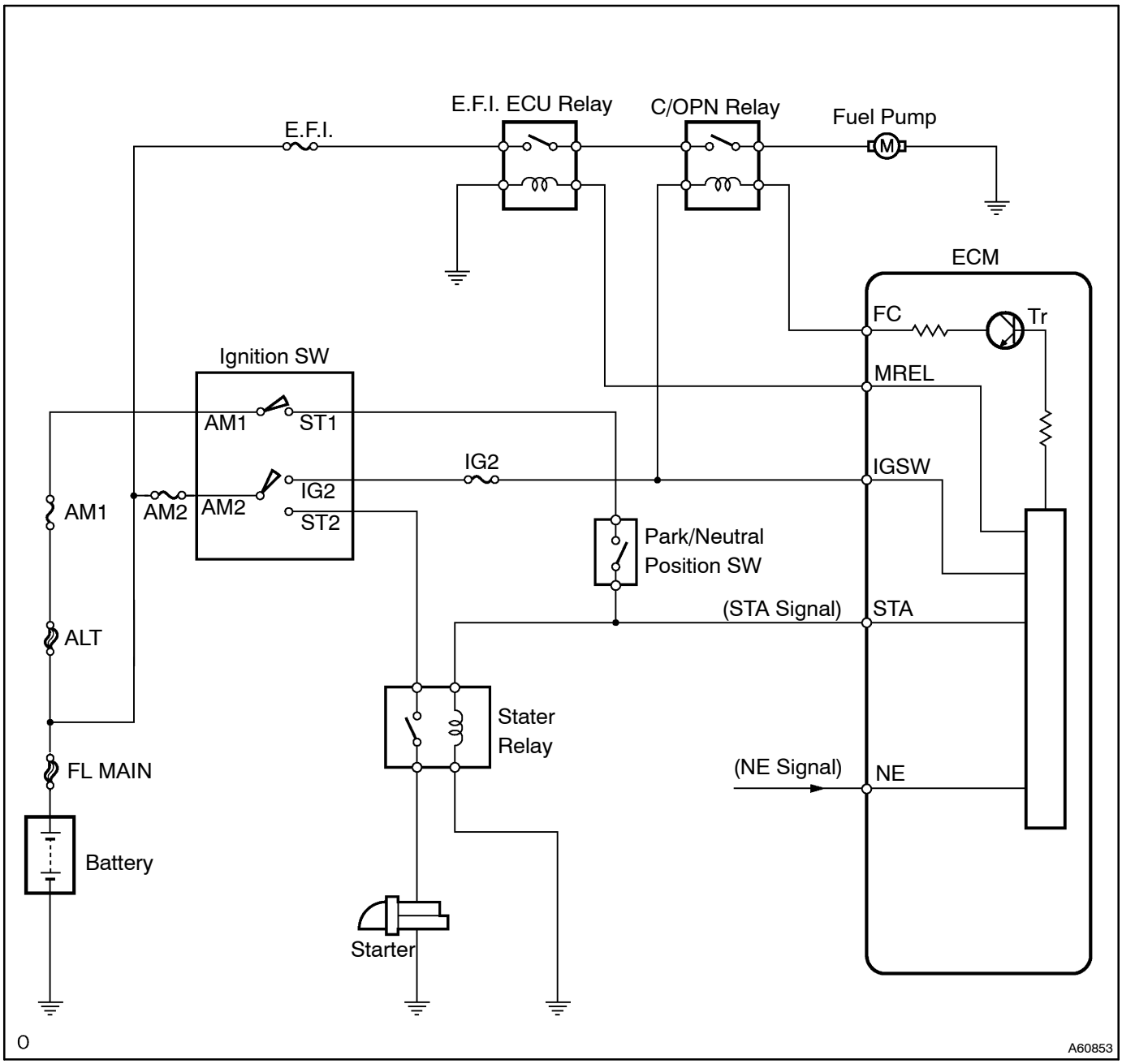
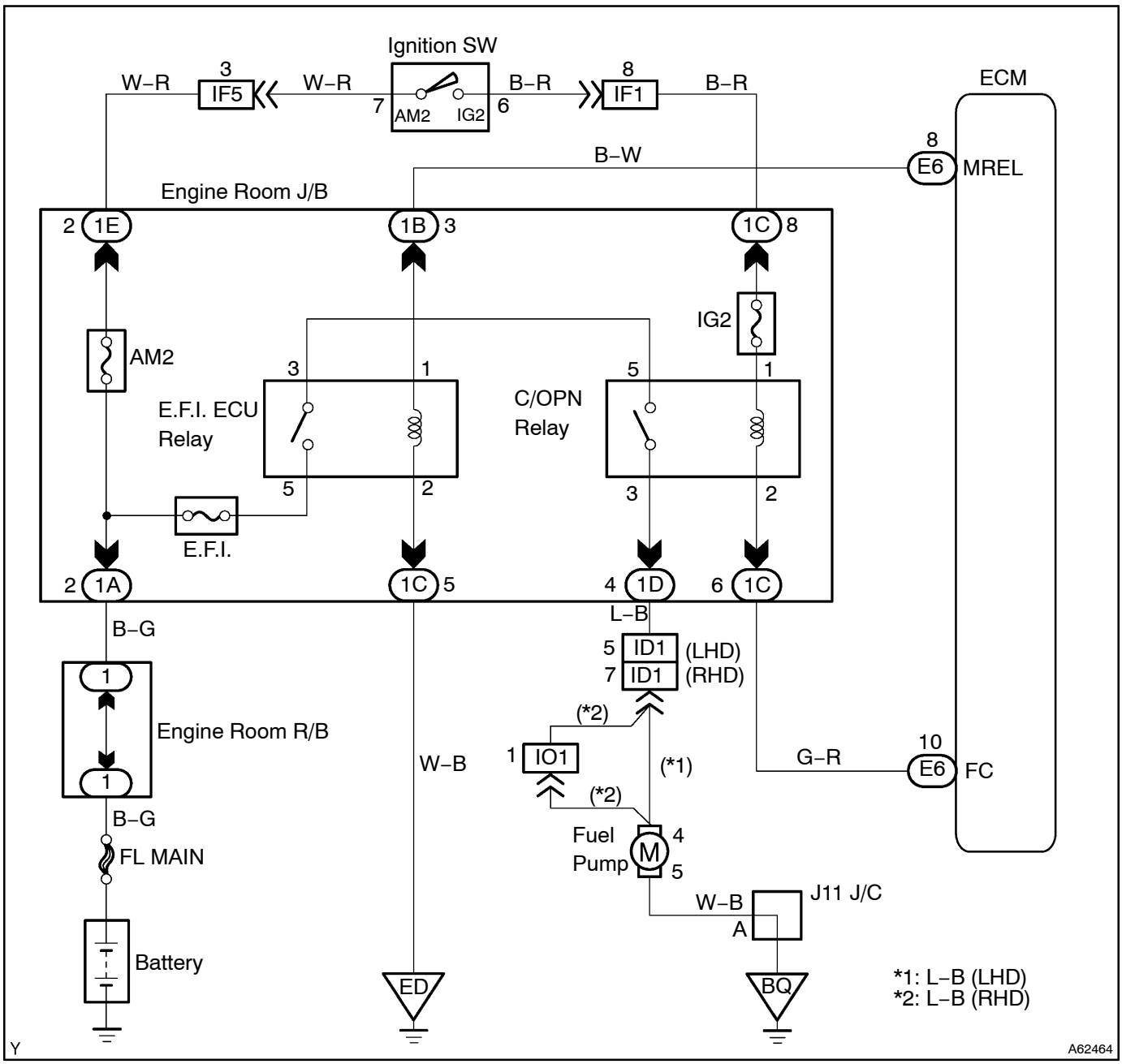
FUEL PUMP CONTROL CIRCUIT

