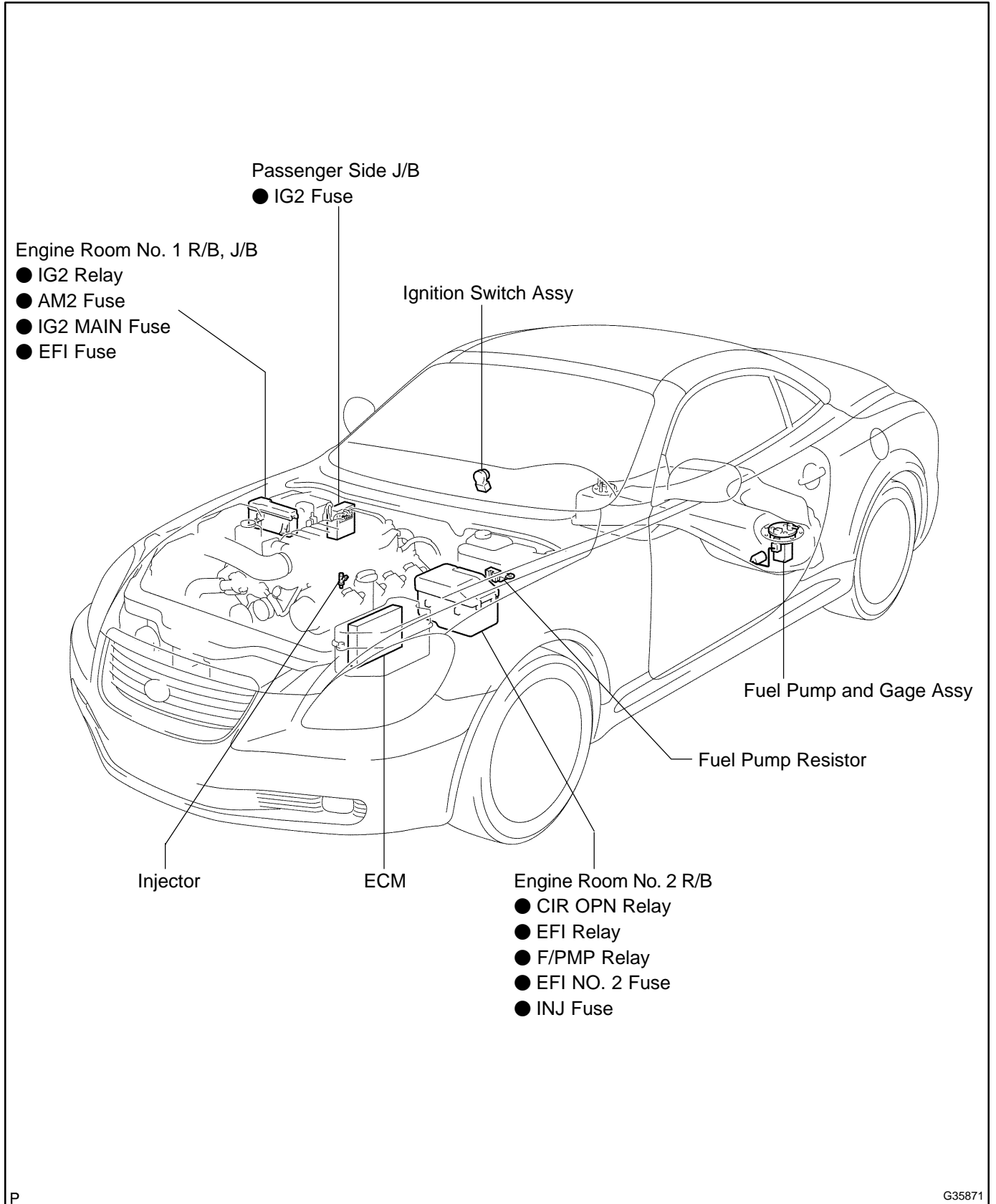
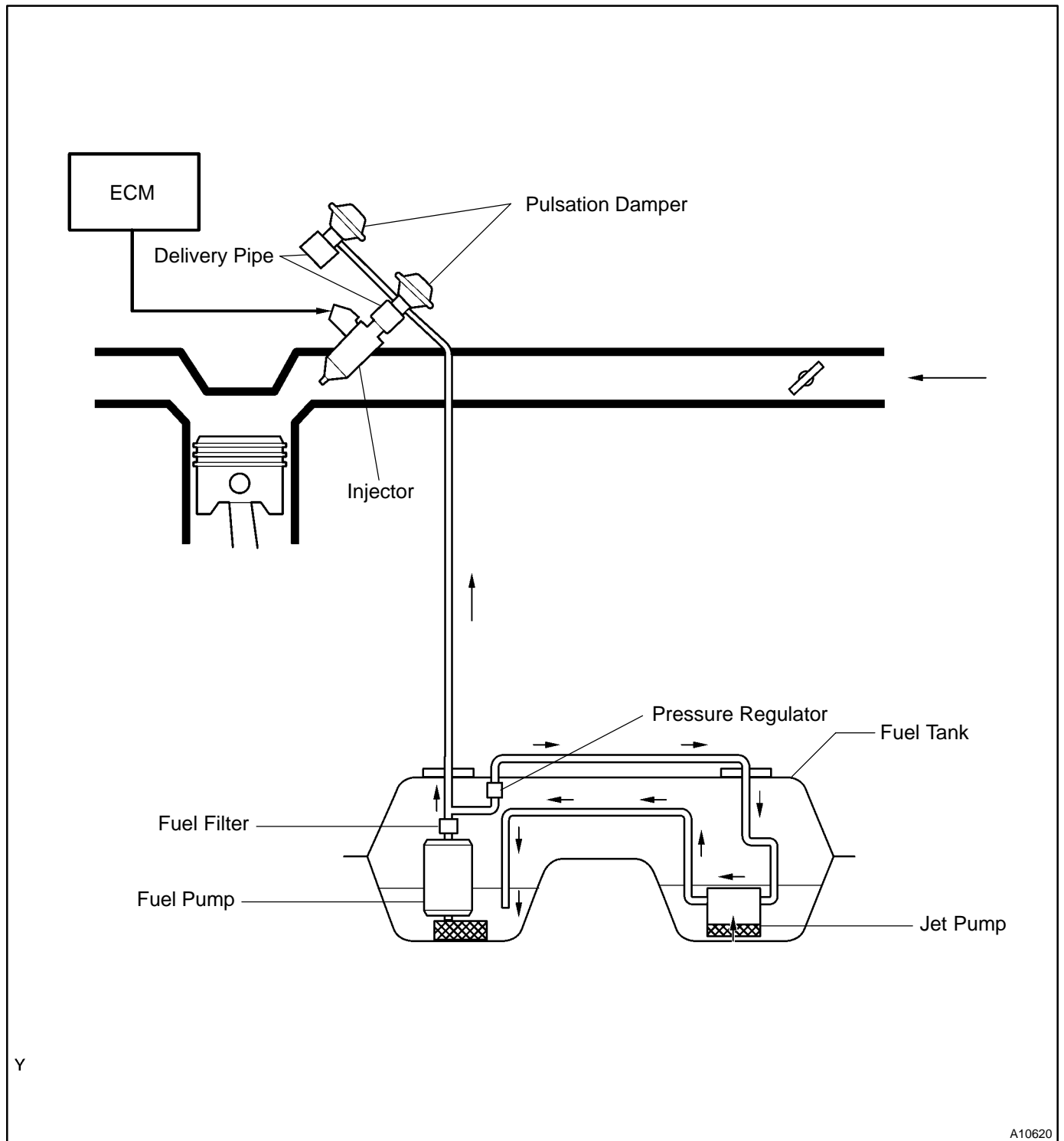


