

Diagnostic Procedure for Subaru Select Monitor Communication

ENGINE (DIAGNOSTICS)

18. Diagnostic Procedure for Subaru Select Monitor Communication

A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

DIAGNOSIS:

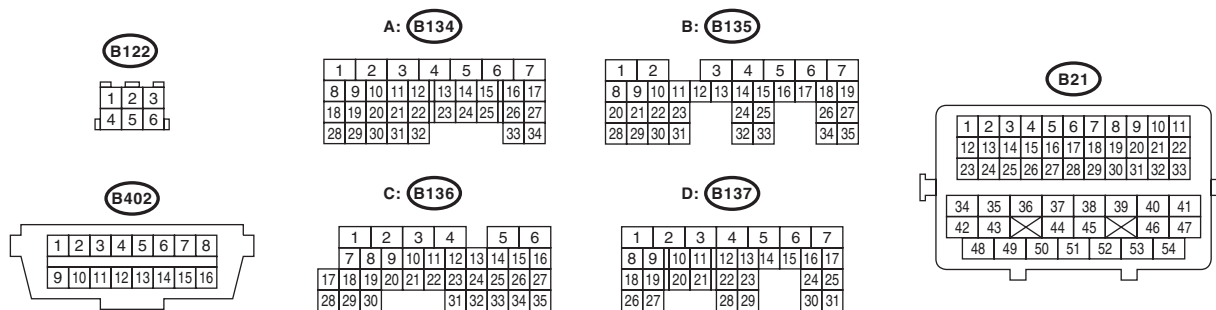
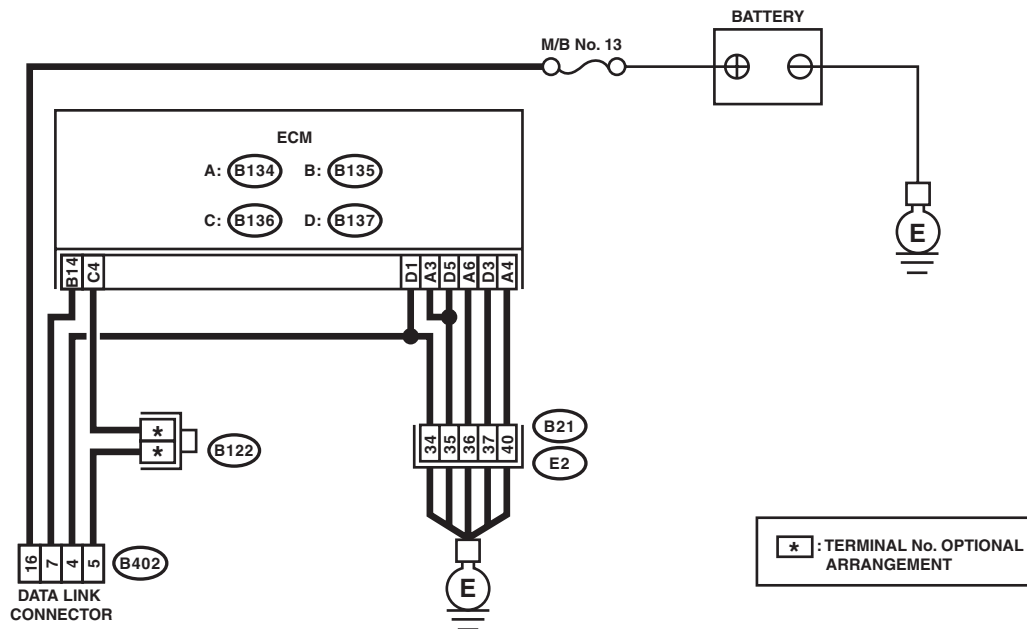
Open or short circuit in data link connector

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	CHECK POWER SUPPLY CIRCUIT. 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
2 CHECK POWER SUPPLY CIRCUIT. Measure the voltage between data link connector and chassis ground. Connector & terminal (B402) No. 16 (+) — Chassis ground (-):	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"> • Open or ground short circuit of harness between battery and data link connector • Blown out of fuse (M/B No. 13)
3 CHECK HARNESS BETWEEN DATA LINK CONNECTOR AND CHASSIS GROUND. 1) Turn the ignition switch to OFF. 2) Measure the resistance of harness between data link connector and chassis ground. Connector & terminal (B402) No. 4 — Chassis ground: (B402) No. 5 — Chassis ground:	Is the resistance less than 5 Ω ?	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"> • 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
4 CHECK HARNESS BETWEEN ECM AND DATA LINK CONNECTOR. 1) Disconnect the connector from ECM, TCM, VDC CM, airbag CM and body integrated unit. CAUTION: When disconnecting the connector from airbag CM, always follow the precautions on AB section. <Ref. to AB-4, CAUTION, General Description.> 2) Measure the resistance of harness between ECM connector and data link connector. Connector & terminal (B135) No. 14 — (B402) No. 7:	Is the resistance less than 1 Ω ?	Go to step 5.	Repair the open circuit of harness between ECM connector and data link connector.
5 CHECK HARNESS BETWEEN ECM AND DATA LINK CONNECTOR. Measure the resistance between data link connector and chassis ground. Connector & terminal (B407) No. 7 — Chassis ground:	Is the resistance 1 M Ω 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.