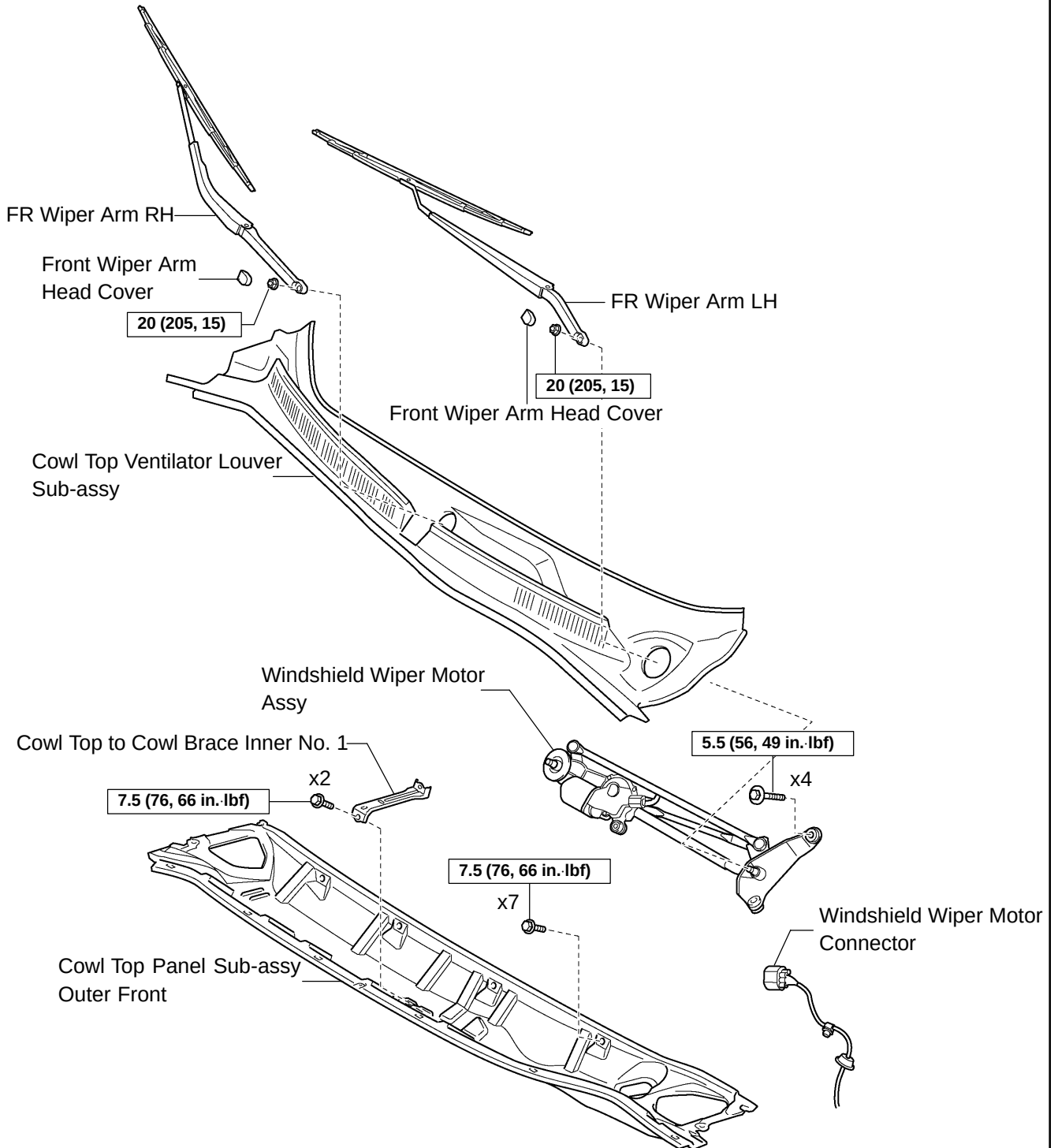


FUEL INJECTOR ASSY COMPONENTS

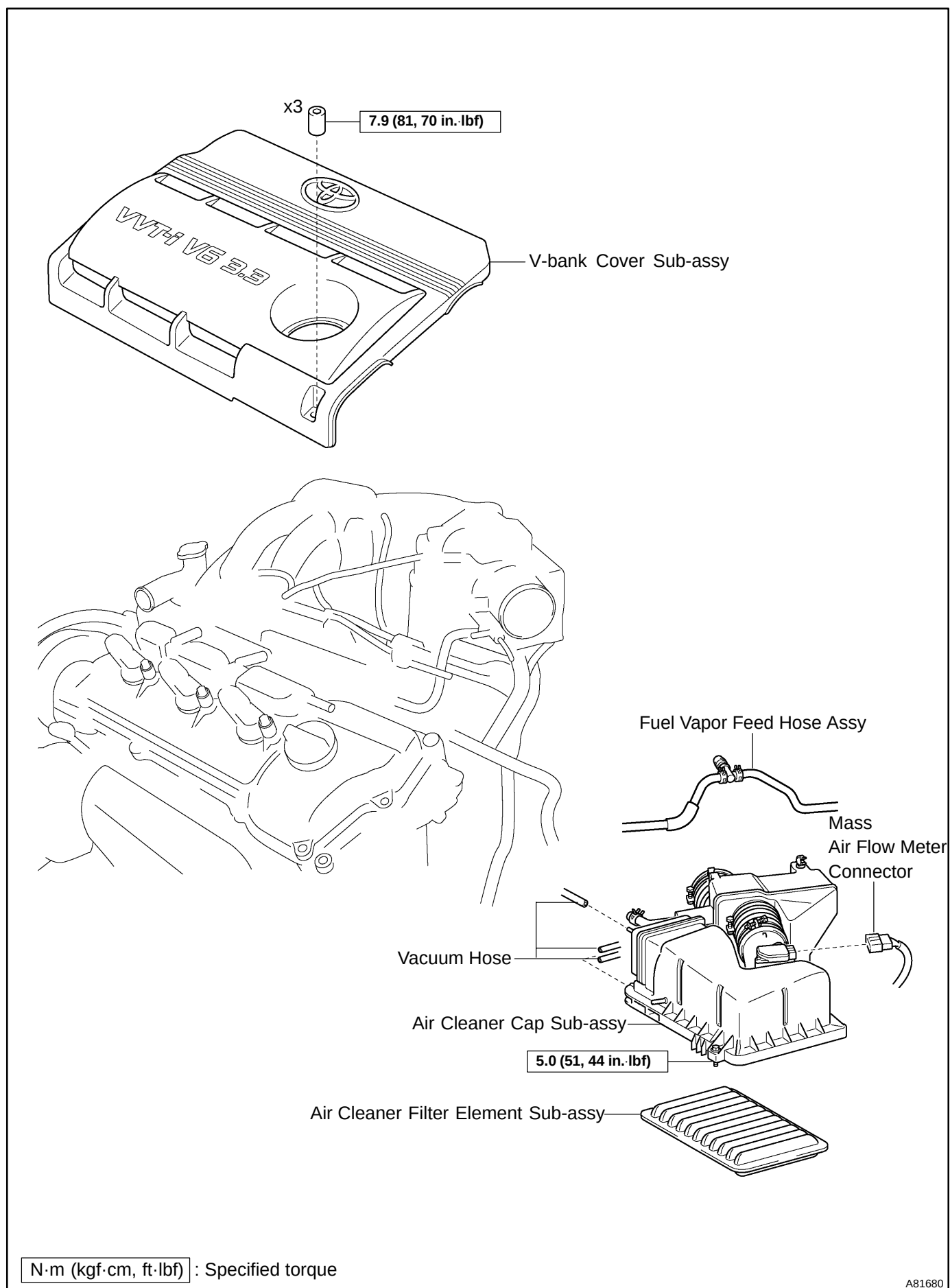
110SZ-01



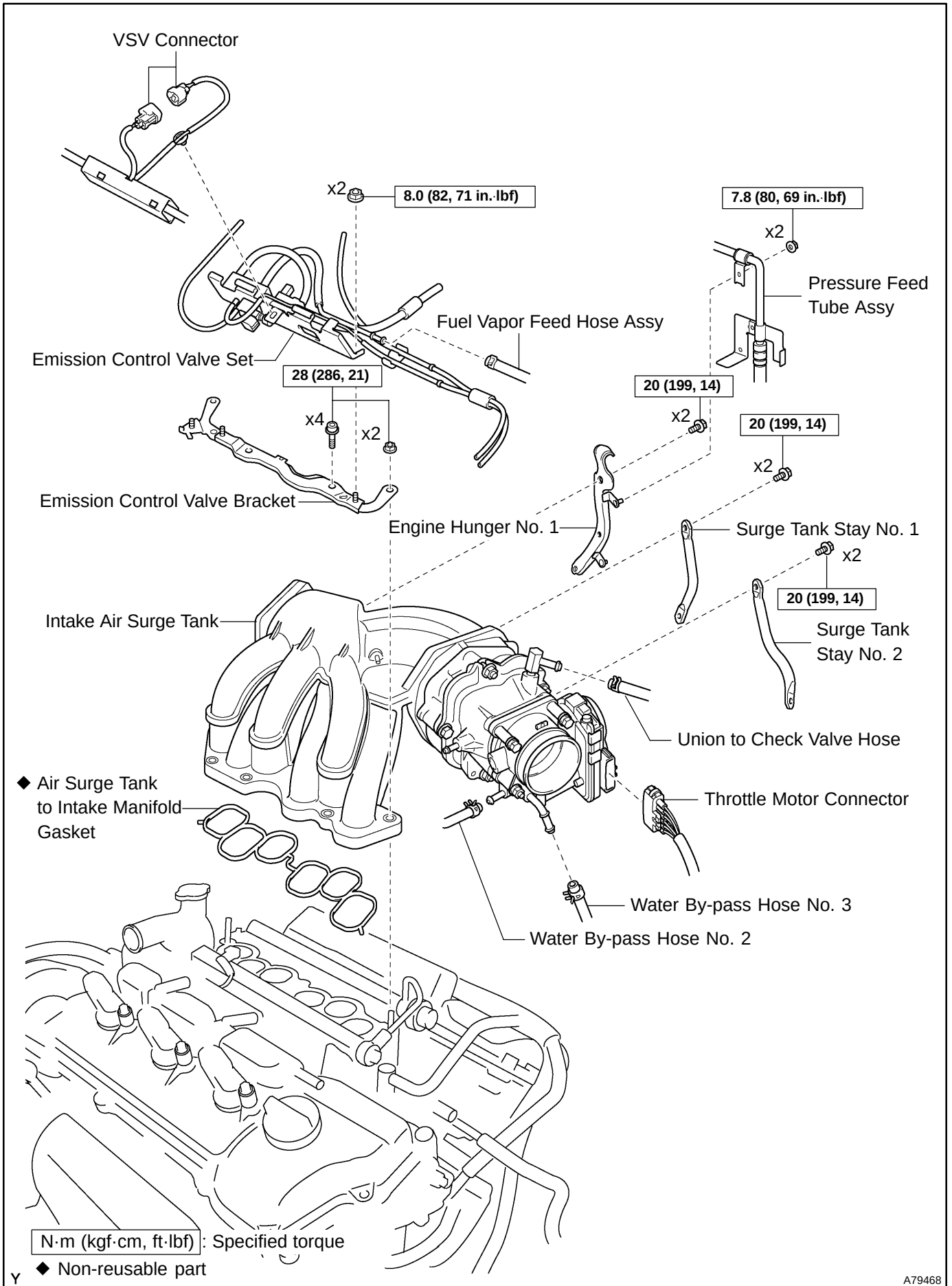
N·m (kgf·cm, ft·lbf) : Specified torque

