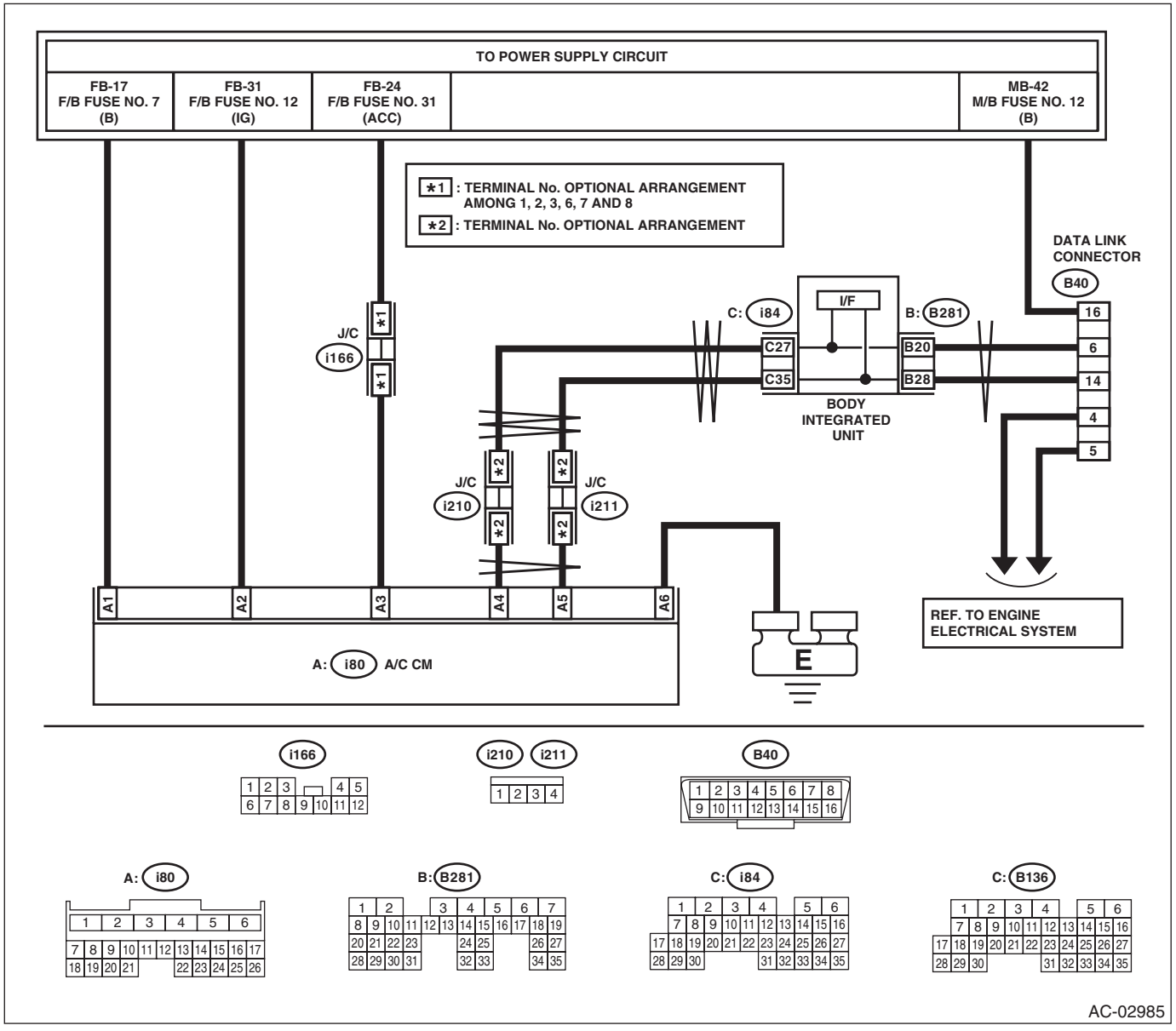
11.Diagnostic Procedure for Subaru Select Monitor Communication

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 CM

WIRING DIAGRAM:
- Air Conditioning System <Ref. to WI-51, WIRING DIAGRAM, Air Conditioning System.>
- CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



	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. ***Connector & terminal*** ***(B40) No. 16 (+) — Chassis ground (–):***	Is the voltage 10 V or more?	Go to step **3**.	Repair the power supply circuit. NOTE: In this case, repair the following item: • 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. ***Connector & terminal*** ***(B40) No. 4 — Chassis ground:*** ***(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.** 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 CAN COMMUNICATION CIRCUIT.** Check the CAN communication circuit. <Ref. to LAN(diag)-11, CAN Communication Circuit Check.>	Is the CAN communication circuit normal?	Go to step **6**.	Repair the CAN communication circuit.
6	**CHECK CONNECTOR.** Check the power supply circuit connectors (i166) and (i80) for poor contact.	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 the fuses No. 7, No. 12 and No. 31 from main fuse box. 3) Check the fuse.	Is the fuse blown out?	Replace the fuse.	Go to step **8**.
8	**CHECK A/C CM POWER SUPPLY CIRCUIT.** 1) Install the A/C control panel. 2) Disconnect the A/C CM connector. 3) Measure the voltage between A/C CM connector terminal and chassis ground after turning the ignition switch to ON. ***Connector & terminal*** ***(i80) No. 1 (+) — Chassis ground (–):*** ***(i80) No. 2 (+) — Chassis ground (–):*** ***(i80) No. 3 (+) — 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 CM and fuse.
9	**CHECK A/C CM GROUND CIRCUIT.** Measure the resistance of harness between A/C CM and chassis ground. ***Connector & terminal*** ***(i80) No. 6 — 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.