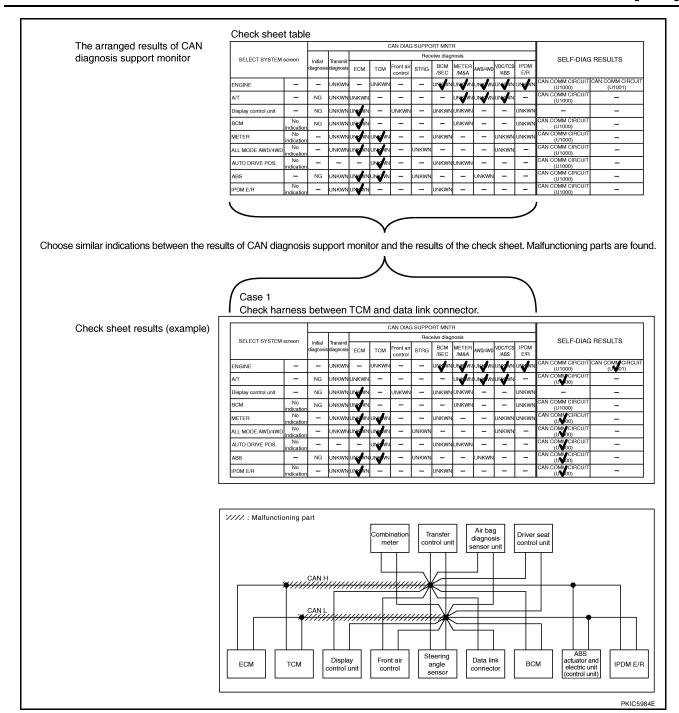
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NOTE:

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

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

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

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

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | | |
|--|--|----------------------|-----------------------|----------------------------|--|---------|------------------------|--|-----------------|-----------------|-------------|--------------------------|-----------------------|-----------------------------------|
| SELECT SYSTEM | ELECT SYSTEM screen Initial Transmit Receive diagnosis | | | | | | | SELF-DIAG RESULTS | | | | | | |
| CLLCT CTCTL. | 1 0010011 | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | | DEEL DIAC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | (U | 1000) | CAN COMM CIRCU (U N 01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | – | – | UNKWN | UNKWN | UNKWN | _ | CAN CON | MM CIRCUIT 1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | | MM CIRCUIT 1000) | _ |
| METER | No indication | | UNKWN | UNKWN | UNKWN | _ | UNKWN | | - | UNKWN | UNKWN | CAN CON (U | MM CIRCUIT (***00) | _ |
| ALL MODE AWD/4WI | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | 1 | - | UNKWN | ı | (U | MMCIRCUIT 1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | | UNKWN | _ | 1 | (U | MMCIRCUIT 1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | 1 | - | _ | | | MICIRCUIT | _ |
| | | | | | | | | | | | | | | |
| SYSTEM E | ENGINE | | sys | TEM A/1 | г | | SY | STEM E | всм | | S' | YSTEM M | | |
| | ENGINE IIAG RESUL | TS | sys | TEM A/1 | | ILTS | SYA | | 3CM DIAG RES | ULTS | s | YSTEM M | | s |
| | IAG RESUL | TS TIME | | | AG RESU | ULTS | | | DIAG RES | ULTS | | YSTEM M | METER DIAG RESULTS | S TIME |
| SELF-D | IAG RESUL | | DTC | SELF-DIA | AG RESU | JLTS | DT- NO FUI | SELF-D | DIAG RES | TIME | | YSTEM M | METER DIAG RESULTS | |
| SELF-D DTC RESULT | IIAG RESUL TS CIRCUIT | TIME 1t | DTC CAN [U10 | SELF-DIA | AG RESU | ULTS | DTI NO FUI MA | SELF-D C RESULT DTC IS D RTHER TE Y BE REC | DIAG RES | TIME D. | | YSTEM M SELF-D TC RESULT | METER DIAG RESULTS | TIME |
| SELF-C DTC RESUL* CAN COMM [U1001] SYSTEM AI | IIAG RESUL TS CIRCUIT | TIME 1t | DTC CAN [U10 | RESULTS COMM C | AG RESU | | DTI NO FUI MA | SELF-D C RESULT DTC IS D RTHER TO Y BE RECO | DIAG RES | TIME D. | | YSTEM M SELF-D TC RESULT | METER DIAG RESULTS | TIME |
| SELF-C DTC RESUL* CAN COMM [U1001] SYSTEM AI | IIAG RESUL TS CIRCUIT LL MODE AV | TIME 1t | DTC CAN [U10 | SELF-DIA RESULTS COMM COOO | AG RESU S SIRCUIT BS AG RESU | | DT: NO FU MA | SELF-D C RESULT DTC IS D RTHER TO Y BE RECO | DIAG RES | TIME D. | E D C | YSTEM M SELF-D TC RESULT | METER DIAG RESULTS | TIME |

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

NOTE:

- For "ENGINE", "CAN COMM CIRCUIT [U1001]" is displayed. Put a check mark to it.
- For "A/T", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "BCM", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "METER", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "ALL MODE AWD/4WD", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "ABS", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "IPDM E/R", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.

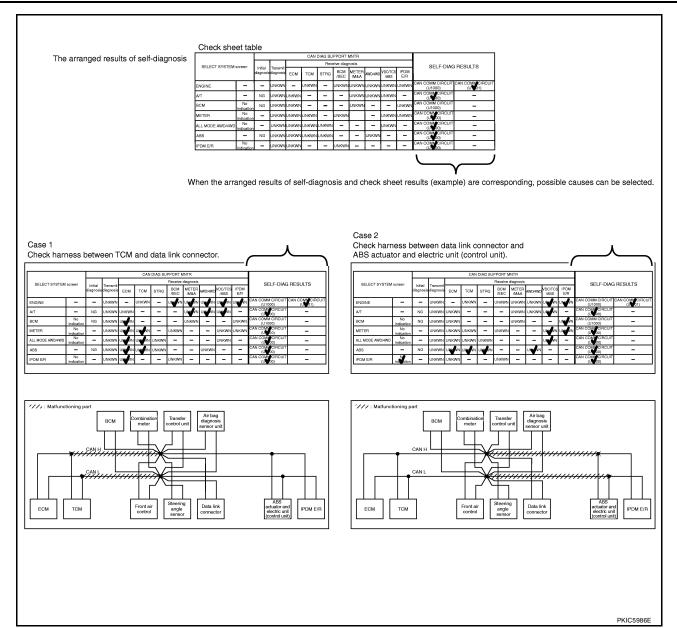
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NOTE:

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

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

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[CAN]

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

UKS003GJ

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

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

Display Results (Present)

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

Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→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]

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TCM

| CAN DIAG SUPPORT MNTR | | | | |
|-----------------------|---|---|------|-------------------------------|
| A/T | | | | |
| | PRSNT | | | |
| INITIAL DIAG OK | | | | |
| TRANSM | TRANSMIT DIAG OK | | | |
| ECM | ECM OK | | | |
| VDC/TCS | S/ABS | 0 | K | |
| METER/I | M&A | 0 | K | |
| ICC/e4W | 'D | UNK | WN | |
| AWD/4WD OK | | | K | |
| | | | | |
| | | | | |
| PRI | NT | | | |
| MODE | BACK | LIGHT | COPY | SKIB2335E |
| | INITIAL I TRANSM ECM VDC/TC: METER/I ICC/e4W AWD/4W | INITIAL DIAG TRANSMIT DIAG ECM VDC/TCS/ABS METER/M&A ICC/e4WD AWD/4WD | A/T | A/T PRSNT INITIAL DIAG |

| "SELECT SYSTEM" screen | "CAN DIAG SUPPORT MNTR" screen | Description | Present | | |
|------------------------|-----------------------------------|---|----------|--|--|
| | INITIAL DIAG | Make sure that microcomputer in ECU works normally. | OK/NG | | |
| | TRANSMIT DIAG | Make sure of normal transmission. | OK/UNKWN | | |
| | ECM | OK/UNKWN | | | |
| A/T | VDC/TCS/ABS | Make sure of normal reception from ABS actuator and electric unit (control unit). | OK/UNKWN | | |
| | METER/M&A | Make sure of normal reception from combination meter. | OK/UNKWN | | |
| | ICC/e4WD | ICC/e4WD is not diagnosed. | | | |
| | AWD/4WD | Make sure of normal reception from transfer control unit. | OK/UNKWN | | |

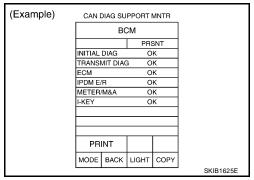
Display Results (Present)

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 BCM



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

Display Results (Present)

OK: Normal

NG: Malfunction

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

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[CAN]

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR METER

| (Example) | CAN DIAG SUPPORT MNTR CAN DIAG SUPPORT MNTR | |
|-----------|---|-----|
| | METER METER | |
| | PRSNT PAST PAST | |
| | TRANSMIT DIAG OK OK IPDM E/R OK OK | |
| | ECM OK OK DISPLAY | |
| | TCM OK OK I-KEY | |
| | BCM/SEC OK OK EPS | |
| | VDC/TCS/ABS OK OK AWD/4WD | |
| | IPDM E/R OK OK e4WD | |
| | DISPLAY ICC | |
| | I-KEY | |
| | EPS TIRE-P | |
| | PRINT Scroll Up PRINT Scroll Up | |
| | MODE BACK LIGHT COPY | |
| | PKIC | 268 |

| "SELECT SYSTEM" screen | "CAN DIAG SUPPORT MNTR" screen | Description | Present | Past |
|------------------------|-----------------------------------|---|------------|---------------|
| | TRANSMIT DIAG | Make sure of normal transmission. | OK/UNKWN/- | |
| | ECM | Make sure of normal reception from ECM. | OK/UNKWN/- | |
| | TCM | Make sure of normal reception from TCM. | OK/UNKWN/- | |
| | 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/- | |
| METER | DISPLAY | DISPLAY is not diagnosed. | _ | OK/0/1 - 39/- |
| | 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.

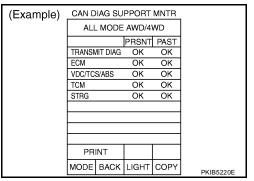
Display Results (Past)

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

[CAN]

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

All-mode 4WD model



| "SELECT SYSTEM" screen | "CAN DIAG SUPPORT MNTR" screen | Description | Present | Past |
|------------------------|-----------------------------------|---|------------|---------------|
| | TRANSMIT DIAG | Make sure of normal transmission. | OK/UNKWN/- | |
| | ECM | Make sure of normal reception from ECM. | OK/UNKWN/- | |
| ALL MODE AWD/ 4WD | VDC/TCS/ABS | Make sure of normal reception from ABS actuator and electric unit (control unit). | OK/UNKWN/- | OK/0/1 – 39/– |
| | TCM | Make sure of normal reception from TCM. | OK/UNKWN/- | |
| | STRG | OK/UNKWN/- | | |

Display Results (Present)

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

CAUTION:

"UNKWN" is indicated by erasing the self-diagnosis result when any malfunction was detected in past.

• -: 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

CAUTION:

- "UNKWN" is indicated in "Present" and "0" is indicated in "Past" when any malfunction is detected at present.
- "UNKWN" is indicated in "Present" and "1 39" is indicated in "Past" when any malfunction was detected in past.

| (Example) | CAN D | IAG SU | PPORT | MNTR | |
|-----------|--------|----------|-------|------|-----------|
| , , | ALL | . MODE | | | |
| | | | PRSNT | PAST | |
| | TRANSM | IIT DIAG | OK_ | OK | |
| ī | ECM | | UNKWN | 0 | : |
| i | VDC/TC | S/ABS | UNKWN | 39 | : |
| | TCM | | UNKWN | 0 | ! |
| | STRG | | OK | OK | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | PRI | NT | | | |
| | MODE | BACK | LIGHT | COPY | SKIB3246E |

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[CAN]

Part time 4WD model

| (Example) | CAN E | IAG SU | | | |
|-----------|---------|----------|-------|------|-----------|
| . , | ALI | MODE | | | |
| | | | PRS | SNT | |
| | INITIAL | DIAG | 0 | K | |
| | TRANS | /IT DIAG | 0 | K | |
| | ECM | | 0 | K | |
| | VDC/TC | S/ABS | 0 | ΙK | |
| | TCM | | 0 | ΙK | |
| | METER/ | M&A | 0 | ΙK | |
| | | | | | |
| | | | | | |
| | | | | | |
| | PR | INT | | | |
| | MODE | BACK | LIGHT | COPY | PKIC2594E |

| "SELECT SYSTEM" screen | "CAN DIAG SUPPORT MNTR" screen | Description | Present |
|------------------------|-----------------------------------|---|----------|
| | INITIAL DIAG | Make sure that microcomputer in ECU works normally. | OK/NG |
| | TRANSMIT DIAG | Make sure of normal transmission. | OK/UNKWN |
| ALL MODE AWD/ | ECM | Make sure of normal reception from ECM. | OK/UNKWN |
| 4WD | 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.

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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DRIVER SEAT CONTROL UNIT

| (Example) | CAN D | IAG SU | MNTR | | |
|-----------|-------------|----------|--------|------|-----------|
| , , | A | JTO DF | IVE PO | S. | |
| | | | PRSNT | PAST | |
| | TRANS | IIT DIAG | - | - | |
| | METER/ | M&A | OK | OK | |
| | BCM/SE | С | OK | OK | |
| | TCM | | OK | OK | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | PR | INI | | | |
| | MODE | BACK | LIGHT | COPY | PKIC4864E |

| "SELECT SYSTEM" screen | "CAN DIAG SUPPORT MNTR" screen | Description | Present | Past |
|------------------------|-----------------------------------|---|------------|---------------|
| | TRANSMIT DIAG | TRANSMIT DIAG is not diagnosed. | _ | |
| AUTO DRIVE POS. | METER/M&A | Make sure of normal reception from combination meter. | OK/UNKWN/- | OK/0/1 - 39/- |
| | BCM/SEC | Make sure of normal reception from BCM. | OK/UNKWN/- | |
| | TCM | OK/UNKWN/- | | |

Display Results (Present)

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

Display Results (Past)

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

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LAN-21 Revision: February 2007 2006 Pathfinder

[CAN]

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

| (Example) | CAN D | IAG SU | | | |
|-----------|-----------|---------|-------|------|-----------|
| ` ′ | | ΑE | | | |
| | | | PRS | SNT | |
| | INITIAL [| DIAG | С | ΙK | |
| | TRANSM | IT DIAG | С | K | |
| | ECM | | С | ιK | |
| | TCM | | О | ιK | |
| | METER/ | /I&A | UNF | (WN | |
| | STRG | | О | ΙK | |
| | ICC | | UNKWN | | |
| | AWD/4W | D | С | ΙK | |
| | | | | | |
| | PRINT | | | | |
| | MODE | BACK | LIGHT | COPY | PKIB6078E |

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

[CAN]

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

| (Example) | CAN D | IAG SU | MNTR | | |
|-----------|---------------|----------|-------|------|-----------|
| , , | | IPDN | | | |
| | | | PRSNT | PAST | |
| | TRANSA | IIT DIAG | | | |
| | ECM | | | | |
| | BCM/SEC OK OK | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | PR | INIT | | | |
| | | | | | |
| | MODE | BACK | LIGHT | COPY | SKIB0595E |

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

Display Results (Present)

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

Display Results (Past)

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

-AIN

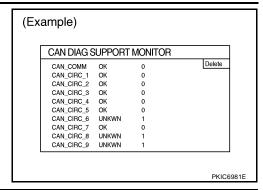
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Revision: February 2007 LAN-23 2006 Pathfinder

[CAN]

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



| Unit name | nit name Diagnosis item Description | | | Error counter (Reference) |
|----------------------|-------------------------------------|---|----------|------------------------------|
| | CAN COMM | Make sure that microcomputer in ECU works normally. | OK/NG | |
| | CAN CIRC 1 | Make sure of normal transmission. | OK/UNKWN | |
| | CAN CIRC 2 | Make sure of normal reception from BCM. | OK/UNKWN | |
| | CAN CIRC 3 | Make sure of normal reception from ECM. | OK/UNKWN | |
| Display control unit | CAN CIRC 4 | Make sure of normal reception from front air control. | OK/UNKWN | 0/1 – 50 |
| Display Control unit | CAN CIRC 5 | Make sure of normal reception from combination meter. | OK/UNKWN | 0/1 – 30 |
| | CAN CIRC 6 | CAN CIRC 6 is not diagnosed. | UNKWN | |
| | CAN CIRC 7 | Make sure of normal reception from IPDM E/R. | OK/UNKWN | |
| | CAN CIRC 8 | CAN CIRC 8 is not diagnosed. | UNKWN | |
| | CAN CIRC 9 | CAN CIRC 9 is not diagnosed. | UNKWN | |

Display Results (Present)

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

Display Results: Error Counter (Reference)

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

[CAN]

CAN COMMUNICATION

PFP:23710

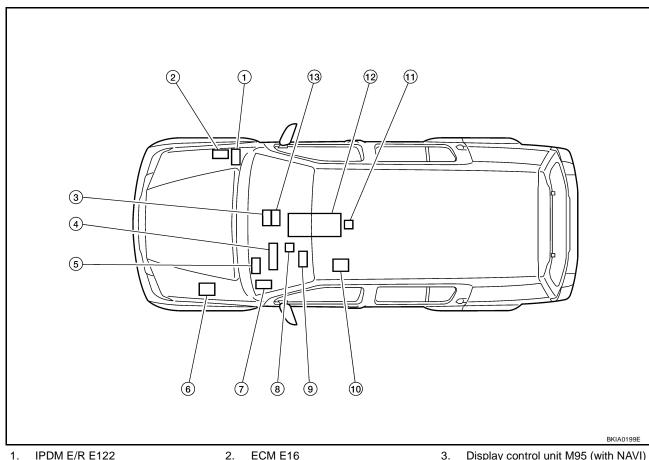
System Description

UKSOOONU

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

UKS0051T

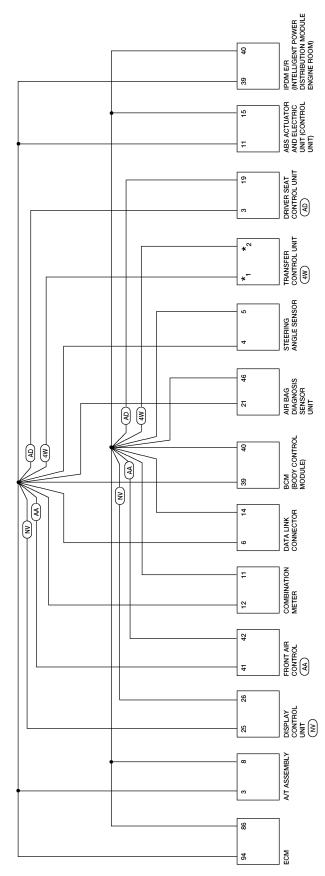


- IPDM E/R E122 1.
- 4. Combination meter M24
- Transfer control unit M152 (with 4-wheel drive)
- 10. Driver seat control unit P2 (with automatic drive positioner)
- 13. Front air control M50 (with auto A/C)
- ECM E16 2.
- 5. BCM M18
- Data link connector M22
- 11. Air bag diagnosis sensor unit M35
- Display control unit M95 (with NAVI)
- 6. ABS actuator and electric unit (control unit) E125
- Steering angle sensor M47
- 12. A/T assembly F9

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Schematic UKS0051U



(4W): WITH 4-WHEEL DRIVE
(AA): WITH AUTO A/C
(AD): WITH AUTOMATIC DRIVE POSITIONER
(AM): ALL-MODE 4WD SYSTEM
(NV): WITH NAVI
(PT): PART TIME 4WD SYSTEM

*1 (AM): 7

*2 (AM): 8

*2 (AM): 8

BKWA0659E

Wiring Diagram — CAN —

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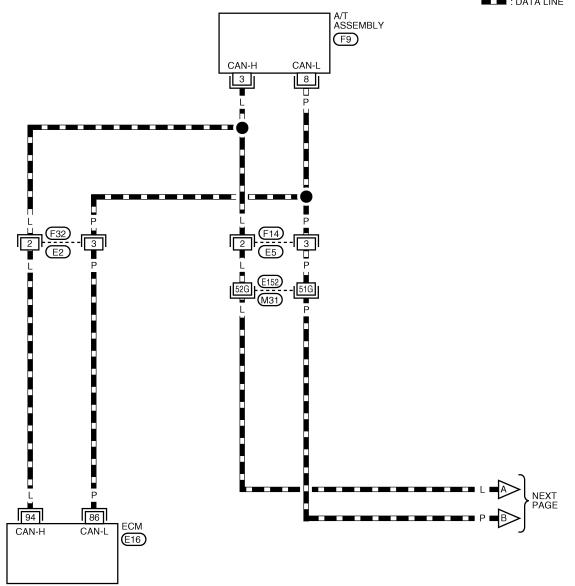
Н

LAN

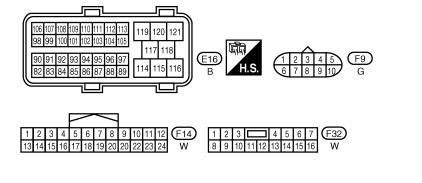
M

LAN-CAN-01

■□■ : DATA LINE

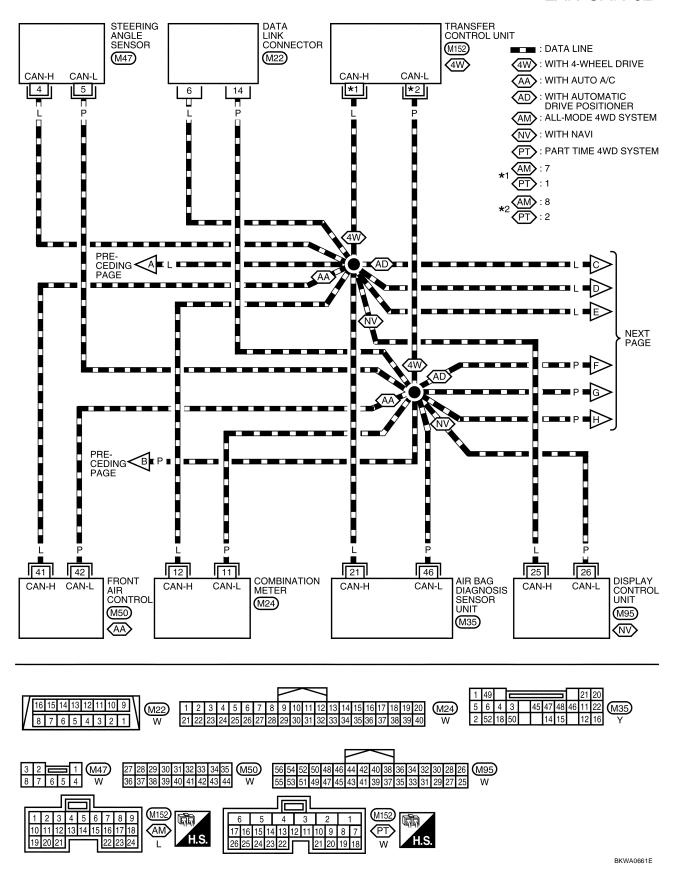


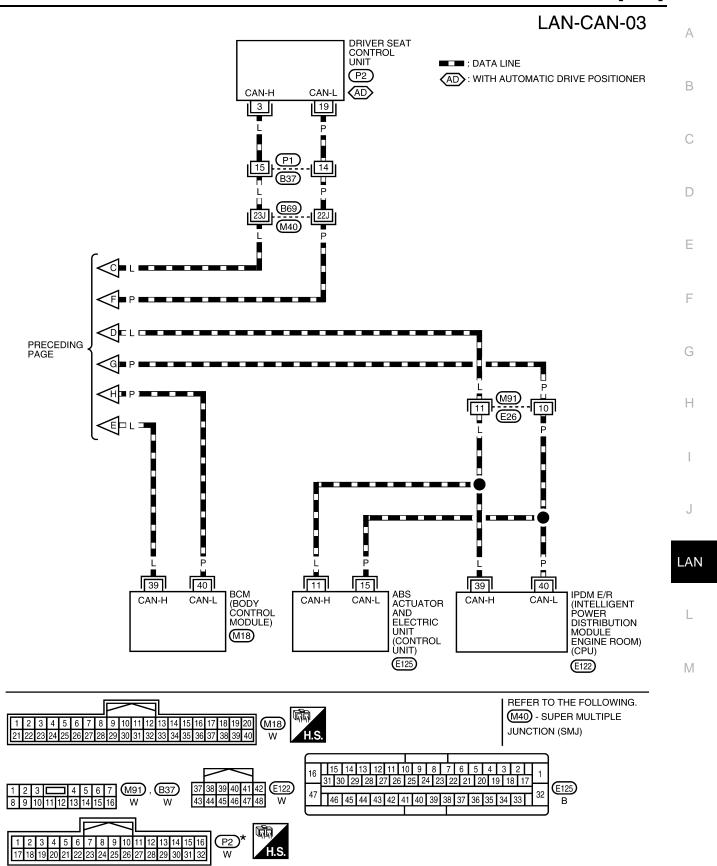
REFER TO THE FOLLOWING.
(M31) - SUPER MULTIPLE
JUNCTION (SMJ)



Revision: February 2007

LAN-CAN-02





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

BKWA0662E

CAN Communication Unit

UKS000NV

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

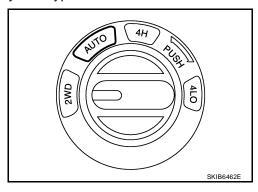
| Body type | | Wagon | | | | | | | | |
|------------------------------|--------|----------------------------------|--------|--------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Axle | | 2WD 4WD(Part time) 4WD(All-mode) | | | | | | | | |
| Engine | | | | | VQ4 | 10DE | | | | |
| Transmission | | | | | А | /T | | | | |
| Brake control | | VDC | | | | | | | | |
| Automatic air conditioner | | × | × | × | | × | | × | × | × |
| Automatic drive positioner | | | × | × | | | | | × | × |
| Navigation system | | | | × | | | | | | × |
| CAN system type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| CAN system trouble diagnosis | LAN-41 | <u>LAN-55</u> | LAN-69 | LAN-84 | <u>LAN-</u> <u>101</u> | <u>LAN-</u> <u>116</u> | <u>LAN-</u> <u>131</u> | <u>LAN-</u> <u>146</u> | <u>LAN-</u> <u>161</u> | <u>LAN-</u> <u>177</u> |

^{×:} Applicable

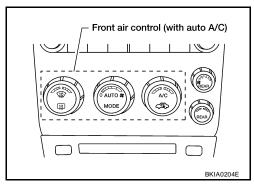
NOTE:

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

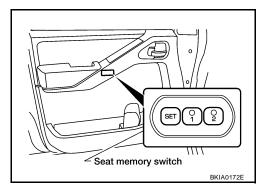
With All-mode 4WD



• With automatic air conditioner



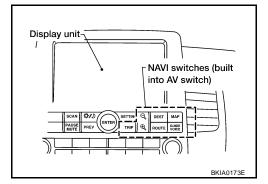
• With automatic drive positioner



CAN COMMUNICATION

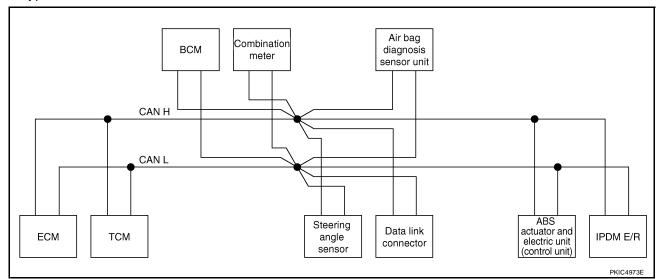
[CAN]

With navigation system

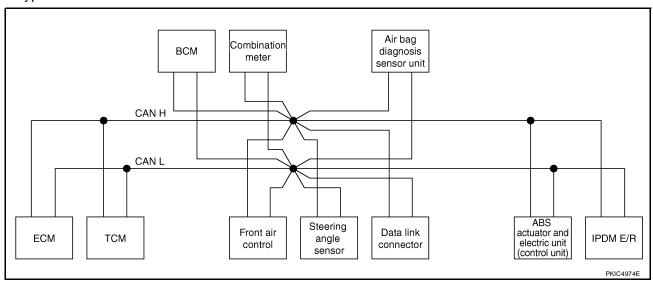


TYPE 1/TYPE 2/TYPE 3/TYPE 4 System diagram

• Type 1



Type 2



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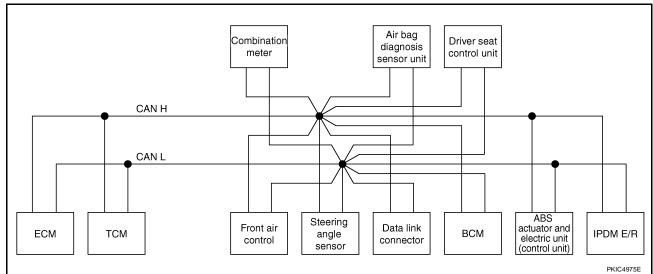
I

J

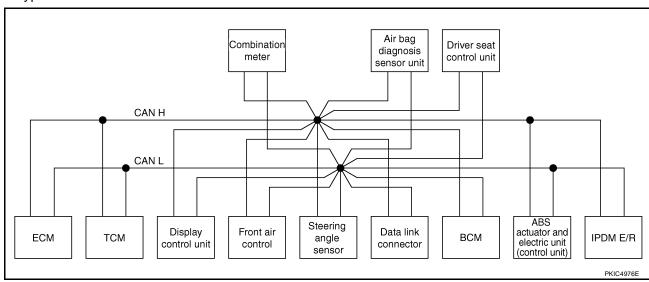
LAN

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Type 4



Input/output signal chart

T: Transmit R: Receive

| Signals | ECM | TCM | Dis- play control unit ^{*1} | Front air con- trol *2 | Steer- ing angle sensor | ВСМ | Combi- nation meter | Driver seat control unit*3 | ABS actuator and electric unit (control unit) | IPDM E/R |
|-----------------------------------|-----|-----|---|------------------------------|----------------------------------|-----|---------------------------|-------------------------------------|---|-------------|
| A/C compressor request signal | Т | | | | | | | | | R |
| Accelerator pedal position signal | Т | R | | | | | | | R | |
| ASCD CRUISE lamp signal | Т | | | | | | R | | | |
| ASCD OD cancel request | Т | R | | | | | | | | |
| ASCD operation signal | Т | R | | | | | | | | |
| ASCD SET lamp signal | Т | | | | | | R | | | |
| Battery voltage signal | Т | R | | | | | | | | |
| Closed throttle position signal | Т | R | | | | | | | | |
| Cooling fan speed request signal | Т | | | | | | | | | R |

CAN COMMUNICATION

[CAN]

| Signals | ECM | ТСМ | Dis- play control unit ^{*1} | Front air con- trol *2 | Steer- ing angle sensor | всм | Combination meter | Driver seat control unit ^{*3} | ABS actuator and electric unit (control unit) | IPDM E/R | <i>F</i> |
|---------------------------------------|-----|-----|---|------------------------------|----------------------------------|--------|-------------------|---|---|-------------|----------|
| Engine coolant temperature signal | Т | | | R | | | R | | | | (|
| Engine speed signal | Т | R | R | R | | | R | | R | | |
| Engine status signal | Т | | | | | R | | | | | Г |
| Fuel consumption monitor signal | Т | | R | | | | R T | | | | L |
| Malfunction indicator lamp signal | Т | | | | | | R | | | | |
| Power generation command value signal | Т | | | | | | | | | R | |
| Wide open throttle position signal | Т | R | | | | | | | | | |
| A/T fluid temperature sensor signal | | Т | | | | | R | | | | |
| A/T position indicator lamp signal | | Т | | | | | R | | | | |
| A/T self-diagnosis signal | R | Т | | | | | | | | | (|
| O/D OFF indicator signal | | Т | | | | | R | | | | |
| Output shaft revolution signal | R | Т | | | | | | | | | |
| P range signal | | Т | | | | | R | R | R | | |
| Turbine revolution signal | R | Т | | | | | | | | | |
| A/C switch/indicator signal | | | T R | R T | | | | | | | |
| System setting signal | | | T R | | | R T | | R T | | | , |
| Steering angle sensor signal | | | | | Т | | | | R | | |
| A/C switch signal | R | | | R | | Т | | | | | L |
| Blower fan motor switch signal | R | | | | | Т | | | | | |
| Buzzer output signal | | | | | | Т | R | | | | |
| Day time running light request signal | | | | | | Т | R | | | R | |
| Door switch signal | | | R | | | Т | R | R | | R | |
| Front fog light request signal | | | | | | Т | R | | | R | ľ |
| Front wiper request signal | | | | | | Т | | | | R | |
| High beam request signal | | | | | | Т | R | | | R | |
| Horn chirp signal | | | | | | Т | | | | R | |
| Ignition switch signal | | | | | | Т | | R | | | |
| Key fob door unlock signal | | | | | | Т | | R | | | |
| Key fob ID signal | | | | | | Т | | R | | | |
| Key switch signal | | | | | | Т | | R | | | |
| Low beam request signal | | | | | | Т | | | | R | |
| Position light request signal | | | | | | Т | R | | | R | |
| Rear window defogger switch signal | | | | R | | Т | | | | R | |
| Sleep wake up signal | | | | | | Т | R | R | | R | |
| Theft warning horn request signal | | | | | | Т | | | | R | |
| Tire pressure data signal | | | R | | | Т | | | | | |

LAN-33 Revision: February 2007 2006 Pathfinder

| Signals | ECM | ТСМ | Dis- play control unit ^{*1} | Front air con- trol *2 | Steer- ing angle sensor | всм | Combination meter | Driver seat control unit ^{*3} | ABS actuator and electric unit (control unit) | IPDM E/R |
|-------------------------------------|-----|-----|---|------------------------------|----------------------------------|-----|-------------------|---|---|-------------|
| Tire pressure signal | | | R | | | Т | R | | | |
| Turn indicator signal | | | | | | Т | R | | | |
| 1st position switch signal | | R | | | | | Т | | | |
| Distance to empty signal | | | R | | | | Т | | | |
| Fuel level low warning signal | | | R | | | | Т | | | |
| Fuel level sensor signal | R | | | | | | Т | | | |
| Overdrive control switch signal | | R | | | | | Т | | | |
| Seat belt buckle switch signal | | | | | | R | Т | | | |
| Stop lamp switch signal | | R | | | | | Т | | | |
| Vehicle speed signal | | | | R | | | R | | Т | |
| verildie speed signal | R | R | R | R | | R | Т | R | | |
| ABS warning lamp signal | | | | | | | R | | Т | |
| Brake warning lamp signal | | | | | | | R | | Т | |
| SLIP indicator lamp signal | | | | | | | R | | Т | |
| VDC OFF indicator lamp signal | | | | | | | R | | Т | |
| Front wiper stop position signal | | | | | | R | | | | Т |
| High beam status signal | R | | | | | | | | | Т |
| Low beam status signal | R | | | | | | | | | Т |
| Rear window defogger control signal | R | | | R | | | | | | Т |

^{• *1:} with navigation system model only.

NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

^{• *2:} with auto air conditioner model only.

^{• *3:} with automatic drive positioner model only.

