

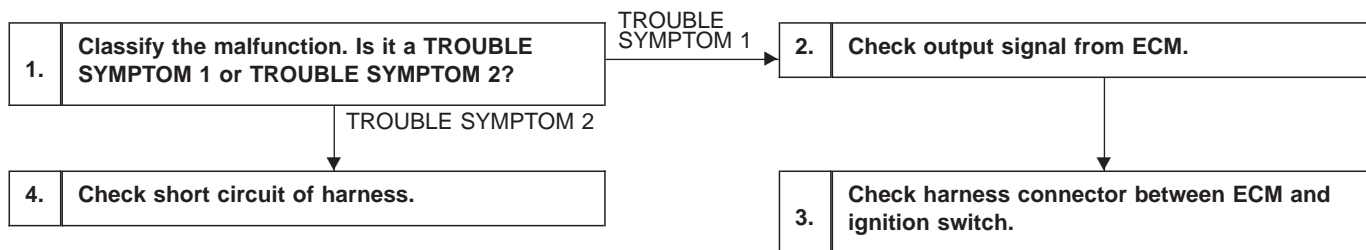
## 7. Diagnostics for CHECK ENGINE Malfunction Indicator Lamp (MIL)

### DIAGNOSIS:

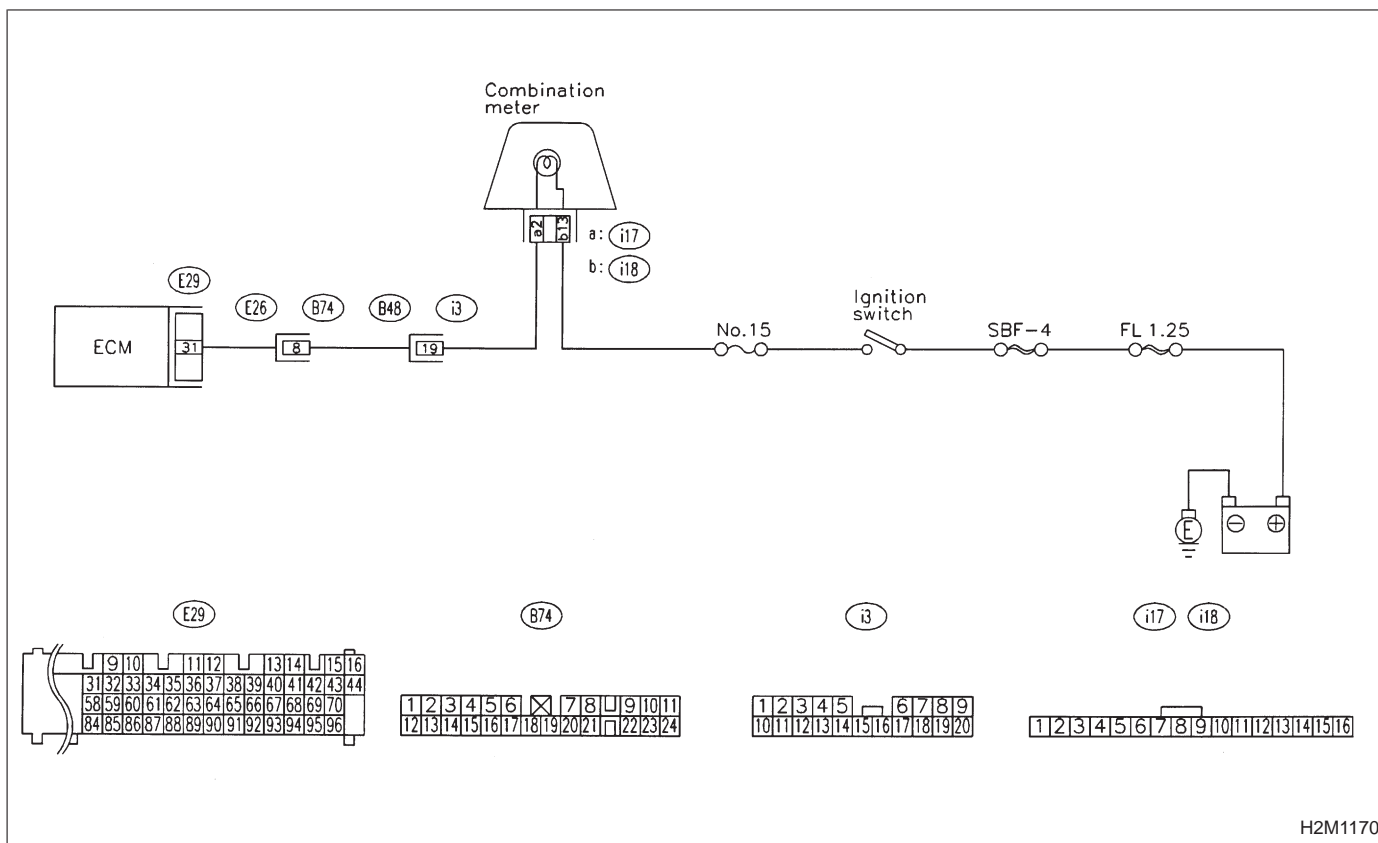
- The CHECK ENGINE malfunction indicator lamp (MIL) circuit is in short or open.

### 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:

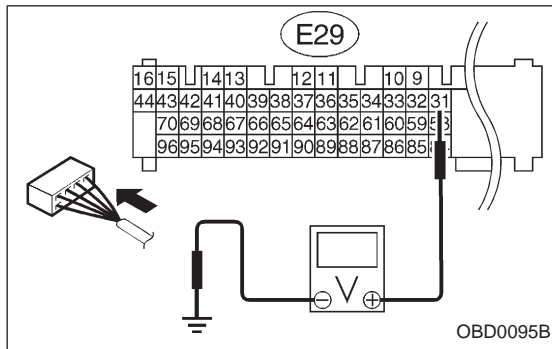


1

**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.**

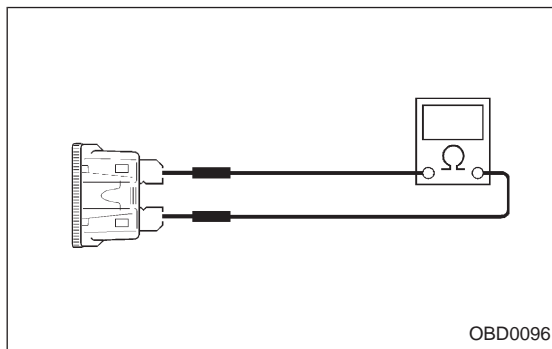
1) Turn ignition switch to ON.

2) Measure voltage between ECM and body.

**CHECK** : **Connector & terminal**  
(E29) 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 connectors (B48) and (B74) are correctly connected as the wiring diagram shows.

<b>4</b>	<b>CHECK SHORT CIRCUIT OF HARNESS.</b>
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- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from ECM.

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

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

**NO** : Replace ECM.