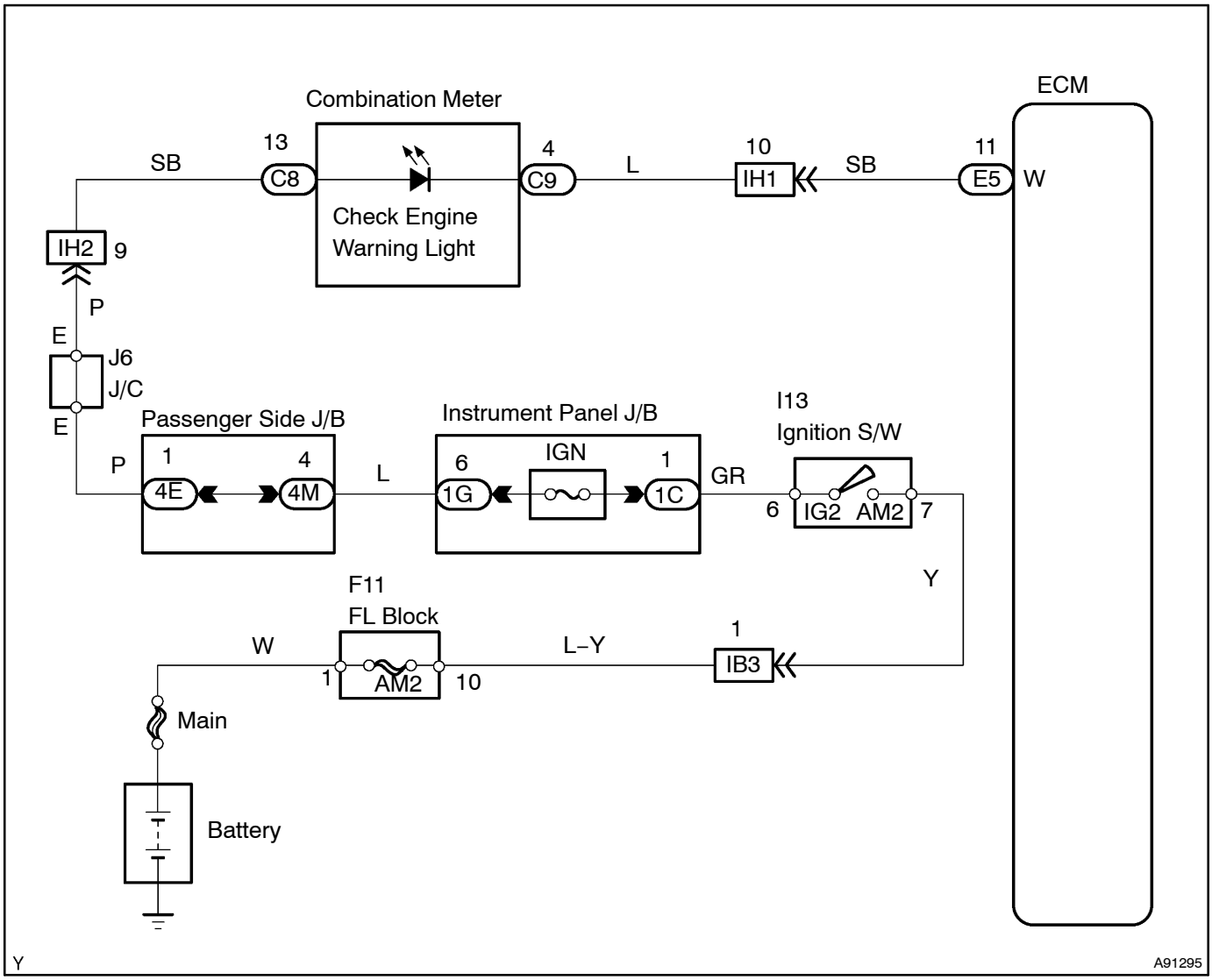
CHECK ENGINE WARNING LIGHT CIRCUIT

CIRCUIT DESCRIPTION

The CHK ENG is used to indicate the ECM's detection of a vehicle malfunction.
The instrument panel GAUGE fuse provides circuit power and the ECM provides the circuit ground that illuminates the CHK ENG.
CHK ENG operations should be checked visually:
The CHK ENG should be illuminated when the ignition is first turned on. If the CHK ENG is always ON or OFF, use the hand–held tester and follow the procedures below to determine the cause of the problem.

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

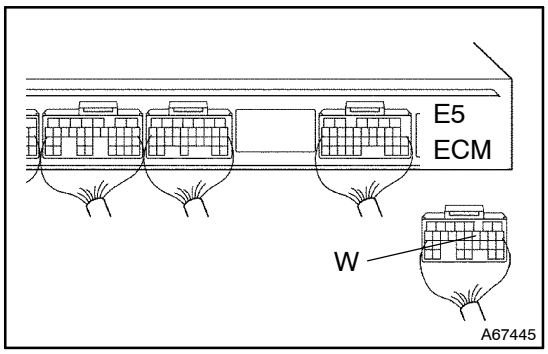
1	CLEAR DTC

(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch ON and push the hand–held tester main switch ON.
(c) Read the DTC.
(d) Clear the DTC (see page 05–17).
(e) Check that CHK ENG is not illuminated.
Standard: CHK ENG is not illuminated

OK	REPAIR CIRCUIT INDICATED BY OUTPUT DTC (See page 05–27)

NG

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



(a) Disconnect the E5 ECM connector.
(b) Turn the ignition switch ON.
(c) Check that CHK ENG is not illuminated.
Standard: CHK ENG is not illuminated

OK	REPLACE ECM (See page 10–13)

NG

CHECK AND REPAIR HARNESS AND CONNECTOR

3	CHECK THAT CHK ENG IS ILLUMINATED

(a) Check that the CHK ENG is illuminated when turning the ignition switch ON.
Standard: CHK ENG is illuminated

OK	SYSTEM OK

NG

4	INSPECT COMBINATION METER ASSY (CHK ENG CIRCUIT)

(a) See the combination meter troubleshooting on page 05–970.

NG	REPAIR OR REPLACE BULB OR COMBINATION METER ASSEMBLY

OK

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