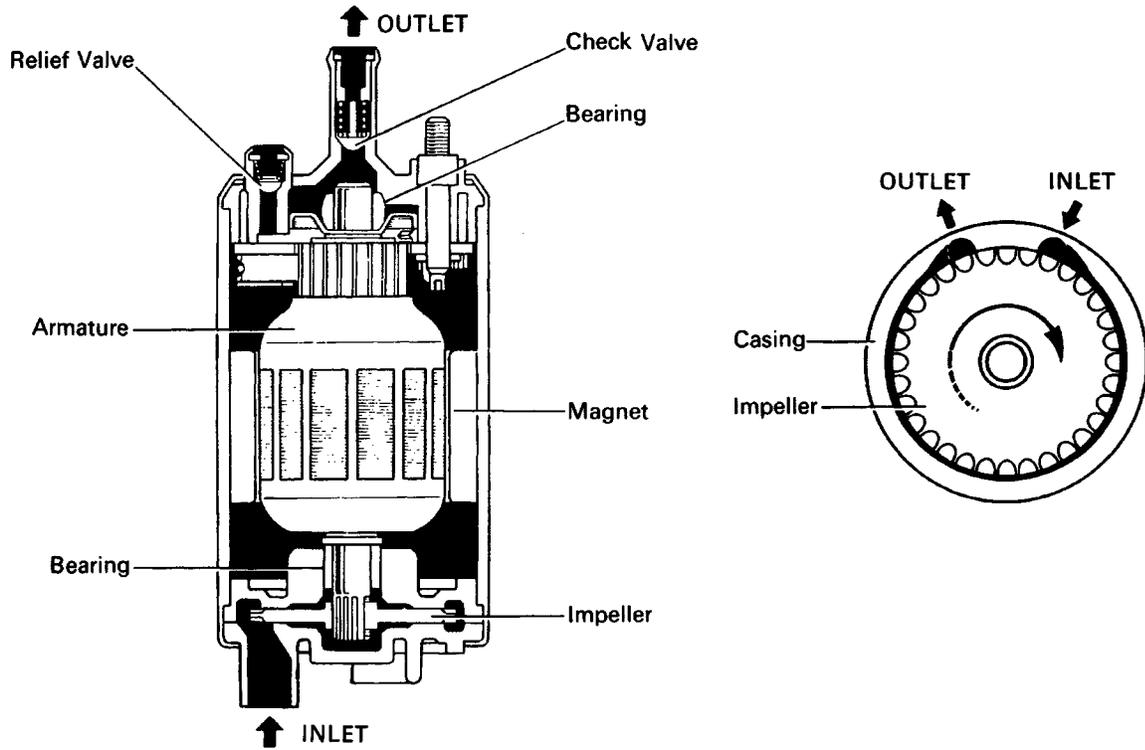
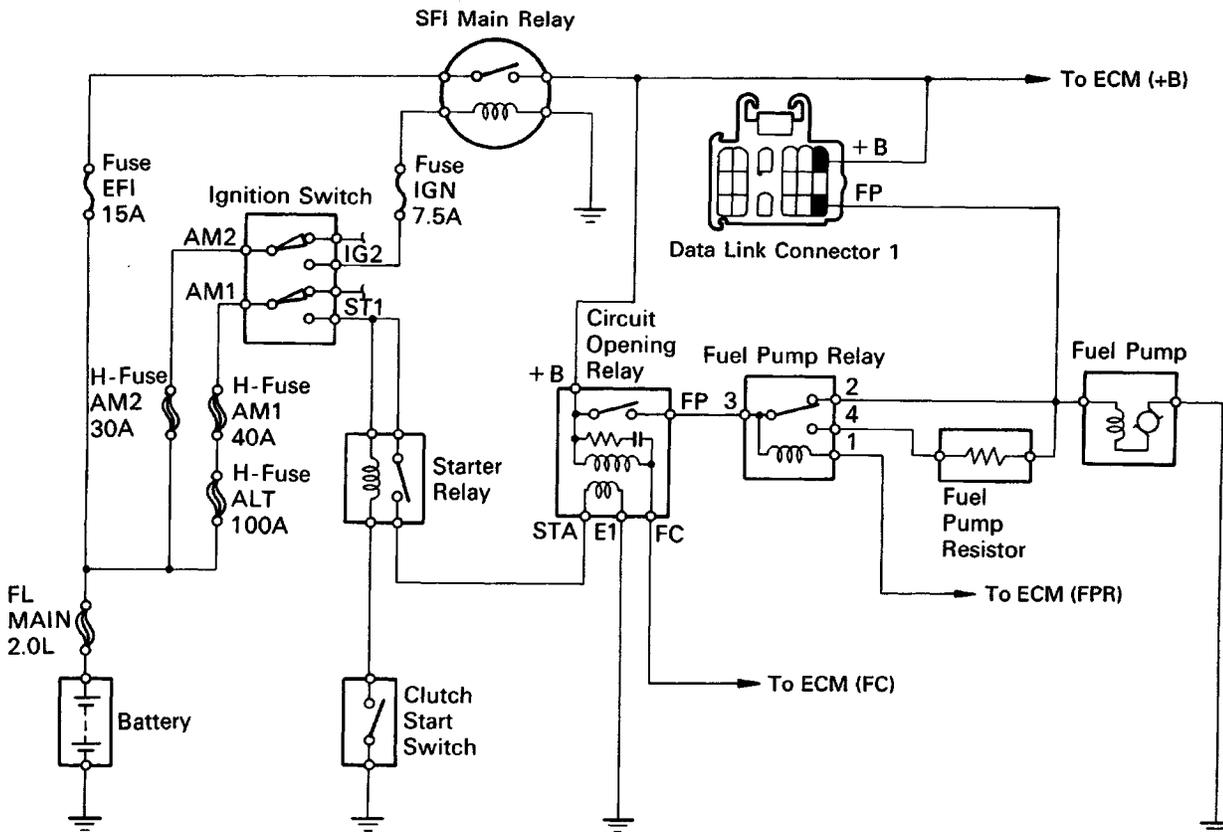


