15.Malfunction Indicator Light

A: PROCEDURE

1. Activation of malfunction indicator light. <Ref. to EN(H6DO)(diag)-66, ACTIVATION OF MALFUNCTION INDICATOR LIGHT, Malfunction Indicator Light.>

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2. Malfunction indicator light does not come on. <Ref. to EN(H6DO)(diag)-68, MALFUNCTION INDICATOR LIGHT DOES NOT COME ON, Malfunction Indicator Light.>

3. Malfunction indicator light does not go off. <Ref. to EN(H6DO)(diag)-69, MALFUNCTION INDICATOR LIGHT DOES NOT GO OFF, Malfunction Indicator Light.>

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4. Malfunction indicator light does not blink. <Ref. to EN(H6DO)(diag)-71, MALFUNCTION INDICATOR LIGHT DOES NOT BLINK, Malfunction Indicator Light.>

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5. Malfunction indicator light remains blinking. <Ref. to EN(H6DO)(diag)-73, MALFUNCTION INDICATOR LIGHT REMAINS BLINKING, Malfunction Indicator Light.>

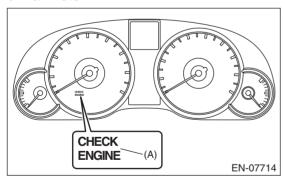
B: ACTIVATION OF MALFUNCTION INDICATOR LIGHT

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

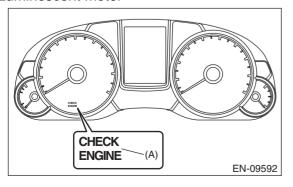
NOTE:

If the malfunction indicator light does not illuminate, perform diagnostics of the malfunction indicator light circuit or the combination meter circuit. <Ref. to EN(H6DO)(diag)-68, MALFUNCTION INDICATOR LIGHT DOES NOT COME ON, Malfunction Indicator Light.>

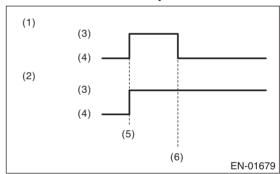
Normal meter



· Luminescent meter

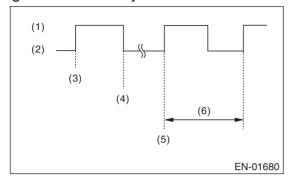


2) After starting the engine, the malfunction indicator light goes out. If it does not go off, any of the engine and emission control system has malfunction.



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

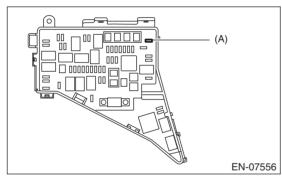
3) If the diagnostic system detects a misfire which could damage the catalyst, the malfunction indicator light will blink at a cycle of 1 Hz.



- (1) ON
- (2) OFF
- (3) Ignition switch ON
- (4) Engine start
- (5) Misfire start
- (6) 1 second
- 4) Install the delivery (test) mode fuse (A) with ignition switch to OFF.

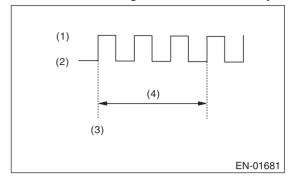
CAUTION:

Do not use any fuses that are installed on the vehicle.



- (1) When the ignition switch is turned to ON (engine OFF), the malfunction indicator light illuminates.
- (2) After the engine starts, malfunction indicator light blinks in a cycle of 0.5 Hz. (During diagnosis)

(3) Malfunction indicator light blinks at a cycle of 3 Hz after diagnosis if there is no trouble. Malfunction indicator light illuminates if faulty.



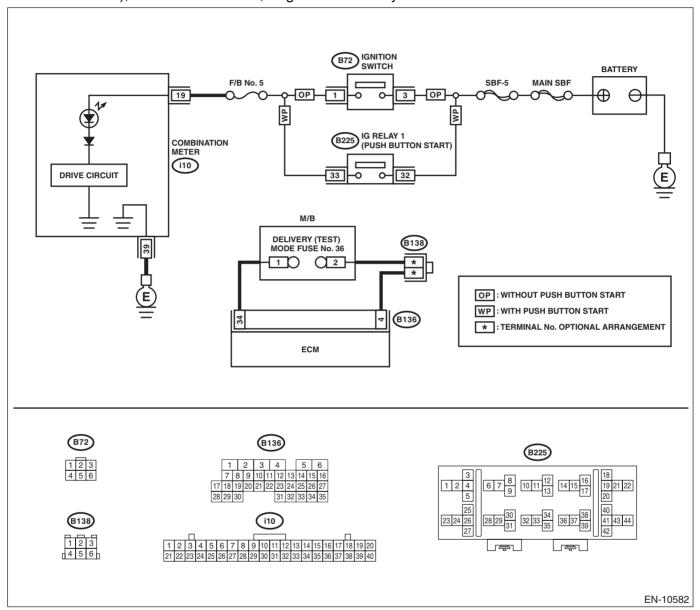
- (1) ON
- (2) OFF
- (3) Ignition switch ON
- (4) 1 second

