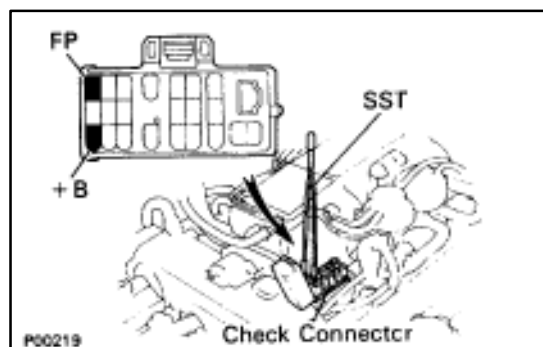
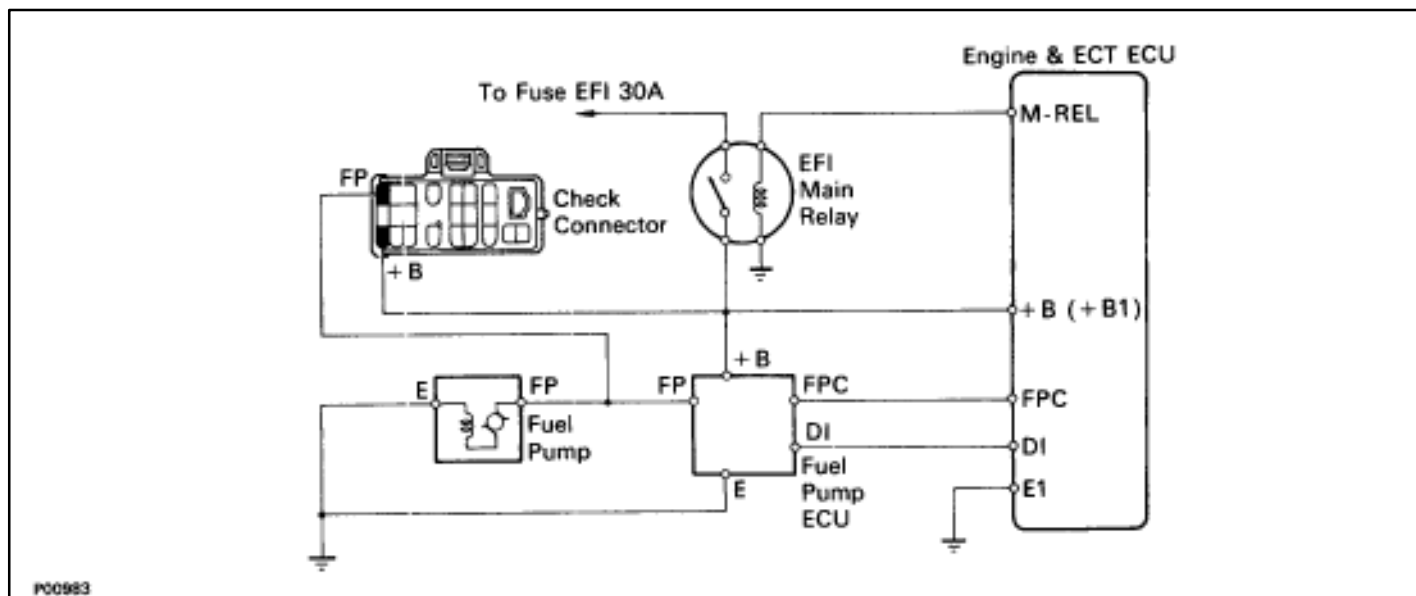


FUEL SYSTEM

Fuel Pump



ON-VEHICLE INSPECTION

1. CHECK FUEL PUMP OPERATION

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

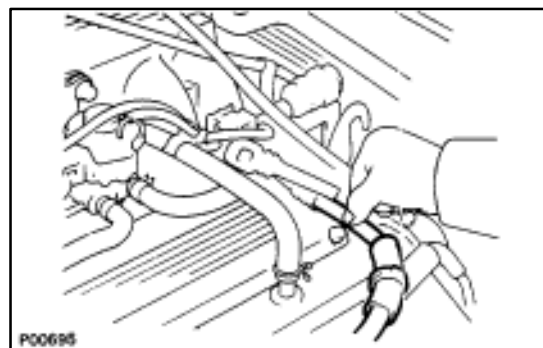
SST 09843-18020

- (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.

