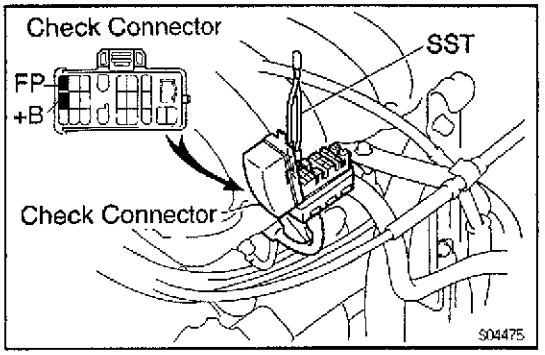


EG

FUEL PUMP

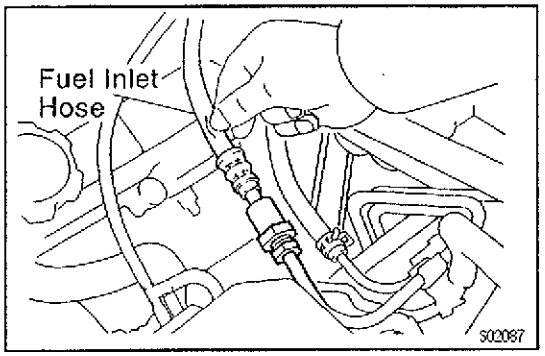
E0825-02

ON–VEHICLE INSPECTION

1. CHECK FUEL PUMP OPERATION

(a) Using SST, connect terminals +B and FP of the check connector.
SST 09843–18020

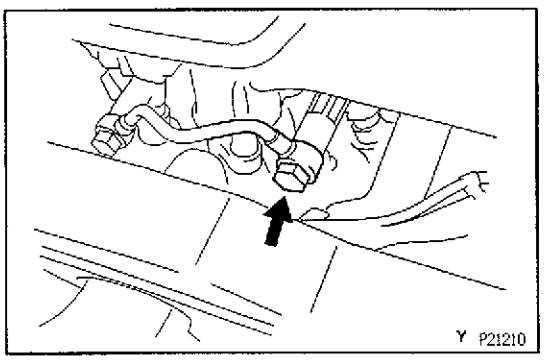
(b) Turn the ignition switch ON.
NOTICE: Do not start the engine.

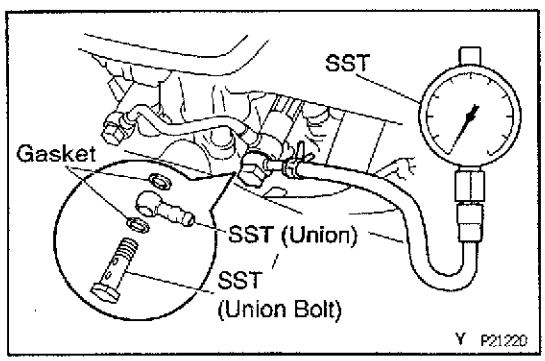


(c) Check that there is pressure in the fuel inlet hose from the fuel filter.
HINT: If there is fuel pressure, you will hear the sound of fuel flowing.
If there is no pressure, check these parts:
- H–fuse (ALT 100A)
- M–fuse (AM1 40A, AM2 30A)
- Fuses (EFI 15A, IGN 7.5A)
- EFI main relay
- Circuit opening relay
- Fuel pump
- Engine ECU
- Wiring connections

(d) Turn the ignition switch to LOCK.

(e) Remove the SST from the check connector.
SST 09843–18020





2. CHECK FUEL PRESSURE

(a) Check the battery positive voltage is above 12 V.

(b) Disconnect the negative (–) terminal cable from the battery.

(c) Remove the union bolt and 2 gaskets, and disconnect the fuel inlet hose from the fuel filter outlet.
CAUTION:
- **Put a shop towel under the fuel filter.**
- **Slowly loosen the union bolt.**

(d) Install the fuel inlet hose and SST (pressure gauge) to the fuel filter outlet with the 3 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) Reconnect the negative (–) terminal cable to the battery.

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

SST 09843–18020

(h) Turn the ignition switch ON.

(i) Measure the fuel pressure.

Fuel pressure:

265 – 304 kPa (2.7 – 3.1 kgf/cm², 38 – 44 psi)

If pressure is high, replace the fuel pressure regulator.

