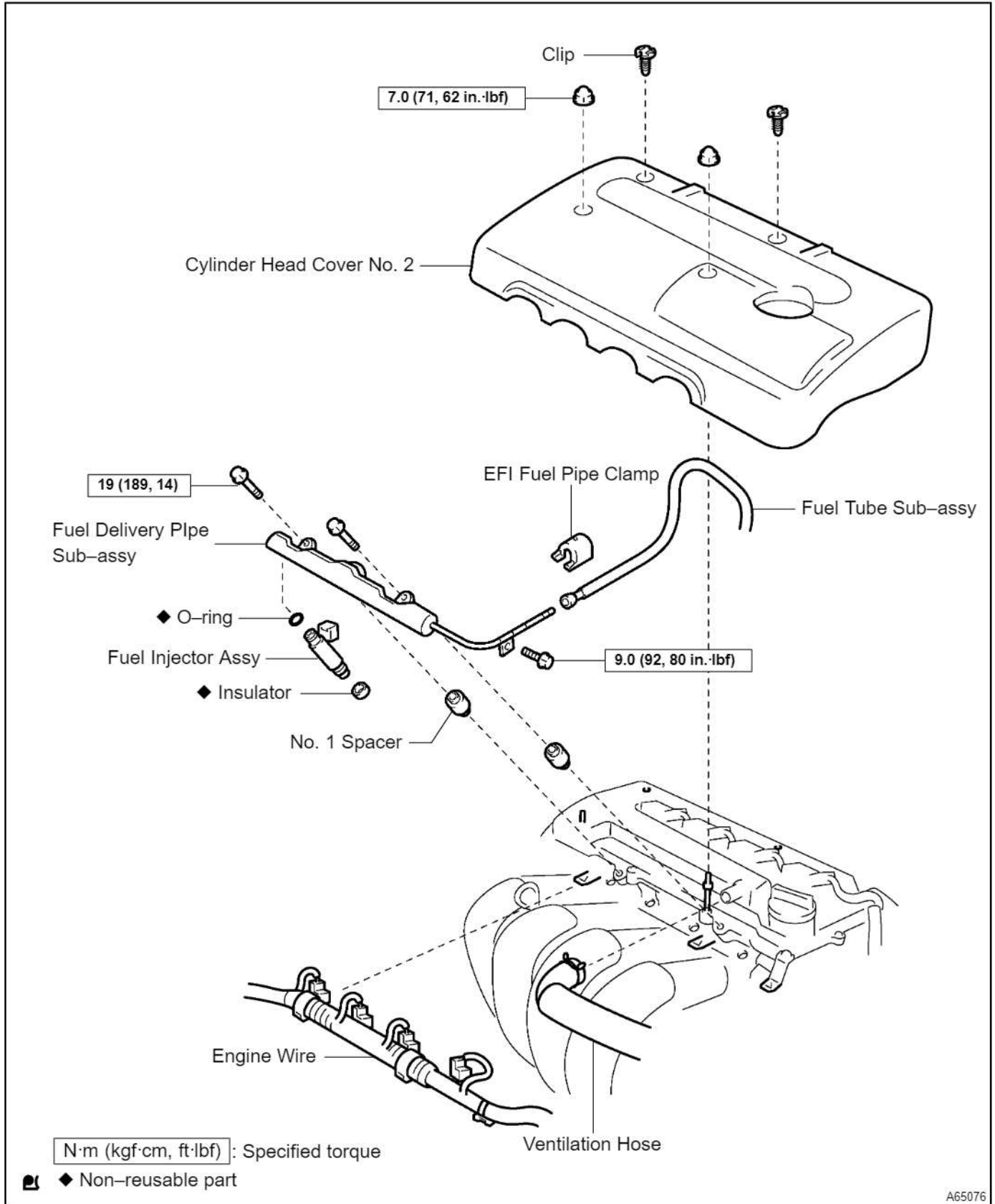


FUEL INJECTOR ASSY COMPONENTS

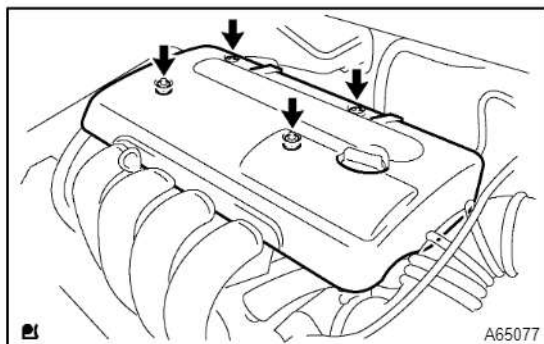
110FI-01



A65076

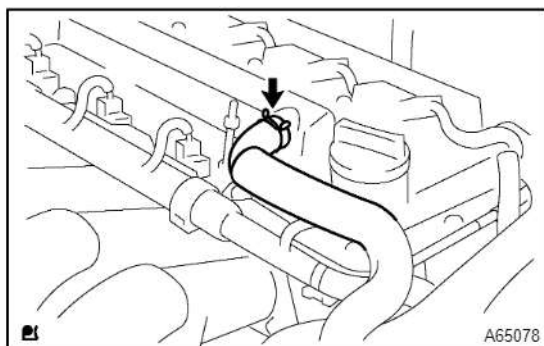
REPLACEMENT

1. WORK FOR PREVENTING GASOLINE FROM SPILLING OUT (See page 11-1)



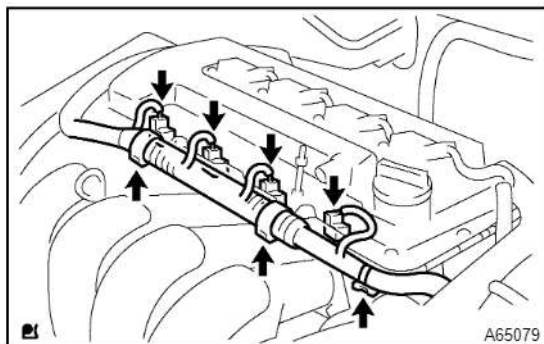
2. REMOVE CYLINDER HEAD COVER NO.2

- (a) Remove the 2 nuts, 2 clips and cylinder head cover.



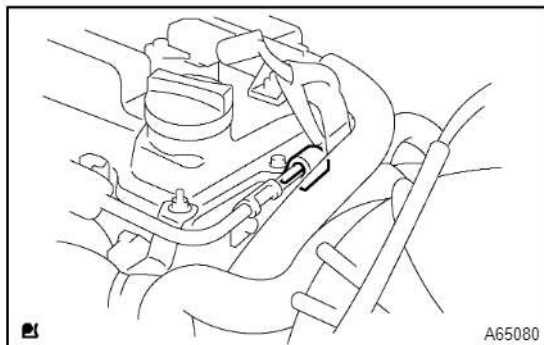
3. DISCONNECT VENTILATION HOSE

- (a) Disconnect the ventilation hose from the cylinder head cover.



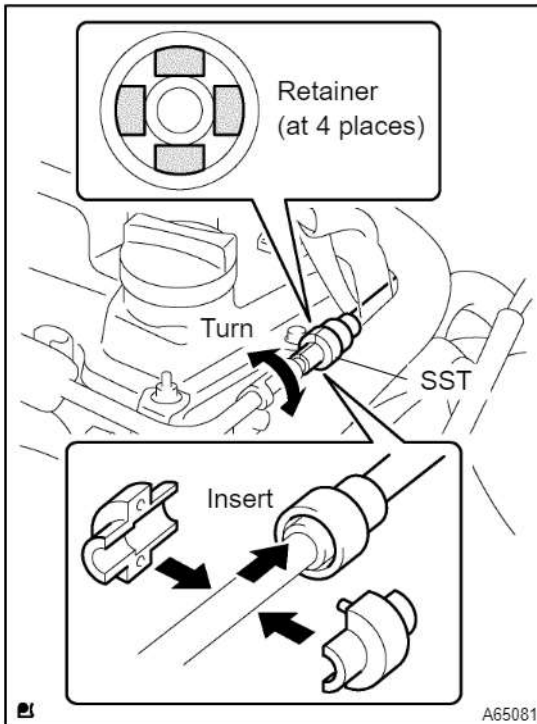
4. DISCONNECT ENGINE WIRE

- (a) Disconnect the 4 fuel injector connectors.
(b) Remove the 3 wire harness clamps from the clamp brackets.



5. REMOVE EFI FUEL PIPE CLAMP

- (a) Remove the EFI fuel pipe clamp.

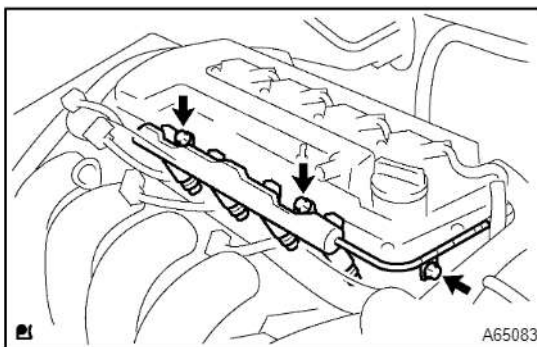
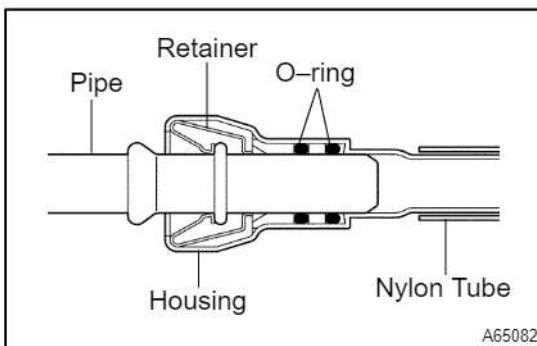


6. DISCONNECT FUEL TUBE SUB-ASSY

- (a) Using a SST, disconnect the fuel tube.
SST 09268-21010
- (1) Assemble the SST to the connection as shown.
 - (2) Turn the SST, align the retainers inside the connector with the SST chamfered parts and insert the SST into the connector.
 - (3) Slide the SST and the connector together towards the fuel tube assembly.

NOTICE:

- Check if there is dirt mud on the pipe and around the connector before disconnecting them and clean the dirt away.
- Do not bent, fold and rotate the nylon tube.
- When the connector and the pipe are stuck, push and pull the connector to free to disconnect and pull it out.
- Prevent the disconnected pipe and connector from damaging and mixing foreign objects by covering them with a vinyl bag.

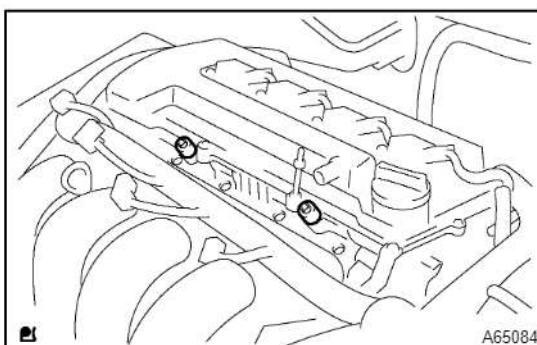


7. REMOVE FUEL DELIVERY PIPE SUB-ASSY

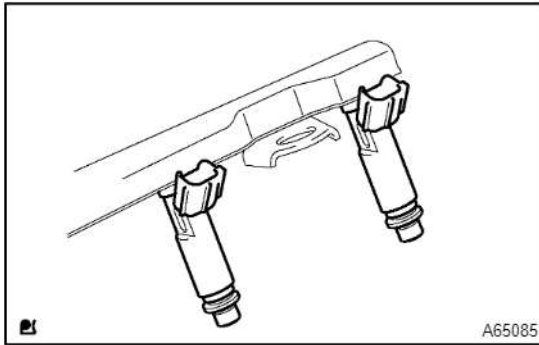
- (a) Remove the 3 bolts and fuel delivery pipe together with the 4 fuel injectors.

NOTICE:

Be careful not to drop the fuel injectors when removing the fuel delivery pipe.

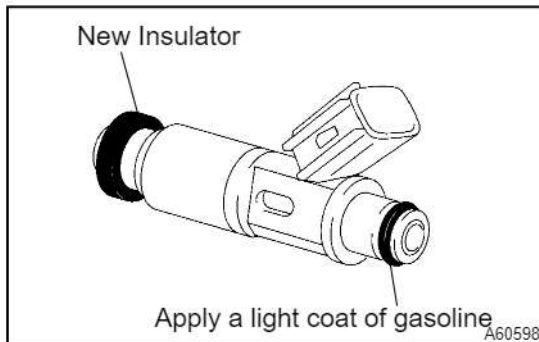


- (b) Remove the 2 spacers from the cylinder head.



8. REMOVE FUEL INJECTOR ASSY

- (a) Pull out the 4 fuel injectors from the fuel delivery pipe.

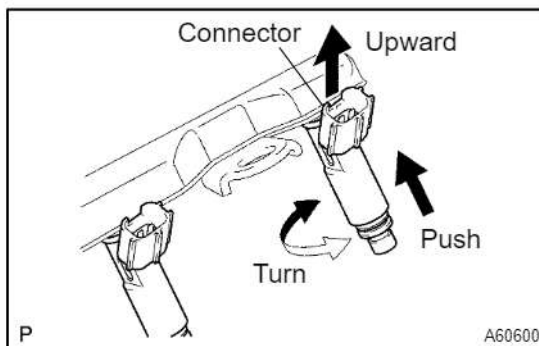


9. INSTALL FUEL INJECTOR ASSY

- (a) Install a new insulator to the each fuel injector.
 (b) Apply a light coat of spindle oil or gasoline to a new O-ring, and install it to the each fuel injector.