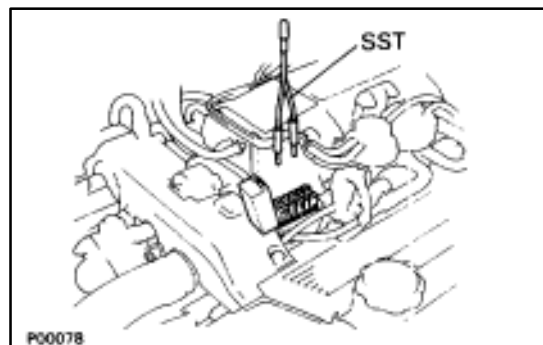
HINT: At this time, you will hear fuel return noise.



- (d) Turn the ignition switch OFF.

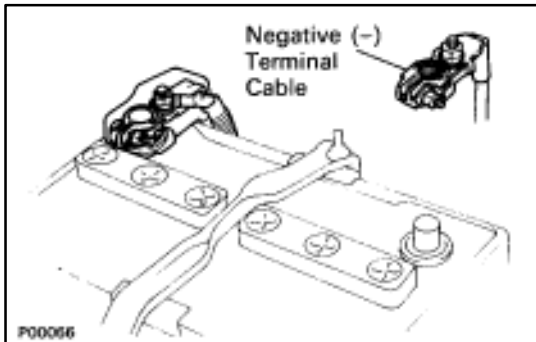
- (e) Remove SST from the check connector.

SST 09843-18020



If there is no pressure, check the following parts:

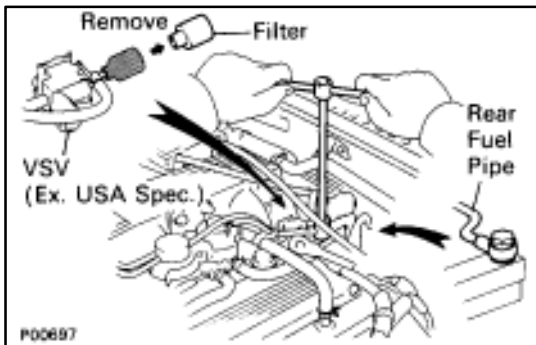
- Fuses
- EFI main relay
- Fuel pump ECU
- Fuel pump
- Engine & ECT ECU
- Wiring connections



2. CHECK FUEL PRESSURE

- Check the battery voltage above 12 volts.
- Disconnect the cable from the negative (-) terminal of the battery.

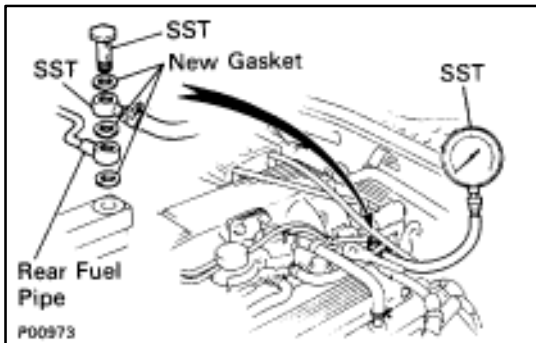
CAUTION: Work must be started after approx. 20 seconds or longer from the time the ignition switch is turned to the "LOCK" position and negative (-) terminal cable is disconnected from the battery.



- (Exc. USA Spec.) Remove the filter from the VSV (for EGR system).
- Remove the union bolt holding the LH deliver pipe to the rear fuel pipe. Remove the two gaskets.

HINT:

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

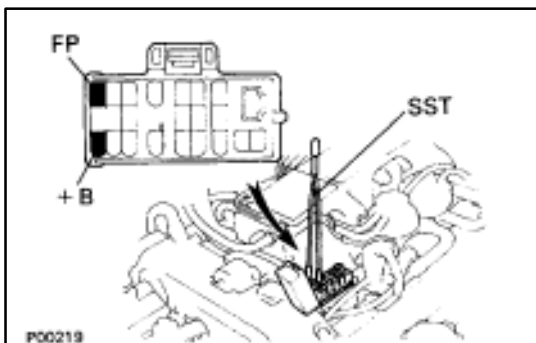


- Install the rear fuel pipe and SST (pressure gauge) to the LH delivery pipe with three new gaskets and the union bolt.