Y

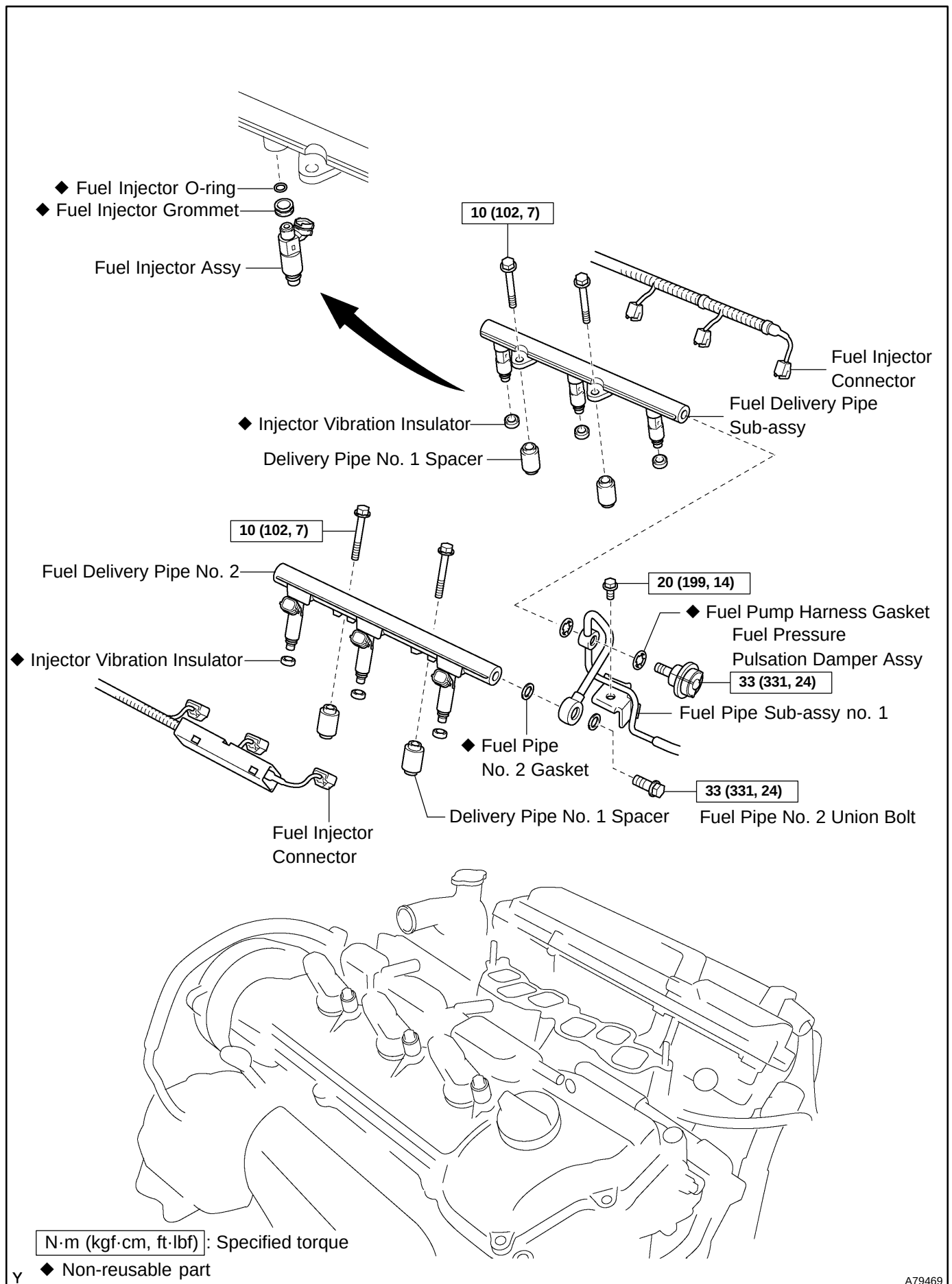
A79467



A81680

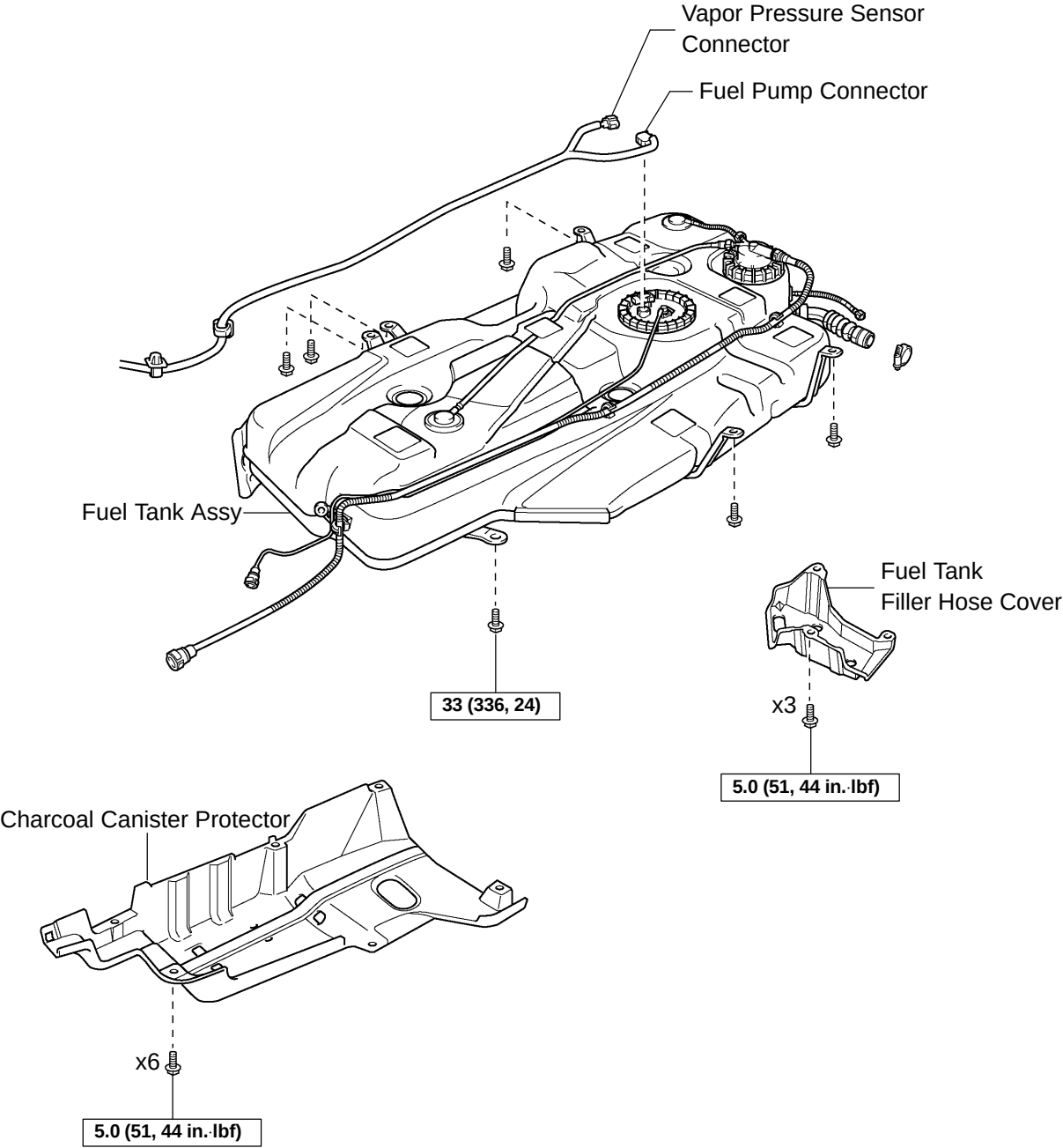


A79468



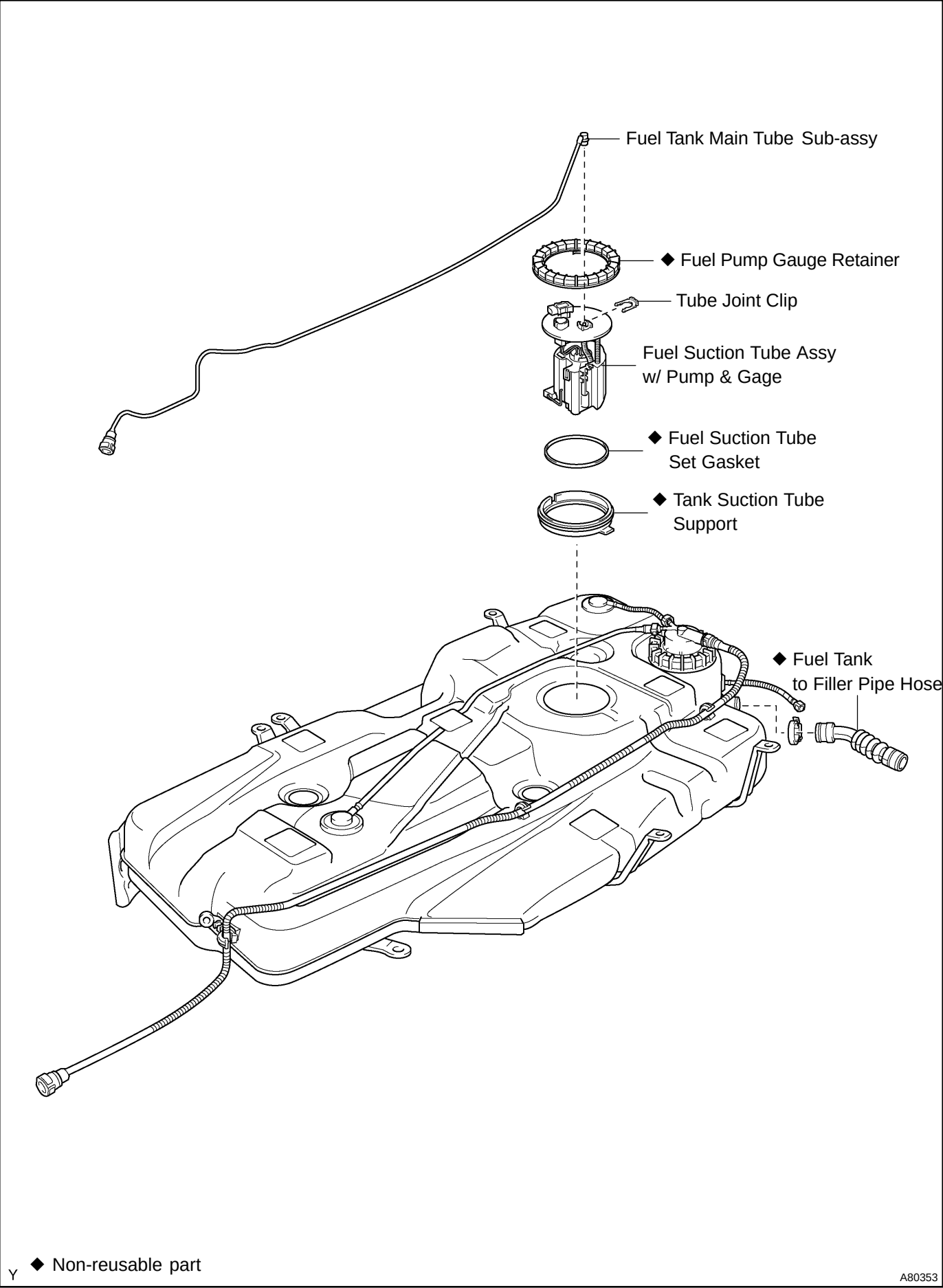
FUEL SUCTION TUBE ASSY W/ PUMP & GAGE COMPONENTS