If pressure is low, check these parts:

- Fuel hoses and connections
- Fuel pump
- Fuel filter
- Fuel pressure regulator
- VSV for fuel pressure control

(j) Remove the SST from the check connector.

SST 09843–18020

(k) Reinstall the No.2 timing belt cover with the bolts.

Torque: 9 N·m (90 kgf·cm, 80 in.·lbf

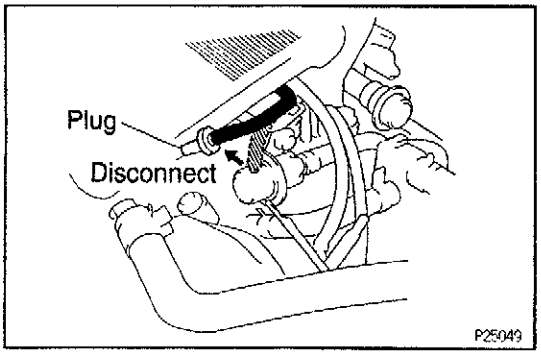
(l) Start the engine.

(m) Disconnect the vacuum sensing hose from the fuel pressure regulator, and plug the hose end.

(n) Measure the fuel pressure at idle.

Fuel pressure:

265 – 304 kPa (2.7 – 3.1 kgf/cm², 38 – 44 psi)



(o) Reconnect the vacuum sensing hose to the fuel pressure regulator.

(p) Measure the fuel pressure at idle.

Fuel pressure:

226 – 265 kPa (2.3 – 2.7 kgf/cm², 33 – 38 psi)

If pressure is not within the specification, check the vacuum sensing hose and fuel pressure regulator.

(q) Stop the engine.

(r) Check that the fuel pressure remains as specified for 5 minutes after the engine has stopped.

Fuel pressure:

147 kPa (1.5 kgf/cm², 21 psi) or more

If pressure is not within the specification, check the fuel pump, pressure regulator and/or injectors.

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

SST 09268–45012

(t) Remove the other union bolt, 3 gaskets and fuel pipe from the delivery pipes.

(u) Reinstall the fuel pipe with 4 new gaskets and the 2 union bolts.

Torque: 34.3 N·m (350 kgf·cm, 25 ft·lbf)

(v) Reconnect the negative (–) terminal cable to the battery.

(w) Check for fuel leakage.

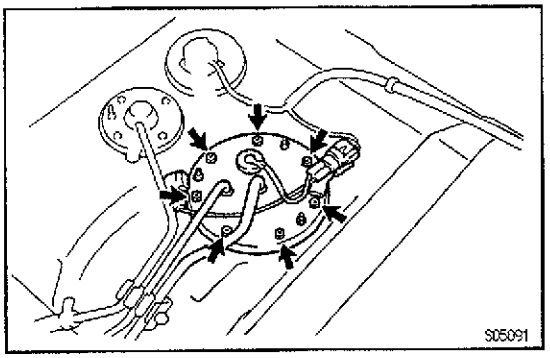
EG7GG-01

FUEL PUMP INSPECTION

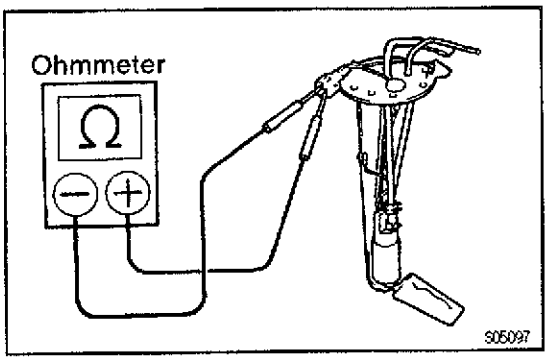
CAUTION: Do not smoke or work near an open flame when working on the fuel pump.