CIRCUIT DESCRIPTION

In the diagram below, when the engine is cranked, current flows from terminal ST of the ignition switch to the starter relay (Marking: ST) coil and also current flows to terminal STA of ECM (STA signal).
When the STA signal and NE signal are input to the ECM, Tr is turned ON, current flows to coil of the circuit opening relay (Marking: C/OPN), the relay switches on, power is supplied to the fuel pump and the fuel pump operates.
While the NE signal is generated (engine running), the ECM keeps Tr ON (circuit opening relay ON) and the fuel pump also keeps operating.



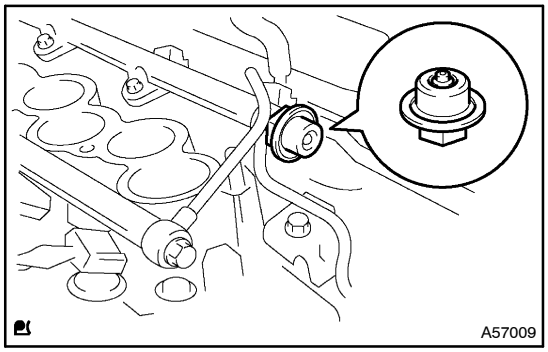
WIRING DIAGRAM



INSPECTION PROCEDURE

When using Hand–held Tester:

1	PERFORM ACTIVE TEST BY CHECK OPERATION OF FUEL PUMP



(a) Turn the ignition switch ON and push the hand–held tester main switch ON.
(b) Use the ACTIVE TEST mode to operate the fuel pump.
(c) Check that the pulsation damper screw rises up when the fuel pump is operated by the hand–held tester.
Result: The pulsation damper screw rises up.

