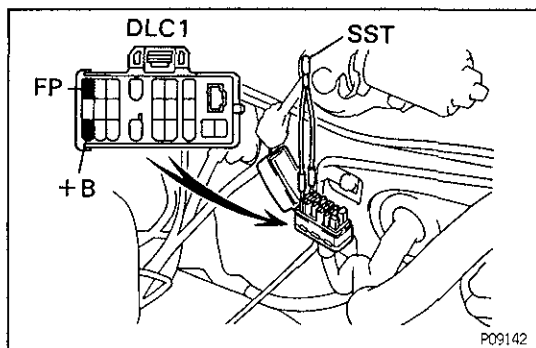
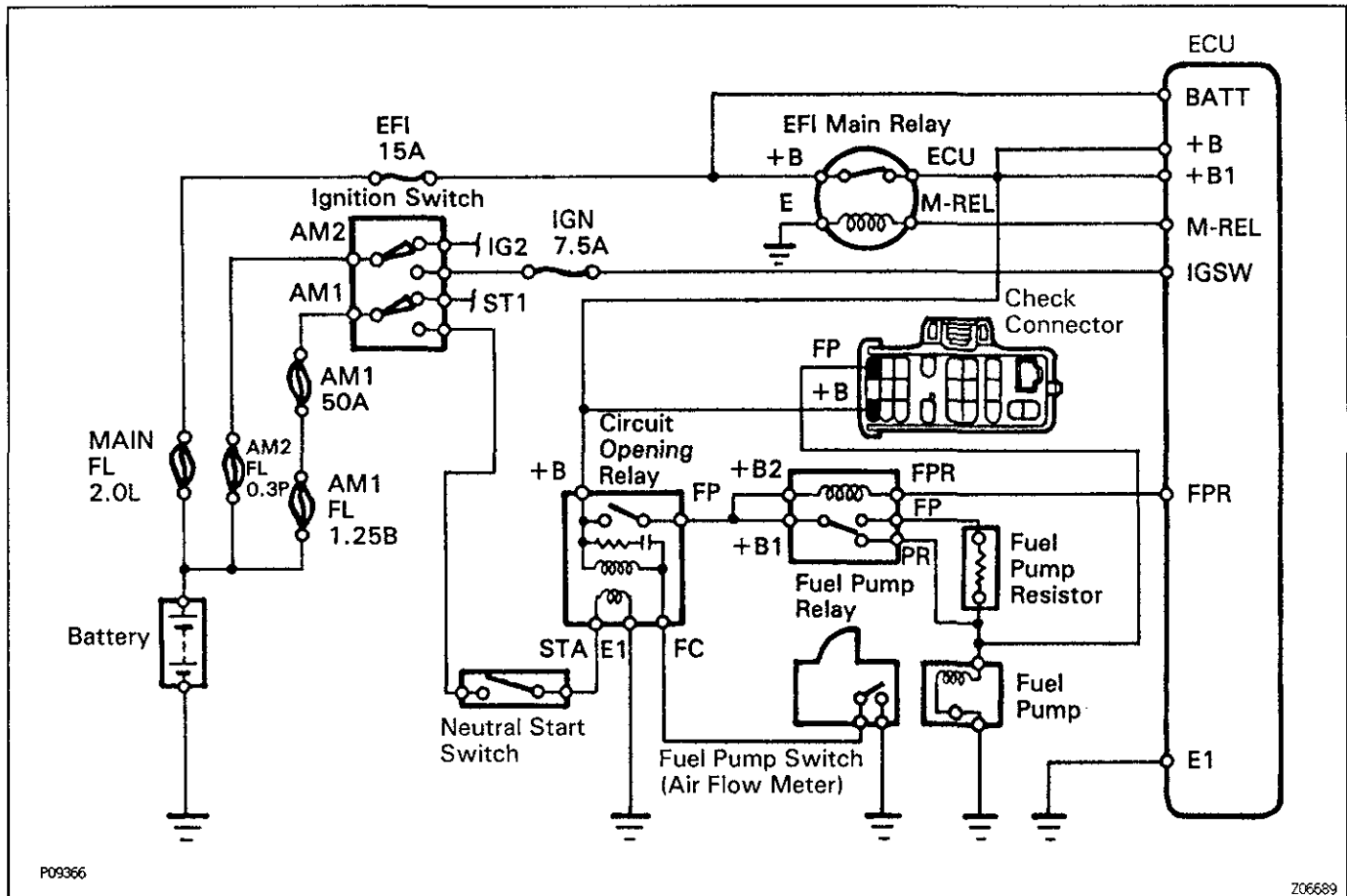


