

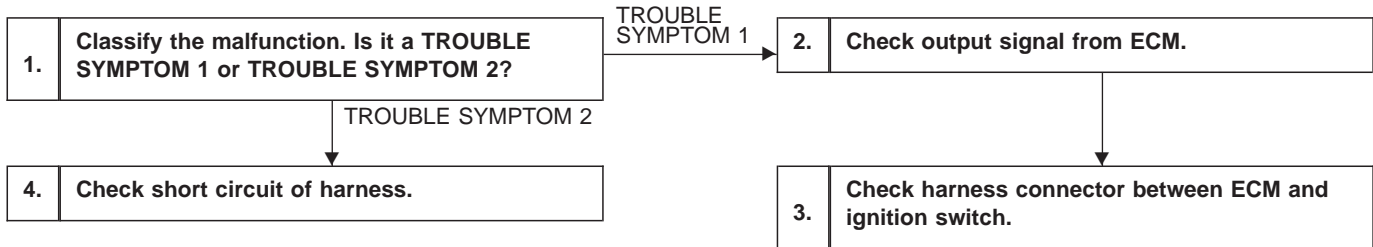
8. Diagnostics for CHECK ENGINE Malfunction Indicator Lamp (MIL)

DIAGNOSIS:

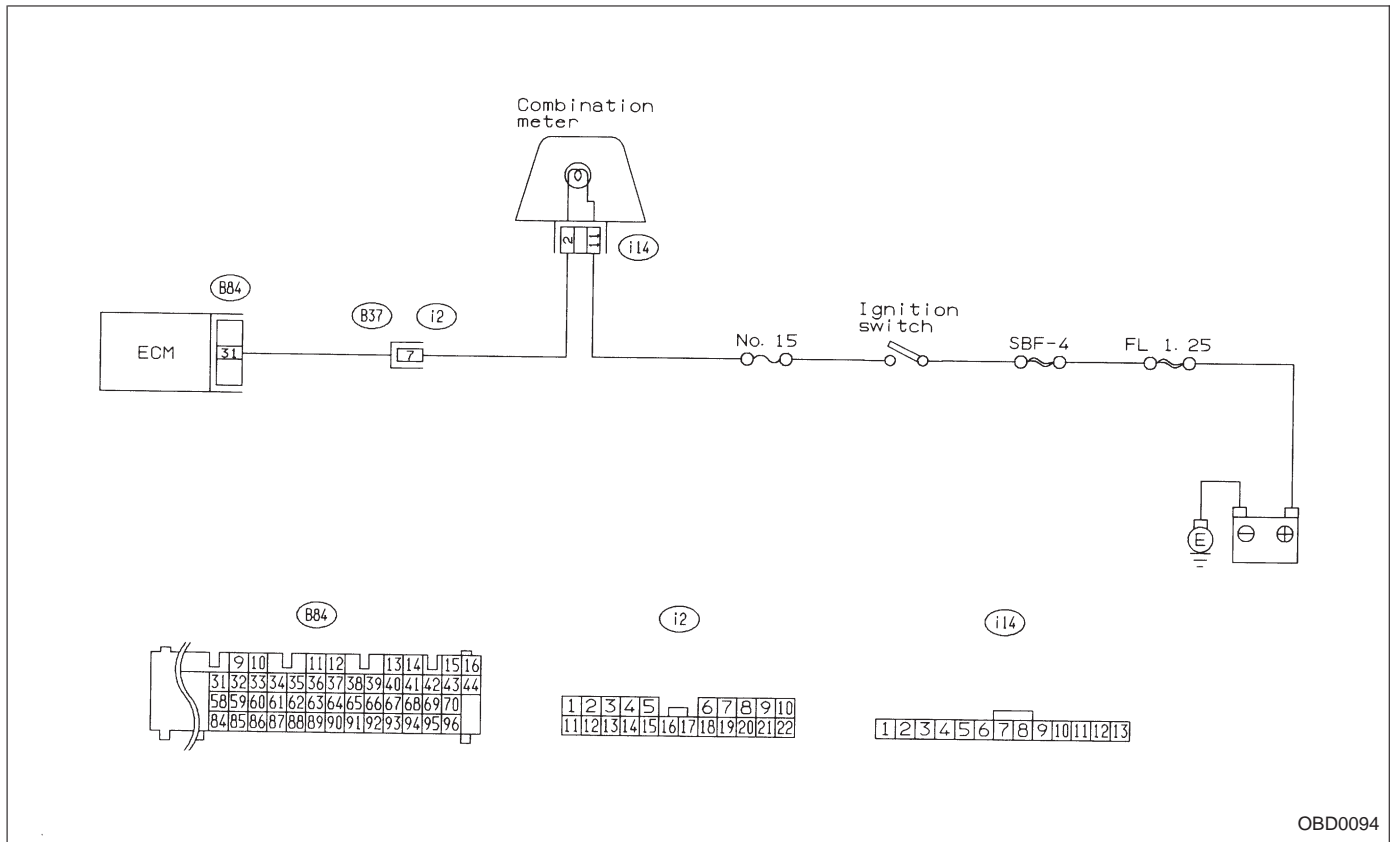
- The CHECK ENGINE malfunction indicator lamp (MIL) circuit is in short or open.