1. **REMOVE FUEL TANK**
(See Pub. No. RM517E on page BO–79)

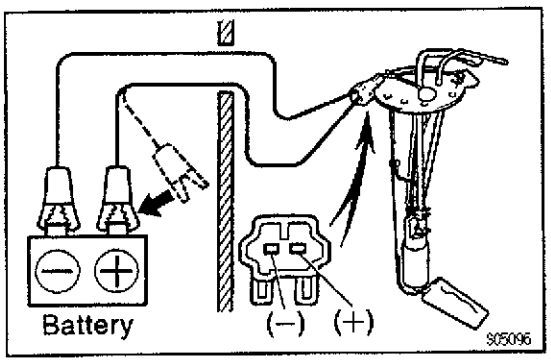
EG



2. **REMOVE FUEL PUMP BRACKET ASSEMBLY FROM FUEL TANK**
(a) Disconnect the fuel pump connector.
(b) Remove the 7 bolts.
(c) Pull out the pump bracket assembly.
(d) Remove the gasket from the pump bracket.



3. **INSPECT FUEL PUMP**
A. INSPECT FUEL PUMP RESISTANCE
(a) Using an ohmmeter, measure the resistance between the terminals.
Resistance: At 20° (68°F): 0.2–0.3 Ω
If the resistance is not as specified, replace the fuel pump and/or set plate.



B. INSPECT FUEL PUMP OPERATION
Connect the positive (+) lead from the battery to terminal (+) of the connector, and the negative (–) lead to terminal (–). Check that the fuel pump operates.
NOTICE:
- **These tests must be done quickly (within 10 seconds) to prevent the coil from burning out.**
- **Keep the fuel pump as far away from the battery as possible.**
- **Always do switching at the battery side.**

If operation is not as specified, replace the fuel pump and/or plate.

3. REINSTALL FUEL PUMP BRACKET ASSEMBLY FROM FUEL TANK

(a) Install a new gasket to the pump bracket.

(b) Pull in the pump bracket assembly.

(c) Install the 7 bolts.
Torque: 3.5 N·m (35 kgf·cm, 30 in.·lbf)

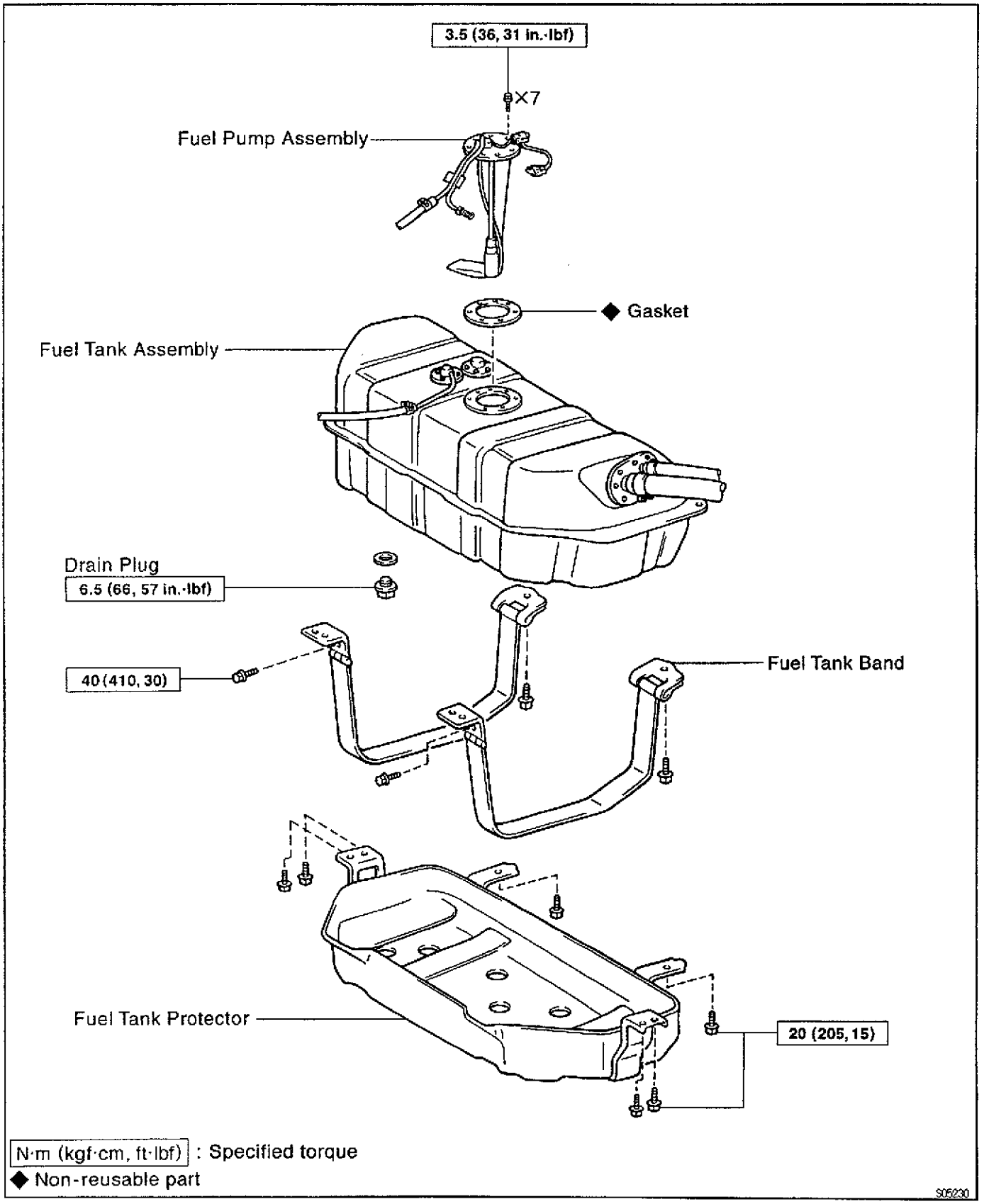
(d) Connect the fuel pump connector.