# FUEL PUMP SYSTEM CIRCUIT

EGOCY-09



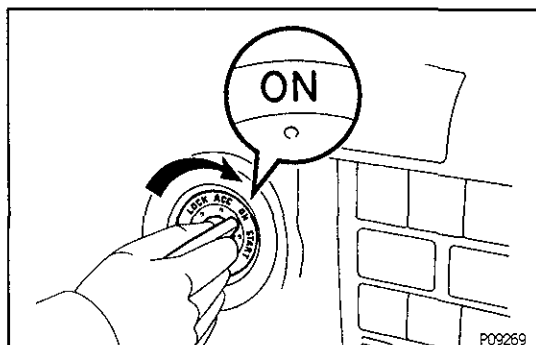
## ON—VEHICLE INSPECTION

EG1A5-04

### 1. CHECK FUEL PUMP OPERATION

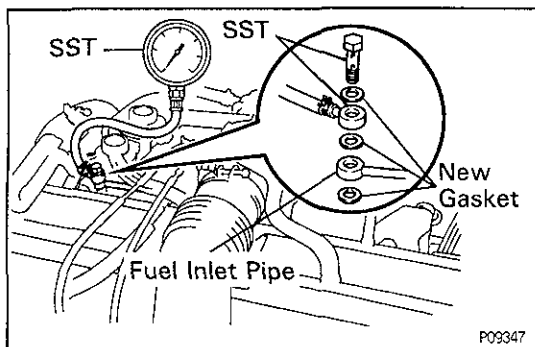
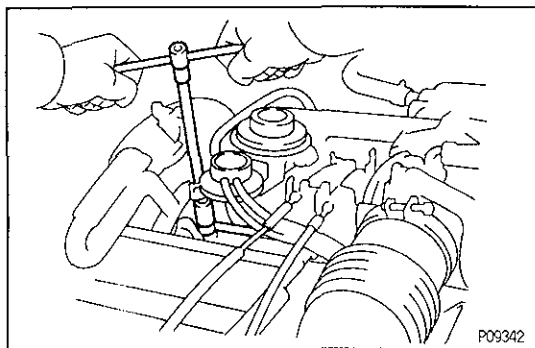
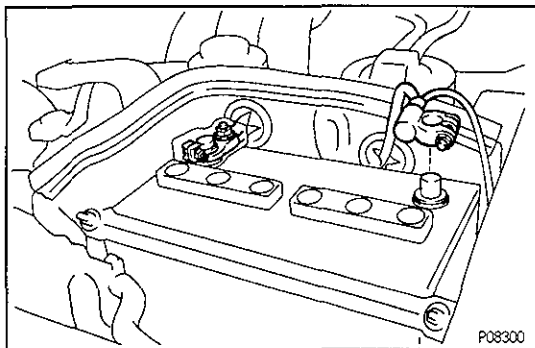
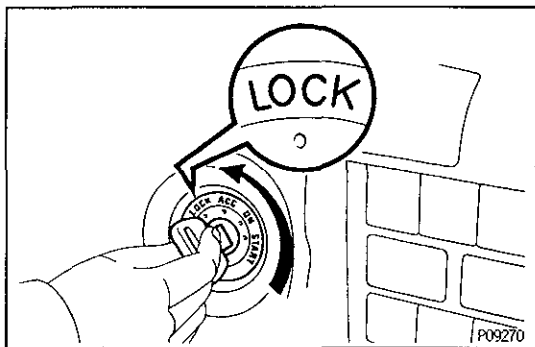
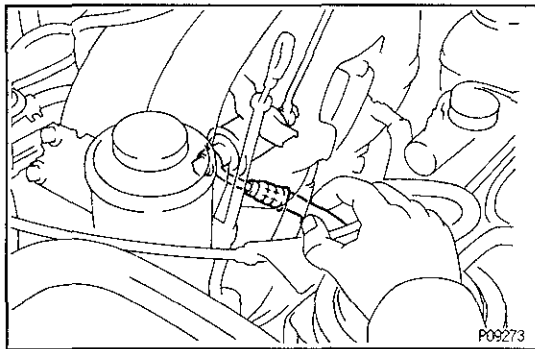
- (a) Using SST, connect terminals +B and FP of the check connector.