SST 09268-45012

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

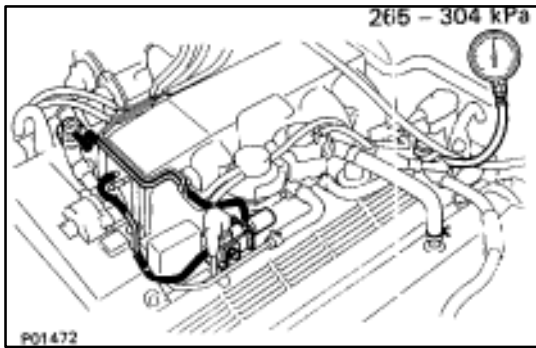
- Wipe off any splattered gasoline.
- (Exc. USA Spec.) Reinstall the filter to the VSV.



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

SST 09843-18020

- Reconnect the cable to the negative (-) terminal of the battery.



(j) Turn the ignition switch ON.

(k) Measure the fuel pressure.

Fuel pressure: 265–304 kPa

(2.7–3.1 kgf/cm², 38–44 psi)

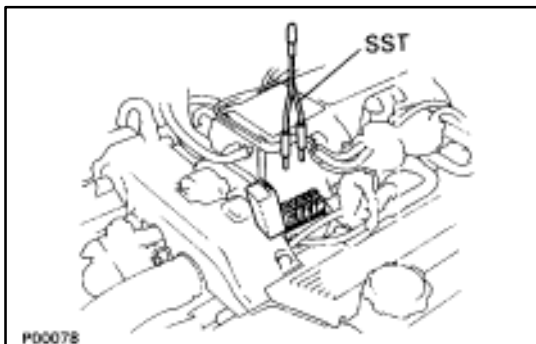
If pressure is high, replace the fuel pressure regulator.

If pressure is low, check the following parts:

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

(l) Remove SST from the check connector.

SST 09843–18020



(m) Start the engine.

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

(o) Measure the fuel pressure at idling.

Fuel pressure: 265–304 kPa

(2.7–3.1 kgf/cm², 38–44 psi)

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

(q) Measure the fuel pressure at idling.

Fuel pressure: 196–235 kPa

(2.0–2.4 kgf/cm², 28–34 psi)

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

(r) Stop the engine. Check that the fuel pressure remains 147 kPa (1.5 kgf/cm², 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 injectors.

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

SST 09268–45012

(t) Connect the rear fuel pipe to the delivery pipe with two new gaskets and the union bolt.

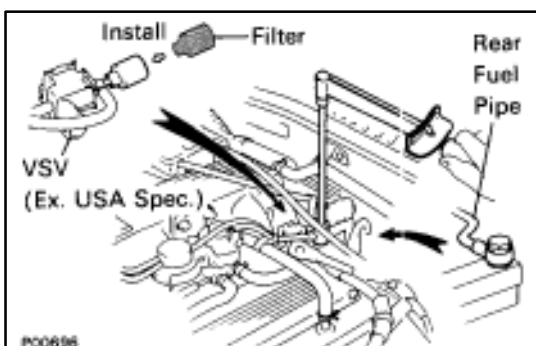
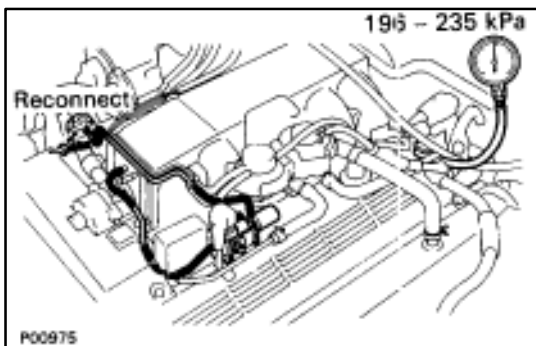
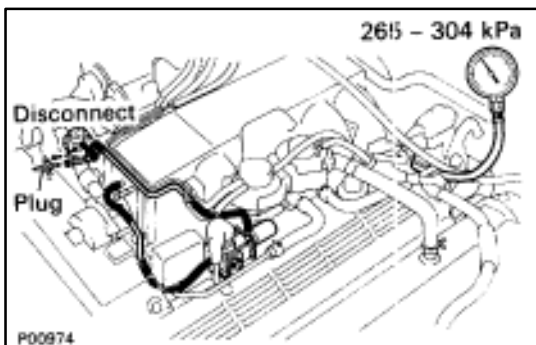
Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

(u) (Exc. USA spec.)