110T1-01

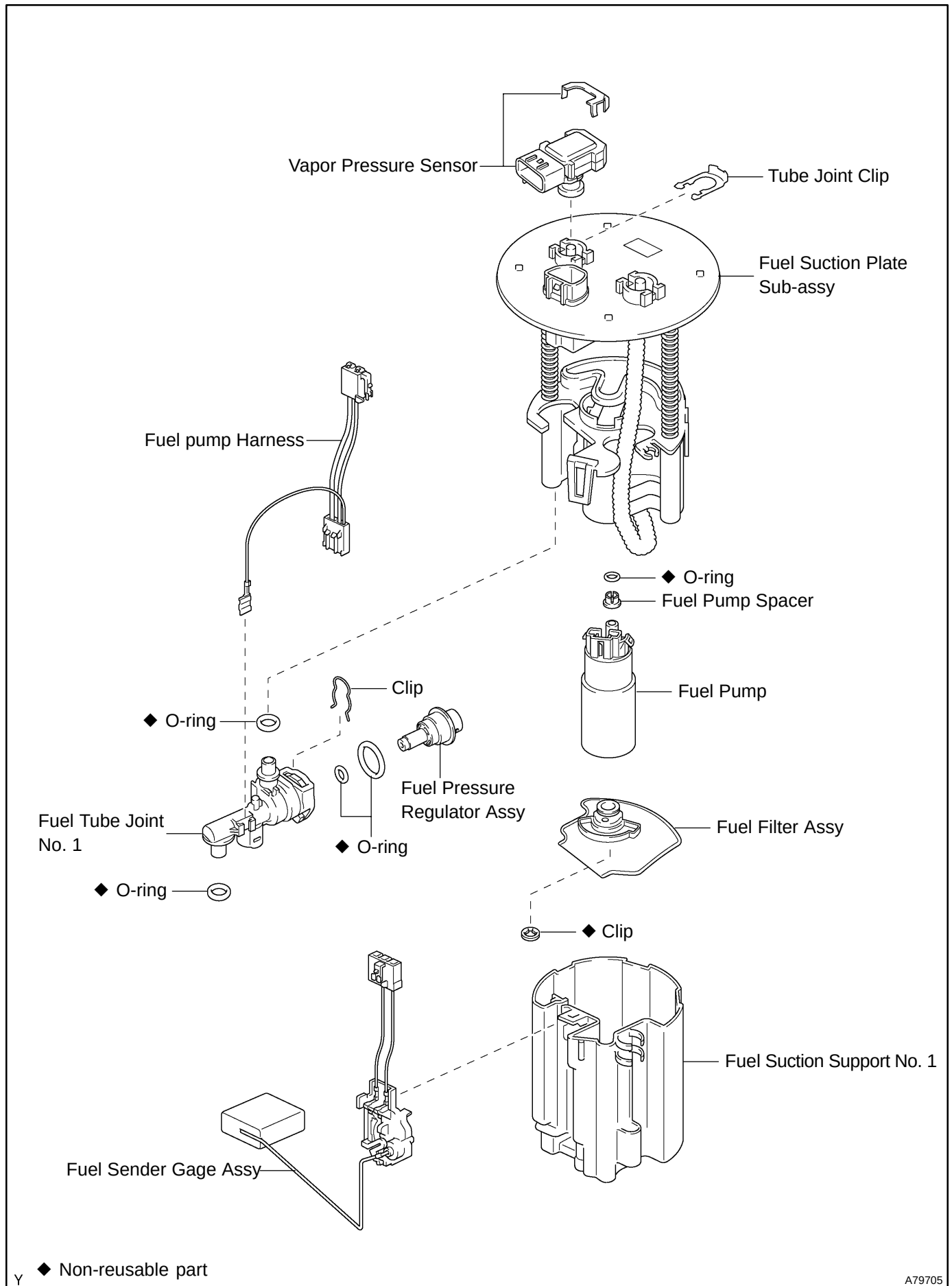


Y N·m (kgf·cm, ft·lbf) : Specified torque

A79513



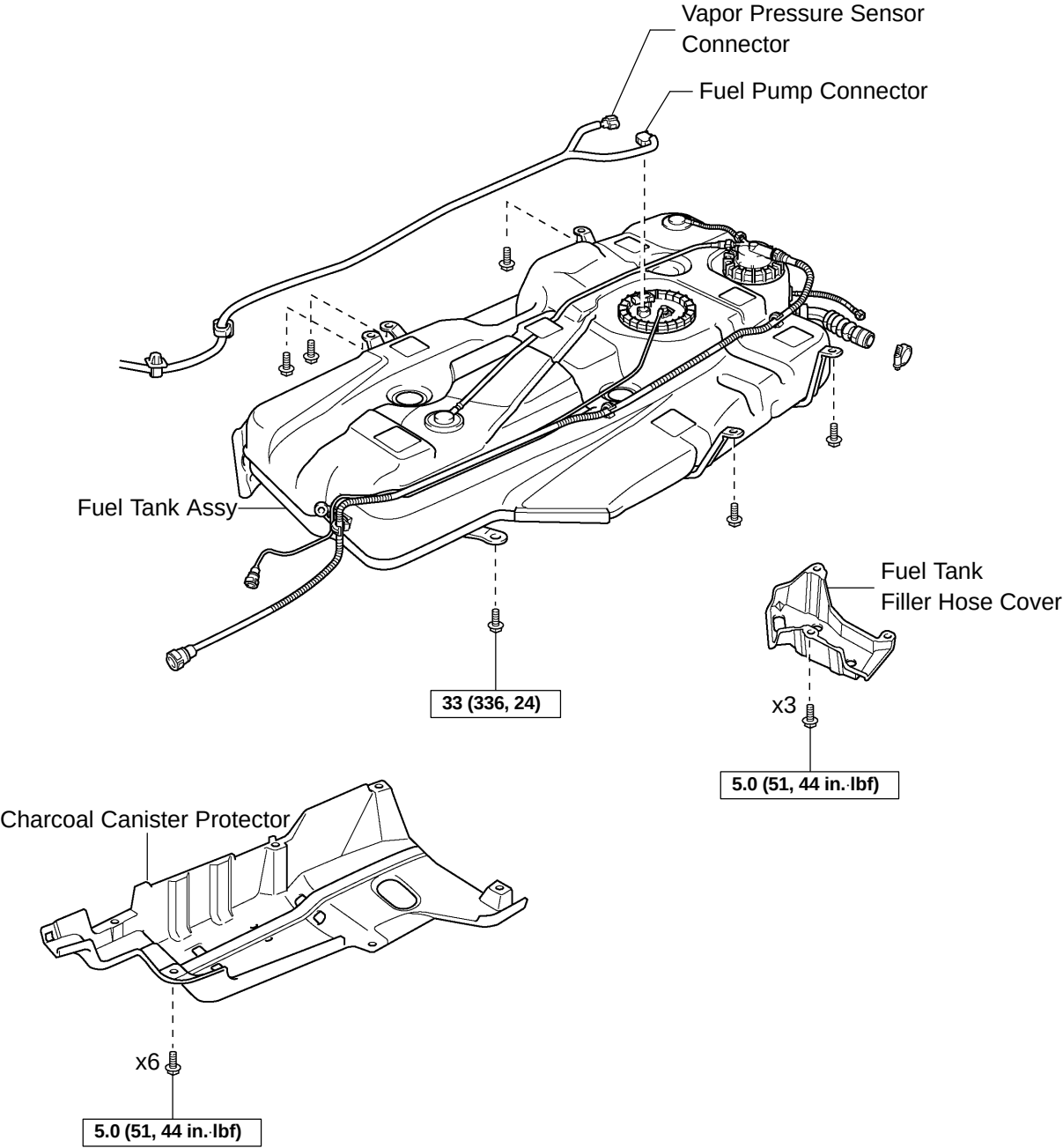
A80353



A79705

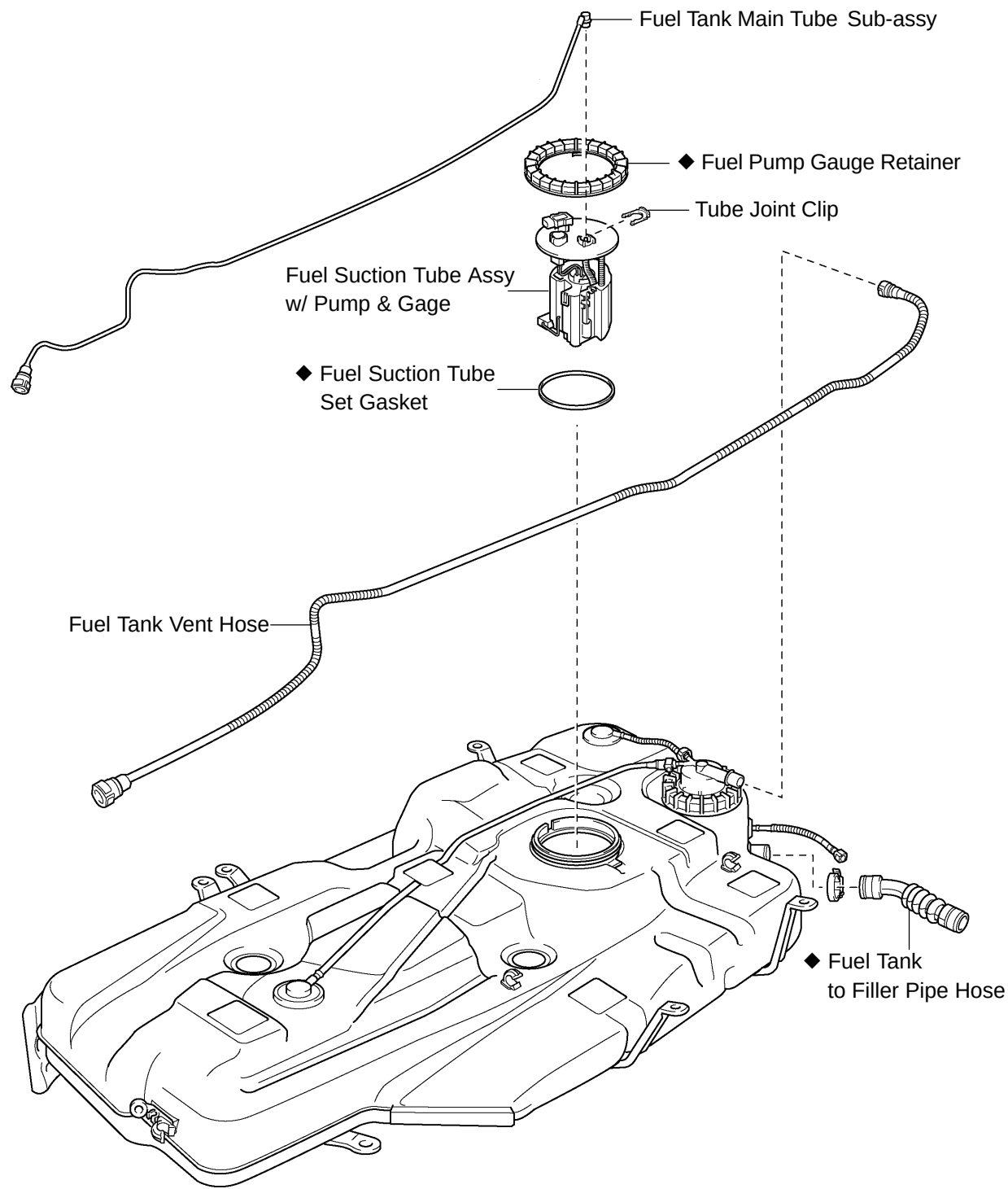
FUEL TANK ASSY COMPONENTS

110T3-01



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

A79513



Y ◆ Non-reusable part

A79514

INSPECTION

1. INSPECT FUEL INJECTOR ASSY

(a) Inspect injector resistance

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

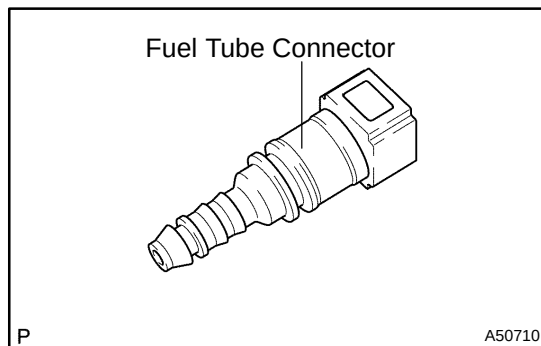
Resistance: 13.4 to 14.2 Ω at 20°C (68°F)

If the resistance is not as specified, replace the injector.

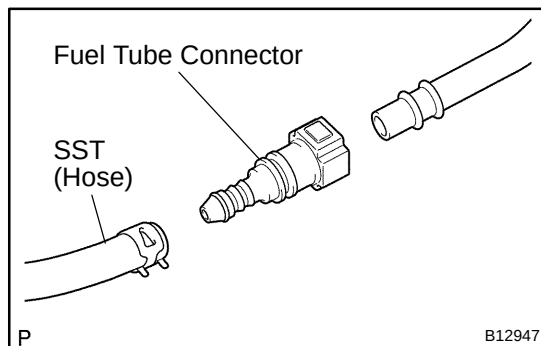
(b) Inspect injector operation.

CAUTION:

This test involves high-pressure fuel and electricity. Take every precaution regarding safe handling of both the fuel and the electricity. Perform this test in a safe area, and avoid any sparks or flame. Do not smoke.



- (1) Obtain new No. 1 fuel pipe (part No. 23801-20171) and remove the fuel tube connector from the pipe.

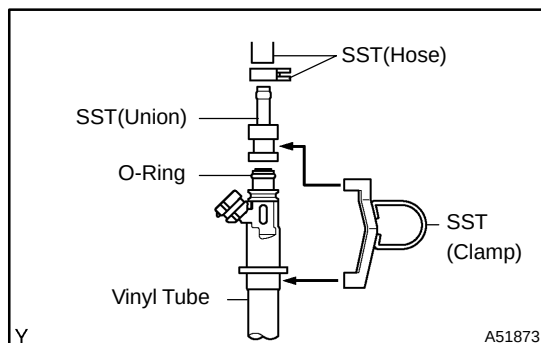


- (2) Install the fuel tube connector to SST (hose), then connect the tube connector and the fuel pipe.

SST 09268-41047 (95336-08070)

CAUTION:

Connect the fuel tube connector (quick type) after observing the precautions.



