

## Diagnostic Procedure for Subaru Select Monitor Communication

## ENGINE (DIAGNOSTICS)

## 18. Diagnostic Procedure for Subaru Select Monitor Communication

## A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

## DIAGNOSIS:

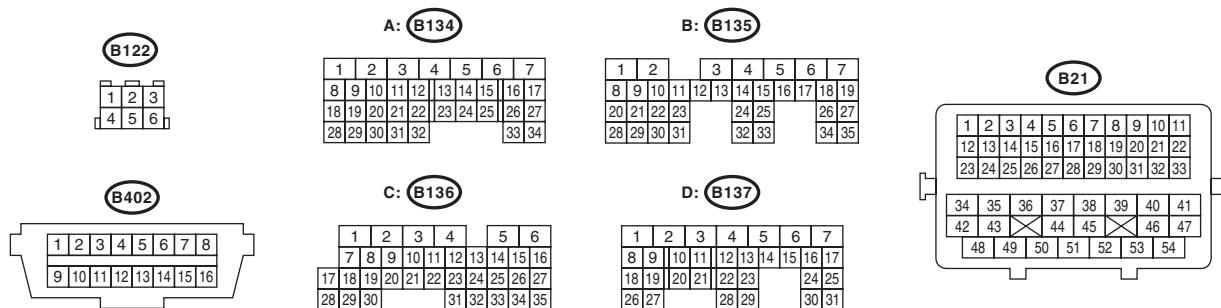
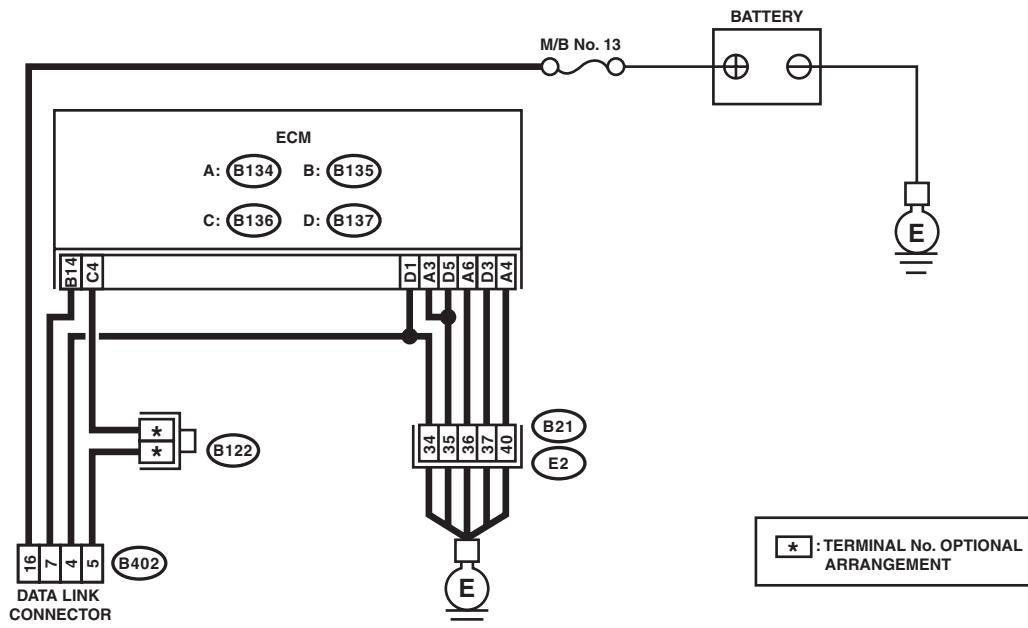
Open or short circuit in data link connector

## TROUBLE SYMPTOM:

Subaru Select Monitor communication failure

## WIRING DIAGRAM:

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



EN-10085

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.	Does SDI or general scan tool turn ON?	Go to step 4.	Go to step 2.

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Step	Check	Yes	No
2 <b>CHECK POWER SUPPLY CIRCUIT.</b> Measure the voltage between data link connector and chassis ground.  <i>Connector &amp; terminal</i> <i>(B402) No. 16 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 3.	Repair the power supply circuit.  NOTE: 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>
3 <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>Connector &amp; terminal</i> <i>(B402) No. 4 — Chassis ground:</i> <i>(B402) No. 5 — Chassis ground:</i>	Is the resistance less than 5 $\Omega$ ?	Repair the poor contact of data link connector.	Repair the harness and connector.  NOTE: In this case, repair the following item: <ul style="list-style-type: none"><li>• Open circuit in harness between ECM connector and data link connector</li><li>• Open circuit of harness between ECM connector and engine ground</li><li>• Poor contact of ECM connector</li><li>• Poor contact of coupling connector</li></ul>
4 <b>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 connector and data link connector.  <i>Connector &amp; terminal</i> <i>(B135) No. 14 — (B402) No. 7:</i>	Is the resistance less than 1 $\Omega$ ?	Go to step 5.	Repair the open circuit of harness between ECM connector and data link connector.
5 <b>CHECK HARNESS BETWEEN ECM AND DATA LINK CONNECTOR.</b> Measure the resistance between data link connector and chassis ground.  <i>Connector &amp; terminal</i> <i>(B407) No. 7 — Chassis ground:</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.