NOTICE:

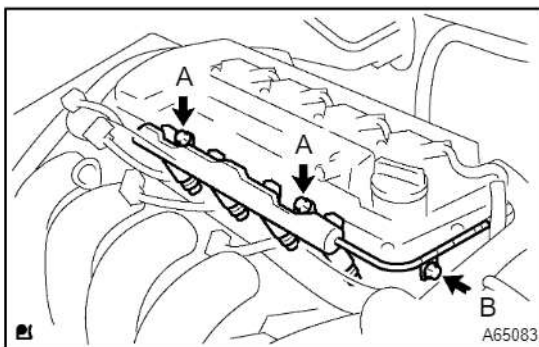
Never use engine, gear or brake oil.



- (c) Apply a light coat of spindle oil or gasoline on the place where the fuel delivery pipe touches on the O-ring.
 (d) While turning the fuel injector clockwise and counter-clockwise, and push it to the fuel delivery pipe.

NOTICE:

- Be careful not twist the O-ring.
- After installing the fuel injectors, Check that they turns smoothly. If the fuel injector does not, reinstall it with a new O-ring.



10. INSTALL FUEL DELIVERY PIPE SUB-ASSY

- (a) Install the 2 spacers to the cylinder head.
 (b) Install the fuel delivery pipe together with the 4 fuel injectors with the 3 bolts.

Torque:

Bolt A 19 N·m (194 kgf·cm, 14 ft·lbf)

Bolt B 9.0 N·m (92 kgf·cm, 80 in·lbf)

NOTICE:

- Be careful not drop the fuel injectors when installing the fuel delivery pipe.
- Check that the fuel injectors rotate smoothly after installing the fuel delivery pipe.

11. CONNECT FUEL TUBE SUB-ASSY

- (a) Connect the fuel tube to the fuel delivery pipe.

NOTICE:

- Check if there is any damage or foreign objects on the connected part of the fuel tube.
- After connecting, check if the fuel tube and the connector are securely connected by pulling them.

12. INSTALL CYLINDER HEAD COVER NO.2

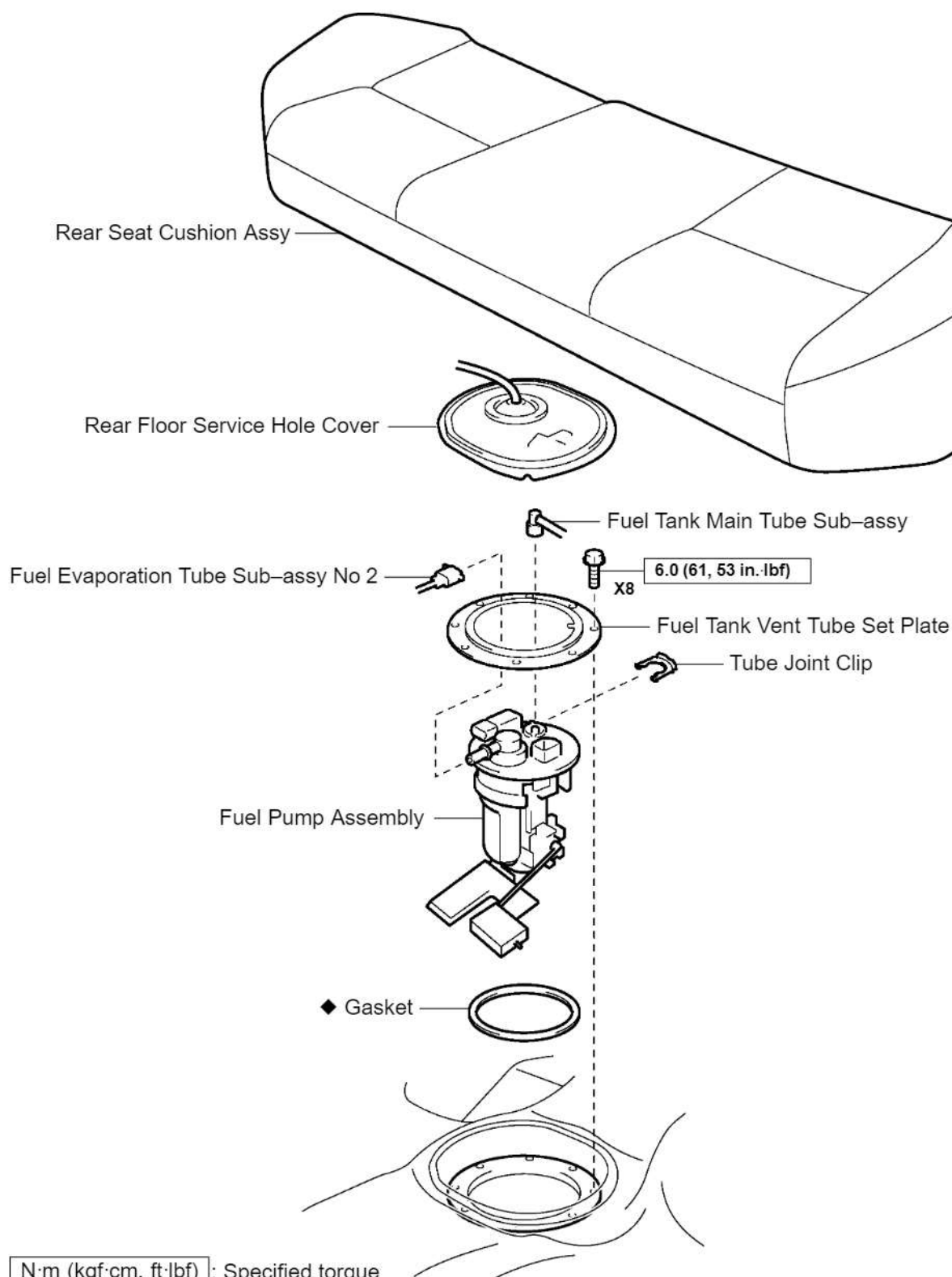
- (a) Install the cylinder head cover with the 2 nuts and 2 clips.

Torque: 7.0 N·m (71 kgf·cm, 62 in.·lbf)

13. CHECK FUEL LEAK (See page [11-1](#))

FUEL PUMP ASSY COMPONENTS

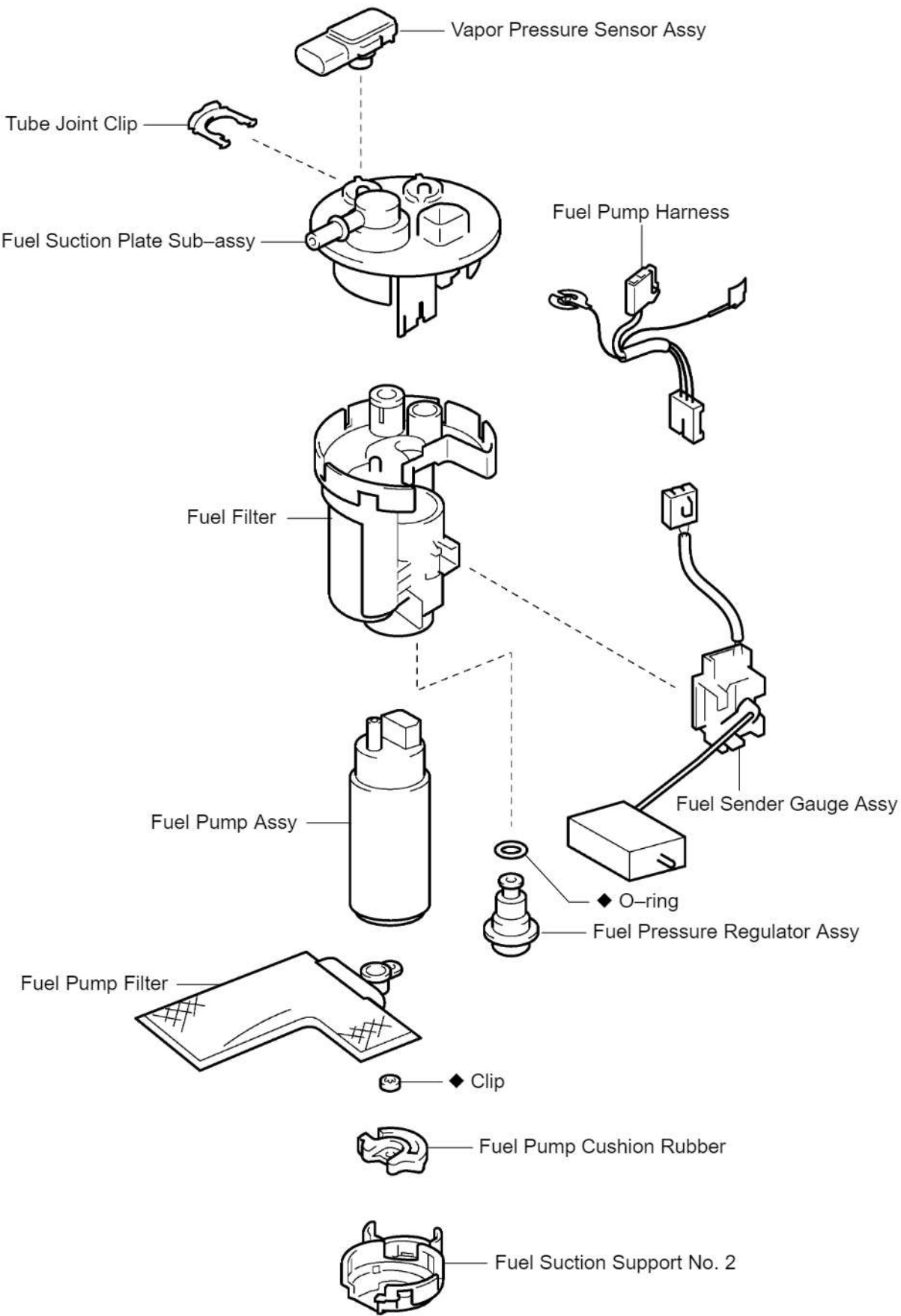
110FK-01



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

◆ Non-reusable part

A65087

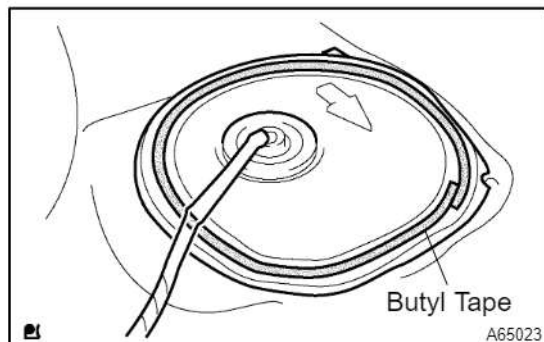


◆ Non-reusable part

A65021

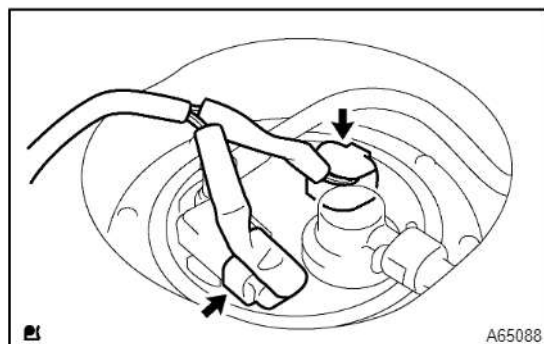
Removal & Installation and Disassembly & Reassembly

1. REMOVE BENCH TYPE REAR SEAT CUSHION ASSY (See page 72-6, 72-8)



2. REMOVE REAR FLOOR SERVICE HOLE COVER

(a) Remove the rear service hole cover.

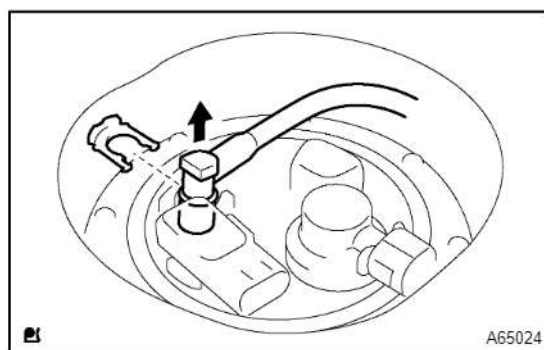


(b) Disconnect the fuel pump and vapor pressure sensor connector.

3. WORK FOR PREVENTING GASOLINE FROM SPILLING OUT

(a) Start the engine.

(b) After the engine has stopped on its own, turn the ignition switch to lock.

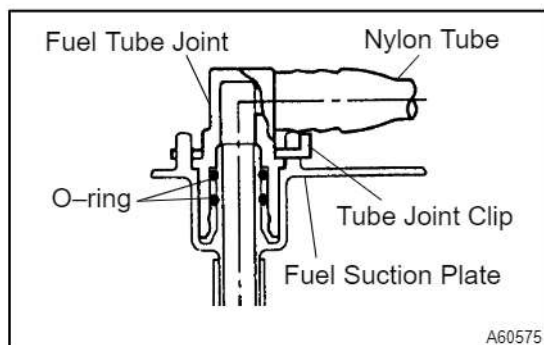


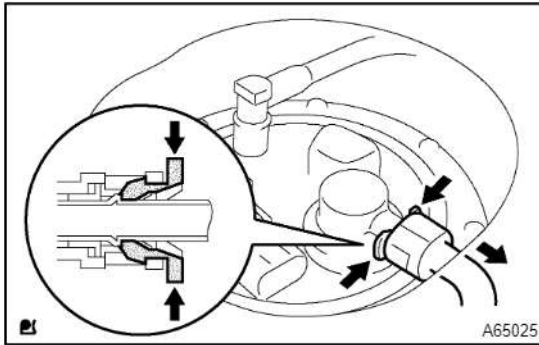
4. DISCONNECT FUEL TANK MAIN TUBE SUB-ASSY

(a) Remove the tube joint clip, and pull out the fuel tank main tube.

NOTICE:

- Check if there is any dirt like mud around the fuel tube joint before this work and clean dirt away.
- Be careful of dirt like mud because the fuel tube joint has an O-ring to seal the fuel tube joint and fuel suction plate.
- Do not use tool in this work.
- Do not bend or twist the nylon tube by force.
- After disconnecting, cover the fuel tube joint with a vinyl bag.
- When the fuel tube joint and fuel suction plate are stuck, pinch the fuel tank main tube between fingers, and turn it carefully to free and then disconnect the fuel tank main tube.



