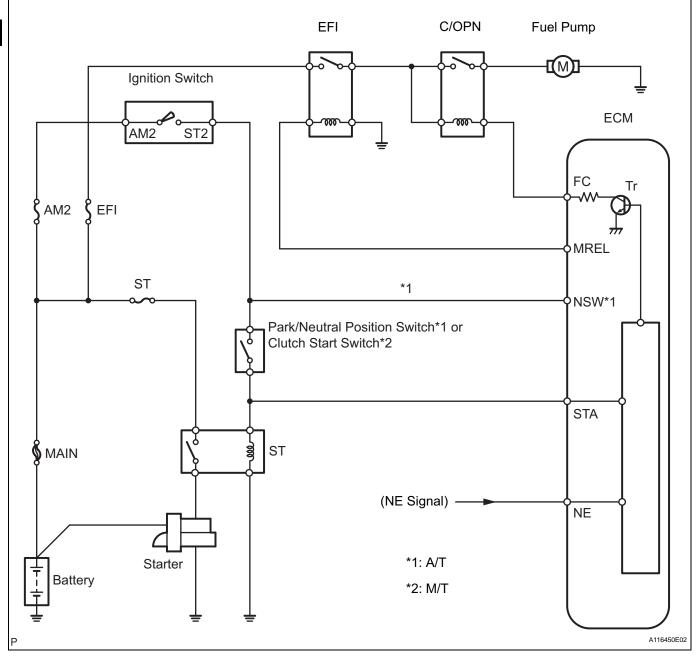
Fuel Pump Control Circuit

DESCRIPTION

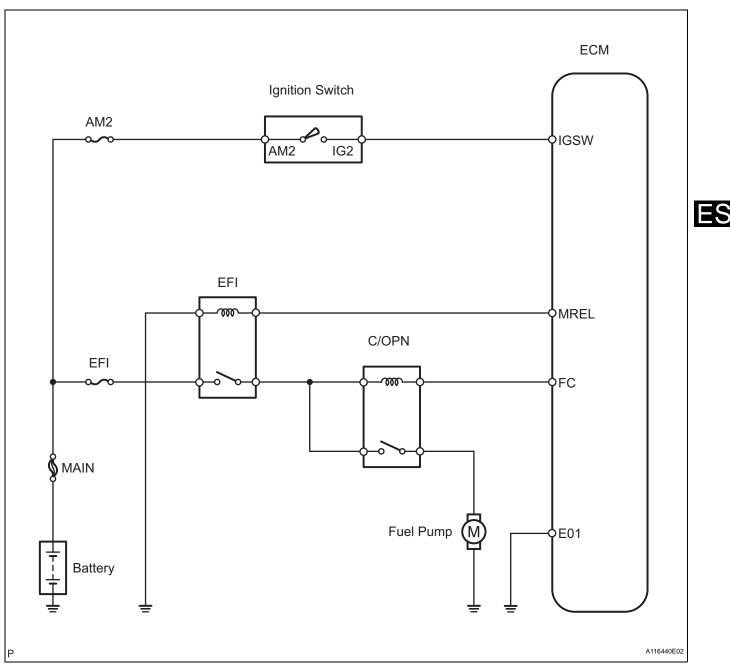
When the engine is cranked, a current flows from terminal ST2 of the ignition switch into the starter relay (Marking: ST) coil and a current also flows into terminal STA of the ECM (STA signal).

When the STA and NE signals are received by the ECM, Tr (power transistor) is switched on, allowing a current to flow into the circuit opening relay (Marking: C/OPN) coil. The circuit opening relay switches on, power is supplied to the fuel pump and the fuel pump operates.

While the NE signal is being generated (engine running), the ECM keeps Tr ON, therefore keeping the circuit opening relay ON, so that the fuel pump continues to operate.