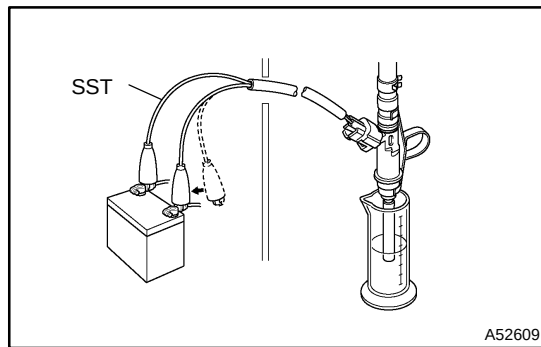
- (3) Install the grommet and O-ring to the injector.
 - (4) Connect SST (union and hose) to the injector, and hold the injector and the union with SST (clamp).
- SST 09268-41047 (09268-41110, 09268-41300, 95336-08070)

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

CAUTION:

Install a suitable vinyl tube onto the injector to contain gasoline spray.

- (6) Operate the fuel pump. (See Page [11-4](#))



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

SST 09842-30070

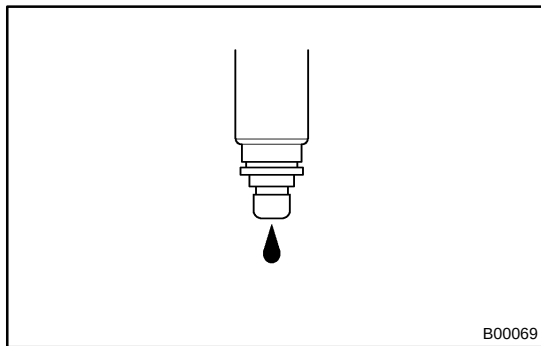
Injection volume:

Injection volume	Difference between each injector
60 to 73 cm ³ (3.7 to 4.5 cu in.) in 15 seconds	13 cm ³ (0.8 cu in.) or less

NOTICE:

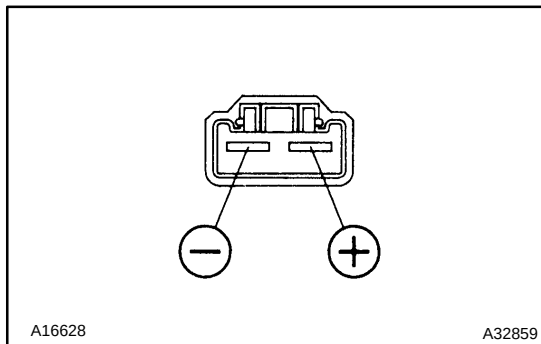
Always do the switching at the battery side.

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



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

Fuel drop: 1 drop or less in 12 minutes



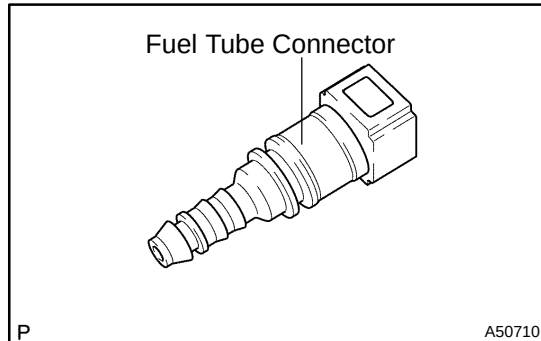
2. INSPECT FUEL PUMP

- (a) Inspect fuel pump resistance.
- (1) Using an ohmmeter, measure the resistance between the terminals.
- Resistance: 0.2 to 3.0 Ω at 20°C (68°F)**
- (b) Inspect fuel pump operation
- (1) Apply battery voltage to both the terminals. Check that the pump operates.