SST 09843-18020



- (b) Turn the ignition switch ON.  
**NOTICE:** Do not start the engine.

EG



- (c) Check that there is pressure in the hose from the fuel filter.

HINT: At this time, you will hear fuel return noise.

If there is no pressure, check the following parts:

- Fusible links (MAIN 2.0L, AM2 0.3P)
- Fuses (EFI 15A, IGN 7.5A)
- EFI main relay
- Fuel pump
- ECU
- Wiring connections

- (d) Turn the ignition switch OFF.

- (e) Remove SST.

SST 09843–18020

## 2. CHECK FUEL PRESSURE

- (a) Check that the battery voltages is above 12 volts.
- (b) Disconnect the cable from the negative (–) terminal of the battery.

- (c) Remove the union bolt and two gaskets, and disconnect the No.1 fuel pipe from the delivery pipe.

HINT:

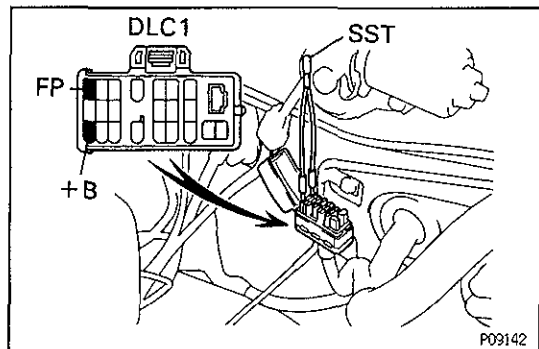
- Put a suitable container or shop towel under the delivery pipe.
- Slowly loosen the union bolt.

- (d) Install the No.1 fuel pipe and SST (pressure gauge) to the delivery pipe with three new gaskets and SST (union bolt).

SST 09268–45012

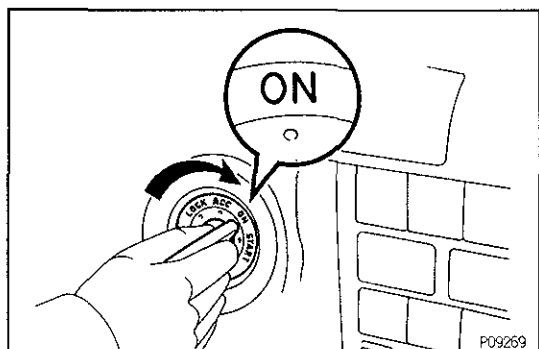
Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)

- (e) Wipe off any splattered gasoline.