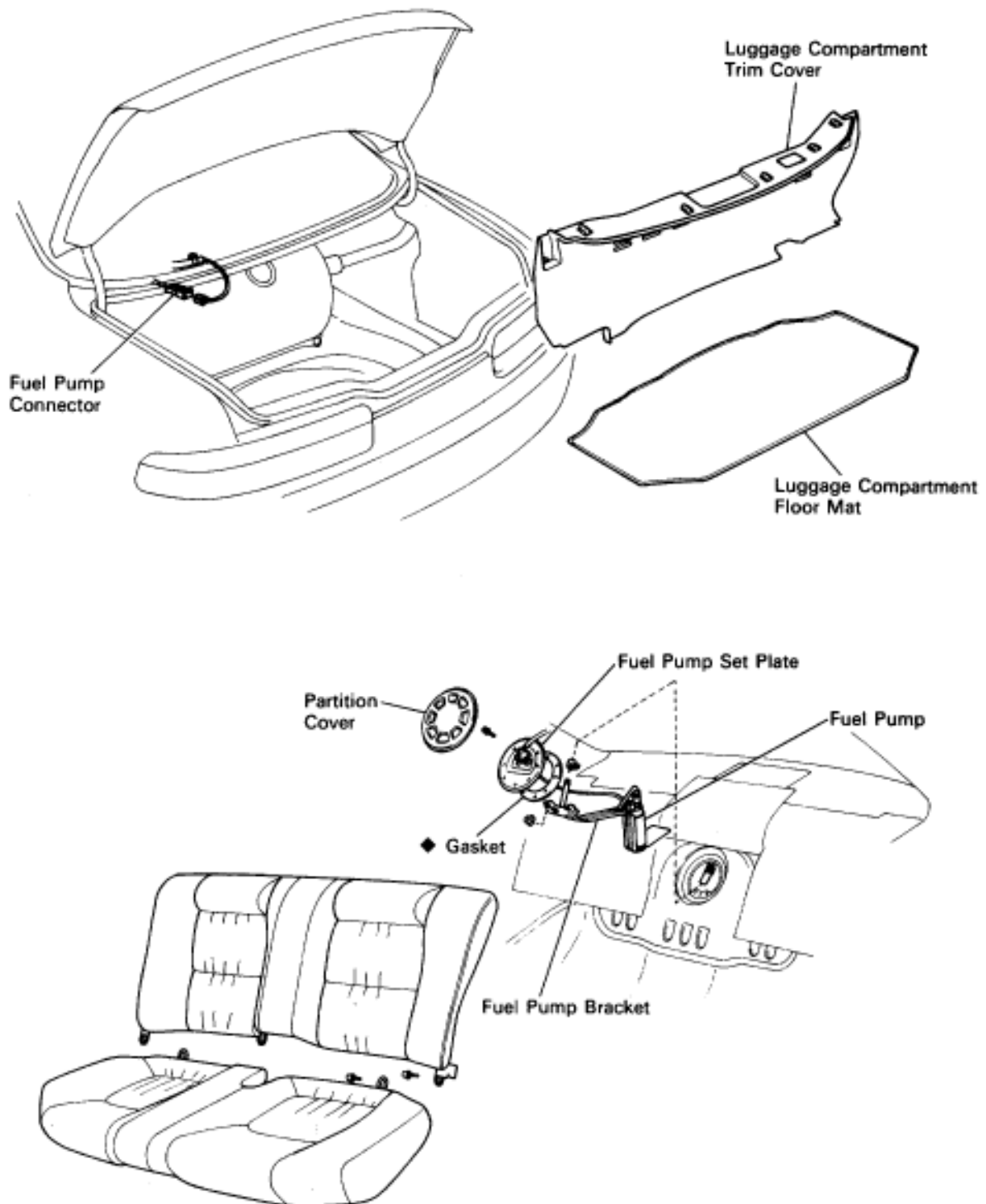
Reinstall the filter to the VSV.