[CAN]

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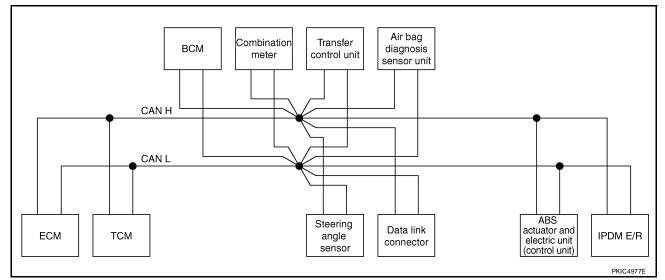
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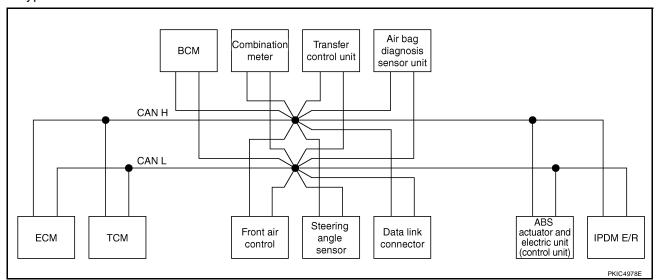
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TYPE 5/TYPE 6 System diagram

Type 5



Type 6



Input/output signal chart

| T: Transmit R: | Receive |
|----------------|---------|
|----------------|---------|

| Signals | ECM | TCM | Front air con- trol [*] | Steer- ing angle sensor | ВСМ | Combi- nation meter | Trans- fer con- trol unit | ABS actua- tor and electric unit (control unit) | IPDM E/R |
|-----------------------------------|-----|-----|--|----------------------------------|-----|---------------------------|---------------------------------|---|-------------|
| A/C compressor request signal | Т | | | | | | | | R |
| Accelerator pedal position signal | Т | R | | | | | | R | |
| ASCD CRUISE lamp signal | Т | | | | | R | | | |
| ASCD OD cancel request | Т | R | | | | | | | |
| ASCD operation signal | Т | R | | | | | | | |
| ASCD SET lamp signal | Т | | | | | R | | | |
| Battery voltage signal | Т | R | | | | | | | |
| Closed throttle position signal | Т | R | | | | | | | |

| | | | | | | | | | [CAN] |
|---------------------------------------|-----|-----|--|----------------------------------|-----|---------------------------|---------------------------------|---|-------------|
| Signals | ECM | TCM | Front air con- trol [*] | Steer- ing angle sensor | всм | Combi- nation meter | Trans- fer con- trol unit | ABS actua- tor and electric unit (control unit) | IPDM E/R |
| Cooling fan speed request signal | Т | | | | | | | | R |
| Engine coolant temperature signal | Т | | R | | | R | | | |
| Engine speed signal | Т | R | R | | | R | R | R | |
| Engine status signal | Т | | | | R | | | | |
| Fuel consumption monitor signal | Т | | | | | R | | | |
| Malfunction indicator lamp signal | Т | | | | | R | | | |
| Power generation command value signal | Т | | | | | | | | R |
| Wide open throttle position signal | Т | R | | | | | | | |
| A/T fluid temperature sensor signal | | Т | | | | R | | | |
| A/T position indicator lamp signal | | Т | | | | R | R | | |
| A/T self-diagnosis signal | R | Т | | | | | | | |
| O/D OFF indicator signal | | Т | | | | R | | | |
| Output shaft revolution signal | R | Т | | | | | R | | |
| P range signal | | Т | | | | R | | R | |
| Turbine revolution signal | R | Т | | | | | | | |
| Steering angle sensor signal | | | | Т | | | | R | |
| A/C switch signal | R | | R | | Т | | | | |
| Blower fan motor switch signal | R | | | | Т | | | | |
| Buzzer output signal | | | | | Т | R | | | |
| Day time running light request signal | | | | | Т | R | | | R |
| Door switch signal | | | | | Т | R | | | R |
| Front fog light request signal | | | | | Т | R | | | R |
| Front wiper request signal | | | | | Т | | | | R |
| High beam request signal | | | | | Т | R | | | R |
| Horn chirp signal | | | | | Т | | | | R |
| Ignition switch signal | | | | | Т | | | | R |
| Low beam request signal | | | | | Т | | | | R |
| Position light request signal | | | | | Т | R | | | R |
| Rear window defogger switch signal | | | R | | Т | | | | R |
| Sleep wake up signal | | | | | Т | R | | | R |
| Theft warning horn request signal | | | | | Т | | | | R |
| Tire pressure signal | | | | | Т | R | | | |
| Turn indicator signal | | | | | Т | R | | | |
| 1st position switch signal | | R | | | | Т | | | |
| Overdrive control switch signal | | R | | | | Т | | | |
| Seat belt buckle switch signal | | | | | R | Т | | | |
| Stop lamp switch signal | | R | | | | Т | R | Т | |
| Vehicle speed signal | | | R | | | R | R | T | |
| op ood oignal | R | R | R | | R | Т | | | |

CAN COMMUNICATION

[CAN]

| Signals | ECM | ТСМ | Front air con- trol [*] | Steer- ing angle sensor | всм | Combi- nation meter | Trans- fer con- trol unit | ABS actua- tor and electric unit (control unit) | IPDM E/R |
|-------------------------------------|-----|-----|--|----------------------------------|-----|---------------------------|---------------------------------|---|-------------|
| Fuel level sensor signal | R | | | | | Т | | | |
| ABS warning lamp signal | | | | | | R | | Т | |
| Brake warning lamp signal | | | | | | R | | Т | |
| HDC indicator lamp signal | | | | | | R | | Т | |
| SLIP indicator lamp signal | | | | | | R | | Т | |
| VDC OFF indicator lamp signal | | | | | | R | | Т | |
| Front wiper stop position signal | | | | | R | | | | T |
| High beam status signal | R | | | | | | | | Т |
| Low beam status signal | R | | | | | | | | Т |
| Rear window defogger control signal | R | | R | | | | | | Т |

^{*:} with auto air conditioner model only.

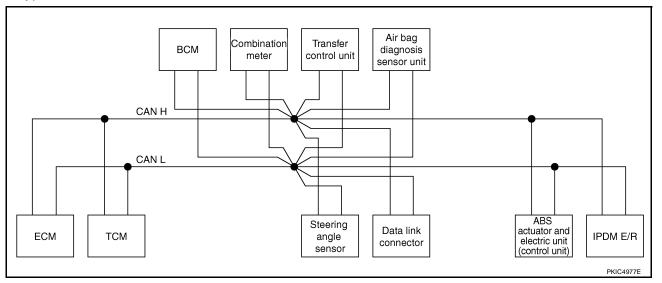
NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

TYPE 7/TYPE 8/TYPE 9/TYPE 10

System diagram

Type 7



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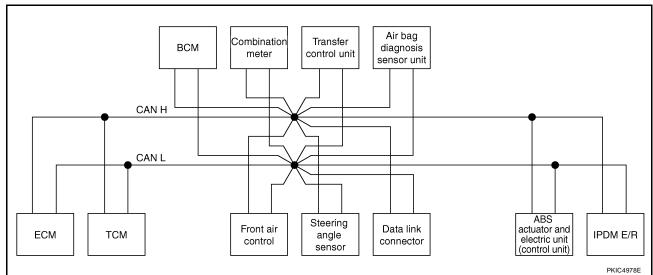
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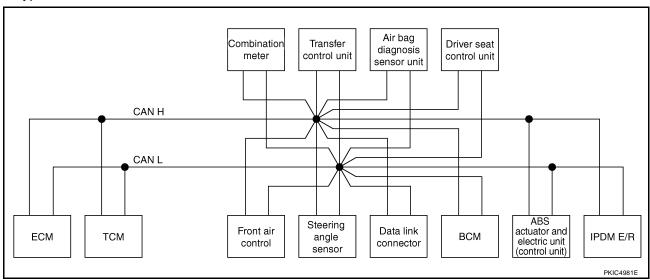
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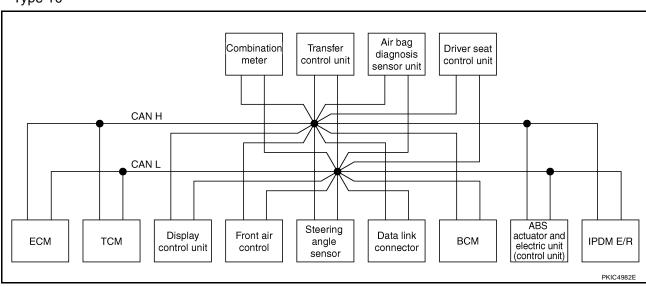




Type 9



Type 10



CAN COMMUNICATION

[CAN]

| Input/outpu | t signal | chart |
|-------------|----------|-------|
|-------------|----------|-------|

| | | | | | | | | | | ABS | |
|---------------------------------------|-----|-----|--|--|---------------------------------------|-----|--------------------------------|---------------------------------------|--|---|-------------|
| Signals | ECM | ТСМ | Dis- play con- trol unit ^{*1} | Front air con- trol ^{*2} | Steer- ing angle sen- sor | всм | Com- bina- tion meter | Trans- fer con- trol unit | Driver seat con- trol unit ^{*3} | actua- tor and elec- tric unit (con- trol unit) | IPDM E/R |
| A/C compressor request signal | Т | | | | | | | | | | R |
| Accelerator pedal position signal | Т | R | | | | | | R | | R | |
| ASCD CRUISE lamp signal | Т | | | | | | R | | | | |
| ASCD OD cancel request | T | R | | | | | | | | | |
| ASCD operation signal | Т | R | | | | | | | | | |
| ASCD SET lamp signal | Т | | | | | | R | | | | |
| Battery voltage signal | Т | R | | | | | | | | | |
| Closed throttle position signal | Т | R | | | | | | | | | |
| Cooling fan speed request signal | Т | | | | | | | | | | R |
| Engine coolant temperature signal | Т | | | R | | | R | | | | |
| Engine speed signal | Т | R | R | R | | | R | R | | R | |
| Engine status signal | Т | | | | | R | | | | | |
| Fuel consumption monitor signal | Т | | | | | | R | | | | |
| der consumption monitor signal | | | R | | | | Т | | | | |
| Malfunction indicator lamp signal | T | | | | | | R | | | | |
| Power generation command value signal | Т | | | | | | | | | | R |
| Wide open throttle position signal | T | R | | | | | | | | | |
| A/T fluid temperature sensor signal | | Т | | | | | R | | | | |
| A/T position indicator lamp signal | | Т | | | | | R | R | | | |
| VT self-diagnosis signal | R | Т | | | | | | | | | |
| D/D OFF indicator signal | | Т | | | | | R | | | | |
| Output shaft revolution signal | R | Т | | | | | | R | | | |
| range signal | | Т | | | | | R | | R | R | |
| Turbine revolution signal | R | Т | | | | | | | | | |
| VC switch/indicator signal | | | Т | R | | | | | | | |
| A/C switch/indicator signal | | | R | Т | | | | | | | |
| System setting signal | | | Т | | | R | | | R | | |
| System setting signal | | | R | | | Т | | | Т | | |
| Steering angle sensor signal | | | | | Т | | | | | R | |
| A/C switch signal | R | | | R | | Т | | | | | |
| Blower fan motor switch signal | R | | | | | Т | | | | | |
| Buzzer output signal | | | | | | Т | R | | | | |
| Day time running light request signal | | | | | | Т | R | | | | R |
| Door switch signal | | | R | | | Т | R | | R | | R |
| Front fog light request signal | | | | | | Т | R | | | | R |
| Front wiper request signal | | | | | | Т | | | | | R |

LAN-39 Revision: February 2007 2006 Pathfinder

| Signals | ECM | тсм | Dis- play con- trol unit ^{*1} | Front air con- trol ^{*2} | Steer- ing angle sen- sor | всм | Com- bina- tion meter | Trans- fer con- trol unit | Driver seat con- trol unit*3 | ABS actuator and electric unit (control unit) | IPDM E/R |
|-------------------------------------|-----|-----|--|--|---------------------------------------|-----|--------------------------------|---------------------------------------|--|---|-------------|
| High beam request signal | | | | | | Т | R | | | | R |
| Horn chirp signal | | | | | | Т | | | | | R |
| Ignition switch signal | | | | | | Т | | | R | | |
| Key fob door unlock signal | | | | | | Т | | | R | | |
| Key fob ID signal | | | | | | Т | | | R | | |
| Key switch signal | | | | | | Т | | | R | | |
| Low beam request signal | | | | | | Т | | | | | R |
| Position light request signal | | | | | | Т | R | | | | R |
| Rear window defogger switch signal | | | | R | | Т | | | | | R |
| Sleep wake up signal | | | | | | Т | R | | R | | R |
| Theft warning horn request signal | | | | | | Т | | | | | R |
| Tire pressure data signal | | | R | | | Т | | | | | |
| Tire pressure signal | | | R | | | Т | R | | | | |
| Turn indicator signal | | | | | | Т | R | | | | |
| 1st position switch signal | | R | | | | | Т | | | | |
| Distance to empty signal | | | R | | | | Т | | | | |
| Fuel level low warning signal | | | R | | | | Т | | | | |
| Fuel level sensor signal | R | | | | | | Т | | | | |
| Overdrive control switch signal | | R | | | | | Т | | | | |
| Seat belt buckle switch signal | | | | | | R | Т | | | | |
| Stop lamp switch signal | | R | | | | | Т | | | | |
| | | | | R | | | R | R | | Т | |
| Vehicle speed signal | R | R | R | R | | R | Т | | R | | |
| ABS warning lamp signal | | | | | | | R | | | Т | |
| Brake warning lamp signal | | | | | | | R | | | Т | |
| SLIP indicator lamp signal | | | | | | | R | | | Т | |
| VDC OFF indicator lamp signal | | | | | | | R | | | Т | |
| Front wiper stop position signal | | | | | | R | | | | | Т |
| High beam status signal | R | | | | | | | | | | Т |
| Low beam status signal | R | | | | | | | | | | Т |
| Rear window defogger control signal | R | | | R | | | | | | | Т |

 ^{*1:} with navigation system model only.

NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

^{• *2:} with auto air conditioner model only.

^{• *3:} with automatic drive positioner model only.

| CAN SYSTEM (TYPE 1) | | |
|--|-----------|---|
| ` , | [CAN] | |
| CAN SYSTEM (TYPE 1) | PFP:23710 | |
| Component Parts and Harness Connector Location | UKS0053A | 1 |
| Refer to LAN-25, "Component Parts and Harness Connector Location". | | |
| Schematic | UK\$0053B | 3 |
| Refer to LAN-26, "Schematic" . | | |
| Wiring Diagram — CAN — | UKS0053C |) |
| Refer to LAN-27, "Wiring Diagram — CAN —" . | | |
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[CAN]

Check Sheet

NOTE:

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

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|-------------|------------------|----------------------|-----------------------|---------------------------------|-----------|---------|-------------|---------------|-----------------------|-------------|-----------------------------|-----------------------------|
| SELECT SYST | -CM agraga | | | | | | eive diagn | osis | | | CELE DIA | G RESULTS |
| SELECT SYST | Elvi screen | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | | |
| NGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | (U1000) | T CAN COMM CIRCU (U1001) |
| /т | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUI (U1000) | T – |
| СМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| IETER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUI (U1000) | _ |
| BS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUI (U1000) | T – |
| PDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | - | _ | _ | CAN COMM CIRCUI (U1000) | _ |
| | | | | | | | | | | | | |
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| Attach copy of ENGINE SELF-DIAG RESULTS | Attach copy of A/T SELF-DIAG RESULTS | Attach copy of BCM SELF-DIAG RESULTS |
|---|---|--|
| Attach copy of 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 BCM CAN DIAG SUPPORT MNTR |
| Attach copy of METER CAN DIAG SUPPORT MNTR | Attach copy of ABS CAN DIAG SUPPORT MNTR | Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR |

Revision: February 2007 LAN-43 2006 Pathfinder

CHECK SHEET RESULTS (EXAMPLE)

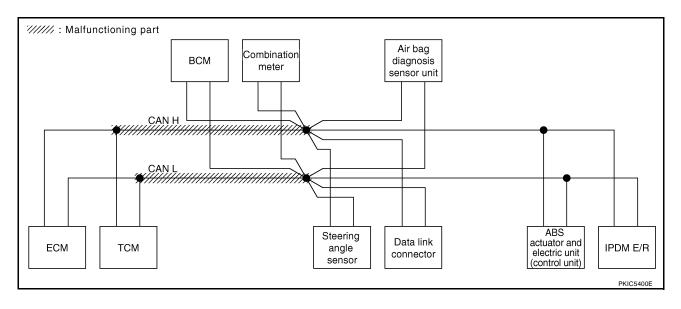
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.

| | | | | | CAN DIA | G SUPPOF | RT MNTR | | | | | |
|---------------|------------------|----------------------|-----------------------|--------------|----------------|----------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | screen | 1 | T | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| 012201 01012 | 00.00 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SEE BING | TILOGETO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | NKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNK WN | UNK W N | _ | CAN COMM CIRCUIT (U 100) | _ |
| всм | No indication | NG | UNKWN | NNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNK WN | ∩ NK WN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNK WN | UNK WN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNK WN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 000) | _ |



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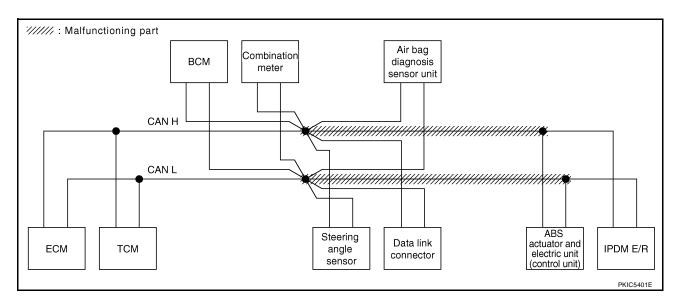
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|---------------|-----------------|----------------------|-----------------------|----------------|---------|----------------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | A screen | latital | T | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| 011101 01011 | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | 0221 31710 | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | n uk wu | _ | CAN COMM CIRCUIT (UV00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNK WN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNK W N | UNK WN | CAN COMM CIRCUIT (U 00) | _ |
| ABS | _ | NG | UNKWN | ∩ NK WN | UNK WN | nuk w u | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | | _ |



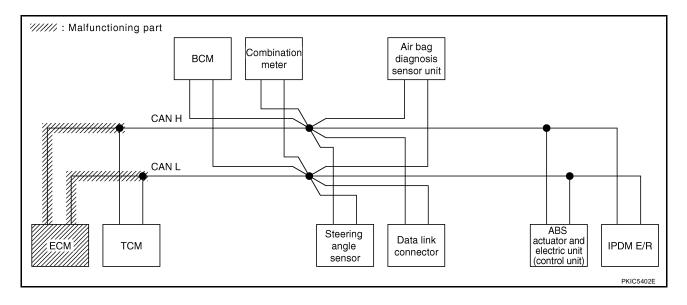
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Case 3
Check ECM circuit. Refer to <u>LAN-197</u>, "ECM Circuit Inspection" .

| AT — NG UNKWN UNKWN — — UNKWN UNKWN — CAN COMM CIRCUIT (U 000) — BCM NO indication NG UNKWN UNKWN — UNKWN — UNKWN — UNKWN — UNKWN — UNKWN — UNKWN UNKWN UNKWN — UNKWN | | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|--|---------------|----------|--------|--------------|----------------|---------|----------|-------------|--------|----------------|--------|-----------------------------|--------------------------|
| No No Indication Indicat | SELECT SYSTEM | 1 screen | 1141-1 | T | | | Red | ceive diagn | osis | | | SELE-DIAG | RESULTS |
| AT — — ONEWN — ONEWN — ONEWN — ONEWN ONEWN — ONEWN ONEWN ONEWN ONEWN — ONEWN ONEWN <t< td=""><td></td><td></td><td></td><td></td><td>ECM</td><td>тсм</td><td>STRG</td><td></td><td></td><td></td><td></td><td>3221 31/10</td><td></td></t<> | | | | | ECM | тсм | STRG | | | | | 3221 31/10 | |
| BCM | ENGINE | _ | _ | NNKWN | _ | UNK WN | _ | UNK WN | UNK WN | UNK W N | UNK WN | | CAN COMM CIRCU (UV01) |
| METER | A/T | _ | NG | UNKWN | UNK WN | _ | _ | _ | UNKWN | UNKWN | _ | | _ |
| indication — UNKWN UNKWN — UNKWN — UNKWN UNKWN (UV00) — | BCM | | NG | UNKWN | UNK WN | _ | _ | _ | UNKWN | _ | UNKWN | | _ |
| | METER | | _ | UNKWN | UNK WN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | | _ |
| ABS - NG UNKWN UNKWN UNKWN CAN COMM CIRCUIT - (UV.00) | ABS | _ | NG | UNKWN | ∩ NK WN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | - |
| IPDM E/R No indication - UNKWN UNKWN UNKWN CAN COMM CIRCUIT (UV00) | IPDM E/R | | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | | _ |



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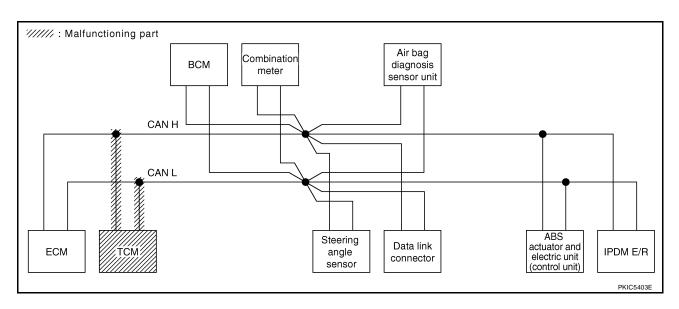
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Case 4 Check TCM circuit. Refer to <u>LAN-197</u>, "TCM Circuit Inspection" .

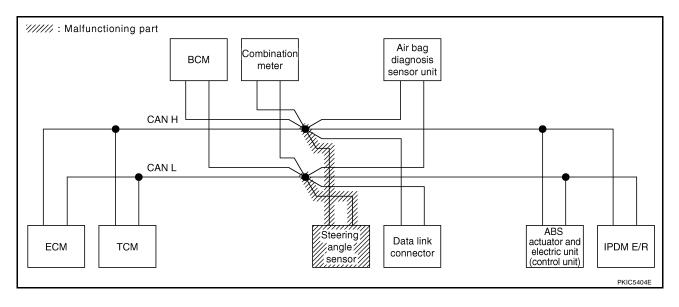
| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|--------------|------------------|----------------------|-----------------------|----------------|----------------|---------|-------------|---------------|-----------------|-------------|-------------------------------------|---------------------------|
| SELECT SYSTE | M screen | 1141-1 | T | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| 022201 01012 | | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI BINC | TILOGETO |
| ENGINE | _ | _ | UNKWN | _ | UNK W N | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (UV00) | CAN COMM CIRCUI (UV01) |
| A/T | _ | NG | UNKWN | nuk w u | _ | _ | _ | UNK WN | UNK W N | _ | CAN COMM CIRCUIT (UV00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | nukwu | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | ∩ NK WN | UNKWN | _ | _ | _ | - | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | |



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Case 5
Check steering angle sensor circuit. Refer to <u>LAN-199</u>, "Steering Angle Sensor Circuit Inspection" .

| SELECT SYSTEM screen | | | | | | CAN DIA | G SUPPOI | RT MNTR | | | | | |
|---|---------------|----------|------------|-----------|-------|---------|----------|-------------|-------|-------|-------|------------|------------|
| ENGINE | SELECT SYSTEM | 1 screen | lastat a l | Tueseesit | | | Red | ceive diagn | osis | | | SELE-DIAG | RESULTS |
| AT | | | | | ECM | тсм | STRG | | | | | 0221 51/10 | . 11200210 |
| No No Indication No | ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | | |
| METER | A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | | _ |
| METER Indication UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UU1000) | BCM | | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | | _ |
| CAN COMM CIRCUIT | METER | | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | | _ |
| ABS | ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | | _ |
| IPDM E/R No indication — UNKWN — — UNKWN — — — CAN COMM CIRCUIT (U1000) — | IPDM E/R | | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | 1 | | _ |



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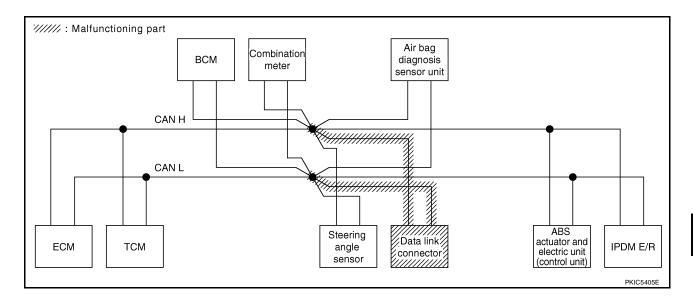
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Case 6

Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

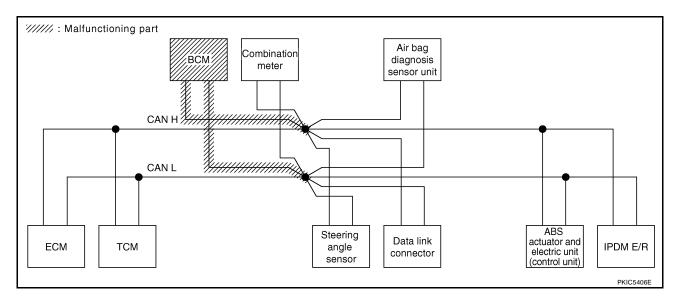
| ACT _ NG LINICAN LINICAN LINICAN LINICAN _ CAN COMM CIRCUIT | | |
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| engine — Unkwn — Unkwn — Unkwn Unkwn Unkwn Unkwn Unkwn Unkwn Unkwn Can comm circuit Can co | | |
| ENGINE - UNKWN - UNKWN U | | |
| | MM CIRCL J1001) | |
| WI NG UNKWN UNKWN — UNKWN UNKWN — (U1000) | _ | |
| BCM No NG UNKWN UNKWN UNKWN - UNKWN CAN COMM CIRCUIT (U1000) | _ | |
| METER NO - UNKWN UNKWN UNKWN - UNKWN UNKWN CAN COMM CIRCUIT (U1000) | _ | |
| ABS - NG UNKWN UNKWN UNKWN CAN COMM CIRCUIT (U1000) | _ | |
| IPDM E/R Individion — UNKWN UNKWN — — UNKWN — — — CAN COMM CIRCUIT (U1000) | _ | |



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Case 7
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

| SELECT SYSTEM scr | | | | | | | | | | | | |
|-------------------|----------------|---------|-----------------------|-------|-------|-------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| | een l | Initial | Transmit | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| | | | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI BING | THEODERO |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UV01) |
| A/T | - | NG | UNKWN | UNKWN | - | _ | _ | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | - |
| BCM | Ng detion | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER ind | No dication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | - | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No dication | _ | UNKWN | UNKWN | _ | _ | UNKWN | 1 | _ | _ | CAN COMM CIRCUIT (U 00) | _ |



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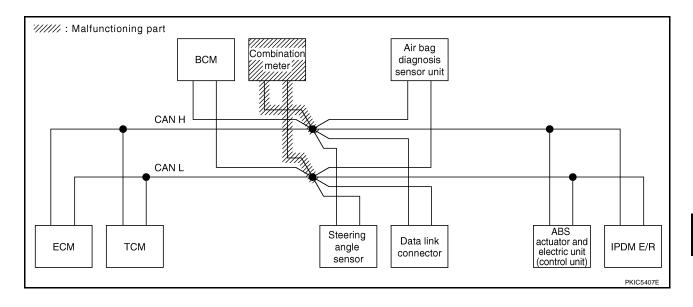
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Case 8
Check combination meter circuit. Refer to <u>LAN-200</u>, "Combination Meter Circuit Inspection".

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|---------------|-----------------|----------------------|-----------------------|-------|---------|---------|-------------|---------------|-----------------|-------------|-----------------------------|--------------------------|
| SELECT SYSTEM | A screen | | | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| OLLLOT OTOTEK | il dolecti | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNK WN | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNIWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | - | _ | - | CAN COMM CIRCUIT (U1000) | - |

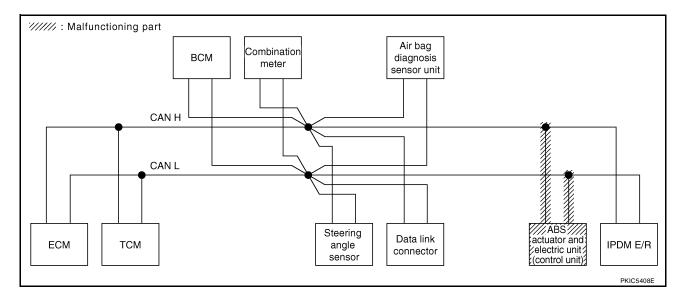


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Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

| | | | | | CAN DIA | G SUPPOI | RT MNTR | | | | | |
|---------------|------------------|---------|-----------|--------|----------------|----------|-------------|---------------|-----------------|-------------|-----------------------------|--------------------------|
| SELECT SYSTEM | 1 screen | Initial | Transmit | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| 022207 07072 | | | diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | 3221 31/10 | . 1123213 |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U 00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (UV00) | - |
| ABS | _ | ₩. | UNK WN | UNK WN | UNK W N | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (UV00) | - |
| PDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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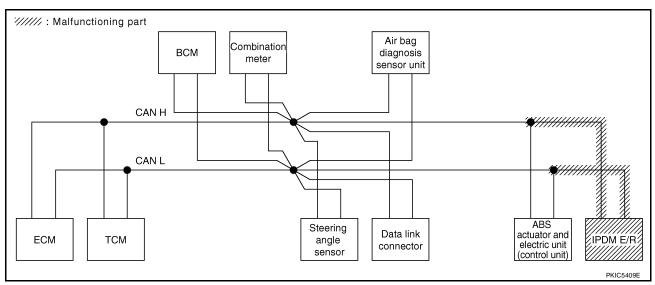
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Case 10

Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|--------------|------------------|----------------------|-----------------------|-------|---------|----------|-------------|---------------|-----------------|----------------|------------------------------|----------------------------|
| SELECT SYSTE | M screen | 1 - 141 - 1 | T | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| 022201 01012 | W corcon | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI BINC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNK VN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNK W N | CAN COMM CIRCUIT (U 1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | - | ı | _ | 1 | CAN COMM CIRCUIT (U1000) | ı |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |
| | indi-ation | | | | l | | | | l | | (0 \$000) | |



Case 11

Check CAN communication circuit. Refer to LAN-203, "CAN Communication Circuit Inspection".

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|--------------|------------------|---------|-----------|--------|---------|---------|-------------|----------------|-----------------|-------------|--------------------------------------|----------------------------|
| SELECT SYSTI | FM screen | Initial | Transmit | | | Red | ceive diagn | osis | | | SELE-DIAG | RESULTS |
| | | | diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | 0221 51/10 | . 1120210 |
| ENGINE | _ | _ | UNKWN | _ | UNK WN | _ | UNK WN | NNA MN | ∩ NK WN | UNKWN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | nukwu | _ | _ | _ | ∩ NR MN | ∩ N MN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | Ng ind ation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indivation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | ₩ | UNK WN | UNK WN | UNK WN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U V 000) | _ |
| | • | | | | | • | | | | | | |

Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection".

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|---------------|---------------|----------------------|-----------------------|-------|----------------|---------|-------------|---------------|-----------------|-------------|-----------------------------|--------------------------|
| SELECT SYSTEM | 1 screen | 1141-1 | T | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| 011101011 | | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | 3221 31/10 | |
| ENGINE | _ | _ | UNKWN | _ | n uk wu | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U 00) | CAN COMM CIRCU (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNK V N | _ | UNKWN | _ | UNK W N | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|--------------|------------------|----------------------|-----------------------|-------|---------|---------|-------------|---------------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTE | M screen | 1141-1 | T | | | Re | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| 022201 01012 | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | GEE! B#10 | THEODERO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | _ | _ | _ | _ | _ | UNKWN | _ | CAN COMM CIRCUIT (U 00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | _ | UNKWN | _ | _ | _ | _ | _ | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | |

| CAN SYSIEM (IYPE 2) | |
|--|-----------|
| | [CAN] |
| CAN SYSTEM (TYPE 2) | PFP:23710 |
| Component Parts and Harness Connector Location | UK\$0053E |
| Refer to LAN-25, "Component Parts and Harness Connector Location". | |
| Schematic | UK\$0053F |
| Refer to LAN-26, "Schematic" . | |
| Wiring Diagram — CAN — | UKS0053G |
| Refer to LAN-27, "Wiring Diagram — CAN —". | |
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Check Sheet

NOTE:

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

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|-------------|------------------|----------------------|-----------------------|---------------------------------|-----------|---------|-------------|---------------|-----------------------|-------------|-----------------------------|-----------------------------|
| SELECT SYST | -CM agraga | | | | | | eive diagn | osis | | | CELE DIA | G RESULTS |
| SELECT SYST | Elvi screen | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | | |
| NGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | (U1000) | T CAN COMM CIRCU (U1001) |
| /т | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUI (U1000) | T – |
| СМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| IETER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUI (U1000) | _ |
| BS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUI (U1000) | T – |
| PDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | - | _ | _ | CAN COMM CIRCUI (U1000) | _ |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| | | | SELE | ich copy CT SYS ⁻ | от ГЕМ | | | SEL | ttach cop .ECT SYS | STEM | | |
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| Attach copy of ENGINE SELF-DIAG RESULTS | Attach copy of A/T SELF-DIAG RESULTS | Attach copy of BCM SELF-DIAG RESULTS |
|---|--|--|
| Attach copy of 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 BCM CAN DIAG SUPPORT MNTR |
| Attach copy of METER CAN DIAG SUPPORT MNTR | Attach copy of ABS CAN DIAG SUPPORT MNTR | Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR |

CHECK SHEET RESULTS (EXAMPLE)

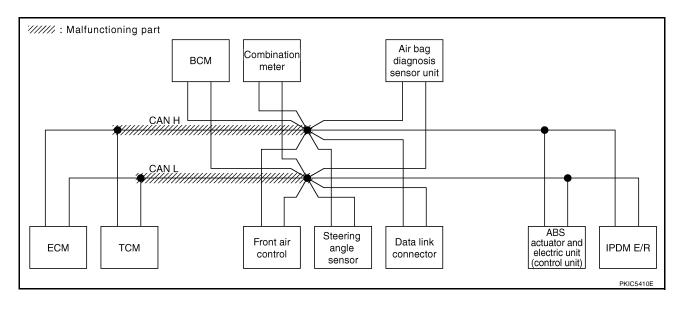
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.

| | | | | | CAN DIA | G SUPPOF | RT MNTR | | | | | |
|---------------|------------------|----------------------|-----------------------|--------------|----------------|----------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | screen | 1 | T | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| 012201 01012 | 00.00 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SEE BING | TILOGETO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | NKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNK WN | UNK W N | - | CAN COMM CIRCUIT (U 100) | _ |
| всм | No indication | NG | UNKWN | NNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNK WN | ∩ NK WN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNK WN | UNK WN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNK WN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 000) | _ |



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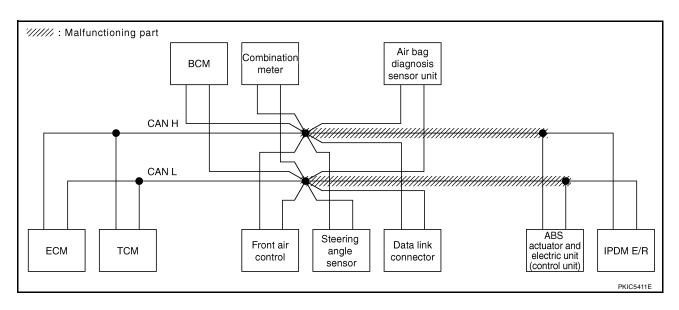
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

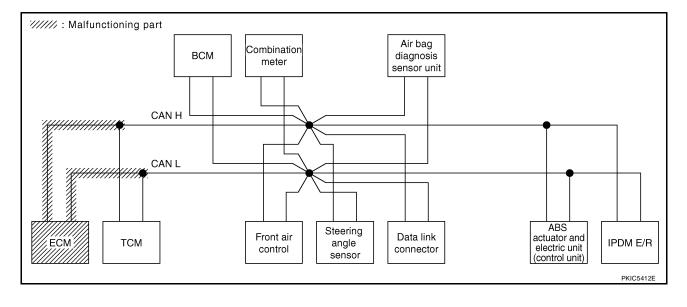
| AT | | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|---|---------------|----------|------------|----------|----------------|---------|----------|------------|-------|----------------|--------|-----------------------------|---------------------------|
| Majorial Majorial | SELECT SYSTEM | 1 screen | 1 - 10 - 1 | + | | | Red | eive diagn | osis | | | SELE-DIAG | RESULTS |
| A/T | 012201 010121 | | | | ECM | тсм | STRG | | | | | 0221 31110 | |
| BCM | ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNK WN | UNK WN | | CAN COMM CIRCUI (UN01) |
| Indication NG | A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | n uk wu | _ | | _ |
| indication | ВСМ | | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNK WN | | = |
| | METER | | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNK WN | | _ |
| | ABS | _ | NG | UNKWN | n uk wu | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R INDICATE UNKWN UNKWN — — UNKWN — — — CAN COMM CIRCUIT (UV00) — | IPDM E/R | | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | - | | - |



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Case 3
Check ECM circuit. Refer to <u>LAN-197</u>, "ECM Circuit Inspection" .

| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|---------------|------------------|---------|-----------------------|----------------|---------|----------|-------------|---------------|-----------------|-------------|-----------------------------|--------------------------|
| SELECT SYSTEM | screen | Initial | Tuonomia | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| | | | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | 322. 37.10 | |
| ENGINE | ı | _ | NNWN | ı | UNK WN | _ | UNKWN | UNKWN | UNKWN | UNK WN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCU (UV01) |
| A/T | ı | NG | UNKWN | UNK W N | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U 00) | _ |
| всм | No indication | NG | UNKWN | ∩ NK WN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNK WN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | - | NG | UNKWN | n uk wu | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 000) | - |



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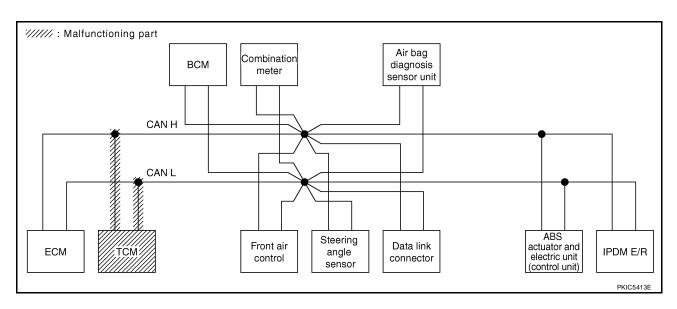
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Case 4 Check TCM circuit. Refer to <u>LAN-197</u>, "TCM Circuit Inspection" .