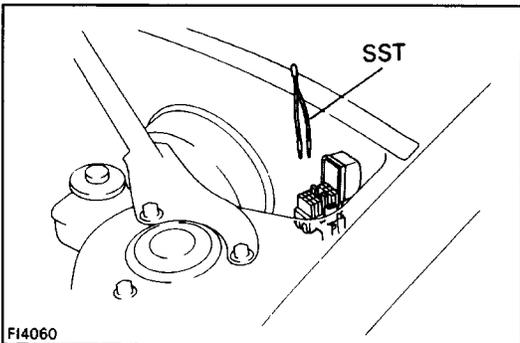
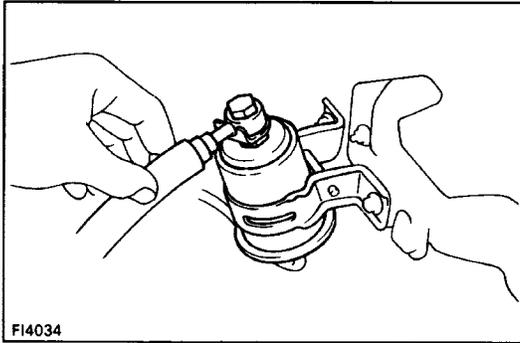
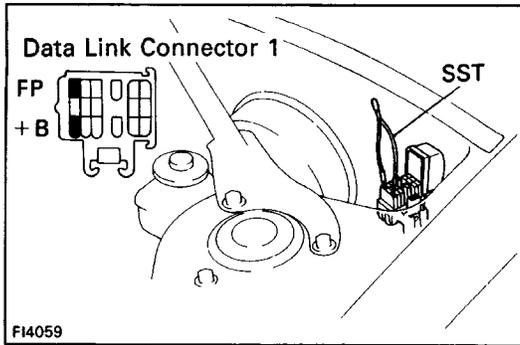
# Fuel Pump (3S-GTE)



FI0530 FI1479



FI5423



## ON-VEHICLE INSPECTION

### 1. CHECK FUEL PUMP OPERATION

(a) Using SST, connect terminals +B and FP of the data link connector 1.

SST 09843-18020

(b) Turn the ignition switch ON.

**NOTICE: Do not start the engine.**

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

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

(d) Turn the ignition switch OFF.

(e) Remove SST.

SST 09843-18020

If there is no pressure, check the following parts:

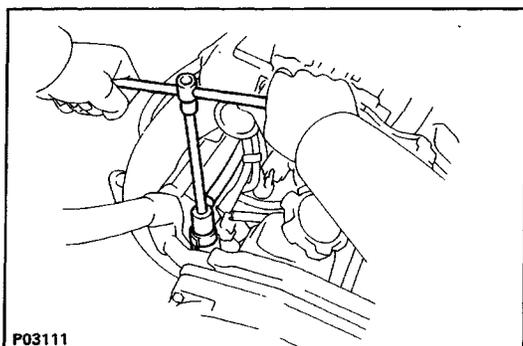
- Fusible link
- H-fuse (AM2 30A)
- Fuses (EFI 15A, IGN 7.5A)
- SFI main relay
- Fuel pump
- Wiring connections

### 2. CHECK FUEL PRESSURE

(a) Check that the battery voltage is above 12 volts.

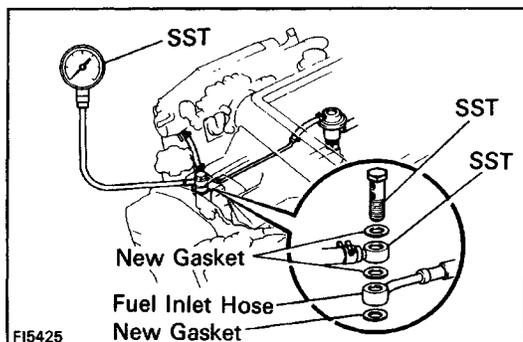
(b) Disconnect the cable from the negative (-) terminal of the battery.

**CAUTION: Work must be started after approx. 20 seconds or longer from the time the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.**



(c) Remove the union bolt and two gaskets, and disconnect the fuel inlet hose from the delivery pipe.  
HINT:

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

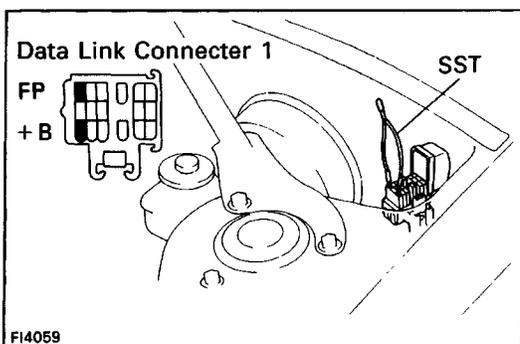


(d) Install the fuel inlet hose and SST (pressure gauge) to the delivery pipe with three new gaskets and SST (union bolt).