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

(w) Check for fuel leaks. (See page [FI-16](#))

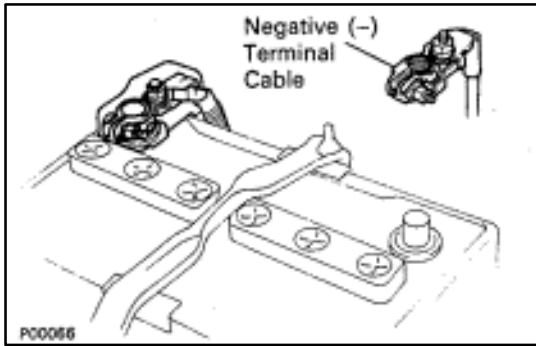


COMPONENTS FOR REMOVAL AND INSTALLATION



N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part



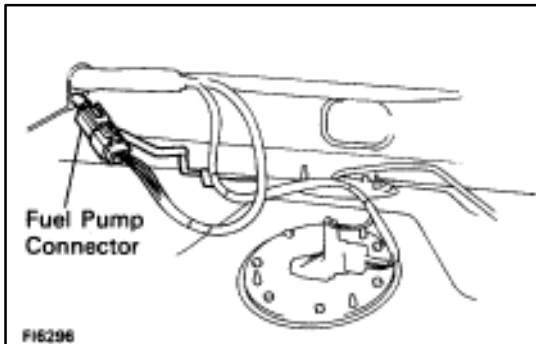
REMOVAL OF FUEL PUMP

(See Components on page [FI-20](#))

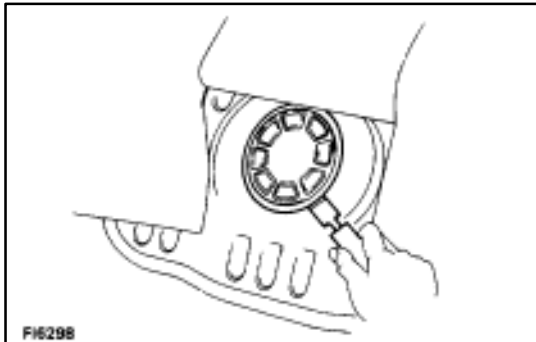
CAUTION: Do not smoke or work near an open flame when working on the fuel pump.

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 negative (-) terminal cable is disconnected from the battery.

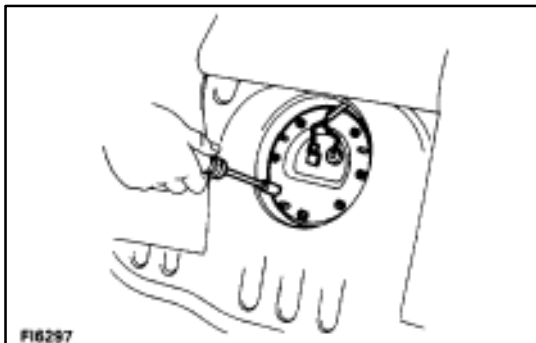


2. **REMOVE LUGGAGE COMPARTMENT FLOOR MAT**
3. **REMOVE SPARE TIRE**
4. **REMOVE LUGGAGE COMPARTMENT TRIM COVER**
5. **DISCONNECT FUEL PUMP CONNECTOR**
6. **REMOVE SEAT CUSHION AND BACK**



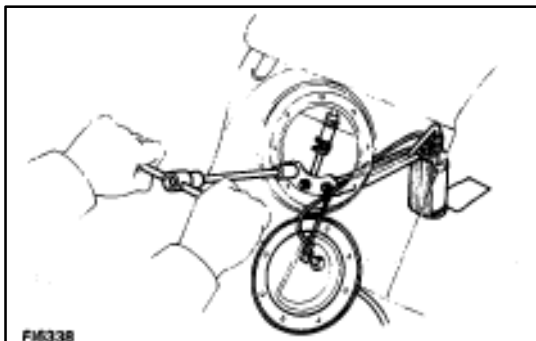
7. **REMOVE PARTITION COVER**

Using a scraper, pry out the partition cover.

