

15. Malfunction Indicator Light

A: PROCEDURE

1. Activation of malfunction indicator light. <Ref. to EN(H4DO)(diag)-61, ACTIVATION OF MALFUNCTION INDICATOR LIGHT, Malfunction Indicator Light.>



2. Malfunction indicator light does not come on. <Ref. to EN(H4DO)(diag)-62, MALFUNCTION INDICATOR LIGHT DOES NOT COME ON, Malfunction Indicator Light.>



3. Malfunction indicator light does not go off <Ref. to EN(H4DO)(diag)-64, MALFUNCTION INDICATOR LIGHT DOES NOT GO OFF, Malfunction Indicator Light.>

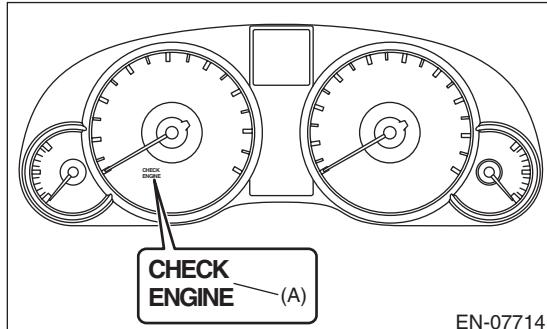
B: ACTIVATION OF MALFUNCTION INDICATOR LIGHT

1) When the ignition switch is turned to ON (engine OFF), the malfunction indicator light (A) in the combination meter illuminates.

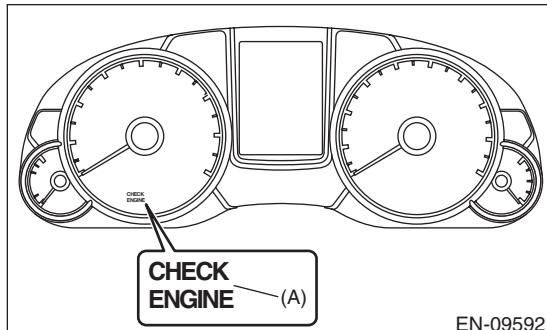
NOTE:

If the malfunction indicator light does not illuminate, perform diagnostics of the malfunction indicator light circuit or the combination meter circuit. <Ref. to EN(H4DO)(diag)-62, MALFUNCTION INDICATOR LIGHT DOES NOT COME ON, Malfunction Indicator Light.>

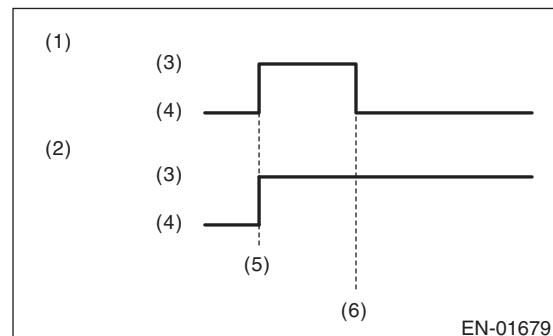
- Normal meter



- Luminescent meter

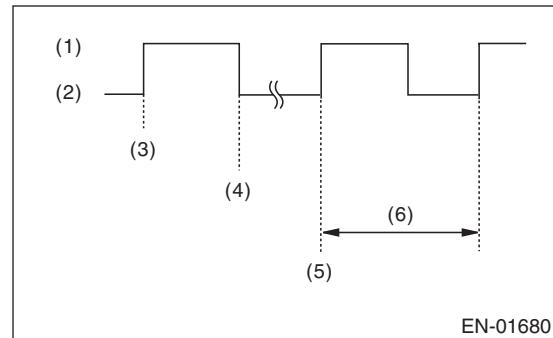


2) After starting the engine, the malfunction indicator light goes out. If it does not go off, any of the engine and emission control system has malfunction.



- (1) No faulty
- (2) Trouble occurs
- (3) ON
- (4) OFF
- (5) Ignition switch ON
- (6) Engine start

3) If the diagnostic system detects a misfire which could damage the catalyst, the malfunction indicator light will blink at a cycle of 1 Hz.



