

## 13. Diagnostic Procedure with Diagnostic Trouble Code (DTC)

### A: DTC U0073 CONTROL MODULE COMMUNICATION BUS OFF

Detected when CAN line abnormality is detected.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

### B: DTC U0100 LOST COMMUNICATION WITH ECM/PCM “A”

Detected when CAN data from the engine control module (ECM) does not arrive.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

### C: DTC U0101 LOST COMMUNICATION WITH TCM

Detected when CAN data from TCM does not arrive.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

### D: DTC U0122 LOST COMMUNICATION WITH VEHICLE DYNAMICS CONTROL MODULE

Detected when CAN data from VDC does not arrive.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

### E: DTC U0131 LOST COMMUNICATION WITH POWER STEERING CONTROL MODULE

Detected when CAN data is not received from electric power steering CM.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

### F: DTC U0140 LOST COMMUNICATION WITH BODY CONTROL MODULE

Detected when CAN data is not received from body integrated unit.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

### G: DTC U0151 LOST COMMUNICATION WITH RESTRAINTS CONTROL MODULE

Detected when CAN data is not received from airbag CM.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

### H: DTC U0164 LOST COMMUNICATION WITH HVAC CONTROL MODULE

Detected when CAN data is not received from A/C CM.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

### I: DTC U0327 SOFTWARE INCOMPATIBILITY WITH VEHICLE SECURITY CONTROL MODULE

Detected when CAN data is not received from keyless access CM.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

## Diagnostic Procedure with Diagnostic Trouble Code (DTC)

### INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)

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#### **J: DTC U1201 CAN-HS COUNTER ABNORMAL**

Detected when CAN data is abnormal.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

#### **K: DTC U1235 LOST COMMUNICATION WITH EyeSight**

Detected when CAN data from the stereo camera does not arrive.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

#### **L: DTC U1433 INVALID DATA RECEIVED FROM EyeSight**

Detected when the microcomputer of the stereo camera froze.

NOTE:

Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

## M: DTC U1650 INVALID DATA RECEIVED FROM METER (UART)

### DTC DETECTING CONDITION:

There is an abnormality in UART data from combination meter.

### TROUBLE SYMPTOM:

LCD is not displayed.

Step	Check	Yes	No
1 <b>CHECK LAN SYSTEM.</b> Read the DTC of the body integrated unit and the LAN system using the Subaru Select Monitor. <Ref. to LAN(diag)-38, OPERATION, Read Diagnostic Trouble Code (DTC).> <Ref. to BC(diag)-9, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is DTC displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2 <b>CHECK CONNECTOR.</b> 1) Disconnect the MFD connector and meter connector. 2) Connect the disconnected connectors. 3) Read the DTC of the MFD using the Subaru Select Monitor.	Is DTC U1650 a current malfunction?	Go to step 3.	There was poor contact of connector.
3 <b>CHECK COMBINATION METER.</b> 1) Replace the combination meter. <Ref. to IDI-18, Combination Meter.> 2) Read the DTC of the MFD using the Subaru Select Monitor.	Is DTC U1650 a current malfunction?	Replace the MFD. <Ref. to IDI-25, Multi-function Display (MFD).>	There was something wrong with the meter.