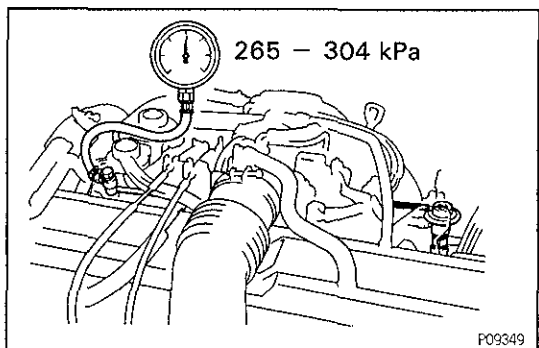


- (f) Using SST, connect terminals +B and FP of the check connector.  
SST 09843-18020
- (g) Reconnect the battery negative (–) cable.

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- (h) Turn the ignition switch ON.



- (i) Measure the fuel pressure.

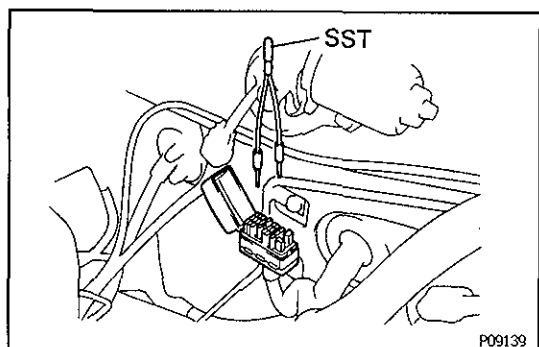
**Fuel pressure:**

**265–304 kPa (2.7–3.1 kgf/cm<sup>2</sup>, 38–44 psi)**

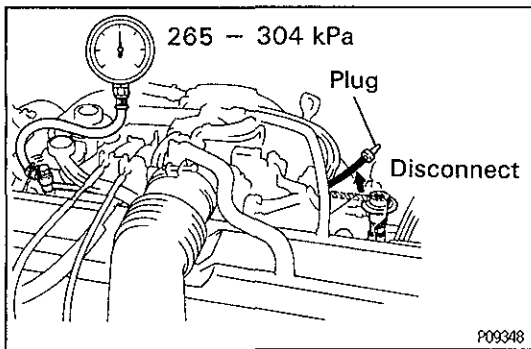
If pressure is high, replace the fuel pressure regulator.

If pressure is low, check the following parts:

- Fuel hoses and connections
- Fuel pump
- Fuel filter
- Fuel pressure regulator
- Fuel pume relay
- Fuel pump resistor
- Injectors



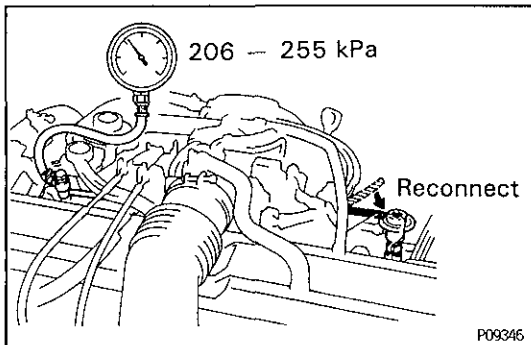
- (j) Remove SST from the check connector.  
SST 09843-18020



- (k) Start the engine.
- (l) Disconnect the vacuum sensing hose from the fuel pressure regulator, and plug the hose end.
- (m) Measure the fuel pressure at idle.

**Fuel pressure:**

**265–304 kPa (2.7–3.1 kgf/cm<sup>2</sup>, 38–44 psi)**



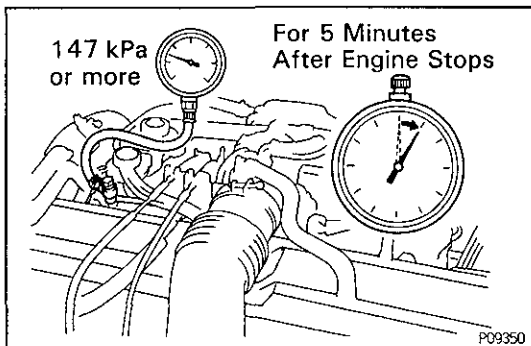
- (n) Reconnect the vacuum sensing hose to the fuel pressure regulator.
- (o) Measure the fuel pressure at idle.