SST 09268-45012

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

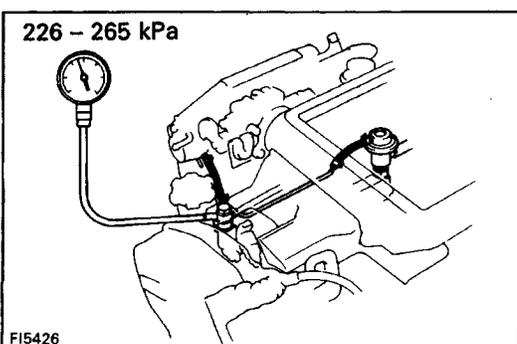
(e) Wipe off any splattered gasoline.



(f) Using SST, connect terminals +B and FP of the data link connector 1.

SST 09843-18020

(g) Reconnect the battery negative (-) cable.



(h) Turn the ignition switch ON.

(i) Measure the fuel pressure.

**Fuel pressure: 226 - 265 kPa**

**(2.3 - 2.7 kgf/cm<sup>2</sup>, 33 - 38 psi)**

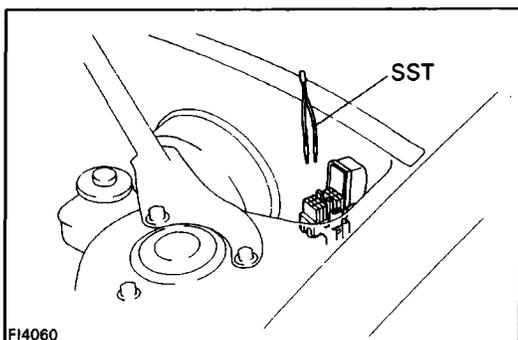
If pressure is high, replace the fuel pressure regulator.

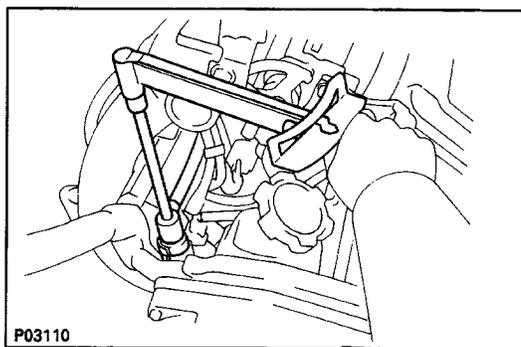
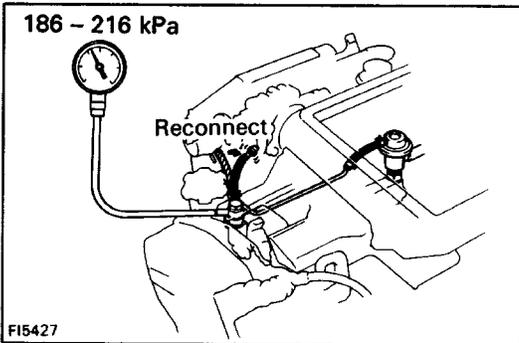
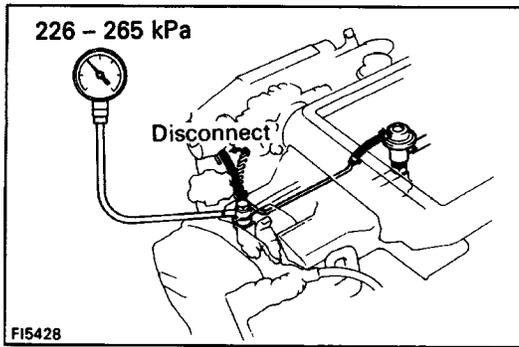
If pressure is low, check the following parts:

- Fuel hoses and connection
- Fuel pump
- Fuel filter
- Fuel pressure regulator

(j) Remove SST.

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: 226 - 265 kPa**  
**(2.3 - 2.7 kgf/cm<sup>2</sup>, 33 - 38 psi)**