NOTICE:

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

ON-VEHICLE INSPECTION

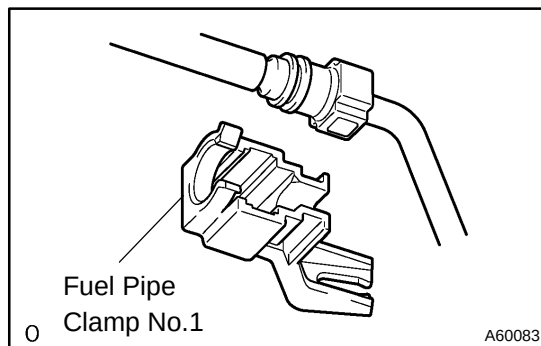


1. CHECK FUEL PRESSURE

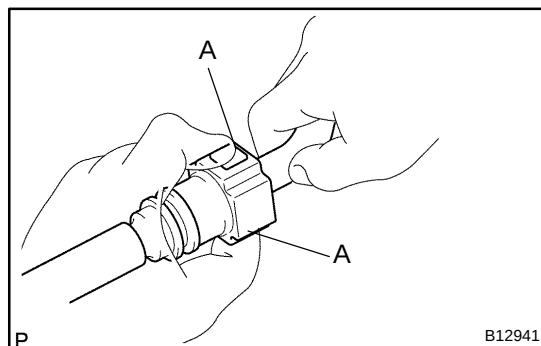
- (a) Discharge fuel system pressure.
(See page [11-1](#))
- (b) Check that the battery voltage is above 12 V.
- (c) Disconnect the negative (-) battery cable.
- (d) Pull out the connector from a new fuel tube.

HINT:

Part No. 23801-20171



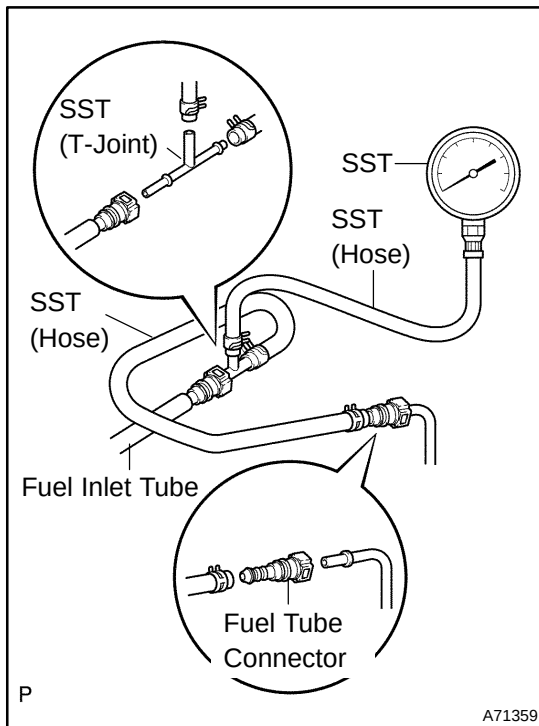
- (e) Disconnect the fuel tube clamp from the fuel tube connector.



- (f) Disconnect the fuel tube connector from the fuel pipe while pinching part A with fingers as shown in the illustration.

CAUTION:

- After taking the precautions, disconnect the fuel tube connector (quick type).
- As there is retained pressure in the fuel line, prevent it from splashing inside the vehicle compartment.



- (g) Install SST (pressure gauge) using SST and a fuel tube connector as shown in the illustration.
 SST 09268-41047(95366-08070), 09268-45014
 (09268-41250, 09268-41200, 09268-41220)

- (h) Wipe up any gasoline.
 (i) Reconnect the negative (-) battery cable.
 (j) Connect the hand-held tester to the DLC3.
 (k) Measure the fuel pressure.

Fuel pressure:

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

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

- (l) Disconnect the hand-held tester from the DLC3.
 (m) Start the engine.
 (n) Measure the fuel pressure at idle.

Fuel pressure:

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

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

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

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

- (q) After checking the fuel pressure, disconnect the negative (-) battery cable and carefully remove SST and the fuel tube connector to prevent gasoline from splashing.
 (r) Reconnect the fuel inlet tube (fuel tube connector).

CAUTION:

After taking the precautions, connect the fuel tube connector (quick type).

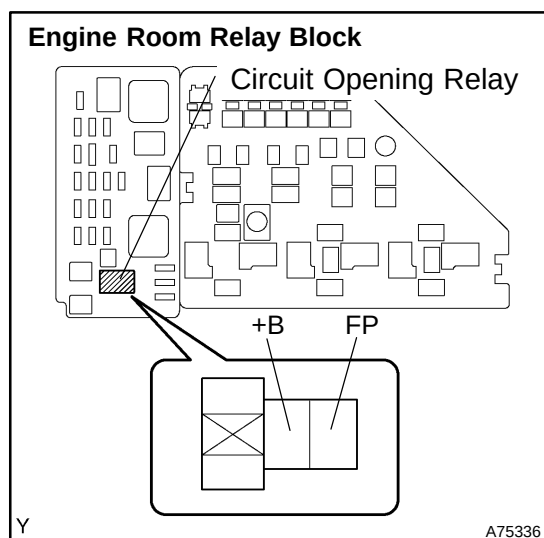
2. CHECK FUEL PUMP OPERATION AND FUEL LEAK

- (a) When using hand-held tester.
 (1) Connect the hand-held tester to the DLC3.
 (2) Turn the ignition switch ON and hand-held tester main switch ON.

NOTICE:

Do not start the engine.

- (3) Select the ACTIVE TEST mode on the hand-held tester. If you need a help to select the ACTIVE TEST mode, refer to the hand-held tester user's manual.



- (b) When not using hand-held tester.
- (1) Remove the circuit opening relay.
 - (2) Using a service wire, connect terminals FP and +B of the relay block.

NOTICE:

Pay due attention to the terminal connecting position to avoid a malfunction.

- (3) Turn the ignition switch ON and check that the fuel pump operates.

NOTICE:

Do not start the engine.

- (c) Check that there are no fuel leaks after doing maintenance anywhere on the fuel system.

FUEL SYSTEM

PRECAUTION

110SW-01

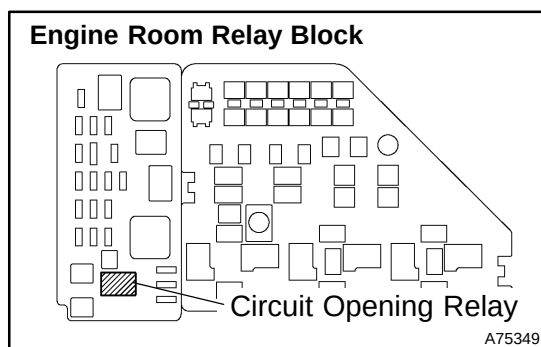
1. PRECAUTION

- (a) Before working on fuel system, disconnect negative (-) battery cable.
- (b) Do not smoke or work near fire when handling the fuel system.
- (c) Keep gasoline away from rubber or leather parts.
- (d) Replace the fuel tank with a new one if the vehicle has been damaged, resulting in airbag deployment.

2. DISCHARGE FUEL SYSTEM PRESSURE

CAUTION:

- Do not disconnect any part of the fuel system until you have discharged the fuel system pressure.
- Even after discharging the fuel pressure, place a shop rag over fittings as you separate them to reduce risk of fuel spray on yourself or in the engine compartment.



- (a) Remove the circuit opening relay from the engine room relay block.
- (b) Start the engine. After the engine stopped, turn the ignition switch OFF.

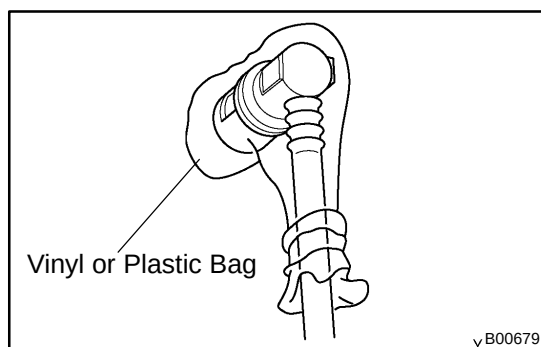
HINT:

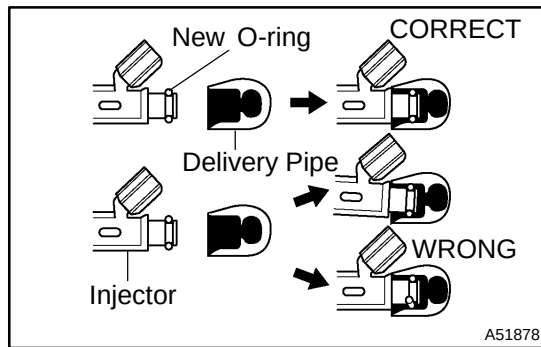
It is possible that DTC P0171 (system too lean) will be set.

- (c) Check that the engine does not start.
- (d) Remove the fuel tank cap, and let the air out of the fuel tank.
- (e) Disconnect the negative (-) battery cable.
- (f) Reinstall the circuit opening relay.

3. FUEL SYSTEM

- (a) When disconnecting the high fuel pressure line, a large amount of gasoline will spill out, so observe these procedures.
 - (1) Discharge fuel system pressure. (See step 2)
 - (2) Disconnect the fuel pump tube.
(See page [11-21](#))
 - (3) Drain the fuel that remained inside the fuel pump tube.
 - (4) Cover the disconnected fuel pump tubes with a vinyl or a plastic bag to prevent damage and dirt.
 - (5) Place a tray under the vehicle or point of disconnection to catch any fuel that may spill.

