

## MIL Circuit

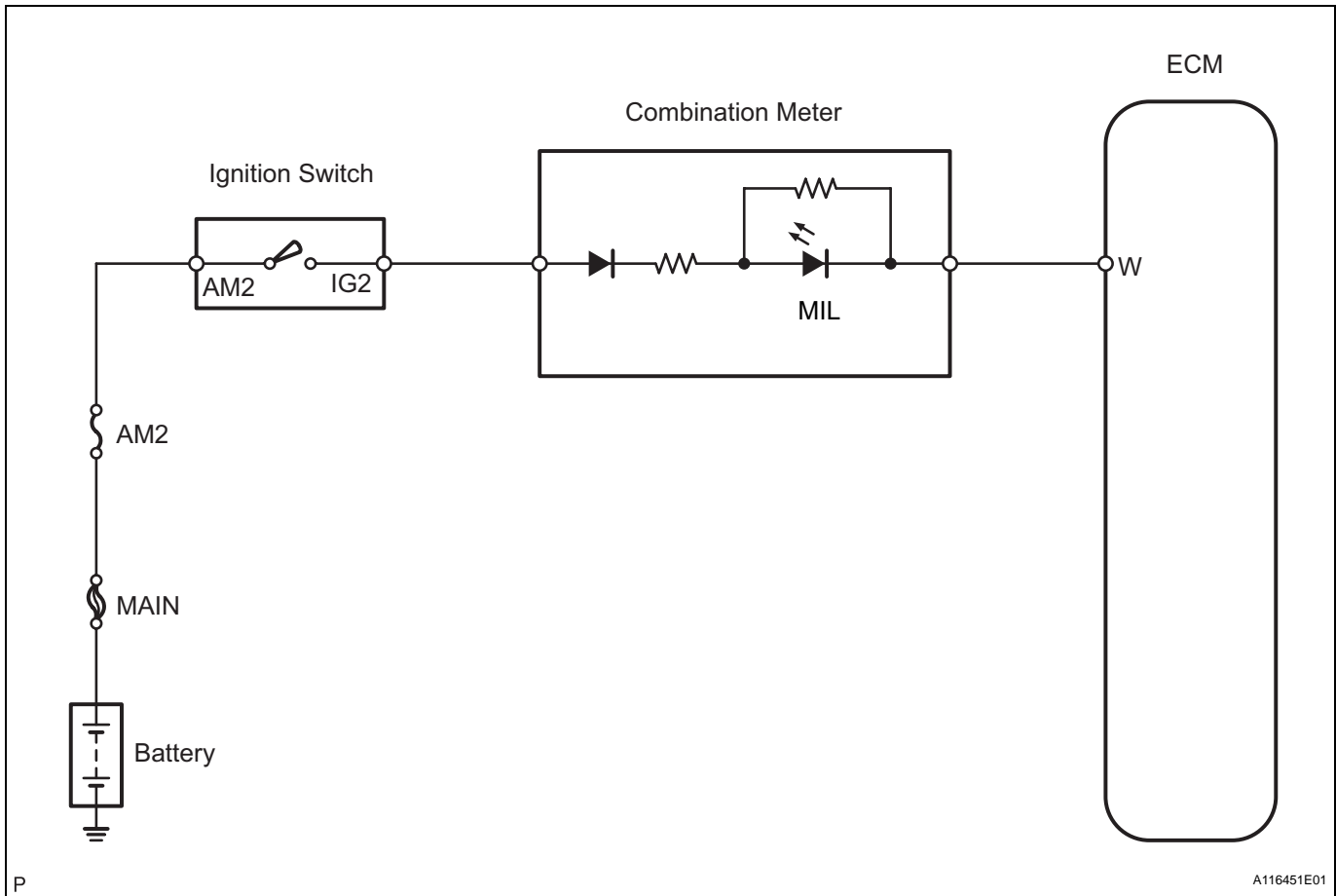
### DESCRIPTION

The MIL (Malfunction Indicator Lamp) is used to indicate vehicle malfunction detections by the ECM. By turning the ignition switch ON, power is supplied to the MIL circuit, and the ECM provides the circuit ground which illuminates the MIL.

The MIL operation can be checked visually: When the ignition switch is first turned ON, the MIL should be illuminated and should then turn OFF. If the MIL remains illuminated or is not illuminated, conduct the following troubleshooting procedure using the intelligent tester.

### WIRING DIAGRAM

ES



### 1 CHECK THAT MIL IS ILLUMINATED

- (a) Perform troubleshooting in accordance with the chart below.

**Result**

Condition	Proceed to
MIL remains ON	A
MIL does not illuminate	B

B

Go to step 5

A

**2 CHECK WHETHER MIL TURNS OFF**

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch ON and turn the tester ON.
- (c) Check whether any DTCs have been stored (see page [ES-48](#)). Write them down if necessary.
- (d) Clear DTCs (see page [ES-37](#)).
- (e) Check if the MIL turns off.

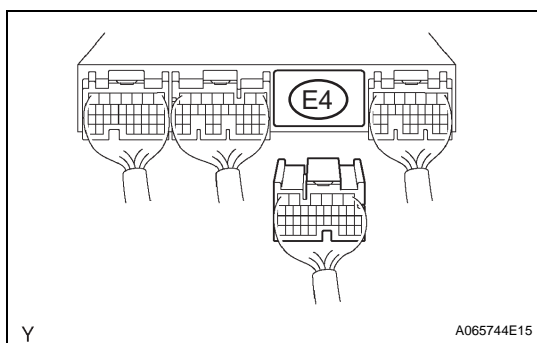
**OK:****MIL should turn off.**

OK

**REPAIR CIRCUIT INDICATED BY OUTPUT DTC**

ES

NG

**3 CHECK HARNESS AND CONNECTOR (CHECK FOR SHORT IN WIRE HARNESS)**

- (a) Disconnect the E4 ECM connector.
- (b) Turn the ignition switch ON.
- (c) Check that the MIL is not illuminated.

**OK:****MIL is not illuminated.**

OK

**REPLACE ECM**

NG

**4 CHECK HARNESS AND CONNECTOR (COMBINATION METER - ECM)**

- (a) Check the harness and connector (see page [IN-30](#)).

OK

**REPAIR OR REPLACE COMBINATION METER**

NG

**REPAIR OR REPLACE HARNESS OR CONNECTOR****5 CHECK THAT MIL IS ILLUMINATED**

- (a) Check if the MIL is illuminated when the ignition switch is turned ON.

**Standard:****MIL should be illuminated.**

OK → SYSTEM OK

NG

**6 CHECK THAT ENGINE STARTS**

- (a) Turn the ignition switch ON.
- (b) Start the engine.

**Result**

Condition	Proceed to
Engine starts	A
Engine does not start*	B

ES

HINT:

\*: The intelligent tester cannot communicate with the ECM.

B → GO TO VC OUTPUT CIRCUIT

A

**7 INSPECT COMBINATION METER ASSEMBLY (MIL CIRCUIT)**

- (a) See the combination meter troubleshooting procedure (see page [ME-6](#)).

NG → REPAIR OR REPLACE COMBINATION METER

OK

**CHECK AND REPLACE HARNESS OR CONNECTOR (COMBINATION METER - ECM)**