**Fuel pressure:**

**206–255 kPa (2.1–2.6 kgf/cm<sup>2</sup>, 31–37 psi)**

If pressure is not as specified, check the vacuum sensing hose and fuel pressure regulator.

- (p) Stop the engine.



- (q) Check that the fuel pressure remains as specified for 5 minutes after the engine is stops.

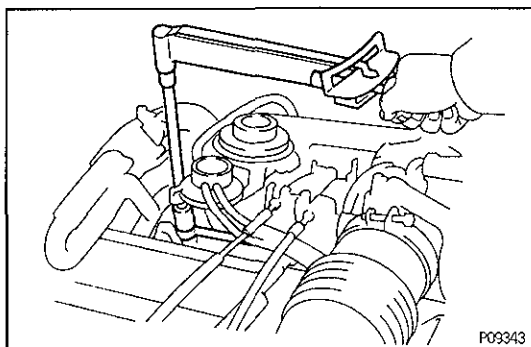
**Fuel pressure:**

**147 kPa (1.5 kgf/cm<sup>2</sup>, 21 psi) or more**

If pressure is not as specified, check the fuel pump, pressure regulator and/or injector.

- (r) After checking fuel pressure, disconnect the battery negative (–) cable and carefully remove SST to prevent gasoline from splashing.

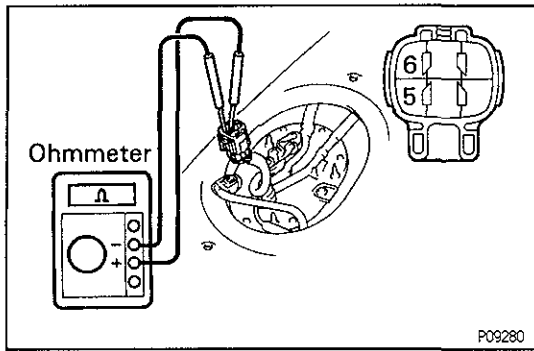
**SST 09268–45012**



- (s) Reconnect the No.1 fuel pipe to the delivery pipe with two new gaskets and the union bolt.

**Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)**

- (t) Reconnect the cable to the negative (–) terminal of the battery.
- (u) Check for fuel leakage.



## FUEL PUMP INSPECTION

### A. Inspect fuel pump resistance

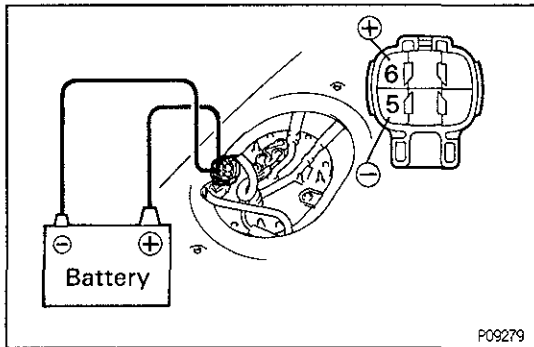
Using an ohmmeter, measure the resistance between the terminals 5 and 6.

**Resistance (Cold):**

**0.2 — 3.0  $\Omega$**

If the resistance is not as specified, replace the fuel pump.

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### B. Inspect fuel pump operation