FUEL SYSTEM LOCATION

11188-01



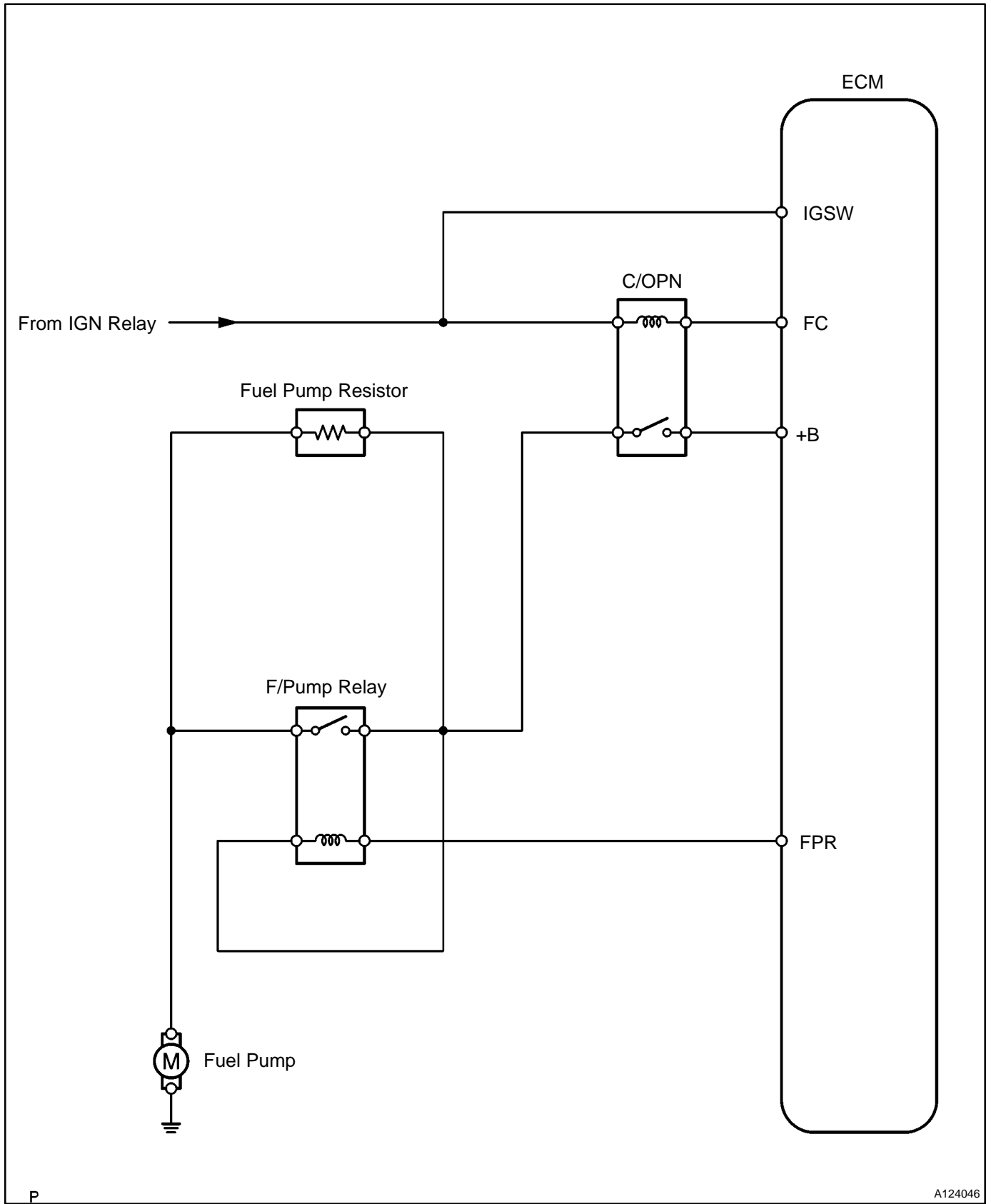
SYSTEM DIAGRAM



Y

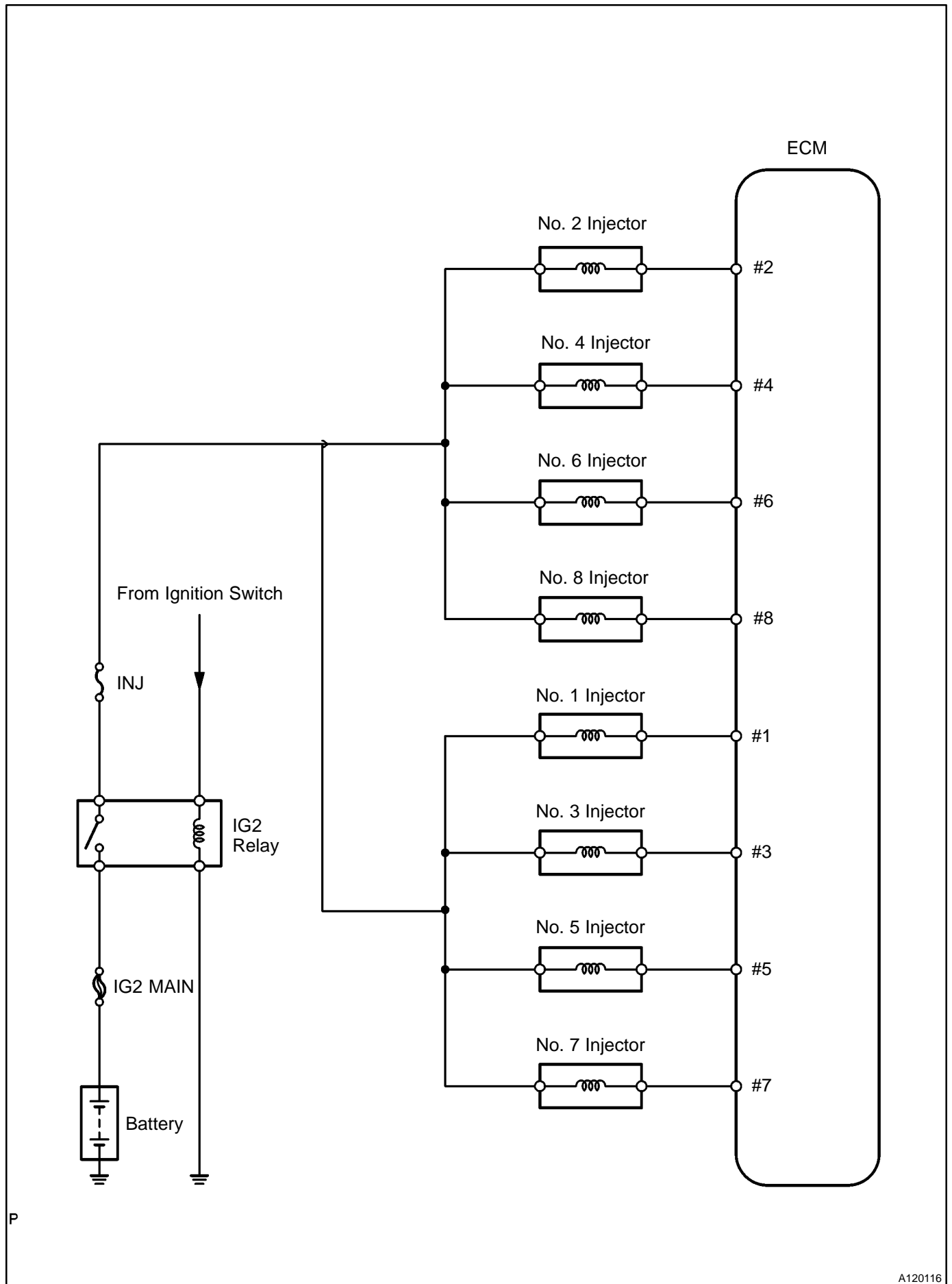
A10620

The fuel system is controlled by the ECM based on signals from various sensors.



P

A124046

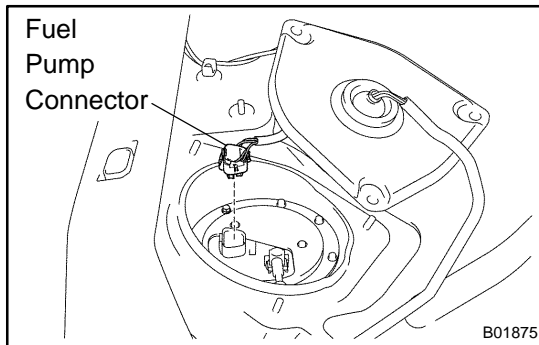


P

A120116

PRECAUTION

1. BEFORE WORKING ON FUEL SYSTEM, DISCONNECT NEGATIVE TERMINAL CABLE FROM BATTERY
2. DO NOT SMOKE OR WORK NEAR AN OPEN FLAME WHEN WORKING ON FUEL SYSTEM
3. KEEP GASOLINE AWAY FROM RUBBER OR LEATHER PARTS

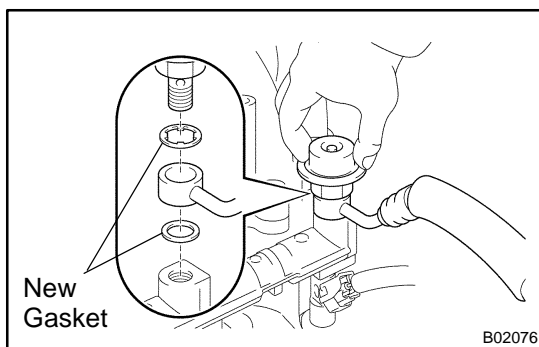


4. DISCHARGE FUEL SYSTEM PRESSURE

- (a) Disconnect the fuel pump connector.
- (b) Start the engine. After the engine has stopped on its own, turn the ignition switch OFF.
- (c) Disconnect the negative (-) terminal cable from the battery.
- (d) Connect the fuel pump connector.

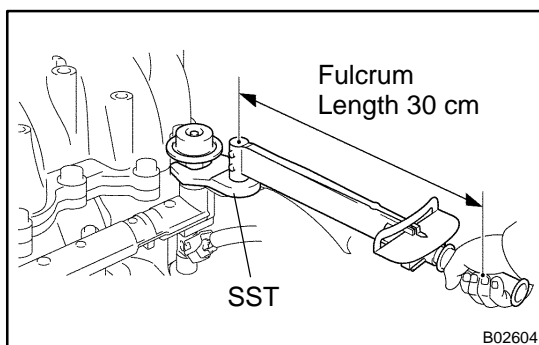
5. FUEL SYSTEM

- (a) When disconnecting the high pressure fuel line, a large amount of gasoline will spill out. Follow these procedures:
 - (1) Perform step (4).
 - (2) Disconnect the fuel tube.
 - (3) Drain the fuel remaining inside the fuel tube.
 - (4) Cover the fuel tube with a plastic bag to protect it from damage and foreign objects.
 - (5) Place a container under the connection.



- (b) When connecting the union bolt (fuel pressure pulsation damper) on the high pressure pipe union, follow these procedures:

- (1) Always use 2 new gaskets.
- (2) Tighten the union bolt with your hands.



- (3) Using SST, tighten the union bolt to the specified torque.

SST 09612-24014 (09617-24011)

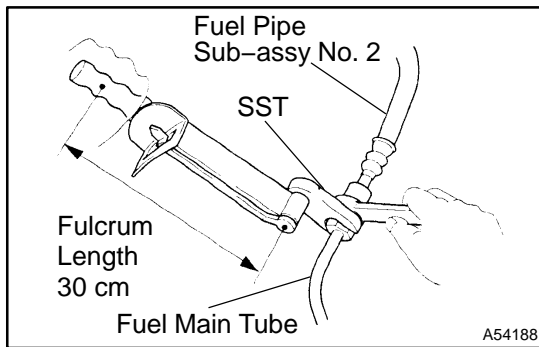
Torque:

39 N·m (397 kgf·cm, 29 ft·lbf)

33 N·m (337 kgf·cm, 24 ft·lbf) for use with SST

HINT:

Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).



- (c) When connecting the flare nut on the high pressure pipe union, follow these procedures:
- (1) Apply a light coat of engine oil to the flare nut, and tighten the flare nut by hand.
 - (2) Using SST, tighten the flare nut to the specified torque.

SST 09023-38401

Torque:

35 N·m (357 kgf·cm, 26 ft·lbf)

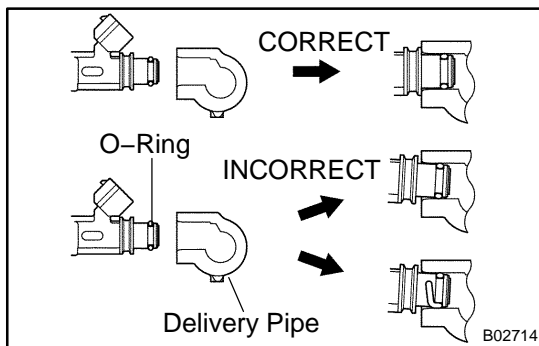
28 N·m (286 kgf·cm, 21 ft·lbf) for use with SST

NOTICE:

Do not rotate the fuel main tube when tightening the flare nut.

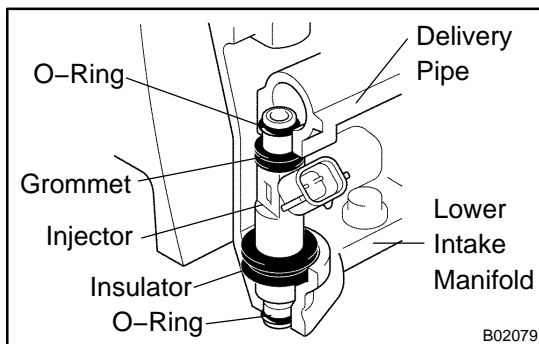
HINT:

Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).



- (d) Follow these precautions when removing and installing the injector.

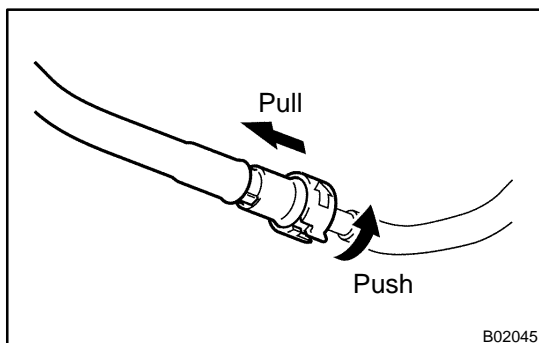
- (1) Never reuse the O-ring.
- (2) When placing a new O-ring on the injector, take care not to damage it.
- (3) Coat a new O-ring with spindle oil or gasoline before installation. Never use engine, gear or brake oil.

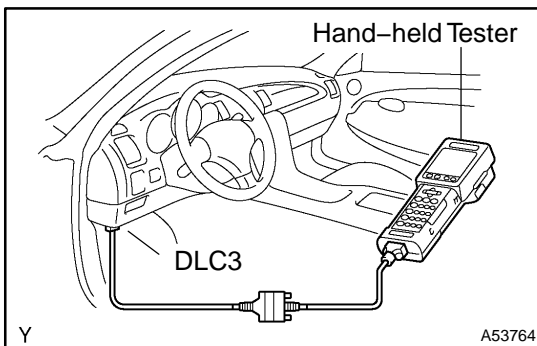
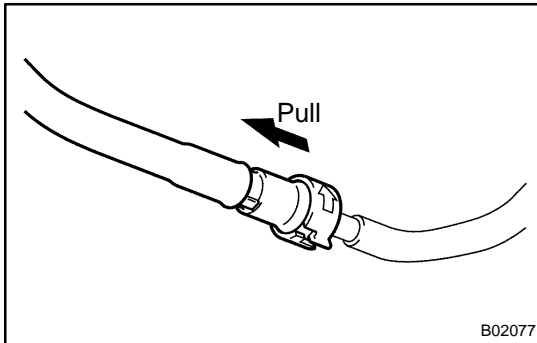
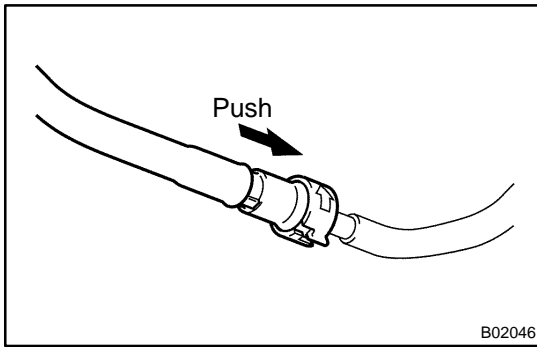


- (e) Install the injector to the delivery pipe and lower intake manifold as shown in the illustration. Before installing the injector, apply spindle oil or gasoline to where the delivery pipe and intake manifold contact the O-ring.

