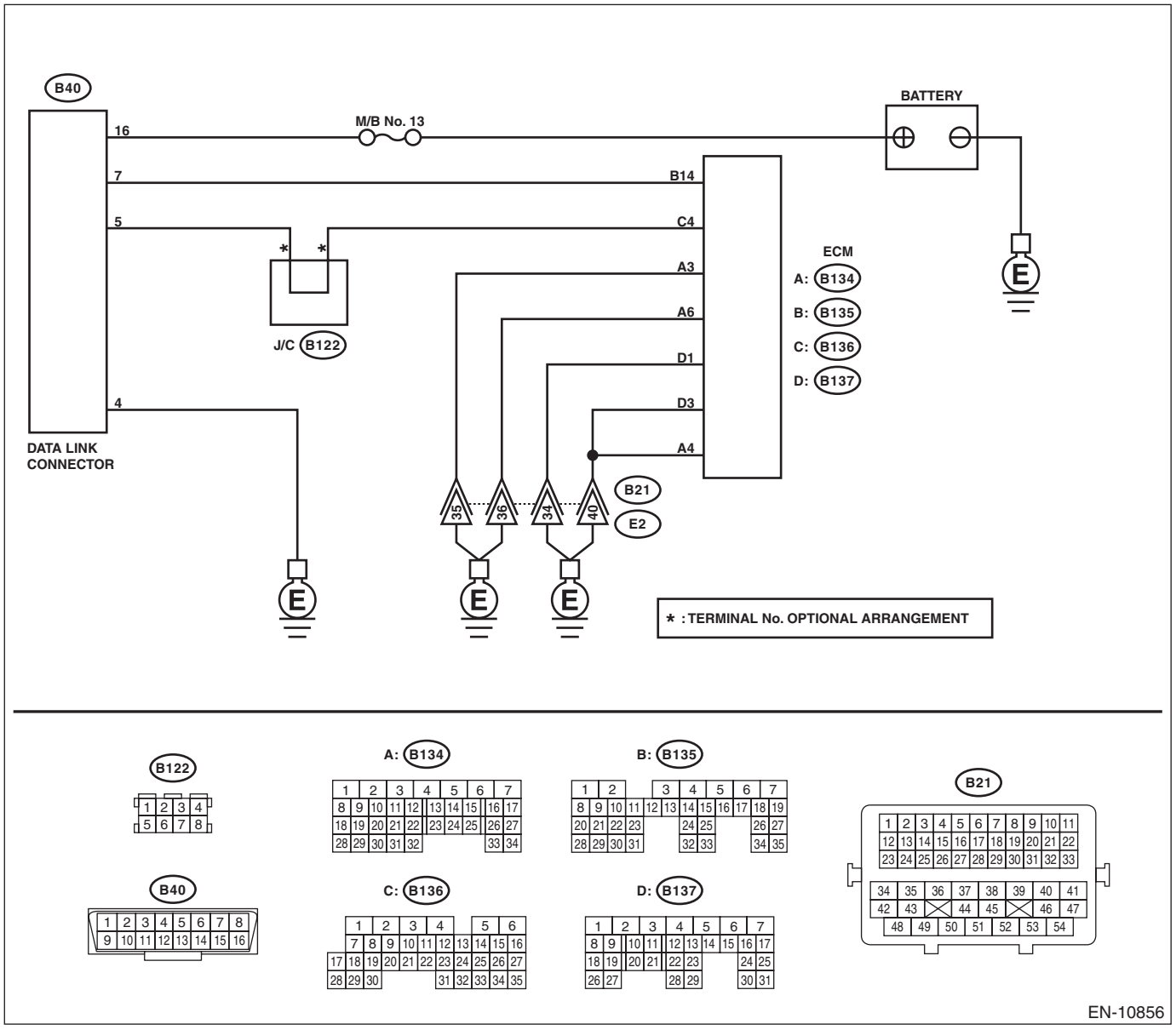
# 17.Diagnostic Procedure for Subaru Select Monitor Communication

## 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 ENGINE TYPE EJ (WITHOUT PUSH BUTTON START) <Ref. to WI-198, ENGINE TYPE EJ (WITHOUT PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>
• Engine Electrical System ENGINE TYPE EJ (WITH PUSH BUTTON START) <Ref. to WI-218, ENGINE TYPE EJ (WITH PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>




| Step | | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK POWER SUPPLY CIRCUIT.**<br>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**. |

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 2 | **CHECK POWER SUPPLY CIRCUIT.**<br>Measure the voltage between data link connector and chassis ground.<br>***Connector & terminal***<br>***(B40) No. 16 (+) — Chassis ground (–):*** | Is the voltage 10 V or more? | Go to step **3**. | Repair the power supply circuit.<br>NOTE:<br>In this case, repair the following item:<br>• Open or ground short circuit of harness between battery and data link connector<br>• Blown out of fuse (M/B No. 13) |
| 3 | **CHECK HARNESS BETWEEN DATA LINK CONNECTOR AND CHASSIS GROUND.**<br>1) Turn the ignition switch to OFF.<br>2) Measure the resistance of harness between data link connector and chassis ground.<br>***Connector & terminal***<br>***(B40) No. 4 — Chassis ground:***<br>***(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.<br>NOTE:<br>In this case, repair the following item:<br>• Open circuit in harness between ECM connector and data link connector<br>• Open circuit of harness between ECM connector and engine ground<br>• Poor contact of ECM connector<br>• Poor contact of joint connector |
| 4 | **CHECK HARNESS BETWEEN ECM AND DATA LINK CONNECTOR.**<br>1) Disconnect the connectors from ECM, DCCD CM, VDC CM, airbag CM, impact sensor, TPMS & keyless entry CM, and body integrated unit.<br>**CAUTION:**<br>**When disconnecting the connector from airbag CM, always follow the precautions on AB section. <Ref. to AB-9, CAUTION, General Description.>**<br>2) Measure the resistance of harness between ECM connector and data link connector.<br>***Connector & terminal***<br>***(B135) No. 14 — (B40) 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.**<br>Measure the resistance between data link connector and chassis ground.<br>***Connector & terminal***<br>***(B40) No. 7 — Chassis ground:*** | Is the resistance 1 MΩ or more? | Repair the poor contact of ECM connector or data link connector. | Repair the short circuit to ground in harness between ECM connector and data link connector. |