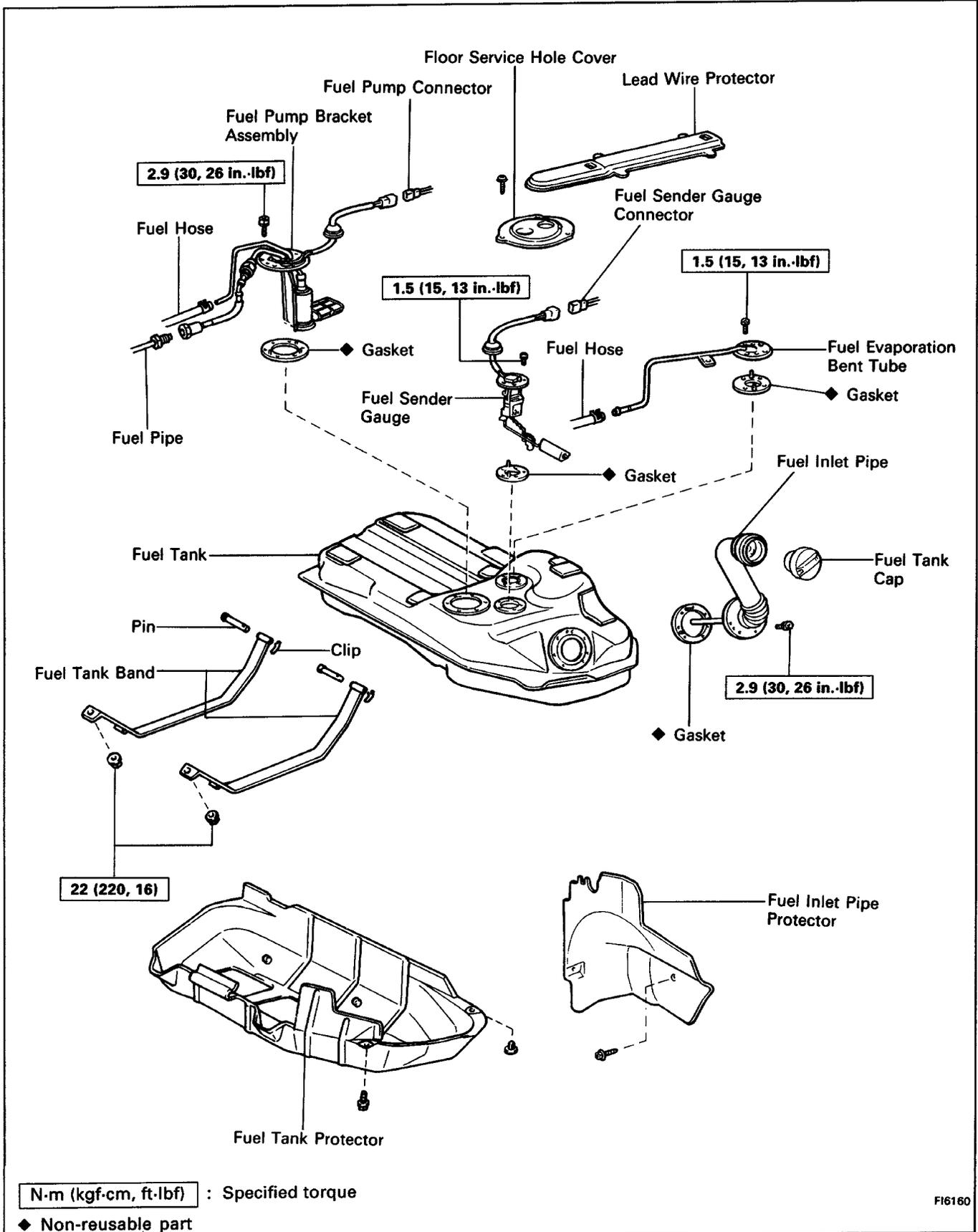
- (n) Reconnect the vacuum sensing hose to the fuel pressure regulator and plug the hose end.
  - (o) Measure the fuel pressure at idle.  
**Fuel pressure: 186 - 216 kPa**  
**(1.9 - 2.2 kgf/cm<sup>2</sup>, 27 - 31 psi)**
- If pressure is not as specified, check the vacuum sensing hose and fuel pressure regulator.
- (p) Stop the engine. Check that the fuel pressure remains 147 kPa (1.5 kgf/cm<sup>2</sup>, 21 psi) or more for 5 minutes after the engine is turned off.
- If pressure is not as specified, check the fuel pump, pressure regulator and/or injector.
- (q) After checking fuel pressure, disconnect the battery negative (-) cable and carefully remove the SST to prevent gasoline from splashing.  
 SST 09268-45012

- (r) Reconnect the fuel inlet hose with two new gaskets and the union bolt.  
**Torque: 29 N-m (300 kgf-cm, 22 ft-lbf)**

- (s) Reconnect the cable to the negative (-) terminal of the battery.
- (t) Check for fuel leakage. (See page FI -10)

# REMOVAL OF FUEL PUMP

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

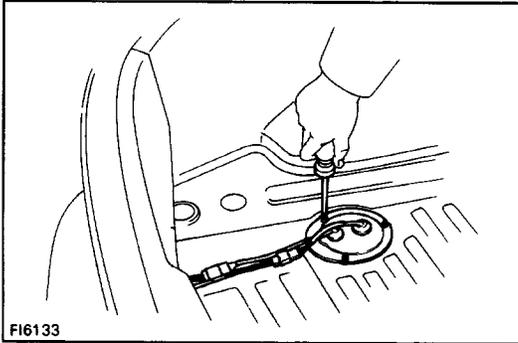


### 1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

**CAUTION:** Work must be started after approx. 20 seconds or longer from the time the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.

### 2. REMOVE FLOOR SERVICE HOLE COVER

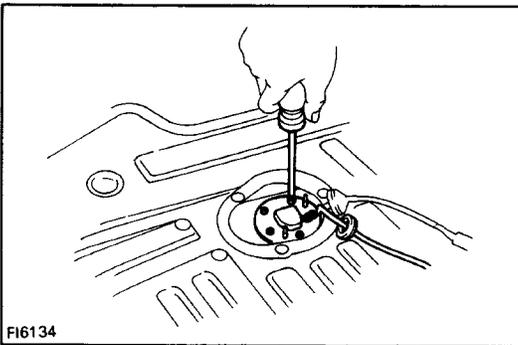
- (a) Remove the lead wire protector.
- (b) Disconnect the fuel pump and fuel sender gauge connectors.
- (c) Remove the three screws and service hole cover.