- (1) ON
- (2) OFF
- (3) Ignition switch ON
- (4) Engine start
- (5) Misfire start
- (6) 1 second

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ENGINE (DIAGNOSTICS)

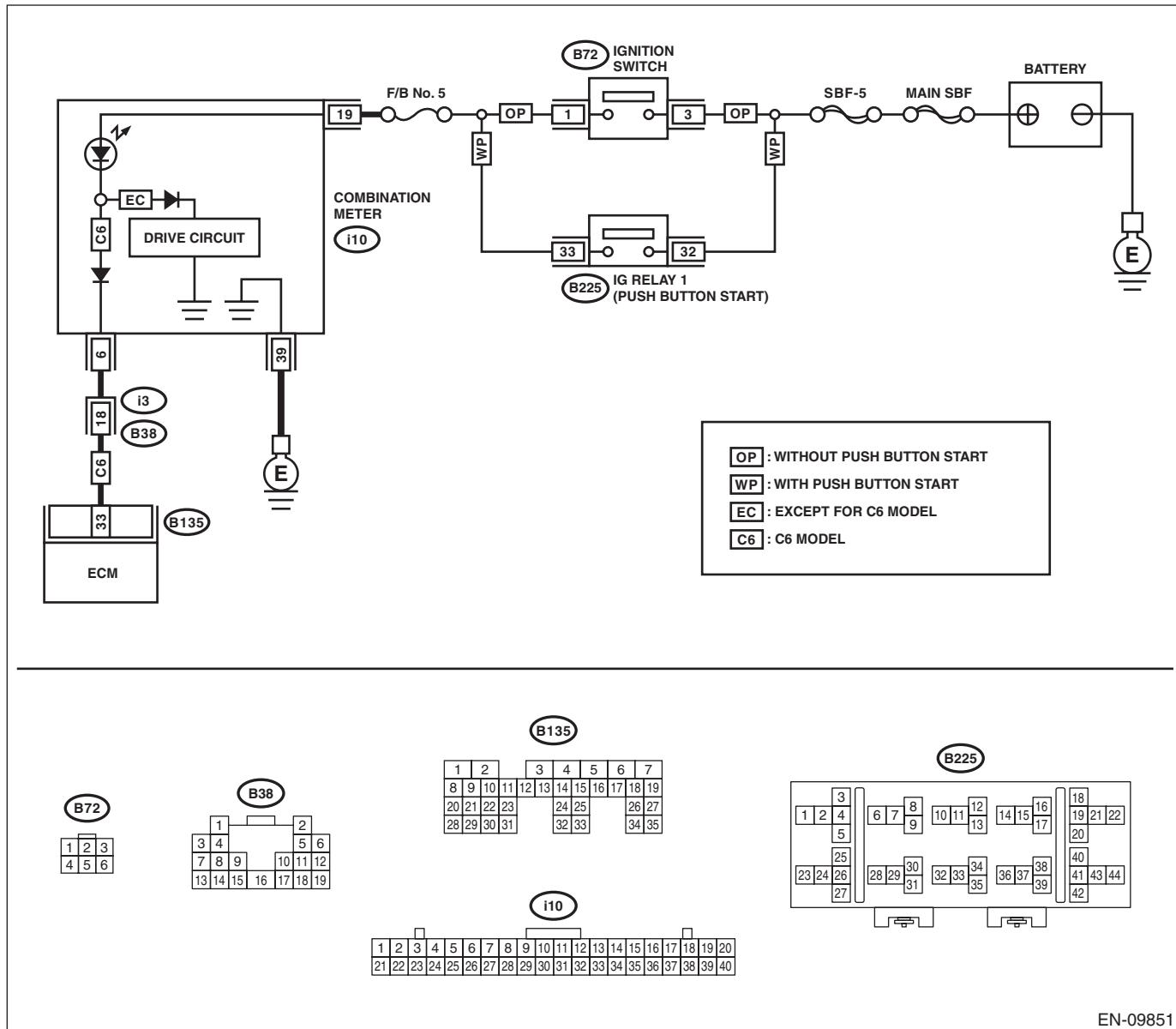
C: MALFUNCTION INDICATOR LIGHT DOES NOT COME ON

TROUBLE SYMPTOM:

When the ignition switch is turned to ON (engine OFF), malfunction indicator light does not illuminate.