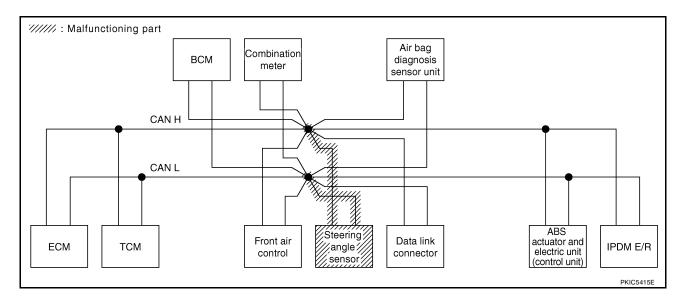
| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|--------------|------------------|----------------------|-----------------------|----------------|----------------|---------|-------------|---------------|-----------------|-------------|-------------------------------------|---------------------------|
| SELECT SYSTE | M screen | 1141-1 | T | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| 022201 01012 | | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI BINC | TILOGETO |
| ENGINE | _ | _ | UNKWN | _ | UNK W N | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (UV00) | CAN COMM CIRCUI (UV01) |
| A/T | _ | NG | UNKWN | nuk w u | _ | _ | _ | UNK WN | UNK W N | _ | CAN COMM CIRCUIT (UV00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | nukwu | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | ∩ NK WN | UNKWN | _ | _ | _ | - | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | |



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Case 5
Check steering angle sensor circuit. Refer to <u>LAN-199</u>, "Steering Angle Sensor Circuit Inspection" .

| ENGINE | | | RTMNTR | G SUPPOI | CAN DIA | | | | | |
|---|---|-------|-------------|----------|---------|-------|---------|--------|----------|----------------|
| TCM STRG BCM METER VDC/TCS IPDM F/R | nosis SELE-DIAG RESULTS | osis | ceive diagn | Red | | | | 1-20-1 | l screen | SELECT SYSTEM |
| ENGINE | METER VDC/TCS IPDM | | | STRG | тсм | ECM | | | 10010011 | OLLEGI GIGILIA |
| No | UNKWN UNKWN UNKWN CAN COMM CIRCUIT CAN COMM C (U1000) (U1001) | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | _ | _ | ENGINE |
| BCM indication NG UNKWN UNKWN — — UNKWN — UNKWN (U1000) — | | UNKWN | _ | _ | _ | UNKWN | UNKWN | NG | _ | A/T |
| No CAN COMM CIRCUIT | | UNKWN | _ | _ | _ | UNKWN | UNKWN | NG | 1 | BCM |
| METER indication - UNKWN UNKWN - UNKWN - UNKWN UNKWN (U1000) - | | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | _ | | METER |
| ABS - NG UNKWN UNKWN UNKWN CAN COMM CIRCUIT (U1000) - | | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | NG | _ | ABS |
| IPDM E/R No indication — UNKWN — — UNKWN — — — CAN COMM CIRCUIT (U1000) — | | _ | UNKWN | _ | _ | UNKWN | UNKWN | _ | | IPDM E/R |



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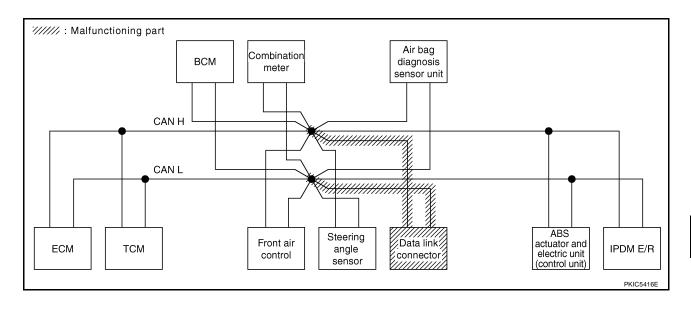
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Case 6

Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

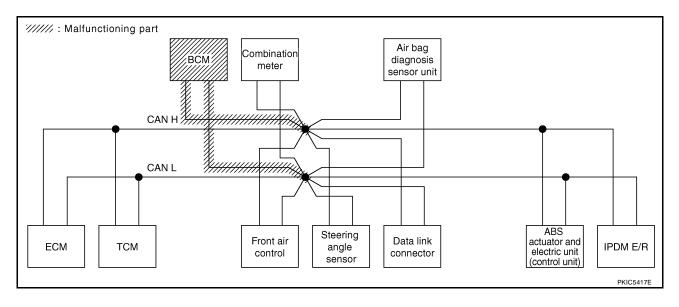
| ACT _ NG LINICAN LINICAN LINICAN LINICAN _ CAN COMM CIRCUIT | |
|--|--------------------|
| engine — Unkwn — Unkwn — Unkwn Unkwn Unkwn Unkwn Unkwn Unkwn Unkwn Can comm circuit Can co | |
| ENGINE - UNKWN - UNKWN U | |
| | MM CIRCL J1001) |
| WI NG UNKWN UNKWN — UNKWN UNKWN — (U1000) | _ |
| BCM No NG UNKWN UNKWN UNKWN - UNKWN CAN COMM CIRCUIT (U1000) | _ |
| METER NO - UNKWN UNKWN UNKWN - UNKWN UNKWN CAN COMM CIRCUIT (U1000) | _ |
| ABS - NG UNKWN UNKWN UNKWN CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R Individion — UNKWN UNKWN — — UNKWN — — — CAN COMM CIRCUIT (U1000) | _ |



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Case 7
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

| SELECT SYSTEM scr | | | | | | | | | | | | |
|-------------------|----------------|---------|-----------------------|-------|-------|-------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| | een l | Initial | Transmit | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| | | | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI BING | THEODERO |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UV01) |
| A/T | - | NG | UNKWN | UNKWN | - | _ | _ | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | - |
| BCM | Ng detion | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER ind | No dication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | - | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No dication | _ | UNKWN | UNKWN | _ | _ | UNKWN | 1 | _ | _ | CAN COMM CIRCUIT (U 00) | _ |



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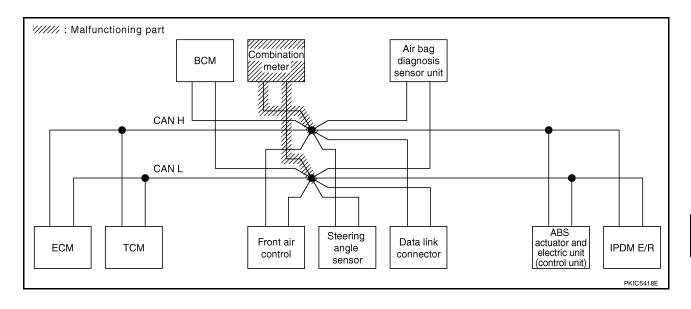
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Case 8
Check combination meter circuit. Refer to <u>LAN-200</u>, "Combination Meter Circuit Inspection".

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|---------------|------------------|----------------------|-----------------------|-------|---------|---------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | l screen | 1141-1 | T | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| 022201 01012. | 10010011 | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI BINC | TILOULIO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UV01) |
| A /T | _ | NG | UNKWN | UNKWN | _ | _ | _ | nnkwn | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | N/ ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| PDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

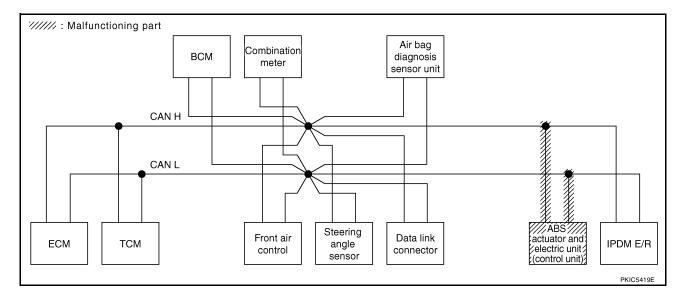


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Case 9

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

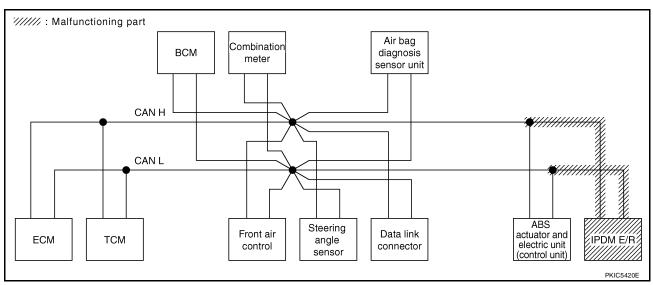
| | | | _ | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|---------------|------------------|----------------------|-----------------------|----------------|----------------|----------------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | 1 screen | 1 | T | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| OLLEGI GIGIEN | 10010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OEEI BINC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UV01) |
| ¥T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ЗСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | - | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | ₩ | nuk w u | ∩NK W N | ∩ NK WN | nuk w u | _ | _ | _ | _ | CAN COMM CIRCUIT (UN00) | _ |
| PDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



Case 10

Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection" .

| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|--------------|------------------|----------------------|-----------------------|-------|---------|----------|-------------|---------------|-----------------|----------------|------------------------------|----------------------------|
| SELECT SYSTE | M screen | 1 - 141 - 1 | T | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| 022201 01012 | W corcon | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI BINC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNK VN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNK W N | CAN COMM CIRCUIT (U 1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | - | ı | _ | 1 | CAN COMM CIRCUIT (U1000) | ı |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |
| | indi-ation | | | | l | | | | l | | (0 \$000) | |



Case 11

Check CAN communication circuit. Refer to LAN-203, "CAN Communication Circuit Inspection".

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|---------------|-----------------|---------|----------------|--------|---------|---------|---------------|----------------|-----------------|-------------|--------------------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | Transmit | | | Red | ceive diagn | osis | | | SELE-DIAG | RESULTS |
| | | | diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | 0221 5 1/10 | |
| ENGINE | _ | _ | ∩ NK WN | _ | UNK WN | _ | Ω N MN | ∩ NR MN | ∩ NK WN | UNKWN | CAN COMM CIRCUIT (U V 00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNK WN | _ | _ | _ | ∩ NR MN | ∩ NK WN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | Ng ind ation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | Ng ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | ₩ | UNK WN | UNK WN | UNK WN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U V 000) | _ |

Revision: February 2007 LAN-67 2006 Pathfinder

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Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection".

| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|---------------|---------------|----------------------|-----------------------|-------|----------------|----------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | 1 screen | 1141-1 | T | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| OLLEGY GYGYEN | 10010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OEEI BINC | TILOGETO |
| ENGINE | _ | _ | UNKWN | _ | UNK % N | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (UV00) | CAN COMM CIRCUI (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNK W N | UNKWN | CAN COMM CIRCUIT (UV00) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|--------------|------------------|----------------------|-----------------------|-------|---------|---------|-------------|---------------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTE | M screen | 1141-1 | T | | | Re | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| 022201 01012 | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | GEE! B#10 | THEODERO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | _ | _ | _ | _ | _ | UNKWN | _ | CAN COMM CIRCUIT (U 00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | _ | UNKWN | _ | _ | _ | _ | _ | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | |

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Check Sheet

NOTE:

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

| | | | | | CAN DIA | G SUPPOR | OT MNITO | | | | | | |
|-----------------|---------------|----------------------|-----------------------|--------------------|-----------|------------------------------|-------------|---------------|-----------------|-------------|-----------------------------|----------------------------|--|
| | | | | | OAN DIA | | eive diagn | osis | | | 0 | | |
| SELECT SYSTEM | screen | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SELF-DIAG RESULTS | | |
| ENGINE | _ | 1 | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (U1001) | |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ | |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | 1 | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ | |
| METER | No indication | - | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ | |
| AUTO DRIVE POS. | No indication | 1 | 1 | ı | UNKWN | _ | UNKWN | UNKWN | _ | ı | CAN COMM CIRCUIT (U1000) | _ | |
| ABS | ı | NG | UNKWN | UNKWN | UNKWN | UNKWN | 1 | ı | _ | ı | CAN COMM CIRCUIT (U1000) | _ | |
| IPDM E/R | No indication | ı | UNKWN | UNKWN | _ | _ | UNKWN | 1 | _ | ı | CAN COMM CIRCUIT (U1000) | _ | |
| | | | Atta SELE | ich copy CT SYS | of TEM | Attach copy of SELECT SYSTEM | | | | | | | |
| | | | | | | | | | | | | | |

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| Attach copy of ENGINE SELF-DIAG RESULTS | Attach copy of A/T SELF-DIAG RESULTS | Attach copy of BCM SELF-DIAG RESULTS | Attach copy of METER SELF-DIAG RESULTS |
|---|---|--|--|
| Attach copy of | Attach copy of | Attach copy of | |
| AUTO DRIVE POS. | ABS | IPDM E/R | |
| SELF-DIAG RESULTS | SELF-DIAG RESULTS | SELF-DIAG RESULTS | |
| Attach copy of | Attach copy of | Attach copy of | Attach copy of |
| ENGINE | A/T | BCM | METER |
| CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT |
| MNTR | MNTR | MNTR | MNTR |
| Attach copy of | Attach copy of | Attach copy of | |
| AUTO DRIVE POS. | ABS | IPDM E/R | |
| CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT | |
| MNTR | MNTR | MNTR | |

CHECK SHEET RESULTS (EXAMPLE)

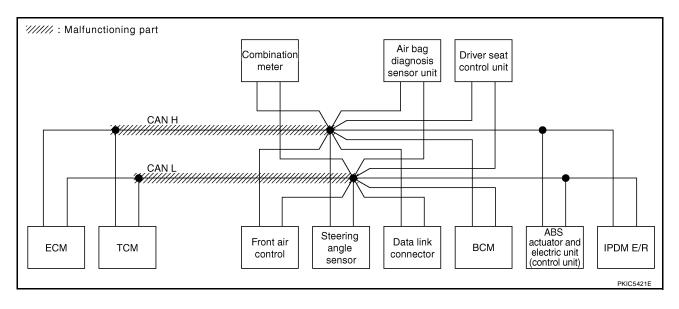
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.

| | | | | | SELF-DIAG RESULTS | | | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------------------|-------------------|-------|-------------|----------------|-----------------|-------------|-----------------------------|--------------------------|
| SELECT SYSTEM screen | | | | Receive diagnosis | | | | | | | | |
| | | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SELI-DIAG RESOLIS | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNK WN | UNK WN | UNK WN | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMY CIRCU (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | ∩ NK WN | UNK WN | _ | CAN COMM CIRCUIT (U 100) | _ |
| BCM | No indication | NG | UNKWN | NNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNK WN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNK WN | UNK VN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNK WN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 000) | _ |



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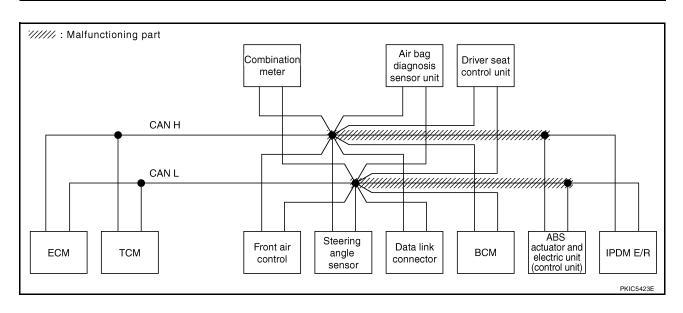
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

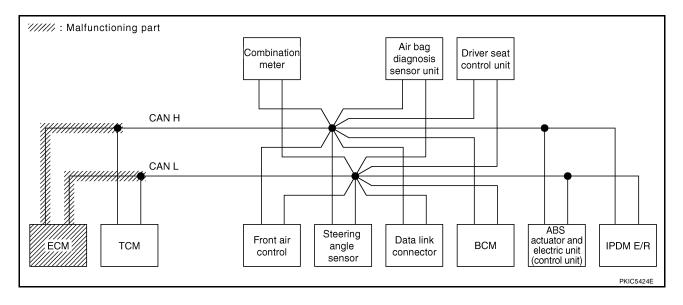
| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|-----------------|------------------|----------------------|-----------------------|----------------|---------|---------|-------------|---------------|-----------------|-------------|-----------------------------|--------------------------|
| SELECT SYSTEM | l ecreen | | | | | Red | eive diagn | osis | | | SELF-DIAG | PESITE |
| SEELOT STOTEW | 13016611 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SELI-DIAC | THEODEIG |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNK WN | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | - | CAN COMY CIRCUIT (UX00) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | - | _ | UNKWN | _ | UNK WN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNI WN | UNKWN | CAN COMM CIRCUIT (UV00) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNK W N | UNKWN | UNKWN | _ | _ | _ | - | CAN COMM CIRCUIT (UN00) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |



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Case 3
Check ECM circuit. Refer to <u>LAN-197</u>, "ECM Circuit Inspection" .

| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|-----------------|------------------|----------------------|-----------------------|----------------|---------|----------|----------------|---------------|-----------------|----------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | A screen | 1 - 202 - 1 | | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIA | 7 0010011 | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DINO | TILOGLIO |
| ENGINE | _ | _ | ∩ M MN | _ | UNKWN | _ | nuk w u | UNK WN | ∩ NK WN | n nk wn | CAN COMM CIRCUIT (U X 00) | CAN COMIN CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNK WN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNIWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNK W N | UNKWN | UNKWN | _ | - | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNK.WN | _ | _ | UNKWN | _ | _ | _ | CAN COMM*CIRCUIT (U 100) | _ |



CAN SYSTEM (TYPE 3)

[CAN]

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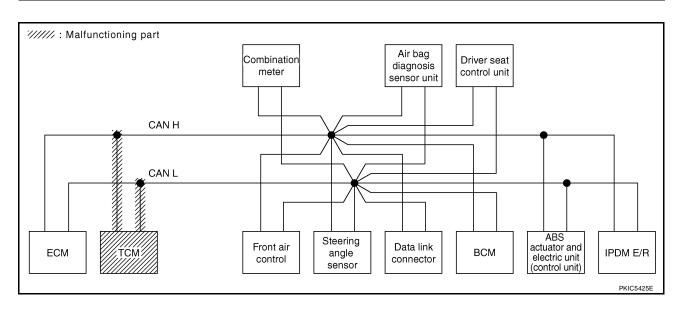
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Case 4
Check TCM circuit. Refer to <u>LAN-197</u>, "TCM Circuit Inspection" .

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|-----------------|---------------|----------------------|-----------------------|--------|---------|---------|-------------|---------------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | 1 screen | | | | | Red | eive diagn | osis | | | SELE-DIAG | RESULTS |
| SEEEOT STOTEN | 3010011 | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SELI-DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | ı | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNK WN | _ | _ | _ | UNK WN | nuk w u | _ | CAN COMM CIRCUIT (UN00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | 1 | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U X 00) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNK VN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

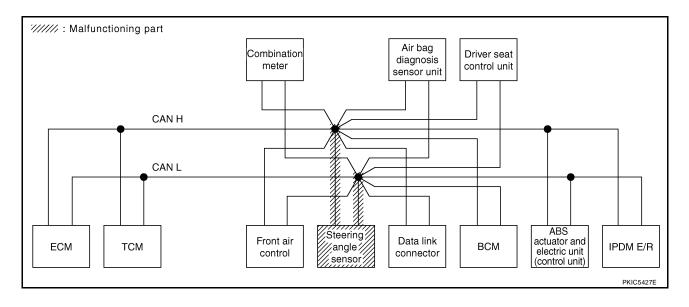


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Case 5
Check steering angle sensor circuit. Refer to <u>LAN-199</u>, "Steering Angle Sensor Circuit Inspection" .

| | | | | | CAN DIA | G SUPPOI | RT MNTR | | | | | |
|-----------------|---------------|----------------------|-----------------------|-------|---------|----------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | l ecroon | | | | | Red | ceive diagn | osis | | | SELE-DIAG | RESULTS |
| GLLLOT GTGTLIV | 13016611 | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SELI-DIAC | TILOULIS |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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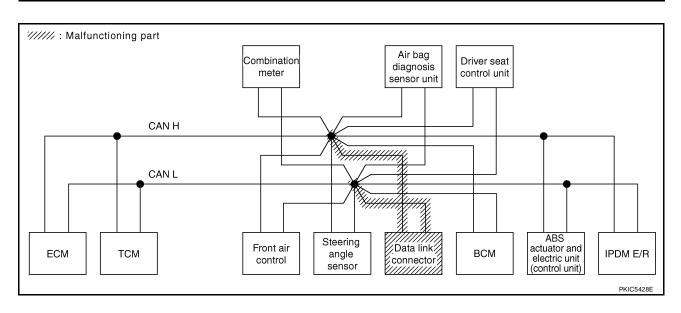
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Case 6

Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

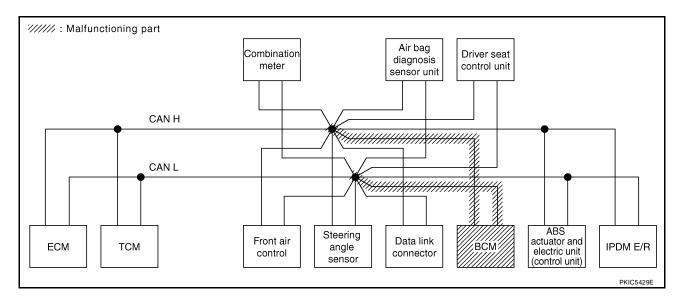
| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|-----------------|------------------|----------------------|-----------------------|-------|---------|---------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | 1 screen | | | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| SEEEOT STOTEW | 3016611 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| BCM | No indivation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No ind ation | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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Case 7
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

| | | | | | CAN DIA | G SUPPOF | RT MNTR | | | | | |
|-----------------|------------------|----------------------|-----------------------|-------|---------|----------|-------------|---------------|-----------------|-------------|-----------------------------|-----------------------------------|
| SELECT SYSTEM | 1 screen | | | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| OLLLOT OTOTEN | 13010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SELI-DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNK WN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U V 01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | N ind ation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNK WN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | - |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U 100) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | _ | _ | CAN COMM CIRCUIT (U1000) | - |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNK WN | - | _ | _ | CAN COMM CIRCUIT (U 000) | _ |



CAN SYSTEM (TYPE 3)

[CAN]

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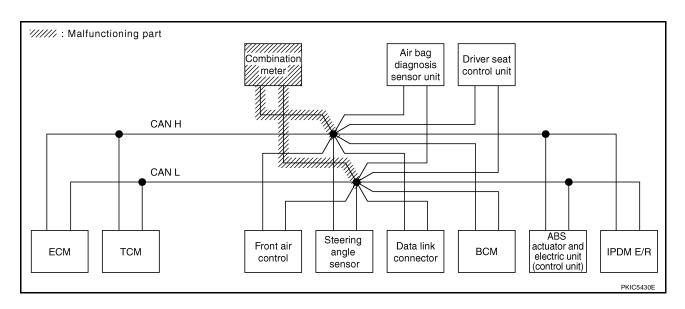
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Case 8
Check combination meter circuit. Refer to <u>LAN-200, "Combination Meter Circuit Inspection"</u>.

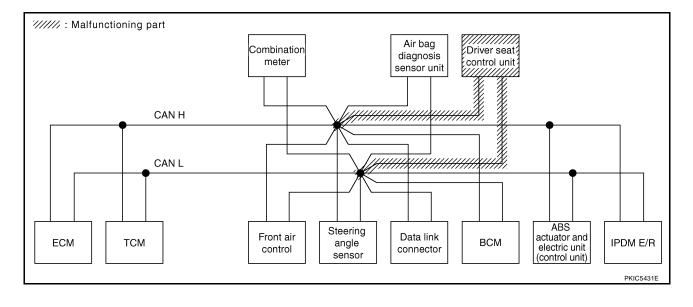
| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|-----------------|------------------|----------------------|-----------------------|-------|---------|---------|-------------|---------------|-----------------|-------------|-------------------------------------|-----------------------------------|
| SELECT SYSTEM | 1 screen | | | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| OLLLOT GTOTEN | 13010011 | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | THEODEIG |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNK WN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U V 01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNK WN | UNKWN | _ | CAN COMM/CIRCUIT (U N 00) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNK WN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | inchation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNK WN | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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Case 9
Check driver seat control unit circuit. Refer to <u>LAN-202</u>, "<u>Driver Seat Control Unit Circuit Inspection</u>".

| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|-----------------|------------------|----------------------|-----------------------|-------|---------|----------|-------------|---------------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | 1 screen | 1 - 202 - 1 | F | | | Red | eive diagn | osis | | | SELE-DIAG | RESULTS |
| OLLLOT OTOTEN | 1 0010011 | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DINC | TILOGLIG |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No ind ation | _ | - | 1 | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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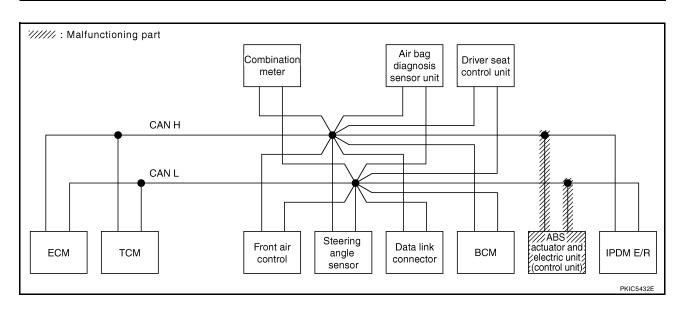
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Case 10

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

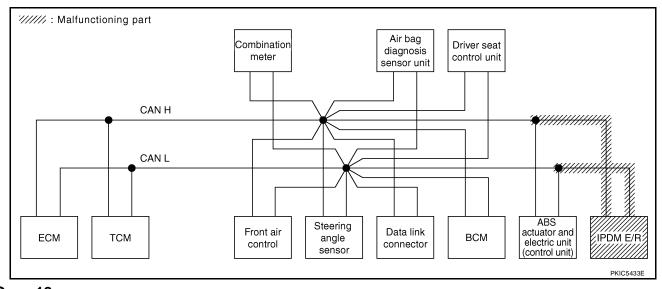
| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|-----------------|------------------|----------------------|-----------------------|----------------|---------|--------------|-------------|---------------|-----------------|-------------|-----------------------------|--------------------------|
| SELECT SYSTEM | 1 screen | | | | | Red | eive diagn | osis | | | SELF-DIAG | RESULTS |
| OLLLOT GTOTEN | 1 3010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SELI-DIAC | THEODEIG |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | ∩ NK WN | - | CAN COMM CIRCUIT (U 00) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNI WN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | ₩ | NNKWN | nuk % u | UNK VN | NNKWN | _ | _ | _ | - | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | - | CAN COMM CIRCUIT (U1000) | _ |



LAN

Case 11
Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection".

| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|-----------------|------------------|----------------------|-----------------------|-------|---------|----------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | 1 screen | | | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| SEEEOT STOTEN | 3016611 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | SELI-DIAC | THEODEIG |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNK\\N | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | - | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |



Case 12
Check CAN communication circuit. Refer to <u>LAN-203, "CAN Communication Circuit Inspection"</u>.

| | | | | | CAN DIA | G SUPPOR | RT MNTR | | | | | |
|-----------------|------------------|---------|-----------------------|----------------|----------------|----------|-------------|----------------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | 1 screen | Initial | Tuonomit | | | Red | eive diagn | osis | | | SELE-DIAG | RESULTS |
| OLLEGI GIGILIA | 7 0010011 | | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DINO | TILOULIU |
| ENGINE | _ | _ | UNK VN | _ | UNK N N | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | ∩ NR WN | _ | _ | _ | UNK W N | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| BCM | No indivation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | N ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U\)00) | _ |
| AUTO DRIVE POS. | No ind ation | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | V | UNK V N | UNK WN | UNK VN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |

CAN SYSTEM (TYPE 3)

[CAN]

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Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|-----------------|------------------|----------------------|-----------------------|-------|---------|---------|-------------|---------------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | 1 screen | | | | | Red | eive diagn | osis | | | SELE-DIAG | RESULTS |
| OLLLOT GTGTLIV | 1 3010011 | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | _ | UNK WN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (UN00) | CAN COMIN CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U\)00) | - |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN DIA | G SUPPO | RT MNTR | | | | | |
|-----------------|---------------|----------------------|-----------------------|-------|---------|---------|-------------|---------------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | l screen | 1-141-1 | T | | | Red | ceive diagn | osis | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIV | 13010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | THEODEIG |
| ENGINE | _ | - | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | _ | _ | _ | _ | _ | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | _ | UNKWN | _ | _ | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |
| IPDM E/R | No indication | - | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

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CAN SYSTEM (TYPE 4)

CAN SYSTEM (TYPE 4) Component Parts and Harness Connector Location Refer to LAN-25, "Component Parts and Harness Connector Location" Schematic Refer to LAN-26, "Schematic" Wiring Diagram — CAN —

Refer to LAN-27, "Wiring Diagram — CAN —".