- (f) Follow these precautions when disconnecting the fuel tube connector (quick type):

- (1) Check for dirt and foreign matter in the pipe and around the connector. Clean if necessary and then disconnect the connector.
- (2) Disconnect the connector with your hands.
- (3) If the pipe and connector are stuck together, push and pull the connector until they separate. Do not use tools to separate the pipe and connector.
- (4) Check for dirt and foreign matter on the pipe seal surface. Clean if necessary.
- (5) Put the pipe and connector ends in plastic bags to prevent damage and dirt contamination.





(g) Follow these precautions when connecting the fuel tube connector (quick type):

- (1) Match the axis of the connector with the axis of the pipe, and push in the connector until the connector makes a "click" sound. If the connection is too tight, apply a small amount of new engine oil on the tip of the pipe.
- (2) Check if the pipe and the connector are securely connected by pulling them.

(3) Check that fuel leakage does not occur.

(h) Follow these precautions when handling the nylon tube.

- (1) Do not forcefully twist the nylon tube when connecting it to the quick connector.
- (2) Do not damage the nylon tube.
- (3) Do not remove the EPDM protector covering the nylon tube.
- (4) Do not bend the nylon tube.

6. CHECK FOR FUEL LEAKS

(a) Make sure that there are no fuel leaks after performing maintenance on the fuel system.

- (1) Connect the hand-held tester to the DLC3.
- (2) Turn the ignition switch ON, and push the hand-held tester main switch ON.

NOTICE:

Do not start the engine.

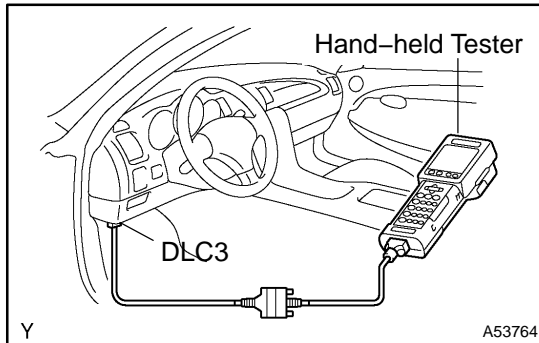
- (3) Select the ACTIVE TEST mode on the hand-held tester.

HINT:

Refer to the hand-held tester operator's manual for further details.

- (4) Check that there are no leaks from the fuel system.
- (5) Turn the ignition switch OFF.
- (6) Disconnect the hand-held tester from the DLC3.

ON-VEHICLE INSPECTION



1. CHECK FUEL PUMP OPERATION AND FOR FUEL LEAKS

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main switch ON.

NOTICE:

Do not start the engine.

- (c) Select the ACTIVE TEST on the hand-held tester.

HINT:

Refer to the hand-held tester operator's manual for further details.

- (d) Check that there is pressure in the fuel inlet hose from the fuel pump.

HINT:

If there is fuel pressure, you will hear the sound of fuel flowing. If there is no pressure, check the fusible link, fuses, CIR OPN relay, EFI MAIN relay, fuel pump assy, ECM and wiring connections.

- (e) Turn the ignition switch OFF.
- (f) Disconnect the hand-held tester from the DLC3.

2. CHECK FUEL PRESSURE

- (a) Check that the battery positive (+) voltage is above 12 V.
- (b) Disconnect the cable from the negative (-) battery terminal.
- (c) Remove the fuel pressure pulsation damper from the RH delivery pipe (see page 11-14).
- (d) Install the rear fuel pipe and SST (pressure gauge) to the delivery pipe with the 3 lower gaskets and SST (union bolt).

SST 09268-45014 (09268-41190, 90405-06167)

Torque: 39 N·m (398 kgf·cm, 29 ft·lbf)

- (e) Clean any spilled gasoline.
- (f) Reconnect the cable to the negative (-) battery terminal.
- (g) Perform steps 1-(a) to (e).
- (h) Measure the fuel pressure.

Fuel pressure:

304 to 343 kPa (3.1 to 3.5 kgf/cm², 44 to 50 psi)

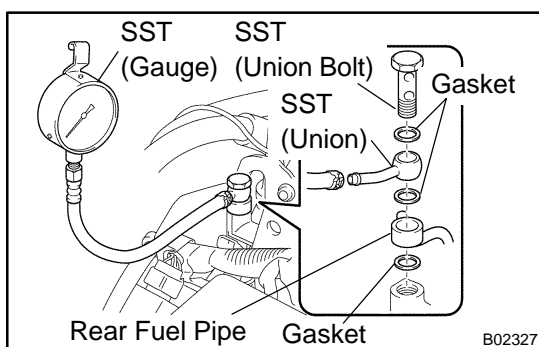
If pressure is high, replace the fuel pressure regulator.

If pressure is low, check the fuel hoses, fuel connections, fuel pump assy, fuel filter and fuel pressure regulator.

- (i) Disconnect the hand-held tester from the DLC3.
- (j) Start the engine.
- (k) Measure the fuel pressure at idle.

Fuel pressure:

304 to 343 kPa (3.1 to 3.5 kgf/cm², 44 to 50 psi)

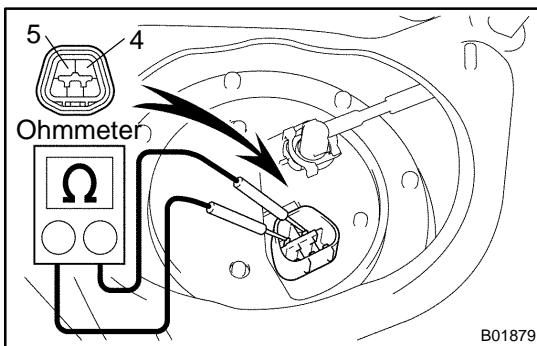


- (l) Stop the engine.
- (m) Check that the fuel pressure remains as specified for 5 minutes after the engine has stopped.

Fuel pressure: 147 kPa (1.5 kgf/cm², 21 psi) or more

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

- (n) After checking the fuel pressure, disconnect the cable from the negative (-) battery terminal and carefully remove SST to prevent gasoline from spilling.
SST 09268-45014
- (o) Reinstall the fuel pressure pulsation damper to the RH delivery pipe (see page 11-14).
- (p) Reconnect the cable to the negative (-) battery terminal.
- (q) Check that fuel leakage does not occur.

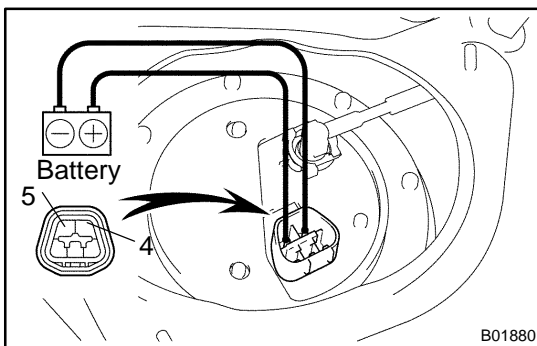


3. INSPECT FUEL PUMP ASSY

- (a) Remove the rear seat cushion.
- (b) Remove the 3 cap nuts and floor service hole cover.
- (c) Disconnect the fuel pump & sender gauge connector.
- (d) Using an ohmmeter, measure the resistance between terminals 4 and 5.

Standard: 0.2 to 3.0 Ω at 20°C (68°F)

If the result is not as specified, replace the fuel pump assy.



- (e) Inspect the operation of the fuel pump.
Connect the battery's positive (+) lead to terminal 4 of the connector, and the negative (-) lead to terminal 5. Check that the fuel pump operates.

NOTICE:

- **These tests must be performed within 10 seconds to prevent the coil from burning out.**
- **Keep the fuel pump as far away from the battery as possible.**
- **Always turn on and off the voltage on the battery side, not the fuel pump side.**

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

- (f) Reconnect the fuel pump & sender gauge connector.
- (g) Reinstall the floor service hole cover with the cap nuts.
- (h) Reinstall the rear seat cushion.

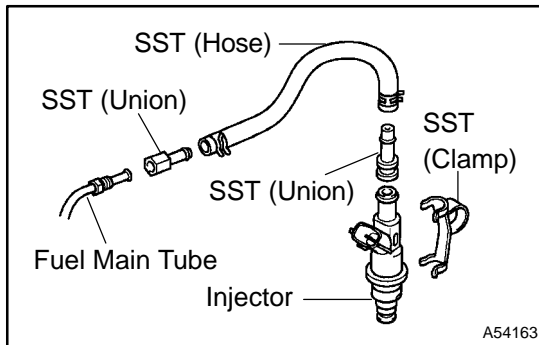
INSPECTION

1. INSPECT FUEL INJECTOR ASSY

- (a) Inspect the resistance of the injector.
Using an ohmmeter, measure the resistance between the terminals.

Standard: 13.4 to 14.2 Ω at 20°C (68°F)

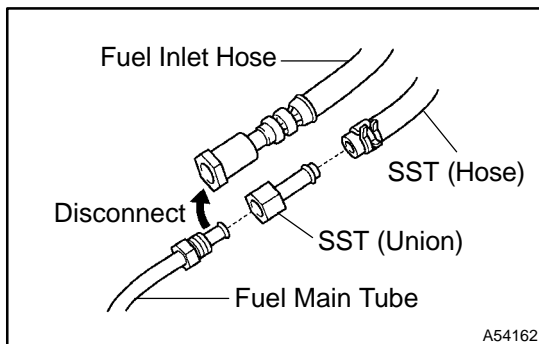
If the result is not as specified, replace the injector assy.



- (b) Inspect the injector injection.

CAUTION:

Keep the injector from sparks during the test.

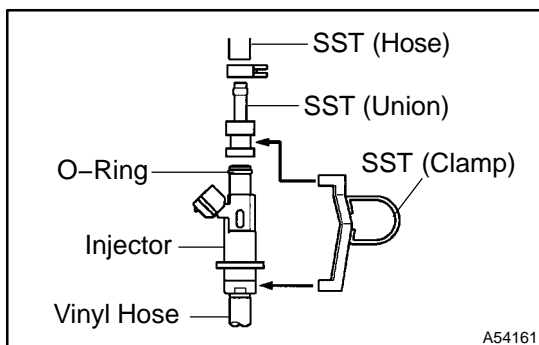


- (c) Disconnect the fuel inlet hose (rear fuel pipe) from the fuel main tube.

- (d) Temporarily install SST (union) to the fuel main tube.
SST 09268-41047 (09268-52011)

- (e) Tighten the flare nut on the fuel main tube (see page 11-5).

- (f) Connect SST (hose) to the SST (union).
SST 09268-41047



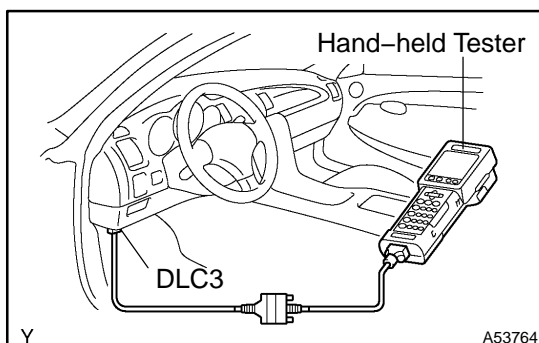
- (g) Install the O-ring to the injector.