FI6133

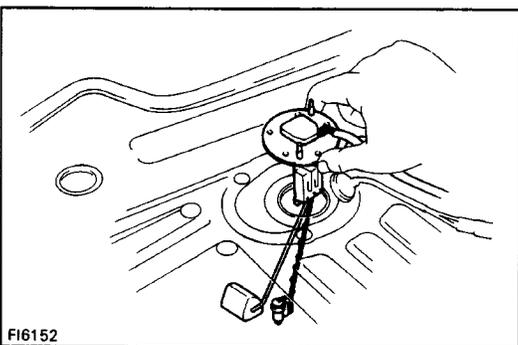
### 3. DRAW OUT FUEL FROM FUEL TANK

- (a) Remove the five screws and fuel sender gauge.
- (b) Remove the gasket from the fuel sender gauge.
- (c) Draw out the fuel from the fuel tank.



FI6134

- (d) Install a new gasket to the fuel sender gauge.
- (e) Insert the sender gauge into the fuel tank.

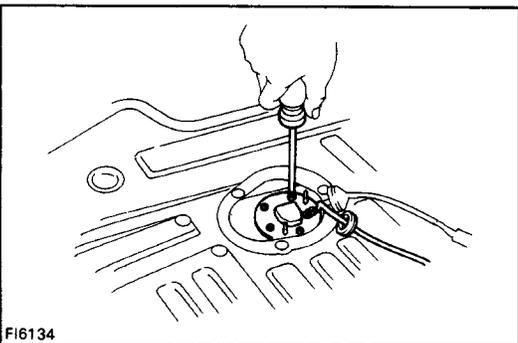


FI6152

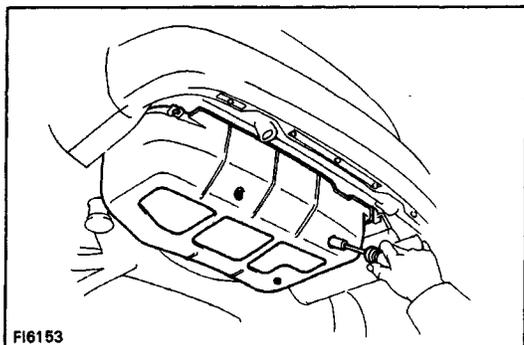
- (f) Reinstall the fuel sender gauge with the five screws.

**Torque: 1.5 N-m (15 kgf-cm, 73 in.-lbf)**

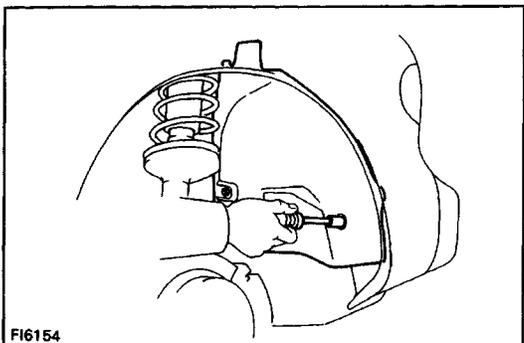
### 4. REMOVE LH REAR WHEEL



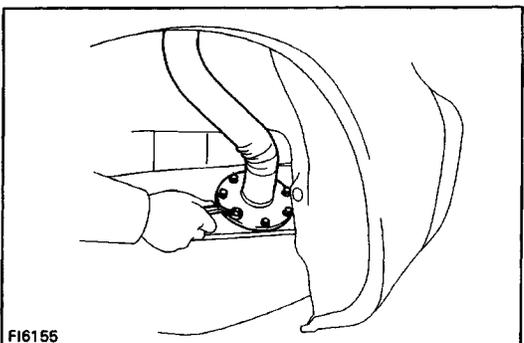
FI6134

**5. REMOVE FUEL TANK PROTECTOR**

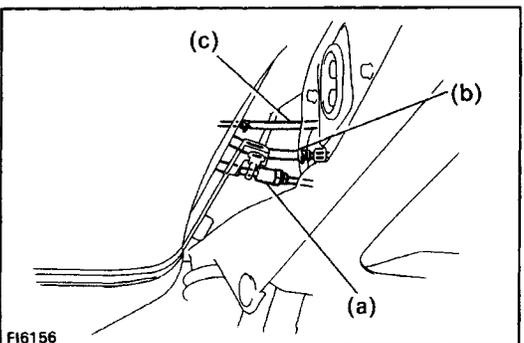
Remove the clip, six bolts and tank protector.

**6. REMOVE FUEL INLET PIPE PROTECTOR**

Remove the two screws and pipe protector.

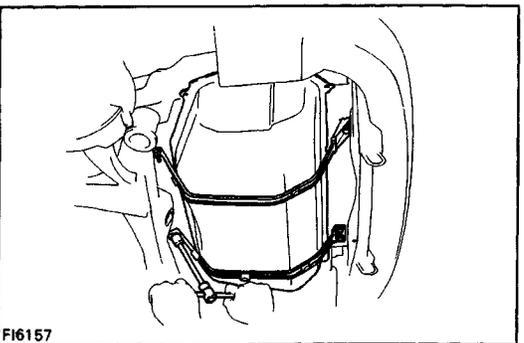
**7. DISCONNECT FUEL INLET PIPE FROM FUEL TANK**

- (a) Remove the seven bolts, and disconnect the inlet pipe.
- (b) Remove the gasket from the inlet pipe.