4. REINSTALL FUEL TANK
(See Pub. No. RM517E on page BO–79)

EG2D0-08

COMPONENTS FOR REMOVAL AND INSTALLATION

EG



N·m (kgf·cm, ft·lbf) : Specified torque
◆ Non-reusable part

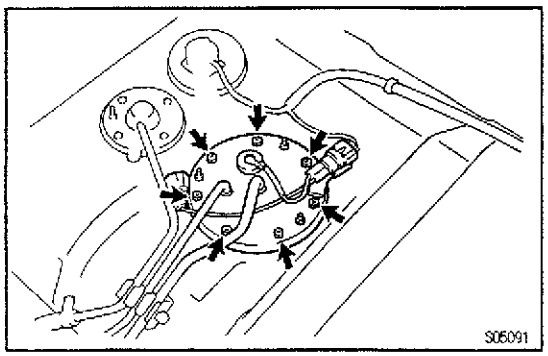
S05230

FUEL PUMP REMOVAL

EG7GR-01

CAUTION: Do not smoke or work near an open flame when working on the fuel pump.

1. **REMOVE FUEL TANK**
   (See Pub. No. RM517E on page BO−79)
2. **DISCONNECT FUEL PUMP CONNECTOR**



3. **REMOVE FUEL PUMP BRACKET ASSEMBLY FROM FUEL TANK**

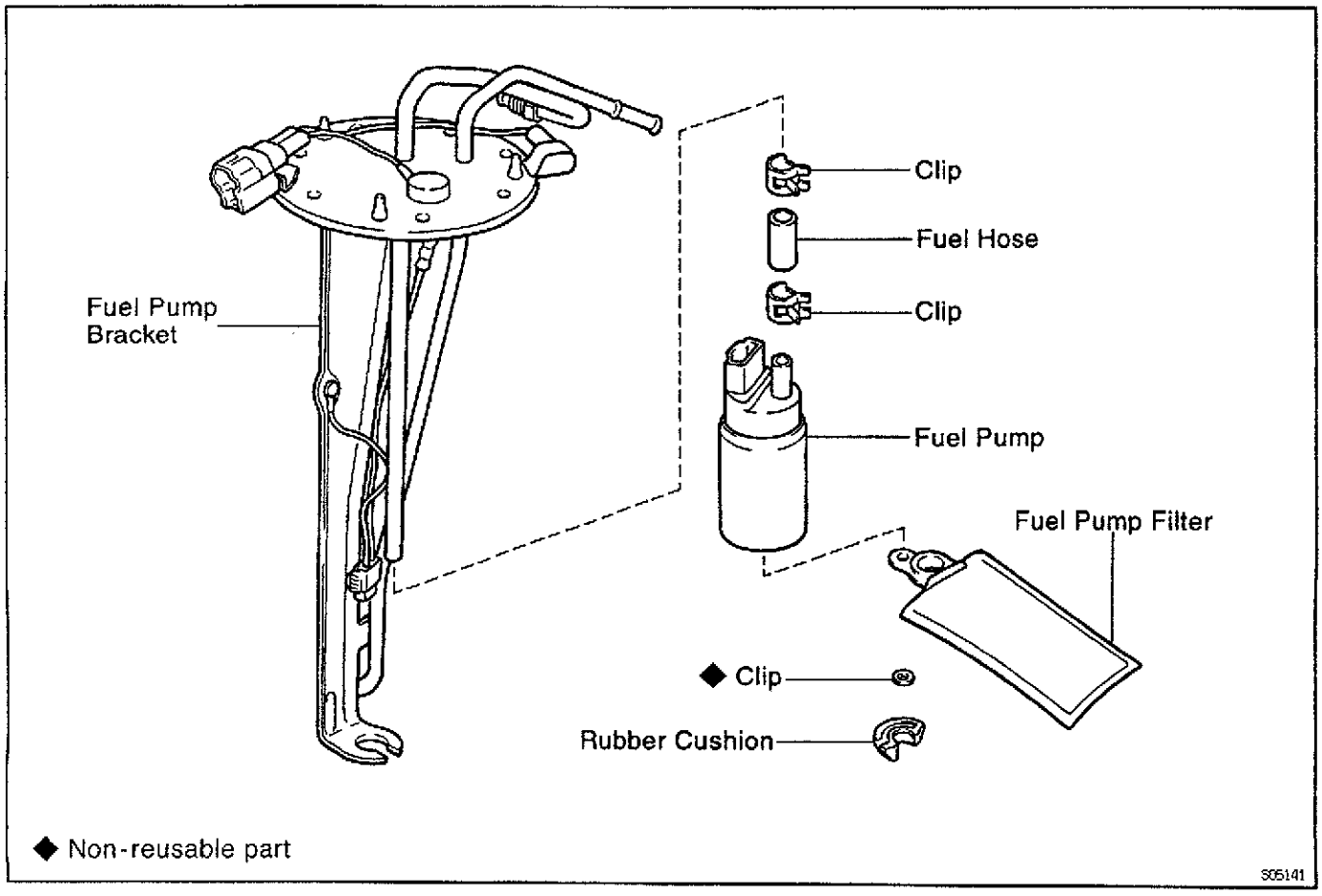
(a) Remove the 7 bolts.
Torque: 3.5 N·m (36 kgf·cm, 31 in.·lbf)