- (h) Connect SST (union and hose) to the injector, and hold the injector and union with SST (clamp).
SST 09268-41047 (09268-41110, 09268-41300)

- (i) Put the injector into a graduated cylinder.

CAUTION:

Install a suitable vinyl hose onto the injector to prevent gasoline from spraying.



- (j) Connect the hand-held tester to the DLC3.

- (k) Connect the battery negative (-) cable to the battery.

- (l) Turn the ignition switch ON, and push the hand-held tester main switch ON.

NOTICE:

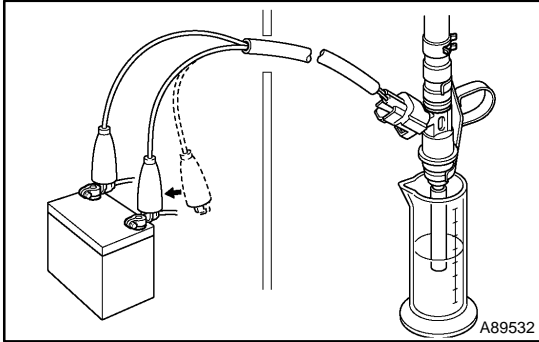
Do not start the engine.

- (m) Select the ACTIVE TEST mode on the hand-held tester.

HINT:

Refer to the hand-held tester operator's manual for further details.

- (n) If no hand-held tester is available, connect the battery's positive (+) and negative (-) leads to the fuel pump connector (see page 11-8).



- (o) Connect SST (wire) to the injector and battery for 15 seconds, and measure the injection volume with a graduated cylinder. Test each injector 2 or 3 times.

SST 09842-30070

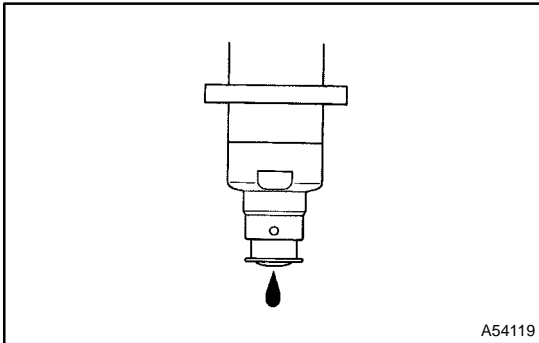
Injection volume:

60 to 73 cm³ (3.7 to 4.5 cu in.) per 15 seconds

Difference between each injector:

13 cm³ (0.8 cu in.) or less

If the injection volume is not as specified, replace the injector.



- (p) Inspect the fuel leakage.

- (1) In the condition above, disconnect the SST (wire) tester probes from the battery and check the fuel leakage from the injector.

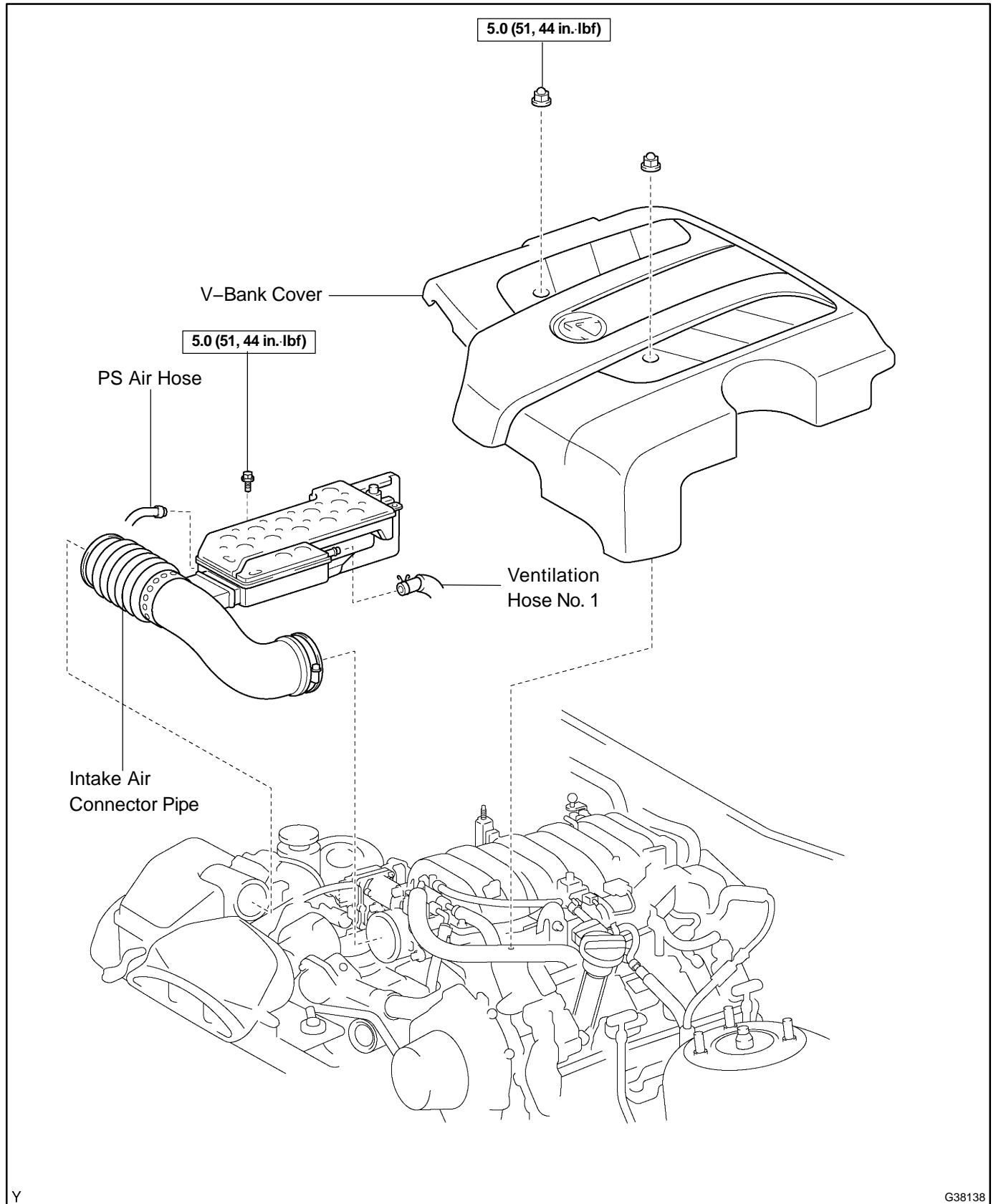
SST 09842-30070

Fuel drop: 1 drop or less per 12 minutes

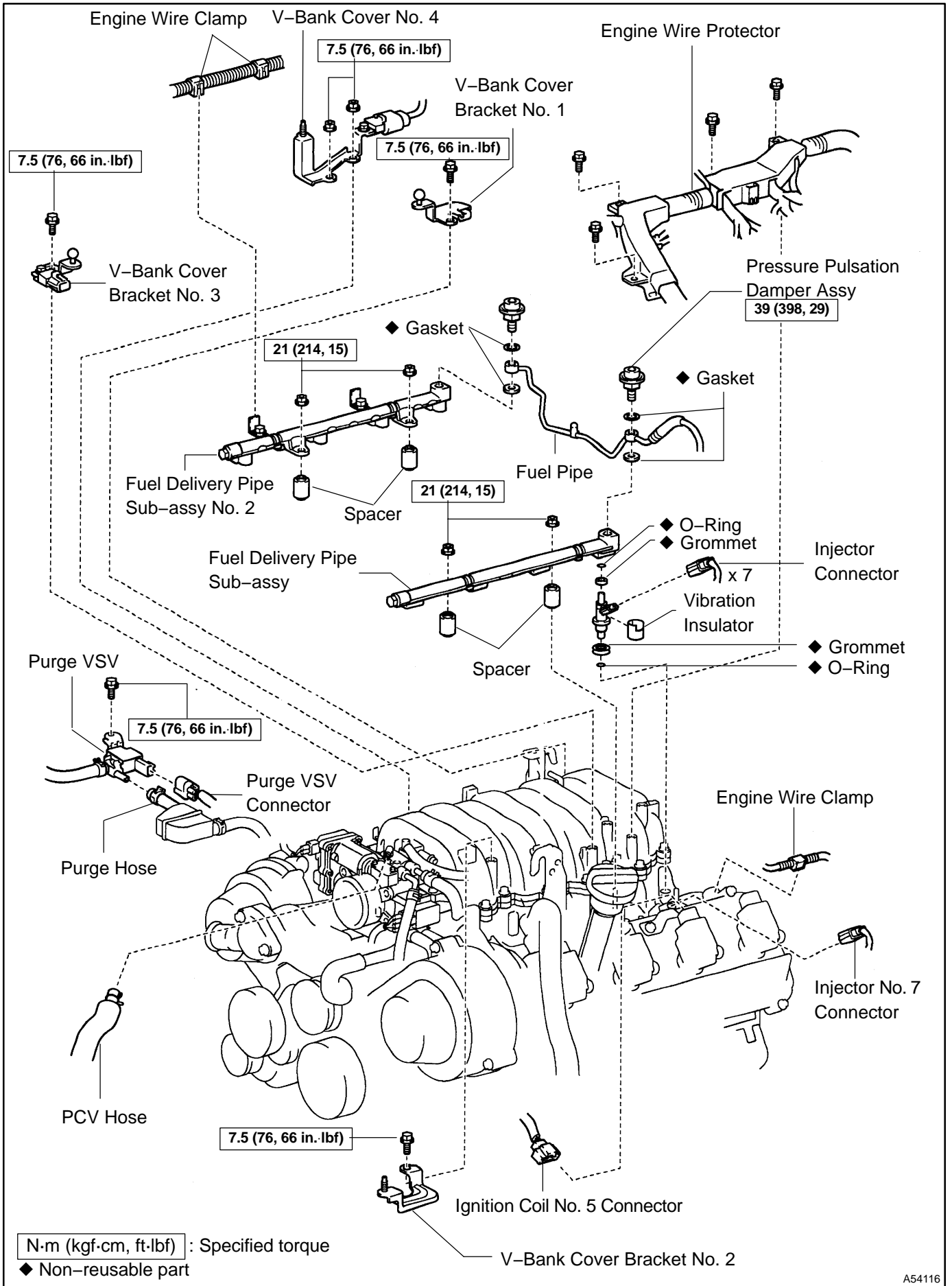
- (2) Turn the ignition switch OFF.
 (3) Disconnect the cable from the negative (-) battery terminal.
 (4) Remove SST.
 SST 09268-41047, 09842-30070
 (5) Disconnect the hand-held tester from the DLC3.
 (6) Reconnect the fuel inlet hose (rear fuel pipe) to the fuel main tube (see page 11-5).

FUEL INJECTOR ASSY COMPONENTS

1102Q-02



FUEL - FUEL INJECTOR ASSY



A54116

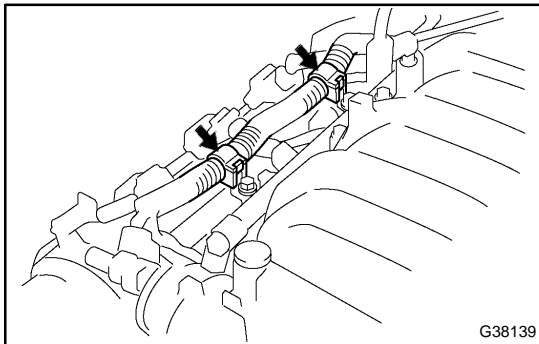
REPLACEMENT

1. DISCHARGE FUEL SYSTEM PRESSURE (See page 11-5)
2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

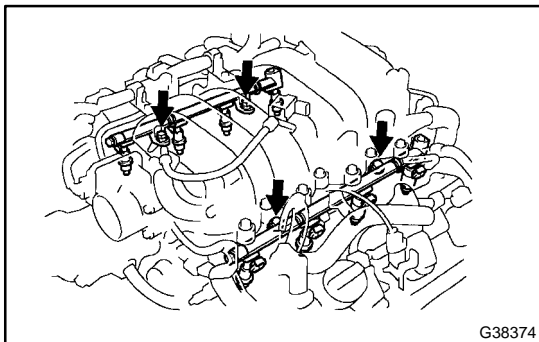
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

3. REMOVE V-BANK COVER
 - (a) Remove the 2 nuts and V-bank cover.
4. REMOVE INTAKE AIR CONNECTOR PIPE
 - (a) Disconnect the air hose and ventilation hose No. 1.
 - (b) Loosen the 2 hose clamps and remove the bolt and intake air connector.
5. REMOVE V-BANK COVER BRACKET NO.1
 - (a) Remove the bolt and bracket.
6. REMOVE V-BANK COVER BRACKET NO.2
 - (a) Remove the bolt and bracket.
7. REMOVE V-BANK COVER BRACKET NO.3
 - (a) Remove the bolt and bracket.
8. REMOVE V-BANK COVER BRACKET NO.4
 - (a) Remove the 2 bolts and bracket.
9. REMOVE PURGE VSV
 - (a) Disconnect the hose and connector and remove the bolt and VSV.