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, 3.6 L model (without push button start)<Ref. to WI-150, 3.6 L MODEL (WITH-OUT PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>
- Engine electrical system, 3.6 L model (with push button start)<Ref. to WI-166, 3.6 L MODEL (WITH PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>



Step	Check	Yes	No
		Check the appro-	Replace the meter
	played? <ref. lan(diag)-9,<="" th="" to=""><th>priate DTC using</th><th>case assembly of</th></ref.>	priate DTC using	case assembly of
	OPERATION, Read Diagnostic	the "List of Diag-	combination meter.
	Trouble Code (DTC).>	nostic Trouble	<ref. idi-25,<="" th="" to=""></ref.>
		Code (DTC)".	Combination
		<ref. th="" to<=""><th>Meter.></th></ref.>	Meter.>
		LAN(diag)-54, List	
		of Diagnostic Trou-	
		ble Code (DTC).>	

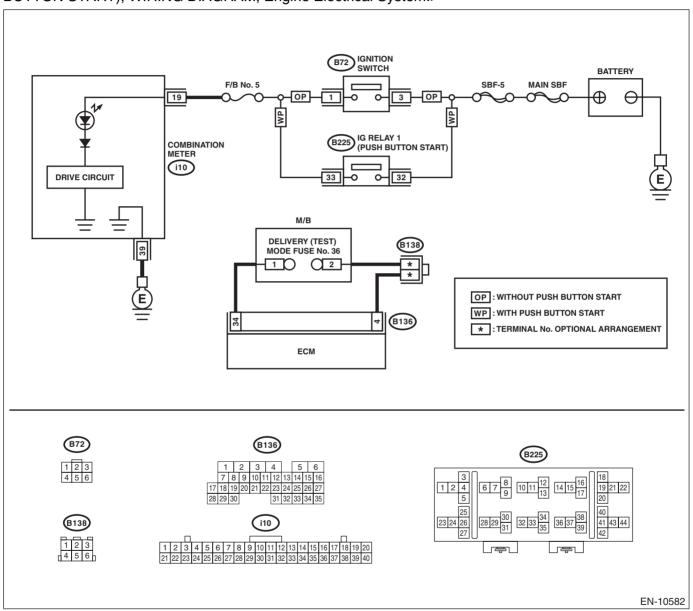
D: MALFUNCTION INDICATOR LIGHT DOES NOT GO OFF

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, 3.6 L model (without push button start)<Ref. to WI-150, 3.6 L MODEL (WITH-OUT PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>
- Engine electrical system, 3.6 L model (with push button start)<Ref. to WI-166, 3.6 L MODEL (WITH PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>



	Step	Check	Yes	No
1	CHECK DTC.	Is DTC of engine or LAN system displayed? <ref. (dtc).="" code="" diagnostic="" en(h6do)(diag)-48,="" operation,="" read="" to="" trouble=""></ref.>	Check the appropriate DTC using the "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" code="" diagnostic="" en(h6do)(diag)-97,="" list="" of="" to="" trouble=""> <ref. (dtc).="" code="" diagnostic="" lan(diag)-54,="" list="" of="" to="" trouble=""></ref.></ref.>	Go to step 2.
2	CHECK COMBINATION METER. Perform the self-diagnosis for combination meter system. <ref. combination="" display="" idi-8,="" meter="" mode,="" operation,="" self-diagno-sis="" system.="" to=""></ref.>	Does the malfunction indicator light illuminate and go off normally?	Replace the ECM. <ref. to<br="">FU(H6DO)-54, Engine Control Module (ECM).></ref.>	Replace the meter case assembly of combination meter. <ref. idi-25,<br="" to="">Combination Meter.></ref.>

E: MALFUNCTION INDICATOR LIGHT DOES NOT BLINK

DIAGNOSIS:

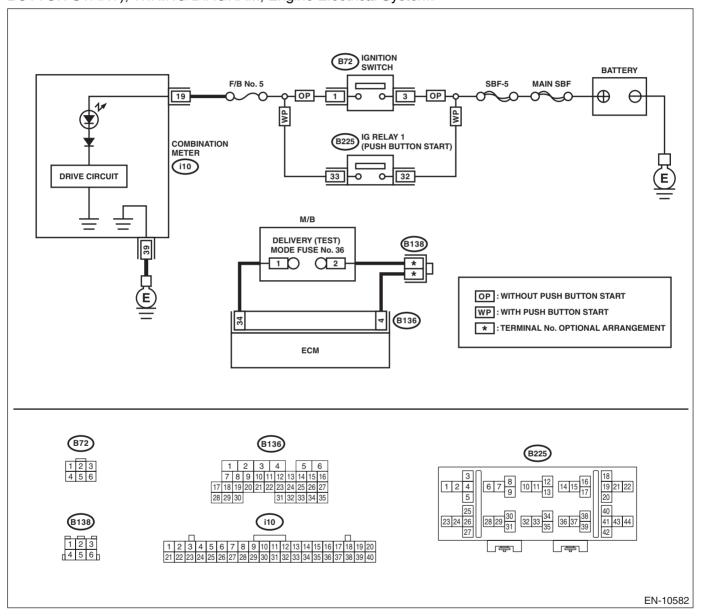
- The malfunction indicator light circuit is open or shorted.
- The delivery (test) mode fuse circuit is open.

