

## 18. Diagnostic Procedure for Subaru Select Monitor Communication

### A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

#### DIAGNOSIS:

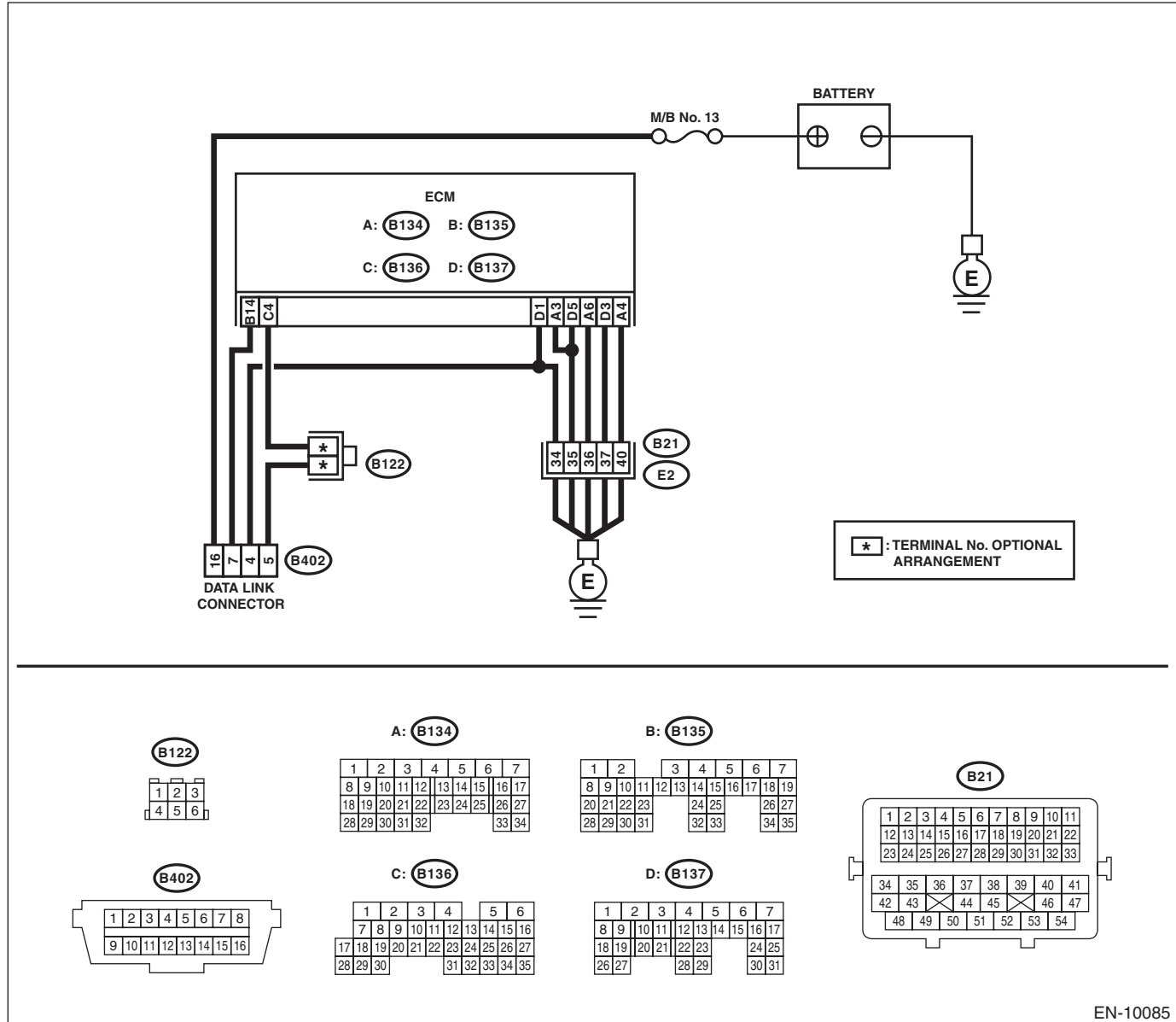
Open or short circuit in data link connector

#### TROUBLE SYMPTOM:

Subaru Select Monitor communication failure

#### WIRING DIAGRAM:

Engine electrical system <Ref. to WI-32, Engine Electrical System.>



# Diagnostic Procedure for Subaru Select Monitor Communication

ENGINE (DIAGNOSTICS)

Step	Check	Yes	No
<b>1 CHECK POWER SUPPLY CIRCUIT.</b> Connect the SDI (Subaru Diagnosis Interface) or general scan tool to data link connector.	Does SDI or general scan tool turn ON?	Go to step 4.	Go to step 2.
<b>2 CHECK POWER SUPPLY CIRCUIT.</b> Measure the voltage between data link connector and chassis ground. <b>Connector &amp; terminal</b> <b>(B402) No. 16 (+) — Chassis ground (-):</b>	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: <ul style="list-style-type: none"> <li>• Open or ground short circuit of harness between battery and data link connector</li> <li>• Blown out of fuse (M/B No. 13)</li> </ul>
<b>3 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. <b>Connector &amp; terminal</b> <b>(B402) No. 4 — Chassis ground:</b> <b>(B402) No. 5 — Chassis ground:</b>	Is the resistance less than 5 Ω?	Repair the poor contact of data link connector.	Repair the harness and connector. <b>NOTE:</b> In this case, repair the following item: <ul style="list-style-type: none"> <li>• Open circuit of harness between ECM and data link connector</li> <li>• Open circuit of harness between ECM and engine ground</li> <li>• Poor contact of ECM connector</li> <li>• Poor contact of coupling connector</li> </ul>
<b>4 CHECK HARNESS BETWEEN ECM AND DATA LINK CONNECTOR.</b> 1) Disconnect the connector from ECM, TCM, VDC CM, airbag CM and body integrated unit. <b>CAUTION:</b> <b>When disconnecting the connector from airbag CM, always follow the precautions on AB section. &lt;Ref. to AB-4, CAUTION, General Description.&gt;</b> 2) Measure the resistance of harness between ECM and data link connector. <b>Connector &amp; terminal</b> <b>(B135) No. 14 — (B402) No. 7:</b>	Is the resistance less than 1 Ω?	Go to step 5.	Repair the open circuit of harness between ECM and data link connector.
<b>5 CHECK HARNESS BETWEEN ECM AND DATA LINK CONNECTOR.</b> Measure the resistance between data link connector and chassis ground. <b>Connector &amp; terminal</b> <b>(B407) No. 7 — Chassis ground:</b>	Is the resistance 1 MΩ or more?	Repair the poor contact of the ECM or data link connector.	Repair the ground short circuit of harness between ECM and data link connector.