10. REMOVE ENGINE WIRE
 - (a) Disconnect the 2 wire clamps from the wire clamp brackets on the RH delivery pipe.

11. REMOVE FUEL PRESSURE PULSATION DAMPER ASSY
 - (a) Disconnect the fuel delivery pipe and fuel pipe by removing right and left pulsation dampers.
 - (b) Remove the 4 gaskets.



12. REMOVE FUEL DELIVERY PIPE SUB-ASSY
 - (a) Remove the installation bolts of the water by-pass pipe No. 1 and No. 2.
 - (b) Disconnect the injector connectors.
 - (c) Remove the 2 nuts. Then remove the fuel delivery pipe No. 1 by pulling it straight upward holding both ends.
13. REMOVE FUEL DELIVERY PIPE SUB-ASSY NO.2
 - (a) Disconnect the injector connectors.
 - (b) Remove the 2 nuts. Then remove the fuel delivery pipe No. 2 by pulling it straight upward holding both ends.

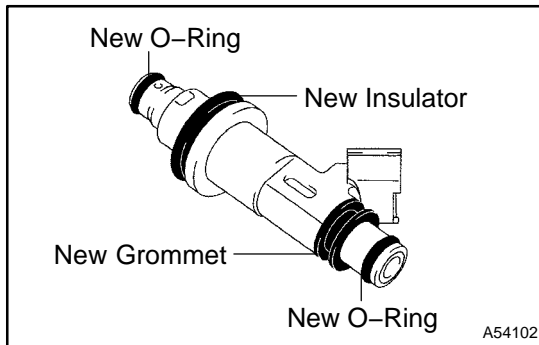
14. REMOVE FUEL INJECTOR ASSY

- (a) Remove the injector from the intake manifold.

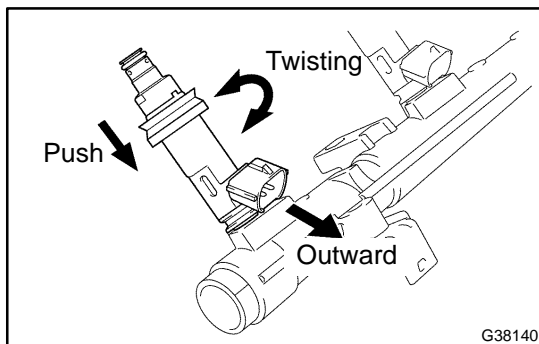
NOTICE:

Pull upward on the injector. Adding force in the horizontal direction may cause the O-ring to become stuck.

- (b) Remove the O-ring, grommet and vibration insulator from the injector.

**15. INSTALL FUEL INJECTOR ASSY**

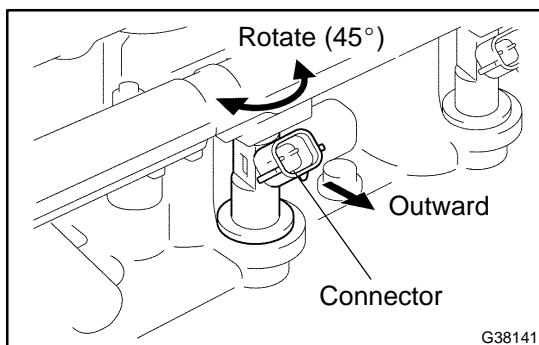
- (a) Install a new grommet and vibration insulator to the injector.
- (b) Check the injector's grooves (where O-rings are installed) for foreign matter or damage. Apply gasoline to 2 new O-rings and install them to the injector's grooves.



- (c) To install the fuel injector into the fuel delivery pipe, push the fuel injector while twisting it back and forth. Position the injector connector outward.
- (d) Check that the injector rotates smoothly.

NOTICE:

If the injector does not rotate smoothly, the O-ring may be caught on something. Remove the injector, replace the O-ring and reinstall the injector.

**16. INSTALL FUEL DELIVERY PIPE SUB-ASSY NO.2**

- (a) Install the injector (with delivery pipe) to the intake manifold. Then position the injector connector so that it faces outward.
- (b) Check that the injectors rotate smoothly within a range of approximately 45°.

HINT:

If injectors do not rotate smoothly, the probable cause is incorrect installation of O-rings. Replace the O-rings.

- (c) Set a new spacer on the intake manifold, and install the delivery pipe to the intake manifold with the 2 nuts.

Torque: 21 N·m (214 kgf·cm, 15 ft·lbf)

17. INSTALL FUEL DELIVERY PIPE SUB-ASSY

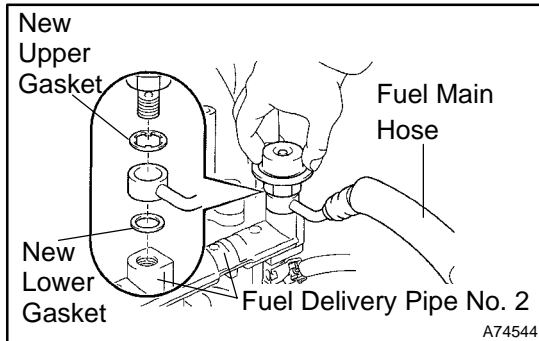
- (a) Install the injector (with delivery pipe) to the intake manifold and then position the injector connector so that it faces outward.
- (b) Check that the injectors rotate smoothly. Turn the injector both ways by approximately 45 degrees.

HINT:

If injectors do not rotate smoothly, the probable cause is incorrect installation of O-rings. Replace the O-rings.

- (c) Set a new spacer on the intake manifold, and install the delivery pipe to the intake manifold with the 2 nuts.

Torque: 21 N·m (214 kgf·cm, 15 ft·lbf)



18. INSTALL FUEL PRESSURE PULSATION DAMPER ASSY

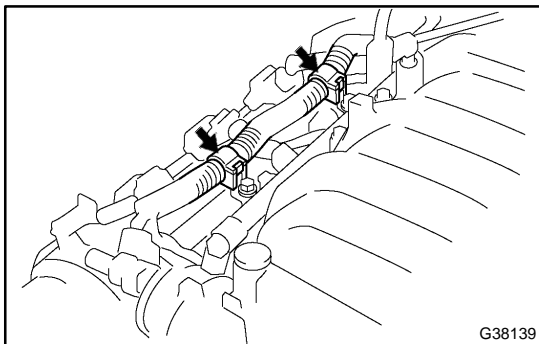
- (a) Set new upper and lower gaskets into the fuel main hose, and insert the pulsation damper through the hose and gaskets.
- (b) Install the pulsation damper to the fuel delivery pipe No. 2.

SST 09612-24014 (09617-24011)

Torque:

39 N·m (398 kgf·cm, 29 ft·lbf)

33 N·m (337 kgf·cm, 24 ft·lbf) for use with SST



19. INSTALL ENGINE WIRE

- (a) Connect the 2 wire clamps to the wire clamp brackets on the RH delivery pipe.

20. INSTALL PURGE VSV

- (a) Install the VSV with the bolt.

Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)

- (b) Connect the hose and connector.

21. INSTALL V-BANK COVER BRACKET NO.4

- (a) Install the bracket with the 2 bolts.

Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)

22. INSTALL V-BANK COVER BRACKET NO.3

- (a) Install the bracket with the bolt.

Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)

23. INSTALL V-BANK COVER BRACKET NO.2

- (a) Install the bracket with the bolt.

Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)

24. INSTALL V-BANK COVER BRACKET NO.1

- (a) Install the bracket with the bolt.

Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)

25. INSTALL INTAKE AIR CONNECTOR PIPE

- (a) Install the intake air connector pipe with the bolt and hose clamp.

Torque:

4.0 N·m (41 kgf·cm, 35 in·lbf) for hose clamp

5.0 N·m (51 kgf·cm, 44 in·lbf) for bolt

(b) Connect the air hose and the ventilation hose No. 1.

26. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

27. PERFORM INITIALIZATION (See page 01-17)

NOTICE:

Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.

28. CHECK FOR FUEL LEAKS (See page 11-5)

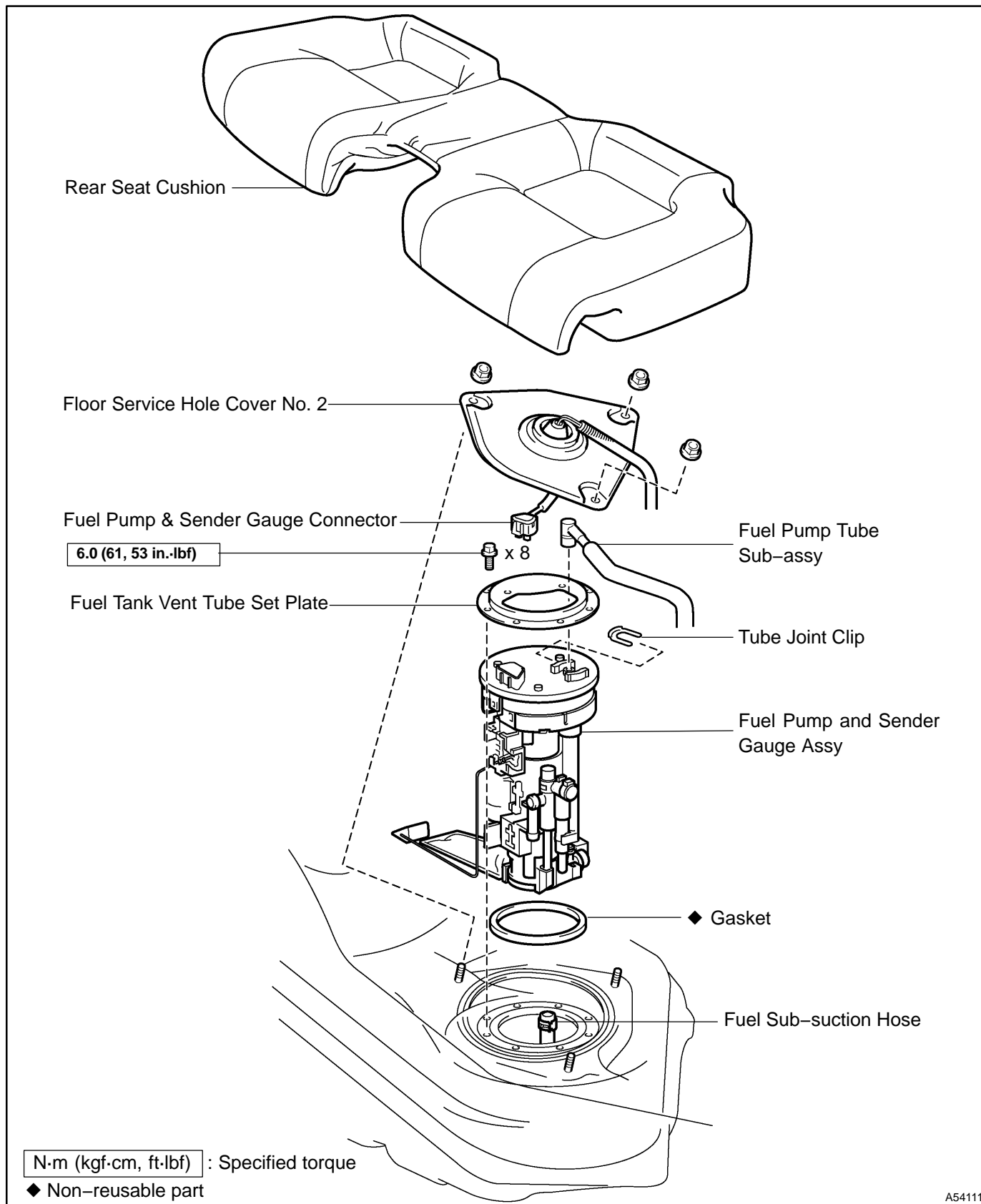
29. INSTALL V-BANK COVER

(a) Install the V-bank cover with the 2 nuts.