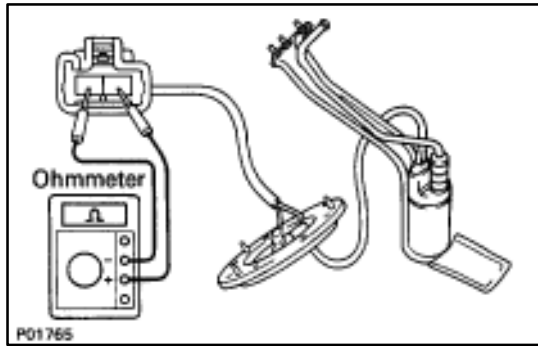


8. **REMOVE FUEL PUMP**

(a) Remove the eight bolts, and disconnect the fuel pump set plate from the fuel tank.



- (b) Remove the three nuts, and disconnect the fuel pump bracket from the fuel tank.
- (c) Disconnect the fuel hose from the fuel pump bracket, and remove the fuel pump, bracket and set plate assembly.



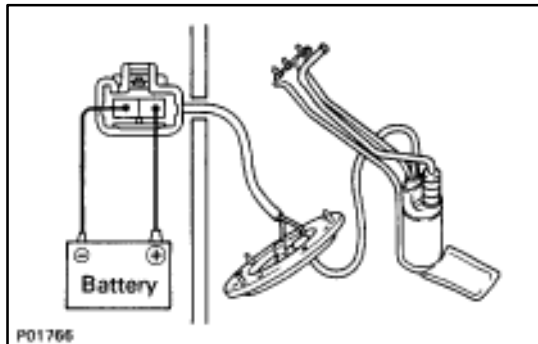
INSPECTION OF FUEL PUMP

1. INSPECT FUEL PUMP RESISTANCE

Using an ohmmeter, measure the resistance between the terminals.

Resistance: 0.2–3.0 Ω

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



2. INSPECT FUEL PUMP OPERATION

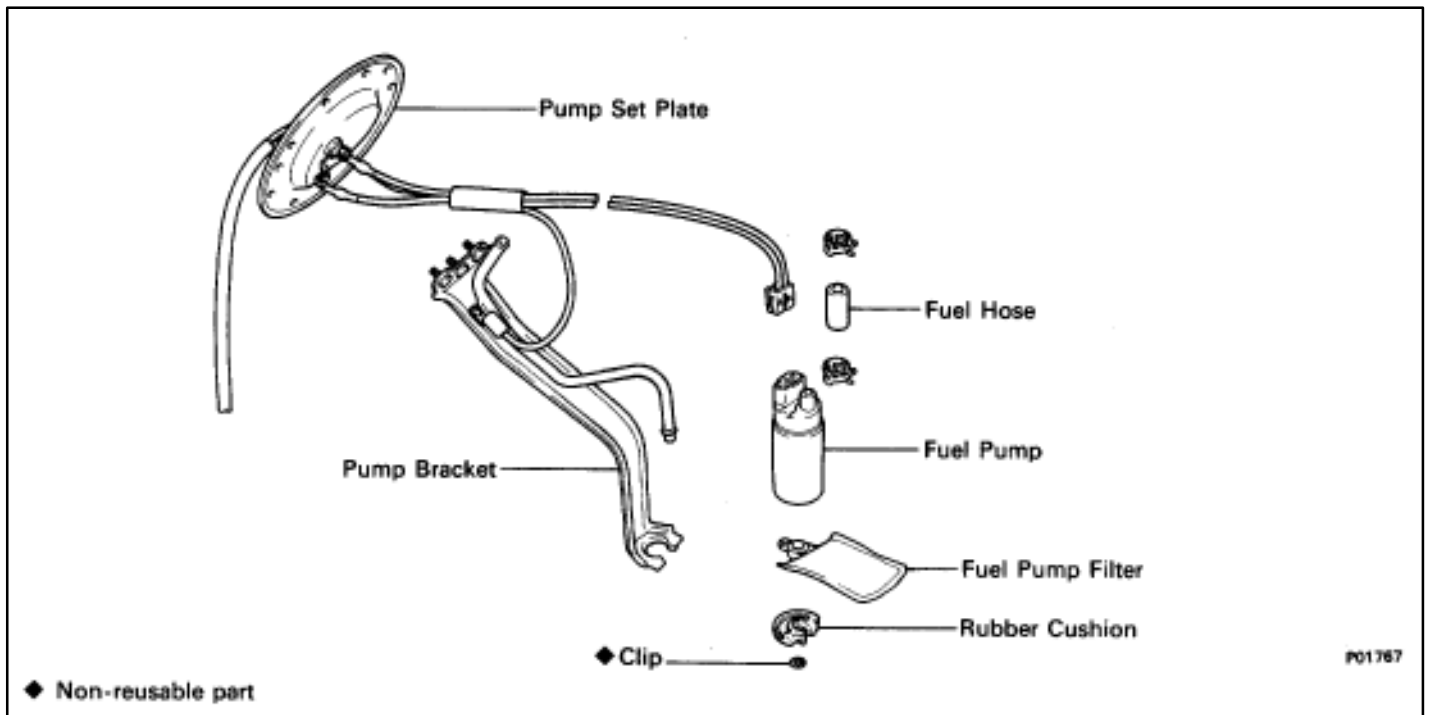
Connect the positive (+) lead from the battery to terminal 1 of the connector, and the negative (–) lead to terminal 2. Check that the fuel pump operates.