WIRING DIAGRAM:

- Engine electrical system, 2.5 L model (without push button start) <Ref. to WI-122, 2.5 L MODEL (WITHOUT PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>
- Engine electrical system, 2.5 L model (with push button start) <Ref. to WI-136, 2.5 L MODEL (WITH PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>



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ENGINE (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK VEHICLE SPECIFICATION.	Is the vehicle except for C6 model?	Go to step 2.	Go to step 3.
2 CHECK DTC.	Is DTC of LAN system displayed? <Ref. to LAN(diag)-9, OPERATION, Read Diagnostic Trouble Code (DTC).>	Check the appropriate DTC using the "List of Diagnostic Trouble Code (DTC)". <Ref. to LAN(diag)-59, List of Diagnostic Trouble Code (DTC).>	Replace the meter case assembly of combination meter. <Ref. to IDI-26, Combination Meter.>
3 CHECK OUTPUT SIGNAL OF ECM. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from ECM. 3) Turn the ignition switch to ON. 4) Measure the voltage between ECM connector and chassis ground. <i>Connector & terminal (B135) No. 33 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 7.	Go to step 4.
4 CHECK HARNESS BETWEEN COMBINATION METER AND IGNITION SWITCH CONNECTOR. 1) Turn the ignition switch to OFF. 2) Remove the combination meter. <Ref. to IDI-26, Combination Meter.> 3) Turn the ignition switch to ON. 4) Measure the voltage between combination meter connector and chassis ground. <i>Connector & terminal (i10) No. 19 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 5.	Check the following item and repair if necessary. NOTE: <ul style="list-style-type: none">• Blown out of fuse• Open circuit or short circuit to ground in harness of power supply circuit
5 CHECK HARNESS BETWEEN ECM AND COMBINATION METER CONNECTOR. Measure the resistance of harness between ECM and combination meter connector. <i>Connector & terminal (B135) No. 33 — (i10) No. 6:</i>	Is the resistance less than 1 Ω?	Go to step 6.	Repair the harness and connector. NOTE: In this case, repair the following item: <ul style="list-style-type: none">• Open circuit in harness between ECM and combination meter connector• Poor contact of coupling connector
6 CHECK FOR POOR CONTACT. Check for poor contact of combination meter connector.	Is there poor contact of combination meter connector?	Repair the poor contact of combination meter connector.	Replace the meter case assembly of combination meter. <Ref. to IDI-26, Combination Meter.>
7 CHECK ECM CONNECTOR. Check the connection of ECM connector.	Is the ECM connector correctly connected?	Go to step 8.	Connect the ECM connector correctly.
8 CHECK FOR POOR CONTACT. Check for poor connection by shaking or pulling ECM connector and harness.	Does the malfunction indicator light illuminate?	Repair the poor contact of ECM connector.	Replace the ECM. <Ref. to FU(H4DO)-99, Engine Control Module (ECM).>

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ENGINE (DIAGNOSTICS)

D: MALFUNCTION INDICATOR LIGHT DOES NOT GO OFF

DIAGNOSIS:

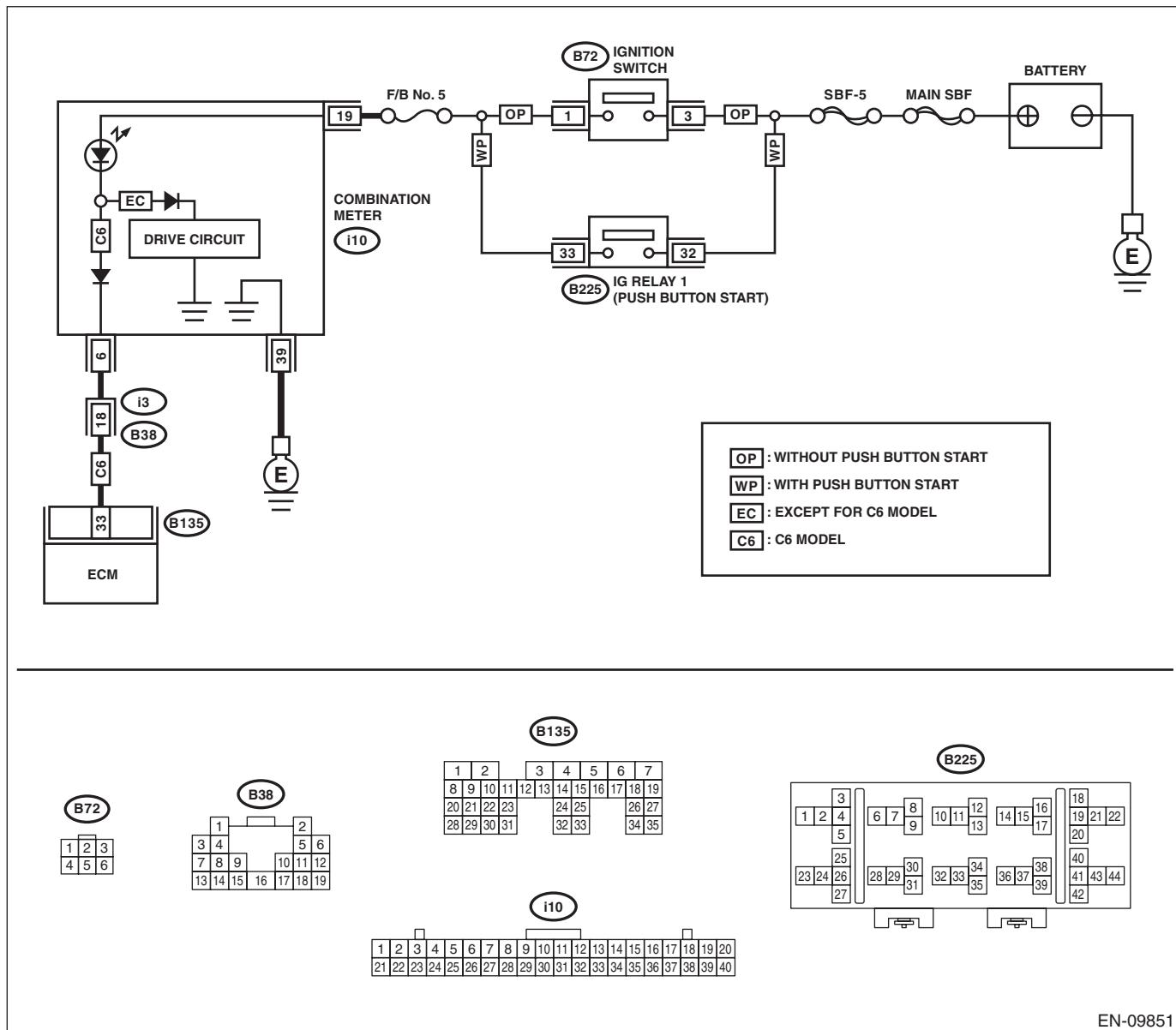
DIAGNOSIS: The malfunction indicator light circuit is shorted.

TROUBLE SYMPTOM:

Although malfunction indicator light comes on when the engine runs, DTC is not shown on the Subaru Select Monitor or general scan tool display.

WIRING DIAGRAM:

- Engine electrical system, 2.5 L model (without push button start) <Ref. to WI-122, 2.5 L MODEL (WITHOUT PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>
- Engine electrical system, 2.5 L model (with push button start) <Ref. to WI-136, 2.5 L MODEL (WITH PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>



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ENGINE (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK DTC.	Is DTC of engine or LAN system displayed? <Ref. to EN(H4DO)(diag)-45, OPERATION, Read Diagnostic Trouble Code (DTC).>	Check the appropriate DTC using the "List of Diagnostic Trouble Code (DTC)". <Ref. to EN(H4DO)(diag)-87, List of Diagnostic Trouble Code (DTC).> <Ref. to LAN(diag)-59, List of Diagnostic Trouble Code (DTC).>	Go to step 2.
2 CHECK VEHICLE SPECIFICATION.	Is the vehicle except for C6 model?	Go to step 3.	Go to step 4.
3 CHECK COMBINATION METER. Perform the self-diagnosis for combination meter system. <Ref. to IDI-8, SELF-DIAGNOSIS DISPLAY MODE, OPERATION, Combination Meter System.>	Does the malfunction indicator light illuminate and go off normally?	Replace the ECM. <Ref. to FU(H4DO)-99, Engine Control Module (ECM).>	Replace the meter case assembly of combination meter. <Ref. to IDI-26, Combination Meter.>
4 CHECK HARNESS BETWEEN ECM AND COMBINATION METER CONNECTOR. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from ECM. 3) Turn the ignition switch to ON.	Does the malfunction indicator light illuminate?	Go to step 5.	Replace the ECM. <Ref. to FU(H4DO)-99, Engine Control Module (ECM).>
5 CHECK HARNESS BETWEEN ECM AND COMBINATION METER CONNECTOR. 1) Turn the ignition switch to OFF. 2) Remove the combination meter. <Ref. to IDI-26, Combination Meter.> 3) Measure the resistance between ECM and chassis ground. <i>Connector & terminal (B135) No. 33 — Chassis ground:</i>	Is the resistance 1 MΩ or more?	Replace the meter case assembly of combination meter. <Ref. to IDI-26, Combination Meter.>	Repair the ground short circuit of harness between ECM and combination meter connector.