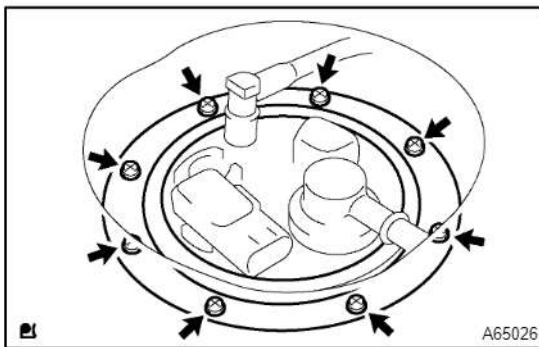
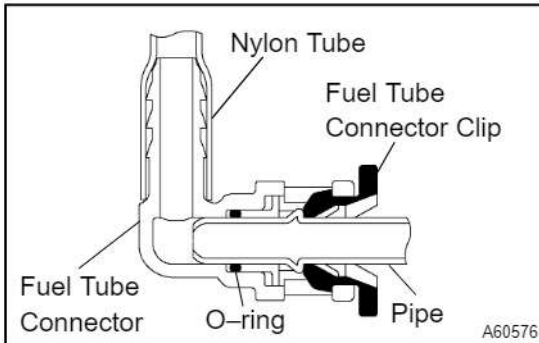


5. DISCONNECT FUEL EMISSION TUBE SUB-ASSY NO.1

- (a) Pinch the fuel tube connector clip and then pull out the fuel emission tube.

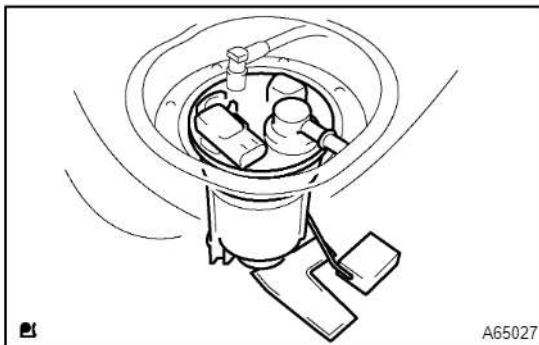
NOTICE:

- Check if there is any dirt like mud around the fuel tube connector before this work and clean dirt away.
- Be careful of dirt like mud because the fuel tube connector has an O-ring to seal the fuel tube connector and pipe.
- Do not use any tool in this work.
- Do not bend or twist the nylon tube by force.
- After disconnecting, cover the fuel tube connector with a vinyl bag.
- When the fuel tube connector and pipe are stuck, pinch the fuel emission tube between fingers, and turn it carefully to free and then disconnect the fuel emission tube.



6. REMOVE FUEL TANK VENT TUBE SET PLATE

- (a) Remove the 8 bolts and fuel tank vent tube set plate.

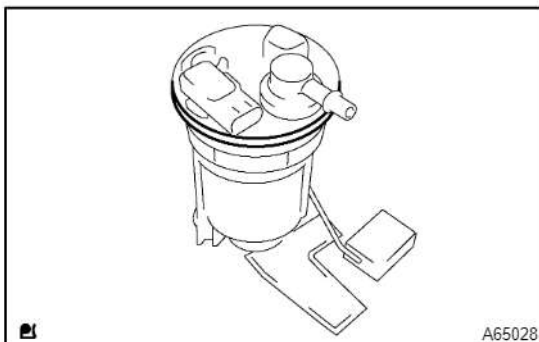


7. REMOVE FUEL PUMP ASSEMBLY

- (a) Pull out the fuel pump assembly.

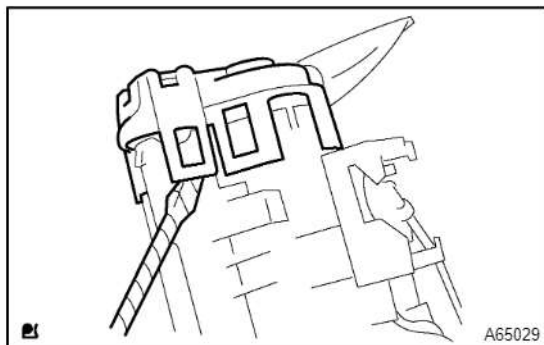
NOTICE:

- Do not damage the fuel pump filter.
- Be careful that the arm of the fuel sender gauge should not bent.



8. REMOVE FUEL SUCTION TUBE SET GASKET

- (a) Remove the gasket from the fuel pump assembly.

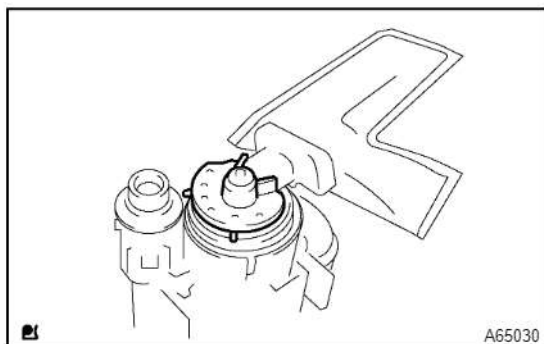


9. REMOVE FUEL SUCTION SUPPORT NO.2

- (a) Using a screwdriver, disconnect the 5 snap claws from the claw holes, and remove the fuel suction support.

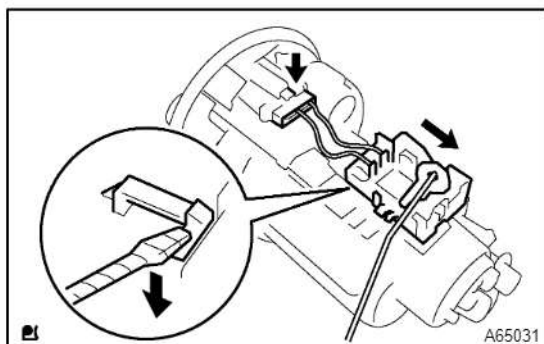
NOTICE:

Do not damage the fuel suction support.



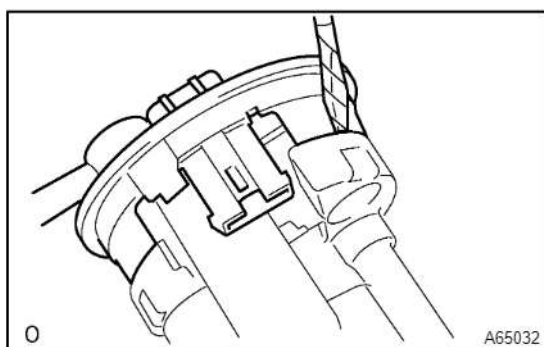
10. REMOVE FUEL PUMP CUSHION RUBBER

- (a) Remove the fuel pump cushion rubber.



11. REMOVE FUEL SENDER GAGE ASSY

- (a) Disconnect the fuel sender gage connector.
(b) Using a screwdriver, unlock the fuel sender gage, and slide it remove.

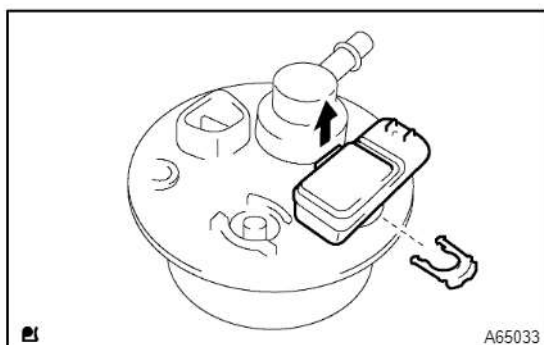


12. REMOVE FUEL SUCTION PLATE SUB-ASSY

- (a) Disconnect the fuel pump connector.
(b) Using a screwdriver, disconnect the 4 snap claws from the claw holes, and remove the fuel suction plate.

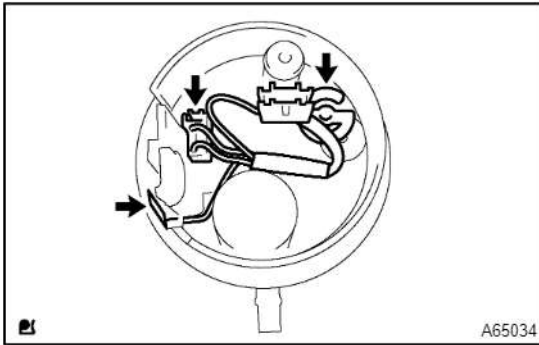
NOTICE:

Do not damage the fuel suction plate.

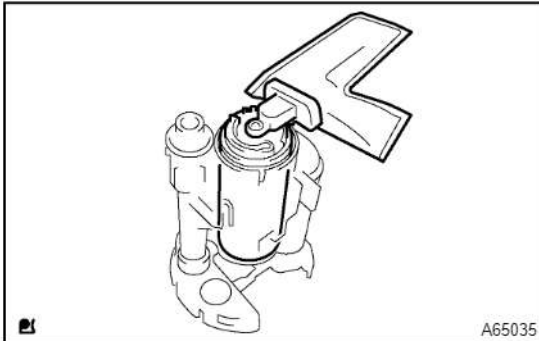


13. REMOVE VAPOR PRESSURE SENSOR ASSY

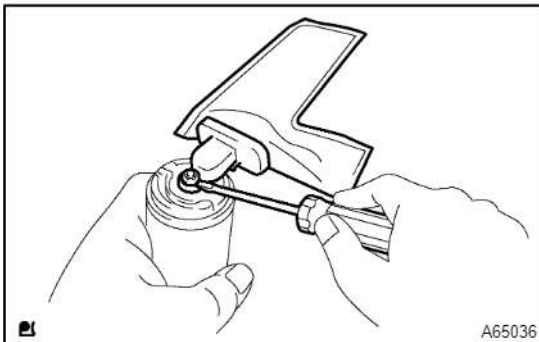
- (a) Remove the tube joint clip, and pull out the vapor pressure sensor.

**14. REMOVE FUEL PUMP HARNESS**

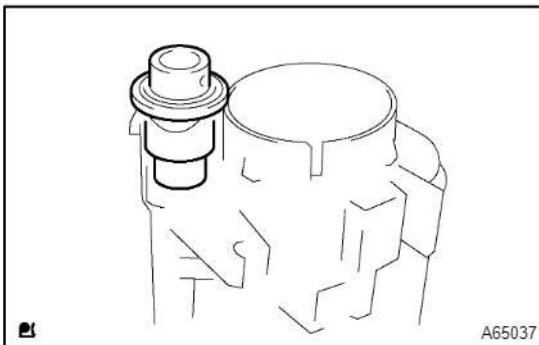
- (a) Remove the fuel pump harness from the fuel suction plate.

**15. REMOVE FUEL PUMP**

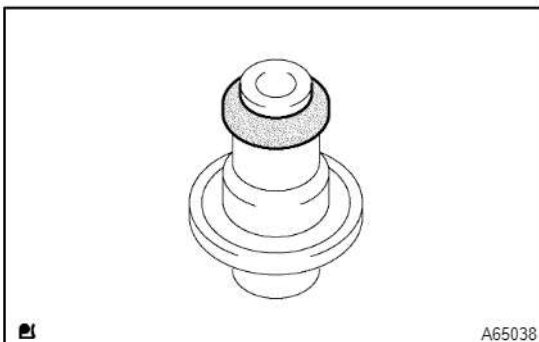
- (a) Pull out the fuel pump from the fuel filter.

**16. REMOVE FUEL PUMP FILTER**

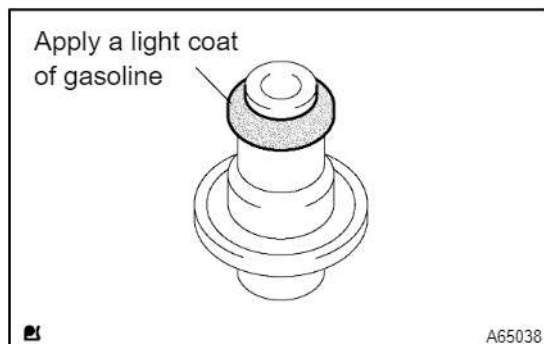
- (a) Using a small screwdriver, pry out the clip.
(b) Pull out the fuel pump filter from the fuel pump.

**17. REMOVE FUEL PRESSURE REGULATOR ASSY**

- (a) Pull out the fuel pressure regulator from the fuel filter.

**18. REMOVE FUEL PRESSURE REGULATOR O-RING**

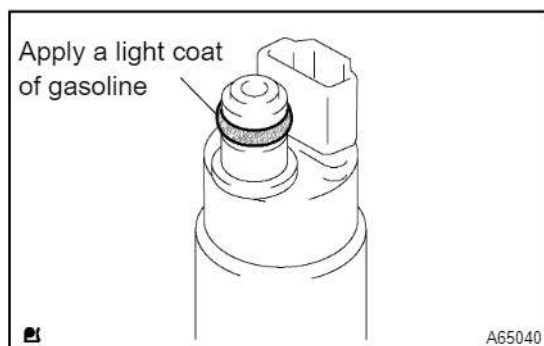
- (a) Remove an O-ring from the fuel pressure regulator.

**19. INSTALL FUEL PRESSURE REGULATOR O-RING**

- (a) Apply a light coat of gasoline to a new O-ring, and install it to the fuel pressure regulator.

20. INSTALL FUEL PUMP FILTER

- (a) Install the fuel pump filter with a new clip.

**21. INSTALL FUEL PUMP**

- (a) Apply a light coat of gasoline to an O-ring, and install the fuel pump to the fuel filter.

22. INSTALL VAPOR PRESSURE SENSOR ASSY

- (a) Install the vapor pressure sensor with the tube joint clip.

