

Diagnostic Procedure for Subaru Select Monitor Communication

HVAC SYSTEM (AUTO A/C) (DIAGNOSTICS)

11. Diagnostic Procedure for Subaru Select Monitor Communication

A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

DIAGNOSIS:

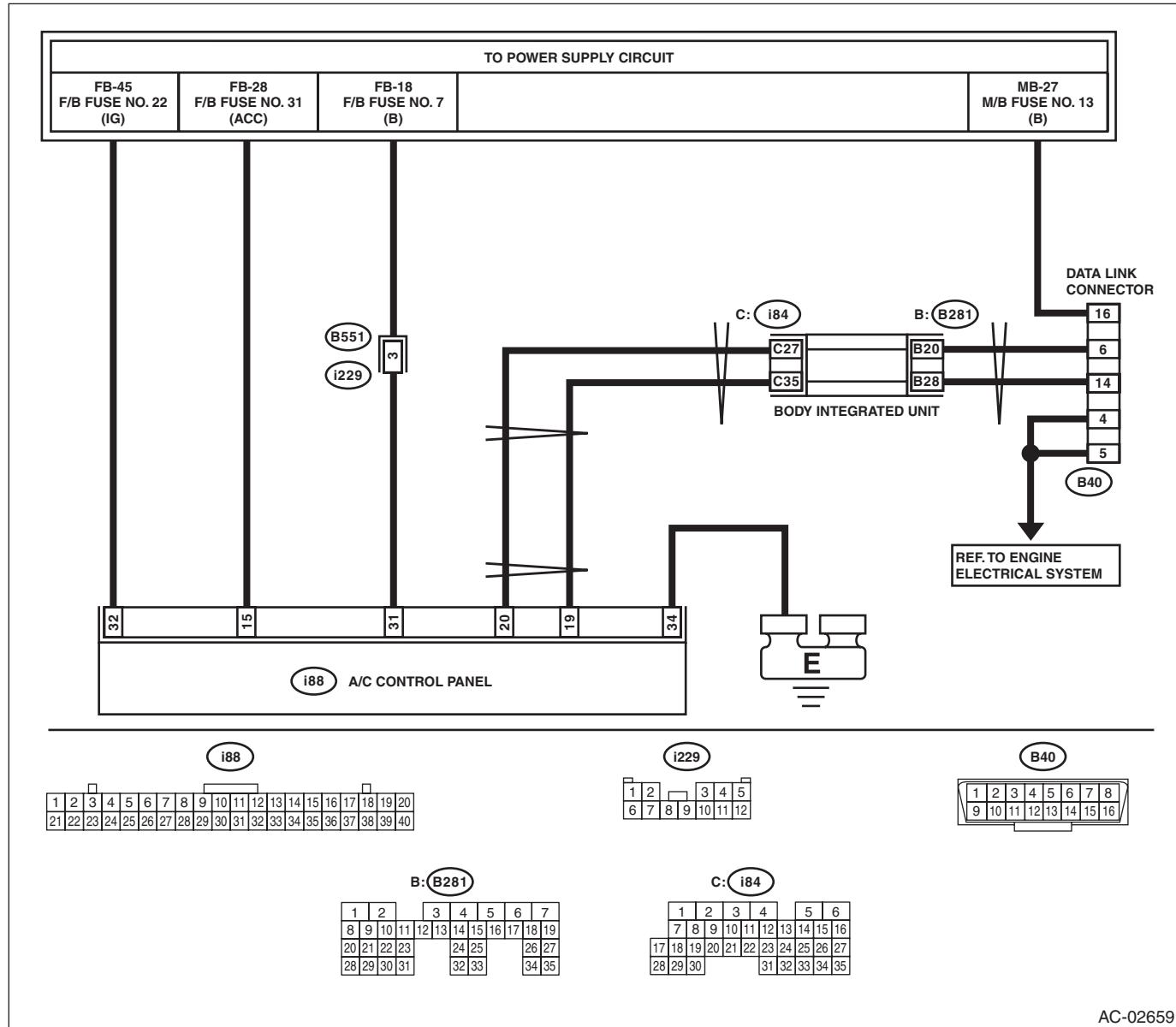
Defective CAN communication circuit

TROUBLE SYMPTOM:

- LAN system is abnormal.
- Communication failure between Subaru Select Monitor and A/C control panel

WIRING DIAGRAM:

Air Conditioning System <Ref. to WI-35, WIRING DIAGRAM, Air Conditioning System.>



AC-02659

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Step	Check	Yes	No
1 CHECK POWER SUPPLY CIRCUIT. Connect SDI (Subaru Diagnosis Interface) to the data link connector.	Is SDI powered on?	Go to step 4.	Go to step 2.
2 CHECK POWER SUPPLY CIRCUIT. Measure the voltage between data link connector and chassis ground. <i>Connector & terminal</i> <i>(B40) No. 16 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 3.	Repair the power supply circuit. NOTE: In this case, repair the following item: <ul style="list-style-type: none">• Open or ground short circuit of harness between battery and data link connector• Blown out of fuse (M/B No. 12)
3 CHECK HARNESS BETWEEN DATA LINK CONNECTOR AND CHASSIS GROUND. 1) Turn the ignition switch to OFF. 2) Measure the resistance of harness between data link connector and chassis ground. <i>Connector & terminal</i> <i>(B40) No. 4 — Chassis ground:</i> <i>(B40) No. 5 — Chassis ground:</i>	Is the resistance less than 5 Ω?	Repair the poor contact of data link connector.	Repair the harness and connector.
4 CHECK SUBARU SELECT MONITOR. 1) Connect the Subaru Select Monitor to a normal vehicle. 2) Start the engine and perform communication between the Subaru Select Monitor and vehicle.	Is communication possible?	Go to step 5.	Use another Subaru Select Monitor because the CAN communication circuit of the Subaru Select Monitor is faulty.
5 CHECK LAN SYSTEM. Check the LAN system. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>	Is LAN system normal?	Go to step 6.	Repair it according to the diagnosis for LAN system.
6 CHECK CONNECTOR. Check for poor contact of power supply circuit connector.	Is there poor contact of connector?	Repair the connector.	Go to step 7.
7 CHECK FUSE. 1) Turn the ignition switch to OFF. 2) Remove a fuse from the fuse box. 3) Check the fuse.	Is the fuse blown out?	Replace the fuse.	Go to step 8.
8 CHECK A/C CONTROL PANEL POWER CIRCUIT. 1) Disconnect the A/C control panel connector. 2) Measure the voltage between A/C control panel connector terminal and chassis ground after turning the ignition switch to ON. <i>Connector & terminal</i> <i>(i88) No. 15 (+) — Chassis ground (-):</i> <i>(i88) No. 31 (+) — Chassis ground (-):</i> <i>(i88) No. 32 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 9.	Check for open or short circuit in the harness between A/C control panel and fuse.
9 CHECK A/C CONTROL PANEL GROUND CIRCUIT. Measure the resistance of harness between A/C control panel and chassis ground. <i>Connector & terminal</i> <i>(i88) No. 34 — Chassis ground:</i>	Is the resistance less than 5 Ω?	Check the connection between the data link connector and Subaru Select Monitor.	Repair the harness for ground line.