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 and/or set plate.

COMPONENTS FOR DISASSEMBLY AND ASSEMBLY

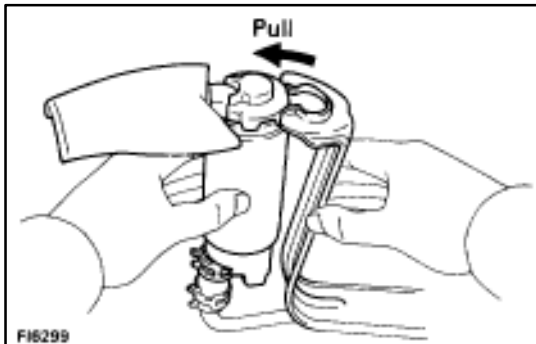


DISASSEMBLY OF FUEL PUMP

(See Components on page [FI-22](#))

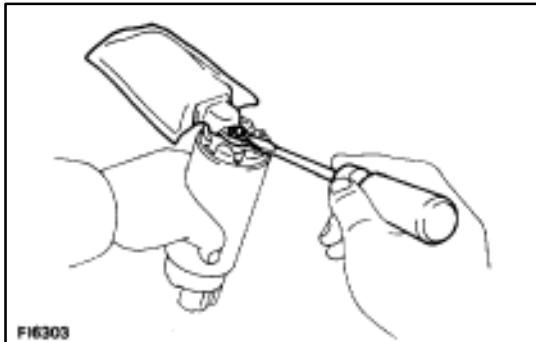
1. REMOVE PUMP SET PLATE FROM FUEL PUMP

Disconnect the lead connector from the fuel pump, and remove the set plate.



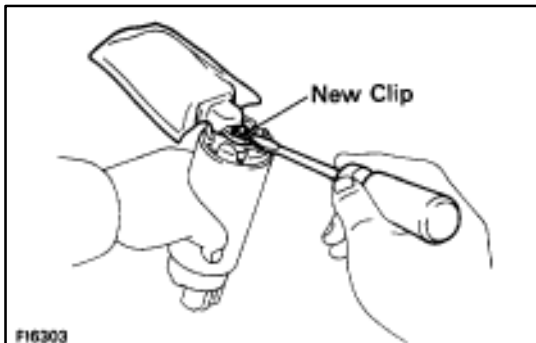
2. REMOVE FUEL PUMP FROM PUMP BRACKET

- Pull out the lower side of the fuel pump from the pump bracket.
- Remove the rubber cushion from the fuel pump.
- Disconnect the fuel hose from the fuel pump, and remove the fuel pump.



3. REMOVE FUEL PUMP FILTER FROM FUEL PUMP

- Using a small screwdriver, remove the clip.
- Pull out the pump filter.

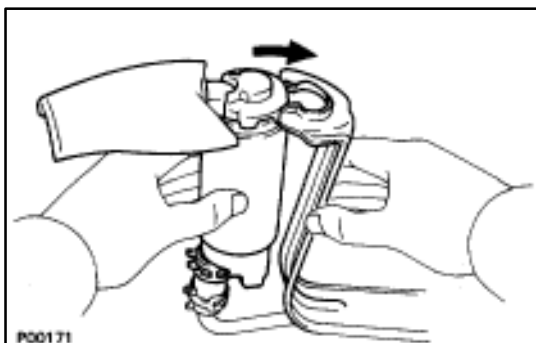


ASSEMBLY OF FUEL PUMP

(See Components on page [FI-22](#))

1. INSTALL FUEL PUMP FILTER TO FUEL PUMP

Install the pump filter with a new clip.