NOTICE:

- Check that there is no scratch or foreign objects on the connecting parts.
- Check that the fuel tube joint is inserted fully and securely.
- Check that the tube joint clip is on the collar of the fuel tube joint.
- After installing the tube joint clip, check that the fuel tube joint is not pulled off.

23. INSTALL FUEL SUCTION TUBE SET GASKET

- (a) Install a new gasket to the fuel pump assembly.

24. INSTALL FUEL PUMP ASSEMBLY

- (a) Install the fuel pump assembly to the fuel tank.

NOTICE:

- Do not damage the fuel pump filter.
- Be careful that the arm of the fuel sender gauge should not bent.

25. INSTALL FUEL TANK VENT TUBE SET PLATE

- (a) Install the fuel tank vent tube set plate with the 8 bolts.

Torque: 6.0 N·m (61 kgf·cm, 53 in·lbf)

26. CONNECT FUEL EMISSION TUBE SUB-ASSY NO.1

- (a) Push in the fuel emission tube to the pipe until fuel tube connector makes "click" sound.

NOTICE:

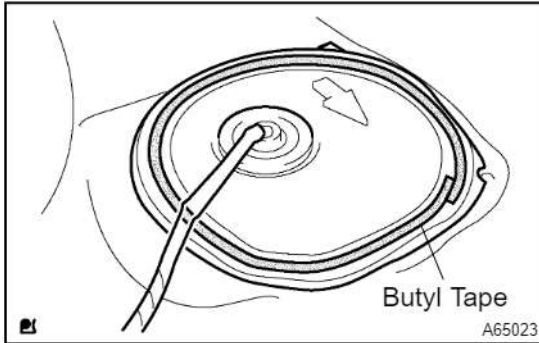
- Check if there is any damage or foreign objects on the connected part.
- After connecting, check if the fuel tube connector and pipe are securely connected by pulling them.

27. CONNECT FUEL TANK MAIN TUBE SUB-ASSY

- (a) Connect the fuel tank main tube with the tube joint clip.

NOTICE:

- Check that there is no scratch or foreign objects on the connecting parts.
- Check that the fuel tube joint is inserted fully and securely.
- Check that the tube joint clip is on the collar of the fuel tube joint.
- After installing the tube joint clip, check that the fuel tube joint is not pulled off.

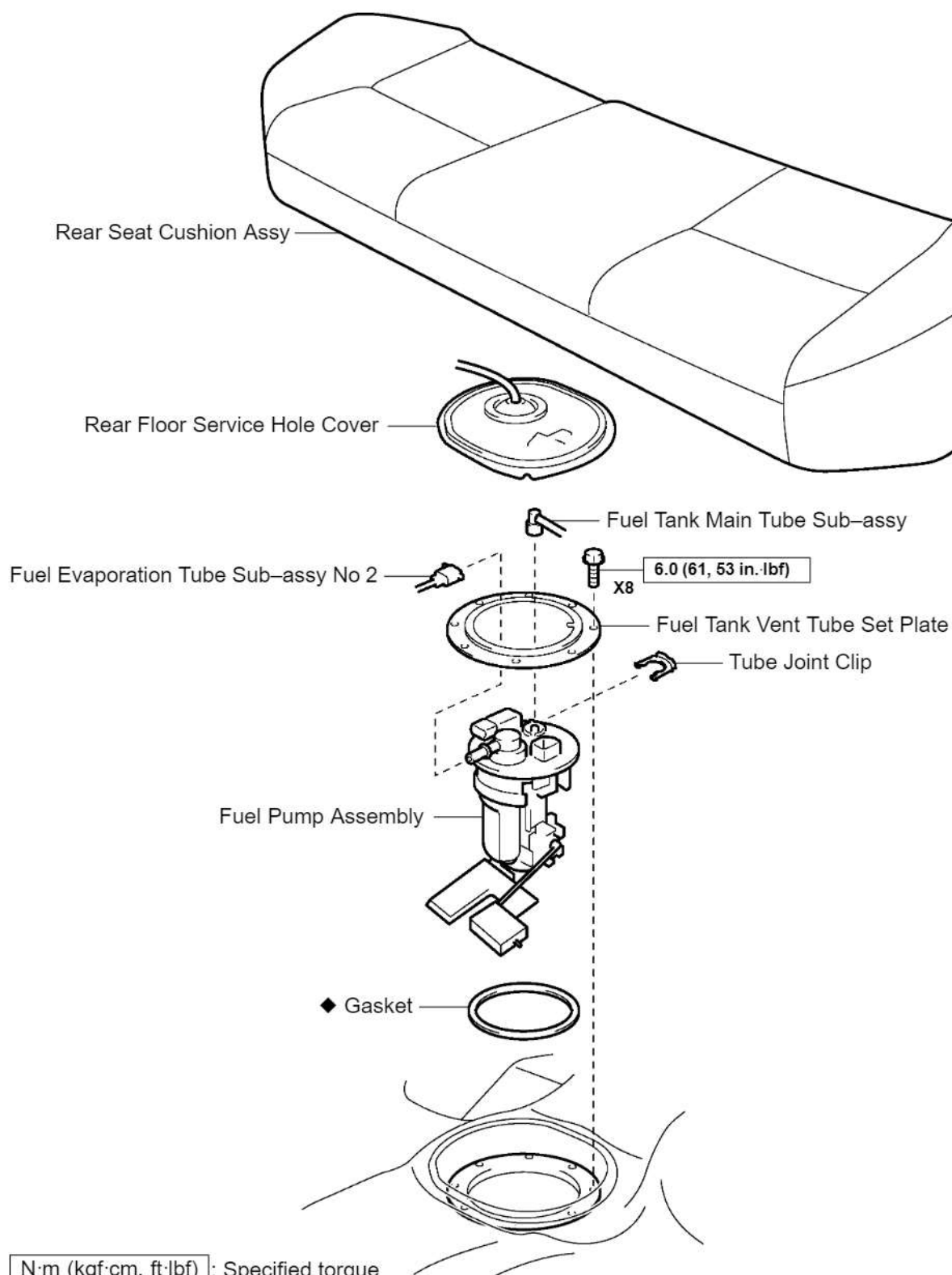
28. CHECK FUEL LEAK (See page 11-1)**29. INSTALL REAR FLOOR SERVICE HOLE COVER**

- (a) Using the butyl tape, install the rear floor service hole cover.

30. INSTALL BENCH TYPE REAR SEAT CUSHION ASSY (See page 72-6, 72-8)

FUEL TANK ASSY COMPONENTS

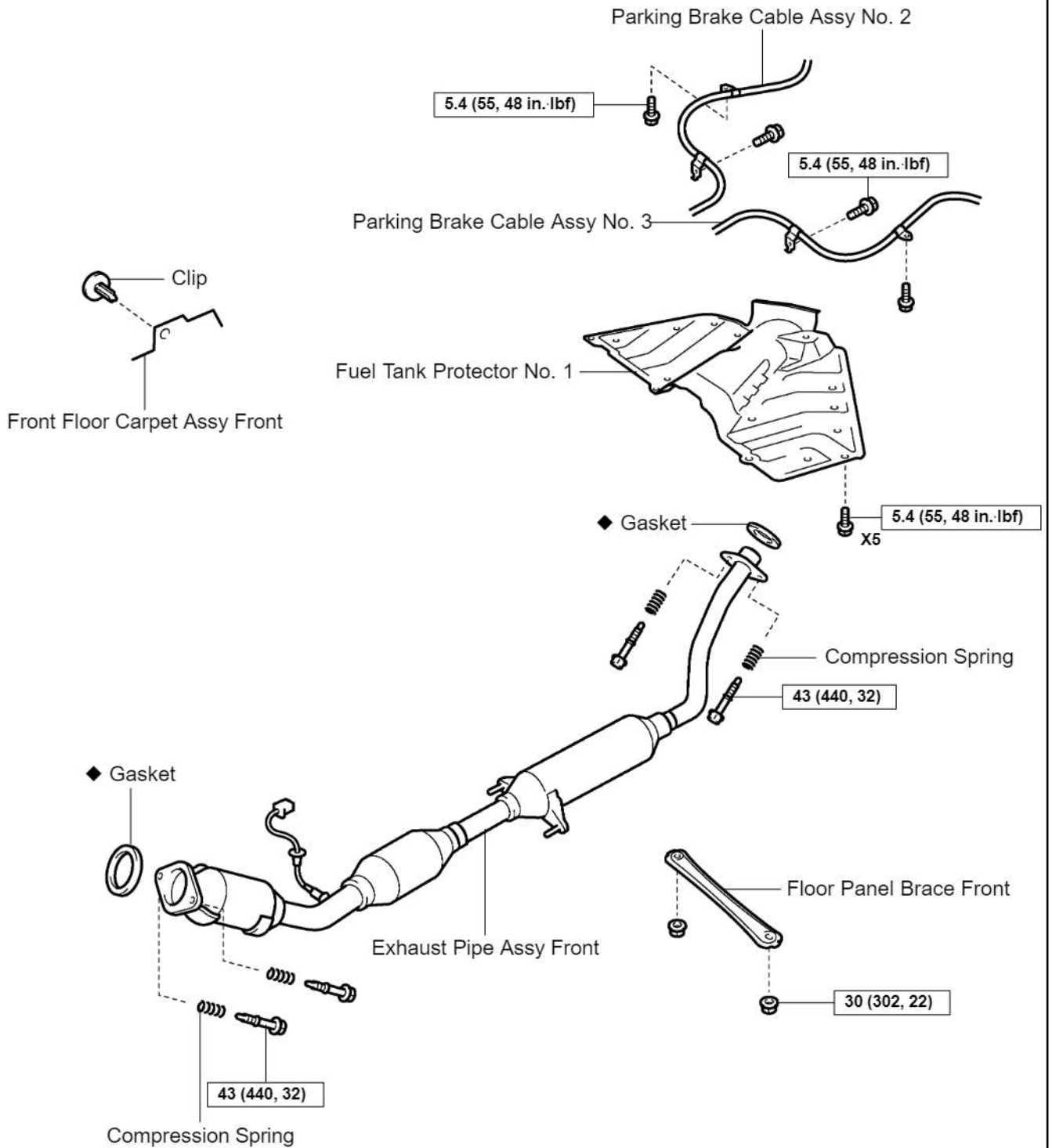
110FD-01



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

◆ Non-reusable part

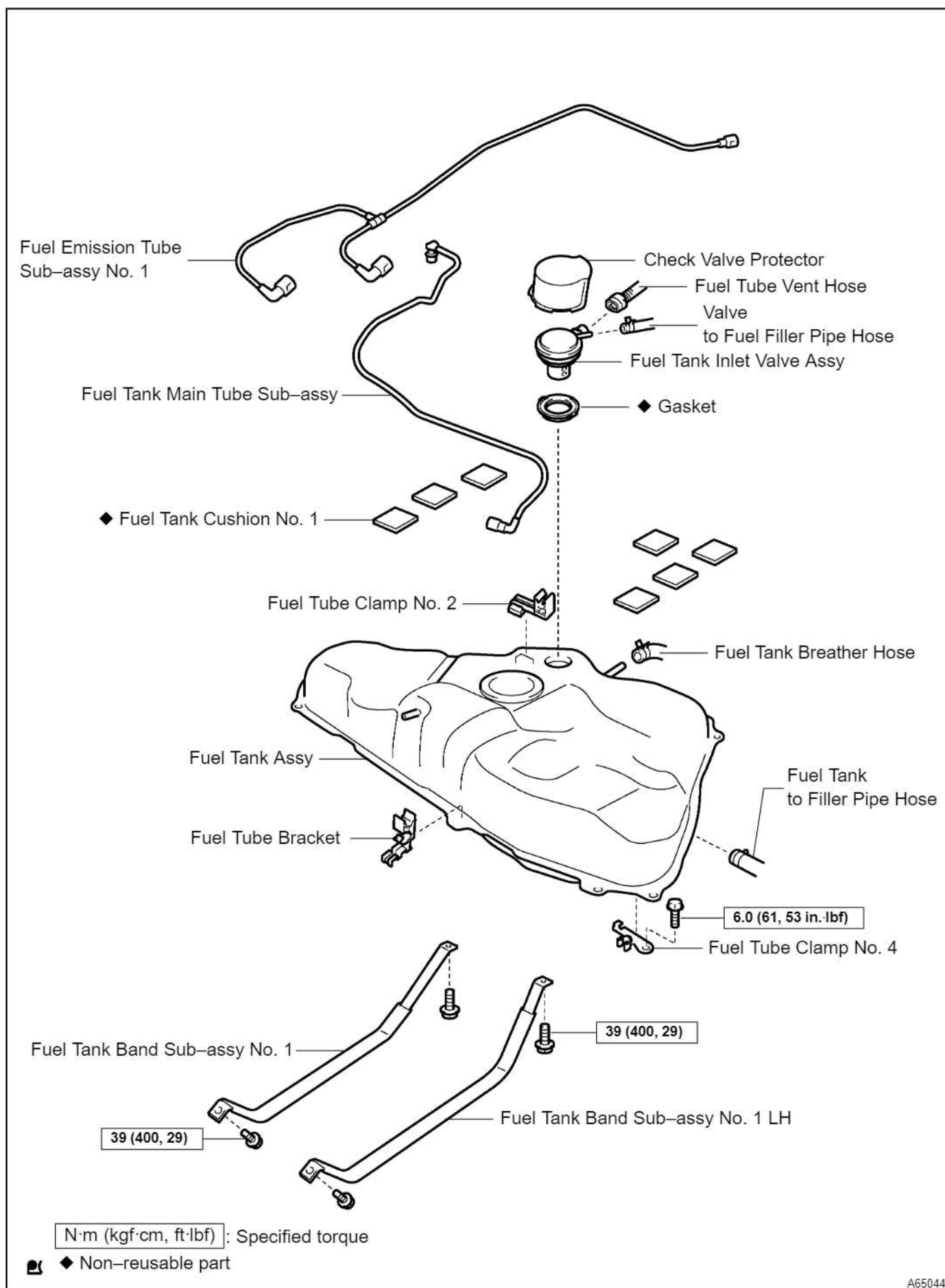
A65087



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

◆ Non-reusable part

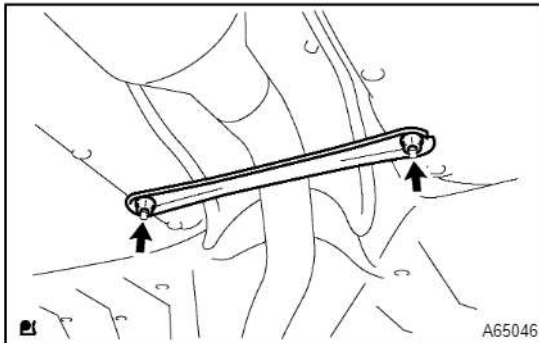
A65709



A65044

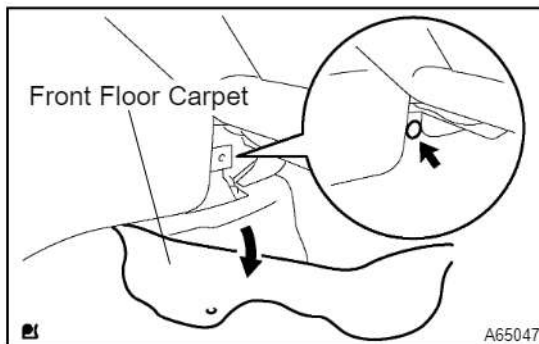
Removal & Installation and Disassembly & Reassembly