TROUBLE SYMPTOM:

Malfunction indicator light does not blink during Inspection Mode.

WIRING DIAGRAM:

- Engine electrical system, 3.6 L model (without push button start)<Ref. to WI-150, 3.6 L MODEL (WITH-OUT PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>
- Engine electrical system, 3.6 L model (with push button start)<Ref. to WI-166, 3.6 L MODEL (WITH PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>



	Step	Check	Yes	No
1	CHECK STATUS OF MALFUNCTION INDI- CATOR LIGHT. 1) Turn the ignition switch to OFF. 2) Check the delivery (test) mode fuse is removed. 3) Turn the ignition switch to ON. (engine OFF)	Does the malfunction indicator light illuminate?	Go to step 2.	Repair the mal- function indicator light circuit. <ref. to EN(H6DO)(diag)- 68, MALFUNC- TION INDICATOR LIGHT DOES NOT COME ON, Mal- function Indicator Light.></ref.
2	CHECK HARNESS BETWEEN ECM AND DE-LIVERY (TEST) MODE FUSE. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from ECM. 3) Install the delivery (test) mode fuse. CAUTION: Do not use any fuses that are installed on the vehicle. 4) Measure the resistance of harness between ECM connectors. Connector & terminal (B136) No. 34 — (B136) No. 4:		Go to step 3.	Repair the harness and connector. NOTE: In this case, repair the following item: Open circuit of harness between ECM connector and delivery (test) mode fuse Poor contact of joint connector
3	CHECK FOR POOR CONTACT. Check for poor contact of ECM connector.	Is there poor contact of ECM connector?	Repair the poor contact of ECM connector.	Replace the ECM. <ref. to<br="">FU(H6DO)-54, Engine Control Module (ECM).></ref.>

F: MALFUNCTION INDICATOR LIGHT REMAINS BLINKING

DIAGNOSIS:

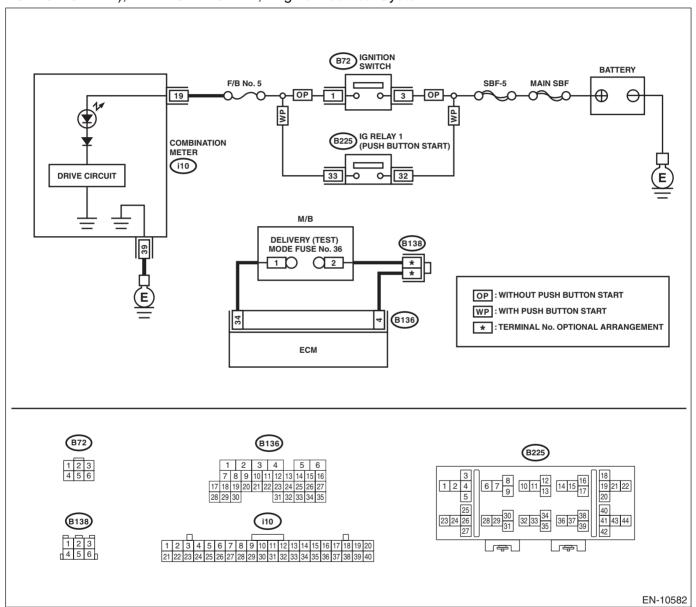
The delivery (test) mode fuse circuit is short-circuited to ground.

TROUBLE SYMPTOM:

Malfunction indicator light blinks when delivery (test) mode fuse is not connected.

WIRING DIAGRAM:

- Engine electrical system, 3.6 L model (without push button start)<Ref. to WI-150, 3.6 L MODEL (WITH-OUT PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>
- Engine electrical system, 3.6 L model (with push button start)<Ref. to WI-166, 3.6 L MODEL (WITH PUSH BUTTON START), WIRING DIAGRAM, Engine Electrical System.>



Malfunction Indicator Light

ENGINE (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DELIVERY (TEST) MODE FUSE. 1) Check the delivery (test) mode fuse is removed. 2) Turn the ignition switch to ON.	Does the malfunction indicator light blink?	Go to step 2.	System is normal. NOTE: Malfunction indicator light blinks at a cycle of 3 Hz when delivery (test) mode fuse is attached.
2	CHECK HARNESS BETWEEN ECM AND DE- LIVERY (TEST) MODE FUSE. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from ECM. 3) Measure the resistance between ECM connector and chassis ground. Connector & terminal (B136) No. 34 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Replace the ECM. <ref. to<br="">FU(H6DO)-54, Engine Control Module (ECM).></ref.>	Repair the short circuit to ground in the harness between the ECM connector and delivery (test) mode fuse.