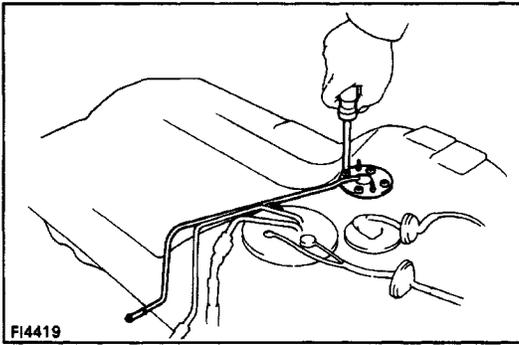
**8. DISCONNECT FUEL HOSES**

**CAUTION:** Remove the fuel filter cap to prevent the fuel from flowing out.

- (a) Fuel outlet hose
- (b) Fuel return hose
- (c) Fuel evaporation bent hose

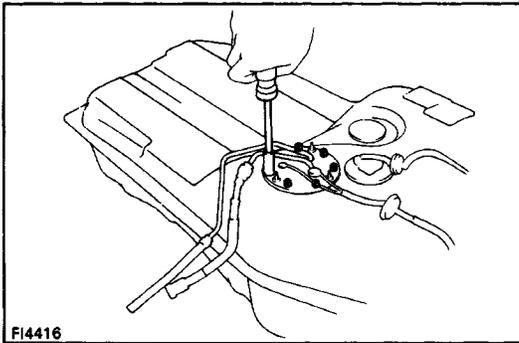
**9. REMOVE FUEL TANK**

- (a) Support the fuel tank with a jack.
- (b) Remove the nut, clip, pin and fuel tank bands. Remove the two tank bands.
- (c) Remove the fuel tank.



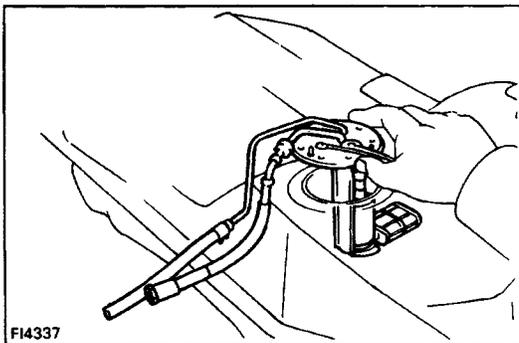
**10. REMOVE FUEL EVAPORATION BENT TUBE**

- (a) Remove the bolt holding the bent tube to the fuel pump bracket.
- (b) Remove the four screws, bent tube and gasket.



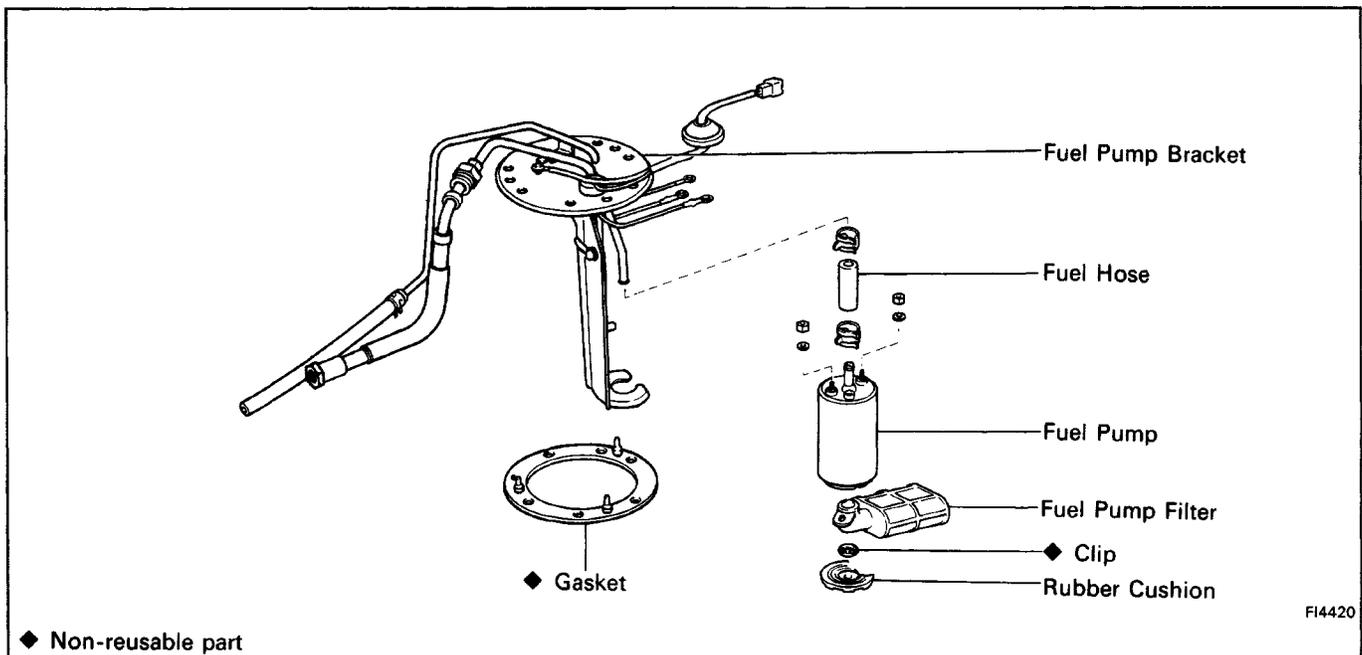
**11. REMOVE FUEL PUMP BRACKET ASSEMBLY FROM FUEL TANK**

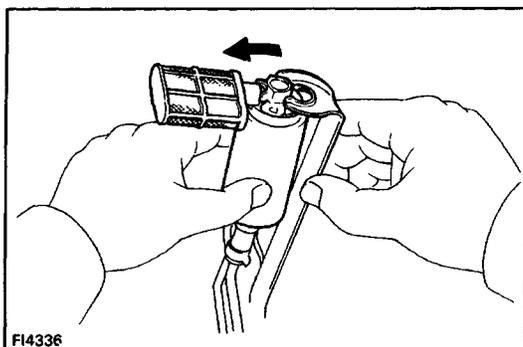
- (a) Remove the six bolts.