1. REMOVE BENCH TYPE REAR SEAT CUSHION ASSY (See page 72-6, 72-8)
2. REMOVE REAR FLOOR SERVICE HOLE COVER (See page 11-16)
3. WORK FOR PREVENTING GASOLINE FROM SPILLING OUT
 - (a) Start the engine.
 - (b) After the engine has stopped on the its own, turn the ignition switch to lock.
4. DISCONNECT FUEL TANK MAIN TUBE SUB-ASSY (See page 11-16)
5. DISCONNECT FUEL EMISSION TUBE SUB-ASSY NO.1 (See page 11-16)
6. REMOVE FUEL TANK VENT TUBE SET PLATE (See page 11-16)
7. REMOVE FUEL PUMP ASSEMBLY (See page 11-16)
8. REMOVE FUEL SUCTION TUBE SET GASKET
9. DRAIN FUEL



10. REMOVE FLOOR PANEL BRACE FRONT

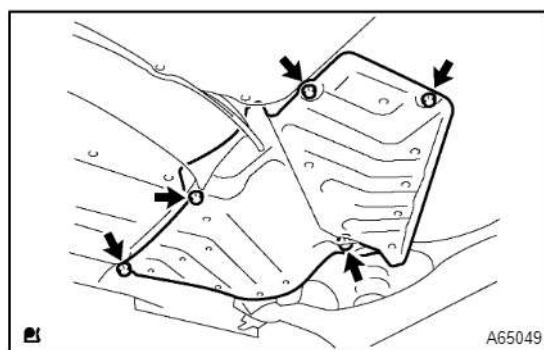
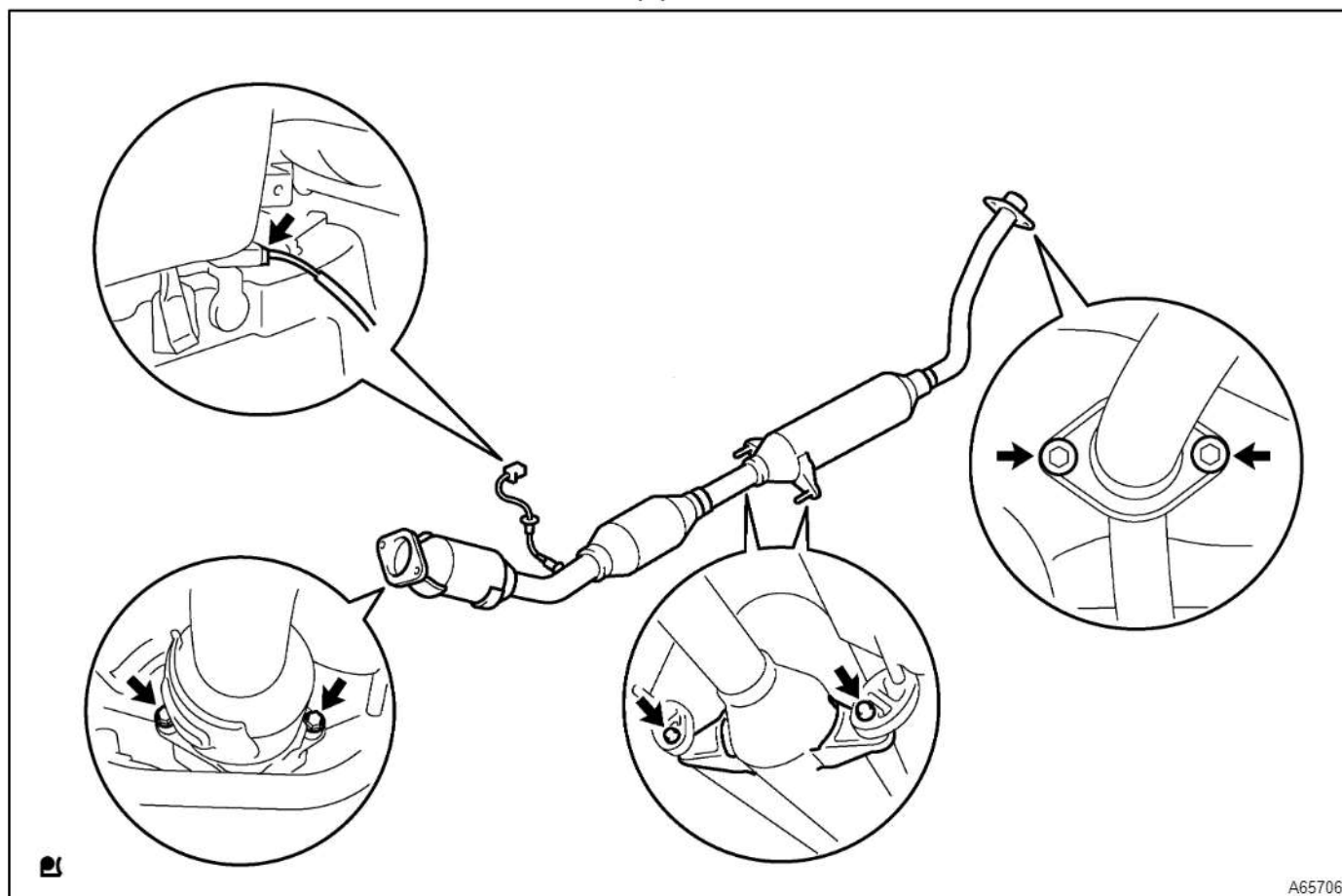
- (a) Remove the 2 nuts and floor panel brace front.



11. REMOVE EXHAUST PIPE ASSY FRONT

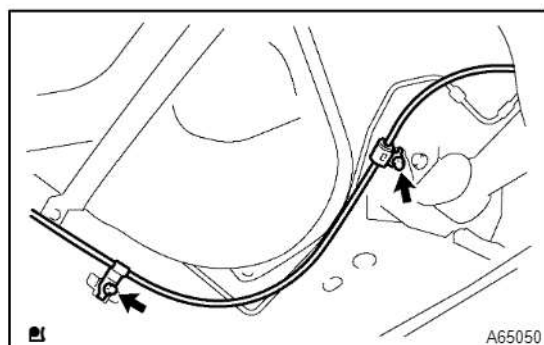
- (a) Using a clip remover, remove the clip.
- (b) Tear off the front floor carpet.

- (c) Disconnect the oxygen sensor connector.
- (d) Remove the 2 exhaust pipe supports.
- (e) Remove the 4 bolts, 4 compression springs and exhaust pipe.



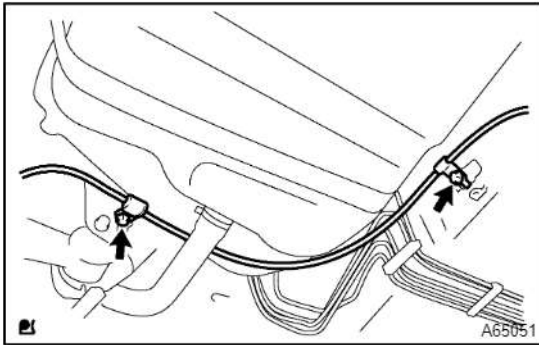
12. REMOVE FUEL TANK PROTECTOR NO.1

- (a) Remove the 5 bolts and fuel tank protector.



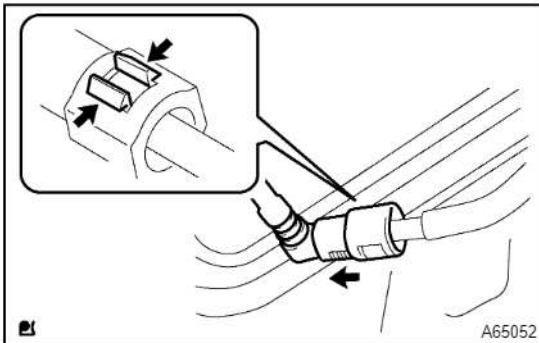
13. SEPARATE PARKING BRAKE CABLE ASSY NO.2

- (a) Remove the 2 installing bolts of the parking brake cable.



14. SEPARATE PARKING BRAKE CABLE ASSY NO.3

- (a) Remove the 2 installing bolts of the parking brake cable.

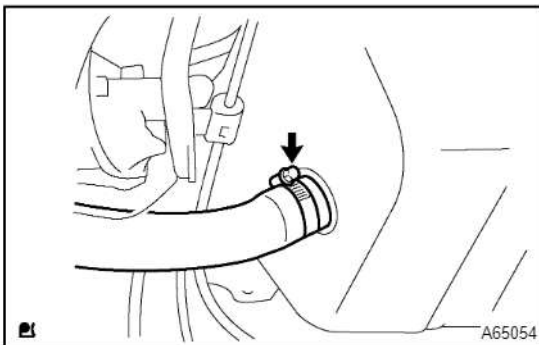
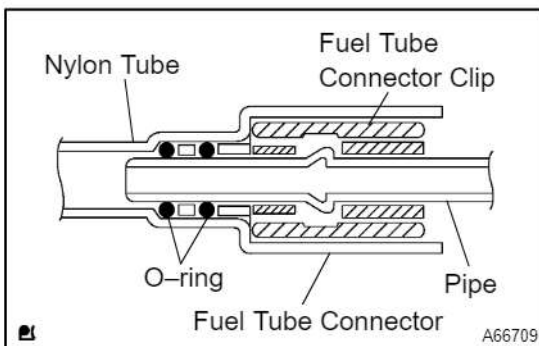


15. DISCONNECT FUEL TANK MAIN TUBE SUB-ASSY

- (a) Pinch the fuel tube connector clip, and remove the fuel tube connector clip.
(b) Pull out the fuel tank main tube.

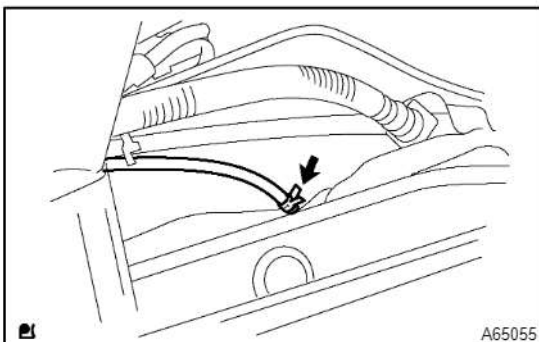
NOTICE:

- Check if there is any dirt like mud around the fuel tube connector before this work and clean the dirt away.
- Be careful of dirt like mud because the fuel tube connector has an O-ring to seal the fuel tube connector and pipe.
- Do not use any tool in this work.
- Do not bend or twist the nylon tube by force.
- After disconnecting, cover the fuel tube connector with a vinyl bag.
- When the fuel tube connector and pipe are stuck, pinch the fuel tank main tube between fingers, and turn it carefully to free and then disconnect the fuel tank main tube.



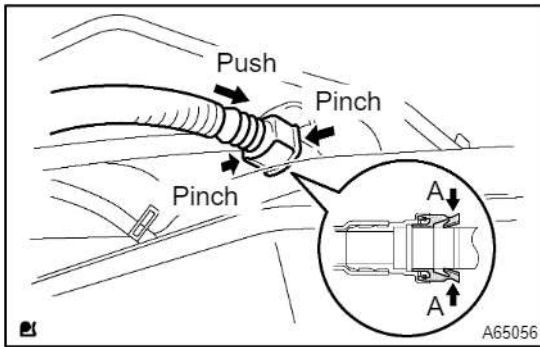
16. DISCONNECT FUEL TANK INLET PIPE FUEL HOSE

- (a) Disconnect the fuel tank inlet filler pipe hose from the fuel tank.

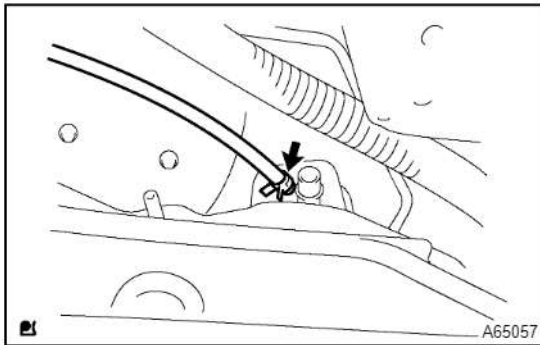


17. DISCONNECT FUEL TANK BREATHER HOSE

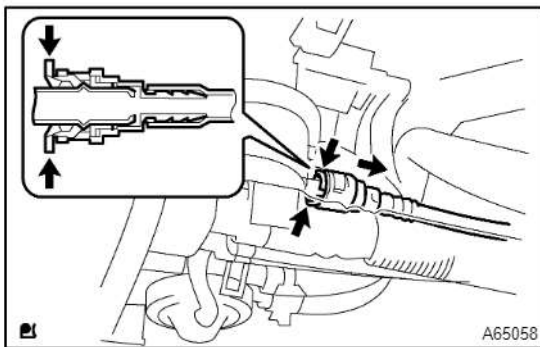
- (a) Disconnect the fuel tank breather hose from the fuel tank.

