

DIAGNOSTIC PROCEDURE FOR SUBARU SELECT MONITOR COMMUNICATION

AUTOMATIC TRANSMISSION (DIAGNOSTICS)

13. Diagnostic Procedure for Subaru Select Monitor Communication

A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

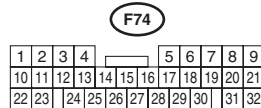
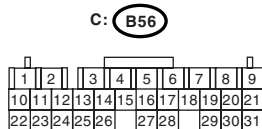
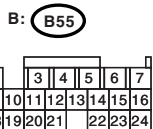
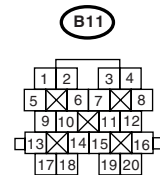
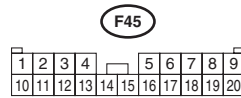
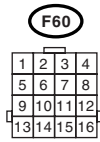
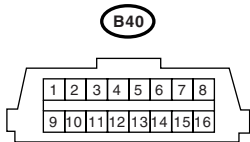
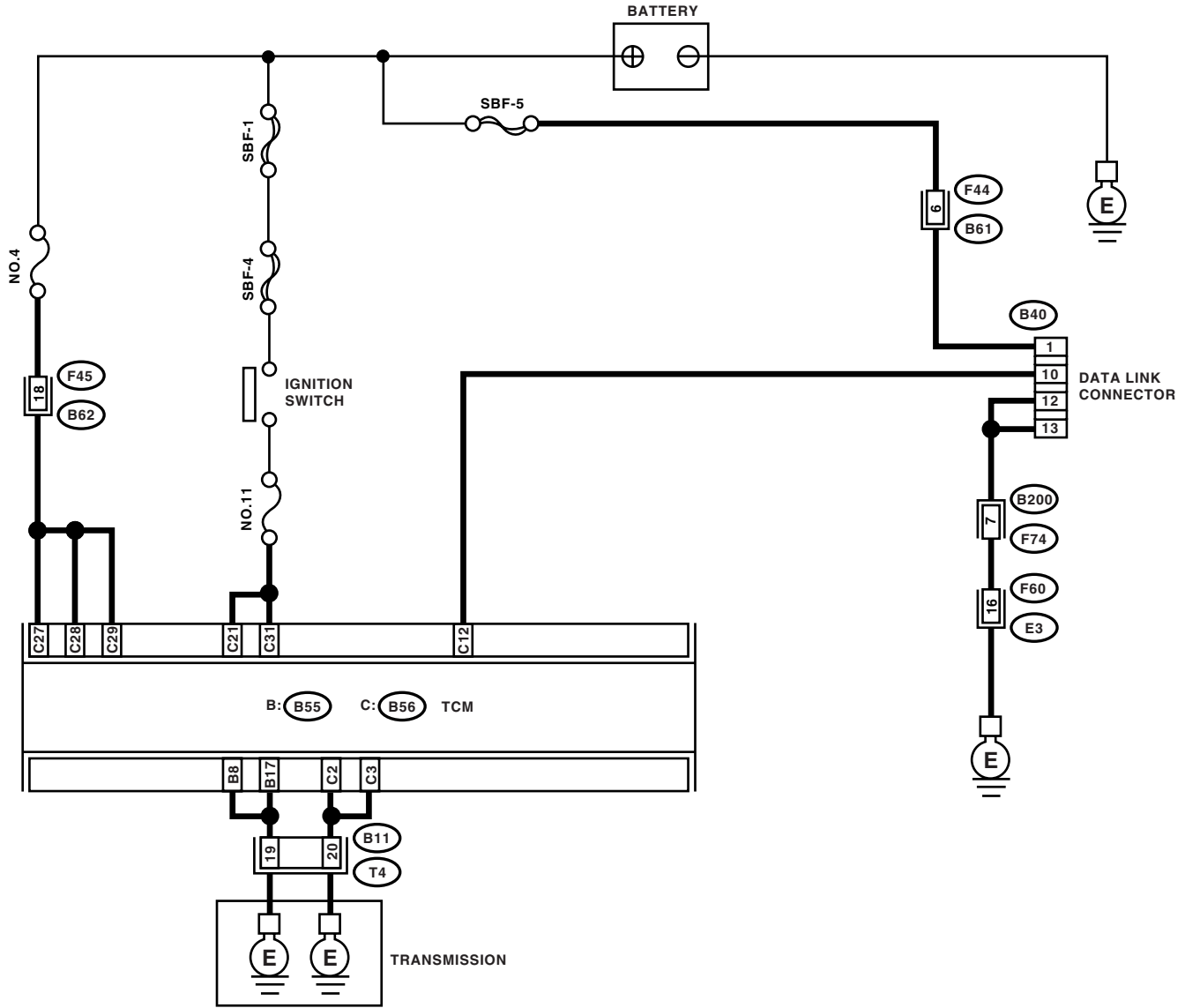
DIAGNOSIS:

- Faulty harness connector

TROUBLE SYMPTOM:

- Subaru Select Monitor communication failure

WIRING DIAGRAM:



AT-01599

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Step	Check	Yes	No
<p>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 (-):</p>	Is the voltage more than 10 V?	Go to step 2.	Repair the harness and connector between battery and data link connector, and poor contact in coupling connector.
<p>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:</p>	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit in harness between data link connector and ground terminal, and poor contact in coupling connector.
<p>3 CHECK COMMUNICATION OF SUBARU SELECT MONITOR. 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, check whether communication to transmission systems can be executed normally.</p>	Is the system name displayed on Subaru Select Monitor?	Go to step 8.	Go to step 4.
<p>4 CHECK COMMUNICATION OF SUBARU SELECT MONITOR. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM connector. 3) Check whether communication to engine systems can be executed normally.</p>	Is the system name displayed on Subaru Select Monitor?	Go to step 6.	Go to step 5.
<p>5 CHECK COMMUNICATION OF SUBARU SELECT MONITOR. 1) Turn the ignition switch to OFF. 2) Connect the TCM connector. 3) Disconnect the ECM connector. 4) Check whether communication to transmission systems can be executed normally.</p>	Is the system name displayed on Subaru Select Monitor?	Inspect the ECM.	Go to step 6.
<p>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 connectors. 3) Measure the resistance between TCM connector and chassis ground. Connector & terminal (B40) No. 10 — Chassis ground:</p>	Is the resistance more than 1 M Ω ?	Go to step 7.	Repair the harness and connector between each control module and data link connector.
<p>7 CHECK OUTPUT SIGNAL FOR TCM. 1) Turn the ignition switch to ON. 2) Measure the voltage between TCM and chassis ground. Connector & terminal (B40) No. 10 (+) — Chassis ground (-):</p>	Is the voltage more than 1 V?	Repair the harness and connector between each control module and data link connector.	Go to step 8.
<p>8 CHECK HARNESS/CONNECTOR BETWEEN TCM AND DATA LINK CONNECTOR. Measure the resistance between TCM connector and data link connector. Connector & terminal (B56) No. 12 — (B40) No. 10:</p>	Is the resistance less than 0.5 Ω ?	Go to step 9.	Repair the harness and connector between TCM and data link connector.

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	Step	Check	Yes	No
9	INSPECTION OF TRANSMISSION HARNESS CONNECTOR.	Is the transmission harness connector inserted into bulk-head harness connector?	Go to step 10.	Connect the bulk-head harness connector to transmission harness connector.
10	CHECK POOR CONTACT IN CONNECTORS.	There is poor contact. Is there poor contact in control module and data link connector?	Repair the poor contact.	Replace the TCM. <Ref. to 4AT-77, Transmission Control Module (TCM).>