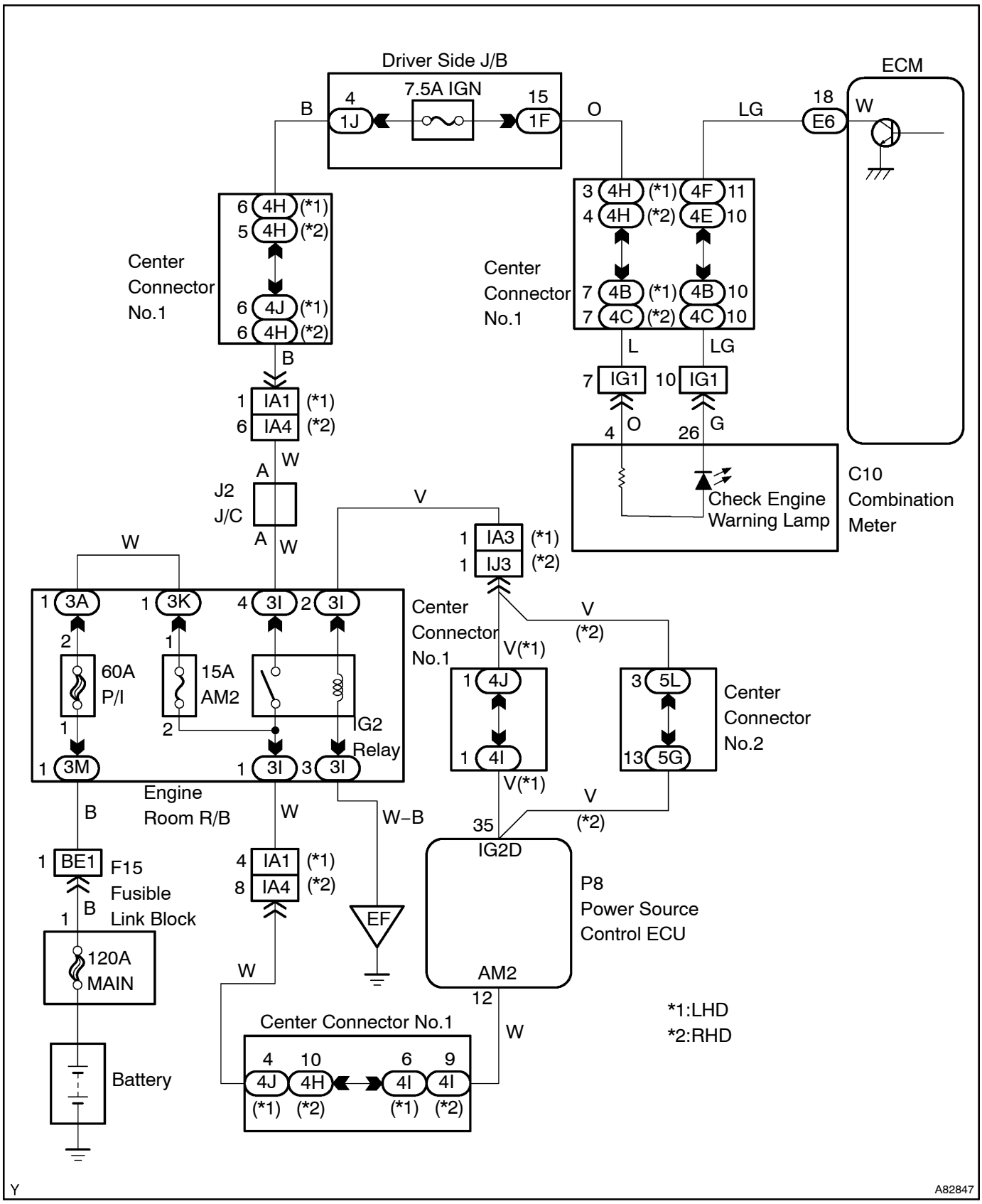
CHECK ENGINE WARNING LIGHT CIRCUIT

CIRCUIT DESCRIPTION

The IG2 relay energized by the power source control ECU applies the battery voltage to the check engine warning lamp in the combination meter while the main system is turned ON.
When it is necessary, the ECM grounds the W terminal line and illuminates CHK ENG.
In order to perform functional check visually, the CHK ENG is illuminated when the power switch is first turned ON. If the CHK ENG is ON or OFF all of the time, use the procedure below to troubleshoot it. The CHK ENG is used to indicate vehicle malfunction which was detected by the ECM. Follow this procedure using the intelligent tester II to determine cause of the problem and to check the CHK ENG.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Troubleshoot each trouble symptom in accordance with the chart below.

CHK ENG remains on	Start inspection from step 1
CHK ENG is not illuminated	Start inspection from step 3

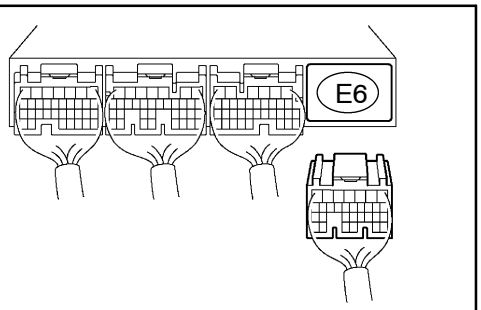
1 CLEAR DTC

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the power switch ON (IG).
(c) Turn the intelligent tester II ON.
(d) Read DTCs (see page 05–25).
(e) Clear the DTCs (see page 05–25).
(f) Check that CHK ENG is not illuminated.
Standard: CHK ENG is not illuminated.

OK → **REPAIR CIRCUIT INDICATED BY OUTPUT DTC (See page 05–39)**

NG

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



(a) Disconnect the E6 ECM connector.
(b) Turn the power switch ON (IG).
(c) Check that CHK ENG is not illuminated.
Standard: CHK ENG is not illuminated.
(d) Reconnect the ECM connector.

OK → **REPLACE ECM (See page 10–24)**

NG

CHECK AND REPAIR HARNESS AND CONNECTOR (COMBINATION METER – ECM)

3 CHECK THAT CHK ENG IS ILLUMINATED

(a) Check that CHK ENG is illuminated when the power switch is turned ON (IG ON).
Standard: CHK ENG is illuminated.

OK → **SYSTEM OK**

NG

4	INSPECT COMBINATION METER ECU

(a) See the combination meter troubleshooting on page 05–1584.

NG → REPAIR OR REPLACE BULB OR COMBINATION METER ASSEMBLY

OK

CHECK AND REPAIR HARNESS AND CONNECTOR (COMBINATION METER – ECM)