CAN SYSTEM (TYPE 4)

[CAN]

Check Sheet UKS00535

NOTE:

| Check sheet tabl | е | | | | | | | | | | | | |
|--|------------------|----------|-----------|--------------------------------|----------|-------------------|----------------------|-------------|------------------|--------------------|-------------|-----------------------------|---------------------------|
| | | | | | CAN | DIAG SU | IPPORT N | INTR | | | | | |
| SELECT SYSTEM | l screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| | | | diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | | |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | UNKWN | | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | | CAN COMM CIRCUIT (U1000) | _ |
| | | | | tach co _l ECT SY | | | | | | ich copy CT SYS | | | |
| Display | control ur | write th | e followi | ing nam | es, and | put a ch | ieck ma | rk on the | above check shee | et table. | | | |
| Confirmation/Adjustment Display Check sheet table Displa | | | | | | Display | C | onfirmat | ion/Adju | ustment | Display | Check sheet | table Display |
| AN COMM Initial diagnosis | | | | | | С | AN CIR | C 5 | • | | METE | R/M&A | |
| AN CIRC 1 Transmit diagnosis | | | | | osis | С | AN CIR | C 6 | | | - | _ | |
| CAN CIRC 2 | | | | | | | | AN CIR | | | | IPDN | /I E/R |
| CAN CIRC 3 | | | | | ECM | | - | AN CIR | | | | - | _ |
| CAN CIRC 4 | | | | Front | air cont | rol | c | AN CIR | C 9 | | | - | _ |
| | | | | | | | tach cop ay contr | ol unit | | | | | |

LAN-85 Revision: February 2007 2006 Pathfinder

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| Attach copy of ENGINE SELF-DIAG RESULTS | Attach copy of A/T SELF-DIAG RESULTS | Attach copy of BCM SELF-DIAG RESULTS | Attach copy of METER SELF-DIAG RESULTS |
|--|--|--|--|
| Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS | Attach copy of ABS SELF-DIAG RESULTS | Attach copy of IPDM E/R SELF-DIAG RESULTS | |
| Attach copy of | Attach copy of | Attach copy of | Attach copy of |
| ENGINE | A/T | BCM | METER |
| CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT |
| MNTR | MNTR | MNTR | MNTR |
| Attach copy of | Attach copy of | Attach copy of | |
| AUTO DRIVE POS. | ABS | IPDM E/R | |
| CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT | |
| MNTR | MNTR | MNTR | |

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

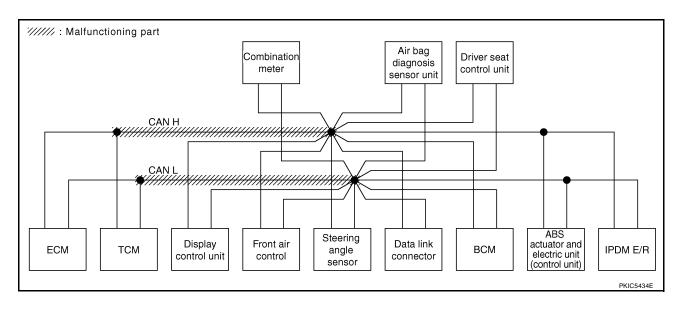
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.

| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|----------------------|------------------|----------------------|-----------------------|----------------|--------|-------------------|---------|----------------|---------------|-----------------|--------|-----------------------------|----------------------------|
| SELECT SYSTEM | A screen | 1-22-1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 010121 | | Initial diagnosis | Transmit diagnosis | | TCM | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | E/R | | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | ı | n uk wu | UNK WN | n uk wu | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | ı | _ | ı | 1 | UNKWN | n uk wu | - | CAN COMM CIRCUIT (UV00) | 1 |
| Display control unit | _ | NG | UNKWN | UNK WN | _ | UNKWN | _ | UNKWN | UNKWN | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | n nk wn | _ | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | n nk wu | UNK WN | _ | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 00) | _ |
| AUTO DRIVE POS. | No indication | _ | ı | ı | UNK WN | _ | 1 | UNKWN | UNKWN | _ | 1 | CAN COMM CIRCUIT (U 100) | ı |
| ABS | _ | NG | UNKWN | n uk wu | UNK WN | _ | UNKWN | _ | - | _ | 1 | CAN COMM CIRCUIT (UV00) | - |
| IPDM E/R | No indication | _ | UNKWN | UNI WN | _ | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 00) | _ |



Revision: February 2007 LAN-87 2006 Pathfinder

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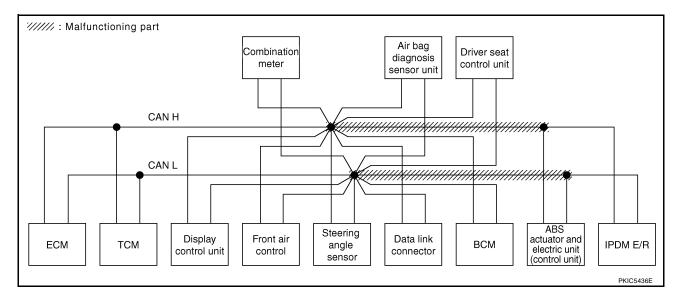
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Case 2
Charles between data link connector and ABC actuator and electric unit (ac

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

| ATT — NG UNKWN UNKWN — — — UNKWN UNKWN — CAN COMM CIRCUIT (UN00) — Display control unit — NG UNKWN UNKWN — UNKWN — UNKWN UNKWN — UNKWN — UNKWN — — — — BCM NO Indication NO UNKWN UNKWN — — — UNKWN — UNKWN — UNKWN — UNKWN — — — — CAN COMM CIRCUIT (U1000) — — — — UNKWN UNKWN — — UNKWN UNKWN — — UNKWN UNKWN — — CAN COMM CIRCUIT (UN00) — — — — UNKWN UNKWN — — UNKWN UNKWN — — — CAN COMM CIRCUIT (U1000) — — — — — — — — — — — — — — — — — — | | | | | | CAN | DIAG SU | PPORT M | INTR | | | _ | | |
|--|----------------------|------------------|-----------|-------|--------|--------|---------|---------|-----------|-------|----------------|--------|-----------------------------|----------------------------|
| ENGINE | SELECT SYSTEM | screen | locitical | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| A/T | 022201 01012.11 | | | | ECM | ТСМ | | STRG | | | | | OLLI DINC | TRESOLIS |
| Display control unit | ENGINE | _ | _ | UNKWN | - | UNKWN | _ | _ | UNKWN | UNKWN | n uk wu | UNK WN | (U1000) | CAN COMM CIRCUIT (UN01) |
| BCM | A/T | _ | NG | UNKWN | UNKWN | ı | _ | ı | _ | UNKWN | UNK WN | _ | | 1 |
| METER No No No No No No No N | Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | UNK WN | _ | _ |
| AUTO DRIVE POS. No indication - - - UNKWN UNKWN - - UNKWN UNKWN - - CAN COMM CIRCUIT - | всм | | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | UNK WN | | - |
| ABS - NG UNKWN UNKWN UNKWN - UNKWN CAN COMM CIRCUIT (UJ00) | METER | | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | - | n uk wu | UNK WN | | - |
| ABS - NG UNKWN UNKWN - UNKWN - UNKWN - UNKWN - UNKWN - CAN COMN CIRCUIT - | AUTO DRIVE POS. | | _ | _ | 1 | UNKWN | - | ı | UNKWN | UNKWN | _ | 1 | | I |
| | ABS | _ | NG | UNKWN | UNK WN | UNK WN | _ | UNK NN | _ | ı | _ | 1 | | 1 |
| indiffaction Indiff | IPDM E/R | No indivation | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | _ | | CAN COMM CIRCUIT (U 100) | - |
| | | | | | | | | | | | | | | |



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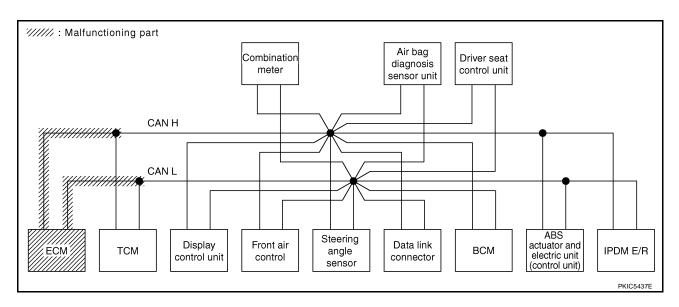
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Case 3
Check ECM circuit. Refer to <u>LAN-197, "ECM Circuit Inspection"</u>.

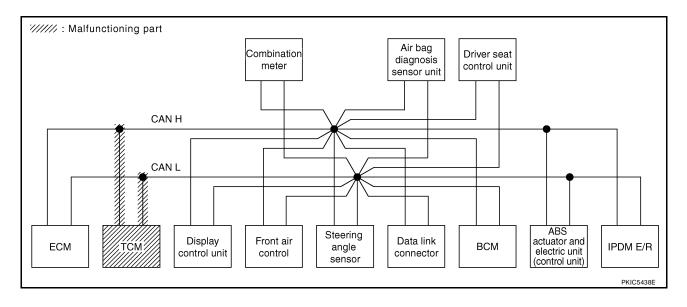
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|---------------|----------------------|-----------------------|----------------|----------------|-------------------|---------|----------------|----------------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | l screen | to this at | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012. | | Initial diagnosis | Transmit diagnosis | | TCM | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | 0221 31/10 | |
| ENGINE | _ | _ | ∩ NK WN | _ | ∩ NK WN | _ | _ | ∩ NK WN | ∩ NK WN | n uk wu | UNK WN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNK W N | ı | _ | ı | 1 | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U V 00) | ı |
| Display control unit | _ | NG | UNKWN | n uk wu | ı | UNKWN | ı | UNKWN | UNKWN | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | ∩ NK WN | - | _ | ı | 1 | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | n nk wn | UNKWN | _ | ı | UNKWN | - | UNKWN | UNKWN | CAN COMM CIRCUIT (U 00) | _ |
| AUTO DRIVE POS. | No indication | _ | - | _ | UNKWN | _ | 1 | UNKWN | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | - |
| ABS | _ | NG | UNKWN | UNK W N | UNKWN | _ | UNKWN | - | _ | _ | 1 | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | - | CAN COMM CIRCUIT (U 00) | - |
| | | · | | | | · | | | | | | | · |



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Case 4
Check TCM circuit. Refer to <u>LAN-197, "TCM Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|------------------|----------------------|-----------------------|--------|----------------|-------------------|---------|-------------|---------------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | 1 screen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| SEEEOT STOTEN | 13010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | _ | ∩ NK WN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | CAN COMIN CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNK WN | _ | _ | _ | _ | UNKWN | n uk wu | _ | CAN COMM CIRCUIT (U X 00) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | ∩ NK WN | _ | _ | UNKWN | 1 | UNKWN | UNKWN | CAN COMM CIRCUIT (U 00) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | 1 | ∩ NK WN | _ | _ | UNKWN | UNKWN | _ | - | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | n uk wu | _ | UNKWN | - | 1 | _ | _ | CAN COMM CIRCUIT (UV00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | - | _ | CAN COMM CIRCUIT (U1000) | _ |



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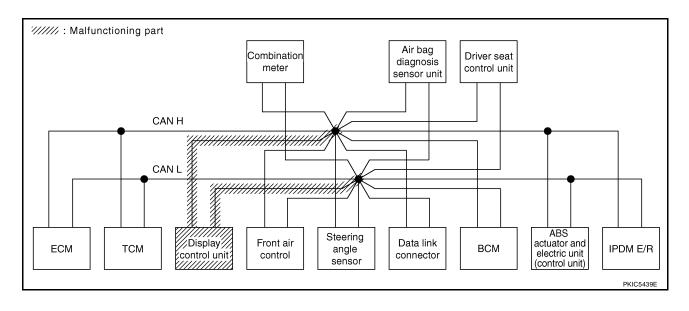
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Case 5
Check display control unit circuit. Refer to <u>LAN-198</u>, "<u>Display Control Unit Circuit Inspection</u>".

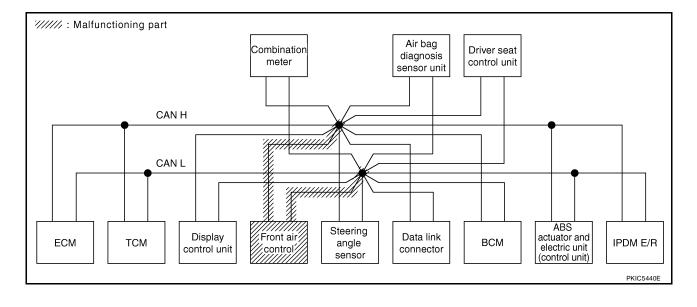
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|---------------|----------------------|-----------------------|--------|-------|-------------------|---------|-------------|---------------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | scroon | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| GEEEOT GTGTEN | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | TIEGOLIG |
| ENGINE | _ | _ | UNKWN | 1 | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | 1 | _ | UNKWN | UNKWN | ı | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNK WN | UNK WN | _ | UNIWN | - | UN WN | UNIWN | _ | UNKWN | _ | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | - | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | ı | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | ı | ı | UNKWN | _ | ı | UNKWN | UNKWN | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | 1 | UNKWN | _ | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5661E |



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Case 6
Check front air control circuit. Refer to <u>LAN-198</u>, "Front Air Control Circuit Inspection" .

| | | | • | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|---------|-------------|---------------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | l screen | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| GEEEGT GTGTEN | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | THEODEIG |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | _ | _ | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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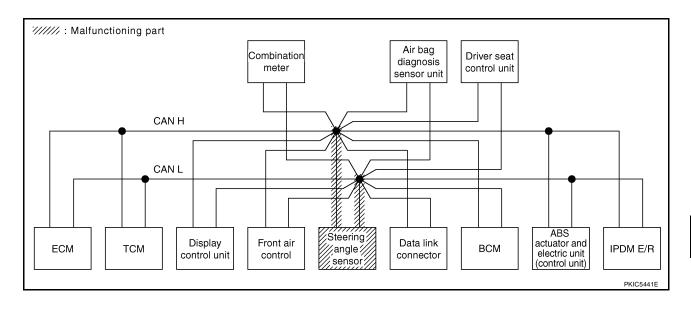
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Case 7
Check steering angle sensor circuit. Refer to <u>LAN-199</u>, "Steering Angle Sensor Circuit Inspection" .

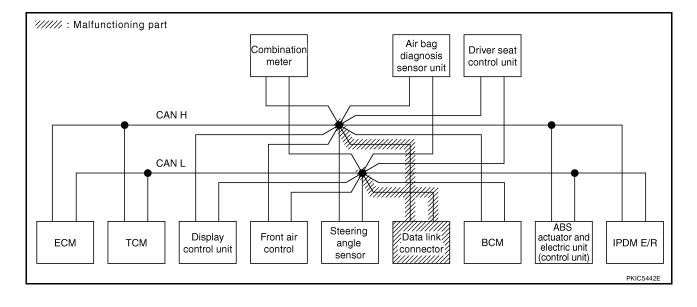
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|---------------|----------------------|-----------------------|-------|-------|-------------------|---------|-------------|---------------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | 1 screen | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| SEEDI GIGIEN | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | GEET-DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | ı | UNKWN | _ | I | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | ı | _ | ı | _ | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | ı | UNKWN | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | ı | 1 | UNKWN | _ | ı | UNKWN | UNKWN | _ | ı | CAN COMM CIRCUIT (U1000) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | ı | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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Case 8
Check data link connector circuit. Refer to <u>LAN-199</u>, "<u>Data Link Connector Circuit Inspection</u>" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|---------|-------------|---------------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 022201 01012.1 | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DINC | . 1120210 |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | - | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | - | 1 | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | ı | UNKWN | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| AUTO DRIVE POS. | No indication | _ | - | 1 | UNKWN | _ | ı | UNKWN | UNKWN | 1 | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | - | 1 | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | 1 | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



CAN SYSTEM (TYPE 4)

[CAN]

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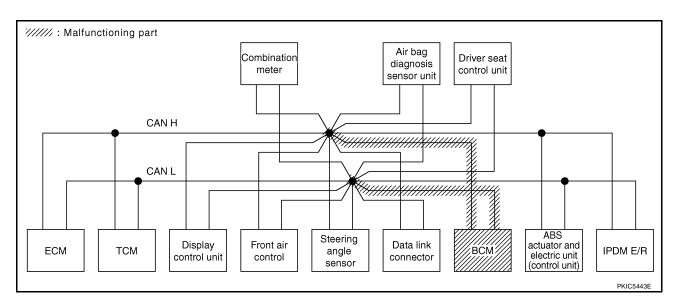
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Case 9
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

| | | | | | | | | | | | | _ | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|---------|----------------|---------------|-----------------|-------------|-------------------------------------|----------------------------|
| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
| SELECT SYSTEM | screen | to take 1 | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 022201 01012 | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DINC | |
| ENGINE | _ | _ | UNKWN | 1 | UNKWN | 1 | _ | nuk w u | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | _ | _ | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | ı | UNKWN | - | UNAWN | UNKWN | _ | UNKWN | _ | _ |
| всм | N/ indication | NG | UNKWN | UNKWN | 1 | 1 | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | _ | UNK W N | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | _ |
| AUTO DRIVE POS. | No indication | - | ı | 1 | UNKWN | 1 | ı | UNK VN | UNKWN | _ | ı | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | - | UNKWN | _ | _ | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | _ | _ | UNK WN | _ | _ | 1 | CAN COMM CIRCUIT (U V 00) | _ |
| | | | | · | • | · | · | · | | | | | |
| | | | | | | | | | | | | | PKIC5665E |



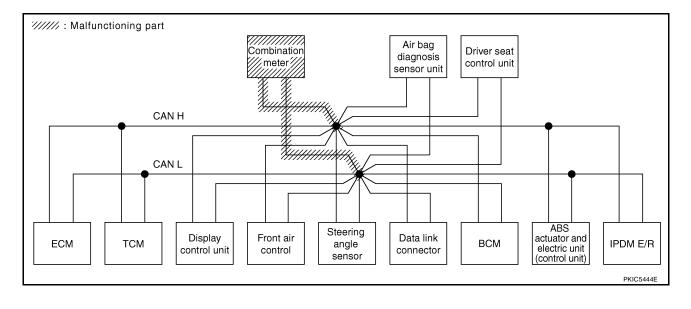
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Case 10

Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

| A/T | -6 | | | | | | INTR | PPORT N | DIAG SU | CAN | | | | | |
|---|----|--|--------|-------|-------|-----------------|-----------|---------|---------|-------|-------|-------|----|---------------|----------------------|
| STRG | | SELE-DIAG RESULTS | SELE-D | | | | diagnosis | Receive | | | | | | 1 screen | SELECT SYSTEM |
| A/T | | OLEF BING REGULTO | OLL! D | | | | | STRG | | тсм | ECM | | | 1 0010011 | OLLEGI GIGILIA |
| Display control unit | | AN COMM CIRCUIT CAN COMM C (U1000) (U V 01 | | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | _ | _ | ENGINE |
| BCM | - | | | 1 | UNKWN | UNKWN | _ | ı | - | _ | UNKWN | UNKWN | NG | _ | A/T |
| METER | - | | _ | UNKWN | _ | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | NG | _ | Display control unit |
| ALITO DRIVE POS NO LINKWN LINKWN LINKWN CAN COMY CIRCUIT _ | _ | | | UNKWN | _ | UNKWN | _ | _ | _ | _ | UNKWN | UNKWN | NG | | всм |
| | _ | | | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | _ | | METER |
| indication (U V 00) | - | AN COMM CIRCUIT | | ı | _ | Ω ΝΙ ⁄ΜΝ | UNKWN | - | - | UNKWN | _ | _ | _ | No indication | AUTO DRIVE POS. |
| ABS - NG UNKWN UNKWN - UNKWN CAN COMM CIRCUIT (U1000) - | - | | | 1 | - | _ | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | NG | _ | ABS |
| IPDM E/R No indication — UNKWN UNKWN — — — UNKWN — — — — CAN COMM CIRCUIT (U1000) | - | | | | _ | _ | UNKWN | _ | _ | _ | UNKWN | UNKWN | _ | | IPDM E/R |



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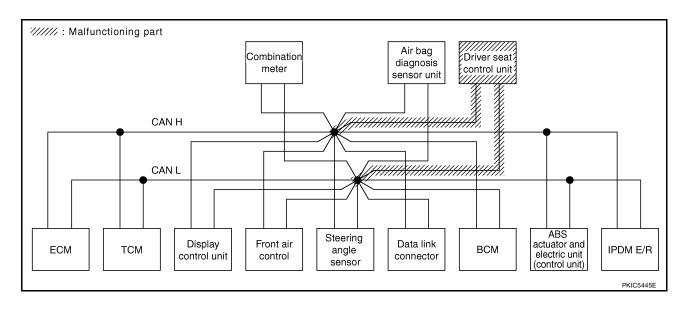
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Case 11

Check driver seat control unit circuit. Refer to LAN-202, "Driver Seat Control Unit Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|---------|-------------|---------------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | A screen | lantation I | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 022201 010121 | | Initial diagnosis | Transmit diagnosis | | TCM | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DINC | 3 T L C C L C |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | _ | _ | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | ı | _ | _ | _ | UNKWN | 1 | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No ind ation | _ | _ | ı | UNKWN | _ | _ | UNKWN | UNKWN | _ | - | CAN COMM CIRCUIT (U V 00) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

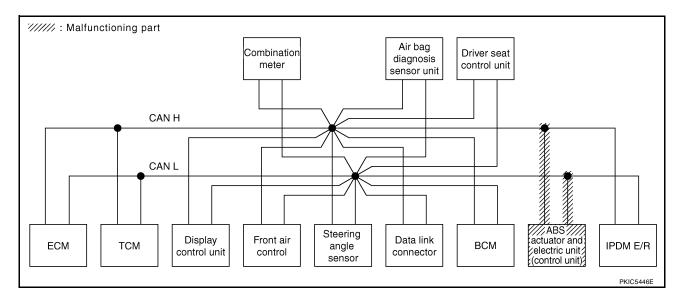


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Case 12

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|------------------|----------------------|-----------------------|----------------|----------------|-------------------|---------|-------------|---------------|-----------------|-------------|-------------------------------------|--------------------------|
| SELECT SYSTEM | 1 screen | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| OLLLOT GTGTLIV | 13010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | TILOOLIO |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | - | UNKWN | UNKWN | nuk % u | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | n uk wu | - | CAN COMIN CIRCUIT (UN00) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | - | UNKWN | UNKWN | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | - | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | - | UNKWN | - | n nk wu | UNKWN | CAN COMM CIRCUIT (U V 00) | _ |
| AUTO DRIVE POS. | No indication | _ | ı | 1 | UNKWN | _ | ı | UNKWN | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | ₩ | n uk wu | ∩ NK WN | n uk wu | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | - | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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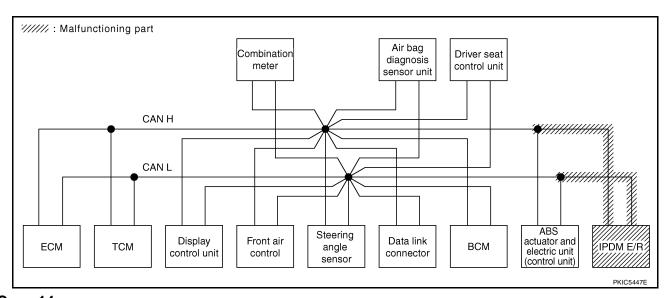
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Case 13
Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|-----------------|----------------------|-----------------------|-------|-------|-------------------|---------|-------------|---------------|-----------------|----------------|-----------------------------|----------------------------|
| SELECT SYSTEM | l screen | 1 - 22 - 1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIA | roorcon | Initial diagnosis | Transmit diagnosis | | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | GEE BING | THEODEIG |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | ∩ N NN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | ı | _ | ı | ı | UNKWN | UNKWN | | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | - | UNKWN | UNKWN | | NNK WN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | n uk wu | CAN COMM CIRCUIT (U1000) | = |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | ∩ NK WN | CAN COMM CIRCUIT (U 00) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | - | _ | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 000) | _ |



Case 14
Check CAN communication circuit. Refer to <u>LAN-203</u>, "CAN Communication Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|----------------------|------------------|----------------------|-----------------------|--------|--------|-------------------|---------|----------------|----------------|-----------------|-------------|--------------------------------------|--------------------------|
| SELECT SYSTEM | screen | 1 - 222 - 1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 012131 01012.II | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | 0221 31110 | |
| ENGINE | _ | _ | n uk wu | - | UNK WN | _ | _ | ∩ NK WN | ∩ NR WN | ∩ NK WN | UNK WN | CAN COMM CIRCUIT (U V 00) | CAN COMM CIRCU (UV01) |
| A/T | _ | NG | UNKWN | UNK WN | ı | _ | - | _ | ∩ NR WN | UNK WN | 1 | CAN COMM CIRCUIT (U X 00) | _ |
| Display control unit | _ | NG | UNKWN | UNWN | ı | UNI WN | - | UNK WN | UNKWN | 1 | UNK WN | _ | _ |
| BCM | No indivation | NG | UNKWN | UNKWN | ı | _ | _ | _ | UNKWN | 1 | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No ind ation | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 000) | _ |
| AUTO DRIVE POS. | No inditation | _ | _ | 1 | UNKWN | _ | _ | UNKWN | UNKWN | 1 | 1 | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | ₩ | UNIWN | UNK WN | UNKWN | _ | UNKVN | _ | ı | 1 | 1 | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | N indvation | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | | _ | CAN COMM CIRCUIT (U 00) | _ |

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Case 15

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|---------------|----------------------|-----------------------|-------|----------------|-------------------|---------|-------------|---------------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | l ecreen | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| OLLLOT GTGTLW | 13016611 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | _ | ∩ NK WN | _ | _ | UNKWN | UNKWN | n nk wn | UNKWN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | ı | _ | ı | - | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | ı |
| Display control unit | _ | NG | UNKWN | UNKWN | - | UNKWN | 1 | UNKWN | UNKWN | 1 | UNKWN | _ | 1 |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | - | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNK WN | _ | ı | UNKWN | ı | UNK WN | UNKWN | CAN COMM CIRCUIT (UV00) | ı |
| AUTO DRIVE POS. | No indication | _ | - | ı | UNK WN | - | l | UNKWN | UNKWN | 1 | - | CAN COMM CIRCUIT (U 100) | ı |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | ı | ı | - | CAN COMM CIRCUIT (U1000) | 1 |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | 1 | UNKWN | _ | _ | | CAN COMM CIRCUIT (U1000) | _ |

Case 16

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|----------------------|---------------|----------------------|-----------------------|-------|-------|-------------------|---------|-------------|---------------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | l ecreen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLLOT GTGTLW | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | VDC/TCS /ABS | IPDM E/R | GELI -DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | _ | 1 | _ | ı | _ | _ | UNKWN | 1 | CAN COMM CIRCUIT (UN00) | 1 |
| Display control unit | _ | NG | UNKWN | UNKWN | ı | UNKWN | ı | UNKWN | UNKWN | _ | UNKWN | | |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | - | UNKWN | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | l | UNKWN | UNKWN | - | 1 | CAN COMM CIRCUIT (U1000) | 1 |
| ABS | _ | NG | UNKWN | _ | UNKWN | _ | - | _ | _ | _ | 1 | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | - | _ | - | UNKWN | _ | _ | 1 | CAN COMM CIRCUIT (U1000) | 1 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5672E |

CAN SYSTEM (TYPE 5)

| CAN SYSTEM (TYPE 5) | | |
|--|-----------|---|
| , | [CAN] | |
| CAN SYSTEM (TYPE 5) | PFP:23710 | |
| Component Parts and Harness Connector Location | UK\$00531 | А |
| Refer to LAN-25, "Component Parts and Harness Connector Location". | | |
| Schematic | UK\$0053J | В |
| Refer to LAN-26, "Schematic" . | | |
| Wiring Diagram — CAN — | UKS0053K | C |
| Refer to LAN-27, "Wiring Diagram — CAN —". | | |
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CAN SYSTEM (TYPE 5)

[CAN]

Check Sheet

NOTE:

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

| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|-----------------|---------------|-----------|-----------|--|-------|---------|-------------|----------------|---------|-----------------|-------------|-----------------------------|---------|
| SELECT SYSTEM | l screen | Initial | Transmit | | | | | diagnosis I | | ı | | SELF-DIAG | RESULTS |
| | | diagnosis | diagnosis | ECM | TCM | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | | |
| NGINE | _ | _ | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | (U1001) |
| /Т | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| СМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| IETER | No indication | - | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| LL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | _ | CAN COMM CIRCUIT (U1000) | - |
| BS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| PDM E/R | No indication | | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| | | | At SEL | Attach copy of SELECT SYSTEM SELECT SYSTEM | | | | | | | | | |
| | | | | | | | | | | | | | |

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

Revision: February 2007 LAN-103 2006 Pathfinder

CHECK SHEET RESULTS (EXAMPLE)

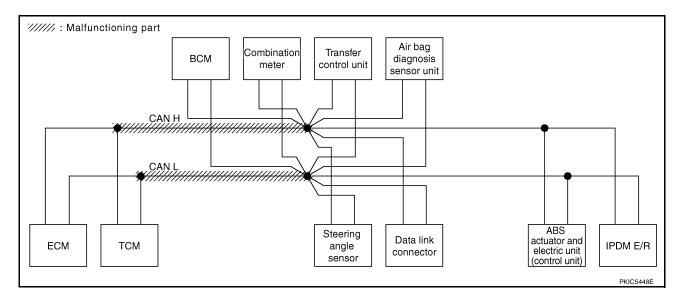
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.

| SELECT SYSTEM sc | | | | | | Di/ (G C C | PPORT N | IINII | | | | | |
|-------------------|-----------------|----------------------|-----------------------|----------------|----------------|------------|-------------|---------------|---------|-----------------|-------------|-----------------------------|---------------------------|
| | reen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIM 30 | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | THEODEIG |
| ENGINE | _ | _ | UNKWN | 1 | UNKWN | ı | UNK WN | UNK WN | UNKWN | UNK WN | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UN01) |
| VT | _ | NG | UNKWN | UNKWN | _ | _ | - | UNK WN | UNKWN | UNK W N | _ | CAN COMM CIRCUIT (UV00) | _ |
| BCM in | No ndication | NG | UNKWN | ∩ NK WN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER in | No ndication | - | UNKWN | ∩ NK WN | NIKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNK WN | UNK WN | _ | - | UNKWN | _ | UNKWN | - | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | ∩ NK WN | n uk wu | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (UV00) | _ |
| PDM E/R | No ndication | _ | UNKWN | UNI WN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |



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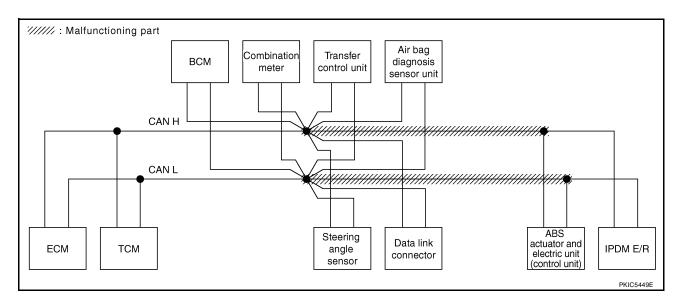
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

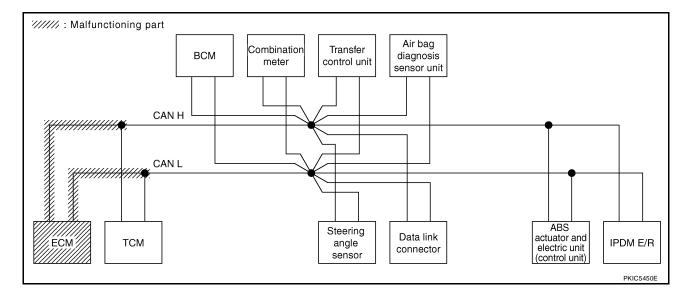
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|----------------|--------|----------------|-------------|-----------|---------|----------------|----------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | 1-24-1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGIEN | 10010011 | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | /IVI&A | AWD/4WD | ABS | E/K | | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNK W N | ∩ NK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | | | CAN COMM CIRCUIT (U 100) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | Ω NKW N | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | _ | ı | UNKWN | ∩ NK WN | CAN COMM CIRCUIT (UN00) | - |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | ı | ı | UNKWN | l | UNKWN | _ | CAN COMM CIRCUIT (U 100) | - |
| ABS | _ | NG | UNKWN | ∩ NK WN | UNK WN | n uk wu | - | _ | UNIWN | _ | _ | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | No ind ation | _ | UNKWN | UNKWN | ı | ı | UNKWN | _ | I | _ | - | CAN COMM CIRCUIT (U 00) | _ |
| | · | | | | | | | | | | | • | |



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Case 3
Check ECM circuit. Refer to <u>LAN-197</u>, "ECM Circuit Inspection" .

| SELECT SYSTEM screen | | | | | | | | | | | | | |
|----------------------|---------------|---------|-----------------------|----------------|----------------|-------|----------------|-------------------|---------|-----------------|----------------|-----------------------------|--------------------------|
| | | Initial | Transmit diagnosis | | | | Receive | SELF-DIAG RESULTS | | | | | |
| OLLEGI GIGILIA | | | | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | GEEF-DIAG NEGOLIG | |
| ENGINE | _ | _ | ∩ /k /wи | _ | ∩ NK WN | _ | ∩ NK WN | ∩ NK WN | UNKWN | n nk wn | ∩ NK WN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCU (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKW N | - | _ | - | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | ∩ NK WN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNK WN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | - | ı | UNKWN | - | _ | _ | ı | CAN COMM CIRCUIT (UN00) | _ |



CAN SYSTEM (TYPE 5)

[CAN]

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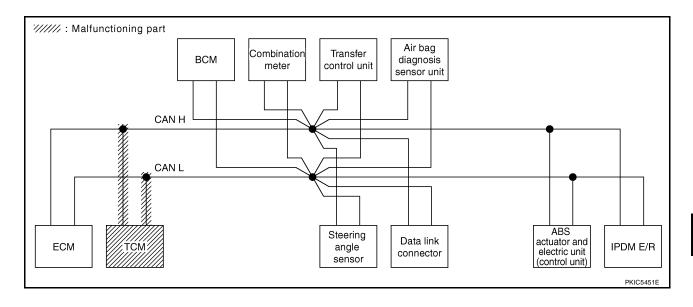
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Case 4
Check TCM circuit. Refer to <u>LAN-197</u>, "TCM Circuit Inspection" .

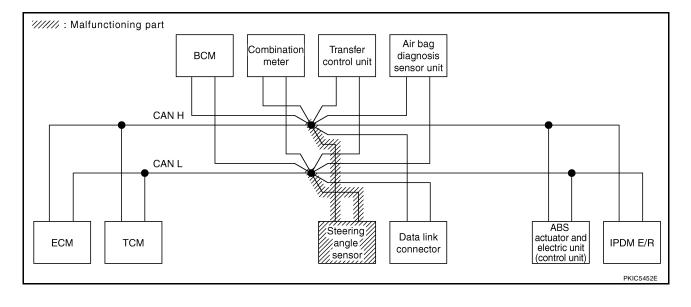
| SELECT SYSTEM screen | | | | | | | | | | | | | |
|----------------------|---------------|----------------------|-----------------------|--------|--------|-------|-------------|-------------------|--------------|-----------------|-------------|-------------------------------------|----------------------------|
| | | Initial diagnosis | Transmit diagnosis | | | | Receive | SELF-DIAG RESULTS | | | | | |
| | | | | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | CEEF BING RECOEFS | |
| ENGINE | _ | _ | UNKWN | _ | UNK WN | - | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (UV00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNK WN | 1 | 1 | 1 | UNK WN | NN WN | UNK WN | - | CAN COMM CIRCUIT (UN00) | - |
| ВСМ | No indication | NG | UNKWN | UNKWN | 1 | ı | ı | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNK WN | ı | UNKWN | ı | l | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | ı |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | ı | ı | UNKWN | ı | UNKWN | ı | CAN COMM CIRCUIT (U 100) | 1 |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | ı | ı | UNKWN | _ | ı | CAN COMM CIRCUIT (U V 00) | - |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | 1 | ı | UNKWN | - | _ | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |



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Case 5
Check steering angle sensor circuit. Refer to <u>LAN-199</u>, "Steering Angle Sensor Circuit Inspection" .

| SELECT SYSTEM screen | | | Transmit diagnosis | | | | Receive | SELF-DIAG RESULTS | | | | | |
|----------------------|---------------|----|-----------------------|-------|-------|----------------|-------------|-------------------|---------|-----------------|-------------|-----------------------------|---------------------------|
| | | | | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | GEET -DIAG TESOETS | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | - | - | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U1000) | - |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | ı | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | ı | ı | UNKWN | ı | UNKWN | ı | CAN COMM CIRCUIT (U1000) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | ∩ Nk WN | 1 | 1 | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | - |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | - | ı | UNKWN | ı | ı | _ | ı | CAN COMM CIRCUIT (U1000) | ı |



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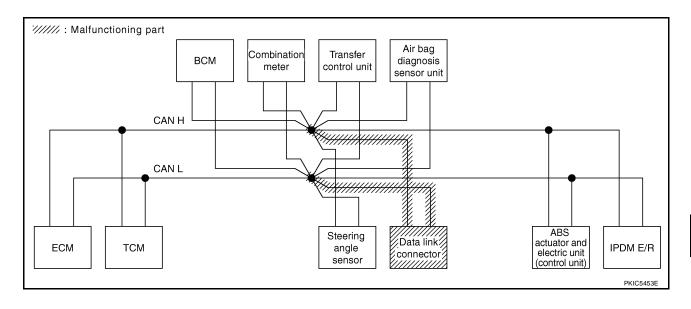
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Case 6

Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection" .

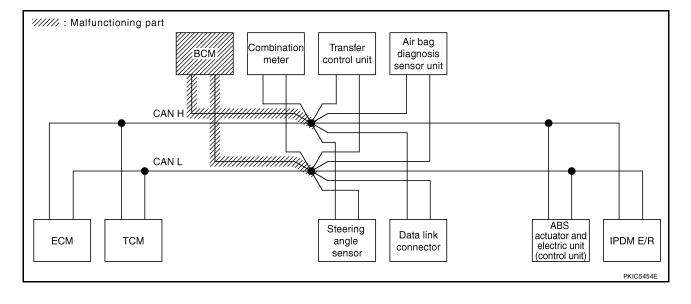
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | la tera | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGY GYGYEM | ooroon | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI BINC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | - | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | Ng ind ation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | N ind ation | _ | UNKWN | UNKWN | UNKWN | 1 | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | - | _ | UNKWN | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | - | _ | UNKWN | _ | - | CAN COMM CIRCUIT (U1000) | - |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | ı | - | UNKWN | _ | 1 | _ | ı | CAN COMM CIRCUIT (U1000) | ı |



LAN

Case 7
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|-------|---------|----------------|---------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | l-siai - l | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012 | 00,00 | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 3221 31110 | |
| ENGINE | _ | _ | UNKWN | 1 | UNKWN | - | UNK W N | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | | - | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | - |
| ВСМ | Ng ind ation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | - | - | UNKWN | _ | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNK WN | _ | _ | _ | - | CAN COMM CIRCUIT (U 00) | 1 |



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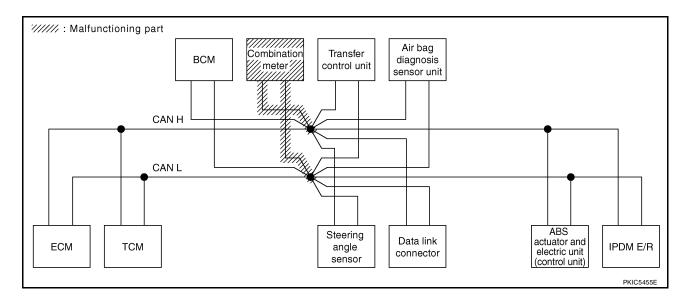
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Case 8
Check combination meter circuit. Refer to <u>LAN-200</u>, "Combination Meter Circuit Inspection".