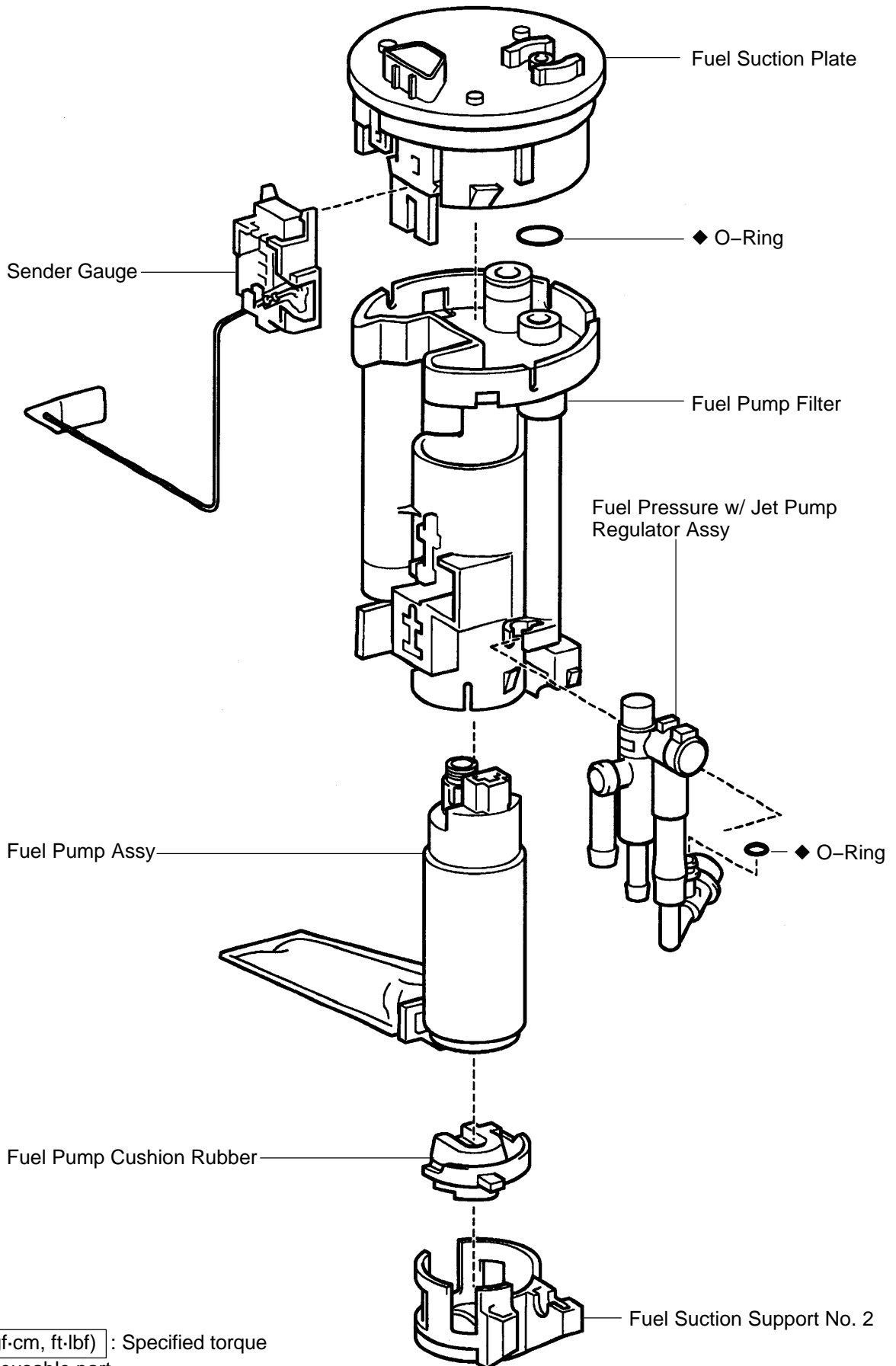
Torque: 5.0 N·m (51 kgf·cm, 44 in·lbf)

FUEL PUMP ASSY COMPONENTS

1118D-01



A54111



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

G38142

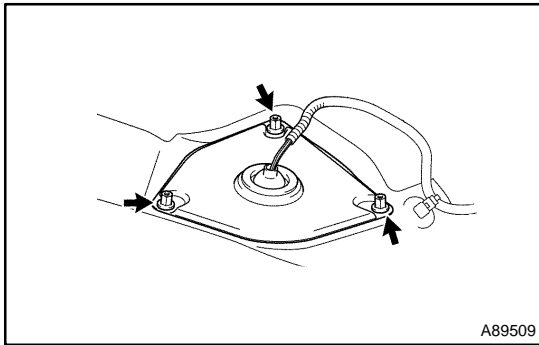
REPLACEMENT

1. DISCHARGE FUEL SYSTEM PRESSURE (See page 11-5)
2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

3. DRAIN FUEL
4. REMOVE REAR SEAT CUSHION ASSY (See page 72-9)

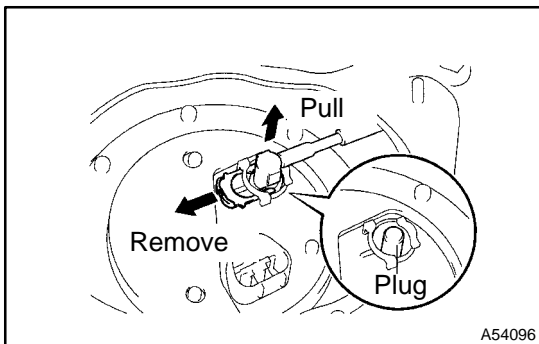


5. REMOVE REAR FLOOR SERVICE HOLE COVER NO.2
 - (a) Remove the 3 cap nuts and service hole cover.

6. REMOVE FUEL PUMP TUBE SUB-ASSY

NOTICE:

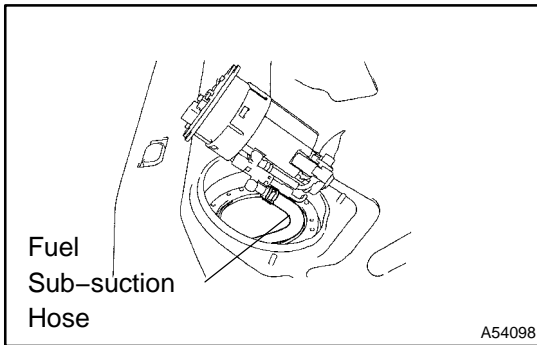
- These procedures should be performed with the fuel tank less than 1/4 full.
- Check for dirt and foreign matter in the pipe and around the connector. Clean if necessary. Foreign matter may damage the O-ring or cause leaks in the seal between the pipe and connector.
- Do not use any tools in these procedures.
- Do not forcefully bend or twist the nylon tube.
- Check for dirt and foreign matter on the pipe seal surface. Clean if necessary.
- Put the pipe and connector ends in plastic bags to prevent damage and dirt and foreign matter.
- If the pipe and connector are stuck together, pinch the tube and turn it carefully to free it. Then disconnect the tube.



- (a) Remove the tube joint clip.
- (b) Pull out the fuel pump tube.
- (c) Plug the port of the fuel suction plate with a clean rubber cap.

7. REMOVE FUEL TANK VENT TUBE SET PLATE

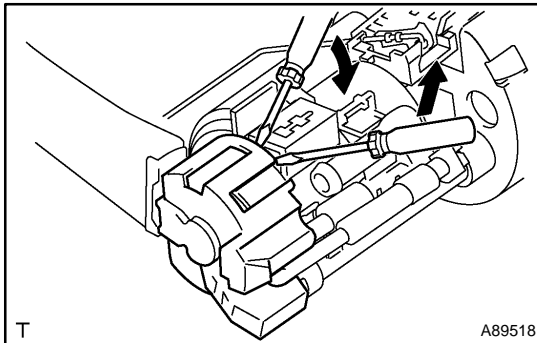
- (a) Remove the 8 bolts and set plate.



- 8. REMOVE FUEL PUMP AND SENDER GAUGE ASSY**
- (a) Lift up the fuel pump and sender gauge, and disconnect the fuel sub-suction hose from the fuel return jet tube. Then remove the fuel pump, sender gauge and gasket.

NOTICE:

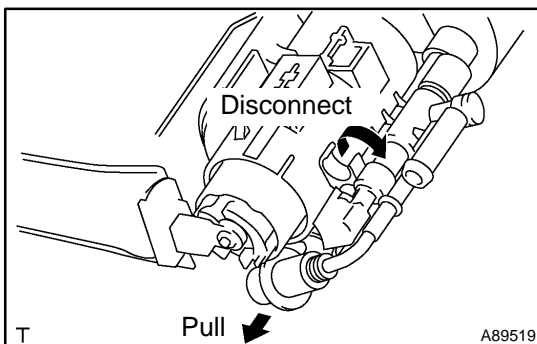
- Be careful not to damage the fuel pump filter.
- Be careful not to bend the sender gauge arm.

**9. REMOVE FUEL SUCTION SUPPORT NO.2**

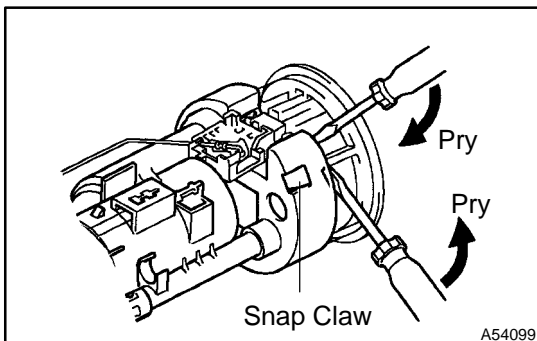
- (a) Using 2 screwdrivers, disconnect the 3 snap claws from the claw holes and remove the fuel suction support.

NOTICE:

Be careful not to damage the suction support and fuel filter.

10. REMOVE FUEL PUMP CUSHION RUBBER**11. REMOVE FUEL PRESSURE W/JET PUMP REGULATOR ASSY**

- (a) Disconnect the fuel return jet tube from the clamp of the fuel filter.
- (b) Pull out the fuel pressure regulator from the fuel filter.
- (c) Remove the O-ring from the fuel pressure regulator.

**12. REMOVE FUEL SUCTION PLATE W/SENDER GAUGE**

- (a) Using 2 screwdrivers, disconnect the 4 snap claws from the claw holes and remove the fuel filter.

NOTICE:

Be careful not to damage the filter assembly and suction plate.

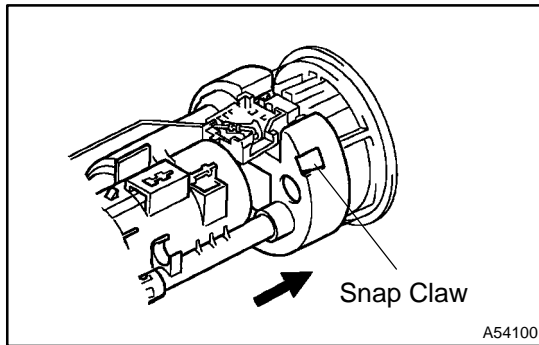
- (b) Disconnect the fuel pump connector.
- (c) Remove the O-ring from the fuel port of the fuel suction plate.