# Diagnostic Procedure with Diagnostic Trouble Code (DTC)

## INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)

### N: DTC U1651 LOST COMMUNICATION WITH METER (UART)

#### DTC DETECTING CONDITION:

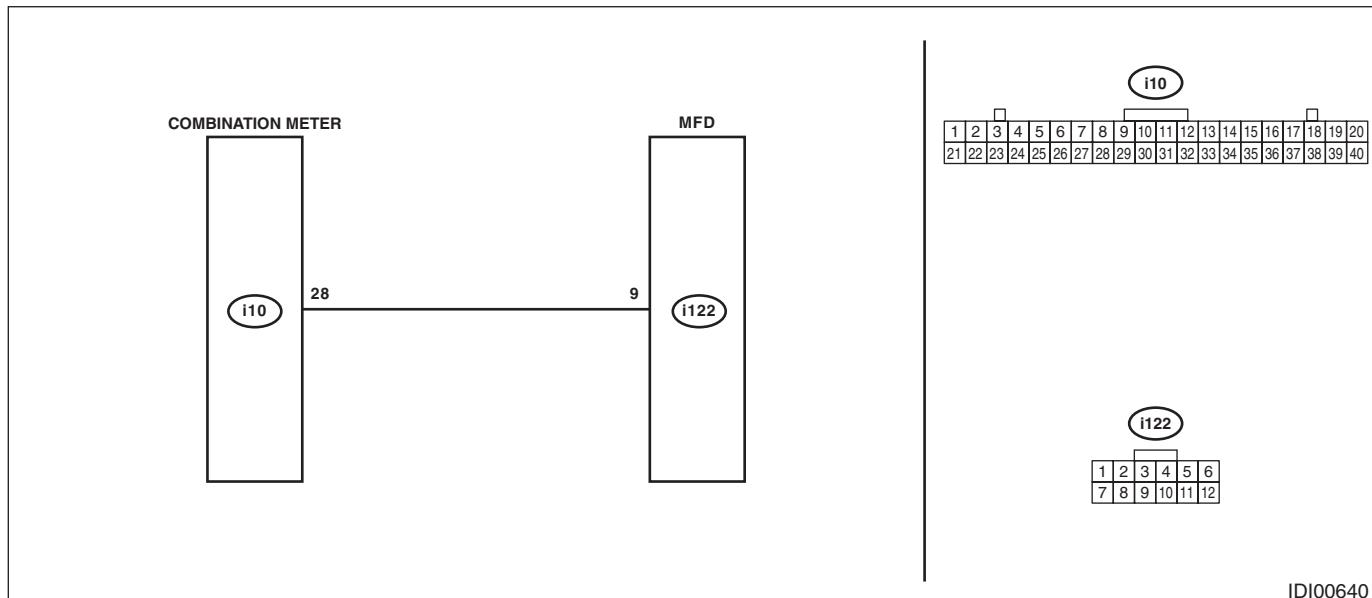
UART data from combination meter is not received.

#### TROUBLE SYMPTOM:

LCD is not displayed.

#### WIRING DIAGRAM:

Multi-function display (MFD) system <Ref. to WI-288, WIRING DIAGRAM, Multi-function Display (MFD) System.>



Step	Check	Yes	No
1 <b>CHECK LAN SYSTEM.</b> Read the DTC of the LAN system using the Subaru Select Monitor. <Ref. to LAN(diag)-38, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is DTC displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2 <b>CHECK CONNECTOR.</b> 1) Disconnect the MFD connector and meter connector. 2) Connect the disconnected connectors. 3) Read the DTC of the MFD using the Subaru Select Monitor.	Is DTC U1651 a current malfunction?	Go to step 3.	There was poor contact of connector.
3 <b>CHECK HARNESS.</b> 1) Disconnect the MFD connector and meter connector. 2) Using the tester, measure the resistance between terminals. <i>Connector &amp; terminal (i10) No. 28 — (i122) No. 9:</i>	Is the resistance 10 Ω or less?	Go to step 4.	Repair the open circuit of harness or replace harness.
4 <b>CHECK HARNESS.</b> Using the tester, measure the resistance between terminals. <i>Connector &amp; terminal (i122) No. 9 — Chassis ground:</i>	Is the resistance 10 Ω or less?	Repair the short circuit of harness or replace harness.	Go to step 5.
5 <b>CHECK COMBINATION METER.</b> 1) Replace the combination meter. <Ref. to IDI-18, Combination Meter.> 2) Read the DTC of the MFD using the Subaru Select Monitor.	Is DTC U1651 a current malfunction?	Go to step 6.	There was something wrong with the meter.

# Diagnostic Procedure with Diagnostic Trouble Code (DTC)

## INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)

Step	Check	Yes	No
<b>6</b> <b>CHECK COMBINATION METER.</b> 1) Replace the current combination meter with the original combination meter. 2) Replace the MFD. <Ref. to IDI-25, Multi-function Display (MFD).> 3) Read the DTC of the MFD using the Subaru Select Monitor.	Is DTC U1651 a current malfunction?	Replace the meter. <Ref. to IDI-18, Combination Meter.>	There was an abnormality in MFD.