**18. DISCONNECT FUEL TANK VENT HOSE**

- (a) Disconnect the fuel tank bent hose from the charcoal canister.
- (1) Push the connector deep inside.
 - (2) Pinch portion A.
 - (3) Pull out the connector.

**19. DISCONNECT VALVE TO FUEL FILLER PIPE HOSE**

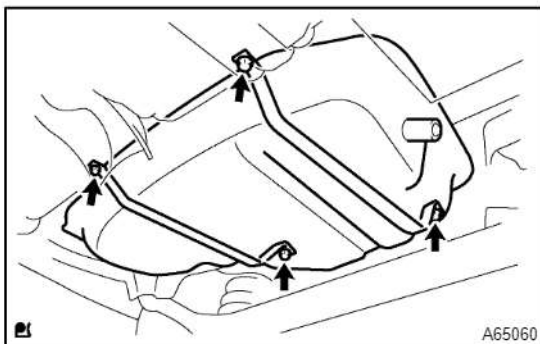
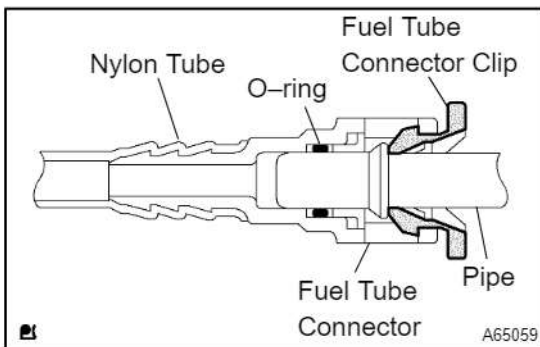
- (a) Disconnect the valve to fuel filler pipe hose from the fuel tank inlet pipe.

**20. DISCONNECT FUEL EMISSION TUBE SUB-ASSY NO.1**

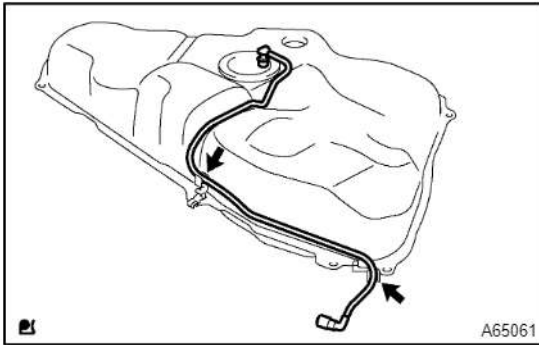
- (a) Pinch the fuel tube connector clip and then pull out the fuel emission tube.

NOTICE:

- Check if there is any dirt like mud around the fuel tube connector before this work and clean the dirt away.
- Be careful of dirt like mud because the fuel tube connector has an O-ring to seal the fuel tube connector and pipe.
- Do not use any tool in this work.
- Do not bend or twist the nylon tube by force.
- After disconnecting, cover the fuel tube connector with a vinyl bag.
- When the fuel tube connector and pipe are stuck, pinch the fuel emission tube between fingers, and turn it carefully to free and then disconnect the fuel emission tube.

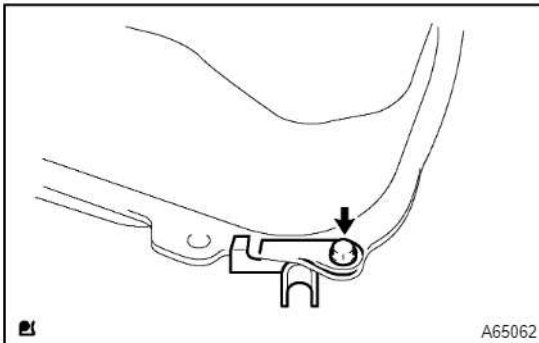
**21. REMOVE FUEL TANK ASSY**

- (a) Set a mission jack to the fuel tank.
- (b) Remove the 4 bolts, 2 fuel tank bands and fuel tank.



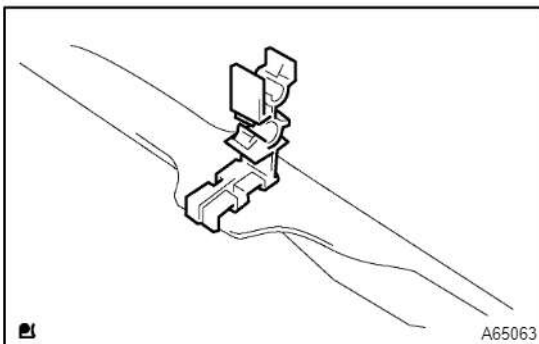
22. REMOVE FUEL TANK MAIN TUBE SUB-ASSY

- (a) Remove the fuel tank main tube from the fuel tube clamp and bracket.



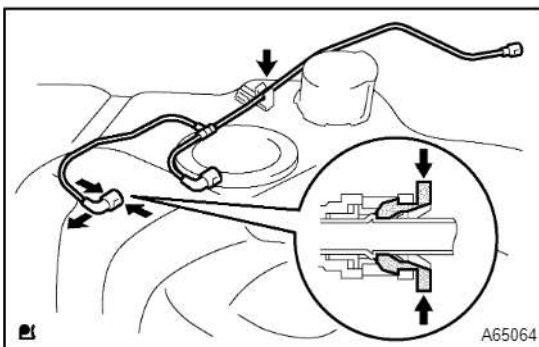
23. REMOVE FUEL TUBE CLAMP NO.4

- (a) Remove the bolt and fuel tank clamp.



24. REMOVE FUEL TUBE BRACKET

- (a) Remove the fuel tube bracket from the fuel tank.

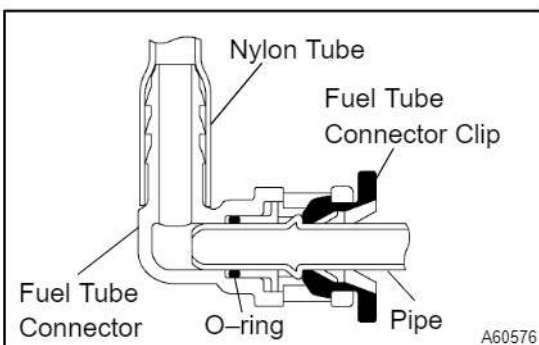


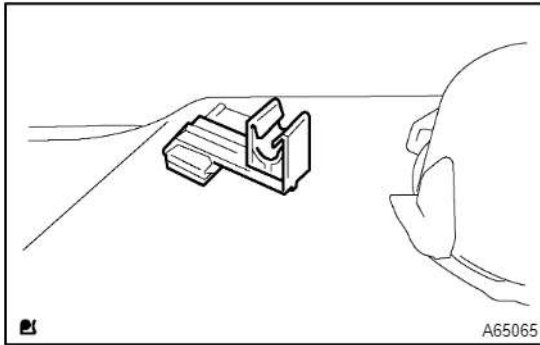
25. REMOVE FUEL EMISSION TUBE SUB-ASSY NO.1

- (a) Pinch the fuel tube connector clip and then pull out the fuel emission tube.

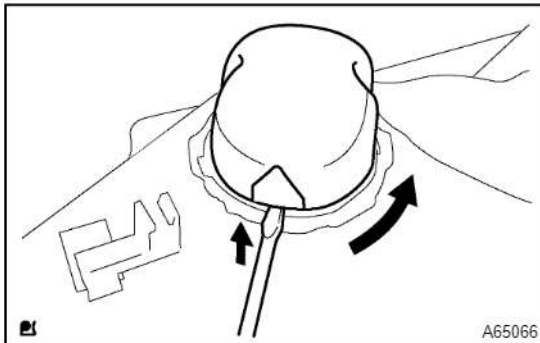
NOTICE:

- Check if there is any dirt like mud around the fuel tube connector before this work and clean the dirt away.
- Be careful of dirt like mud because the fuel tube connector has an O-ring to seal the fuel tube connector and pipe.
- Do not use tool in this work.
- Do not bend or twist the nylon tube by force.
- After disconnecting, cover the fuel tube connector with a vinyl bag.
- When the fuel tube connector and pipe are stuck, pinch the fuel emission tube between fingers, and turn it carefully to free and then disconnect the fuel emission tube.

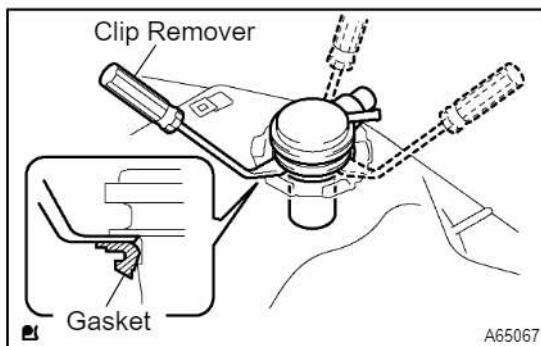


**26. REMOVE FUEL TUBE CLAMP NO.2**

- (a) Remove the fuel tube clamp from the fuel tank.

**27. REMOVE CHECK VALVE PROTECTOR**

- (a) Using a screwdriver, unlock the claw, and remove the check valve protector by turning it counter clockwise.

**28. REMOVE FUEL TANK INLET VALVE ASSY**

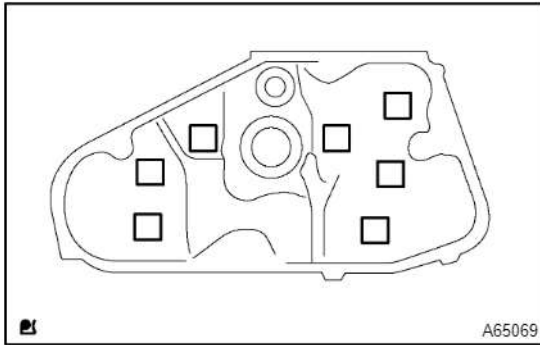
- (a) Insert a clip remover between the fuel tank inlet valve and gasket, remove the fuel tank inlet valve by gradually pushing it upward.

NOTICE:

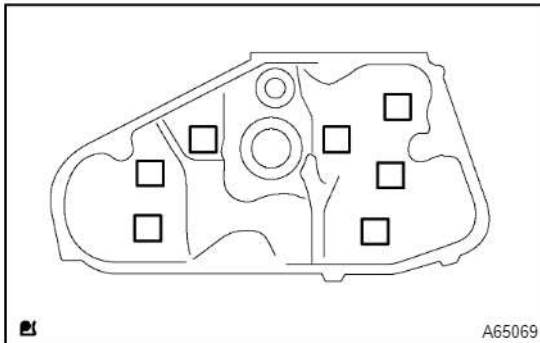
- Work accurately to maintain the sealing performance of the fuel tank inlet valve, since it is made from resin. It is easy to damage by removing and installing forcibly.
- Be sure to install a new fuel tank inlet valve and gasket.

**29. REMOVE CHECK VALVE GASKET**

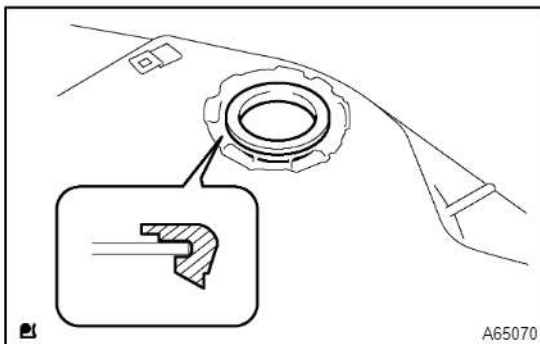
- (a) Remove the gasket from the fuel tank inlet valve.

**30. REMOVE FUEL TANK CUSHION NO.1**

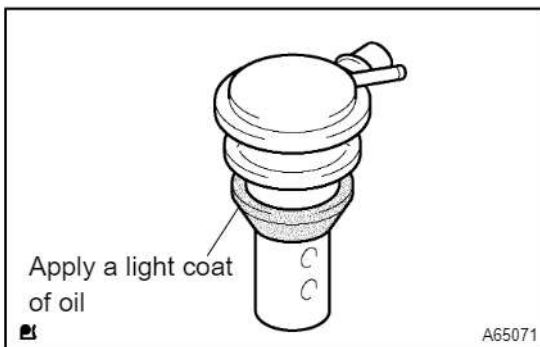
- (a) Remove the 7 fuel tank cushions from the fuel tank.

**31. INSTALL FUEL TANK CUSHION NO.1**

- (a) Install the 7 new fuel tank cushions to the fuel tank.

**32. INSTALL CHECK VALVE GASKET**

- (a) Install a new gasket to the fuel tank.

**33. INSTALL FUEL TANK INLET VALVE ASSY**

- (a) Apply a light coat of oil around the fuel tank inlet valve as shown in the illustration, and insert it into the fuel tank without force.

NOTICE:

Be careful not to drop the gasket into the fuel tank.

34. INSTALL FUEL EMISSION TUBE SUB-ASSY NO.1

- (a) Push in the fuel tube connector to the pipe until fuel tube connector makes "click" sound.

NOTICE:

- Check if there is any damage or foreign objects on the connected part.
- After connecting, check if the fuel tube connector and pipe are securely connected by pulling them.

35. INSTALL FUEL TUBE CLAMP NO.4

- (a) Install the fuel tube clamp with the bolt.
Torque: 6.0 N·m (61 kgf·cm, 53 in.·lbf)

36. INSTALL FUEL TANK ASSY

- (a) Set a mission jack to the fuel tank.
- (b) Install the fuel tank and 2 fuel tank bands with the 4 bolts.

