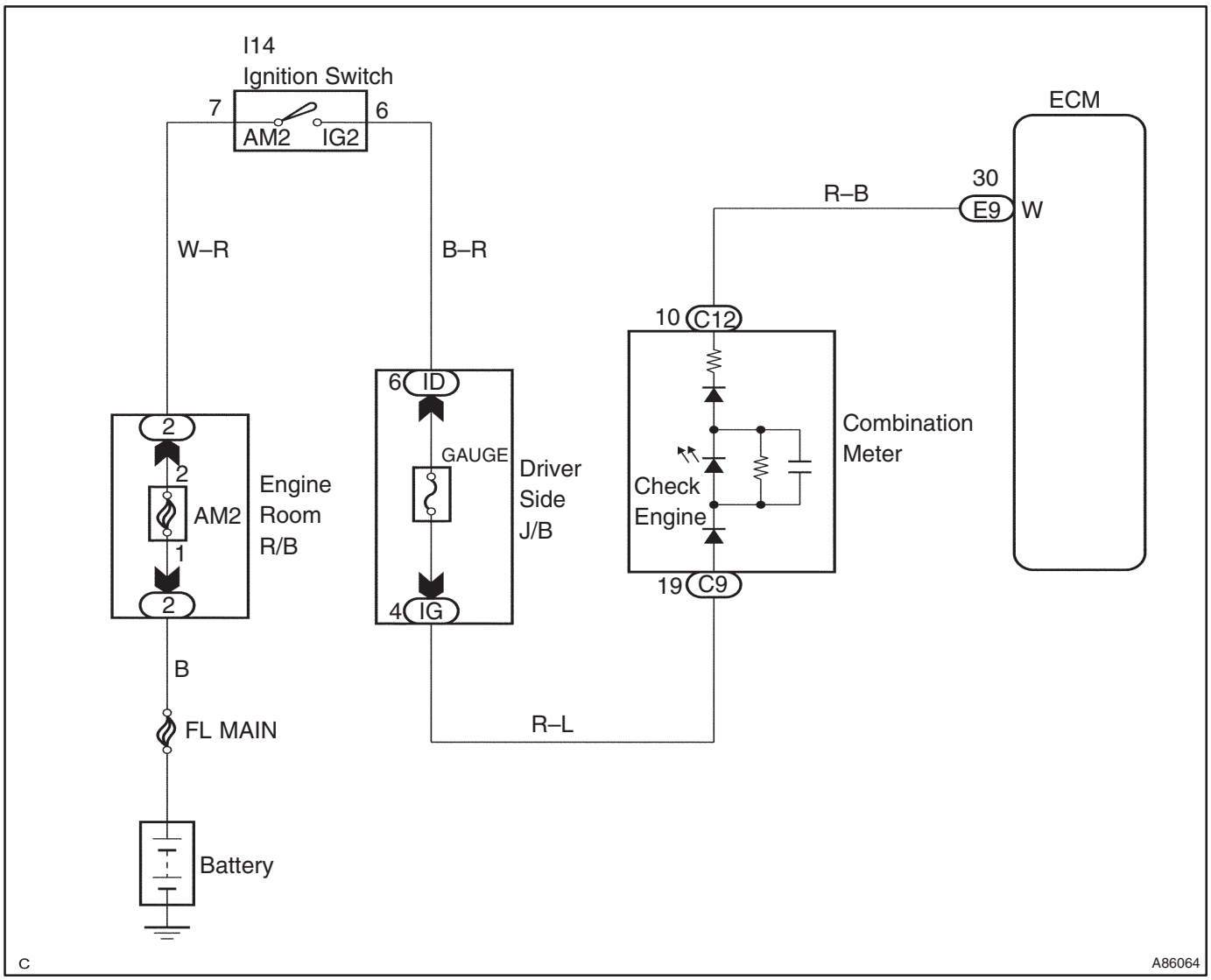
# MIL CIRCUIT

## CIRCUIT DESCRIPTION

The MIL (Malfunction Indicator Lamp) is used to indicate vehicle malfunction detections by the ECM.
By turning the ignition switch to ON, the power is supplied to the MIL circuit, and the ECM provides the circuit ground that illuminates the MIL.
Operation of the MIL should be checked visually.
When the ignition switch is first turned to ON, the MIL should be illuminated. If it is always OFF or ON, use the intelligent tester II and follow the procedure below to determine cause of the problem.

## WIRING DIAGRAM




## INSPECTION PROCEDURE

HINT:
Troubleshoot each trouble symptom in accordance with the table below.

**Reference:**

| Result | Proceed To |
|---|---|
| MIL remains on | Start inspection from step 1 |
| MIL is not illuminated | Start inspection from step 3 |

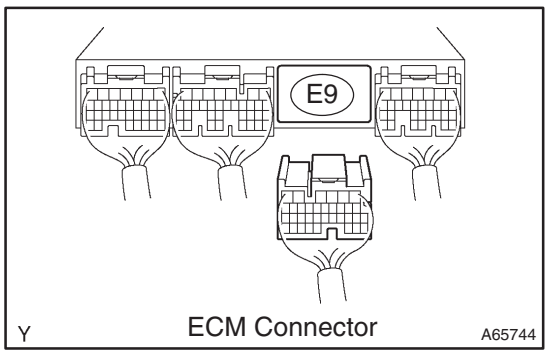
| 1 | CHECK IF MIL TURNS OFF |
|---|---|

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch to ON and turn the intelligent tester II ON.
(c) Select the following menu items: Powertrain / Engine and ECT / DTC.
(d) Check if DTCs have been stored. Note down if there are DTCs.
(e) Select the following menu items: Powertrain / Engine and ECT / DTC / Clear.
(f) Clear DTCs.
(g) Check if the MIL turns off.
**OK: The MIL should turn off.**

**OK** → **REPAIR CIRCUIT INDICATED BY OUTPUT DTC (See page 05–29)**

**NG**

| 2 | CHECK HARNESS AND CONNECTOR(CHECK FOR SHORT IN WIRE HARNESS) |
|---|---|




(a) Disconnect the E9 ECM connector.
(b) Turn the ignition switch to ON.
(c) Check that the MIL is not illuminated.
**OK: The MIL is not illuminated.**
(d) Reconnect the ECM connector.

**OK** → **REPLACE ECM (See page 10–12)**

**NG**

**CHECK AND REPAIR HARNESS AND CONNECTOR(SHORT CIRCUIT)**

| 3 | CHECK IF MIL ILLUMINATES |
|---|---|

(a) Check if the MIL illuminates when turning the ignition switch to ON.
**OK: The MIL should illuminate.**

**OK** → **NORMAL**

**NG**

| 4 | INSPECT COMBINATION METER ASSY(MIL CIRCUIT) |
|---|---|

(a) See the combination meter troubleshooting procedure (See Pub. No. RM990E, page 05–1546).

**NG** → **REPAIR OR REPLACE BULB OR COMBINATION METER ASSEMBLY**

**OK**

**CHECK AND REPAIR HARNESS AND CONNECTOR(OPEN CIRCUIT)(COMBINATION METER – ECM)**