- (b) Pull out the pump bracket assembly.
- (c) Remove the gasket from the pump bracket.

**COMPONENTS**





## DISASSEMBLY OF FUEL PUMP

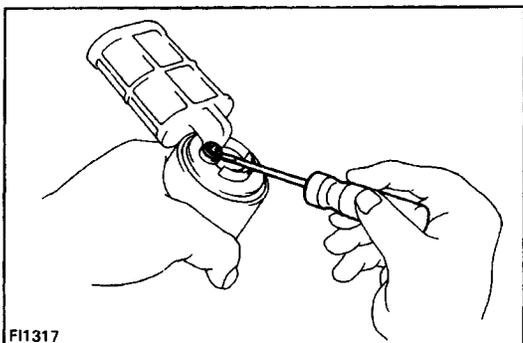
(See page [FI-142](#))

### 1. REMOVE FUEL PUMP FROM FUEL PUMP BRACKET

- (a) Pull out the lower side of the fuel pump from the pump bracket.
- (b) Remove the rubber cushion from the fuel pump.
- (c) Remove the nut and spring washer, and disconnect the lead wire from the fuel pump. Disconnect the three lead wires.
- (d) Disconnect the fuel hose from the fuel pump, and remove 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 OF FUEL PUMP

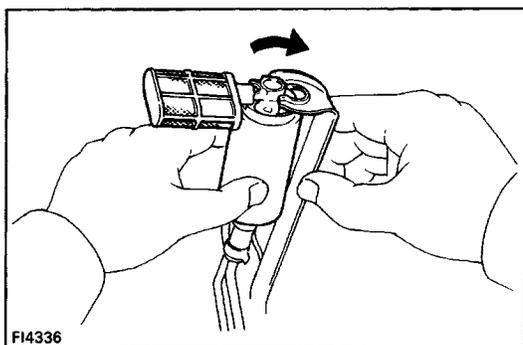
(See page [FI-142](#))

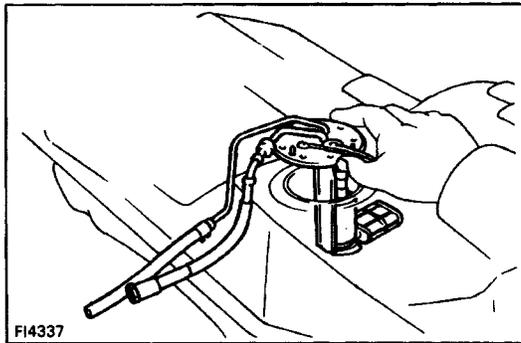
### 1. INSTALL FUEL PUMP FILTER TO FUEL PUMP

install the pump filter with a new clip.

### 2. INSTALL FUEL PUMP TO FUEL PUMP BRACKET

- (a) Connect the fuel hose to the outlet port of the fuel pump.
- (b) Connect the lead wire to the fuel pump with the spring washer and nut. Connect the two lead wires.
- (c) Install the rubber cushion to the fuel pump.
- (d) Install the fuel pump by pushing the lower side of the fuel pump.





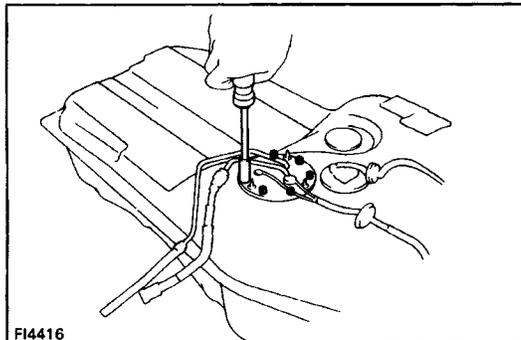
FI4337

## INSTALLATION OF FUEL PUMP

(See page [FI-139](#))

### 1. INSTALL FUEL PUMP BRACKET ASSEMBLY TO FUEL TANK

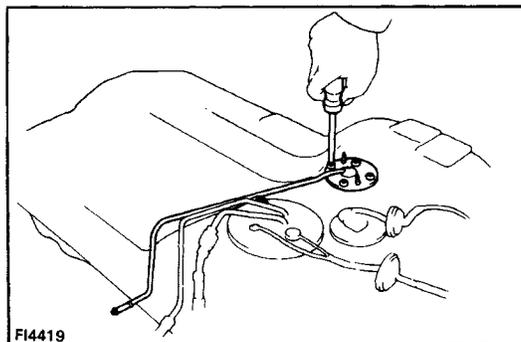
- (a) Install a new gasket to the pump bracket.
- (b) Insert the pump bracket assembly into the fuel tank.



FI4416

- (c) Install the pump bracket with the six bolts.