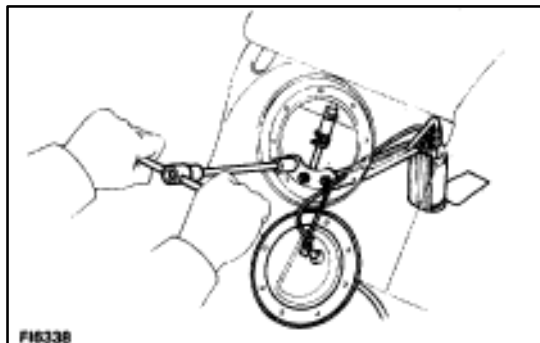


2. INSTALL FUEL PUMP TO FUEL PUMP BRACKET

- Connect the fuel hose to the outlet port of the fuel pump.
- Install the rubber cushion to the fuel pump.
- Install the fuel pump by pushing the lower side of the fuel pump.

3. INSTALL PUMP SET PLATE TO FUEL PUMP

Connect the lead connector on the set plate to the fuel pump.



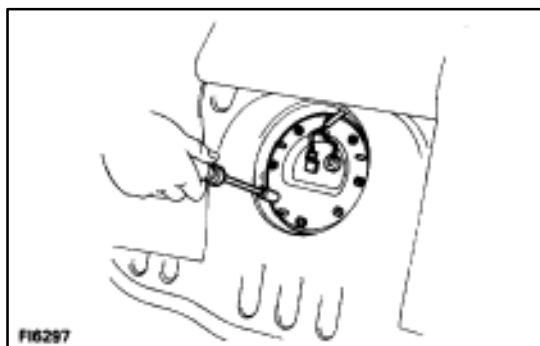
INSTALLATION OF FUEL PUMP

(See Components on page [FI-20](#))

1. INSTALL FUEL PUMP

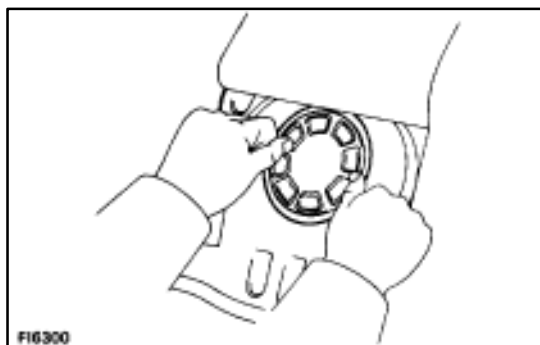
- (a) Install a new gasket to the pump set plate.
- (b) Connect the fuel hose to the fuel pump bracket, and install the fuel pump and bracket assembly with the three nuts.

Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)



- (b) Install the fuel pump set plate with the eight bolts.

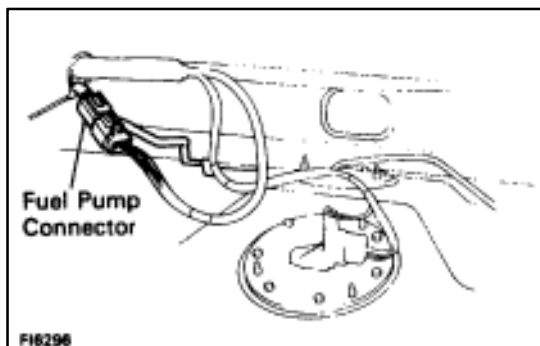
Torque: 3.9 N·m (40 kgf·cm, 35 in·lbf)



2. INSTALL PARTITION COVER

Install the partition cover with butyl tape.

3. INSTALL SEAT BACK AND CUSHION



4. CONNECT FUEL PUMP CONNECTOR

5. INSTALL LUGGAGE COMPARTMENT TRIM COVER

6. INSTALL SPARE TIRE

7. INSTALL LUGGAGE COMPARTMENT FLOOR MAT

8. CONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY

9. START ENGINE, AND CHECK FOR FUEL LEAKS