(b) Pull out the pump bracket assembly.

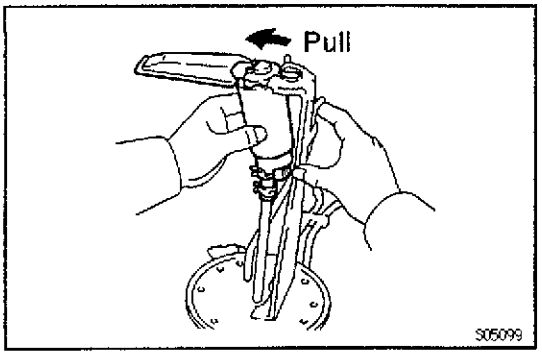
(c) Remove the gasket from the pump bracket.
NOTICE: Do not damage the fuel pump filter.

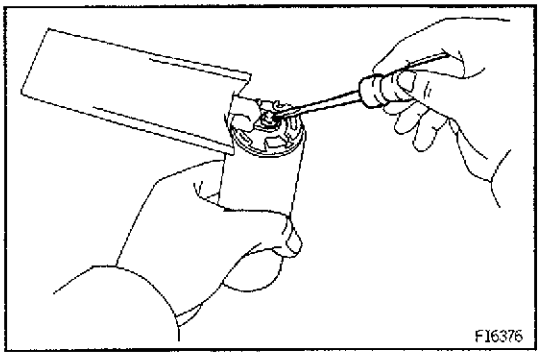
COMPONENTS FOR DISASSEMBLY AND ASSEMBLY

EG6AN-03



EG





FUEL PUMP DISASSEMBLY

EG7CS–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.
ASSEMBLY HINT: Install the pump filter with a new clip.

FUEL PUMP ASSEMBLY

EG66J–03

Assembly is in the reverse order of disassembly.

FUEL PUMP INSTALLATION

EG66K–03

Installation is in the reverse order of removal.