# Diagnostic Procedure with Diagnostic Trouble Code (DTC)

## INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)

### O: DTC B2220 BREAK THE WIRE OF IGN

#### DTC DETECTING CONDITION:

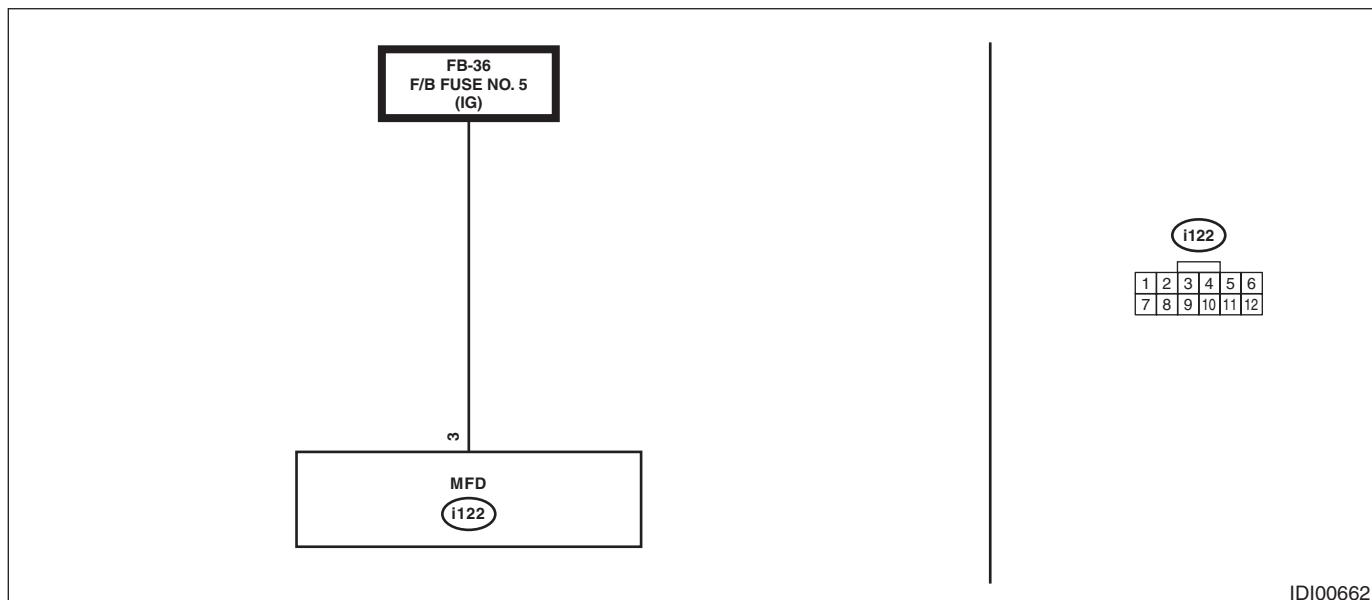
There was voltage malfunction caused by poor contact of IGN power supply circuits.

#### TROUBLE SYMPTOM:

Airbag indicator does not illuminate.

#### WIRING DIAGRAM:

Multi-function display (MFD) system <Ref. to WI-288, WIRING DIAGRAM, Multi-function Display (MFD) System.>



Step	Check	Yes	No
1 <b>CHECK DTC.</b> Read the DTC of the MFD using the Subaru Select Monitor.	Is DTC B2220 a current malfunction?	Go to step 2.	Go to step 5.
2 <b>CHECK DTC.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the MFD connector and reconnect it. 3) Turn the ignition switch to ON. 4) Read the DTC relating the MFD using the Subaru Select Monitor.	Is DTC B2220 a current malfunction?	Go to step 3.	Go to step 5.
3 <b>CHECK FUSE.</b> 1) Turn the ignition switch to OFF. 2) Check the fuse.	Is the fuse OK?	Go to step 4.	Replace the defective fuse.
4 <b>CHECK HARNESS.</b> 1) Disconnect the MFD connector. 2) Turn the ignition switch to ON. 3) Using the tester, measure the voltage between terminals. <i>Connector &amp; terminal (i122) No. 3 (+) — Chassis ground (-):</i>	Is the voltage 8.5 — 16.5 V?	Replace the MFD. <Ref. to IDI-25, Multi-function Display (MFD).>	Repair the harness between MFD and fuse.
5 <b>CHECK CONNECTOR.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the MFD connector.	Is there poor contact of connector?	Repair or replace the poor contact of connector.	A temporary change of voltage occurred.

