

13. Diagnostic Procedure for Select Monitor Communication

A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

DIAGNOSIS:

- Faulty harness connector

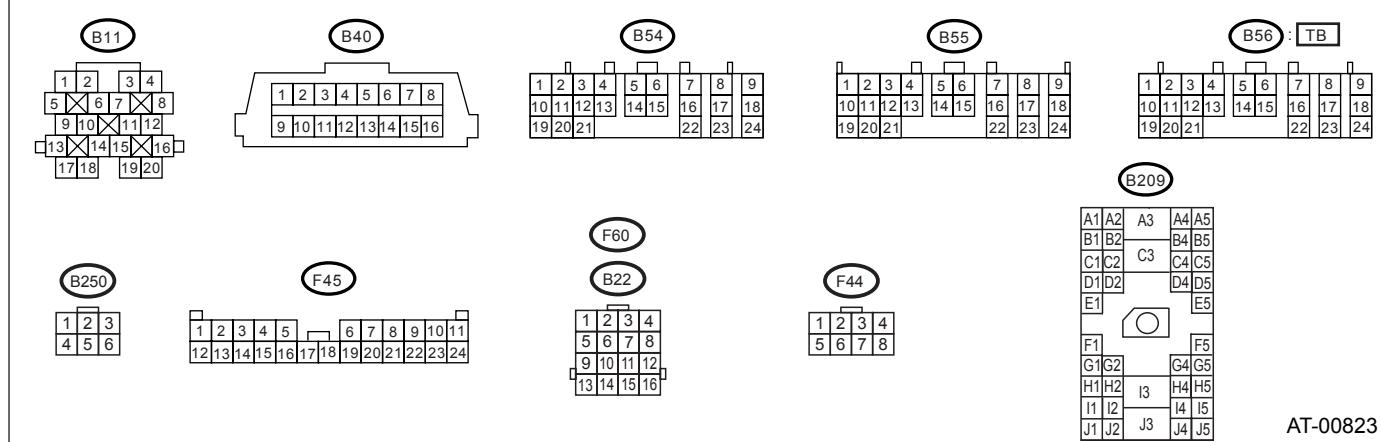
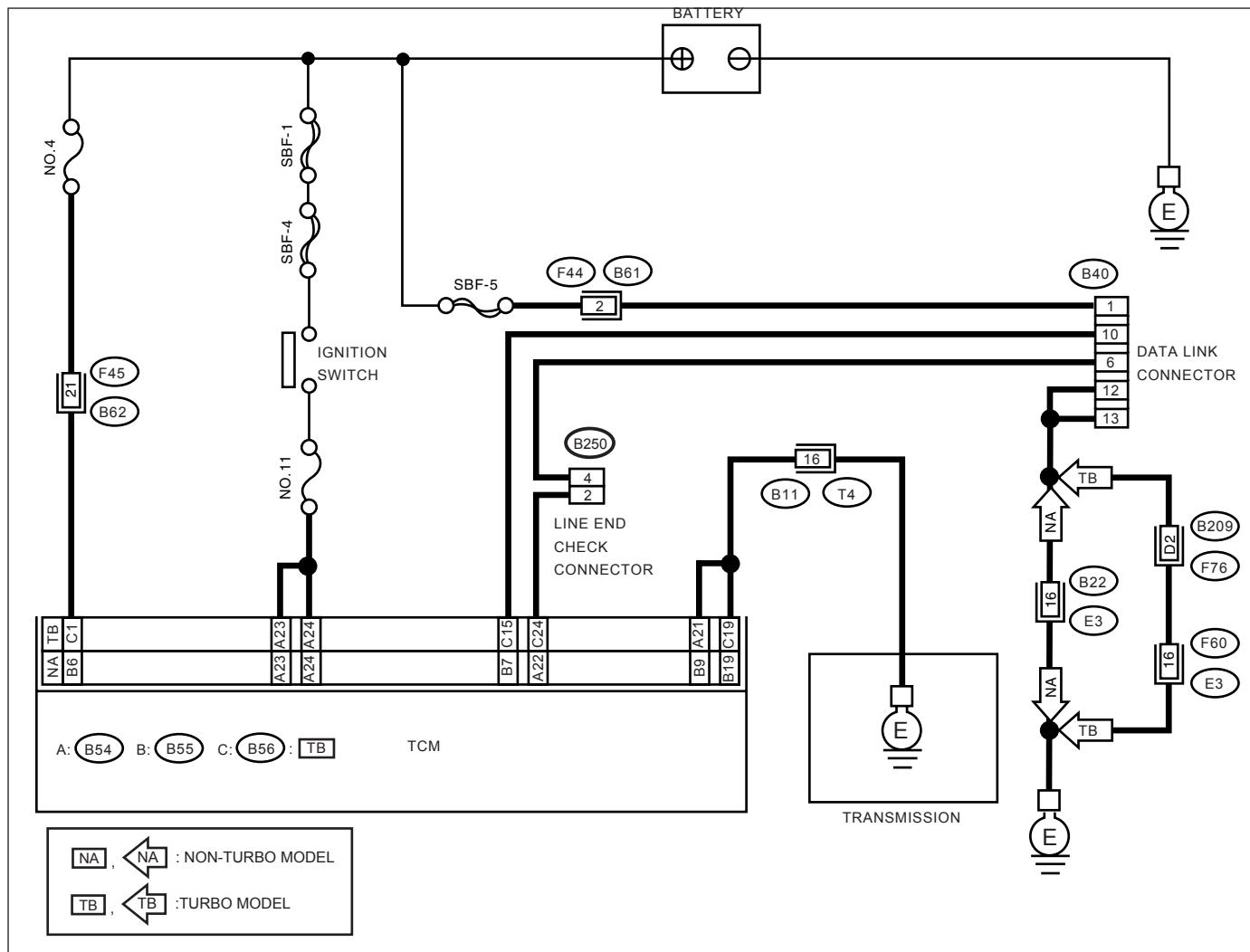
TROUBLE SYMPTOM:

