

DIAGNOSTIC PROCEDURE FOR SELECT MONITOR COMMUNICATION

Automatic Transmission (Diagnostics)

13. Diagnostic Procedure for Select Monitor Communication S004782

A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE S004782E34

DIAGNOSIS:

- Faulty harness connector

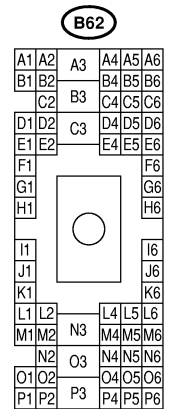
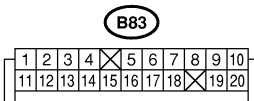
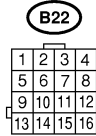
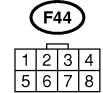
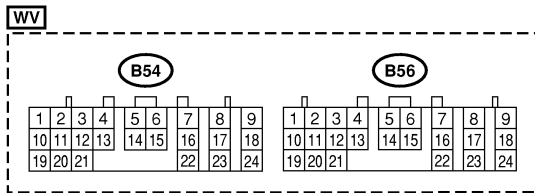
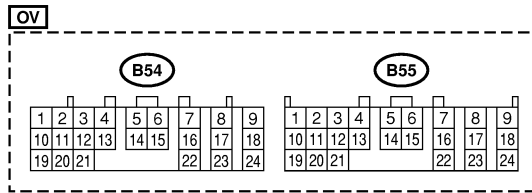
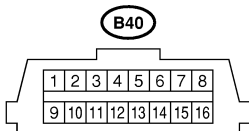
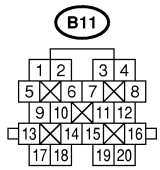
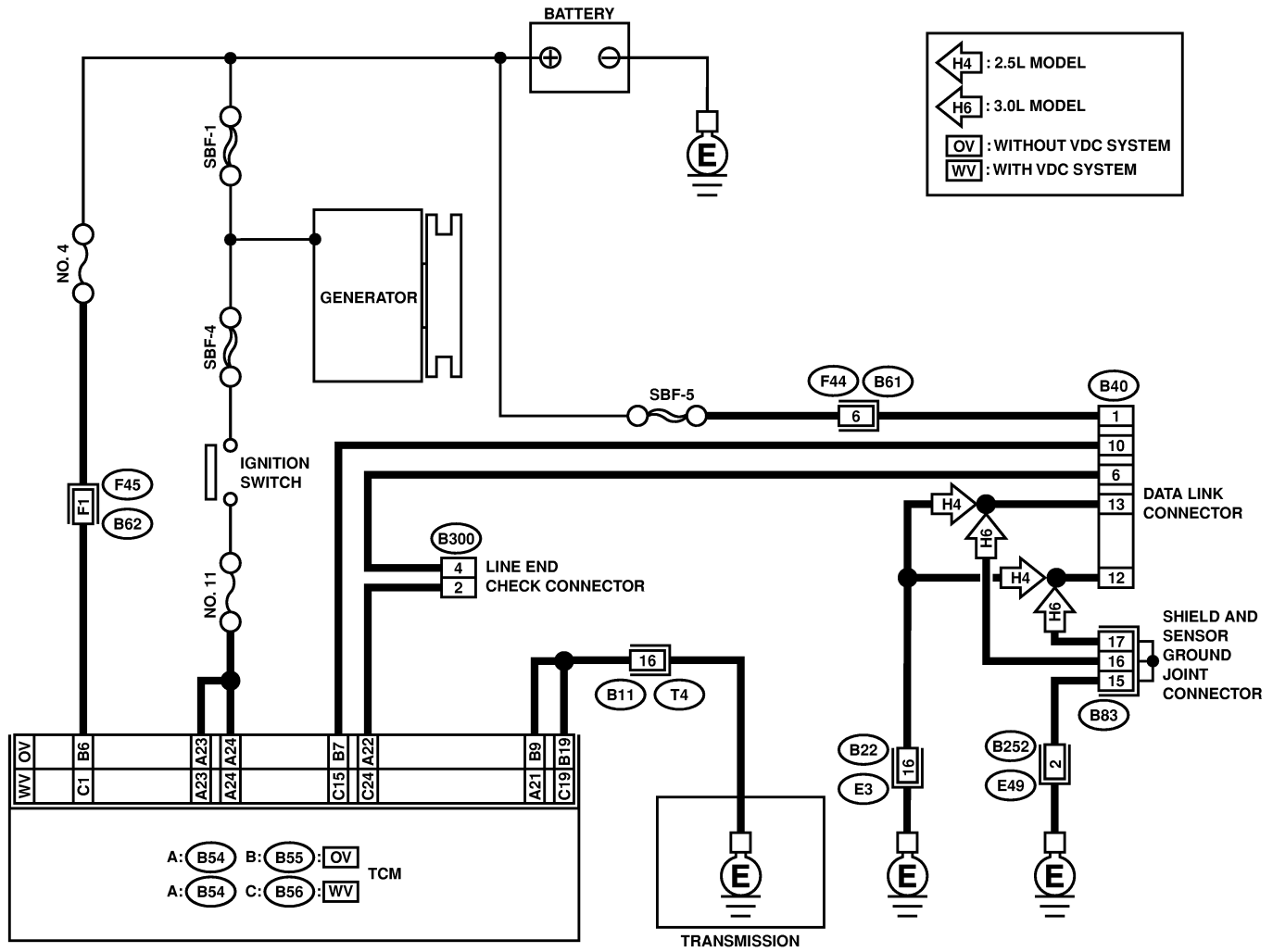
TROUBLE SYMPTOM:

- Select the monitor communication failure

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WIRING DIAGRAM:



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

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No.	Step	Check	Yes	No
8	<p>CHECK HARNESS/CONNECTOR BETWEEN TCM AND DATA LINK CONNECTOR.</p> <p>Measure the resistance between TCM connector and data link connector.</p> <p><i>Connector & terminal</i> <i>Without VDC system</i> <i>(B55) No. 7 — (B40) No. 10:</i> <i>With VDC system</i> <i>(B56) No. 15 — (B40) No. 10:</i></p>	Is the resistance less than 0.5 Ω?	Go to step 9.	Repair harness and connector between TCM and data link connector.
9	<p>CHECK HARNESS/CONNECTOR BETWEEN TCM AND DATA LINK CONNECTOR.</p> <p>Measure the resistance between TCM connector and data link connector.</p> <p><i>Connector & terminal</i> <i>Without VDC system</i> <i>(B54) No. 22 — (B40) No. 6:</i> <i>With VDC system</i> <i>(B56) No. 24 — (B40) No. 6:</i></p>	Is the resistance more than 1 MΩ?	Go to step 10.	Repair harness and connector between TCM and data link connector.
10	<p>CHECK INSTALLATION OF TCM CONNECTOR.</p> <p>Turn the ignition switch to OFF.</p>	Is TCM connector inserted into TCM?	Go to step 11.	Insert the TCM connector into TCM.
11	<p>CHECK POOR CONTACT IN CONNECTORS.</p>	Is there poor contact in control module and data link connector?	Repair the poor contact.	Replace the TCM. <Ref. to AT-49, Transmission Control Module (TCM).>