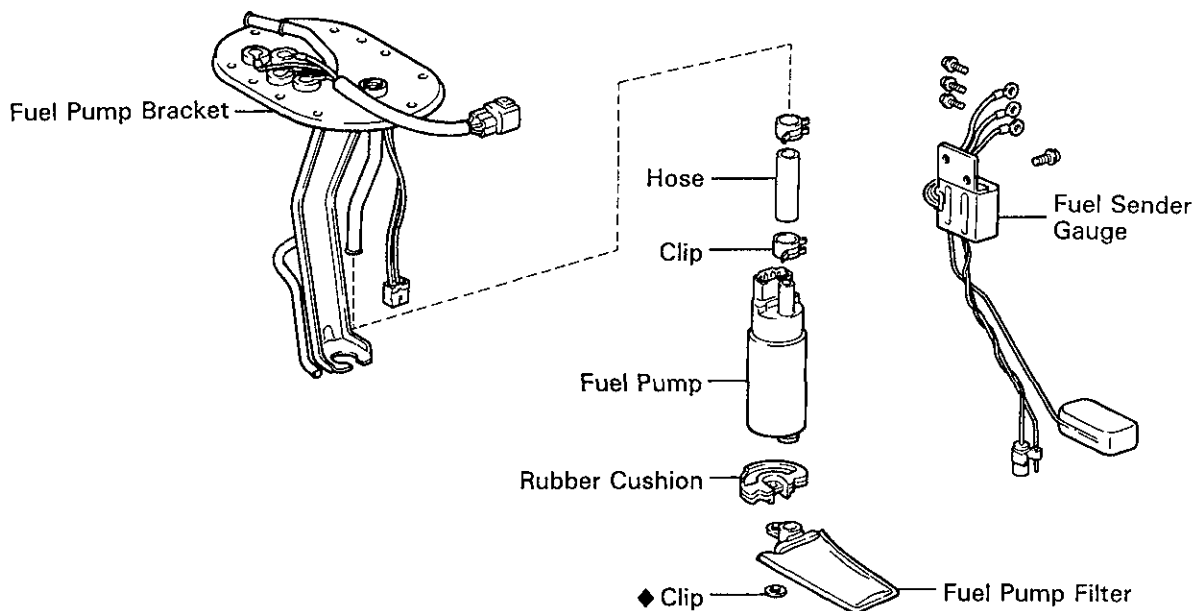
Connect the positive (+) lead from the battery to terminal 6 of the connector, and the negative (—) lead to terminal 5. Check that the fuel pump operates.

**NOTICE:**

- These tests must be performed quickly (within 10 seconds) to prevent the coil from burning out.
- Keep the fuel pump as far away from the battery as possible.
- Always perform switching at the battery side.

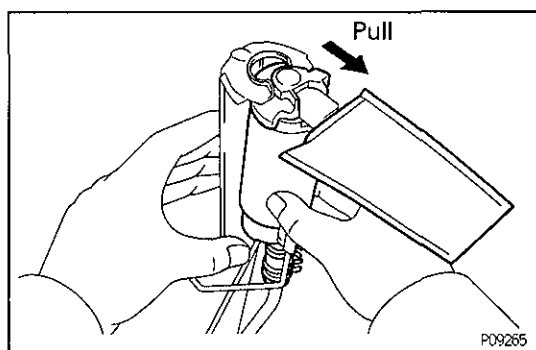
If operation is not as specified, replace the fuel pump.