- Select the monitor communication failure

DIAGNOSTIC PROCEDURE FOR SELECT MONITOR COMMUNICATION

AUTOMATIC TRANSMISSION (DIAGNOSTICS)

WIRING DIAGRAM:



AT-00823

DIAGNOSTIC PROCEDURE FOR SELECT MONITOR COMMUNICATION
 AUTOMATIC TRANSMISSION (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SUBARU SELECT MONITOR POWER SUPPLY CIRCUIT. Measure the voltage between data link connector and chassis ground. Connector & terminal (B40) No. 1 — Chassis ground: Is the measured value more than the specified value?	10 V	Go to step 2.	Repair harness and connector between battery and data link connector, and poor contact in coupling connector.
2 CHECK SUBARU SELECT MONITOR GROUND CIRCUIT. Measure the resistance of harness between data link connector and chassis ground. Connector & terminal (B40) No. 12 — Chassis ground: (B40) No. 13 — Chassis ground: Is the measured value less than the specified value?	1 Ω	Go to step 3.	Repair open circuit in harness between data link connector and ground terminal, and poor contact in coupling connector.
3 CHECK COMMUNICATION OF SELECT MONITOR. 1) Turn the ignition switch to ON. 2) Using the select monitor, check whether communication to engine systems can be executed normally. Are the name and year of the system displayed on the select monitor?	The name and year are displayed.	Go to step 6.	Go to step 4.
4 CHECK COMMUNICATION OF SELECT MONITOR. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM connector. 3) Check whether communication to the engine system can be executed normally. Are the name and year of the system displayed on the select monitor?	The name and year are displayed.	Go to step 8.	Go to step 5.
5 CHECK COMMUNICATION OF SELECT MONITOR. 1) Turn the ignition switch to OFF. 2) Connect the TCM connector. 3) Disconnect the ECM connector. 4) Check whether communication to the transmission system can be executed normally. Are the name and year of the system displayed on the select monitor?	The name and year are displayed.	Inspect the ECM.	Go to step 6.
6 CHECK HARNESS CONNECTOR BETWEEN EACH CONTROL MODULE AND DATA LINK CONNECTOR. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and ECM. 3) Measure the resistance between data link connector and chassis ground. Connector & terminal (B40) No. 10 — Chassis ground: (B40) No. 6 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 7.	Repair harness and connector between each control module and data link connector.

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AUTOMATIC TRANSMISSION (DIAGNOSTICS)

Step	Check	Yes	No
7	CHECK OUTPUT SIGNAL FOR TCM. 1) Turn the ignition switch to ON. 2) Measure the voltage between data link and chassis ground. Connector & terminal (B40) No. 10 — Chassis ground: (B40) No. 6 — Chassis ground: Is the measured value more than the specified value?	1 V	Repair harness and connector between each control module and data link connector. A temporary poor contact or harness may be the case. Repair harness or connector in the select monitor communication circuit.
8	CHECK HARNESS/CONNECTOR BETWEEN TCM AND DATA LINK CONNECTOR. Measure the resistance between TCM connector and data link connector. Connector & terminal Non-turbo model (B55) No. 7 — (B40) No. 10: Turbo model (B56) No. 15 — (B40) No. 10: Is the measured value less than the specified value?	0.5 Ω	Go to step 9. Repair harness and connector between TCM and data link connector.
9	CHECK HARNESS BETWEEN TCM AND DATA LINK CONNECTOR Measure the resistance between TCM connector and data link connector. Connector & terminal Non-turbo model (B54) No. 22 — (B40) No. 6: Turbo model (B56) No. 24 — (B40) No. 6: Is the measured value more than the specified value?	1 MΩ	Go to step 10. Repair harness or connector between TCM and data link connector.
10	CHECK POOR CONTACT IN CONNECTORS. Is there poor contact in control module and data link connector?	There is a poor contact.	Repair the poor contact. Replace the TCM. <Ref. to AT-71, Transmission Control Module (TCM).>

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