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

37. CONNECT FUEL EMISSION TUBE SUB-ASSY NO.1

- (a) Push in the fuel tube connector to the pipe until fuel tube connector makes "click" sound.

NOTICE:

- Check if there is any damage or foreign objects on the connected part.
- After connecting, check if the fuel tube connector and pipe are securely connected by pulling them.

38. CONNECT FUEL TANK MAIN TUBE SUB-ASSY

- (a) Push in the fuel tube connector to pipe until fuel tube connector, and install the fuel tube connector clip.

NOTICE:

- Check if there is any damage or foreign objects on the connected part.
- After connecting, check if the fuel tube connector and pipe are securely connected by pulling them.

39. INSTALL PARKING BRAKE CABLE ASSY NO.3

- (a) Install the parking brake cable with the 2 bolts.

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

40. INSTALL PARKING BRAKE CABLE ASSY NO.2

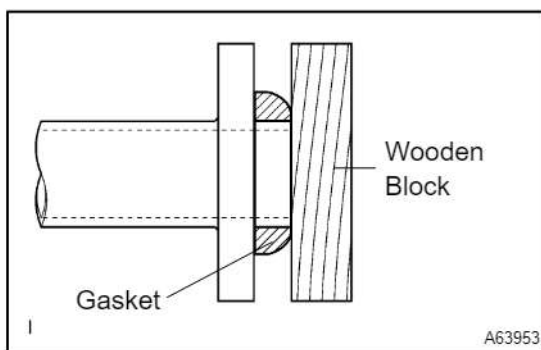
- (a) Install the parking brake cable with the 2 bolts.

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

41. INSTALL FUEL TANK PROTECTOR NO.1

- (a) Install the fuel tank protector with the 5 bolts.

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

**42. INSTALL EXHAUST PIPE ASSY FRONT**

- (a) Using vernier calipers, measure the free length of the compression spring.

Free length:

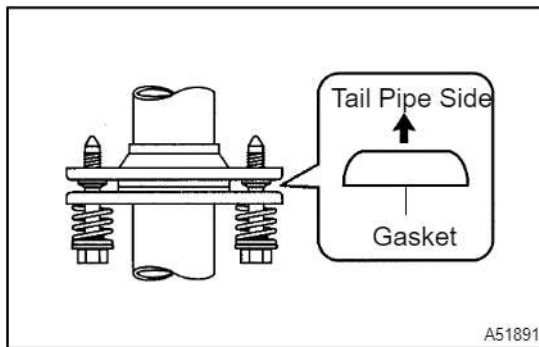
Front side 43mm (1.6929 in.)

Rear side 40mm (1.5748 in.)

- (b) Using a hammer and wooden block, tap in a new gasket until its surface is flush with the exhaust manifold.

NOTICE:

- Tap in the gasket in the correct direction.
- Do not reuse the removed gasket.
- Be sure not to push in the gasket by installing the exhaust pipe.



- (c) Install a new gasket on the exhaust pipe (rear side).
- (d) Install the exhaust pipe with the 4 compression springs and 4 bolts.

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)

- (e) Install the 2 exhaust pipe supports.
- (f) Connect the oxygen sensor connector.
- (g) Install the front floor carpet with a clip.

43. INSTALL FLOOR PANEL BRACE FRONT

- (a) Install the floor panel brace front with the 2 nuts.

Torque: 30 N·m (302 kgf·cm, 22 ft·lbf)

44. INSTALL FUEL SUCTION TUBE SET GASKET (See page 11-16)

45. INSTALL FUEL PUMP ASSEMBLY (See page 11-16)

46. INSTALL FUEL TANK VENT TUBE SET PLATE (See page 11-16)

47. CONNECT FUEL EMISSION TUBE SUB-ASSY NO.1 (See page 11-16)

48. CONNECT FUEL TANK MAIN TUBE SUB-ASSY (See page 11-16)

49. CHECK FUEL LEAK (See page 11-1)

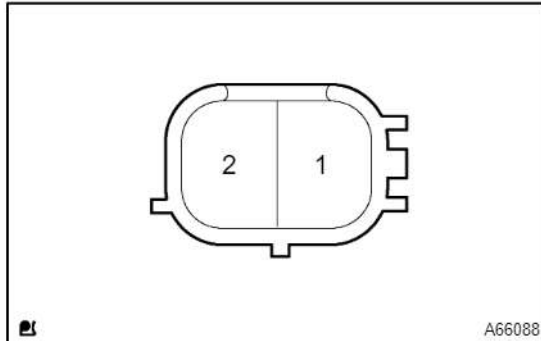
50. CHECK EXHAUST GAS LEAK

51. INSTALL REAR FLOOR SERVICE HOLE COVER (See page 11-16)

52. INSTALL BENCH TYPE REAR SEAT CUSHION ASSY (See page 72-6, 72-8)

INSPECTION

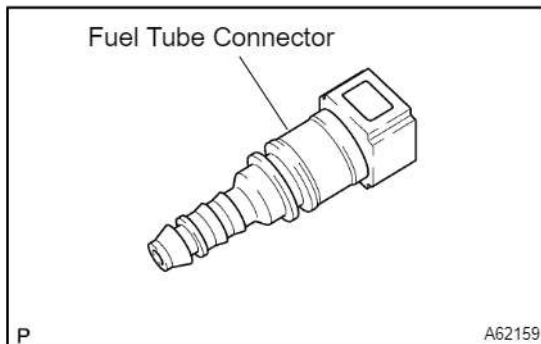
110FH-01



1. FUEL INJECTOR ASSY

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

Resistance: 13.4 – 14.2 Ω at 20°C (68°F)



- (b) Inspect injector inspection

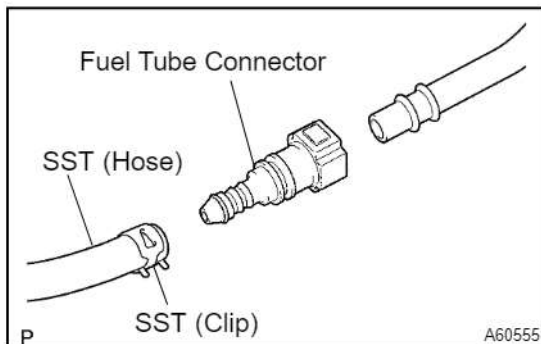
CAUTION:

Keep injector clear of sparks during the test.

- (1) Purchase a new fuel tube, and take out the fuel tube connector from its tube.

HINT:

Part No. 23901-0D010

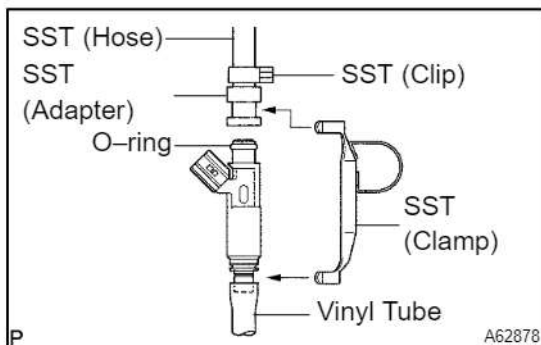


- (2) Connect SST and fuel tube connector to the fuel pipe.

SST 09268-41047 (90467-13001, 95336-08070)

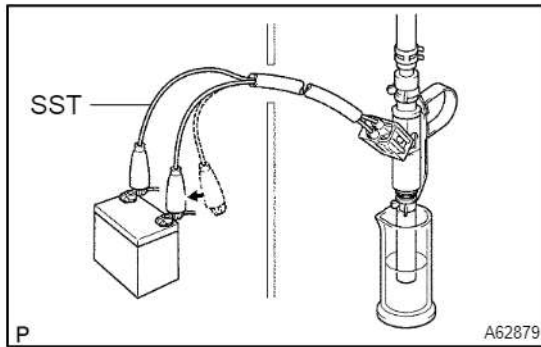
CAUTION:

Perform connecting operations of the fuel tube connector (quick type) after observing the precautions.



- (3) Install an O-ring to the fuel injector.
- (4) Connect SST (union and hose) to fuel the injector, and hold the fuel injector to prevent gasoline from splashing out. (See page 11-1)

SST 09268-41047 (90467-13001, 95336-08070, 09268-41110, 09268-41300)



- (5) Put the fuel injector into a graduated cylinder.

HINT:

Install a suitable vinyl tube onto the injector to prevent gasoline from splashing out.

- (6) Operate the fuel pump.

- (7) Connect SST to the connector of fuel injector.

SST 09842-30080

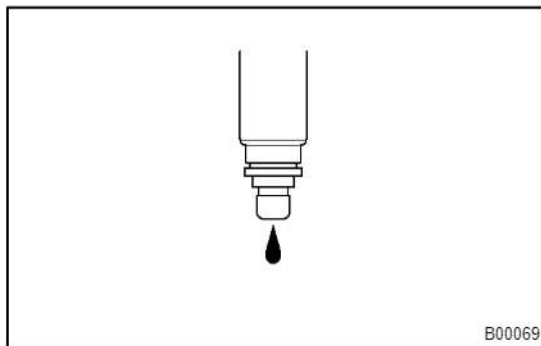
- (8) Connect SST to the battery for 15 seconds, and measure the injection volume with a graduated cylinder. Test the each fuel injector 2 or 3 time.

Injection volume:

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

Difference between each injector:

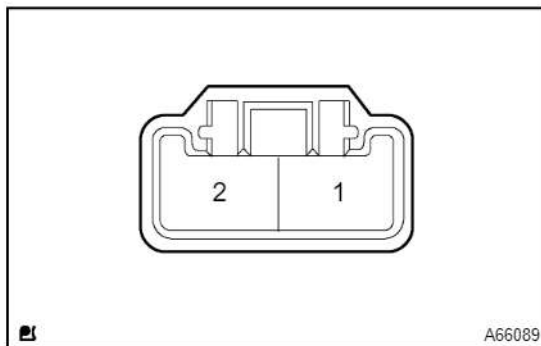
13 cm³ (0.8 cu in.) or less



- (c) Inspect leakage

- (1) In the condition above, disconnect the test probes of the from the battery, and check the fuel leakage from the fuel injector.

Fuel drop: 1 drop or less per 12 minutes



2. FUEL PUMP

- (a) Inspect fuel pump resistance.

- (1) Using an ohmmeter, measure the resistance between the terminals.

Resistance: 0.2 – 3.0 Ω at 20°C (68°F)

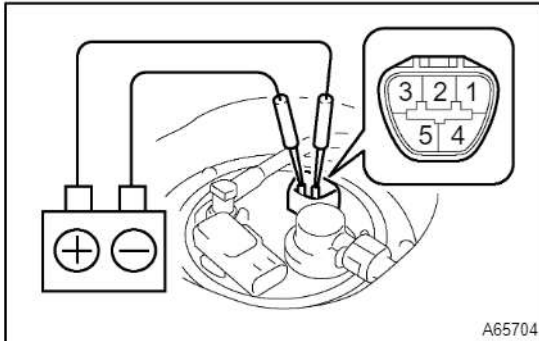
- (b) Inspect fuel pump operation

- (1) Apply battery voltage to both terminals. Check that the pump operates.

NOTICE:

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

ON-VEHICLE INSPECTION



1. CHECK FUEL PUMP OPERATION

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

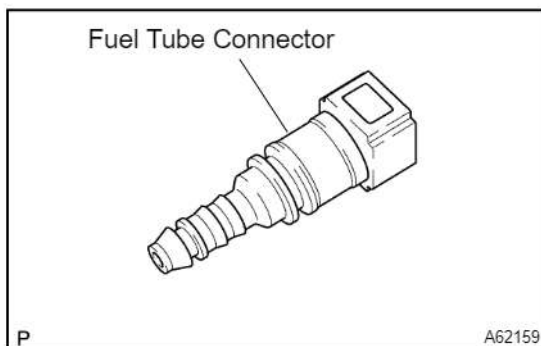
NOTICE:

Do not start the engine.

- (c) Select the active test mode on the hand-held tester.
- (d) Please refer to the hand-held tester operator's manual for further details.
- (e) If you have no hand-held tester, connect the positive (+) lead from the battery to terminal 4 of the connector, and the negative (–) lead to terminal 5.

NOTICE:

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



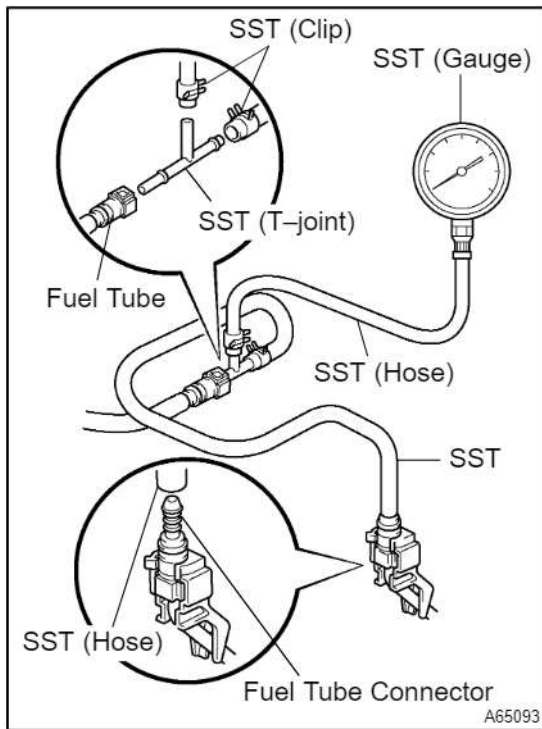
2. CHECK FUEL PRESSURE

- (a) Prepare for inspection.
 - (1) Purchase a new fuel tube, and take out the fuel tube connector from its tube.

