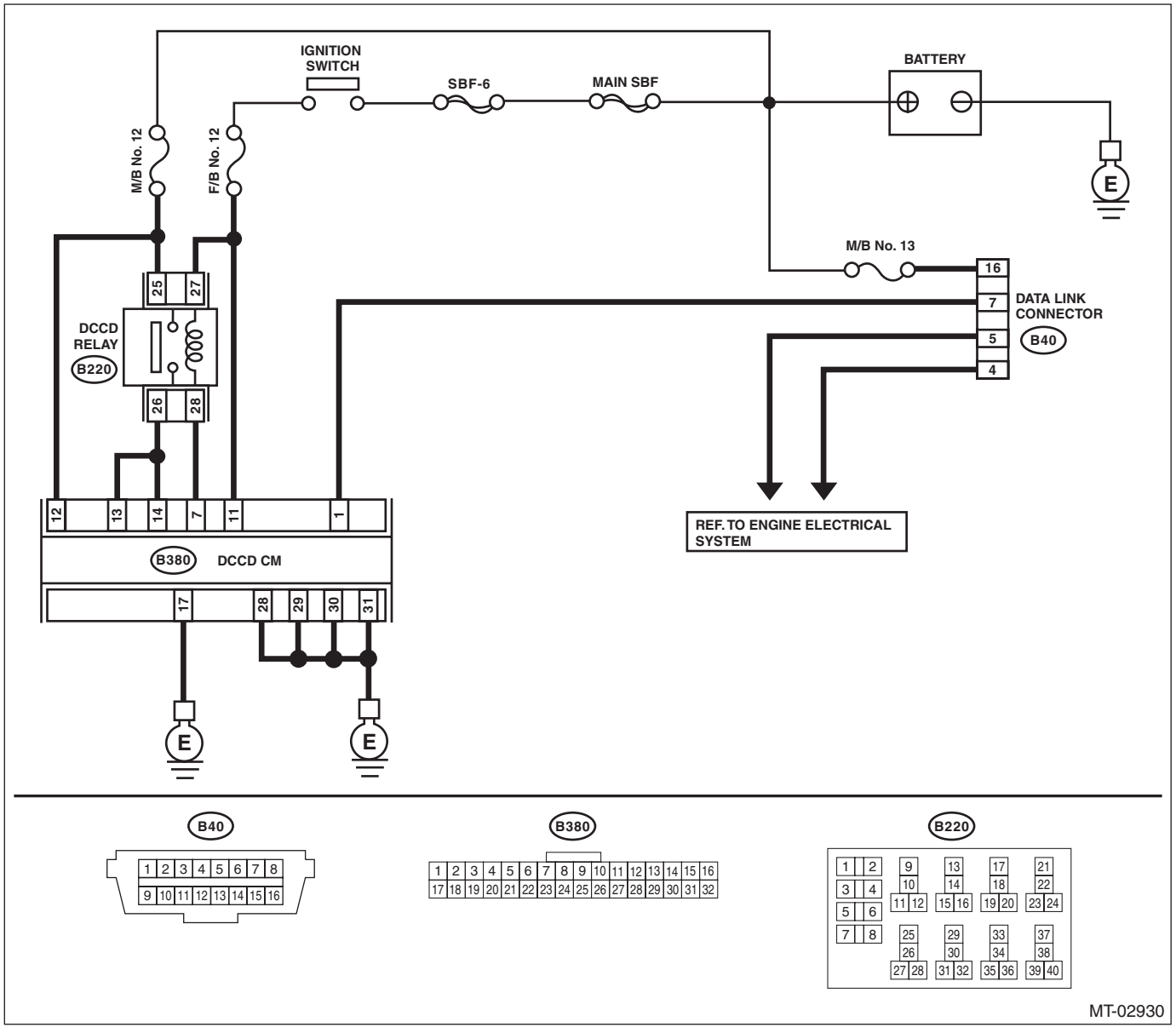
11.Diagnostic Procedure for Subaru Select Monitor Communication

A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

DIAGNOSIS:
Defective harness connector
TROUBLE SYMPTOM:
Subaru Select Monitor communication failure
WIRING DIAGRAM:
Drivers control center differential control system <Ref. to WI-72, Driver's Control Center Differential Control System.>



Step		Check	Yes	No
1	**CHECK INSTALLATION OF DCCD CONTROL MODULE.** Turn the ignition switch to OFF.	Is the DCCD control module connector connected to DCCD control module?	Go to step **2**.	Connect the DCCD control module connector to DCCD control module.