13. REMOVE FUEL PUMP ASSY

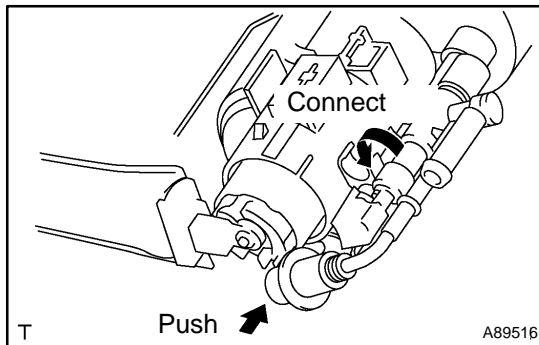
- (a) Pull out the fuel pump with filter.

14. INSTALL FUEL PUMP ASSY

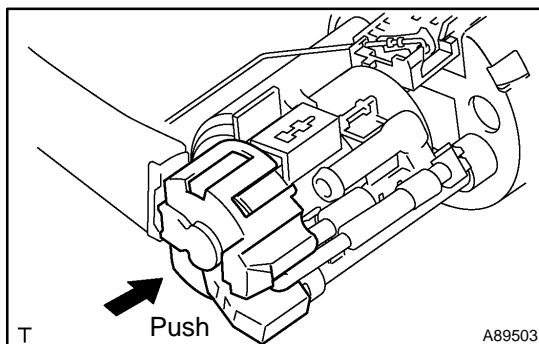
- (a) Push in the fuel pump with filter.

**15. INSTALL FUEL SUCTION PLATE W/SENDER GAUGE**

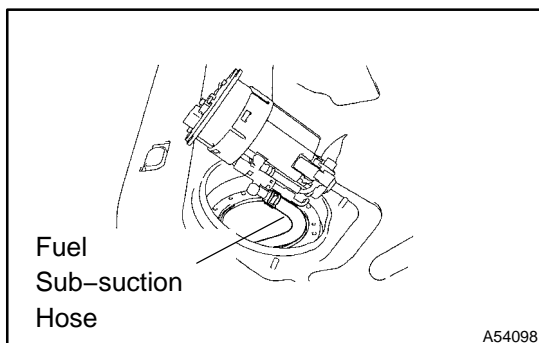
- (a) Apply a light coat of gasoline to a new O-ring, and install it to the fuel port of the fuel suction plate.
- (b) Connect the fuel pump connector.
- (c) Push the fuel filter, and attach the 4 snap claws to the claw holes.

**16. INSTALL FUEL PRESSURE W/JET PUMP REGULATOR ASSY**

- (a) Apply a light coat of gasoline to a new O-ring, and install it to the fuel pressure regulator.
- (b) Push in the fuel pressure regulator to the fuel filter.
- (c) Check that the fuel pressure regulator rotates smoothly. If it does not rotate smoothly, the O-ring may be pinched. Remove the fuel pressure regulator and repeat steps (b) and (c) above.
- (d) Connect the fuel return jet tube to the clamp of the fuel filter.

17. INSTALL FUEL PUMP CUSHION RUBBER**18. INSTALL FUEL SUCTION SUPPORT NO.2**

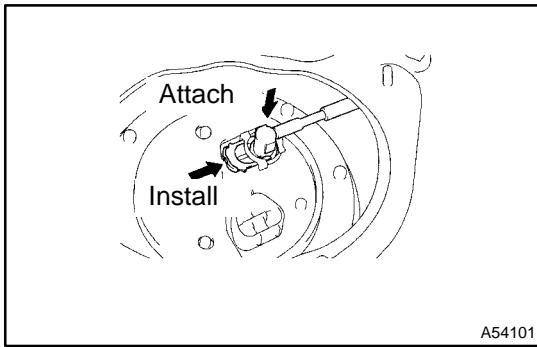
- (a) Push the fuel suction support to the fuel filter and attach the 3 snap claws to the claw holes.

**19. INSTALL FUEL PUMP AND SENDER GAUGE ASSY**

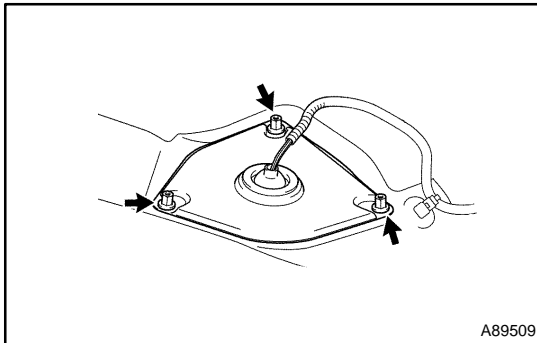
- (a) Install a new gasket to the fuel suction plate.
- (b) Connect the fuel sub-suction hose to the fuel return jet tube.
- (c) Attach the fuel pump and sender gauge to the fuel tank.

20. INSTALL FUEL TANK VENT TUBE SET PLATE

- (a) Install the set plate with the 8 bolts.
Torque: 6.0 N·m (61 kgf·cm, 52 in·lbf)

**21. INSTALL FUEL PUMP TUBE SUB-ASSY**

- (a) Attach the fuel tube connector to the fuel suction plate's port.
- (b) Install the tube joint clip.

**22. INSTALL REAR FLOOR SERVICE HOLE COVER NO.2**

- (a) Install the service hole cover with the 3 cap nuts.

23. INSTALL REAR SEAT CUSHION ASSY (See page 72-9)

24. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

25. PERFORM INITIALIZATION (See page 01-17)

NOTICE:

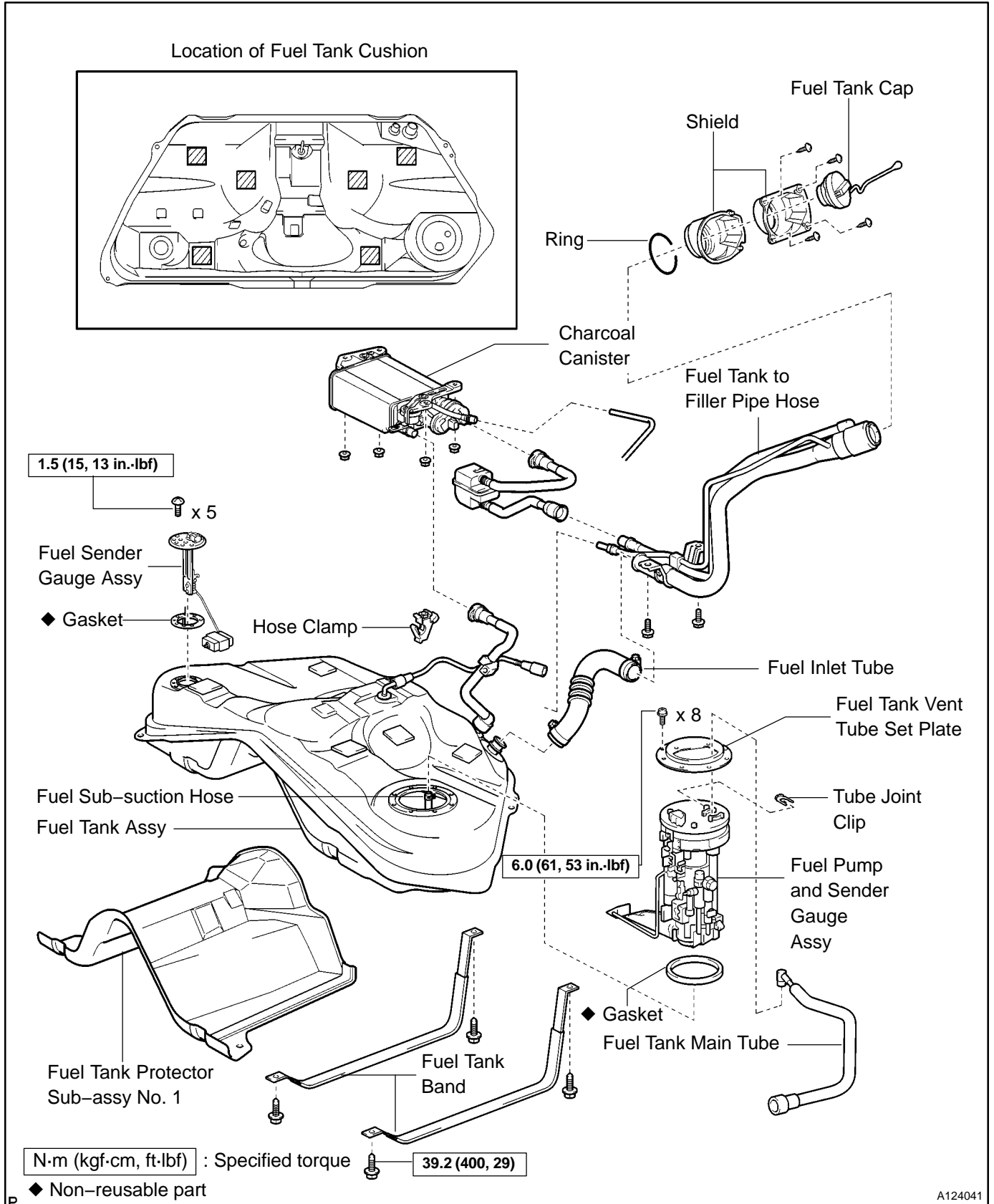
Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.

26. ADD FUEL

27. CHECK FOR FUEL LEAKS (See page 11-5)

FUEL TANK ASSY COMPONENTS

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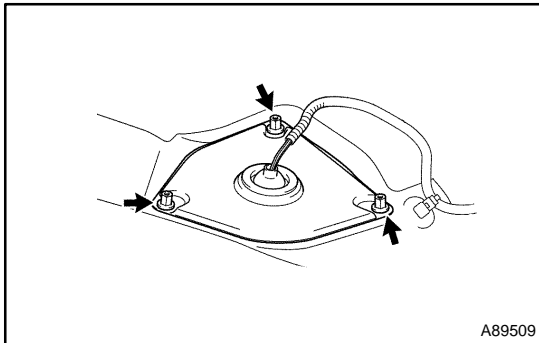
REPLACEMENT

1. DISCHARGE FUEL SYSTEM PRESSURE (See page 11-5)
2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

3. DRAIN FUEL
4. REMOVE REAR SEAT CUSHION ASSY (See page 72-9)



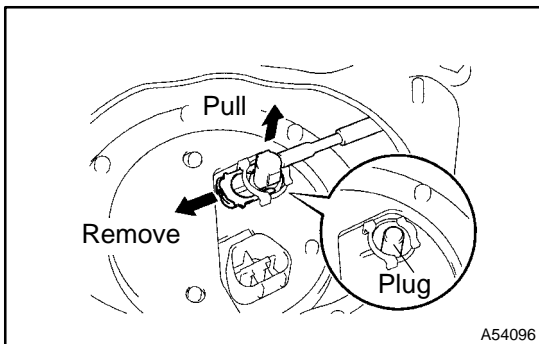
5. REMOVE REAR FLOOR SERVICE HOLE COVER NO.2

- (a) Remove the 3 cap nuts and service hole cover.