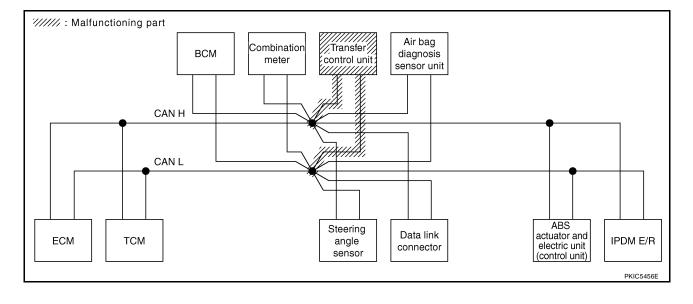
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|-----------|----------|-------|-------|---------|-------------|----------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| | | diagnosis | | | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 022. 5 | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | ∩ NK WN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | ı | _ | - | UNKWN | _ | - | UNKWN | CAN COMM CIRCUIT (U1000) | 1 |
| METER | Ng ind ation | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | ı | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | ı |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | - | ı | UNKWN | _ | UNKWN | ı | CAN COMM CIRCUIT (U1000) | 1 |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | | ı | UNKWN | 1 | ı | CAN COMM CIRCUIT (U1000) | I |
| IPDM E/R | No indication | - | UNKWN | UNKWN | ı | - | UNKWN | ı | _ | - | ı | CAN COMM CIRCUIT (U1000) | I |
| | | | | | | | | | | | | | |



LAN

Case 9
Check transfer control unit circuit. Refer to <u>LAN-201</u>, "<u>Transfer Control Unit Circuit Inspection</u>".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|-----------------|-----------------|-------------|-------------------------------------|--------------------------|
| SELECT SYSTEM | screen | | , | | | | Receive of | diagnosis | | | | SELE-DIAG | RESULTS |
| OLLEGI GIGILIA | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | THEODEIG |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | ∩ NI \WN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | - | - | UNKWN | UNI WN | UNKWN | - | CAN COMM CIRCUIT (U X 00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | 1 | UNKWN | ı | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | _ | NG | n uk wu | UNKWN | UNKWN | 1 | - | UNK WN | ı | UNKWN | - | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | 1 | - | UNWN | - | - | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | ı | UNKWN | ı | 1 | - | - | CAN COMM CIRCUIT (U1000) | _ |



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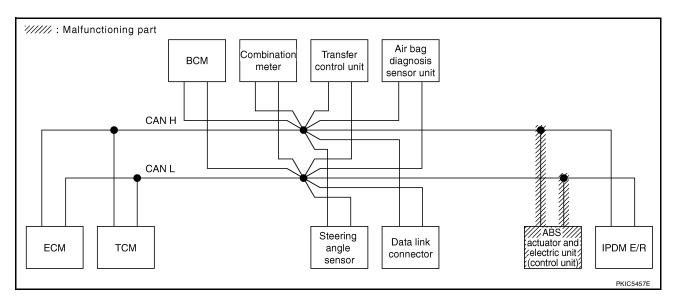
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Case 10

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

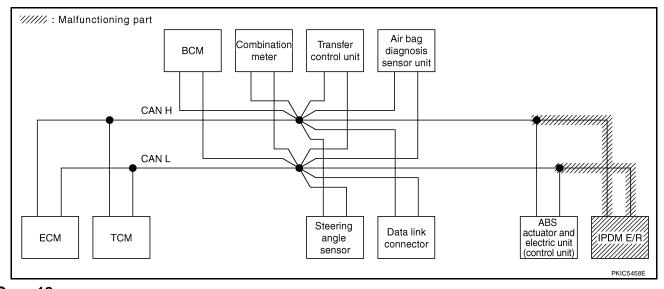
| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|---------------|--------|----------------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|---------------------------|
| SELECT SYSTEM | screen | 1-20-1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 010121 | 10010011 | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | ı | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U X 00) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | _ | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | - | - | UNKWN | - | UNKWN | _ | CAN COMM CIRCUIT (U X 00) | _ |
| ABS | _ | V | n uk wu | ΩΝΚW Ν | UNK WN | n uk wu | _ | _ | UN WN | _ | _ | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | - | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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Case 11
Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|---------|----------|-------|-------|---------|-------------|---------------|---------|-----------------|----------------|-----------------------------|---------------------------|
| SELECT SYSTEM | screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 010121 | diagnosis dia | | | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | n uk wu | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | - | | | UNKWN | _ | CAN COMM CIRCUIT | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | n uk wu | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |



Case 12
Check CAN communication circuit. Refer to <u>LAN-203, "CAN Communication Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | | | |
|------------------|-----------------|----------------------|-----------------------|--------|----------------|---------|----------------|---------------|----------------|-----------------|----------------|-------------------------------------|-----------|--|--|
| SELECT SYSTEM | screen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS | | |
| OLLEGI GIGILINI | ooroom | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 1 CAN COMPCIDE UT CAN COMPCI | | | |
| ENGINE | _ | _ | n uk wu | _ | UNK W N | _ | ∩ NK NN | ΠΝΚΝ Ν | ∩ NK WN | n uk wu | UNK W N | | | | |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | ∩ NK WN | n uk wu | _ | CAN COMM CIRCUIT (UV00) | _ | | |
| всм | Ng ind ation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ | | |
| METER | N/ ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ | | |
| ALL MODE AWD/4WD | ı | NG | n uk wu | UNK WN | UNKWN | _ | l | UNKWN | ı | n uk wu | - | CAN COMM CIRCUIT (U N 00) | _ | | |
| ABS | ı | ¥ | UNK WN | UNKWN | UNKWN | UNKWN | ı | ı | UNWN | 1 | _ | CAN COMM CIRCUIT (U 100) | _ | | |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | ı | _ | UNKWN | ı | ı | ı | _ | CAN COMM CIRCUIT (UV00) | _ | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5685E | | |

CAN SYSTEM (TYPE 5)

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Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|----------------|---------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | to the of | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 022201 010121 | ooroon | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | THEODERO |
| ENGINE | _ | _ | UNKWN | _ | n uk wu | 1 | UNKWN | UNKWN | UNKWN | ∩ NK WN | UNKWN | CAN COMM CIRCUIT (U 100) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | ı | - | UNKWN | UNKWN | UNKWN | | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | ∩ NR WN | 1 | UNKWN | ı | ı | UNK WN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | - | NG | UNKWN | UNKWN | UNKWN | 1 | _ | UNKWN | - | UNKWN | 1 | CAN COMM CIRCUIT (U X 00) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | ı | UNKWN | 1 | - | _ | _ | CAN COMM CIRCUIT (U1000) | - |

Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|---------------|---------|-----------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| | | | diagnosis | | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | _ | _ | _ | _ | _ | _ | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | 1 | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | ı | UNKWN | UNKWN | UNKWN | _ | UNKWN | ı | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | - | NG | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | - | NG | UNKWN | _ | UNKWN | _ | _ | ı | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |
| IPDM E/R | No indication | 1 | UNKWN | UNKWN | ı | _ | UNKWN | ı | _ | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |

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CAN SYSTEM (TYPE 6)

CAN SYSTEM (TYPE 6) Component Parts and Harness Connector Location Refer to LAN-25, "Component Parts and Harness Connector Location" Schematic Refer to LAN-26, "Schematic"

UKS00530

Refer to LAN-27, "Wiring Diagram — CAN —" .

Wiring Diagram — CAN —

CAN SYSTEM (TYPE 6)

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Check Sheet

NOTE:

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

| Check sheet table | | | | | | | | | | | _ | Г | |
|-------------------|---------------|----------------------|-----------------------|----------|----------------|---------|-------------|-------------------|--------------|--------------------|-------------|-----------------------------|-----------------------------|
| | | | Π | | CAN | DIAG SU | | INTR diagnosis | | | | | |
| SELECT SYSTEM | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | _ | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELF-DIAG | G RESULTS |
| NGINE | _ | _ | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| √T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| SCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| IETER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | ı | NG | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | ı | CAN COMM CIRCUIT (U1000) | _ |
| ABS | ı | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| PDM E/R | No indication | | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| | | | Af SEL | tach col | py of 'STEM | | | | Atta SELE | ach copy CT SYS | of TEM | | |
| | | | | | | | | | | | | | |

Revision: February 2007 LAN-117 2006 Pathfinder

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

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CHECK SHEET RESULTS (EXAMPLE)

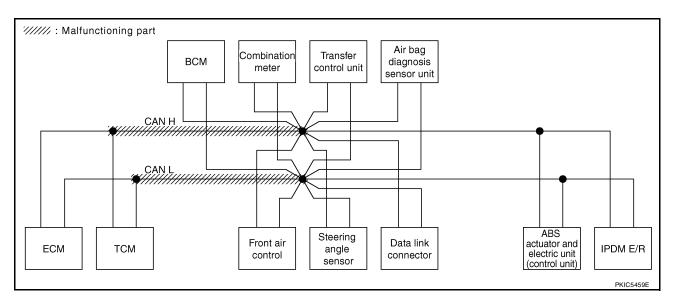
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|---------|-----------------------|----------------|----------------|---------|----------------|----------------|--------------------------|-----------------|----------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012. | 00.00 | | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI BINC | THEODERO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | ∩ NK WN | ∩ NK WN | ∩ Nk {\mathbb{N}} | n uk wu | ∩ NK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | - | NG | UNKWN | UNKWN | - | - | _ | UNK WN | UNI WN | n nk wn | _ | CAN COMM CIRCUIT (UV00) | _ |
| ВСМ | No indication | NG | UNKWN | UNK WN | - | - | - | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNK WN | NNK WN | 1 | UNKWN | - | - | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNK WN | ı | ı | UNKWN | ı | UNKWN | ı | CAN COMM CIRCUIT (U 100) | ı |
| ABS | _ | NG | UNKWN | ∩ NK WN | n uk wu | UNKWN | _ | _ | UNKWN | _ | - | CAN COMM CIRCUIT (UV00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | ı | UNKWN | 1 | 1 | - | ı | CAN COMM CIRCUIT (UV00) | 1 |
| | | | | | | | | | | | | | |

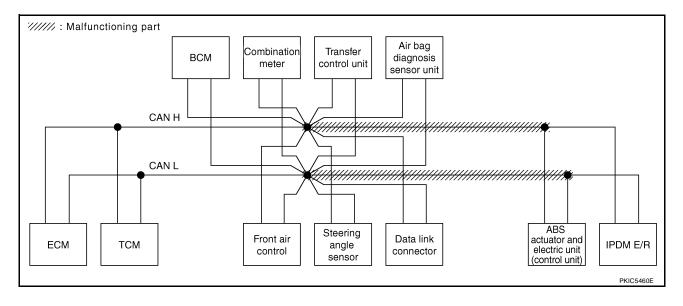


2006 Pathfinder

Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

| SELECT SYSTEM scre | Ī | | | | | | PPORT N | | | | | | |
|---------------------|----------------|----------------------|-----------------------|----------------|---------------|--------|-------------|---------------|-------|-----------------|----------------|-----------------------------|----------------------------|
| OLLEGI GIGILIA GOIL | een l | La Maria I | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| | | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | | VDC/TCS /ABS | E/K | | |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNK WN | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A /T | - | NG | UNKWN | UNKWN | _ | - | 1 | UNKWN | UNKWN | UNK W N | - | CAN COMM CIRCUIT (U 100) | _ |
| RCM I | No dication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNK W N | CAN COMM CIRCUIT (U1000) | _ |
| VIFIER I | No dication | 1 | UNKWN | UNKWN | UNKWN | - | UNKWN | ı | - | ∩ NR WN | UNK WN | CAN COMM CIRCUIT (UN00) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | _ | 1 | UNKWN | _ | ∩ NK WN | - | CAN COMM CIRCUIT (U 100) | _ |
| ABS | - | NG | UNKWN | ∩ NK WN | ΠΝΚ ΝΝ | UNK WN | - | - | UNKWN | - | - | CAN COMM CIRCUIT (U 00) | _ |
| PDM E/R inc | Ng ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |



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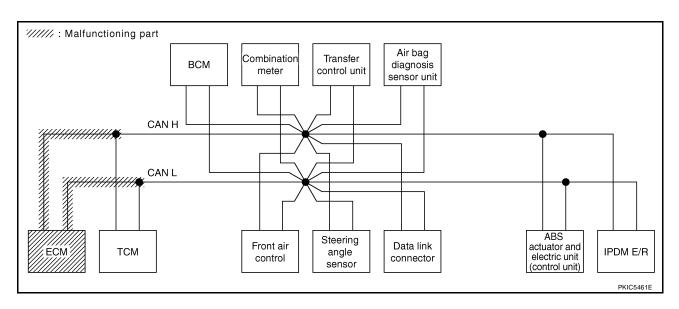
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Case 3
Check ECM circuit. Refer to <u>LAN-197, "ECM Circuit Inspection"</u>.

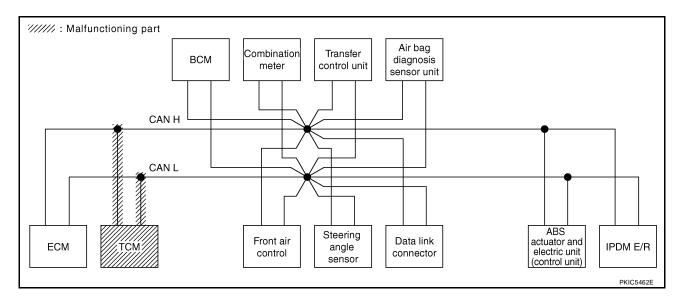
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|---------|-----------------------|----------------|--------|---------|--------------|-----------|----------------|-----------------|----------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012 | 00.00 | | Transmit diagnosis | | тсм | STRG | BCM /SEC | /M&A | | VDC/TCS /ABS | E/H | | |
| ENGINE | _ | _ | n uk wu | _ | UNK WN | - | NIKWN | UNK WN | ∩ Nk MN | n uk wu | UNK W N | CAN COMICIRCUIT (UV00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | ∩ M MN | | 1 | _ | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U 100) | _ |
| всм | No indication | NG | UNKWN | UNAWN | _ | 1 | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNK W N | UNKWN | 1 | UNKWN | ı | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | ∩ N MN | UNKWN | ı | - | UNKWN | - | UNKWN | 1 | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | ∩ NK WN | UNKWN | UNKWN | _ | - | UNKWN | _ | 1 | CAN COMM CIRCUIT (UV00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | 1 | UNKWN | ı | ı | _ | 1 | CAN COMM CIRCUIT (UV00) | _ |



LAN

Case 4
Check TCM circuit. Refer to <u>LAN-197</u>, "TCM Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|--------|---------|-------------|---------------|---------------|-----------------|-------------|-------------------------------------|---------------------------|
| SELECT SYSTEM | screen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIA | 1 301 3011 | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | GEE BING | TILOOLIO |
| ENGINE | _ | _ | UNKWN | 1 | UNK WN | ı | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | CAN COMM CIRCU (U 101) |
| A/T | _ | NG | UNKWN | UNWN | _ | _ | _ | UNK WN | NNN NN | UNK WN | - | CAN COMM CIRCUIT (U V 00) | - |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | - | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | UNK WN | ı | UNKWN | ı | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | ı |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | ı | ı | UNKWN | _ | UNKWN | ı | CAN COMM CIRCUIT (U X 00) | ı |
| ABS | _ | NG | UNKWN | UNKWN | UNK WN | UNKWN | - | _ | UNKWN | _ | 1 | CAN COMM CIRCUIT (U 00) | - |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | 1 | UNKWN | _ | _ | _ | ı | CAN COMM CIRCUIT (U1000) | ı |



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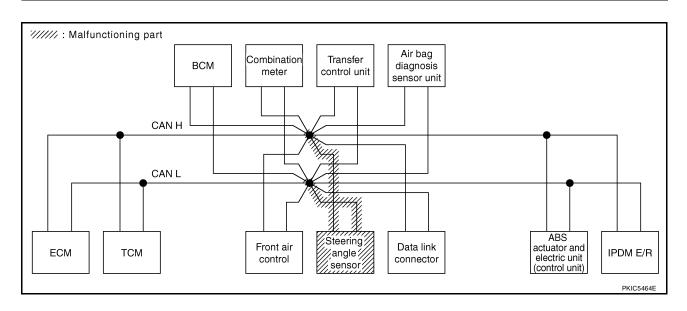
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Case 5

Check steering angle sensor circuit. Refer to LAN-199, "Steering Angle Sensor Circuit Inspection" .

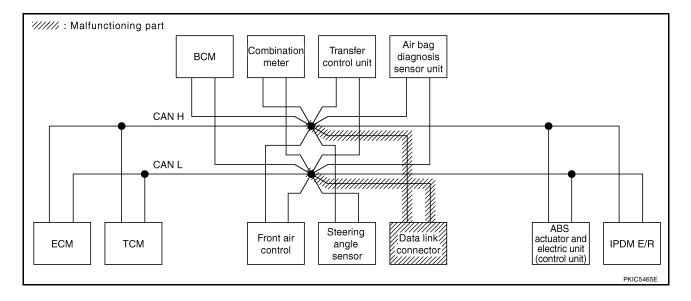
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|-------|--|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGIENI | oorcen | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | TILOULIU |
| ENGINE | ı | _ | UNKWN | _ | UNKWN | ı | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | - | NG | UNKWN | UNKWN | 1 | ı | ı | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| всм | No indication | NG | UNKWN | UNKWN | 1 | ı | ı | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | 1 | UNKWN | - | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | - | NG | UNKWN | UNKWN | UNKWN | ı | - | UNKWN | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | - | NG | UNKWN | UNKWN | UNKWN | ∩ NI \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 1 | 1 | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



LAN

Case 6
Check data link connector circuit. Refer to <u>LAN-199</u>, "<u>Data Link Connector Circuit Inspection</u>" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|-----------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | Initial | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 01110 | | diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 3221 31/10 | |
| ENGINE | - | _ | UNKWN | 1 | UNKWN | 1 | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | 1 | | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | N/ ind vation | NG | UNKWN | UNKWN | ı | - | - | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | N/ ind ation | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | ı | - | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | UNKWN | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | - | 1 | UNKWN | ı | _ | _ | - | CAN COMM CIRCUIT (U1000) | - |



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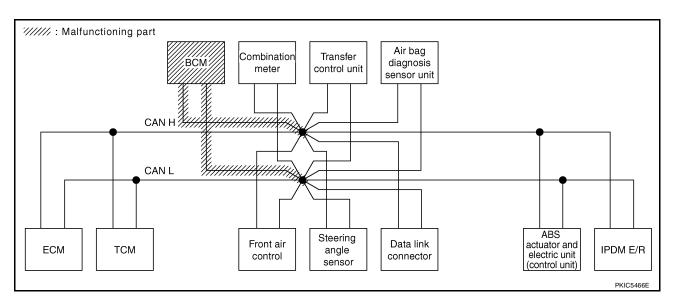
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Case 7
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

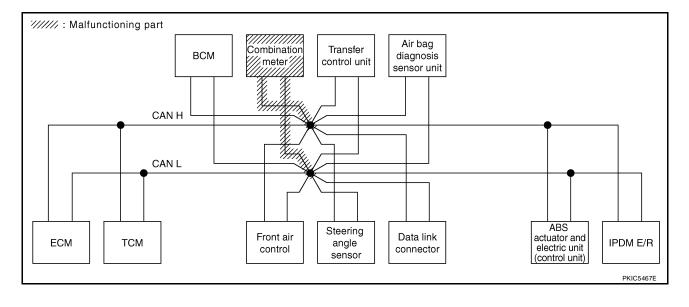
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|-----------|----------|-------|-------|---------|--------------|---------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| | | diagnosis | | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 022. 5 | |
| ENGINE | _ | _ | UNKWN | - | UNKWN | - | UNK WN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | Ng ind ation | NG | UNKWN | UNKWN | _ | 1 | - | UNKWN | ı | _ | UNKWN | CAN COMM CIRCUIT (U1000) | 1 |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | NNKWN | - | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | ı | _ | UNKWN | - | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | | ı | UNKWN | _ | ı | CAN COMM CIRCUIT (U1000) | I |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | 1 | UNK WN | 1 | _ | _ | - | CAN COMM CIRCUIT (U 100) | 1 |
| | | | | • | | | | | | | | | |



LAN

Case 8
Check combination meter circuit. Refer to <u>LAN-200, "Combination Meter Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|-------|---------|-------------|----------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | l-siai - l | T | | | | Receive of | | | | | SELE-DIAG | RESULTS |
| 022201 01012141 | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | THEODEIG |
| ENGINE | _ | _ | UNKWN | - | UNKWN | - | UNKWN | ∩ NK WN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | - | ı | ∩ M MN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U X 00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UN WN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | Ng ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | - | 1 | ∩ NR WN | _ | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | - | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | - | UNKWN | _ | _ | _ | - | CAN COMM CIRCUIT (U1000) | - |
| - | | | | | | | | • | • | | | - | |



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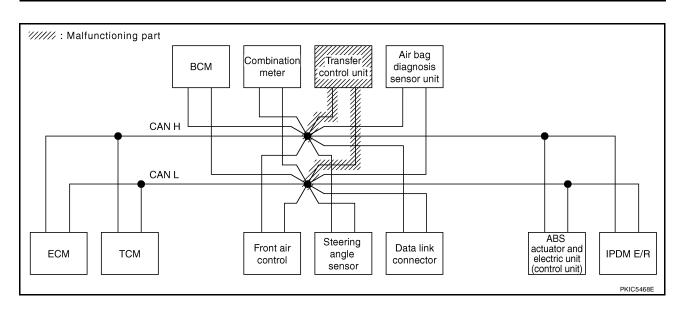
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Case 9

Check transfer control unit circuit. Refer to LAN-201, "Transfer Control Unit Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|--------|---------|-------------|----------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | to the d | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIA | oorcen | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | TILOULIU |
| ENGINE | ı | _ | UNKWN | _ | UNKWN | ı | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | - | _ | UNKWN | UNIWN | UNKWN | 1 | CAN COMM CIRCUIT (U X 00) | - |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | 1 |
| ALL MODE AWD/4WD | ı | NG | ∩ M MN | UNKWN | UNK WN | ı | - | n uk wu | _ | UNKWN | 1 | CAN COMM CIRCUIT (UN00) | - |
| ABS | - | NG | UNKWN | UNKWN | UNKWN | UNKWN | - | _ | UNWN | _ | 1 | CAN COMM CIRCUIT (U V 00) | I |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | 1 | CAN COMM CIRCUIT (U1000) | - |

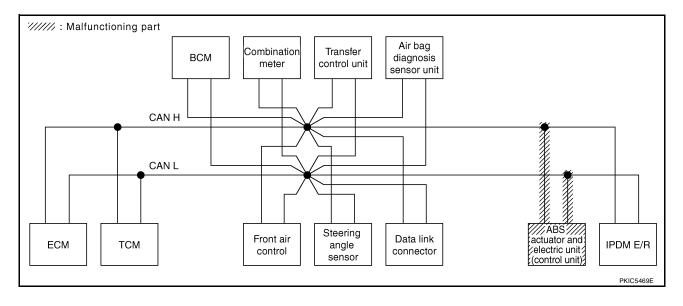


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Case 10

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

| SELECT SYSTEM screen | | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|--|------------------|--------|----------|--------------|-------|-------|---------|---------|---------------|---------|-----------------|-------------|-----------------|-----------|
| STRG | SELECT SYSTEM | screen | luiti al | Tue-10-10-14 | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| AT | 01110 | | | | ECM | ТСМ | STRG | | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 3221 31/10 | |
| BCM | ENGINE | - | _ | UNKWN | 1 | UNKWN | 1 | UNKWN | UNKWN | UNKWN | n uk wu | | (U1000) | |
| METER NO | A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | - | | _ |
| METER | ВСМ | | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | | _ |
| ABS - 1 UNIAN UNIAN UNIAN UNIAN UNIAN UNIAN CAN COMP CIRCUIT - (UNIO) - | METER | | _ | UNKWN | UNKWN | UNKWN | 1 | UNKWN | - | - | UNK WN | UNKWN | (U V 00) | - |
| ABS — WE ORAWN ORAWN ORAWN — — UNAWN — — (UM00) — | ALL MODE AWD/4WD | - | NG | UNKWN | UNKWN | UNKWN | ı | _ | UNKWN | _ | UNKWN | - | (∪ ¥ 00) | _ |
| IDDM 5 (D. NO. LINIGMA) LINIGMAN LINIGM | ABS | - | ¥ | UNK WN | UNKWN | UNKWN | UNI WN | - | - | UNWN | - | _ | (∪ ¥ 00) | _ |
| IPDM E/R | IPDM E/R | | _ | UNKWN | UNKWN | ı | ı | UNKWN | - | _ | - | 1 | | _ |
| | | | | | | | | | | | | | | PKIC5683E |



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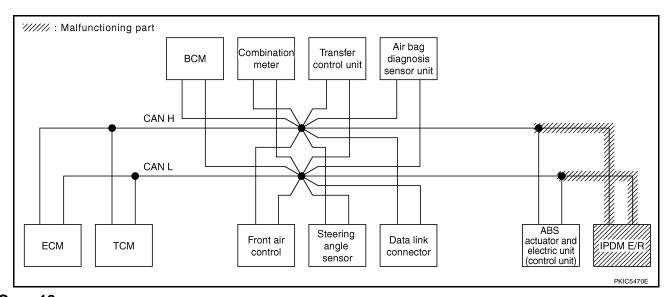
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Case 11
Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | laiki a l | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012 | 0010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI BINC | THEODERO |
| ENGINE | _ | _ | UNKWN | ı | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | | 1 | CAN COMM CIRCUIT (U1000) | - |
| BCM | No indication | NG | UNKWN | UNKWN | | 1 | - | UNKWN | - | ı | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | 1 | UNKWN | ı | ı | UNKWN | NAMO | CAN COMM CIRCUIT (U 100) | ı |
| ALL MODE AWD/4WD | _ | NG | UNKWN | UNKWN | UNKWN | 1 | - | UNKWN | - | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | UNKWN | 1 | 1 | CAN COMM CIRCUIT (U1000) | - |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | 1 | CAN COMM CIRCUIT (UV00) | _ |
| | | | | | | | | | | | | | |



Case 12
Check CAN communication circuit. Refer to <u>LAN-203, "CAN Communication Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|-----------|-----------------------|-------|----------------|---------|----------------|----------------|----------------|-----------------|----------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| | | diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 322. 3 | |
| ENGINE | - | _ | ∩ NK WN | ı | n uk wu | ı | UNK N N | UNK W N | nuk w u | ∩ NK WN | ∩ NK WN | CAN COMM CIRCUIT (U V 00) | CAN COMM CIRCUIT (UN01) |
| A/T | - | NG | UNKWN | UNKWN | _ | 1 | ı | UNK NN | nuk w u | n nk wn | 1 | CAN COMM CIRCUIT (U 100) | _ |
| всм | No indivation | NG | UNKWN | UNKWN | ı | ı | ı | UNKWN | _ | ı | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No ind ation | - | UNKWN | UNKWN | UNKWN | ı | UNKWN | | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | _ |
| ALL MODE AWD/4WD | ı | NG | UNKWN | UNKWN | UNKWN | ı | ı | UNKWN | _ | UNKWN | ı | CAN COMM CIRCUIT (UN00) | _ |
| ABS | ı | ¥ | UNK NX | UNKWN | UNK WN | UNW | ı | - | UNWN | ı | ı | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No ind ation | - | UNKWN | UNKWN | ı | I | UNKWN | - | _ | ı | ı | CAN COMM CIRCUIT (U V 00) | _ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5685E |

Revision: February 2007 LAN-129 2006 Pathfinder

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Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|----------------|---------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIM | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | TILOULIU |
| ENGINE | - | _ | UNKWN | _ | ∩ NK WN | 1 | UNKWN | UNKWN | UNKWN | nuk w u | UNKWN | CAN COMIN CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | - | - | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | ı | - | UNK WN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | ı | NG | UNKWN | UNKWN | UNKWN | ı | ı | UNKWN | ı | UNKWN | - | CAN COMM CIRCUIT (U X 00) | ı |
| ABS | ı | NG | UNKWN | UNKWN | UNKWN | UNKWN | ı | I | UNKWN | - | _ | CAN COMM CIRCUIT (U1000) | ı |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | ١ | UNKWN | ı | _ | - | 1 | CAN COMM CIRCUIT (U1000) | ı |

Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | ecroon | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| OLLEGI GIGILINI | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | TILOGLIG |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | _ | _ | _ | _ | _ | - | UNKWN | _ | CAN COMM CIRCUIT (UV00) | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | 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 (U 00) | |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | ı | UNKWN | - | _ | _ | _ | CAN COMM CIRCUIT (U1000) | I |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5687E |

CAN SYSTEM (TYPE 7)

| CAN SYSTEM (TYPE 7) | |
|--|-----------|
| , | [CAN] |
| CAN SYSTEM (TYPE 7) | PFP:23710 |
| Component Parts and Harness Connector Location | UKS0053Q |
| Refer to LAN-25, "Component Parts and Harness Connector Location". | |
| Schematic | UKS0053R |
| Refer to LAN-26, "Schematic" . | |
| Wiring Diagram — CAN — | UKS0053S |
| Refer to LAN-27, "Wiring Diagram — CAN —" | |
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CAN SYSTEM (TYPE 7)

[CAN]

Check Sheet

NOTE:

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

| CAN COMM CIRCUIT CAN COMM CI | SELECT SYSTEM screen | | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|--|--|-----------------|------------|---------|-----------|--------------------|----------------|---------|---------|---------------|--------------|--------------------|-----------|----------|-----------|
| Martin M | diagnosis diagnosis ecm TCM STRG BCM METER AWD/4WD VIABS PCM MACA MAC | SELECT SYSTEM | screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELF-DIA | G RESULTS |
| No No No UNKWN UNKWN - - UNKWN UNKWN UNKWN - CAN COMM CIRCUT (U1000) - | Attach copy of | | | | | ECM | TCM | STRG | | METER /M&A | AWD/4WD | | E/R | | |
| No indication NG UNKWN UNKWN - - UNKWN UNKWN - - UNKWN UNKWN UNKWN - - UNKWN - UNKWN - UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN - UNKWN - UNKWN UNKWN UNKWN UNKWN UNKWN - UNKWN - UNKWN - UNKWN UNKWN UNKWN - UNKWN - UNKWN - UNKWN UNKWN - UNKWN - UNKWN UNKWN - UNKWN - UNKWN UNKWN - UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN UNKWN - UNKWN UNKWN - UNKWN UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN - UNKWN | No indication No indicatio | ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | CIVICANIA | (U1000) | (U1001) |
| Indication | Indication Ind | VΤ | | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | (U1000) | _ |
| LL MODE AWD/4WD Indication - UNKWN UNKWN UNKWN - - UNKWN - CAN COMM CIRCUIT (U1000) - | Indication | ВСМ | | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | CINKWIN | (U1000) | _ |
| DINKWN UNKWN UNK | DIA E/R No | METER | indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | 1 | _ | UNKWN | UNKWN | (U1000) | _ |
| No | No | LL MODE AWD/4WD | | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | _ | UNKWN | _ | (U1000) | _ |
| ymptoms : Attach copy of Attach copy of | ymptoms : Attach copy of Attach copy of | BS | | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | ı | UNKWN | _ | | (U1000) | _ |
| Attach copy of Attach copy of | Attach copy of Attach copy of | PDM E/R | | 1 | UNKWN | UNKWN | _ | _ | UNKWN | ı | I | _ | ı | | T |
| | | | | | At SEL | itach co ECT SY | py of 'STEM | | | | Atta SELE | ich copy CT SYS | of TEM | | |
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| Attach copy of ENGINE SELF-DIAG RESULTS | Attach copy of A/T SELF-DIAG RESULTS | Attach copy of BCM SELF-DIAG RESULTS | Attach copy of 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 | Attach copy of | Attach copy of | Attach copy of |
| ENGINE | A/T | BCM | METER |
| CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT |
| MNTR | MNTR | MNTR | MNTR |
| Attach copy of | Attach copy of | Attach copy of | |
| ALL MODE AWD/4WD | ABS | IPDM E/R | |
| CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT | |
| MNTR | MNTR | MNTR | |

CHECK SHEET RESULTS (EXAMPLE)

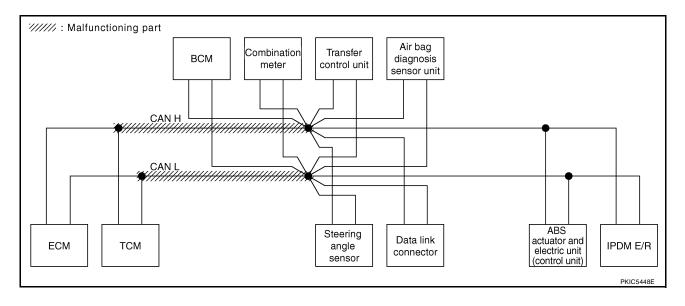
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|----------------|----------------|---------|----------------|----------------|---------|-----------------|-------------|-----------------------------|--------------------------|
| SELECT SYSTEM | screen | 1 - 11 - 1 | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGIEN | 3010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | TILOGLIO |
| ENGINE | _ | _ | UNKWN | ı | UNKWN | _ | ∩ NK WN | ∩ NK WN | UNKWN | n uk wu | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | ∩ NK WN | UNKWN | n uk wu | - | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | - | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | ∩ NK WN | ∩ NK WN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNK WN | UNK WN | UNKWN | _ | _ | _ | UNKWN | ı | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | ∩ NK WN | n uk wu | UNKWN | _ | _ | UNKWN | _ | - | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | NNKWN | _ | _ | UNKWN | _ | _ | _ | 1 | CAN COMM CIRCUIT (UN00) | _ |



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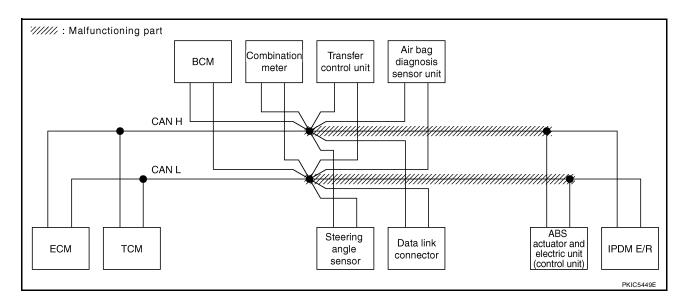
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

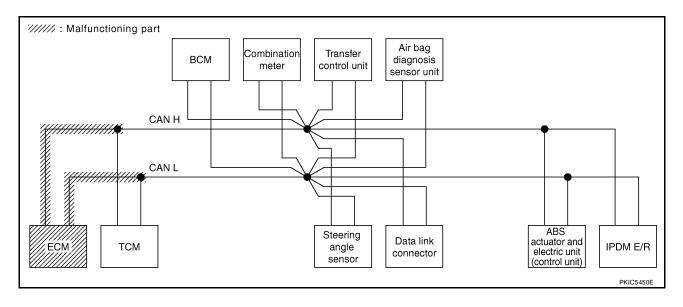
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|----------------|--------|----------------|-------------|---------------|----------------|-----------------|----------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | 1-141-1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012. | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OEEI BING | THEODERO |
| ENGINE | _ | _ | UNKWN | 1 | UNKWN | ı | UNKWN | UNKWN | UNKWN | n uk wu | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | ı | _ | UNKWN | UNKWN | n nk wn | | CAN COMM CIRCUIT (UN00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | 1 | ı | - | UNKWN | _ | _ | UNK WN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | 1 | UNKWN | _ | _ | UNK W N | ∩ NK WN | CAN COMY CIRCUIT (U V 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | - | n uk wu | 1 | CAN COMM CIRCUIT (UN00) | _ |
| ABS | _ | NG | UNKWN | ∩ NK WN | UNK WN | ∩ NK WN | _ | _ | UN K ₩N | _ | 1 | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | No ind ation | _ | UNKWN | UNKWN | ı | ı | UNKWN | _ | _ | _ | - | CAN COMM CIRCUIT (U V 00) | _ |
| | | | | | | | | | | | | | |