## P: DTC B2222 SYSTEM MICROCOMPUTER FAIL

### DTC DETECTING CONDITION:

When the microcomputer froze.

### TROUBLE SYMPTOM:

MFD does not operate.

#### NOTE:

Reset the MFD. If it does not return to the normal operation, replace the MFD. <Ref. to IDI-25, Multi-function Display (MFD).>

## Q: DTC B2223 GERDA FAIL

### DTC DETECTING CONDITION:

When the system microcomputer can not send/receive the data with the image microcomputer normally.

### TROUBLE SYMPTOM:

There is no display on the TFT. Operation is normal.

#### NOTE:

Replace the MFD. <Ref. to IDI-25, Multi-function Display (MFD).>

# Diagnostic Procedure with Diagnostic Trouble Code (DTC)

## INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)

### R: DTC B1500 FUEL SENDER OPEN/SHORT-CIRCUIT DETECTION

#### DTC DETECTING CONDITION:

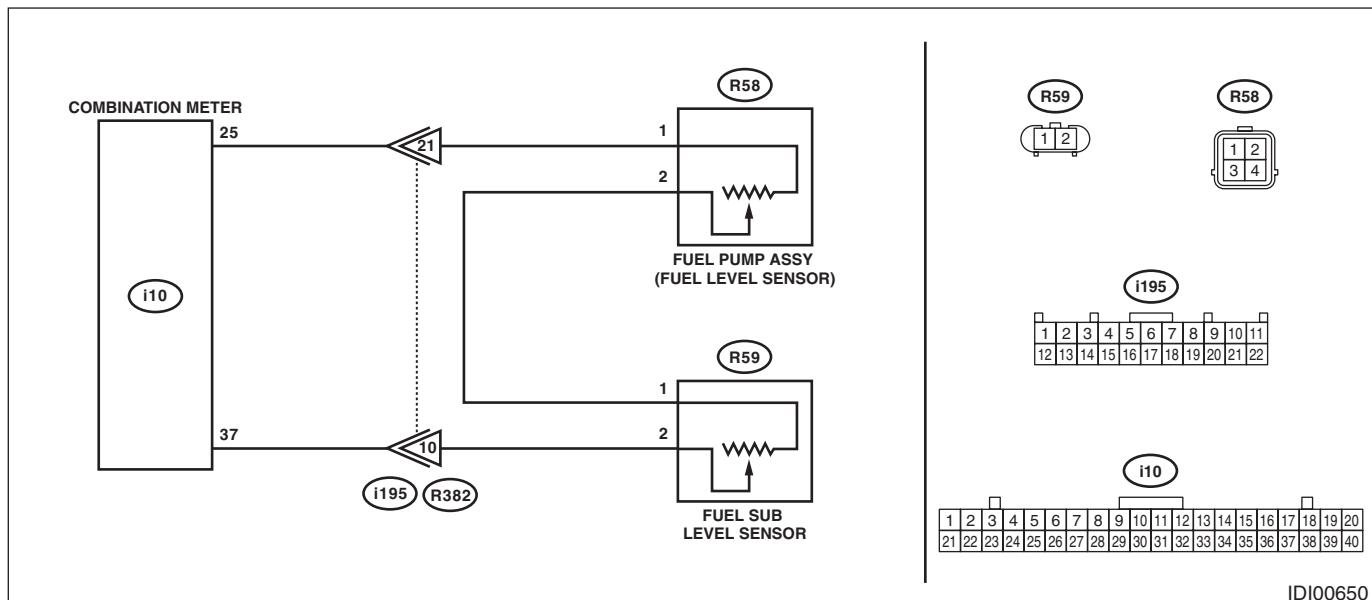
The fuel gauge circuit is open or shorted.

