

DIAGNOSTIC PROCEDURE FOR SELECT MONITOR COMMUNICATION

AUTOMATIC TRANSMISSION (DIAGNOSTICS)

13. Diagnostic Procedure for Select Monitor Communication

A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

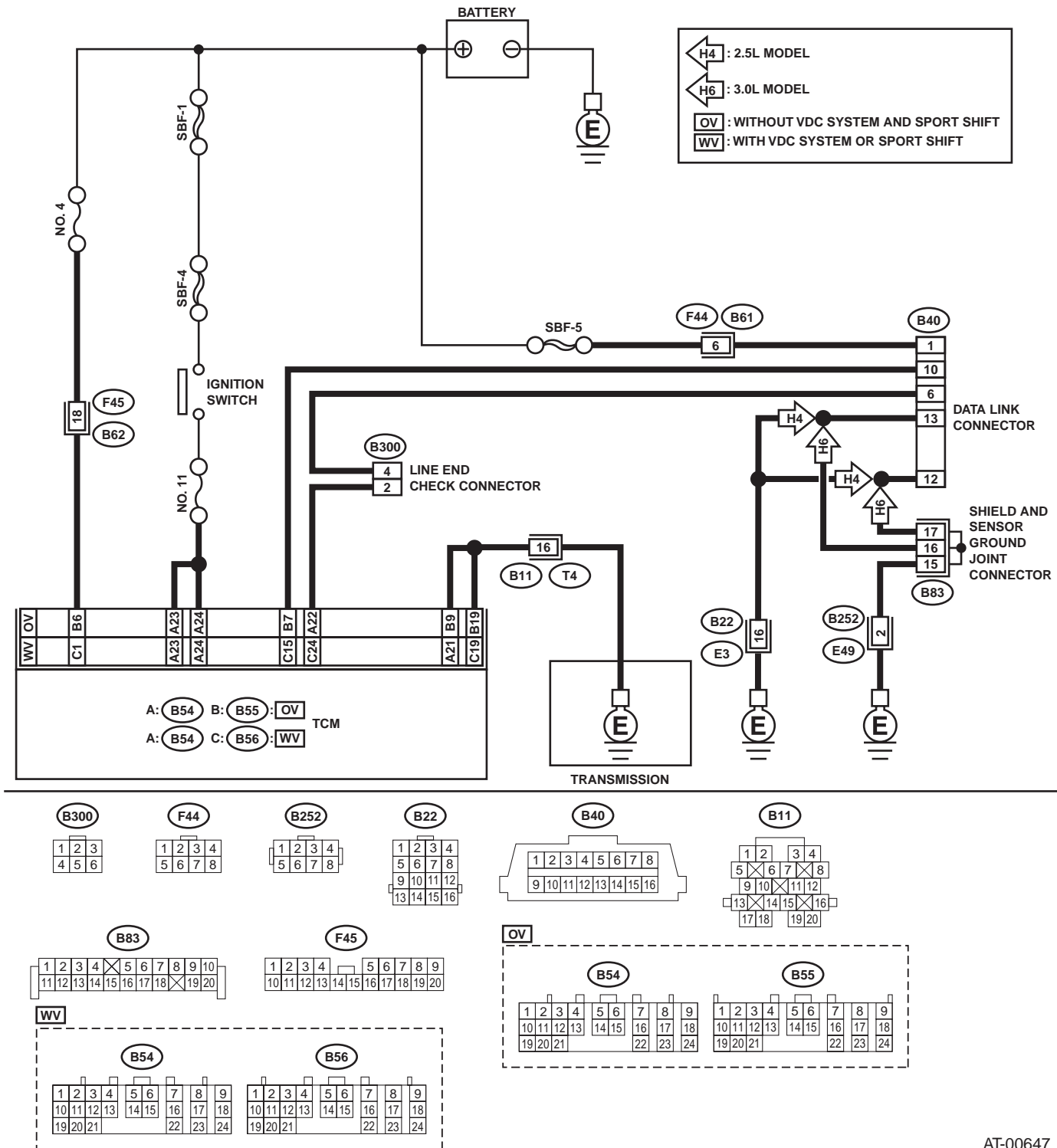
DIAGNOSIS:

- Faulty harness connector

TROUBLE SYMPTOM:

- Select monitor communication failure

WIRING DIAGRAM:



AT-00647

AT-40

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Step	Value	Yes	No
1 CHECK SUBARU SELECT MONITOR POWER SUPPLY CIRCUIT. Measure voltage between data link connector and chassis ground. Connector & terminal (B40) No. 1 — Chassis ground: Does the measured value exceed 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 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 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?	Name and year displayed.	Go to step 6.	Go to step 4.
4 CHECK COMMUNICATION OF SELECT MONITOR. 1) Turn ignition switch to OFF. 2) Disconnect TCM connector. 3) Check whether communication to engine systems can be executed normally. Are the name and year of the system displayed on the select monitor?	Name and year displayed.	Go to step 8.	Go to step 5.
5 CHECK COMMUNICATION OF SELECT MONITOR. 1) Turn ignition switch to OFF. 2) Connect TCM connector. 3) Disconnect ECM connector. 4) Check whether communication to transmission systems can be executed normally. Are the name and year of the system displayed on the select monitor?	Name and year displayed.	Inspect ECM.	Go to step 6.
6 CHECK HARNESS CONNECTOR BETWEEN EACH CONTROL MODULE AND DATA LINK CONNECTOR. 1) Turn ignition switch to OFF. 2) Disconnect TCM and ECM connectors. 3) Measure resistance between data link connector and chassis ground. Connector & terminal (B40) No. 10 — Chassis ground: (B40) No. 6 — Chassis ground: Does the measured value exceed the specified value?	1 M Ω	Go to step 7.	Repair harness and connector between each control module and data link connector.

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Step	Value	Yes	No
7 CHECK OUTPUT SIGNAL FOR TCM. 1) Turn ignition switch to ON. 2) Measure voltage between data link connector and chassis ground. Connector & terminal (B40) No. 10 — Chassis ground: (B40) No. 6 — Chassis ground: Does the measured value exceed the specified value?	1 V	Repair harness and connector between each control module and data link connector.	A temporary poor contact of the connector or harness may be the cause. Repair harness or connector in the circuit.
8 CHECK HARNESS/CONNECTOR BETWEEN TCM AND DATA LINK CONNECTOR. Measure resistance between TCM connector and data link connector. Connector & terminal With VDC system or SPORT shift: (B56) No. 15 — (B40) No. 10: Without VDC system and SPORT shift: (B55) No. 7 — (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/CONNECTOR BETWEEN TCM AND DATA LINK CONNECTOR. Measure resistance between TCM connector and data link connector. Connector & terminal With VDC system or SPORT shift: (B56) No. 24 — (B40) No. 6: Without VDC system and SPORT shift: (B54) No. 22 — (B40) No. 6: Does the measured value exceed the specified value?	1 MΩ	Go to step 10.	Repair harness and connector between TCM and data link connector.
10 CHECK INSTALLATION OF TCM CONNECTOR. Turn ignition switch to OFF. Is TCM connector inserted into TCM?	There is poor contact.	Go to step 11.	Insert TCM connector into TCM.
11 CHECK POOR CONTACT IN CONNECTORS. Is there poor contact in control module and data link connector?	Connector is inserted into TCM.	Repair poor contact.	Replace TCM. <Ref. to AT-75, Transmission Control Module (TCM).>

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MEMO:

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Vehicle-id:
SIE-id: :A:Communication for Initializing Impossible