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Case 3
Check ECM circuit. Refer to <u>LAN-197</u>, "ECM Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|---------|-----------|----------------|----------------|---------|----------------|----------------|----------------|-----------------|----------------|-------------------------------------|--------------------------|
| SELECT SYSTEM | screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| | | | diagnosis | | TCM | STRG | BCM /SEC | /IVI&A | | VDC/TCS /ABS | E/H | | |
| ENGINE | _ | _ | UNKWN | _ | ∩ NK WN | _ | n uk wu | ∩ NK WN | ∩ NK WN | nuk w u | UNK W N | CAN COMIC CIRCUIT (UN00) | CAN COMM CIRCU (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | | UNKWN | | - | CAN COMM CIRCUIT (U 00) | _ |
| ВСМ | No indication | NG | UNKWN | n uk wu | _ | _ | _ | UNKWN | - | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | n uk wu | UNKWN | _ | UNKWN | _ | - | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | n uk wu | UNKWN | UNKWN | _ | _ | 1 | UNKWN | - | CAN COMM CIRCUIT (U 00) | _ |
| ABS | _ | NG | UNKWN | nuk % u | UNKWN | UNKWN | _ | _ | UNKWN | _ | 1 | CAN COMM CIRCUIT (U 100) | - |
| IPDM E/R | No indication | _ | UNKWN | UNK ₩N | _ | _ | UNKWN | 1 | 1 | _ | ı | CAN COMM CIRCUIT (U V 00) | ı |
| | | | | | | | | | | | | | |



CAN SYSTEM (TYPE 7)

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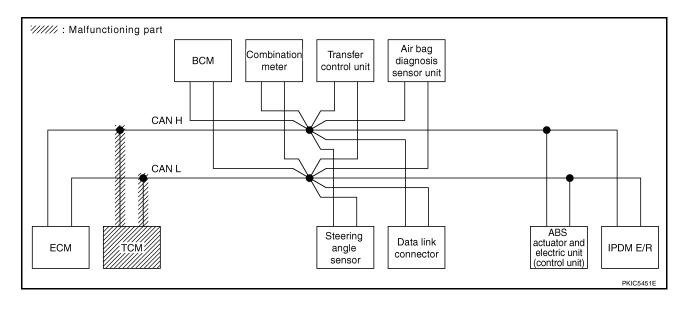
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Case 4
Check TCM circuit. Refer to <u>LAN-197</u>, "TCM Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|-----------|-----------------------|--------|----------------|---------|-------------|---------------|----------------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | 1 screen | Initial | Tuomomit | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| | | diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 3221 31/10 | |
| ENGINE | _ | _ | UNKWN | - | UNK WN | - | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNK WN | _ | _ | _ | UNK WN | n nk wu | nuk w u | _ | CAN COMM CIRCUIT (UN00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | ∩ NK WN | ı | UNKWN | ı | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNK WN | UNKWN | 1 | 1 | ı | UNKWN | 1 | CAN COMM CIRCUIT (U V 00) | ı |
| ABS | _ | NG | UNKWN | UNKWN | UNK WN | UNKWN | ı | ı | UNKWN | _ | 1 | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | | ı | UNKWN | ı | I | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |

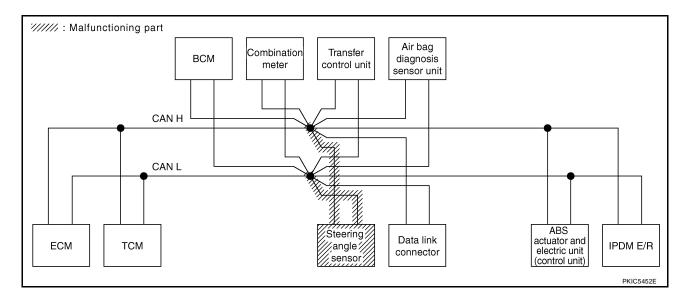


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Case 5
Check steering angle sensor circuit. Refer to <u>LAN-199</u>, "Steering Angle Sensor Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | 1 | _ | | | | Receive of | diagnosis | | | | SELF-DIAG | RESULTS |
| CLLCT CTCTLW | Sorcon | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNIWN | | - | _ | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNI WN | | _ | UNKWN | - | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | - | ı | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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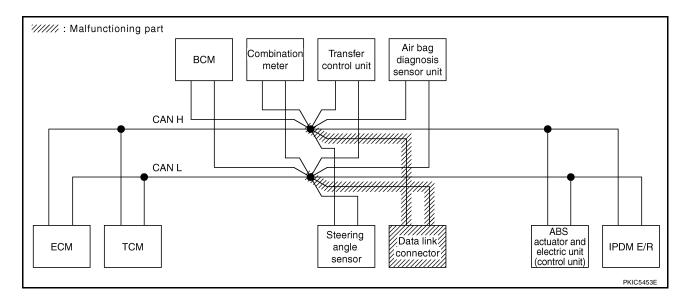
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Case 6

Check data link connector circuit. Refer to LAN-199, "Data Link Connector Circuit Inspection".

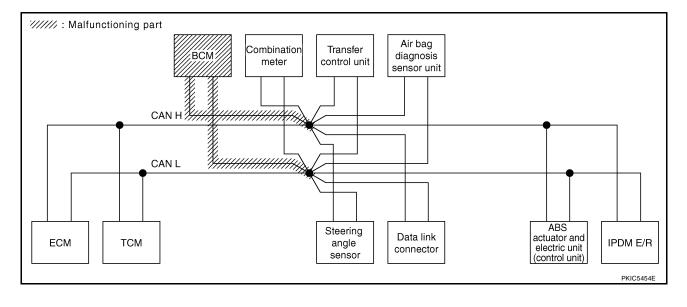
| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | | | | | | Receive of | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 010121 | | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OEEI BINC | THEODEIG |
| ENGINE | _ | _ | UNKWN | 1 | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | ı | _ | 1 | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| BCM | No ind Nation | NG | UNKWN | UNKWN | 1 | ı | ı | UNKWN | ı | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indivation | _ | UNKWN | UNKWN | UNKWN | 1 | UNKWN | _ | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No ind Nation | _ | UNKWN | UNKWN | UNKWN | UNKWN | 1 | 1 | _ | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | 1 | 1 | UNKWN | - | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No ind Nation | _ | UNKWN | UNKWN | _ | _ | UNKWN | - | _ | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |



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Case 7
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|------------------|-----------|-----------------------|-------|-------|---------|----------------|---------------|---------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | screen | Initial | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 022201 01012. | | diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | . 11200210 |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | ∩ NK WN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | _ | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | Ng ind ation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | n uk wu | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | - | UNKWN | ı | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | 1 | UNK WN | _ | _ | _ | 1 | CAN COMM CIRCUIT (UN00) | _ |
| | | | | | | | | | | | | | |



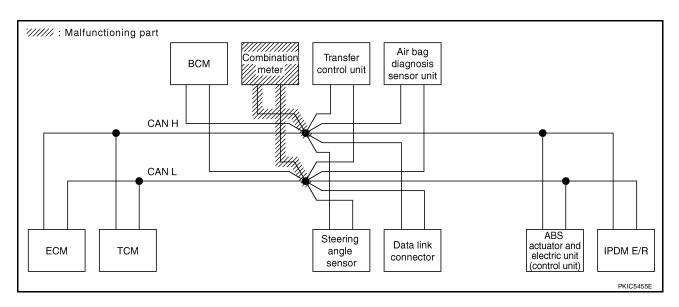
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Case 8
Check combination meter circuit. Refer to <u>LAN-200</u>, "Combination Meter Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|-------|-------|---------|-------------|----------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | l screen | laitial | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 010121 | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 3221 31/10 | . 1120210 |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | n uk wu | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | _ | UNK WN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | ı | - | ı | UNK WN | ı | - | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indivation | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | _ | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | ı | - | ı | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | 1 | - | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | ı | UNKWN | ı | ı | ı | - | CAN COMM CIRCUIT (U1000) | - |
| | | | | | | | | | | | | | |

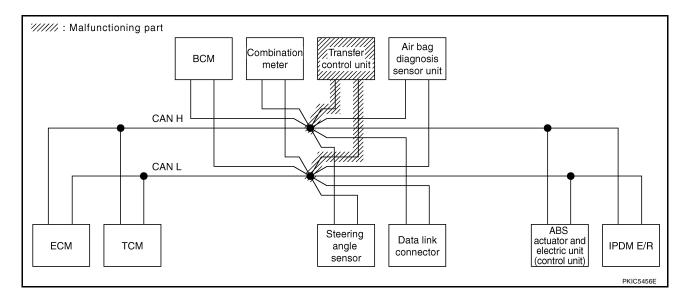


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Case 9
Check transfer control unit circuit. Refer to <u>LAN-201</u>, "<u>Transfer Control Unit Circuit Inspection</u>".

| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|----------------------|-----------------|----------------------|-----------------------|-------|-------|---------|-------------|-------------------|----------------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM screen | | | | | | | Receive | SELF-DIAG RESULTS | | | | | |
| | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELF-DIAG RESULIS | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | ∩ NK WN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U 100) | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | Ng ind ation | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (U 00) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNK % N | _ | - | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | ı | UNKWN | ı | 1 | 1 | ı | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5697E |



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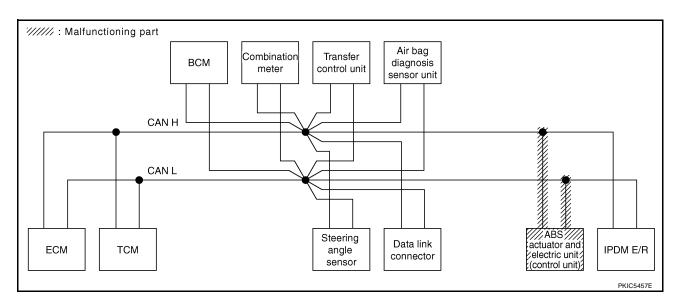
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Case 10

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

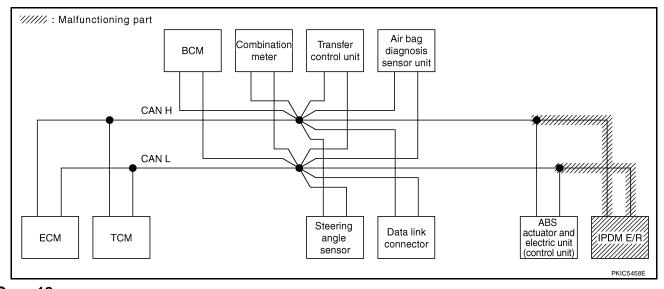
| SELECT SYSTEM screen | | | | | | | | | | | | | |
|----------------------|---------------|----------------------|-----------------------|--------|--------|----------------|-------------|-------------------|----------------|-----------------|-------------|-----------------------------|----------------------------|
| | | Initial diagnosis | Transmit diagnosis | | | | Receive | SELF-DIAG RESULTS | | | | | |
| | | | | | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | CEE BING NEOCETO | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | ∩ NK WN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | ı | ı | UNKWN | UNKWN | UNK WN | 1 | CAN COMM CIRCUIT (UN00) | - |
| ВСМ | No indication | NG | UNKWN | UNKWN | ı | ı | ı | UNKWN | ı | ı | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | ı | ı | UNK WN | UNKWN | CAN COMM CIRCUIT (UN00) | - |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | ı | ı | ı | UNKWN | 1 | CAN COMM CIRCUIT (UV00) | - |
| ABS | _ | ₩ | UNK WN | UNK WN | UNK WN | n uk wu | 1 | 1 | UN ™ WN | 1 | 1 | CAN COMM CIRCUIT (UV00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | - | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |



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Case 11
Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection".

| SELECT SYSTEM screen | | CAN DIAG SUPPORT MNTR | | | | | | | | | | | |
|----------------------|------------------|-----------------------|-----------------------|-------|-------|-------|-------------|-------------------|---------|-------|----------------|-------------------------------------|--------------------------|
| | | Initial diagnosis | Transmit diagnosis | | | | Receive of | SELF-DIAG RESULTS | | | | | |
| | | | | | ТСМ | STRG | BCM /SEC | /IVI&A | AWD/4WD | /ABS | E/K | | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | n uk wu | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | | UNKWN | UNKWN | _ | CAN COMM CIRCUIT | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | 1 | UNKWN | ∩ NK WN | CAN COMM CIRCUIT (U V 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | - | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indivation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | - | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| | | | | | | | | | | | | | |



Case 12
Check CAN communication circuit. Refer to <u>LAN-203, "CAN Communication Circuit Inspection"</u>.

| SELECT SYSTEM screen | | een Initial diagnosis | Transmit sdiagnosis | | | | Receive | SELF-DIAG RESULTS | | | | | |
|----------------------|------------------|--------------------------|------------------------|----------------|--------|--------------|----------------|-------------------|----------------|-----------------|----------------|-------------------------------------|----------------------------|
| | | | | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SEEL BING NEODELO | |
| ENGINE | _ | _ | ∩ NK WN | _ | UNK WN | _ | ∩ NK WN | ∩ NK WN | ∩ NR WN | NN WN | ∩ NK WN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | ∩ NK WN | _ | _ | _ | UNKWN | NN WN | UNK WN | - | CAN COMM CIRCUIT (UN00) | _ |
| ВСМ | No indivation | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | - | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | N/ ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | Ng indivation | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (UN00) | _ |
| ABS | _ | ₩ | UNK WN | UNK WN | UNK WN | NN WN | _ | _ | ∩ NK WN | _ | - | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | I | ı | UNKWN | I | | ı | ı | CAN COMM CIRCUIT (U V 00) | - |
| | | | | | | | | | | | | | |

CAN SYSTEM (TYPE 7)

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Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|----------------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | latiki a l | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012 | | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 3221 31110 | THEODERO |
| ENGINE | _ | _ | UNKWN | ı | UNK W N | ı | UNKWN | UNKWN | UNKWN | n uk wu | UNKWN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | ı | ı | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | - |
| ВСМ | No indication | NG | UNKWN | UNKWN | ı | ı | ı | UNKWN | ı | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | ı | 1 | UNK WN | UNKWN | CAN COMM CIRCUIT (U 100) | Ι |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | ı | ı | l | UNKWN | - | CAN COMM CIRCUIT (UV00) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | 1 | ı | UNKWN | _ | - | CAN COMM CIRCUIT (U1000) | - |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | ı | UNKWN | ı | I | _ | 1 | CAN COMM CIRCUIT (U1000) | - |
| | | | | | | | | | | | | | |

Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | 1141-1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | BESUITS |
| 022201 01012. | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 0221 31710 | |
| ENGINE | _ | _ | NG UNKWN | _ | UNKWN | ı | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | _ | 1 | - | _ | - | _ | UNKWN | 1 | CAN COMM CIRCUIT (UN00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | _ | UNKWN | - | _ | _ | _ | _ | _ | CAN COMM CIRCUIT (UN00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | 1 | ı | UNKWN | - | _ | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |

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CAN SYSTEM (TYPE 8)

CAN SYSTEM (TYPE 8) Component Parts and Harness Connector Location Refer to LAN-25, "Component Parts and Harness Connector Location" Schematic Refer to LAN-26, "Schematic" Wiring Diagram — CAN —

Refer to LAN-27, "Wiring Diagram — CAN —".

CAN SYSTEM (TYPE 8)

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Check Sheet

NOTE:

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

| Check sheet table | - | | | | 041 | DIAG SU | DDODT • | MNTD | | | | <u> </u> | |
|-------------------|------------------|----------------------|-----------------------|--------------------|----------------|---------|-------------|-----------|---------|--------------------|-------------|-----------------------------|----------------------------|
| | | | | | CAN | DIAG SU | | diagnosis | | | | | |
| SELECT SYSTEM | | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELF-DIAC | RESULTS |
| NGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (U1001) |
| т | - | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | |
| CM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ETER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| LL MODE AWD/4WD | No indication | - | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | ı | UNKWN | İ | CAN COMM CIRCUIT (U1000) | _ |
| BS | 1 | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| DM E/R | No indication | - | UNKWN | UNKWN | ı | _ | UNKWN | _ | - | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| | | | Af SEL | tach cop ECT SY | oy of 'STEM | | | | | ach copy CT SYS | | | |
| | | | | | | | | | | | | | |

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

[CAN]

CHECK SHEET RESULTS (EXAMPLE)

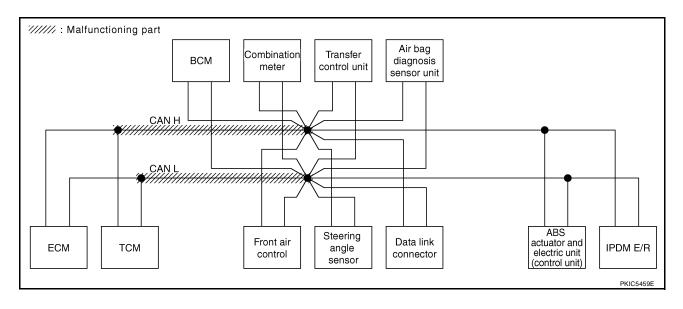
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|---------|----------|----------------|----------------|---------|----------------|----------------|----------------|-----------------|----------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | Screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012. | diagnosis diag | | | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 0221 31710 | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | ∩ NK WN | ∩ NK WN | n uk wu | ∩ NK WN | ∩ NK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | _ | ∩ NK WN | n nk wu | n nk wn | - | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | n uk wu | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | n uk wu | UNK WN | UNKWN | - | - | _ | UNKWN | - | CAN COMM CIRCUIT (U 00) | _ |
| ABS | _ | NG | UNKWN | UNKWN | n uk wu | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNK W N | 1 | _ | UNKWN | 1 | - | _ | 1 | CAN COMM CIRCUIT (U V 00) | 1 |
| • | • | | • | • | • | | • | | | • | | | |



Revision: February 2007 LAN-149 2006 Pathfinder

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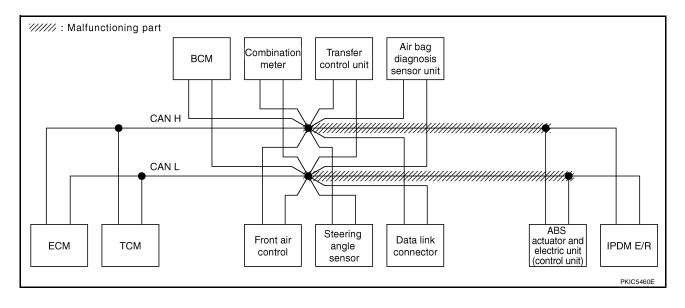
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

| SELECT SYSTEM | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|----------------|--------|----------------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT STSTEW | coroon | | | | | | Receive | diagnosis | | | | SELF-DIAG | DECHITO |
| | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELI-DIAC | THESOLIS |
| ENGINE | _ | _ | UNKWN | 1 | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNK WN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | _ | UNKWN | UNKWN | | _ | CAN COMM CIRCUIT (UN00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | _ | UNK WN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | - | UNK WN | UNKWN | CAN COMY CIRCUIT (U V 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | 1 | UNKWN | _ | CAN COMM CIRCUIT (UN00) | _ |
| ABS | _ | NG | UNKWN | ∩ NK WN | UNK WN | ∩ NK WN | _ | _ | UNKWN | - | _ | CAN COMM CIRCUIT (UV00) | _ |
| IPDM E/R | No indivation | _ | UNKWN | UNKWN | _ | - | UNKWN | _ | - | - | _ | CAN COMM CIRCUIT (UV00) | _ |
| | | | | | | | | | | | | | |



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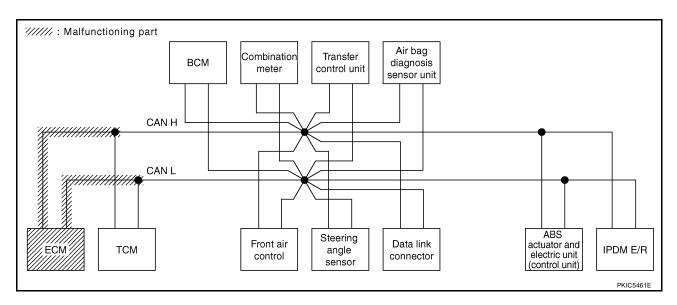
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Case 3
Check ECM circuit. Refer to <u>LAN-197, "ECM Circuit Inspection"</u>.

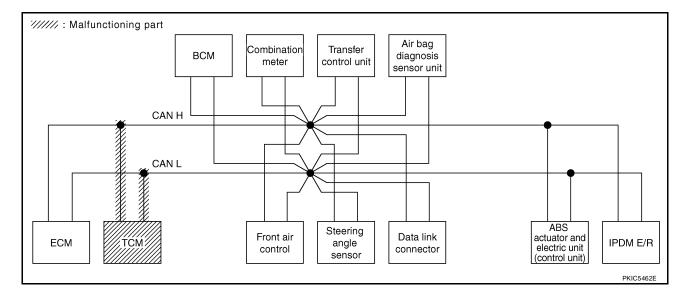
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|---------|-----------------------|----------------|----------------|---------|----------------|----------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| | | | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 022, 5,710 | TREGOLIO |
| ENGINE | _ | _ | n uk wu | _ | ∩ NK WN | _ | ∩ NK WN | n uk wu | UNK WN | n uk wu | UNK WN | CAN COMM CIRCUIT (U 00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | n nk wn | - | - | - | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U 00) | - |
| BCM | No indication | NG | UNKWN | Ω NK ₩N | 1 | ı | 1 | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | ΠΝΚ ΜΝ | UNKWN | 1 | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | n nk wu | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (UV00) | - |
| ABS | _ | NG | UNKWN | n uk wu | UNKWN | UNKWN | - | _ | UNKWN | _ | 1 | CAN COMM CIRCUIT (UV00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNK₩N | ı | ı | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U V 00) | _ |
| | | | | | | | | | | | | | |



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Case 4
Check TCM circuit. Refer to <u>LAN-197, "TCM Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|-----------|-----------------------|--------|----------------|---------|-------------|----------------|---------|-----------------|-------------|-------------------------------------|---------------------------|
| SELECT SYSTEM | screen | Initial | Tunananit | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 0.22.07.07.2.0 | | diagnosis | Transmit diagnosis | | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 3221 31/10 | |
| ENGINE | _ | _ | UNKWN | _ | ∩ NK WN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNK WN | _ | _ | - | n uk wu | UNKWN | n uk wu | _ | CAN COMM CIRCUIT (U 100) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | 1 | _ | - | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | ∩ NK WN | ı | UNKWN | ı | - | UNKWN | UNKWN | CAN COMM CIRCUIT (U N 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNK WN | UNKWN | - | _ | _ | UNKWN | _ | CAN COMM CIRCUIT (U V 00) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNK WN | UNKWN | - | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U 100) | - |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | - |
| | | | | | | | | | | | | | |



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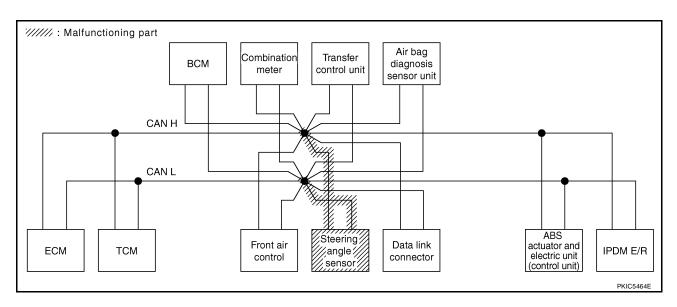
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Case 5
Check steering angle sensor circuit. Refer to <u>LAN-199</u>, "Steering Angle Sensor Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | 1-141-1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012. | 00.00 | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 0221 31/10 | |
| ENGINE | _ | | UNKWN | ı | UNKWN | I | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | - | ı | ı | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U1000) | ı |
| BCM | No indication | NG | UNKWN | UNKWN | 1 | ı | ı | UNKWN | ı | ı | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | 1 | - | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNIWN | - | 1 | _ | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNIWN | _ | _ | UNKWN | _ | - | CAN COMM CIRCUIT (U1000) | - |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | - | ı | UNKWN | - | 1 | - | - | CAN COMM CIRCUIT (U1000) | ı |
| | | | | | | | | | | | | | |

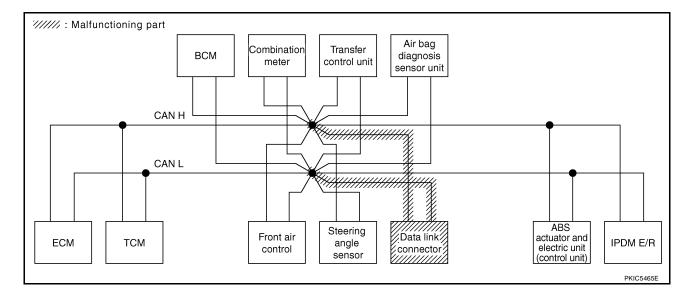


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Case 6
Check data link connector circuit. Refer to <u>LAN-199</u>, "<u>Data Link Connector Circuit Inspection</u>" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | | + | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| olles of ordina | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | THEODEIG |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| всм | No ind ation | NG | UNKWN | UNKWN | ı | ı | ı | UNKWN | ı | ı | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | ı | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No ind Nation | _ | UNKWN | UNKWN | UNKWN | UNKWN | ı | ı | ı | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | ı | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No ind Nation | _ | UNKWN | UNKWN | ı | 1 | UNKWN | _ | ı | ı | I | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5694E |



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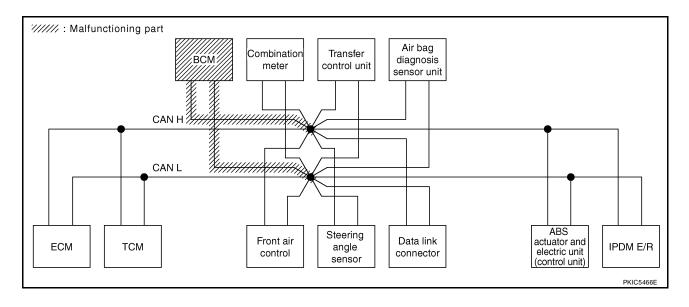
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Case 7
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

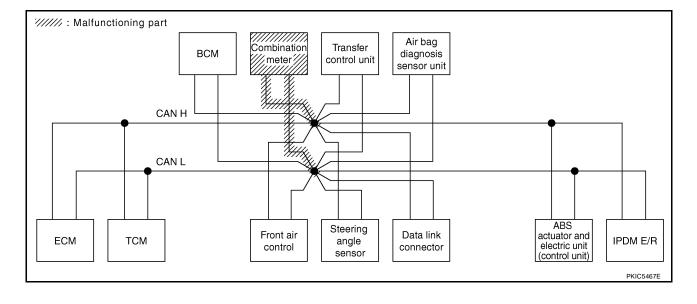
| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|-------|---------|----------------|---------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | latit at | Tue-10-12-12 | | | | Receive | diagnosis | | | | SELF-DIAG | BESUITS |
| 022201 01012. | | Initial diagnosis | Transmit diagnosis | | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 0221 31710 | 11120210 |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | ∩ NK WN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | 1 | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | - |
| ВСМ | Ng ind ation | NG | UNKWN | UNKWN | 1 | - | ı | UNKWN | ı | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | ı | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | ı | ı | ı | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | 1 | 1 | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | 1 | UNKWN | UNKWN | - | ı | UNKWN | ı | I | _ | ı | CAN COMM CIRCUIT (U 00) | _ |
| | | | | | | | | | | | | | |



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Case 8
Check combination meter circuit. Refer to <u>LAN-200, "Combination Meter Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|-----------|-----------------------|-------|-------|---------|-------------|----------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | 1 screen | Initial | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| 022201 01012 | . 00.00 | diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | ∩ NK WN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | ∩ NK WN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (UN00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | - | Π ΛΚW N | - | - | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | 1 | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | | _ | UNKWN | _ | 1 | 1 | 1 | CAN COMM CIRCUIT (U1000) | 1 |
| | | | | | | | | | | | | | |



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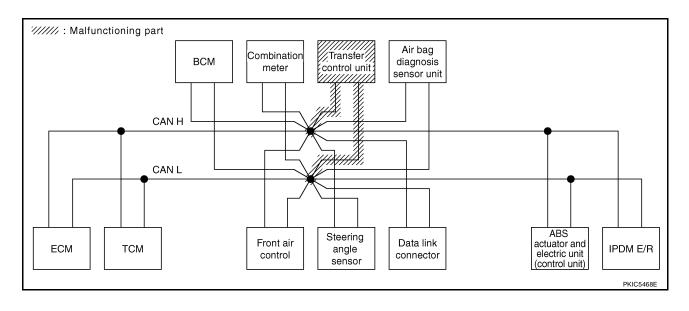
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Case 9

Check transfer control unit circuit. Refer to LAN-201, "Transfer Control Unit Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|-----------------|-----------|----------|-------|-------|---------|-------------|---------------|----------------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | 1 screen | Initial | Transmit | | | | Receive | diagnosis | | | | SELF-DIAG | BESULTS |
| | | diagnosis | | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 022. 5.7.10 | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | - | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | - | _ | UNKWN | nnkwn | UNKWN | - | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | - | ı | ı | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | - | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | Ng ind ation | _ | UNKWN | UNKWN | UNKWN | UNKWN | ı | _ | _ | UNKWN | ı | CAN COMM CIRCUIT (UV00) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | - | _ | UNK W N | _ | 1 | CAN COMM CIRCUIT (UV00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | ı | ı | UNKWN | 1 | _ | _ | ı | CAN COMM CIRCUIT (U1000) | - |
| | | | | | | | | | | | | | |

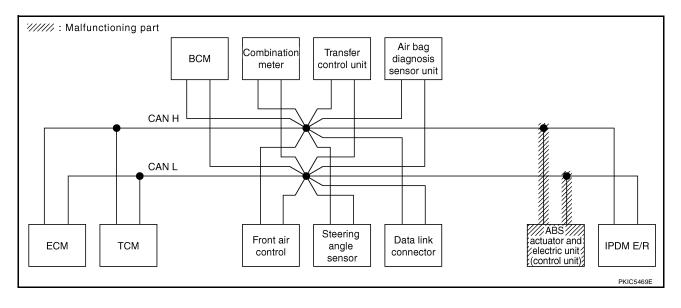


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Case 10

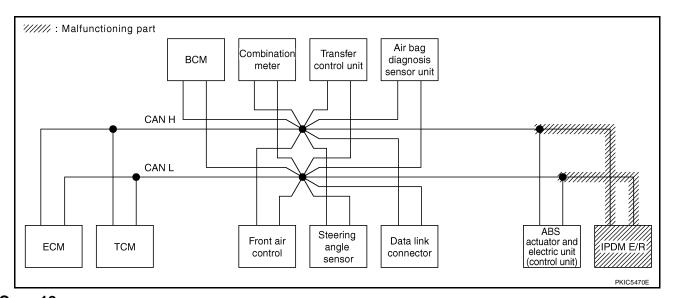
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|----------------|----------------|----------------|-------------|---------------|--------------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | Screen | 1.00.1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIA | 10010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | n uk wu | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | n uk wu | _ | CAN COMM CIRCUIT (U X 00) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | _ | _ | n uk wu | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | - | Π ΛΚ ΜΝ | _ | CAN COMM CIRCUIT (UV00) | _ |
| ABS | _ | V | n uk wu | ∩ NK WN | n uk wu | n uk wu | _ | _ | NN WN | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | - | - | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |



Case 11
Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|-------|---------|-------------|-----------|-------|-----------------|----------------|---|----------------------------|--|
| SELECT SYSTEM | l screen | 1-20-1 | T 1 | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS | |
| OLLEGI GIGILIA | roorcon | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | /IVI&A | | VDC/TCS /ABS | E/K | | | |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | ∩ NK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) | |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | 1 | | | UNKWN | _ | CAN COMM CIRCUIT | _ | |
| ВСМ | No indication | NG | UNKWN | UNKWN | - | - | ı | UNKWN | ı | _ | UNKWN | CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U100) | | |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | ı | - | UNKWN | UNK WN | CAN COMM CIRCUIT (U 100) | _ | |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | ı | ı | ı | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ | |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | 1 | 1 | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | _ | |
| IPDM E/R | No ind ation | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | 1 | CAN COMM CIRCUIT (U 00) | _ | |
| | | | | | | | | | | | | | | |



Case 12
Check CAN communication circuit. Refer to <u>LAN-203</u>, "CAN Communication Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|------------------|-----------|-----------------------|----------------|--------|---------------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| | | diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | - | UNK WN | UNKWN | UNKWN | UNK WN | UNK WN | CAN COMM CIRCUIT (U V 00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | ∩ /k ₩N | 1 | _ | - | UNKWN | NN WN | UNKWN | 1 | CAN COMM CIRCUIT (UN00) | _ |
| всм | No indivation | NG | UNKWN | UNKWN | ı | ı | ı | UNKWN | ı | ı | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | N ind ation | 1 | UNKWN | UNKWN | UNKWN | ı | UNKWN | l | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U N 00) | _ |
| ALL MODE AWD/4WD | Ng ind vation | _ | UNKWN | UNKWN | UNKWN | UNKWN | - | ı | - | UNKWN | ı | CAN COMM CIRCUIT (UN00) | _ |
| ABS | _ | ₩ | UNKWN | UNK WN | UNK WN | ∩ N MN | ı | l | UNKWN | - | ı | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | - | _ | UNKWN | _ | _ | _ | - | CAN COMM CIRCUIT (U V 00) | _ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5700E |

Revision: February 2007 LAN-159 2006 Pathfinder

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Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-204, "IPDM E/R Ignition Relay Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|-------|----------------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | screen | 1 | T | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIA | 0010011 | Initial diagnosis | Transmit diagnosis | | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI BINC | TILOGETO |
| ENGINE | _ | _ | UNKWN | _ | UNK W N | _ | UNKWN | UNKWN | UNKWN | ∩ NK WN | UNKWN | CAN COMM CIRCUIT (U 100) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNK W N | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | - |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | CAN COMM CIRCUIT (U 00) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | - | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | , | |

Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILINI | | Initial diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OEEI BINC | THEODERO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | _ | _ | _ | - | - | _ | UNKWN | | CAN COMM CIRCUIT (UN00) | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | ı | UNKWN | ı | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | 1 | ı | - | UNKWN | ı | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | - | UNKWN | _ | ı | ı | ı | _ | ı | CAN COMM CIRCUIT (UN00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | ı | - | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5702E |
| | | | | | | | | | | | | | 71007022 |

CAN SYSTEM (TYPE 9)

| CAN SYSTEM (TYPE 9) | |
|--|------------|
| | [CAN] |
| CAN SYSTEM (TYPE 9) | PFP:23710 |
| Component Parts and Harness Connector Location | UKS0051W |
| Refer to LAN-25, "Component Parts and Harness Connector Location". | |
| Schematic | UKS0051X |
| Refer to LAN-26, "Schematic" . | |
| Wiring Diagram — CAN — | UKS0051Y C |
| Refer to LAN-27, "Wiring Diagram — CAN —". | |
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CAN SYSTEM (TYPE 9)

[CAN]

Check Sheet

NOTE:

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

| SELECT SYSTEM NGINE /T CM ETER LL MODE AWD/4WD UTO DRIVE POS. BS PDM E/R | — No indication No indication | Initial diagnosis — NG NG | Transmit diagnosis UNKWN | ECM | | | PPORT M Receive | | | | | | |
|--|--------------------------------------|---------------------------------------|---------------------------------|-------|-------|-------|--------------------|-------------|--------------|--------------------|-------------|-----------------------------|---------------------------|
| NGINE /T CM ETER LL MODE AWD/4WD UTO DRIVE POS. BS | — No indication No indication | diagnosis — NG | diagnosis UNKWN | ECM | | | | ulagillosis | | | | | 0 DE0111T0 |
| CM ETER LL MODE AWD/4WD UTO DRIVE POS. BS | No indication No indication | NG | | | TCM | STRG | BCM /SEC | | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELF-DIA | G RESULTS |
| CM ETER LL MODE AWD/4WD UTO DRIVE POS. BS | No indication No indication | | | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U1001) |
| ETER LL MODE AWD/4WD UTO DRIVE POS. BS | indication No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| LL MODE AWD/4WD UTO DRIVE POS. BS | indication | ''` | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| UTO DRIVE POS. | | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| BS | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| PDM E/R | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |
| | | | Attach copy of SELECT SYSTEM | | | | | | Atta SELE | ach copy CT SYS | of TEM | | |
| | | | | | | | | | | | | | |

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| Attach copy of ENGINE SELF-DIAG RESULTS | Attach copy of A/T SELF-DIAG RESULTS | Attach copy of BCM SELF-DIAG RESULTS | Attach copy of METER SELF-DIAG RESULTS |
|---|--|---|---|
| Attach copy of ALL MODE AWD/4WD SELF-DIAG RESULTS | Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS | Attach copy of ABS SELF-DIAG RESULTS | Attach copy of IPDM E/R SELF-DIAG RESULTS |
| Attach copy of | Attach copy of A/T CAN DIAG SUPPORT MNTR | Attach copy of | Attach copy of |
| ENGINE | | BCM | METER |
| CAN DIAG SUPPORT | | CAN DIAG SUPPORT | CAN DIAG SUPPORT |
| MNTR | | MNTR | MNTR |
| Attach copy of | Attach copy of | Attach copy of | Attach copy of |
| ALL MODE AWD/4WD | AUTO DRIVE POS. | ABS | IPDM E/R |
| CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT |
| MNTR | MNTR | MNTR | MNTR |

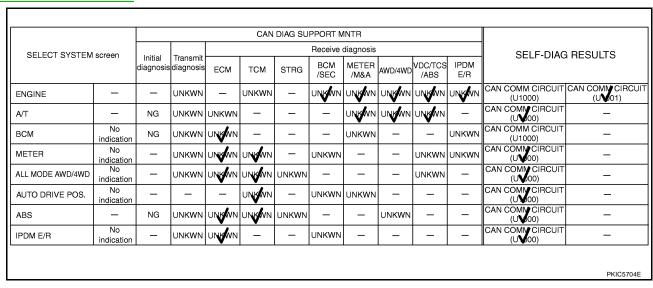
CHECK SHEET RESULTS (EXAMPLE)

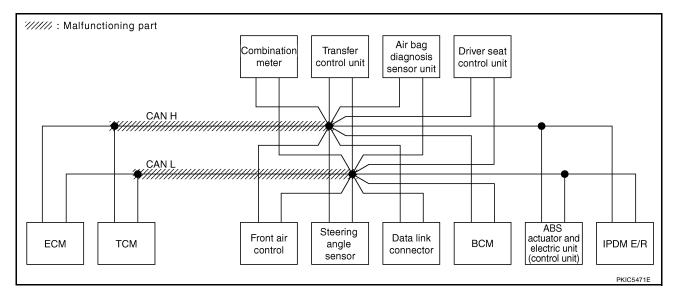
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.