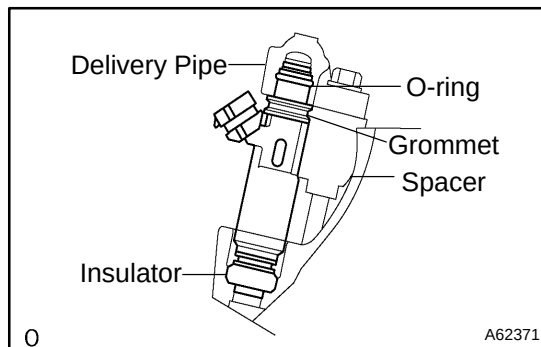




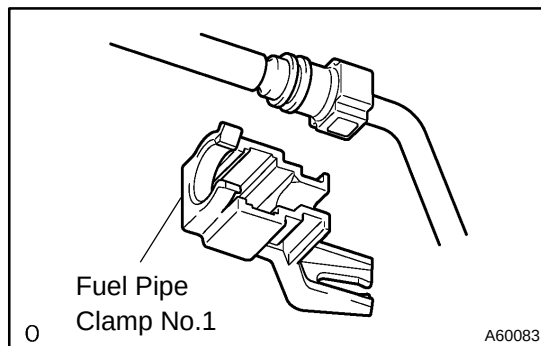
- (b) Observe the following precautions when removing and installing fuel injectors.

NOTICE:**Never reuse the O-ring.**

- (1) When installing a new O-ring to the injector, be careful not to damage the injector.
- (2) Coat the new O-ring with grease or gasoline before installing. Never use engine oil, gear oil or brake oil.

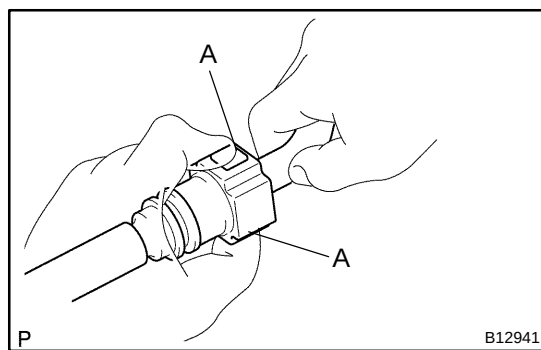


- (c) Install the injector to the delivery pipe and the cylinder head as shown in the illustration. Before installing the injector, be sure to apply grease or gasoline on the place where the delivery pipe contacts the O-ring of the injector.

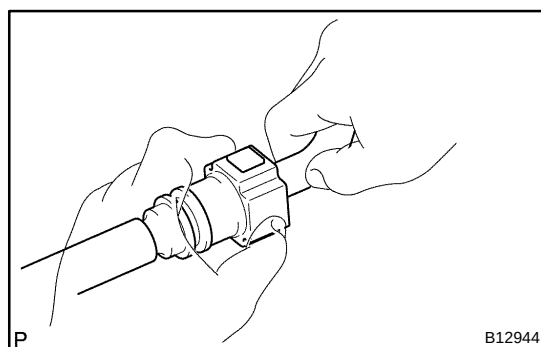


- (d) Observe these precautions when disconnecting the fuel tube connector.

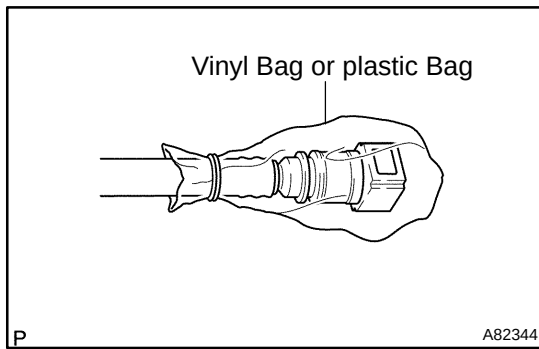
- (1) Disconnect the fuel pipe clamp from the connector.
- (2) Check that there is no dirt or mud on the pipe and around the connector before disconnecting them. Clean them if necessary.



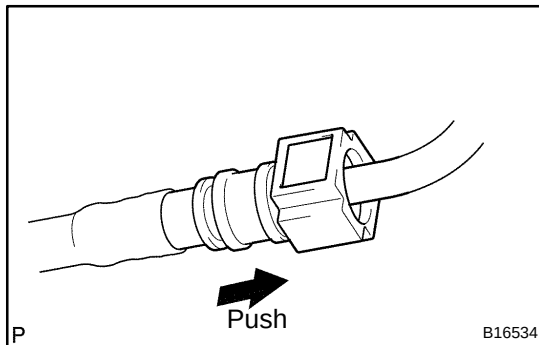
- (3) Disconnect the connector from the hose while pinching part A with fingers as shown in the illustration.



- (4) When the connector and the pipe are stuck, push and pull the connector to release and pull the connector out from the pipe carefully.
- (5) Inspect that there is no dirt or mud on the sealing surface of the disconnected pipe. Clean it away if necessary.

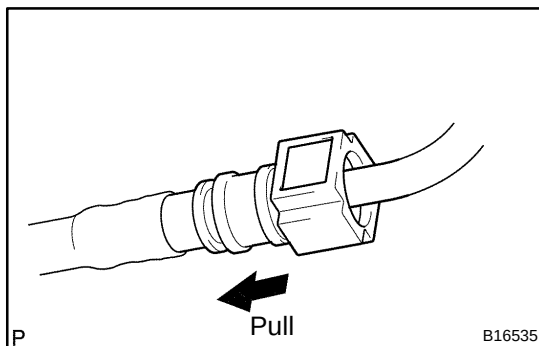


- (6) To prevent the disconnected pipe and connector from being damaged and foreign objects from being introduced, cover them with a vinyl or plastic bag.



- (e) Observe these precautions when connecting the fuel tube connectors (Quick Type):

- (1) Check that there is no damage or foreign objects in the connected part of the pipe.
- (2) Match the axis of the connector with the axis of the pipe, and push into the connector until the connector makes a "click" sound. If the connection is tight, apply little amount of fresh engine oil on the tip of the pipe.
- (3) After having finished connection, check if the pipe and the connector are securely connected by pulling on them.
- (4) Check for fuel leaks.

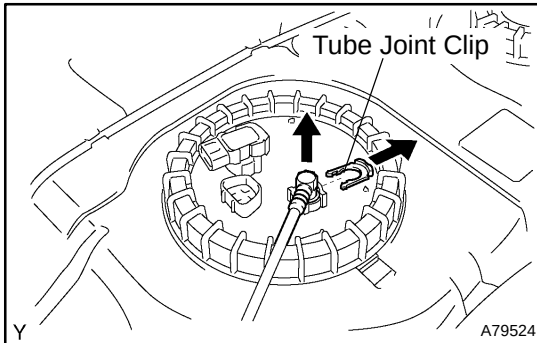


4. CHECK FOR FUEL LEAKS

- (a) Check that there are no fuel leaks after doing maintenance anywhere on the fuel system.
(See page [11-4](#))

Removal & Installation and Disassembly & Reassembly

1. DISCHARGE FUEL SYSTEM PRESSURE (See page 11-1)
2. REMOVE CHARCOAL CANISTER PROTECTOR (See page 12-1 1)
3. REMOVE FUEL TANK FILLER HOSE COVER (See page 11-30)
4. REMOVE FUEL TANK ASSY (See page 11-30)
5. REMOVE FUEL TANK TO FILLER PIPE HOSE (See page 11-30)

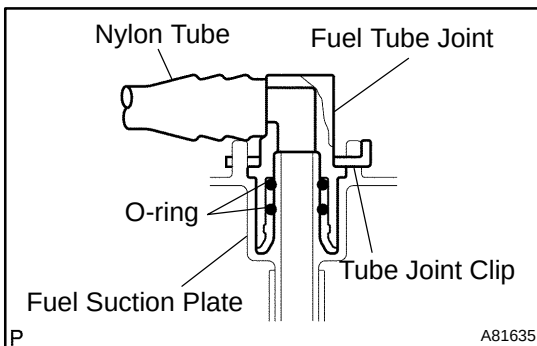


6. REMOVE FUEL TANK MAIN TUBE SUB-ASSY

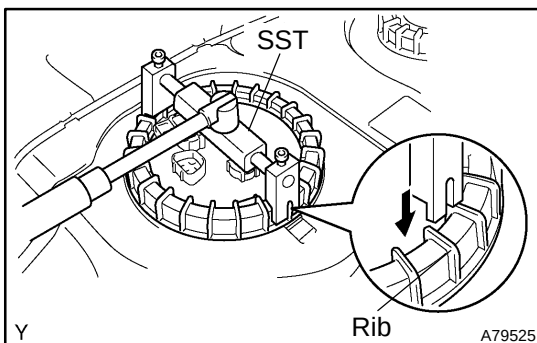
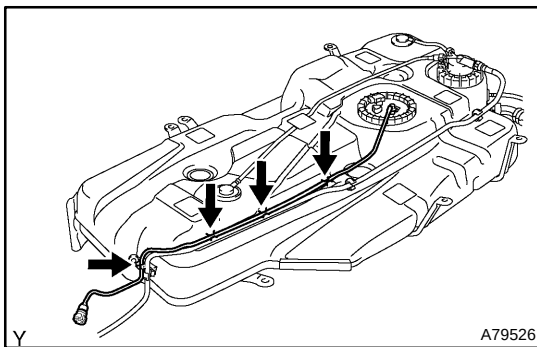
- (a) Remove the tube joint clip, and pull out the fuel main tube.

NOTICE:

- Check if there is any dirt or mud around the connector before this operation and remove the dirt as necessary.
- Be careful of mud because the quick connector has an O-ring which seals the pipe and connector that can be contaminated.
- Do not use any tool in this operation.
- Do not bend or twist the nylon tube. Protect the connector by covering it with a vinyl or plastic bag.
- When the pipe and connector are stuck, push and pull the connector to release and pull the connector out carefully.



- (b) Unfasten the 4 claws and remove the fuel tank main tube from the fuel tank.