OK → CHECK FOR STARTER SIGNAL CIRCUIT

NG

2	CHECK FOR ECM POWER SOURCE CIRCUIT (See page 05–439)

NG → REPAIR OR REPLACE

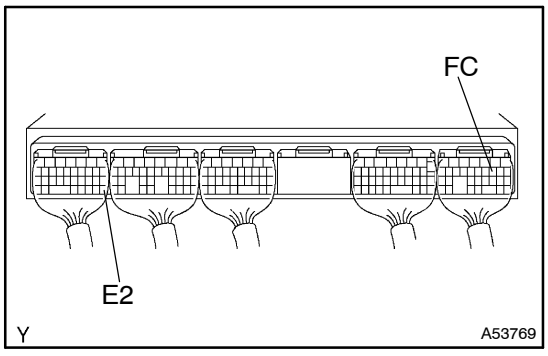
OK

3	CHECK E.F.I. CIRCUIT OPENING RELAY ASSY (See page 10–14)

NG → REPLACE E.F.I. CIRCUIT OPENING RELAY ASSY

OK

4	INSPECT ECM



(a) Turn the ignition switch ON.
(b) Measure the voltage between terminal FC and E2 of the ECM connector.
Voltage: 9 – 14 V

NG → CHECK HARNESS AND CONNECTOR

OK

5	INSPECT FUEL PUMP (See page 11–55)

NG → REPLACE FUEL PUMP

OK

6	CHECK HARNESS AND CONNECTOR(CIRCUIT OPENING RELAY – FUEL PUMP,FUEL PUMP – BODY GROUND)

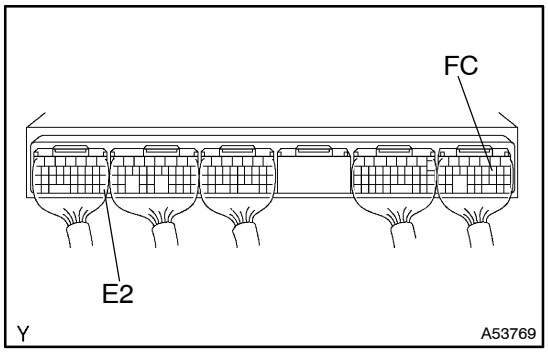
NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

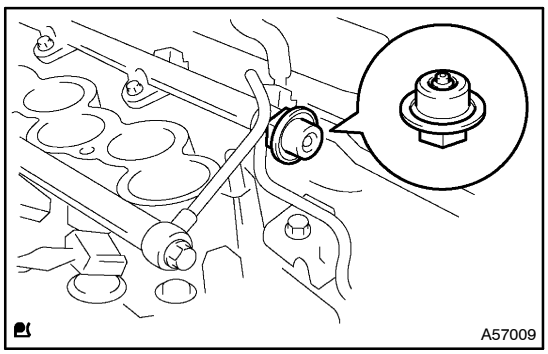
CHECK AND REPLACE ECM

When not using Hand–held Tester:

1	CHECK OPERATION OF FUEL PUMP



(a) Turn the ignition switch ON.
(b) Connect between terminal FC and E2 of the ECM connector.
(c) Check that the pulsation damper screw rises up when connecting between terminal FC and E2 of the ECM and E8 connector.
Result: The pulsation damper screw rises up.



OK → CHECK FOR STARTER SIGNAL CIRCUIT

NG

2	CHECK FOR ECM POWER SOURCE CIRCUIT (See page 05–439)

NG → REPAIR OR REPLACE

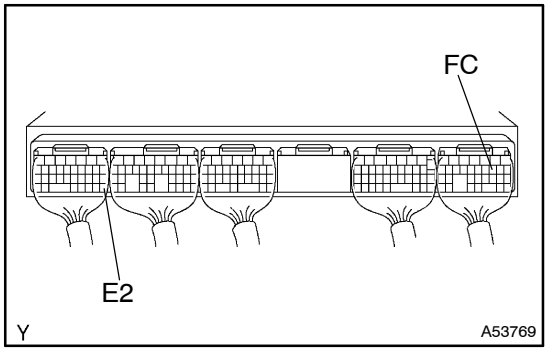
OK

3	CHECK E.F.I. CIRCUIT OPENING RELAY ASSY (See page 10–14)

NG → REPLACE E.F.I. CIRCUIT OPENING RELAY ASSY

OK

4 INSPECT ECM



(a) Turn the ignition switch ON.
(b) Measure the voltage between terminal FC and E2 of the ECM connector.
Voltage: 9 – 14 V

NG → CHECK HARNESS AND CONNECTOR

OK

5 CHECK FUEL PUMP (See page 11–55)

NG → REPLACE FUEL PUMP

OK

6 CHECK HARNESS AND CONNECTOR(CIRCUIT OPENING RELAY – FUEL PUMP,FUEL PUMP – BODY GROUND)

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

CHECK AND REPLACE ECM