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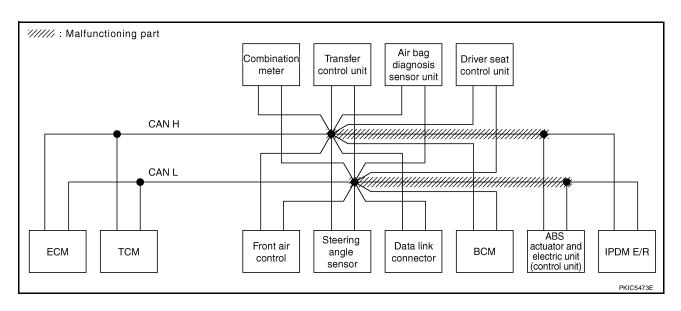
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

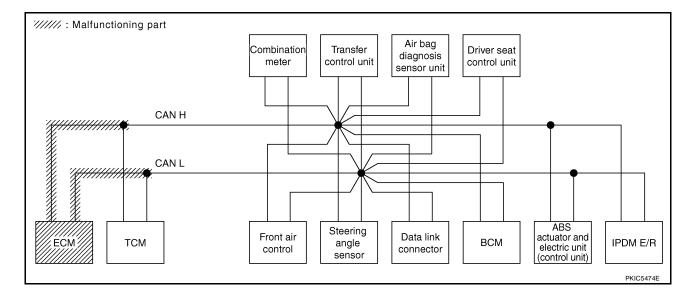
| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|--------|---------|-------------|---------------|---------|-----------------|----------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | 1-24-1 | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 011101011 | 00,00 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 3221 31110 | . 1120210 |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | ∩ NK WN | ∩ NK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | - | _ | UNKWN | UNKWN | n uk wu | _ | CAN COMM CIRCUIT (U X 00) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | - | 1 | _ | UNKWN | _ | - | UNK WN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | _ | | UNYWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | - | _ | - | UNKWN | 1 | CAN COMM CIRCUIT (U V 00) | _ |
| AUTO DRIVE POS. | No indication | _ | ı | 1 | UNKWN | ı | UNKWN | UNKWN | ı | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNK WN | UNKWN | - | _ | UNKWN | _ | - | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | ı | ı | UNKWN | _ | _ | - | - | CAN COMM CIRCUIT (U V 00) | _ |
| | | | | | | | | | | | | | |



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Case 3
Check ECM circuit. Refer to <u>LAN-197</u>, "ECM Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|----------------|-----------------|---------|----------------|----------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | l screen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIA | roorcon | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | THEODEIG |
| ENGINE | _ | _ | n nk wn | ı | UNK ∕ WN | _ | ∩ NK WN | ∩ NK WN | UNKWN | UNK WN | UNK WN | CAN COMM CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | ∩ N MN | - | _ | _ | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U 100) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | - |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNK WN | UNKWN | UNKWN | _ | _ | _ | UNKWN | 1 | CAN COMM CIRCUIT (UV00) | - |
| AUTO DRIVE POS. | No indication | _ | - | ı | UNKWN | _ | UNKWN | UNKWN | ı | - | 1 | CAN COMM CIRCUIT (U1000) | - |
| ABS | _ | NG | UNKWN | n uk wu | UNKWN | UNKWN | _ | _ | UNKWN | - | - | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNI WN | _ | _ | UNKWN | 1 | _ | _ | _ | CAN COMM CIRCUIT (U V 00) | - |
| | | | | | | | | | | | | | |



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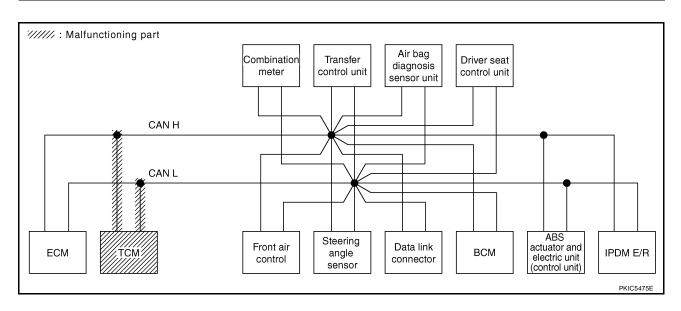
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Case 4
Check TCM circuit. Refer to <u>LAN-197</u>, "TCM Circuit Inspection" .

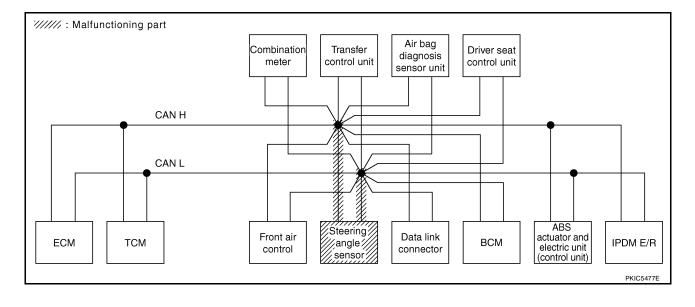
| SELECT SYSTEM Screen | | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|---|------------------|---------------|------------|-------|----------------|----------------|---------|---------|----------------|---------|-----------------|-------------|-----------------------------|-----------|
| ENGINE | SELECT SYSTEM | screen | 1 - 22 - 1 | T | | | | Receive | - | | | | SELE-DIAG | RESULTS |
| ATT | OLLEGI GIGILIN | oorcon | | | | ТСМ | STRG | | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINO | TILOULIU |
| BCM | ENGINE | _ | _ | UNKWN | _ | UNK WN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | | |
| METER | A/T | _ | NG | UNKWN | n nk wu | - | _ | - | n uk wu | nukwu | | _ | (LI V 00) | _ |
| METER | ВСМ | | NG | UNKWN | UNKWN | ı | _ | ı | UNKWN | ı | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD indication - UNKWN UNKWN UNKWN UNKWN - - - UNKWN - UNKWN - CAN COMM CIRCUIT - CAN COMM CIRCUIT - CAN COMM CIRCUIT - CAN COMM CIRCUIT - | METER | | _ | UNKWN | UNKWN | UNIVIN | _ | UNKWN | _ | ı | UNKWN | UNKWN | | _ |
| ABS - NG UNKWN UNKWN UNKWN UNKWN UNKWN CAN COMM CIRCUIT NO | ALL MODE AWD/4WD | - | _ | UNKWN | UNKWN | ∩ NK WN | UNKWN | - | _ | - | UNKWN | _ | | _ |
| ABS - NG UNKWN UNKWN UNKWN UNKWN (UV00) - | AUTO DRIVE POS. | - | _ | _ | _ | UNK WN | _ | UNKWN | UNKWN | _ | _ | _ | | _ |
| | ABS | _ | NG | UNKWN | UNKWN | ∩ NK WN | UNKWN | - | _ | UNKWN | _ | _ | | _ |
| indication (e1000) | IPDM E/R | No indication | _ | UNKWN | UNKWN | - | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | | PKIC5708I |



LAN

Case 5
Check steering angle sensor circuit. Refer to <u>LAN-199</u>, "Steering Angle Sensor Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| OLLEGI GIGILIM | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELI-DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNIWN | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | - | NG | UNKWN | UNKWN | UNKWN | UNI WN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5709E |



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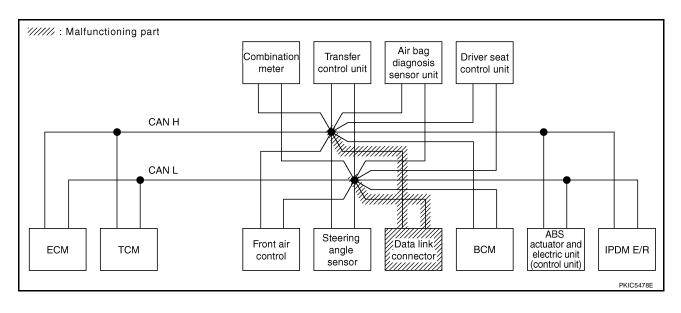
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Case 6
Check data link connector circuit. Refer to <u>LAN-199</u>, "<u>Data Link Connector Circuit Inspection</u>" .

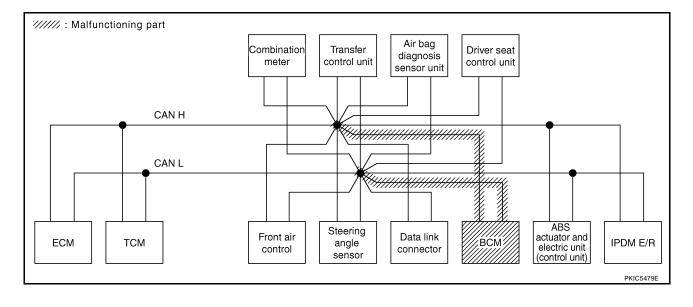
| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | l-state I | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 022201 01012. | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OZZI BINC | THEODERO |
| ENGINE | _ | _ | UNKWN | - | UNKWN | - | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | ı | ı | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | ı |
| BCM | No ind Nation | NG | UNKWN | UNKWN | ı | ı | ı | UNKWN | _ | 1 | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No ind ation | _ | UNKWN | UNKWN | UNKWN | 1 | UNKWN | 1 | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | 1 |
| ALL MODE AWD/4WD | No ind Nation | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | Ng ind ation | _ | _ | - | UNKWN | - | UNKWN | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | - |
| IPDM E/R | No ind Nation | _ | UNKWN | UNKWN | - | 1 | UNKWN | - | _ | _ | 1 | CAN COMM CIRCUIT (U1000) | 1 |
| | | | | | | | | | | | | | |



LAN

Case 7
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|-------|---------|----------------|---------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | ecroon | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| OLLEGI GIGILINI | 3010011 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | THEODEIG |
| ENGINE | _ | _ | UNKWN | - | UNKWN | - | ∩ NK WN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | _ | UNKWN | UNKWN | UNKWN | | CAN COMM CIRCUIT (U1000) | _ |
| всм | Ng ind ation | NG | UNKWN | UNKWN | ı | ı | ı | UNKWN | ı | ı | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNIWN | 1 | ı | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | 1 | ı | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | 1 | UNKWN | 1 | UNK WN | UNKWN | ı | _ | 1 | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | - | ı | UNKWN | - | ı | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNK WN | _ | _ | _ | _ | CAN COMM CIRCUIT (UN00) | _ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5711E |



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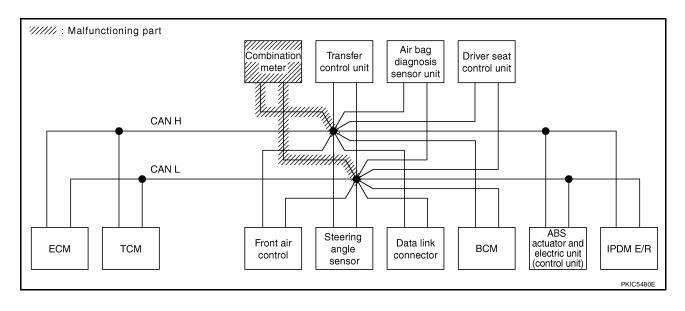
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Case 8
Check combination meter circuit. Refer to <u>LAN-200, "Combination Meter Circuit Inspection"</u>.

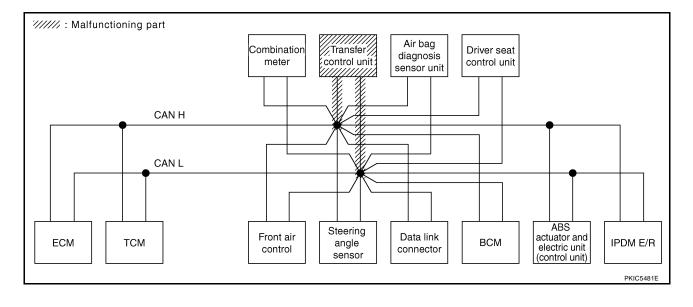
| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|-------|---------|-------------|----------------|---------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | screen | 1-11-1 | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| SEEE TO TO TELL | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | TILOULIU |
| ENGINE | - | _ | UNKWN | ı | UNKWN | _ | UNKWN | n nk wn | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | n nk wn | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U 100) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | - | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No ind ation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | - | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | - | UNKWN | _ | UNKWN | ∩ NK WN | _ | _ | - | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



LAN

Case 9
Check transfer control unit circuit. Refer to <u>LAN-201</u>, "<u>Transfer Control Unit Circuit Inspection</u>".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|-----------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|----------------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIN | 0010011 | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | GEE BING | THEODEIG |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | ı | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | _ | UNKWN | UNK WN | UNKWN | _ | CAN COMM CIRCUIT (U V 00) | <u>-</u> |
| ВСМ | No indication | NG | UNKWN | UNKWN | - | _ | - | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| ALL MODE AWD/4WD | Ng ind ation | _ | UNKWN | UNKWN | UNKWN | UNKWN | - | _ | _ | UNKWN | - | CAN COMM CIRCUIT (U 00) | - |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | UNK W N | _ | - | CAN COMM CIRCUIT (U 100) | - |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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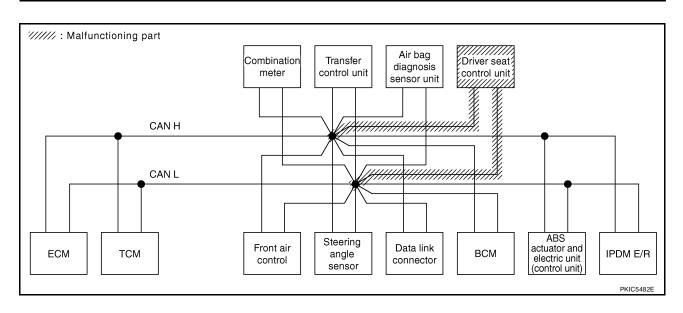
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Case 10

Check driver seat control unit circuit. Refer to LAN-202, "Driver Seat Control Unit Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | 1 22 1 | | | | | Receive | diagnosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIA | Sorcon | Initial diagnosis | Transmit diagnosis | | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | - | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | - | - | - | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | Ng ind ation | _ | _ | _ | UNKWN | - | UNKWN | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | - | _ | UNKWN | 1 | - | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

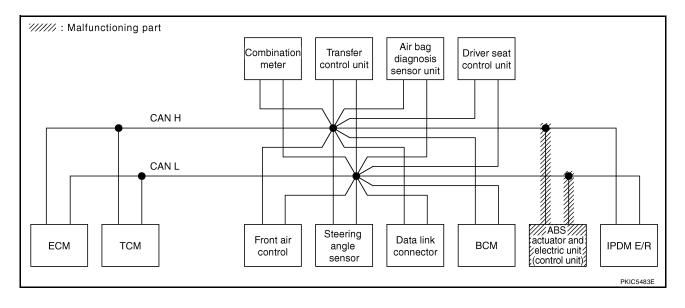


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Case 11

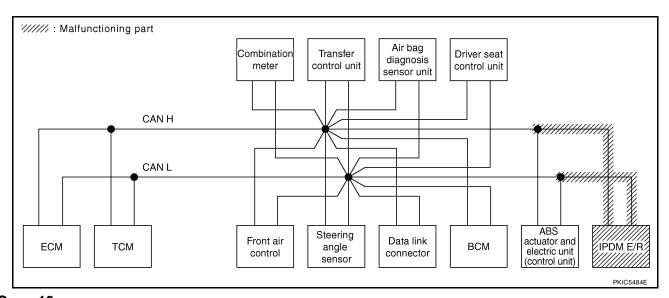
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

| SELECT SYSTEM | | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|--|------------------|---------------|-----------|----------------|----------------|----------------|----------------|---------|---------------|---------------|-----------------|-------------|-----------------------------|-----------|
| ENGINE | SELECT SYSTEM | screen | l-state I | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| AT | | | | | ECM | TCM | STRG | | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 0221 31/10 | |
| BCM | ENGINE | _ | _ | UNKWN | ı | UNKWN | ı | UNKWN | UNKWN | UNKWN | UNK WN | UNKWN | | |
| METER | A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | Ω NKW N | _ | | _ |
| METER | ВСМ | | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | _ | UNKWN | (U1000) | _ |
| ALTO DRIVE POS. No indication No UNKWN UNKWN UNKWN UNKWN UNKWN | METER | | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | _ | 1 | UNK WN | UNKWN | | _ |
| ABS - No UNIXWN UNIXWN UNIXWN - UNIXWN (U1000) | ALL MODE AWD/4WD | | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | - | UNK WN | 1 | | _ |
| ABS — N6 UNKWN UNKWN UNKWN — — UNKWN — — (UV00) — | AUTO DRIVE POS. | | _ | _ | 1 | UNKWN | - | UNKWN | UNKWN | 1 | | 1 | | ı |
| | ABS | _ | V | n uk wu | ∩ NK WN | n uk wu | n uk wu | _ | _ | UNI WN | - | - | | - |
| Indication (01000) | IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | - | UNKWN | _ | | _ | _ | CAN COMM CIRCUIT (U1000) | - |
| | | | | | | | | | | | | | | PKIC5715E |



Case 12
Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection".

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|------------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | l-state I | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 022201 01012 | 00.00 | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | 711200210 |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | _ | UNKWN | UNKWN | | 1 | CAN COMM CIRCUIT (U1000) | _ |
| всм | No indication | NG | UNKWN | UNKWN | ı | ı | - | UNKWN | _ | - | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | ı | | UNKWN | UNWN | CAN COMM CIRCUIT (U V 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | - | ı | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | - | UNKWN | _ | UNKWN | UNKWN | _ | - | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | - | UNKWN | - | | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indivation | _ | UNKWN | UNKWN | - | _ | UNKWN | 1 | _ | _ | - | CAN COMM CIRCUIT (U 100) | _ |
| | | | | | | | | | | | | | |



Case 13
Check CAN communication circuit. Refer to <u>LAN-203</u>, "CAN Communication Circuit Inspection" .

| | | | | | CAN | DIAG SU | PPORT M | INTR | | | | | |
|------------------|------------------|-----------|-----------------------|---------------|----------------|---------|-------------|----------------|----------------|-----------------|----------------|--------------------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| | | diagnosis | Transmit diagnosis | ECM | тсм | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | 322. 5 1/10 | |
| ENGINE | _ | _ | n uk wu | _ | n uk wu | - | UNK WN | n uk wu | UNKWN | ΠΝΚ ΜΝ | ∩ NK WN | CAN COMM CIRCUIT (U 00) | CAN COMM CIRCUIT (UN01) |
| A/T | ı | NG | UNKWN | ∩ N MN | _ | ı | ı | UNKWN | n uk wu | UNKWN | 1 | CAN COMM CIRCUIT (U X 00) | _ |
| всм | No indivation | NG | UNKWN | UNKWN | ı | I | ı | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | N ind ation | _ | UNKWN | UNKWN | UNKWN | ı | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | _ |
| ALL MODE AWD/4WD | Ng ind ation | _ | UNKWN | UNKWN | UNKWN | UNKWN | - | _ | _ | UNKWN | ı | CAN COMM CIRCUIT (U V 000) | _ |
| AUTO DRIVE POS. | Ng ind ation | - | ı | ı | UNKWN | ı | UNKWN | UNKWN | _ | _ | 1 | CAN COMM CIRCUIT (U 100) | _ |
| ABS | ı | ₩ | UNKVZ | UNKWN | UNK WN | | ı | 1 | UNK WN | _ | ı | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | Ng ind ation | _ | UNKWN | UNKWN | _ | ı | UNKWN | _ | _ | _ | ı | CAN COMM CIRCUIT (U 100) | _ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | PKIC5717E |

Revision: February 2007 LAN-175 2006 Pathfinder

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Case 14

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-204, "IPDM E/R Ignition Relay Circuit Inspection"</u>.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|----------------|---------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | coroon | | | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| OLLEGI GIGIENI | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNK W N | _ | UNKWN | UNKWN | UNKWN | n uk wu | UNKWN | CAN COMIN CIRCUIT (UN00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNI WN | _ | UNKWN | - | - | UNYWN | UNKWN | CAN COMM CIRCUIT (U 100) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNK WN | UNKWN | _ | l | ı | UNKWN | 1 | CAN COMM CIRCUIT (U V 00) | - |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNK WN | _ | UNKWN | UNKWN | 1 | 1 | ı | CAN COMM CIRCUIT (U X 00) | _ |
| ABS | - | NG | UNKWN | UNKWN | UNKWN | UNKWN | _ | ı | UNKWN | - | ı | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

Case 15

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to $\underline{\text{LAN-204}}$, "IPDM E/R Ignition Relay $\underline{\text{Circuit Inspection}}$.

| | | | | | CAN | DIAG SU | PPORT N | INTR | | | | | |
|------------------|---------------|----------------------|-----------------------|-------|-------|---------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | 1141-1 | T | | | | Receive | diagnosis | | | | SELE-DIAG | RESULTS |
| 022201 0101211 | | Initial diagnosis | Transmit diagnosis | ECM | TCM | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | TRESSERS |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | _ | _ | _ | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (U 100) | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | UNKWN | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | UNKWN | UNKWN | - | _ | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | _ | UNKWN | _ | _ | _ | _ | _ | - | CAN COMM CIRCUIT (U 100) | _ |
| PDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | - | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

CAN SYSTEM (TYPE 10)

| CAN SYSTEM (TYPE 10) | |
|--|-----------|
| | [CAN] |
| CAN SYSTEM (TYPE 10) | PFP:23710 |
| Component Parts and Harness Connector Location | UK\$00520 |
| Refer to LAN-25, "Component Parts and Harness Connector Location". | |
| Schematic | UKS00521 |
| Refer to LAN-26, "Schematic" . | |
| Wiring Diagram — CAN — | UKS00522 |
| Refer to LAN-27, "Wiring Diagram — CAN —". | |
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Check Sheet

NOTE:

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

| Check sheet tabl | е | | | | | | | | | | | _ | Г | |
|----------------------|---|---------------------------------|-----------------------|-------|---------------|---------|----------------------------|-------------|----------|---------|-------------------------------------|-------------|-----------------------------|---------------------------|
| | | | I | | C | AN DIAC | SUPPO | | | | | | | |
| | | Initial diagnosis | Transmit diagnosis | ECM | TCM Front air | | 1 | BCM /SEC | | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELF-DIAG RESULTS | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U1001) |
| VT | _ | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | - | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | _ | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| Symptoms : | | | | | | | | | | | | | | |
| Piceleo | | Attach copy of SELECT SYSTEM | | | | | | | SELEC | ch copy | ГЕМ | | | |
| | | | | | | | | | | | | | above check shee | |
| Confirmation/Adj | Check sheet table Display Initial diagnosis | | | | | _ | I CIRC | n/Adjus | sunent l | Jispiay | Check sheet table Display METER/M&A | | | |
| CAN CIRC 1 | | | Transmit diagnosis | | | | | + | CIRC | | | | - | |
| CAN CIRC 2 | BCM | | | | | + | CIRC | | | | IPDM E/R | | | |
| CAN CIRC 3 | ECM | | | | | + | I CIRC | | | | <u> </u> | | | |
| CAN CIRC 4 | Front air control | | | | | CAN | CIRC | 9 | | | - | _ | | |
| | | | | (| CAN DI | | Attack display PPORT | | unit | neck Sh | neet | | | |
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| Attach copy of | Attach copy of | Attach copy of | Attach copy of |
|-------------------|-------------------|-------------------|-------------------|
| ENGINE | A/T | BCM | METER |
| SELF-DIAG RESULTS | SELF-DIAG RESULTS | SELF-DIAG RESULTS | SELF-DIAG RESULTS |
| Attach copy of | Attach copy of | Attach copy of | Attach copy of |
| ALL MODE AWD/4WD | AUTO DRIVE POS. | ABS | IPDM E/R |
| SELF-DIAG RESULTS | SELF-DIAG RESULTS | SELF-DIAG RESULTS | SELF-DIAG RESULTS |
| Attach copy of | Attach copy of | Attach copy of | Attach copy of |
| ENGINE | A/T | BCM | METER |
| CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT |
| MNTR | MNTR | MNTR | MNTR |
| Attach copy of | Attach copy of | Attach copy of | Attach copy of |
| ALL MODE AWD/4WD | AUTO DRIVE POS. | ABS | IPDM E/R |
| CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT | CAN DIAG SUPPORT |
| MNTR | MNTR | MNTR | MNTR |

Revision: February 2007 LAN-179 2006 Pathfinder

CHECK SHEET RESULTS (EXAMPLE)

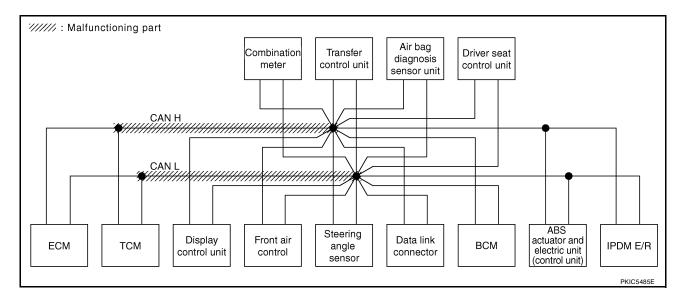
NOTE:

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

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-195, "Inspection Between TCM and Data Link Connector Circuit"</u>.

| | | | C | CAN DIAC | | | | | | | | | | |
|----------------------|---------------|----------------------|-----------------------|-------------------|----------------|-------------------|-------|-------------|-----------------|---------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM screen | | 1-20-1 | T | Receive diagnosis | | | | | | | | | SELF-DIAG RESULTS | |
| | | Initial diagnosis | Transmit diagnosis | ECM | тсм | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELI-BIAG NESSEIS | |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | _ | UNKWN | n иk ∕wи | UNKWN | UNK % N | UNK WN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | _ | _ | n uk wu | UNKWN | UNK NN | 1 | CAN COMM CIRCUIT (U 100) | _ |
| Display control unit | _ | NG | UNKWN | n uk wu | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ |
| BCM | No indication | NG | UNKWN | UNK WN | 1 | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNK WN | UNKWN | _ | UNKWN | _ | _ | _ | UNKWN | ı | CAN COMM CIRCUIT (U 100) | - |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | ı | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | n nk wn | n uk wu | _ | UNKWN | _ | _ | UNKWN | _ | - | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNK WN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U 100) | _ |



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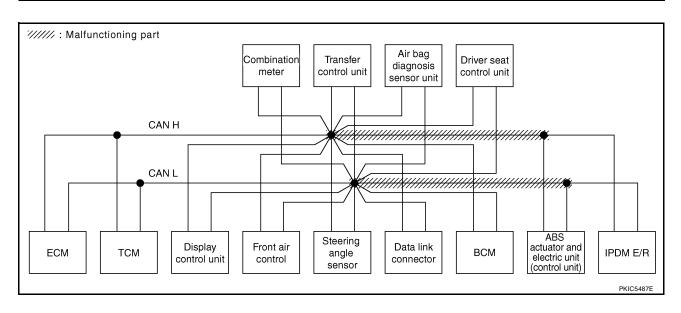
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Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-196</u>, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

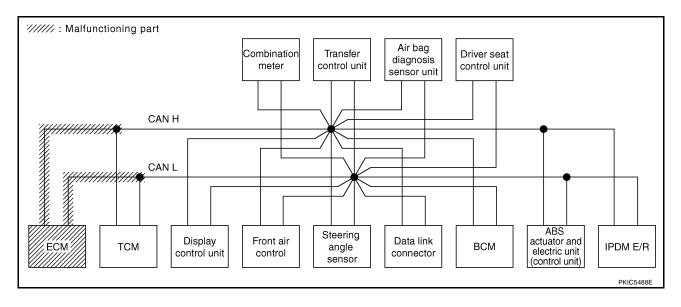
| | | | | | C | AN DIAG | SUPPO | RT MNT | R | | | | | |
|----------------------|-----------------|----------------------|-----------------------|----------------|----------------|-------------------|--------|-------------|---------------|---------|-----------------|----------------|-------------------------------------|----------------------------|
| SELECT SYSTEM: | screen | | - " | | | | Rec | eive diag | nosis | | | | SELE-DIAG | RESULTS |
| OLLEGI GIGILIMI | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | THEODEIO |
| ENGINE | _ | 1 | UNKWN | 1 | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | Ω ΝΚγ Ν | n uk wu | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | ı | NG | UNKWN | UNKWN | _ | - | _ | _ | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U V 00) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | n uk wu | _ | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | ∩ΝΚ₩ Ν | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | - | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | UNKWN | U NK WN | CAN COMM CIRCUIT (U V 00) | - |
| ALL MODE AWD/4WD | No indication | ı | UNKWN | UNKWN | UNKWN | - | UNKWN | _ | _ | _ | UNKWN | 1 | CAN COMM CIRCUIT (U N 00) | - |
| AUTO DRIVE POS. | No indication | - | _ | ı | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNK W N | UNK W N | _ | UNK WN | _ | _ | UNKWN | - | - | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | No ind ation | - | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U V 00) | _ |
| | | | | | | | | | | | | | | PKIC5723E |



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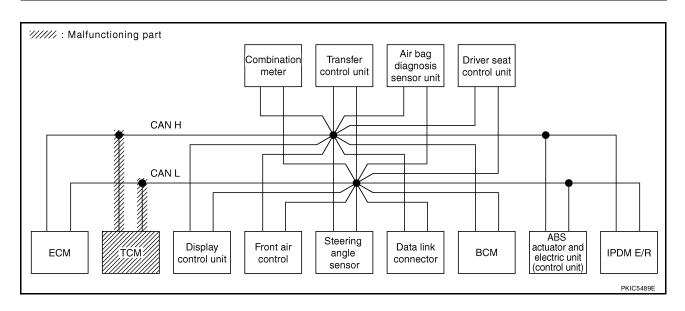
Case 3
Check ECM circuit. Refer to <u>LAN-197</u>, "ECM Circuit Inspection" .

| | | | | | C | CAN DIAG | SUPPO | RT MNT | R | | | | | |
|----------------------|---------------|---------|-----------------------|----------------|----------------|-------------------|-------|----------------|----------------|----------------|----------------|----------------|-------------------------------------|------------------------------------|
| SELECT SYSTEM | screen | Initial | T | | | | Rece | eive diagı | nosis | | | | SELF-DIAG | RESULTS |
| 022201 01012 | | | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | /SEC | /IVI&A | AWD/4WD | /ABS | IPDM E/R | | |
| ENGINE | _ | _ | UNKWN | ı | UNK A N | - | - | n uk wu | UNK W N | UN K ₩N | UNK W N | n uk wu | CAN COMM CIRCUIT (U V 00) | CAN COMM CIRCUI (U V 01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | 1 | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U V 00) | _ |
| Display control unit | - | NG | UNKWN | UNK WN | _ | UNKWN | _ | UNKWN | UNKWN | - | _ | UNKWN | _ | _ |
| BCM | No indication | NG | UNKWN | UNK WN | _ | _ | | _ | UNKWN | | ı | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNK WN | UNKWN | _ | 1 | UNKWN | _ | | UNKWN | UNKWN | CAN COMM CIRCUIT (U 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNK WN | UNKWN | - | UNKWN | 1 | - | _ | UNKWN | 1 | CAN COMM CIRCUIT (UN00) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | 1 | UNKWN | _ | 1 | UNKWN | UNKWN | | ı | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | n uk wu | UNKWN | _ | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | Ω ΝΚ ΜΝ | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |



Case 4
Check TCM circuit. Refer to <u>LAN-197</u>, "TCM Circuit Inspection" .