7. REMOVE FUEL SUCTION TUBE ASSY W/ PUMP & GAGE

- (a) Using SST, loosen the fuel pump gauge retainer.
SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

HINT:

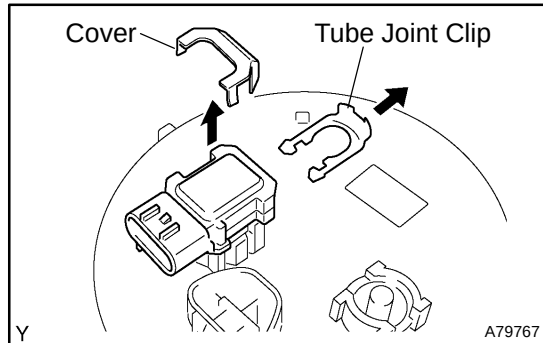
A rib on the fuel pump gauge retainer can be fitted into a tip of the SST.

- (b) Remove the fuel pump gauge retainer.

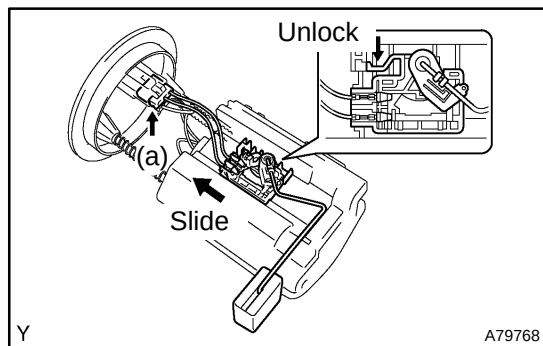
- (c) Remove the fuel suction tube w/ pump & gage and the gasket from the fuel tank.

NOTICE:

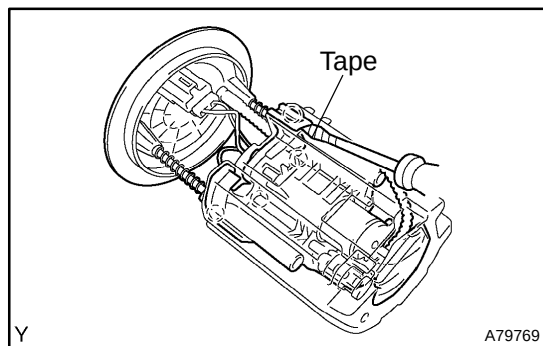
Be careful not bend the arm of the fuel sender gage.

**8. REMOVE VAPOR PRESSURE SENSOR ASSY**

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

**9. REMOVE FUEL SENDER GAGE ASSY**

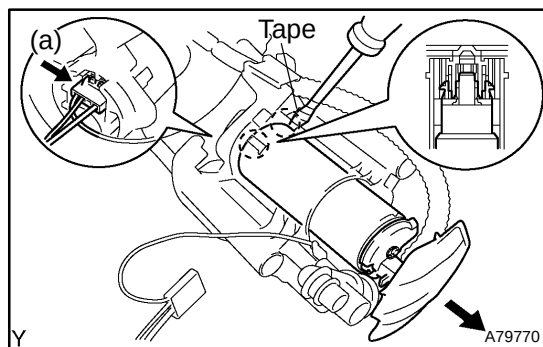
- (a) Disconnect the fuel sender gage connector.
(b) Unlock the fuel sender gage and slide it to remove.

**10. REMOVE FUEL SUCTION PLATE SUB-ASSY**

- (a) Using a screwdriver with the tip wrapped in tape, disconnect the 4 snap-claws from the claw holes and remove the fuel suction plate.

NOTICE:

Do not damage the fuel suction plate and the fuel suction support No. 1.

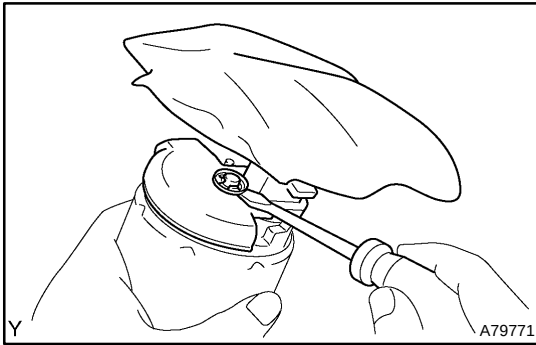
**11. REMOVE FUEL PUMP**

- (a) Disconnect the fuel pump connector.
(b) Using a small screwdriver with the tip wrapped in tape, disconnect the 2 claws from the claw holes and pull out the fuel pump.

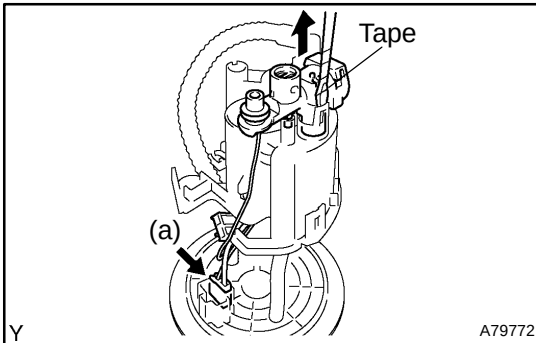
NOTICE:

Do not damage the fuel pump and the fuel suction plate.

- (c) Remove the O-ring and the fuel pump spacer from the fuel pump.

**12. REMOVE FUEL FILTER ASSY**

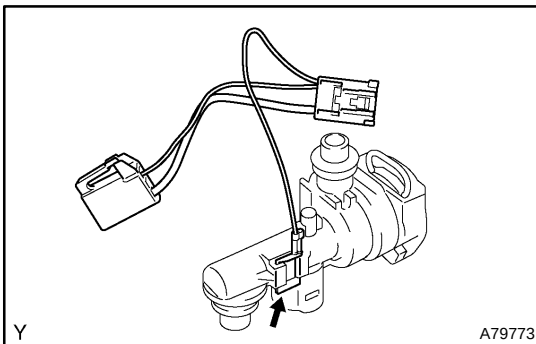
- (a) Using a small screwdriver, pry out the clip.
- (b) Remove the fuel filter from the fuel pump.

**13. REMOVE FUEL TUBE JOINT NO.1**

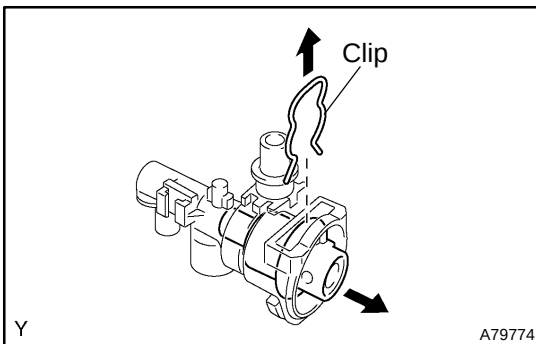
- (a) Remove the connector.
- (b) Using a screwdriver with the tip wrapped in tape, disconnect the snap-claw from the claw hole and pull out the fuel tube joint No. 1.

NOTICE:

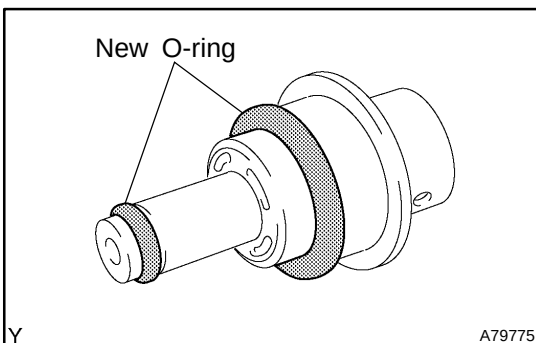
Do not damage the fuel tube joint No. 1 and the fuel suction plate.

**14. REMOVE FUEL PUMP HARNESS**

- (a) Remove the fuel pump harness from the fuel tube joint No. 1.

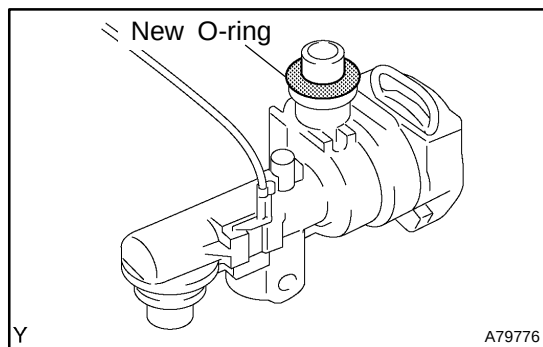
**15. REMOVE FUEL PRESSURE REGULATOR ASSY**

- (a) Remove the clip.
- (b) Pull out the fuel pressure regulator from the fuel suction plate.
- (c) Remove the 2 O-rings from the fuel pressure regulator.

**16. INSTALL FUEL PRESSURE REGULATOR ASSY**

- (a) Apply a light coat of gasoline or spindle oil to the 2 new O-rings, and install it to the fuel pressure regulator.
- (b) Apply a light coat of gasoline or spindle oil to the 2 O-rings again, and install the fuel pressure regulator to the fuel tube joint No. 1.
- (c) Install the clip.

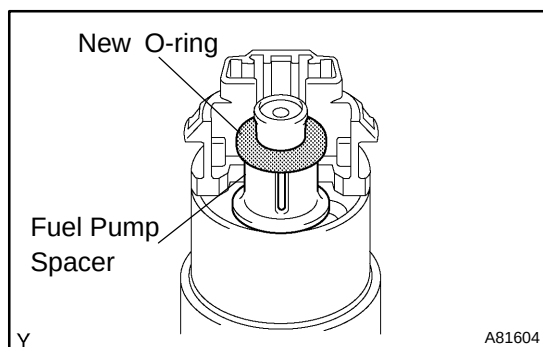
17. INSTALL FUEL PUMP HARNESS

**18. INSTALL FUEL TUBE JOINT NO.1**

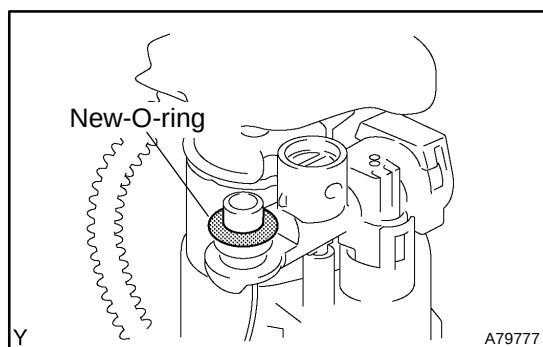
- (a) Apply a light coat of gasoline or spindle oil to a new O-ring, and install it to the fuel tube joint No. 1.
- (b) Apply a light coat of gasoline or spindle oil to the O-ring again, and install the fuel tube joint No. 1 to the fuel suction plate.
- (c) Connect the connector.