	Step	Check	Yes	No
2	**CHECK SUBARU SELECT MONITOR 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 harness connector between the battery and data link connector, and poor contact of the connector.
3	**CHECK SUBARU SELECT MONITOR GROUND CIRCUIT.** 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 1 Ω?	Go to step **4**.	Repair the open circuit of harness between data link connector and ground terminal, and poor contact of connector.
4	**CHECK COMMUNICATION OF SUBARU SELECT MONITOR.** 1) Turn the ignition switch to ON. 2) Check communication with the transmission system.	Is the name of system displayed on Subaru Select Monitor?	System is normal.	Go to step **5**.
5	**CHECK COMMUNICATION OF SUBARU SELECT MONITOR.** 1) Turn the ignition switch to OFF. 2) Disconnect the connector from DCCD control module. 3) Turn the ignition switch to ON. 4) Check communication with the engine system.	Is the name of system displayed on Subaru Select Monitor?	Go to step **7**.	Go to step **6**.
6	**CHECK COMMUNICATION OF SUBARU SELECT MONITOR.** 1) Turn the ignition switch to OFF. 2) Connect the DCCD control module connector. 3) Disconnect the connector from ECM. 4) Turn the ignition switch to ON. 5) Check communication with the transmission system.	Is the name of system displayed on Subaru Select Monitor?	Inspect the ECM.	Go to step **7**.
7	**CHECK HARNESS CONNECTOR BETWEEN EACH CONTROL MODULE AND DATA LINK CONNECTOR.** 1) Turn the ignition switch to OFF. 2) Disconnect the connectors from DCCD control module and ECM. 3) Measure the resistance between data link connector and chassis ground. ***Connector & terminal*** ***(B40) No. 7 — Chassis ground:***	Is the resistance 1 MΩ or more?	Go to step **8**.	Check harness and connector between each control module and data link connector.
8	**CHECK HARNESS CONNECTOR BETWEEN EACH CONTROL MODULE AND DATA LINK CONNECTOR.** 1) Disconnect the all modules that communicate with Subaru Select Monitor. 2) Turn the ignition switch to ON. 3) Measure the voltage between data link connector and chassis ground. ***Connector & terminal*** ***(B40) No. 7 (+) — Chassis ground (–):***	Is the voltage 1 V or more?	Check harness and connector between each control module and data link connector.	Go to step **9**.

	Step	Check	Yes	No
9	**CHECK HARNESS CONNECTOR BETWEEN DCCD CONTROL MODULE AND DATA LINK CONNECTOR.** Measure the resistance between DCCD control module connector and data link connector. ***Connector & terminal*** ***(B380) No. 1 — (B40) No. 7:***	Is the resistance less than 1 Ω?	Go to step **10**.	Check harness and connector between DCCD control module and data link connector.
10	**CHECK POOR CONTACT OF DCCD CONTROL MODULE CONNECTOR.**	Is there poor contact of connector?	Repair the poor contact.	Go to step **11**.
11	**CHECK POWER SUPPLY OF DCCD CONTROL MODULE.** 1) Disconnect the connector from DCCD control module. 2) Turn the ignition switch to ON. 3) Measure the voltage between DCCD control module connector and chassis ground. ***Connector & terminal*** ***(B380) No. 12 (+) — Chassis ground (–):*** ***(B380) No. 13 (+) — Chassis ground (–):*** ***(B380) No. 14 (+) — Chassis ground (–):***	Are the voltages 10 — 13 V?	Go to step **15**.	Go to step **12**.
12	**CHECK POWER SUPPLY CIRCUIT OF FUSE (M/B NO. 12).** 1) Turn the ignition switch to OFF. 2) Remove the fuse (M/B No. 12).	Is the fuse (M/B No. 12) blown out?	Replace the fuse (M/B No. 12). If the new fuse (M/B No. 12) has blown out easily, repair the short circuit of harness between fuse (M/B No. 12) and DCCD control module.	Go to step **13**.
13	**CHECK POWER SUPPLY CIRCUIT OF FUSE (F/B NO. 12).** Remove the fuse (F/B No. 12).	Is the fuse (F/B No. 12) blown out?	Replace the fuse (F/B No. 12). If the new fuse (F/B No. 12) has blown out easily, repair the short circuit of harness between fuse (F/B No. 12) and DCCD control module.	Go to step **14**.
14	**CHECK POWER SUPPLY CIRCUIT OF DCCD CONTROL MODULE.** Measure the resistance between the battery (+) terminal and fuse. ***Battery & terminal*** ***Battery (+) — M/B No. 12:*** ***Battery (+) — F/B No. 12:***	Is the resistance less than 1 Ω?	Repair the open circuit.	Go to step **15**.
15	**CHECK HARNESS CONNECTOR BETWEEN DCCD CONTROL MODULE AND CHASSIS GROUND.** 1) Turn the ignition switch to OFF. 2) Measure the resistance between DCCD control module and chassis ground. ***Connector & terminal*** ***(B380) No. 28 — Chassis ground:*** ***(B380) No. 29 — Chassis ground:*** ***(B380) No. 30 — Chassis ground:*** ***(B380) No. 31 — Chassis ground:***	Is the resistance less than 1 Ω?	Check the poor contact.	Repair the short circuit or poor contact of harness between DCCD control module and transmission connector.