#### TROUBLE SYMPTOM:

- Defective fuel gauge.
- Fuel level warning light blinks.

#### WIRING DIAGRAM:

Fuel gauge system <Ref. to WI-252, WIRING DIAGRAM, Fuel Gauge System.>



Step	Check	Yes	No
1 <b>CHECK DTC.</b> Read the DTC of the meter using the Subaru Select Monitor.	Is DTC B1500 a current malfunction?	Go to step 2.	Go to step 7.
2 <b>CHECK COMBINATION METER.</b> 1) Check the operation of combination meter using Subaru Select Monitor. 2) From the {System Operation Check Mode}, select the «Fuel Meter Operation» and «Remaining fuel warning».	Is the operation of combination meter OK?	Go to step 3.	Replace the combination meter. <Ref. to IDI-18, Combination Meter.>
3 <b>CHECK HARNESS.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the meter connector and the fuel sub level sensor connector and the fuel level sensor connector. 3) Using the tester, measure the resistance between terminals. <i>Connector &amp; terminal</i> (i10) No. 25 — (R58) No. 1: (i10) No. 37 — (R59) No. 2:	Is the resistance 10 Ω or less?	Go to step 4.	Repair the open circuit of harness or replace harness.
4 <b>CHECK HARNESS.</b> Using the tester, measure the resistance between terminals. <i>Connector &amp; terminal</i> (i10) No. 25 — Chassis ground: (i10) No. 37 — Chassis ground:	Is the resistance 10 Ω or less?	Repair the short circuit of harness or replace harness.	Go to step 5.
5 <b>CHECK FUEL SUB LEVEL SENSOR.</b> Check the fuel sub level sensor as a single part. <Ref. to FU(H4DO)-145, INSPECTION, Fuel Sub Level Sensor.>	Is the sensor normal?	Go to step 6.	Replace the sensor.

# Diagnostic Procedure with Diagnostic Trouble Code (DTC)

## INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)

Step	Check	Yes	No
<b>6 CHECK FUEL LEVEL SENSOR.</b> Check the fuel level sensor as a single part. <Ref. to FU(H4DO)-138, INSPECTION, Fuel Level Sensor.>	Is the sensor normal?	Go to step 7.	Replace the sensor.
<b>7 CHECK CONNECTOR.</b> 1) Turn the ignition switch to OFF. 2) Disconnect connectors.	Is there poor contact of connector?	Repair or replace the poor contact of connector.	A temporary change of voltage occurred.
<b>8 CHECK CURRENT DATA.</b> Using the Subaru Select Monitor, display the «Fuel sensing value» from {Current Data Display & Save}.	Does the data display 10—570 Ω?	System is normal.	Replace the combination meter. <Ref. to IDI-18, Combination Meter.>

