

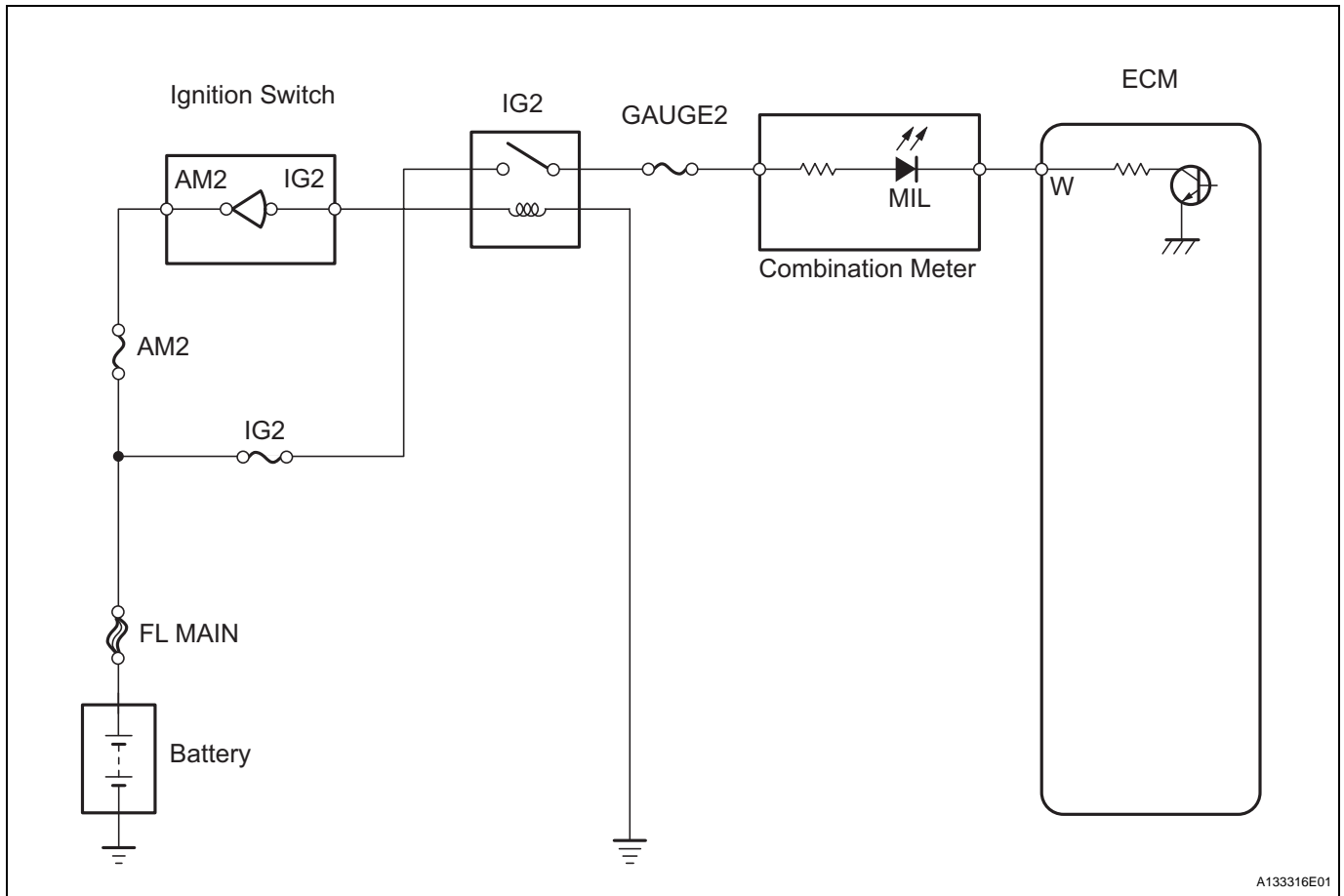
## MIL Circuit

### DESCRIPTION

The MIL (Malfunction Indicator Lamp) is used to indicate vehicle malfunction detections by the ECM. When the ignition switch is turned 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



A133316E01

### INSPECTION PROCEDURE

#### 1 CHECK THAT MIL IS ILLUMINATED

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

Conditions	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) Select the following menu items: DIAGNOSIS / ENHANCED OBD II / DTC INFO / CURRENT CODES.
- (d) Check if any DTCs have been stored. Note down any DTCs.
- (e) Clear DTCs (see page [ES-35](#)).
- (f) Check if the MIL goes off.

**Standard:****MIL should go off.**

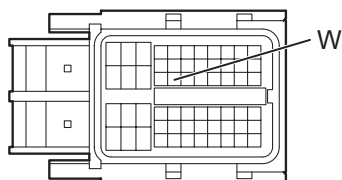
OK

**REPAIR CIRCUITS INDICATED BY OUTPUT DTCs**

NG

**3 CHECK HARNESS AND CONNECTOR (CHECK FOR SHORT IN WIRE HARNESS)****Wire Harness Side:**

A9 ECM Connector



Front View

A115671E12

- (a) Disconnect the A9 ECM connector.
- (b) Turn the ignition switch ON.
- (c) Check that the MIL is not illuminated.

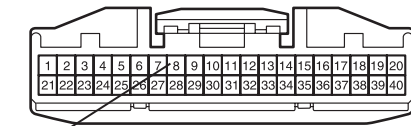
**OK:****MIL is not illuminated.**

- (d) Reconnect the ECM connector.

OK

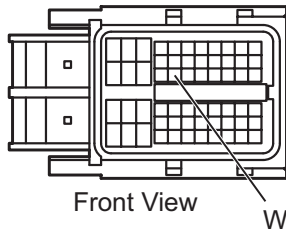
**REPLACE ECM**

NG

**4 CHECK HARNESS AND CONNECTOR (COMBINATION METER - ECM)****Wire Harness Side:****E19** Combination Meter Connector

EFI

Front View

**A9** ECM Connector

Front View

A127855E04

- (a) Disconnect the A9 ECM connector.
- (b) Disconnect the E19 combination meter connector.
- (c) Measure the resistance.

**Standard resistance (Check for short)**

Tester Connections	Specified Conditions
A9-24 (W) or E19-8 (combination meter) - Body ground	10 kΩ or higher

- (d) Reconnect the ECM connector.
- (e) Reconnect the combination meter connector.

**OK****REPAIR OR REPLACE COMBINATION METER ASSEMBLY****ES****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.

**OK:****MIL should be illuminated.****OK****SYSTEM OK****NG****6 CHECK THAT ENGINE STARTS**

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

Result	Proceed To
Engine starts	A
Engine does not start*	B

**HINT:**

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

**GO TO VC OUTPUT CIRCUIT**

7

(a) Check the MIL circuit (see page [ME-15](#)).

## REPAIR OR REPLACE COMBINATION METER ASSEMBLY

ES

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