

ENGINE (DIAGNOSTICS)

A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

Open or short circuit in data link connector

Subaru Select Monitor communication failure

Wiring Diagram for ECM

The diagram shows the ECM (Engine Control Module) connected to the BATTERY (No. 13) and a BATTERY symbol. The ECM has terminals A: B134, C: B136, and D: B137. The connections are as follows:

- BATTERY (No. 13):** Connected to the positive terminal of the BATTERY.
- DATA LINK CONNECTOR:** Connected to terminals 16, 7, 4, and 5 of the DATA LINK CONNECTOR.
- B40:** Connected to the DATA LINK CONNECTOR.
- B122:** Connected to the DATA LINK CONNECTOR.
- B440 and B442:** Connected to the DATA LINK CONNECTOR.
- B134 (A):** Connected to terminal 16 of the DATA LINK CONNECTOR.
- B136 (C):** Connected to terminal 7 of the DATA LINK CONNECTOR.
- B137 (D):** Connected to terminal 4 of the DATA LINK CONNECTOR.
- B21:** Connected to terminal 5 of the DATA LINK CONNECTOR.
- E2:** Connected to terminal 16 of the DATA LINK CONNECTOR.

Legend: * : TERMINAL No. OPTIONAL ARRANGEMENT

Terminal Arrangements:

- B440:** 1 2 3 4 5
- B442:** 1 2 3 4 5
- B40:** 1 2 3 4 5 6 7 8
- B122:** 1 2 3 4 5 6 7 8
- A: B134:** 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
- C: B136:** 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
- D: B137:** 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
- B21:** 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54

Diagnostic Procedure for Subaru Select Monitor Communication

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Step	Check	Yes	No
1 CHECK POWER SUPPLY CIRCUIT. 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.
2 CHECK POWER SUPPLY CIRCUIT. Measure the voltage between data link connector and chassis ground. Connector & terminal (B40) 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: • 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 (B40) No. 4 — Chassis ground: (B40) 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: • Open circuit of harness between ECM and data link connector • Open circuit of harness between ECM and engine ground • Poor contact in ECM connector • Poor contact of coupling connector
4 CHECK HARNESS BETWEEN ECM AND DATA LINK CONNECTOR. 1) Disconnect the connector from ECM, TCM, VDC CU, airbag CM and body integrated unit. CAUTION: When disconnecting the connector from airbag control module, always follow the precautions on AB section. <Ref. to AB-5, CAUTION, General Description.> 2) Measure the resistance of harness between ECM and data link connector. Connector & terminal (B136) No. 16 — (B40) No. 7:	Is the resistance less than 1 Ω ?	Go to step 5.	Repair the harness and connector. NOTE: In this case, repair the following item: • Open circuit of harness between ECM and data link connector • Poor contact of coupling connector
5 CHECK HARNESS BETWEEN ECM AND DATA LINK CONNECTOR. Measure the resistance between data link connector and chassis ground. Connector & terminal (B40) No. 7 — Chassis ground:	Is the resistance 1 M Ω or more?	Repair the poor contact in the ECM or data link connector.	Repair the ground short circuit of harness between ECM and data link connector.