TROUBLE SYMPTOM:

- When ignition switch is turned to ON (engine OFF), MIL does not illuminate.....TROUBLE SYMPTOM 1
- Although MIL illuminates, trouble code is not shown on Subaru select monitor or the OBD-II general scan tool display.....TROUBLE SYMPTOM 2



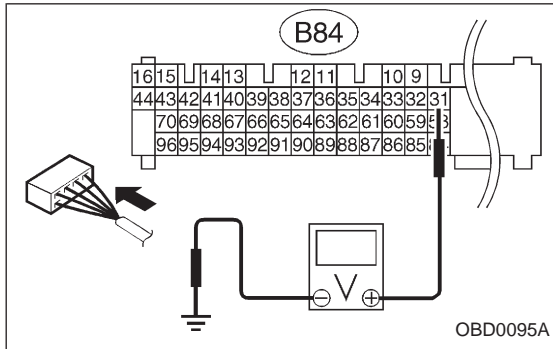
WIRING DIAGRAM:



OBD0094

1 CLASSIFY THE MALFUNCTION. IS IT A TROUBLE SYMPTOM 1 OR TROUBLE SYMPTOM 2?

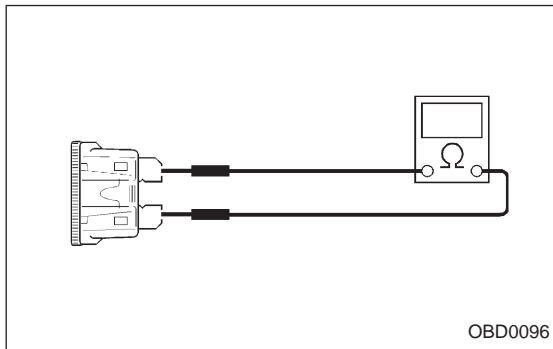
If the malfunction shows TROUBLE SYMPTOM 1, go to step 2.
 If the malfunction shows TROUBLE SYMPTOM 2, go to step 4.



2 CHECK OUTPUT SIGNAL FROM ECM.

- 1) Turn ignition switch to ON.
- 2) Measure voltage between ECM and body.

- CHECK** : **Connector & terminal (B84) No. 31 — Body/1 V, or less**
- YES** : Go to step 3.
- NO** : ● If MIL comes on when shaking or pulling ECM connector and harness, repair ECM connector.
 ● Check that ECM connector is correctly connected. If the MIL does not come on even when ECM connector is correctly connected, replace the ECM.



3 CHECK HARNESS CONNECTOR BETWEEN ECM AND IGNITION SWITCH.

- Check the following and repair if necessary.
- ① Check that fuse (No. 15) is not blown out.
- NOTE:**
 If replaced fuse (No. 15) blows out easily, check the harness for short circuit between fuse (No. 15) and combination meter.
- ② Check that harness from fuse to combination meter is not open.
 - ③ Check that the MIL wiring is not open.
 - ④ Check that harness from combination meter to the ECM is not open.
 - ⑤ Check that the connector (B37) is correctly connected as the wiring diagram shows.

4	CHECK SHORT CIRCUIT OF HARNESS.
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- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from ECM.
- 3) Turn ignition switch to ON.

CHECK : ***Does the MIL come on?***

YES : Repair short circuit of harness between ECM and combination meter.

NO : Replace ECM.