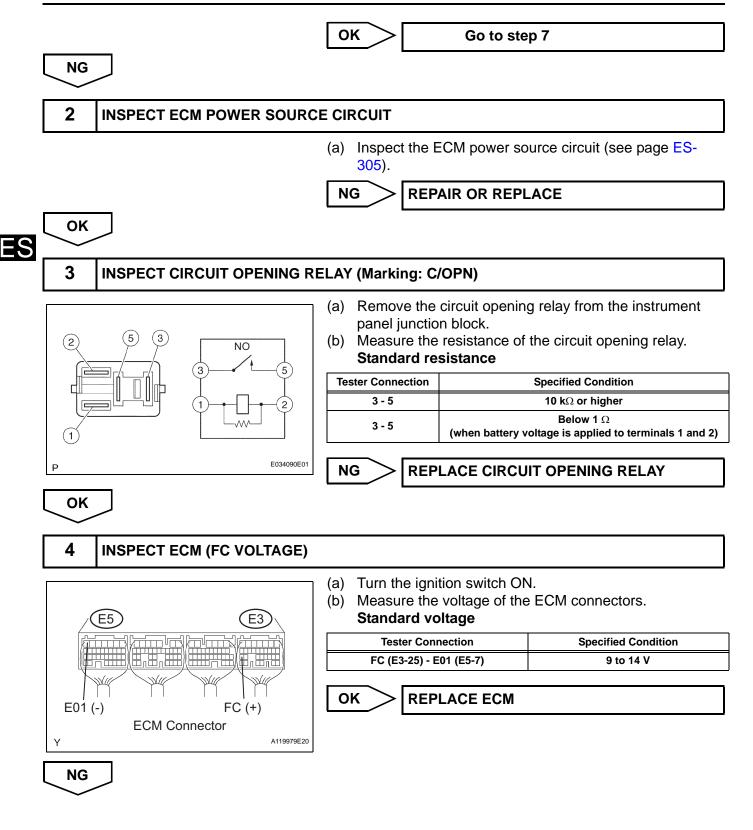
WIRING DIAGRAM



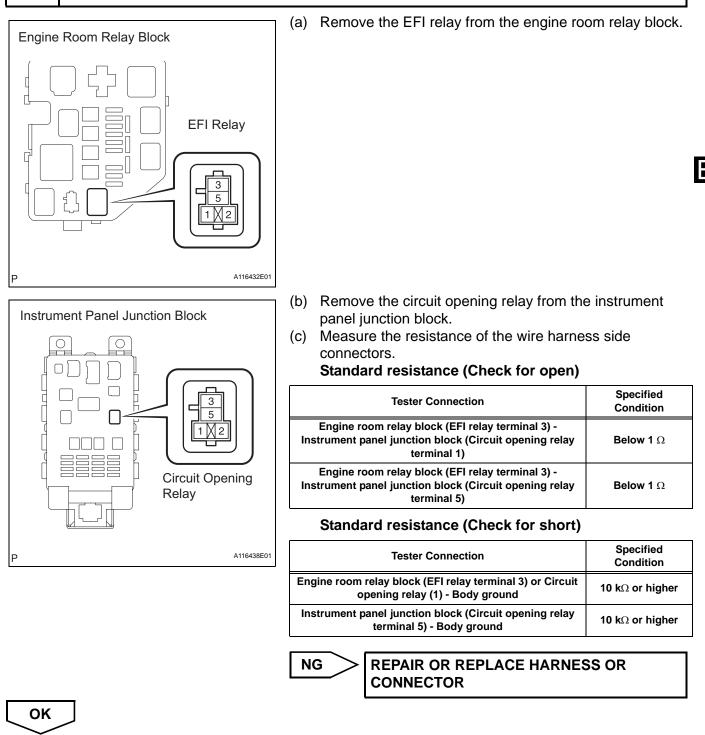
1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER (OPERATION OF CIRCUIT OPENING RELAY)

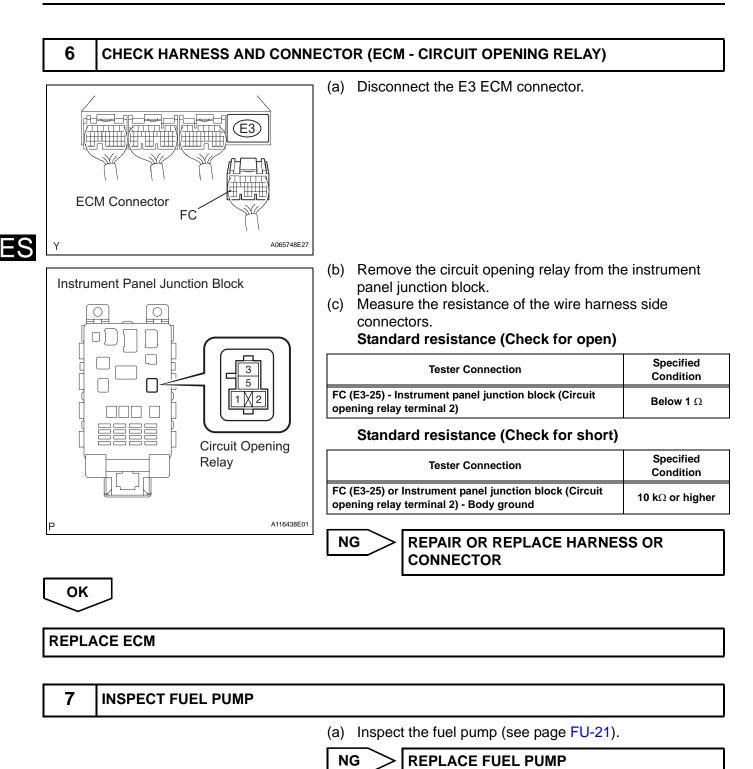
- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch ON and turn the tester ON.
- (c) Enter the following menus: DIAGNOSIS / ENHANCED OBD II / ACTIVE TEST / FUEL PUMP / SPD.
- (d) Check whether operating sounds can be heard while operating the relay using the tester.**OK:**

Operating sounds can be heard from relay.



5 CHECK HARNESS AND CONNECTOR (EFI RELAY (Marking: EFI) - CIRCUIT OPENING RELAY (Marking: C/OPN)

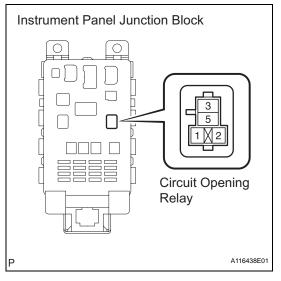




OK

8 CHECK HARNESS AND CONNECTOR (CIRCUIT OPENING RELAY (Marking: C/OPN) -FUEL PUMP, FUEL PUMP - BODY GROUND)

panel junction block.



Fuel Pump Connector

(c) Measure the resistance of the wire harness side

(a) Remove the circuit opening relay from the instrument

(b) Disconnect the F14 fuel pump connector.

connectors. Standard resistance (Check for open)

| Tester Connection | Specified Condition |
|--|------------------------|
| Instrument panel junction block (Circuit opening relay terminal 3) - Fuel pump (F14-4) | Below 1 Ω |
| Fuel pump (F14-5) - Body ground | Below 1 Ω |

Standard resistance Check for short)

| Tester Connection | Specified Condition |
|---|-------------------------|
| Instrument panel junction block (Circuit opening relay terminal 3) or Fuel pump (F14-4) - Body ground | 10 k Ω or higher |

NG

A066276E04

REPAIR OR REPLACE HARNESS OR CONNECTOR

REPLACE ECM

OK

Wire Harness Side

F14