

# Diagnostic Procedure for Subaru Select Monitor Communication

ENGINE (DIAGNOSTICS)

## 17. Diagnostic Procedure for Subaru Select Monitor Communication

### A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

#### DIAGNOSIS:

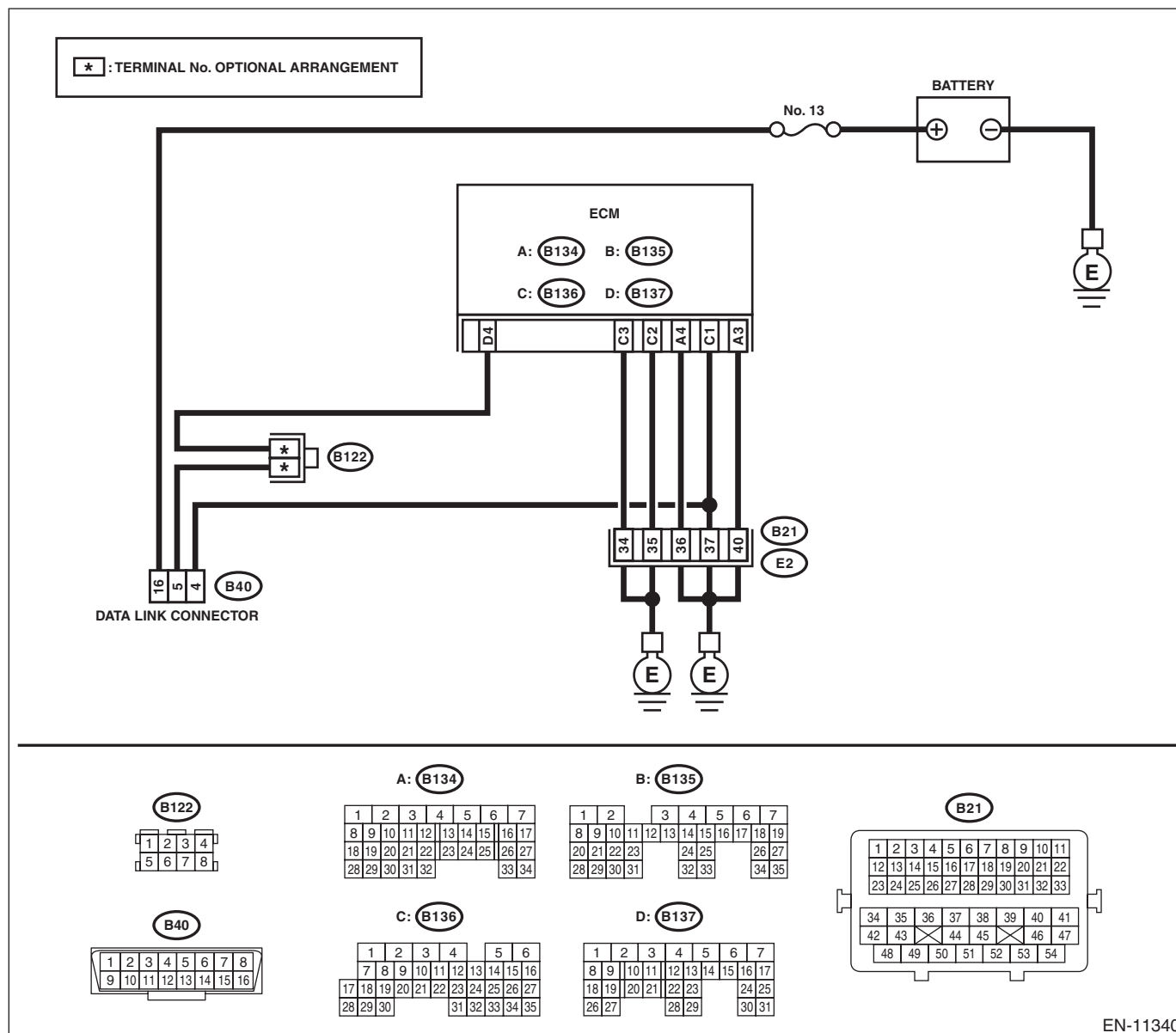
Open or short circuit in data link connector

#### TROUBLE SYMPTOM:

Subaru Select Monitor communication failure

#### WIRING DIAGRAM:

Engine electrical system <Ref. to Wl(w/o HEV)-98, Engine Electrical System.>



Step	Check	Yes	No
1	<b>CHECK POWER SUPPLY CIRCUIT.</b> Connect the SDI (Subaru Diagnosis Interface) or general scan tool to data link connector.	Go to step 4.	Go to step 2.

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Step	Check	Yes	No
<b>2</b> <b>CHECK POWER SUPPLY CIRCUIT.</b> Measure the voltage between data link connector and chassis ground. <i><b>Connector &amp; terminal</b></i> <i><b>(B40) No. 16 (+) — Chassis ground (—):</b></i>	Is the voltage 10 V or more?	Go to step 3.	Repair the power supply circuit. <b>NOTE:</b> 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. 13)
<b>3</b> <b>CHECK HARNESS BETWEEN DATA LINK CONNECTOR AND CHASSIS GROUND.</b> 1) Turn the ignition switch to OFF. 2) Measure the resistance of harness between data link connector and chassis ground. <i><b>Connector &amp; terminal</b></i> <i><b>(B40) No. 4 — Chassis ground:</b></i> <i><b>(B40) No. 5 — Chassis ground:</b></i>	Is the resistance less than 5 $\Omega$ ?	Repair the poor contact of data link connector.	Repair the harness and connector. <b>NOTE:</b> In this case, repair the following item: • Open circuit in harness between ECM connector and data link connector • Open circuit of harness between ECM connector and engine ground • Poor contact of ECM connector • Poor contact of coupling connector
<b>4</b> <b>CHECK HARNESS BETWEEN ECM AND DATA LINK CONNECTOR.</b> Measure the resistance between data link connector and chassis ground. <i><b>Connector &amp; terminal</b></i> <i><b>(B40) No. 7 — Chassis ground:</b></i>	Is the resistance 1 M $\Omega$ or more?	Repair the poor contact of the ECM or data link connector.	Repair the short circuit to ground in harness between ECM connector and data link connector.