# Diagnostic Procedure with Diagnostic Trouble Code (DTC)

## INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)

### S: DTC B1501 POWER SUPPLY SYSTEM ERROR DETECTION

#### DTC DETECTING CONDITION:

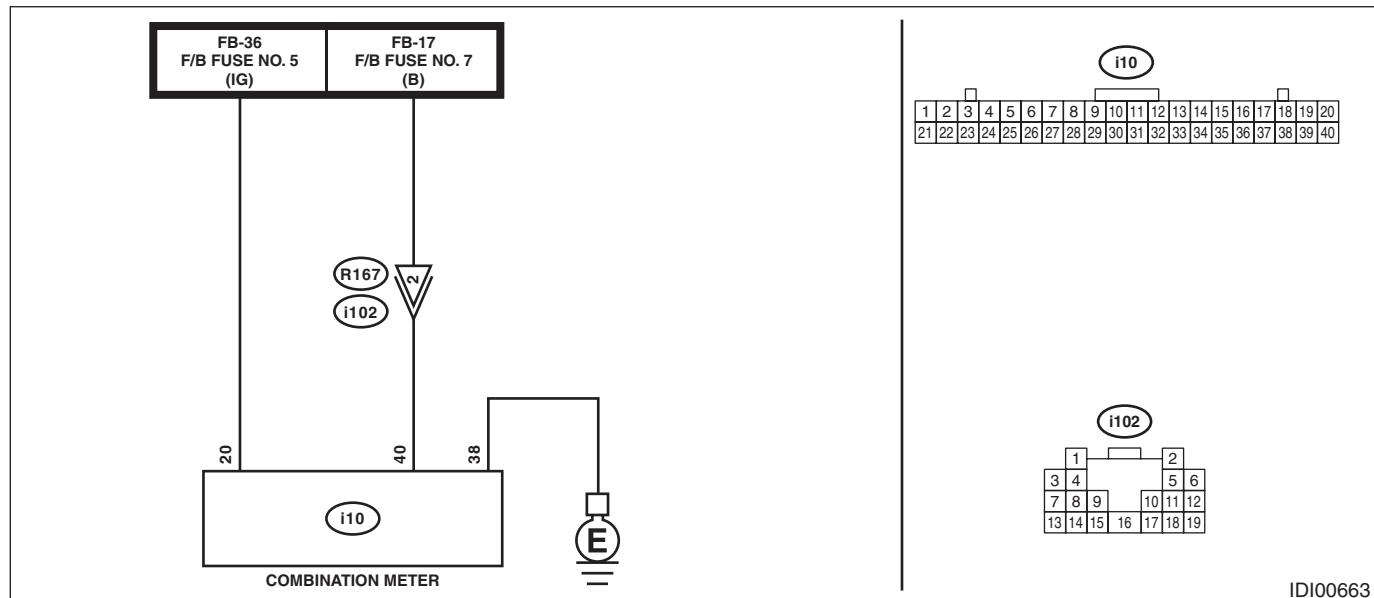
Open or short in combination meter power supply circuit

#### TROUBLE SYMPTOM:

Defective operation of combination meter

#### WIRING DIAGRAM:

Combination meter system <Ref. to WI-110, WIRING DIAGRAM, Combination Meter System. >



Step	Check	Yes	No
1 <b>CHECK POWER SUPPLY CIRCUIT.</b> Turn the ignition switch to ON, and confirm that the illumination of combination meter lights.	Does the illumination light?	Go to step 2.	Go to step 3.
2 <b>CHECK DTC.</b> Read the DTC of the meter using the Subaru Select Monitor.	Is DTC B1501 a current malfunction?	Go to step 3.	Go to step 5.
3 <b>CHECK FUSE.</b> 1) Turn the ignition switch to OFF. 2) Check the fuse.	Is the fuse OK?	Go to step 4.	Replace the defective fuse.
4 <b>CHECK HARNESS.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the meter connector. 3) Using the tester, measure the voltage between terminals. <i>Connector &amp; terminal</i> (i10) No. 20 (+) — Chassis ground (-): (i10) No. 40 (+) — Chassis ground (-):	Is the voltage 8.5 — 16.5 V?	Go to step 5.	Repair the open circuit of harness or replace harness.
5 <b>CHECK CONNECTOR.</b> 1) Turn the ignition switch to OFF. 2) Disconnect connectors.	Is there poor contact of connector?	Repair or replace the poor contact of connector.	A temporary change of voltage occurred.