HINT:

Part No. 23901-0D010

- (b) Work for prevent gasoline from spilling out.
(See page 11-1)
- (c) Disconnect the EFI fuel pipe clamp. (See page 11-1)
- (d) Disconnect the fuel tube from the fuel main tube.
(See page 11-1)



- (e) Install SST (pressure gauge) as shown in the illustration by using the SST and fuel tube connector.
 SST 09268-41047 (90467-13001, 95336-08070),
 09268-45014 (09268-41200, 09268-41220,
 09268-41250, 90467-13001)

- (f) Wipe off any splattered gasoline.
 (g) Start the engine.
 (h) Measure the fuel pressure at idle.

Fuel pressure:

304 – 343 kPa (3.1 – 3.5 kgf·cm², 44 – 50 psi)

- (i) Stop the engine.
 (j) 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

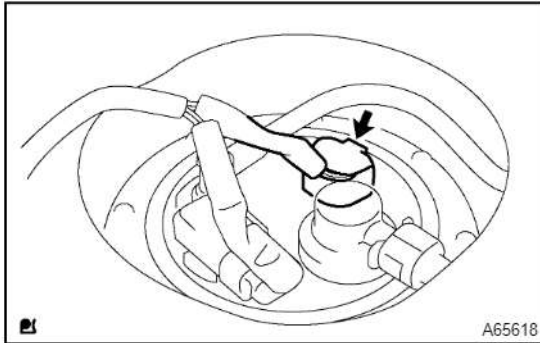
If pressure is not as specified, check the fuel pump, pressure regulator and/or injectors.

- (k) After checking fuel pressure, disconnect the negative (–) terminal cable from the battery and carefully, remove the SST and fuel tube connector to prevent gasoline from the splashing.
 (l) Reconnect the fuel tube to fuel main tube.
 (m) Install the EFI fuel pipe clamp.
 (n) Check fuel leak. (See page 11-1)

FUEL SYSTEM

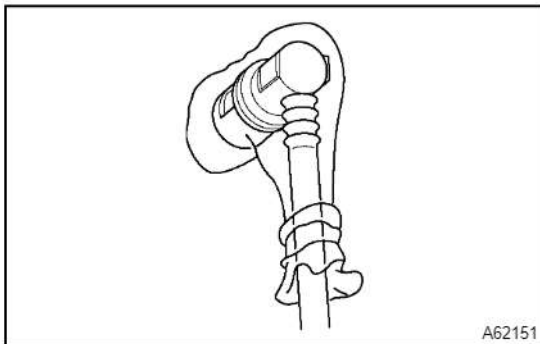
PRECAUTION

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



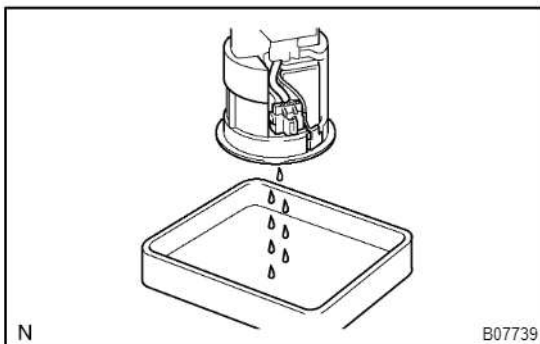
4. WORK FOR PREVENT GASOLINE FROM SPILLING OUT

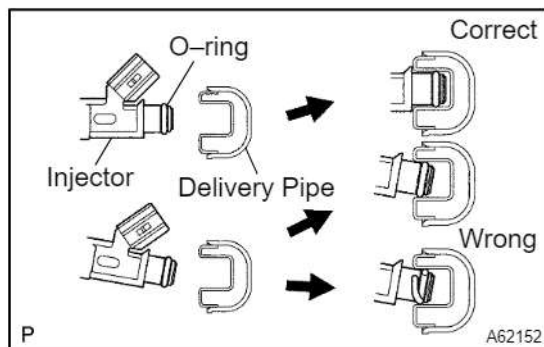
- (a) Remove the rear seat cushion.
(See page 72-6, 72-8)
- (b) Remove rear floor service hole cover.
(See page 11-16)
- (c) Disconnect the fuel pump connector.
- (d) Start the engine. After the engine has stopped on its own, turn the ignition switch to lock.
- (e) Disconnect negative (–) terminal cable from battery.
- (f) Connect the fuel pump connector.
- (g) Install rear floor service hole cover. (See page 11-16)
- (h) Install the rear seat cushion.
(See page 72-6, 72-8)



5. FUEL SYSTEM

- (a) When disconnecting the high fuel pressure line, a large amount of gasoline will spill out, so observe these procedures.
 - (1) Work for prevent gasoline from spilling out.
 - (2) Disconnect the fuel tank main tube.
 - (3) Drain the fuel remained inside the fuel tank main tube.
 - (4) Protect the disconnected fuel tank main tube from damage and foreign material by covering it with a vinyl bag.
- (5) Put a container under the connection.



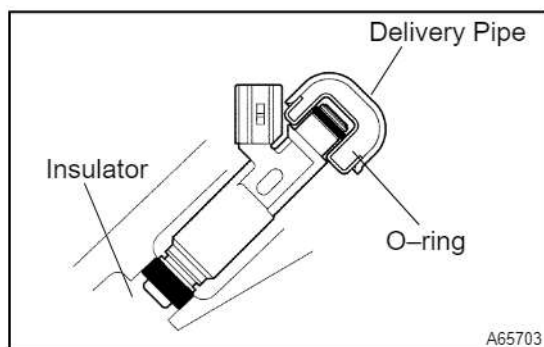


(b) Observe these precautions when removing and installing the fuel injector.

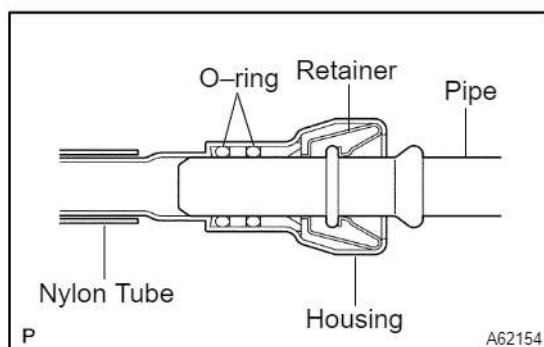
- (1) Never reuse an O-ring.
- (2) When placing a new O-ring on the fuel injector, take care not to damage it in any way.
- (3) Coat a new O-ring with spindle oil or gasoline before installing.

NOTICE:

Never use engine, gear or brake oil.



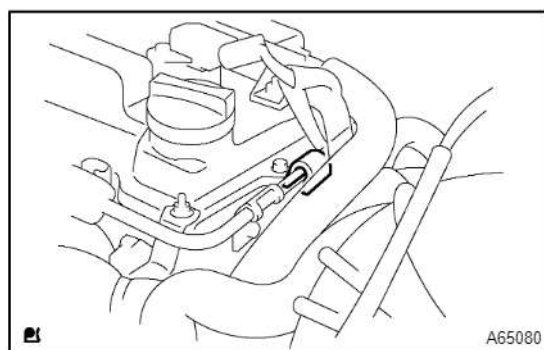
(c) Install the fuel injector to the fuel delivery pipe and cylinder head, as shown in the illustration. Before installing the fuel injector, be sure to apply spindle oil or gasoline on the place where the fuel delivery pipe touches an O-ring of the fuel injector.



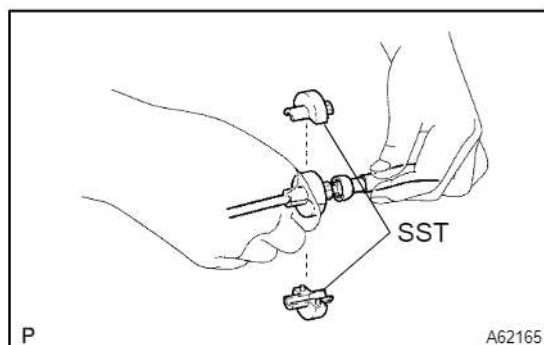
(d) Observe these precautions when disconnecting the fuel delivery pipe.

HINT:

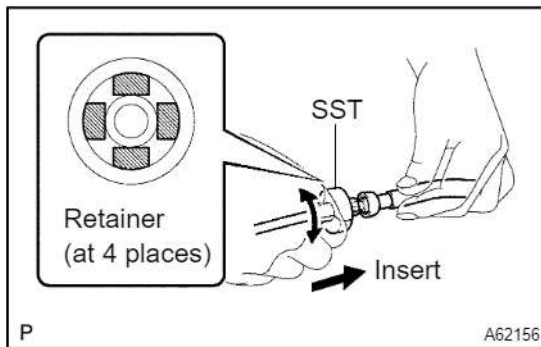
The structure of the metallic connector is shown as illustration.



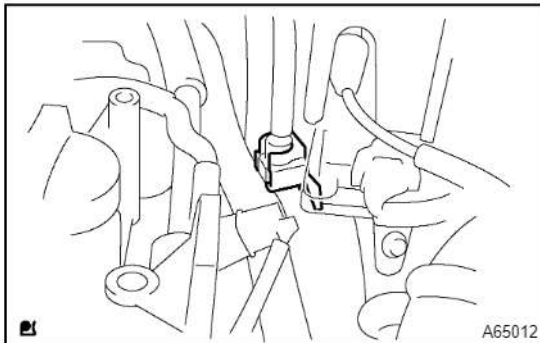
- (1) Remove the EFI fuel pipe clamp.
- (2) Get the metallic connector of the fuel tube assembly, pull it out towards the rear and hold it as it is.



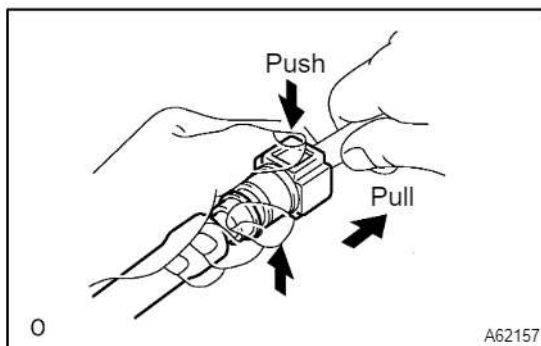
- (3) Assemble SST to the connection as shown.
SST 09268-21010



- (4) Turn SST, align the retainers inside the connector with SST chamfered parts and insert SST into the connector.
- (5) Slide SST and the connector together towards the fuel tube assembly.



- (e) Observe these precautions when disconnecting the fuel tube connector (quick type).
 - (1) Remove the EFI fuel pipe clamp.
 - (2) Check if there is any dirt like mud on the pipe and around the connector before disconnecting them and clean the dirt away.

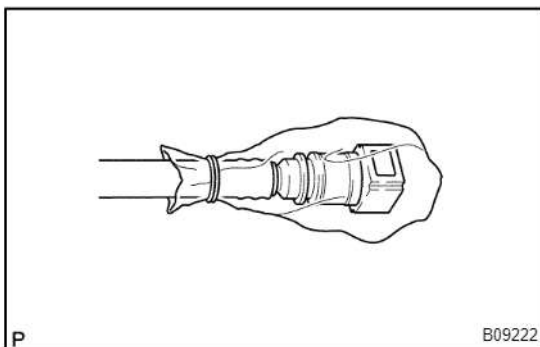


- (3) Be sure to disconnect with hands.
- (4) When the connector and the pipe are stuck, pinch the retainer between the hands, push and pull the connector to free to disconnect and pull it out.

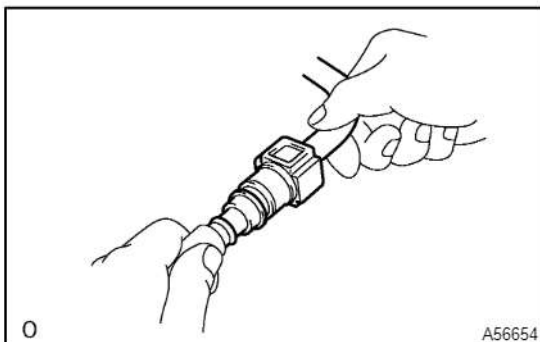
NOTICE:

Do not use any tool at this time.

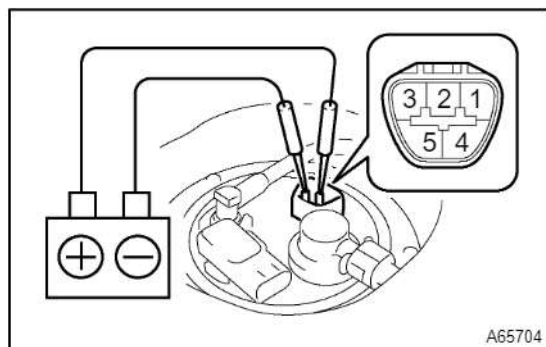
- (5) Inspect if there is any dirt or the likes on the seal surface of the disconnected pipe and clean it away.



- (6) Prevent the disconnected pipe and connector from damaging and mixing foreign objects by covering them with a vinyl bag.



- (f) Observe these precautions when connecting the fuel tube connector (quick type).
 - (1) Match the axis of the connector with axis of the pipe, and push in the connector until retainer makes a "click" sound. In case that the connections is tight, apply little amount of new engine oil on the tip of the pipe.
 - (2) After having finished the connection, check if the pipe and the connector are securely connected by pulling them.

**6. CHECK FUEL LEAK**

- (a) Check that there are no fuel leaks after doing maintenance anywhere on the fuel system.
- (1) Connect the hand-held tester to the DLC3.
 - (2) Turn the ignition switch ON and hand-held tester main switch ON.
 - (3) Select the active test mode on the hand-held tester.
 - (4) Please refer to the hand-held tester operator's manual for further details.
 - (5) If you have no hand-held tester, connect the positive (+) and negative (-) leads from the battery to the fuel pump connector.
 - (6) Check that there are no leaks from any part of the fuel system.
 - (7) Turn the ignition switch to LOCK.
 - (8) Disconnect the hand-held tester from the DLC3.