| | | | | | C | CAN DIAG | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|----------------|-------------------|-------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | | | | | | Rece | eive diag | nosis | | | | SELE-DIAG | RESULTS |
| SEEEOT STOTEM | | Initial diagnosis | Transmit diagnosis | ECM | тсм | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | TILOULIO |
| ENGINE | _ | - | UNKWN | ı | UNK V N | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNIV | _ | _ | - | 1 | UNK WN | UNKWN | Ω ΝΚ ΝΝ | 1 | CAN COMM CIRCUIT (U 100) | - |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | U NK ₩N | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 00) | _ |
| ALL MODE AWD/4WD | No indication | 1 | UNKWN | UNKWN | UNK WN | _ | UNKWN | _ | _ | _ | UNKWN | 1 | CAN COMM CIRCUIT (U N 00) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | ı | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | 1 | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | n uk wu | _ | UNKWN | _ | _ | UNKWN | _ | 1 | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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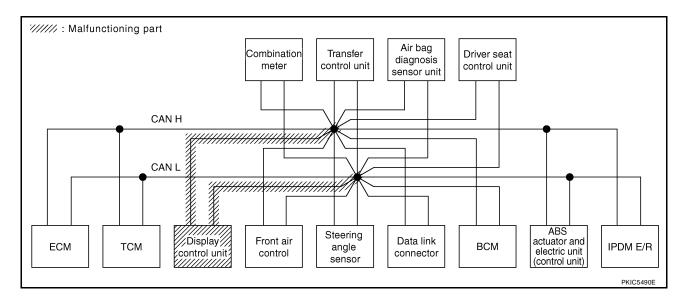
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Case 5
Check display control unit circuit. Refer to <u>LAN-198</u>, "<u>Display Control Unit Circuit Inspection</u>".

| | | | | | C | CAN DIAG | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|-----------------|-------|-------------------|-------|----------------|----------------|---------|-----------------|----------------|-----------------------------|-----------------------------|
| SELECT SYSTEM | screen | 1.00.1 | T | | | | Rec | eive diagı | nosis | | | | SELF-DIAG | RESULTS |
| OLLEGI GIGILIA | | Initial diagnosis | Transmit diagnosis | ECM | тсм | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI BINC | THEODEIG |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | - |
| Display control unit | _ | NG | n uk wu | n uk(wu | _ | n nk wn | _ | n uk wu | ∩ NR WN | _ | _ | n uk wu | _ | _ |
| BCM | No indication | NG | UNKWN | UNKWN | - | _ | _ | _ | UNKWN | - | ı | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | ı | UNKWN | UNKWN | UNKWN | 1 | _ | UNKWN | 1 | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | - |
| AUTO DRIVE POS. | No indication | _ | _ | - | UNKWN | _ | _ | UNKWN | UNKWN | _ | 1 | _ | CAN COMM CIRCUIT (U1000) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | 1 | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | | _ | _ | UNKWN | _ | _ | | _ | CAN COMM CIRCUIT (U1000) | _ |



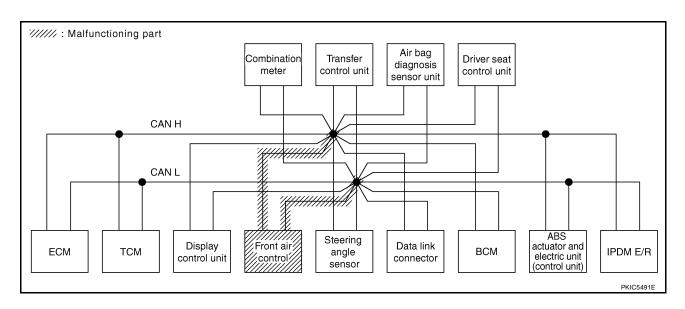
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Case 6
Check front air control circuit. Refer to <u>LAN-198</u>, "Front Air Control Circuit Inspection".

| | | | | | C | CAN DIAC | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|-------|-------------|---------------|---------|-----------------|-------------|-----------------------------|----------------------------|
| SELECT SYSTEM | eoroon | | | | | | Rec | eive diagı | nosis | | | | SELE-DIAG | RESULTS |
| GEEEOT GTGTEIW | | Initial diagnosis | Transmit diagnosis | ECM | тсм | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | 1 | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNK WN | _ | UNKWN | UNKWN | _ | | UNKWN | _ | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | - | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | _ | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | - | UNKWN | _ | _ | UNKWN | UNKWN | _ | | 1 | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | - | UNKWN | | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

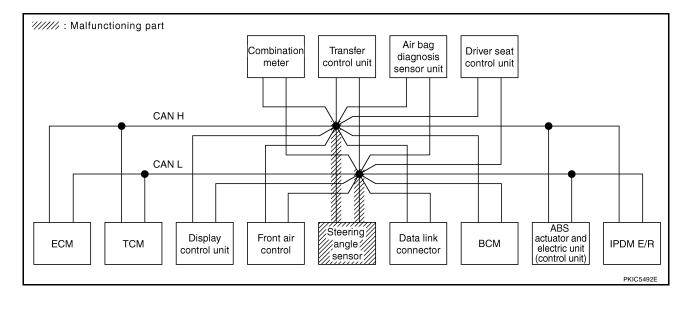


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Case 7
Check steering angle sensor circuit. Refer to <u>LAN-199</u>, "Steering Angle Sensor Circuit Inspection" .

| | | | | | | CAN DIAC | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|----------------|-------------|---------------|---------|-----------------|-------------|-----------------------------|-----------------------------|
| OF FOT OVOTEM | | | | | | | Rec | eive diagi | nosis | | | | CELE DIAC | RESULTS |
| SELECT SYSTEM | | Initial diagnosis | Transmit diagnosis | ECM | тсм | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELF-DIAG | RESULIS |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | UNKWN | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | - |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| ALL MODE AWD/4WD | No indication | - | UNKWN | UNKWN | UNKWN | _ | n ık ‰ν | _ | _ | - | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | 1 |
| AUTO DRIVE POS. | No indication | _ | _ | 1 | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | 1 | CAN COMM CIRCUIT (U1000) | |
| ABS | - | NG | UNKWN | UNKWN | UNKWN | _ | n uk wu | _ | _ | UNKWN | _ | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | - | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| | | • | • | • | | | | | | • | • | • | | PKIC5728E |



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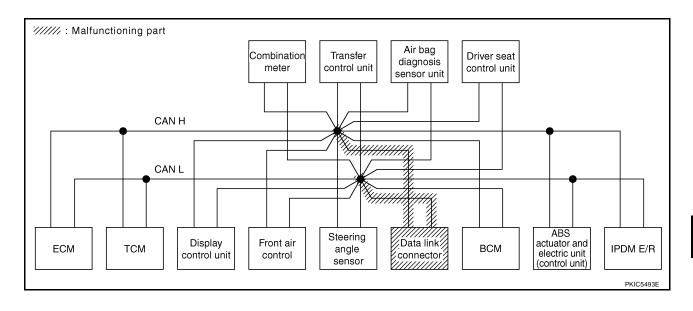
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Case 8
Check data link connector circuit. Refer to <u>LAN-199</u>, "<u>Data Link Connector Circuit Inspection</u>" .

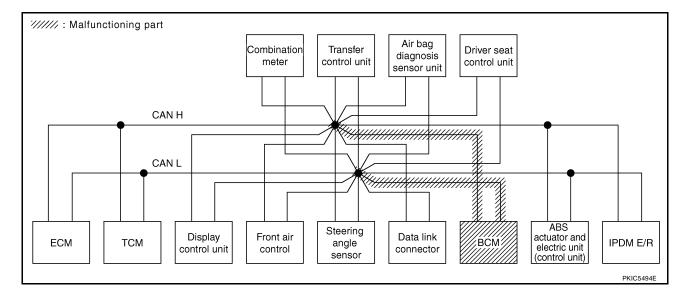
| | | | | | C | CAN DIAG | SUPPO | RT MNT | 7 | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|-------|-------------|---------------|---------|-----------------|-------------|-----------------------------|---------------------------|
| SELECT SYSTEM | ecroon | | | | | | Rec | eive diag | nosis | | | | SELE-DIAG | RESULTS |
| GEEEOT GTGTEIW | | Initial diagnosis | Transmit diagnosis | ECM | тсм | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | THEODEIO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U1001) |
| A/T | - | NG | UNKWN | UNKWN | _ | _ | - | _ | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | - | UNKWN | _ | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | Ng indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | Ng indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | - | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | - | UNKWN | _ | _ | UNKWN | UNKWN | _ | | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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Case 9
Check BCM circuit. Refer to <u>LAN-200, "BCM Circuit Inspection"</u>.

| | | | | | C | CAN DIAG | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|-------|----------------|---------------|---------|-----------------|-------------|-----------------------------|--------------------------|
| SELECT SYSTEM | screen | 1.202.1 | T | | | | Rece | eive diag | nosis | | | | SELF-DIAG | RESULTS |
| CLLCT CTCTLIN | | Initial diagnosis | Transmit diagnosis | ECM | тсм | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OEEI BING | TILOGLIO |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | 1 | n ik wi | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | 1 | _ | UNKWN | UNKWN | UNKWN | ı | CAN COMM CIRCUIT (U1000) | - |
| Display control unit | - | NG | UNKWN | UNKWN | _ | UNKWN | _ | n uk wu | UNKWN | - | _ | UNKWN | _ | _ |
| BCM | No indication | NG | UNKWN | UNKWN | - | 1 | | _ | UNKWN | | ı | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | | 1 | UNK WN | 1 | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (UV00) | - |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | 1 | - | _ | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | 1 |
| AUTO DRIVE POS. | No indication | _ | _ | 1 | UNKWN | 1 | 1 | n uk wu | UNKWN | | ı | 1 | CAN COMM CIRCUIT (U 100) | _ |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNI WN | _ | _ | _ | _ | CAN COMM CIRCUIT (UV00) | _ |



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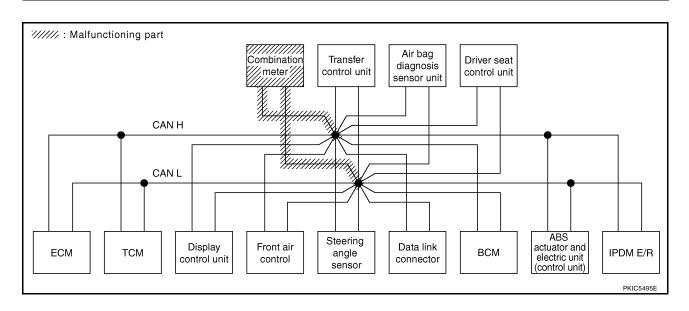
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Case 10

Check combination meter circuit. Refer to LAN-200, "Combination Meter Circuit Inspection" .

| | | | | | C | CAN DIAG | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|-------|-------------|----------------|---------|-----------------|-------------|-------------------------------------|---------------------------|
| SELECT SYSTEM: | ecroon | | | | | | Rece | eive diag | nosis | | | | SELE-DIAG | RESULTS |
| SELECT STSTEM | | Initial diagnosis | Transmit diagnosis | ECM | тсм | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELI-DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | - | UNKWN | U NK ₩N | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UN01) |
| A/T | 1 | NG | UNKWN | UNKWN | 1 | 1 | 1 | 1 | UNK W N | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U V 00) | 1 |
| Display control unit | _ | NG | UNKWN | UNKWN | - | UNKWN | - | UNKWN | UNKWN | _ | - | UNKWN | _ | - |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | n uk wu | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indivation | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | _ | UNKWN | _ | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | - | UNKWN | UNK W N | _ | _ | - | CAN COMM CIRCUIT (U 100) | - |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



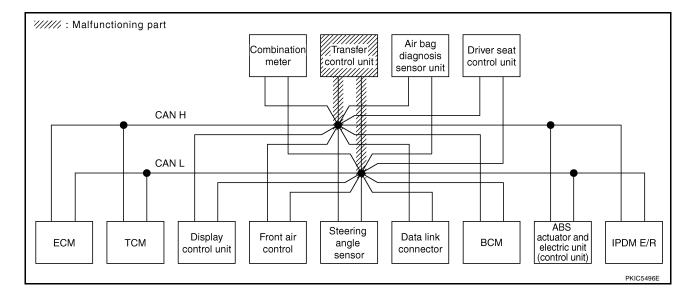
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Case 11
Check transfer control unit circuit. Refer to <u>LAN-201</u>, "<u>Transfer Control Unit Circuit Inspection</u>".

| | | | | | C | CAN DIAG | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|-------|-------------|---------------|----------------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | 1.00.1 | T | | | | Rec | eive diagr | nosis | | | | SELE-DIAG | RESULTS |
| CLLCT OTOTLIN | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI BINC | TILOULIU |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | - | _ | _ | _ | UNKWN | UNK WN | UNKWN | - | CAN COMM CIRCUIT (UV00) | 1 |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | - | _ | UNKWN | ı | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | ı |
| ALL MODE AWD/4WD | No indivation | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | 1 | _ | UNKWN | - | CAN COMM CIRCUIT (U X 00) | 1 |
| AUTO DRIVE POS. | No indication | _ | _ | - | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | _ | CAN COMM CIRCUIT (U1000) | I |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | n nk wn | _ | _ | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



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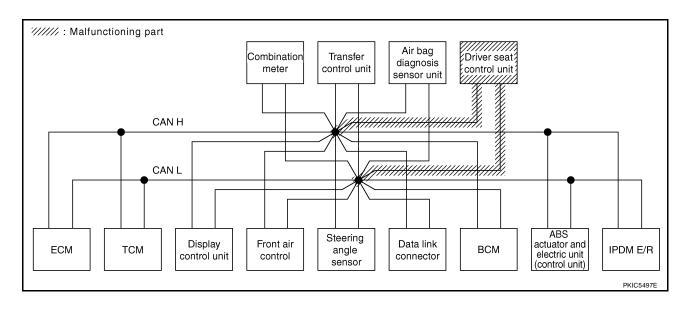
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Case 12
Check driver seat control unit circuit. Refer to <u>LAN-202</u>, "<u>Driver Seat Control Unit Circuit Inspection</u>".

| | | | | | C | CAN DIAG | SUPPO | RT MNT | ₹ | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------|-------|-------------------|-------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|---------------------------|
| SELECT SYSTEM: | screen | 1-00-1 | T | | | | Rece | eive diagı | nosis | | | | SELE-DIAG | RESULTS |
| OLLEGI GIGILIA | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DINC | · |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCU (U1001) |
| A/T | ı | NG | UNKWN | UNKWN | ı | _ | _ | _ | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ |
| BCM | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No indication | 1 | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | ı | _ | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | - | UNKWN | _ | _ | UNKWN | UNKWN | _ | | 1 | CAN COMM CIRCUIT (U N 00) | _ |
| ABS | - | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | ı | UNKWN | | 1 | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



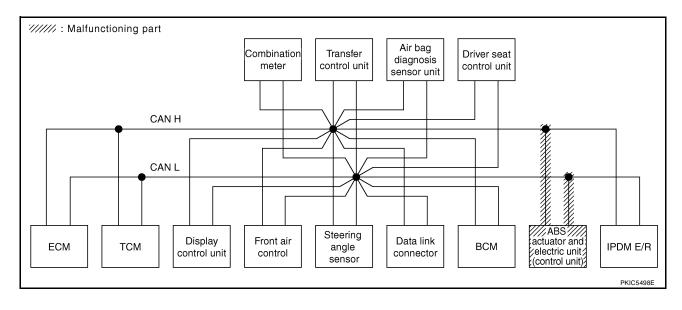
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Case 13

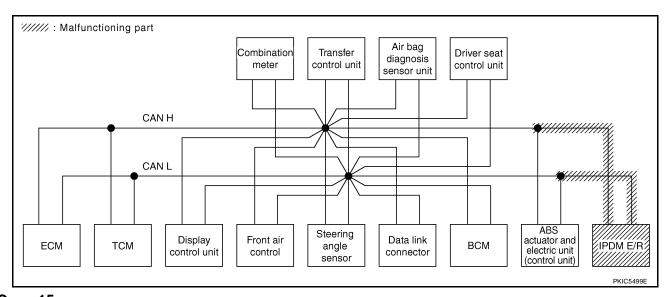
Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-202</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

| | | | | | C | CAN DIAG | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|----------------|----------------|-------------------|--------|-------------|---------------|----------------|-----------------|-------------|-------------------------------------|---------------------------|
| SELECT SYSTEM | screen | | | | | | Rec | eive diag | nosis | | | | SELE-DIAG | RESULTS |
| OLLEGI GIGILIM | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI DIAC | TILOULIU |
| ENGINE | _ | _ | UNKWN | _ | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNK N N | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | ı | _ | _ | ı | UNKWN | UNKWN | UNK W N | 1 | CAN COMM CIRCUIT (U V 00) | _ |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | - | UNK N N | UNKWN | CAN COMM CIRCUIT (U X 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | - | UNKWN | 1 | _ | 1 | UNK N N | 1 | CAN COMM CIRCUIT (U N 00) | - |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | _ | _ | ı | CAN COMM CIRCUIT (U1000) | _ |
| ABS | _ | V | n uk wu | n nk wn | n uk wu | _ | UNK VN | _ | _ | n nk wn | _ | 1 | CAN COMM CIRCUIT (U 100) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |



Case 14
Check IPDM E/R circuit. Refer to LAN-203, "IPDM E/R Circuit Inspection".

| | | | | | C | CAN DIAG | SUPPO | RT MNT | ₹ | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------------------|-------|-------------------|-------|-------------|---------------|-------------------|-----------------|----------------|-------------------------------------|---------------------------|
| SELECT SYSTEM | ecroon | | | Receive diagnosis | | | | | | SELF-DIAG RESULTS | | | | |
| GEEEOT GTGTEIW | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | OLLI -DIAC | TILOULIO |
| ENGINE | _ | _ | UNKWN | 1 | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | n uk wu | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUI (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | - | 1 | UNKWN | UNKWN | UNKWN | - | CAN COMM CIRCUIT (U1000) | I |
| Display control unit | _ | NG | UNKWN | UNKWN | - | UNKWN | _ | UNKWN | UNKWN | _ | _ | n ukw u | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | 1 | _ | _ | _ | UNKWN | _ | _ | n uk wu | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | _ | UNKWN | UNKWN | UNKWN | _ | - | UNKWN | ı | _ | UNKWN | UNK W N | CAN COMM CIRCUIT (U V 00) | ı |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | ı | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | ı |
| AUTO DRIVE POS. | No indication | _ | _ | 1 | UNKWN | _ | - | UNKWN | UNKWN | _ | _ | - | CAN COMM CIRCUIT (U1000) | 1 |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | ı | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | | _ | _ | UNKWN | | _ | _ | _ | CAN COMM CIRCUIT (U N 00) | _ |



Case 15
Check CAN communication circuit. Refer to <u>LAN-203, "CAN Communication Circuit Inspection"</u>.

| | | | | | C | CAN DIAC | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|--------|----------------|-------------------|----------------|----------------|----------------|----------------|-----------------|----------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | 1.00.1 | T | | | | Rece | eive diag | nosis | | | | SELE-DIAG | RESULTS |
| | | Initial diagnosis | Transmit diagnosis | ECM | тсм | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | | |
| ENGINE | _ | - | UNK W N | ı | n uk wu | _ | _ | UNK W N | UNK N N | n uk wu | UNK V N | n uk wu | (0,000) | CAN COMM CIRCUIT (UV01) |
| A/T | _ | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNK N N | UNK WN | UNK NN | _ | CAN COMM CIRCUIT (U 100) | _ |
| Display control unit | _ | NG | UNK WN | UNWN | _ | UNKWN | _ | UNKWN | UNK W N | _ | _ | UNK W N | _ | _ |
| всм | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | ı | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER | No indication | - | UNKWN | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U V 00) | _ |
| ALL MODE AWD/4WD | Ng indication | İ | UNKWN | UNKWN | UNKWN | 1 | UNKWN | _ | 1 | _ | UNKWN | - | CAN COMM CIRCUIT (U N 00) | 1 |
| AUTO DRIVE POS. | No indication | - | _ | ı | UNKWN | _ | _ | UNKWN | UNKWN | _ | 1 | _ | CAN COMM CIRCUIT (U N 00) | _ |
| ABS | _ | * | UNK WN | UNK WN | UNK V N | ı | UNK % N | _ | - | UNK WN | ı | _ | CAN COMM CIRCUIT (U V 00) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | - | _ | CAN COMM CIRCUIT (UN00) | _ |

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Case 16

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection" .

| | | | | CAN DIAG SUPPORT MNTR | | | | | | | | | | |
|----------------------|------------------|---------|-----------------------|-----------------------|-------------------|----------------------|-------|-------------|---------------|---------|-----------------|-------------|-------------------------------------|----------------------------|
| SELECT SYSTEM | screen | Initial | T | | Receive diagnosis | | | | | | SELE-DIAG | RESULTS | | |
| CLLCT CTCTLW | 0010011 | | Transmit diagnosis | | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | | |
| ENGINE | _ | _ | UNKWN | _ | Ω ΝΚW Ν | _ | _ | UNKWN | UNKWN | UNKWN | UNK V N | UNKWN | CAN COMM CIRCUIT (UV00) | CAN COMM CIRCUIT (UN01) |
| A/T | _ | NG | UNKWN | UNKWN | 1 | _ | _ | _ | UNKWN | UNKWN | UNKWN | 1 | CAN COMM CIRCUIT (U1000) | 1 |
| Display control unit | _ | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ |
| ВСМ | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | - |
| METER | No indication | _ | UNKWN | UNKWN | Ω ΝΚ ΜΝ | _ | _ | UNKWN | _ | _ | UNK NN | UNKWN | CAN COMM CIRCUIT (U 00) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | Ω ΝΚW Ν | _ | UNKWN | _ | ı | _ | UNK V N | - | CAN COMM CIRCUIT (U 100) | 1 |
| AUTO DRIVE POS. | No indication | _ | _ | _ | UNK W N | _ | _ | UNKWN | UNKWN | _ | - | - | CAN COMM CIRCUIT (U N 00) | ı |
| ABS | _ | NG | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | _ | UNKWN | _ | _ | CAN COMM CIRCUIT (U1000) | _ |
| IPDM E/R | No indication | _ | UNKWN | UNKWN | _ | _ | _ | UNKWN | _ | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

Case 17

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-204, "IPDM E/R Ignition Relay Circuit Inspection" .

| | | | | | C | CAN DIAG | SUPPO | RT MNT | R | | | | | |
|----------------------|------------------|----------------------|-----------------------|-------------------|-------|-------------------|-------|-------------|---------------|-----------|-----------------|-------------|-------------------------------------|-----------------------------|
| SELECT SYSTEM s | croon | | | Receive diagnosis | | | | | | SELE-DIAG | RESULTS | | | |
| OLLEGI GI GI EIVI SI | | Initial diagnosis | Transmit diagnosis | ECM | ТСМ | Front air control | STRG | BCM /SEC | METER /M&A | AWD/4WD | VDC/TCS /ABS | IPDM E/R | SELI-DIAG NESSEIS | |
| ENGINE | _ | _ | UNKWN | - | UNKWN | _ | _ | UNKWN | UNKWN | UNKWN | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | CAN COMM CIRCUIT (U1001) |
| VΤ | - | NG | UNKWN | 1 | 1 | 1 | _ | _ | 1 | _ | UNKWN | 1 | CAN COMM CIRCUIT (U V 00) | _ |
| Display control unit | - | NG | UNKWN | UNKWN | _ | UNKWN | _ | UNKWN | UNKWN | _ | _ | UNKWN | _ | _ |
| BCM i | No indication | NG | UNKWN | UNKWN | _ | _ | _ | _ | UNKWN | _ | _ | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| METER i | No indication | _ | UNKWN | UNKWN | UNKWN | 1 | _ | UNKWN | ı | _ | UNKWN | UNKWN | CAN COMM CIRCUIT (U1000) | _ |
| ALL MODE AWD/4WD | No indication | _ | UNKWN | UNKWN | UNKWN | _ | UNKWN | _ | 1 | _ | UNKWN | - | CAN COMM CIRCUIT (U1000) | _ |
| AUTO DRIVE POS. | No indication | _ | _ | 1 | UNKWN | 1 | _ | UNKWN | UNKWN | _ | - | - | CAN COMM CIRCUIT (U1000) | _ |
| ABS | - | NG | UNKWN | 1 | UNKWN | _ | _ | _ | - | _ | _ | - | CAN COMM CIRCUIT (U 100) | _ |
| PDM E/R | No indication | _ | UNKWN | UNKWN | - | _ | _ | UNKWN | 1 | _ | _ | _ | CAN COMM CIRCUIT (U1000) | _ |

TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

TROUBLE DIAGNOSIS FOR SYSTEM

PFP:00000

Inspection Between TCM and Data Link Connector Circuit

UKS0051B

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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 F14
- Harness connector E5
- Harness connector E152
- Harness connector M31

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 F14.
- Check continuity between A/T assembly harness connector and harness connector.

| A/T assemb | ly connector | Harness | Harness connector | | | | |
|------------|--------------|-----------|-------------------|------------|--|--|--|
| Connector | Terminal | Connector | Terminal | Continuity | | | |
| F9 | 3 | F14 | 2 | Yes | | | |
| 19 | 8 | 1 14 | 3 | Yes | | | |

A/T assembly connector Harness connector

OK or NG

OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect harness connector E152.
- Check continuity between harness connector and SMJ harness connector.

| | | | | 1 |
|-----------|-----------|------------|------------|------------|
| Harness | connector | SMJ harnes | Continuity | |
| Connector | Terminal | Connector | Terminal | Continuity |
| E5 | 2 | E152 | 52G | Yes |
| LJ | 3 | L 132 | 51G | Yes |

SMJ harness connector Harness connector SMJ © CONNECTOR 52G, 51G

OK or NG

OK >> GO TO 4.

NG >> Repair harness.

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Check continuity between SMJ harness connector and data link connector.

| SMJ harnes | ss connector | Data link | Continuity | |
|------------|--------------|-----------|------------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| M31 | 52G | M22 | 6 | Yes |
| I CIVI | 51G | IVIZZ | 14 | Yes |

SMJ harness connector SMJ OCONNECTOR 52G, 51G SKIB2834E

OK or NG

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

NG >> Repair harness.

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

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (connector side and harness side).
- Harness connector M91
- Harness connector E26

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect harness connector M91.
- 2. Check continuity between data link connector and harness connector.

| Data link | connector | Harness | Continuity | |
|-----------|-----------|-----------|------------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| M22 | 6 | M91 | 11 | Yes |
| IVIZZ | 14 | IVIST | 10 | Yes |

Data link connector Harness connector 14 1011 SKIB2812E

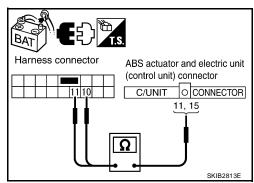
OK or NG

OK >> GO TO 3.

NG >> Repair harness.

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

| Harness | Harness connector | | ABS actuator and electric unit (control unit) connector | | | | |
|-----------|-------------------|-----------|---|-----|--|--|--|
| Connector | Terminal | Connector | Terminal | | | | |
| E26 | 11 | E125 | 11 | Yes | | | |
| L20 | 10 | L 125 | 15 | Yes | | | |



OK or NG

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

NG >> Repair harness.

ECM Circuit Inspection

1. CHECK CONNECTOR

Turn ignition switch OFF. 1.

- 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 E2
- Harness connector F32

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

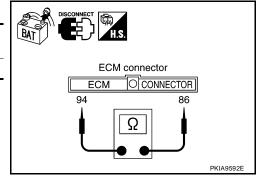
- Disconnect ECM connector.
- Check resistance between ECM harness connector terminals.

| ECM connector | Terr | Terminal | | | |
|---------------|------|----------|-------------|--|--|
| E16 | 94 | 86 | 108 – 132 Ω | | |

OK or NG

OK >> Replace ECM.

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



TCM Circuit Inspection

1. CHECK CONNECTOR

- Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 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.

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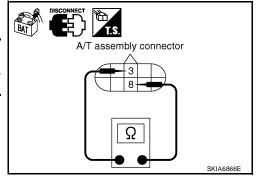
- 1. Disconnect A/T assembly connector.
- Check resistance between A/T assembly harness connector terminals.

| A/T assembly connector | Terr | Resistance (Approx.) | |
|------------------------|------|-------------------------|-----------|
| F9 | 3 | 8 | 54 – 66 Ω |

OK or NG

OK >> Replace control valve with TCM.

NG >> Repair harness between A/T assembly and harness connector F14.



UKS0051H

Display Control Unit Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. check harness for open circuit

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

| Display control unit connector | Terr | Resistance (Approx.) | |
|--------------------------------|------|-------------------------|-----------|
| M95 | 25 | 26 | 54 – 66 Ω |

OK or NG

OK >> Replace display control unit.

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

Display control unit connector Ω SKIA6884E

UKS00511

Front Air Control Circuit Inspection

1. CHECK CONNECTOR

- 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.

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

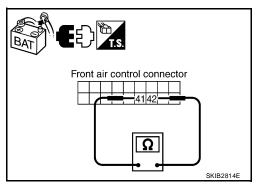
| Front air control connector | Terminal | | Resistance (Approx.) |
|-----------------------------|----------|----|-------------------------|
| M50 | 41 | 42 | 54 – 66 Ω |

OK or NG

OK >> Replace front air control.

NG

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



UKS0051J

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Steering Angle Sensor Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

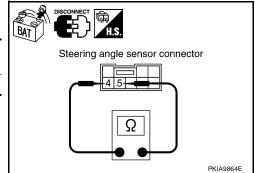
- 1. Disconnect steering angle sensor connector.
- 2. Check resistance between steering angle sensor harness connector terminals.

| Steering angle sensor connector | Terminal | | Resistance (Approx.) |
|---------------------------------|----------|---|----------------------|
| M47 | 4 | 5 | 54 – 66 Ω |

OK or NG

OK >> Replace steering angle sensor.

NG >> Repair harness between steering angle sensor and data link connector.



Data Link Connector Circuit Inspection

1. CHECK CONNECTOR

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

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector. UKS0051K

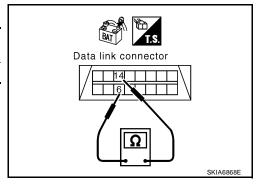
Check resistance between data link connector terminals.

| Data link connector | Terminal | | Resistance (Approx.) |
|---------------------|----------|----|-------------------------|
| M22 | 6 | 14 | 54 – 66 Ω |

OK or NG

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

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



UKS0051L

BCM Circuit Inspection

1. CHECK CONNECTOR

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

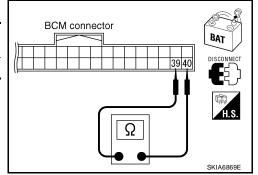
- Disconnect BCM connector.
- 2. Check resistance between BCM harness connector terminals.

| BCM connector | Terminal | | Resistance (Approx.) |
|---------------|----------|----|----------------------|
| M18 | 39 | 40 | 54 – 66 Ω |

OK or NG

OK >> Replace BCM. Refer to BCS-27, "Removal and Installation".

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



UKS0051M

Combination Meter Circuit Inspection

1. CHECK CONNECTOR

- Turn ignition switch OFF.
- 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.

$\overline{2}$. Check harness for open circuit

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

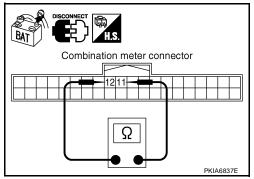
| Combination meter connector | Terminal | | Resistance (Approx.) |
|-----------------------------|----------|----|-------------------------|
| M24 | 12 | 11 | 54 – 66 Ω |

OK or NG

OK >> Replace combination meter.

NG >> Repair harness between combination meter and data

link connector.



UKS0051N

Transfer Control Unit Circuit Inspection

1. CHECK CONNECTOR

- 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.

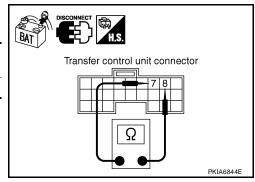
NG >> Repair terminal or connector.

2. check harness for open circuit

All-mode 4WD system

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

| Transfer control unit connector | Terminal | | Resistance (Approx.) |
|---------------------------------|----------|---|-------------------------|
| M152 | 7 | 8 | 54 – 66 Ω |



Part time 4WD system

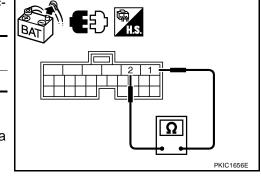
- 1. Disconnect transfer control unit connector.
- 2. Check resistance between transfer control unit harness connector terminals.

| Transfer control unit connector | Terminal | | Resistance (Approx.) |
|---------------------------------|----------|---|-------------------------|
| M152 | 1 | 2 | 54 – 66 Ω |

OK or NG

OK >> Replace transfer control unit.

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



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UKS00510

Driver Seat Control Unit Circuit Inspection

1. CHECK CONNECTOR

- Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- Check following terminals and connectors for damage, bend and loose connection (control unit side and harness side).
- Driver seat control unit connector
- Harness connector P1
- Harness connector B37
- Harness connector B69
- Harness connector M40

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

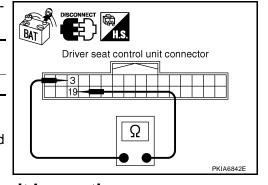
- 1. Disconnect driver seat control unit connector.
- Check resistance between driver seat control unit harness connector terminals.

| Transfer control unit connector | Terminal | | Resistance (Approx.) |
|---------------------------------|----------|----|-------------------------|
| P2 | 3 | 19 | 54 – 66 Ω |

OK or NG

OK >> Replace driver seat control unit.

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



ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

UKS0051P

CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 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

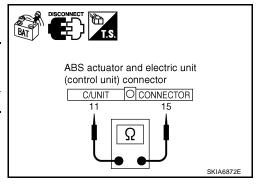
- 1. Disconnect ABS actuator and electric unit (control unit) connector.
- Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

| ABS actuator and electric unit (control unit) connector | Terminal | | Resistance (Approx.) |
|---|----------|----|-------------------------|
| E125 | 11 | 15 | 54 – 66 Ω |

OK or NG

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

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



TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

UKS0051Q

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IPDM E/R Circuit Inspection

1. CHECK CONNECTOR

1. Turn ignition switch OFF.

- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of 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

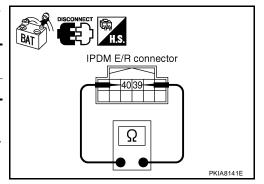
- 1. Disconnect IPDM E/R connector.
- Check resistance between IPDM E/R harness connector terminals.

| IPDM E/R connector | Terminal | | Resistance (Approx.) |
|--------------------|----------|----|-------------------------|
| E122 | 39 | 40 | 108 – 132 Ω |

OK or NG

OK >> Replace IPDM E/R.

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



UKS0051R

CAN Communication Circuit Inspection

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 terminals.

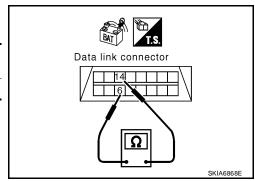
| Data link connector | Terminal | | Continuity |
|---------------------|----------|----|------------|
| M22 | 6 | 14 | No |

OK or NG

OK >> GO TO 3.

NG >> ● Repair harness.

 Replace harness if shielded lines are used for the harness.



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3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.

| Data link connector | Terminal | Ground | Continuity |
|---------------------|----------|--------|------------|
| M22 | 6 | | No |
| | 14 | | No |

Data link connector Ω PKIA9872E

OK or NG

OK >> GO TO 4.

NG >> ● Repair harness.

 Replace harness if shielded lines are used for the harness.

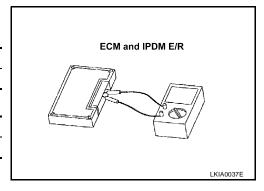
4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

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

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

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.
- Connect all connectors, and then make sure that the symptom is reproduced.

Check results

Reproduced>>GO TO 6.

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

6. UNIT REPRODUCIBILITY INSPECTION

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

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

NOTE:

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

Inspection results

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

IPDM E/R Ignition Relay Circuit Inspection

UKS0051S

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

TROUBLE DIAGNOSIS FOR SYSTEM

[CAN]

IPDM E/R power supply circuit. Refer to <u>PG-31</u>, "IPDM E/R Power/Ground Circuit Inspection".

Ignition power supply circuit. Refer to <u>PG-14, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"</u>.

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