**T: DTC B1507 EXTERNAL AIR TEMPERATURE OPEN/SHORT-CIRCUIT DETECTION**

## DTC DETECTING CONDITION:

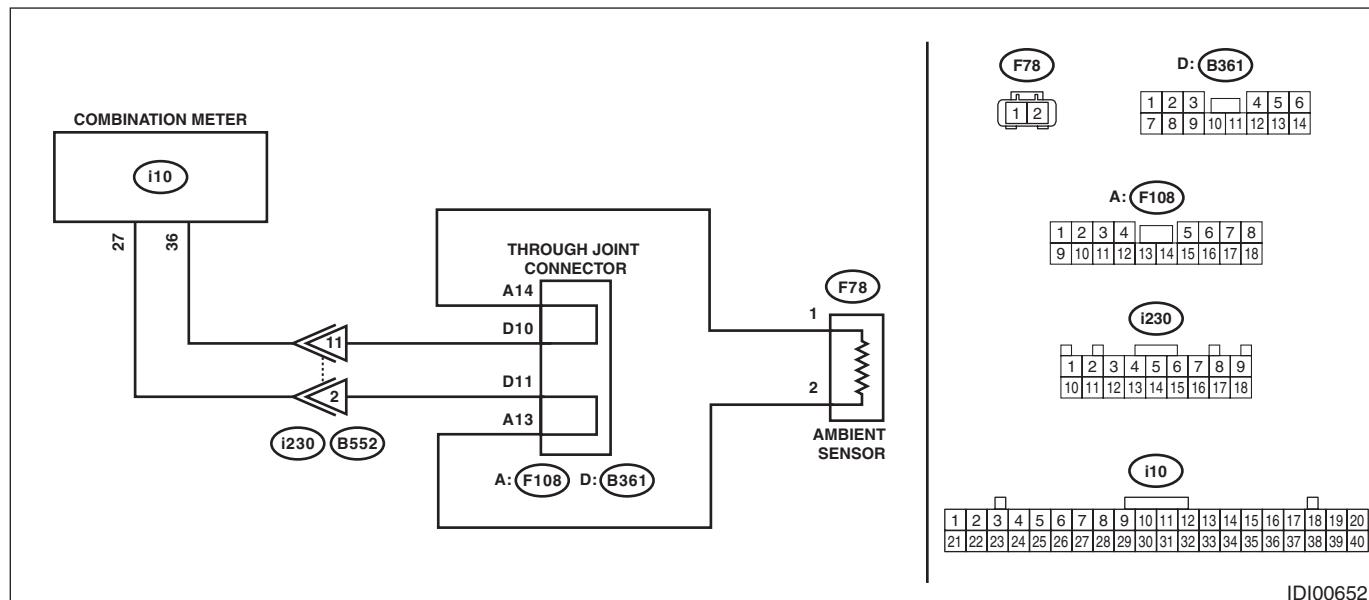
Open or short circuit in ambient sensor.

## TROUBLE SYMPTOM:

- Defective ambient temperature display
- Defective air conditioner operation

## WIRING DIAGRAM:

Air conditioning system <Ref. to WI-67, WIRING DIAGRAM, Air Conditioning System.>



Step	Check	Yes	No
1 <b>CHECK DTC.</b> Read the DTC of the meter using the Subaru Select Monitor.	Is DTC B1507 a current malfunction?	Go to step 2.	Go to step 6.
2 <b>CHECK CURRENT DATA.</b> Using the Subaru Select Monitor, display the «External air temperature sensing value» from {Current Data Display & Save}.	Is data displayed?	System is normal.	Go to step 3.
3 <b>CHECK HARNESS.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the meter connector and ambient sensor connector. 3) Using the tester, measure the resistance between terminals.  <b>Connector &amp; terminal</b> (i10) No. 36 — (F78) No. 1: (i10) No. 27 — (F78) No. 2:	Is the resistance 10 Ω or less?	Go to step 4.	Repair the open circuit of harness or replace harness.
4 <b>CHECK HARNESS.</b> Using the tester, measure the resistance between terminals.  <b>Connector &amp; terminal</b> (i10) No. 36 — <b>Chassis ground:</b> (i10) No. 27 — <b>Chassis ground:</b>	Is the resistance 10 Ω or less?	Repair the short circuit of harness or replace harness.	Go to step 5.
5 <b>CHECK AMBIENT SENSOR.</b> Perform the inspection of ambient sensor unit. <Ref. to AC-81, INSPECTION, Ambient Sensor. >	Is the sensor normal?	Go to step 6.	Replace the sensor.

## Diagnostic Procedure with Diagnostic Trouble Code (DTC)

### INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)

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Step	Check	Yes	No
<b>6</b> <b>CHECK CONNECTOR.</b> 1) Turn the ignition switch to OFF. 2) Disconnect connectors.	Is there poor contact of connector?	Repair or replace the poor contact of connector.	A temporary change of voltage occurred.

# SEATS

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