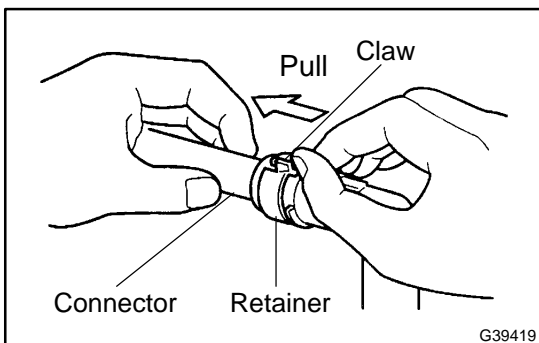
6. REMOVE FUEL PUMP TUBE SUB-ASSY

NOTICE:

- These procedures should be performed with the fuel tank less than 1/4 full.
- Check for dirt and foreign matter in the pipe and around the connector. Clean if necessary. Foreign matter may damage the O-ring or cause leaks in the seal between the pipe and connector.
- Do not use any tools in these procedures.
- Do not forcefully bend or twist the nylon tube.
- Check for dirt and foreign matter on the pipe seal surface. Clean if necessary.
- Put the pipe and connector ends in plastic bags to prevent damage and dirt and foreign matter.
- If the pipe and connector are stuck together, pinch the tube and turn it carefully to free it. Then disconnect the tube.



- (a) Disconnect the fuel tank side connector.
 - (1) Remove the tube joint clip.
 - (2) Pull out the fuel pump tube.
 - (3) Plug the port of the fuel suction plate with a clean rubber cap.

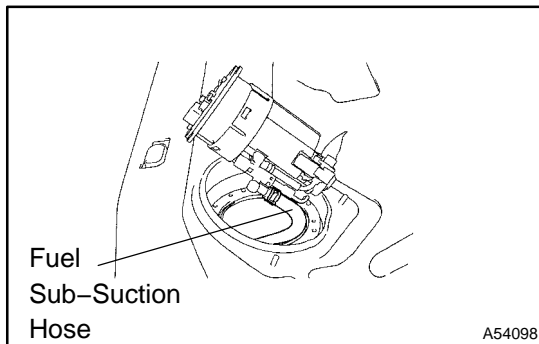


- (b) Disconnect the fuel pipe side connector.
 - (1) Clean the pipe.
 - (2) Hold the claw of the retainer with your thumb and pull out the connector.

NOTICE:

- If the connector and pipe are stuck together, release them by pushing and pulling them with hands.
 - Do not reuse the retainer.
- (c) Protect each connecting part from damage and dirt by covering it with a plastic bag.

7. **REMOVE REAR FLOOR SERVICE HOLE COVER**
 - (a) Remove the service hole cover and disconnect the fuel sender gauge connector.
8. **REMOVE FRONT FLOOR BRACE CENTER (See page 30-4)**
9. **REMOVE RR SUSPENSION MEMBER BRACE REAR LOWER RH (See page 30-4)**
10. **REMOVE RR SUSPENSION MEMBER BRACE REAR LOWER LH (See page 30-4)**
11. **REMOVE ENGINE UNDER COVER**
12. **REMOVE EXHAUST PIPE ASSY (See page 15-6)**
13. **REMOVE FRONT FLOOR HEAT INSULATOR NO.1**
 - (a) Remove the 4 bolts and heat insulator.
14. **REMOVE PROPELLER SHAFT ASSY (See page 30-4)**
15. **REMOVE PARKING BRAKE CABLE ASSY NO.2 (See page 33-15)**
16. **REMOVE PARKING BRAKE CABLE ASSY NO.3 (See page 33-15)**
17. **DISCONNECT FUEL TANK TO FILLER PIPE HOSE**
18. **DISCONNECT BREATHER TUBE FUEL HOSE**
19. **DISCONNECT FUEL HOSE SUB-ASSY NO.3**
20. **DISCONNECT FUEL TANK VENT HOSE**
21. **DISCONNECT FUEL CUT OFF W/TUBE VALVE ASSY**
22. **REMOVE FUEL TANK ASSY**
 - (a) Using a mission jack, support the fuel tank.
 - (b) Disconnect the fuel tank band and remove the fuel tank.
23. **REMOVE FUEL TANK VENT TUBE SET PLATE**
 - (a) Remove the 8 bolts and set plate.

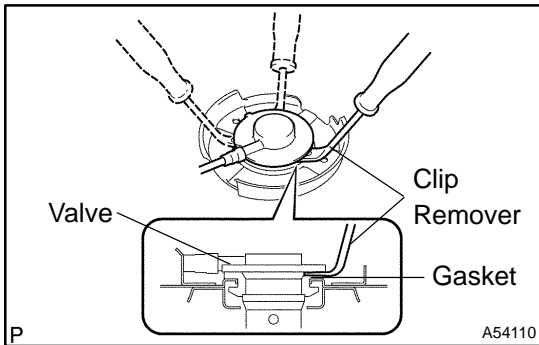


24. **REMOVE FUEL PUMP AND SENDER GAUGE ASSY**
 - (a) Lift up the fuel pump and sender gauge, and disconnect the fuel sub-suction hose from the fuel return jet tube. Then remove the fuel pump, sender gauge and gasket.

NOTICE:

- **Be careful not to damage the fuel pump filter.**
- **Be careful not to bend the sender gauge arm.**

25. **REMOVE FUEL SENDER GAGE ASSY**
 - (a) Remove the 5 screws, sender gage and gasket.
26. **REMOVE FUEL CUT OFF W/TUBE VALVE ASSY**
 - (a) Remove the valve and gasket.
27. **REMOVE FUEL TANK PROTECTOR SUB-ASSY NO.1**
28. **REMOVE FUEL TANK CUSHION NO.1**



29. REMOVE FUEL TANK OVER FILL CHECK VALVE ASSY

NOTICE:

- When installing or removing the check valve, do not use force. The check valve is made of resin and damages easily. Following these procedures carefully ensures that the check valve stays in good condition and maintains its sealing properties.
- Check valves and gaskets must be replaced with new ones.

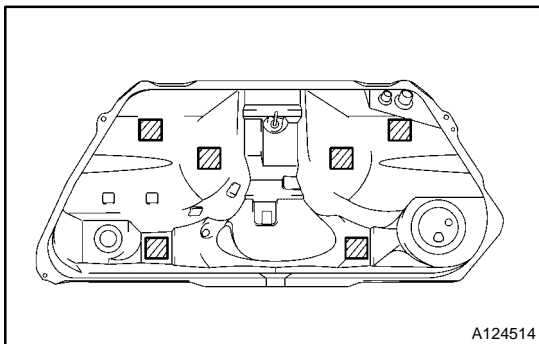
- (a) Insert a clip remover between the check valve and the gasket, and remove the check valve by prying up the valve gradually.

30. INSTALL FUEL TANK OVER FILL CHECK VALVE ASSY

- (a) Install a new gasket to the fuel tank.
- (b) Apply some gasoline to the entire circumference of a new over fill check valve, and insert it into the fuel tank.

NOTICE:

- Do not insert the check valve with excessive force.
- Be careful not to drop the gasket into the tank.
- Make sure that there is no clearance between the gasket and the lower surface of the check valve.



31. INSTALL FUEL TANK CUSHION NO.1

- (a) Attach the fuel tank cushions to the shaded areas in the illustration.

32. INSTALL FUEL TANK PROTECTOR SUB-ASSY NO.1

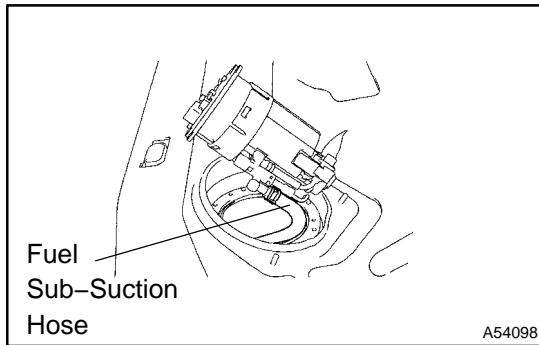
33. INSTALL FUEL CUT OFF W/TUBE VALVE ASSY

- (a) Install a new gasket and the valve.

34. INSTALL FUEL SENDER GAGE ASSY

- (a) Install a new gasket and the sender gauge with the 5 screws.

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



- 35. INSTALL FUEL PUMP AND SENDER GAUGE ASSY**
- Install a new gasket to the fuel suction plate.
 - Connect the fuel sub-suction hose to the fuel return jet tube.
 - Attach the fuel pump and sender gauge to the fuel tank.

36. INSTALL FUEL TANK VENT TUBE SET PLATE

- Install the set plate with the 8 bolts.
Torque: 6.0 N·m (61 kgf·cm, 52 in·lbf)

37. INSTALL FUEL TANK ASSY

- Securely place a mission jack under the fuel tank.
- Jack up the fuel tank.
- Install the fuel tank and fuel tank band with the 4 bolts.
Torque: 39.2 N·m (400 kgf·cm, 29 ft·lbf)

38. CONNECT FUEL CUT OFF W/TUBE VALVE ASSY

39. CONNECT FUEL TANK VENT HOSE

40. CONNECT FUEL HOSE SUB-ASSY NO.3

41. CONNECT BREATHER TUBE FUEL HOSE

42. CONNECT FUEL TANK TO FILLER PIPE HOSE

43. INSTALL PARKING BRAKE CABLE ASSY NO.3 (See page 33-15)

44. INSTALL PARKING BRAKE CABLE ASSY NO.2 (See page 33-15)

45. INSTALL PROPELLER SHAFT ASSY(See page 30-4)

46. INSTALL FRONT FLOOR HEAT INSULATOR NO.1

- Install the heat insulator with the 4 bolts.
Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)

47. INSTALL EXHAUST PIPE ASSY (See page 15-6)

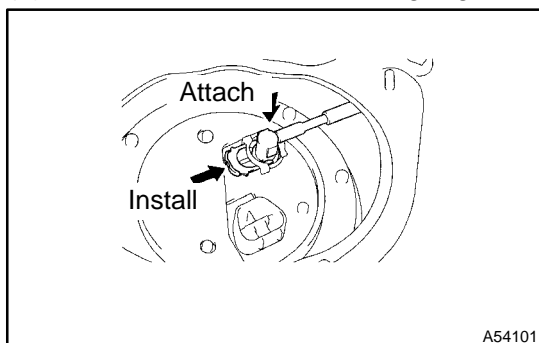
48. INSTALL RR SUSPENSION MEMBER BRACE REAR LOWER LH (See page 30-4)

49. INSTALL RR SUSPENSION MEMBER BRACE REAR LOWER RH (See page 30-4)

50. INSTALL FRONT FLOOR BRACE CENTER (See page 30-4)

51. INSTALL REAR FLOOR SERVICE HOLE COVER

- Connect the fuel sender gauge connector and install the service hole cover.

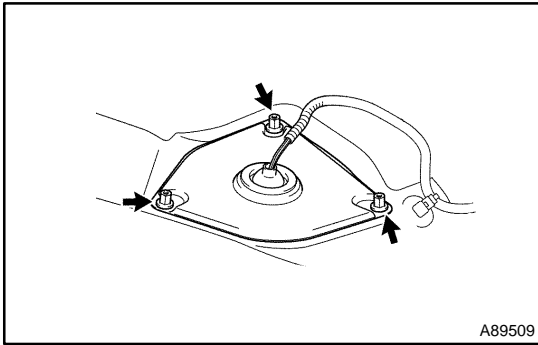


52. INSTALL FUEL PUMP TUBE SUB-ASSY

- Connect the connector on the fuel tank side.
 - Attach the fuel tube connector to the fuel suction plate port.
 - Install the tube joint clip.
- Connect the connector on the fuel pipe side.
 - Insert the connector by aligning the pipe and the connector until the retainer makes a "click" sound.

NOTICE:

- Check for damage and foreign matter in the pipe and around the connector.
- After having finished the connection, check if the pipe and the connector are securely connected by trying to pull them apart.

**53. INSTALL REAR FLOOR SERVICE HOLE COVER NO.2**

- (a) Install the service hole cover with the 3 nuts.

54. INSTALL REAR SEAT CUSHION ASSY (See page 72-9)

55. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

56. PERFORM INITIALIZATION (See page 01-17)

NOTICE:

Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.

57. ADD FUEL

58. CHECK FUEL PUMP OPERATION AND CHECK FOR FUEL LEAKS (See page 11-8)

59. CHECK FOR EXHAUST GAS LEAKS