**Torque: 2.9 N-m (30 kgf-cm, 26 in.lbf)**



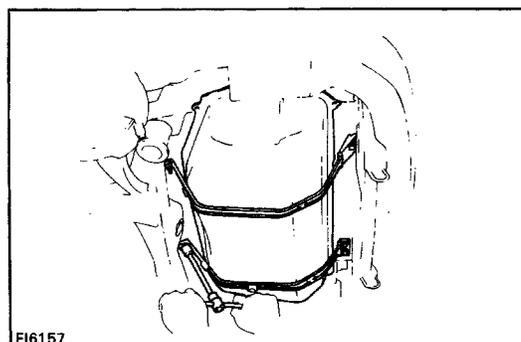
FI4419

### 2. INSTALL FUEL EVAPORATION BENT TUBE

- (a) Install a new gasket to the bent tube.
- (b) Install the bent tube with the four screws.
- (c) Install the bolt holding the bent tube to the fuel pump bracket.

**Torque: 1.5 N-m (15 kgf-cm, 13 in.-lbf)**

**Torque: 2.9 N-m (30 kgf-cm, 26 in.-lbf)**

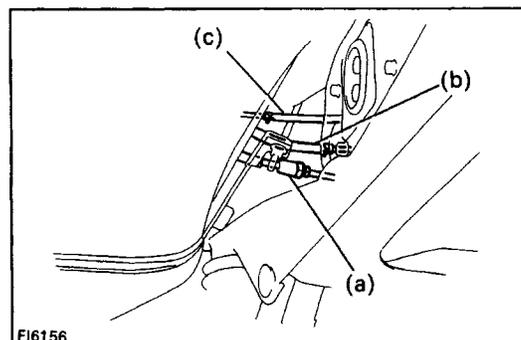


FI6157

### 3. INSTALL FUEL TANK

- (a) Attach the fuel tank to the body.
- (b) Install the fuel tank band with the pin, clip and nut.  
Install the two tank bands.

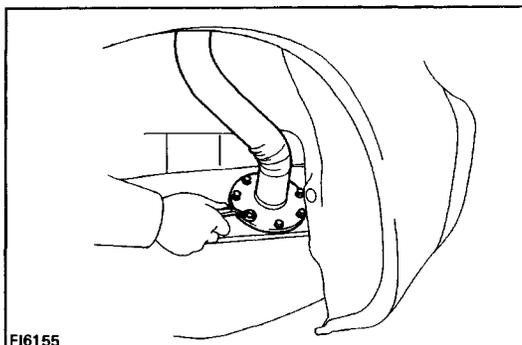
**Torque: 22 N-m (220 kgf-cm, 16 ft-lbf)**



FI6156

### 4. CONNECT FUEL HOSES

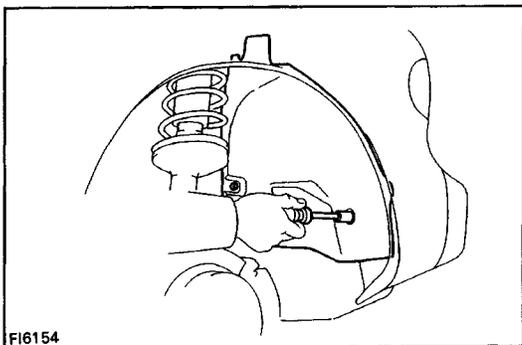
- (a) Fuel outlet hose  
**Torque (See page [FI-9](#)):**  
**30 N-m (310 kgf-cm, 22 ft-lbf)**
- (b) Fuel return hose
- (c) Fuel evaporation bent hose



FI6155

### 5. INSTALL FUEL INLET PIPE

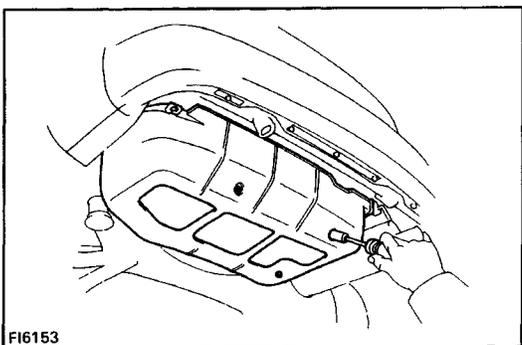
- (a) Install a new gasket to the inlet pipe.
  - (b) Install the inlet pipe with the seven bolts.
- Torque: 2.9 N-m (30 kgf-cm, 26 in-lbf)**



FI6154

### 6. INSTALL FUEL INLET PIPE PROTECTOR

- (a) Attach the pipe protector to the body.
- (b) Install the pipe protector with the two screws.

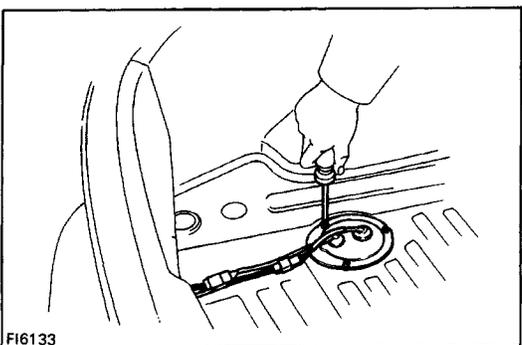


FI6153

### 7. INSTALL FUEL TANK PROTECTOR

- (a) Attach the tank protector to the body.
- (b) Install the tank protector with the clip and six bolts.

### 8. INSTALL LH REAR WHEEL



FI6133

### 9. INSTALL FLOOR SERVICE HOLE COVER

- (a) Run the lead wires of the fuel pump and sender gauge through the holes in the service hole cover.
- (b) Install the service hole cover with the three screws.
- (c) Install the lead wire protector.

### 10. FILL WITH FUEL

### 11. CHECK FOR FUEL LEAKAGE (See page [FI-10](#))

### 12. CONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY