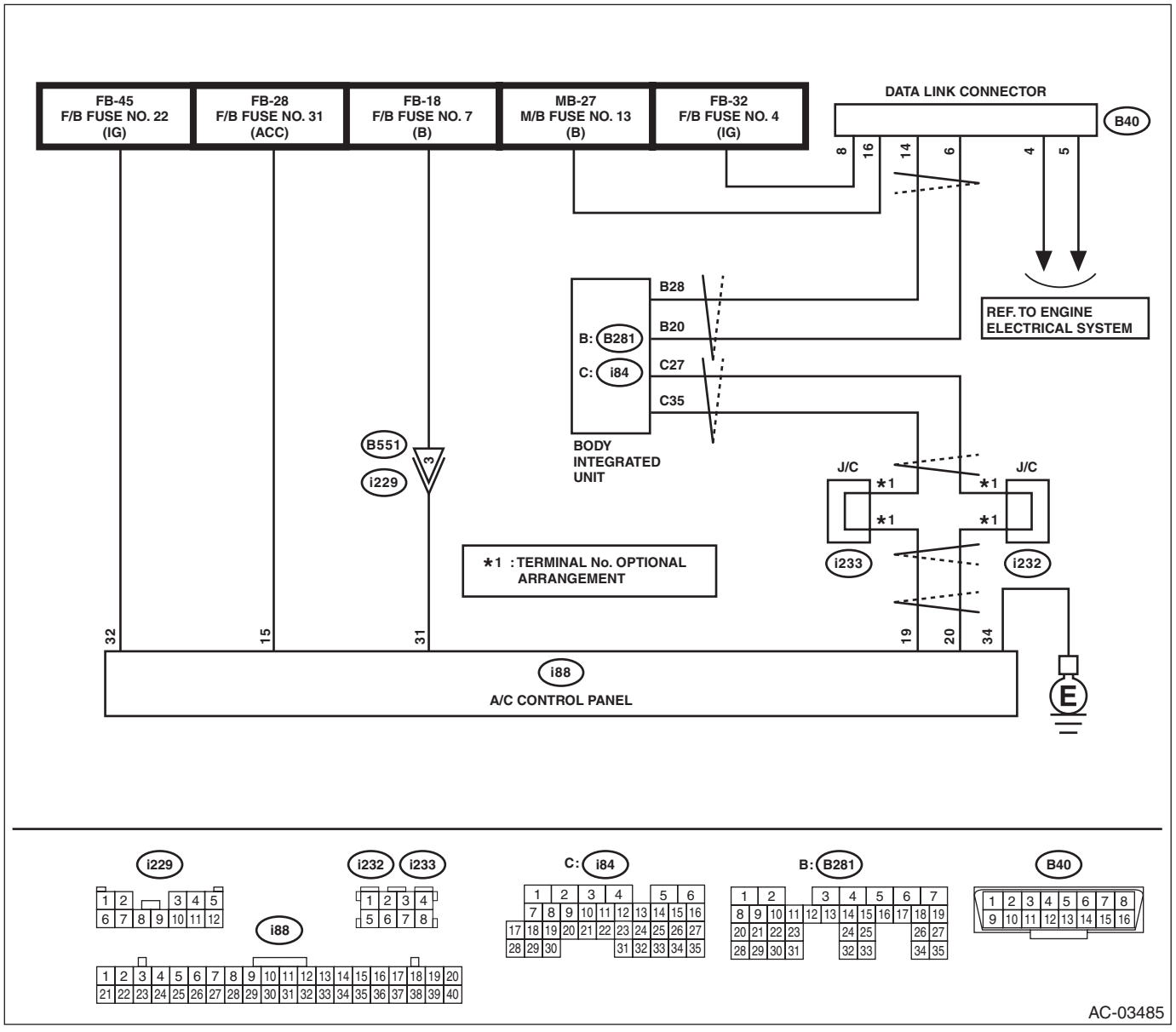
# 13.Diagnostic Procedure for Subaru Select Monitor Communication

## 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-79, WIRING DIAGRAM, Air Conditioning System.>




| Step | | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK POWER SUPPLY CIRCUIT.**<br>Connect SDI (Subaru Diagnosis Interface) to the data link connector. | Is SDI powered on? | Go to step **4**. | Go to step **2**. |

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 2 | **CHECK POWER SUPPLY CIRCUIT.**<br>Measure the voltage between data link connector and chassis ground.<br>***Connector & terminal***<br>***(B40) No. 16 (+) — Chassis ground (–):*** | Is the voltage 10 V or more? | Go to step **3**. | Repair the power supply circuit.<br>NOTE:<br>In this case, repair the following item:<br>• Open or ground short circuit of harness between battery and data link connector<br>• Blown out of fuse (M/B No. 12) |
| 3 | **CHECK HARNESS BETWEEN DATA LINK CONNECTOR AND CHASSIS GROUND.**<br>1) Turn the ignition switch to OFF.<br>2) Measure the resistance of harness between data link connector and chassis ground.<br>***Connector & terminal***<br>***(B40) No. 4 — Chassis ground:***<br>***(B40) No. 5 — Chassis ground:*** | 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.**<br>1) Connect the Subaru Select Monitor to a normal vehicle.<br>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.**<br>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.**<br>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.**<br>1) Turn the ignition switch to OFF.<br>2) Remove a fuse from the fuse box.<br>3) Check the fuse. | Is the fuse blown out? | Replace the fuse. | Go to step **8**. |
| 8 | **CHECK A/C CONTROL PANEL POWER CIRCUIT.**<br>1) Disconnect the A/C control panel connector.<br>2) Measure the voltage between A/C control panel connector terminal and chassis ground after turning the ignition switch to ON.<br>***Connector & terminal***<br>***(i88) No. 15 (+) — Chassis ground (–):***<br>***(i88) No. 31 (+) — Chassis ground (–):***<br>***(i88) No. 32 (+) — Chassis ground (–):*** | 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.**<br>Measure the resistance of harness between A/C control panel and chassis ground.<br>***Connector & terminal***<br>***(i88) No. 34 — Chassis ground:*** | 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. |