## COMPONENTS FOR DISASSEMBLY AND ASSEMBLY



◆ Non-reusable part

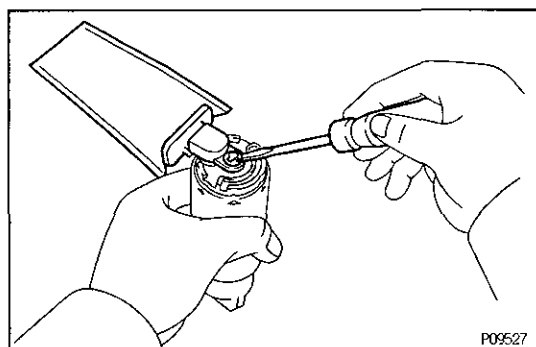
P09367

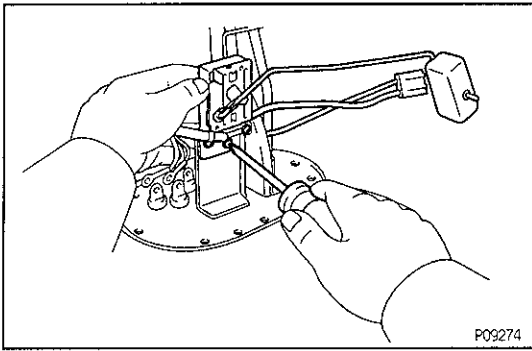


### FUEL PUMP DISASSEMBLY

EG18E-01

- 1. REMOVE FUEL PUMP FROM FUEL PUMP BRACKET**
  - (a) Pull off the lower side of the fuel pump from the pump bracket.
  - (b) Disconnect the fuel pump connector.
  - (c) Disconnect the fuel hose from the fuel pump, and remove the fuel pump.
  - (d) Remove the rubber cushion from the fuel pump.
- 2. REMOVE FUEL PUMP FILTER FROM FUEL PUMP**
  - (a) Using a small screwdriver, remove the clip.
  - (b) Pull out the pump filter.





### 3. REMOVE FUEL SENDER GAUGE FROM FUEL PUMP BRACKET

- (a) Remove the three screws and disconnect the lead wires from the pump bracket.
- (b) Remove the three screws and sender gauge.

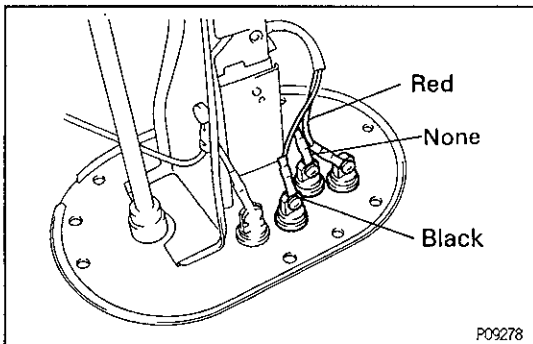
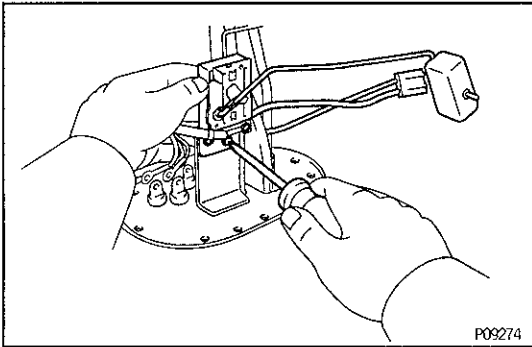
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EG003-06

## FUEL PUMP ASSEMBLY

### 1. INSTALL FUEL SENDER GAUGE TO FUEL PUMP BRACKET

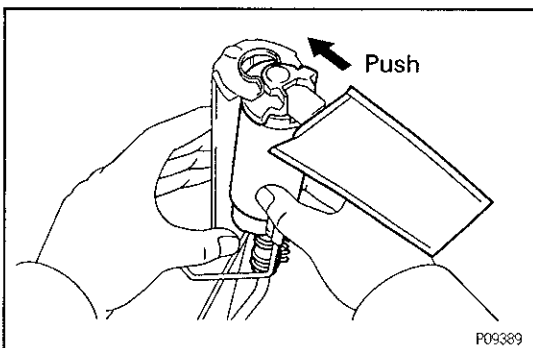
- (a) Install the sender gauge with the three screws.



- (b) Connect the three lead wires to the pump bracket with the screws as shown.

### 2. INSTALL FUEL PUMP FILTER TO FUEL PUMP

Install the pump filter with a new clip.



### 3. INSTALL FUEL PUMP TO FUEL PUMP BRACKET

- (a) Install the rubber cushion to the fuel pump.
- (b) Connect the fuel hose to the outlet port of the fuel pump.
- (c) Install the fuel pump connector.
- (d) Install the fuel pump by pushing the lower side of the fuel pump.