19. INSTALL FUEL FILTER ASSY

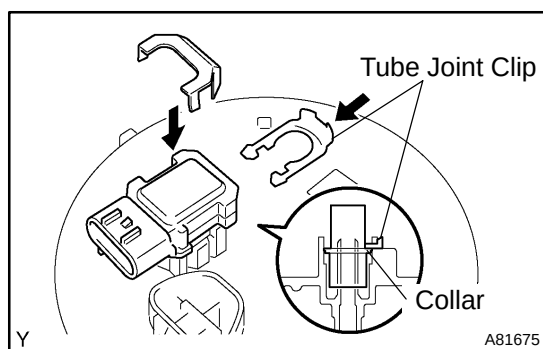
- (a) Install the fuel filter with a new clip.

**20. INSTALL FUEL PUMP**

- (a) Install the fuel pump spacer to the fuel pump.
- (b) Apply a light coat of gasoline or spindle oil to a new O-ring, and install it to the fuel pump.
- (c) Apply a light coat of gasoline or spindle oil to the O-ring again, and install the fuel pump to the fuel suction plate.
- (d) Connect the fuel pump connector.

**21. INSTALL FUEL SUCTION PLATE SUB-ASSY**

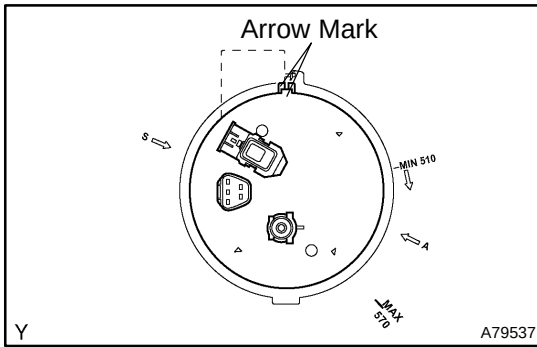
- (a) Apply a light coat of gasoline or spindle oil to a new O-ring, and install it to the fuel tube joint No. 1.
- (b) Apply a light coat of gasoline or spindle oil to the O-ring again, and install the fuel suction plate to the fuel suction support No. 1.

22. INSTALL FUEL SENDER GAGE ASSY**23. 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 connector is fully inserted.
- Check that the fuel tube joint clip is on the collar of the fuel tube joint.
- After installing the tube joint clip, check if the fuel tube joint connector is securely connected by pulling it.



24. INSTALL FUEL SUCTION TUBE ASSY W/ PUMP & GAGE

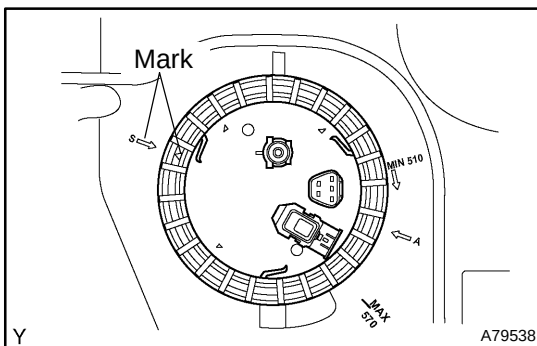
NOTICE:

Prior to assembly, all the new components must be stabilized at room temperature for minimum 12 hours.

- Ensure gasket groove is clean and free of foreign particles.
- Install a new gasket to the fuel tank.
- Make sure that the gasket sits in the groove.
- Align the arrow mark of the fuel suction tube w/ pump & gage tube and the tank suction support.

NOTICE:

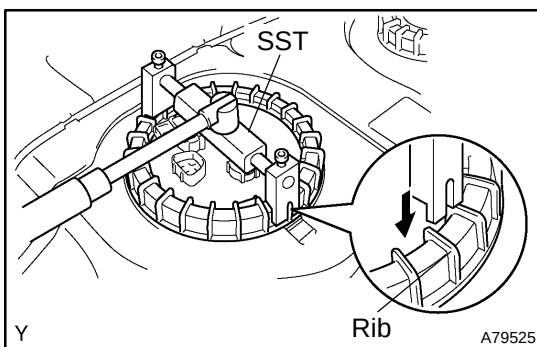
Be careful not bend the arm of the fuel sender gage.



- Align marks on a new fuel pump gauge retainer and the fuel tank.
- Position the fuel pump gauge retainer on top of the fuel suction w/ pump & gage flange while pushing down the flange on center.
- While holding the fuel suction tube w/ pump & gage, tighten the pump gauge retainer one complete turn by hand.

NOTICE:

- Make sure the fuel suction tube w/ pump & gage anti-rotation tab is in the groove during above operation.
- "S" arrow on the fuel tank indicates 0 degrees position.



- Ensure that no cross threading occurred during installation by checking the gap between the fuel pump gauge retainer and the fuel tank. Confirm that the gap is even. If cross threading occurred, remove the fuel pump gauge retainer and repeat step (g).
- Using SST, tighten the fuel pump gauge retainer to the specified torque.

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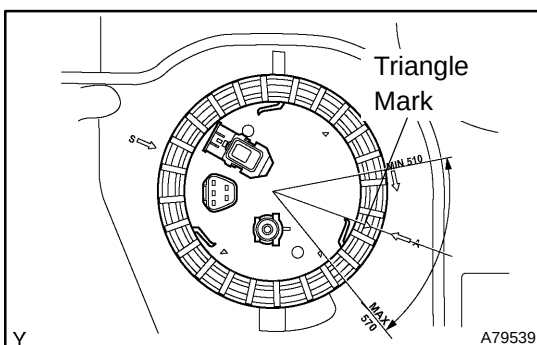
Torque: 80 to 90 N·m (816 to 918 kgf·cm, 59 to 67 ft·lbf)

NOTICE:

- No ratcheting effect allowed when tightening the fuel pump gauge retainer.
- No grease or lubrication allowed on parts during installation.

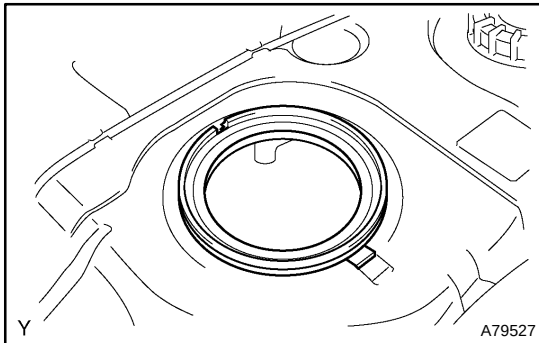
HINT:

A rib on the fuel pump gauge retainer can be fitted into a tip of the SST.

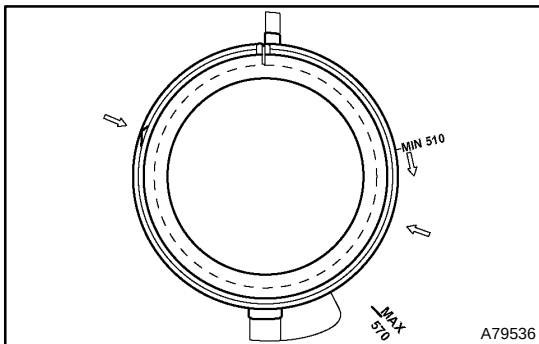


- (j) Install the fuel pump gauge retainer by one and half turn so that the triangle mark on the fuel pump gauge retainer is between 510° and 570° from the start position.
- (k) If the triangle mark is not reached 510° , confirm that no cross threading occurred by measuring the gap between the fuel pump gauge retainer and the fuel tank.

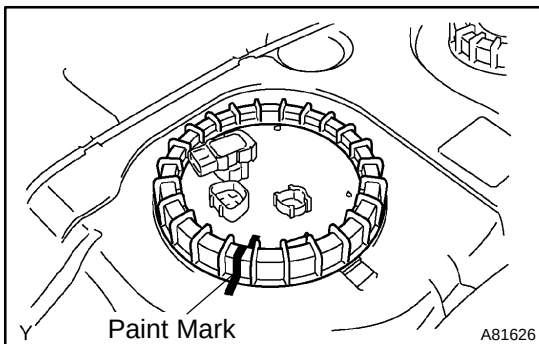
If cross threading occurred, replace the fuel pump gauge retainer, the gasket and the tank suction tube support.



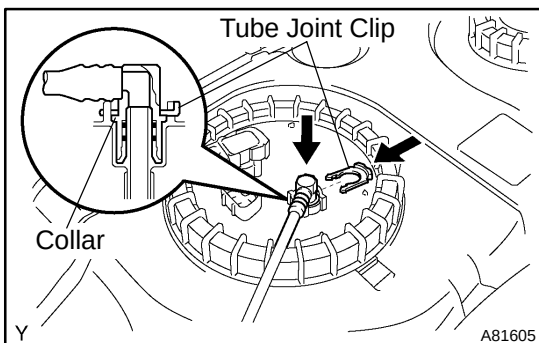
- (l) Replace the tank suction tube support.
 - (1) Remove the tank suction tube support from the fuel tank.



- (2) Install the tank suction tube support to the fuel tank as shown in the illustration.



- (m) Put a mark on the fuel pump gauge retainer and the fuel tank with paint. This will be the evidence that the fuel pump gauge retainer had been removed.



25. INSTALL FUEL TANK MAIN TUBE SUB-ASSY

- (a) Install in the fuel return tube with the tube joint clip.

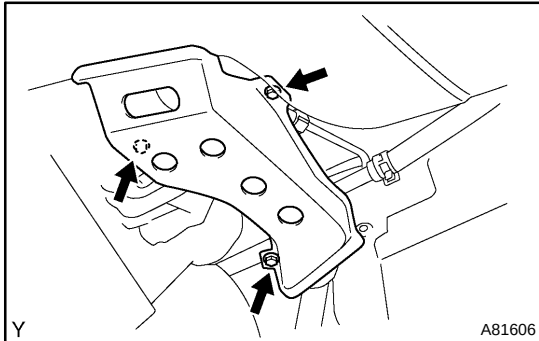
NOTICE:

- Check that there is no scratch or foreign objects on the connecting part.
- Check that the fuel tube joint is inserted 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 has not been pulled off.

26. INSTALL FUEL TANK TO FILLER PIPE HOSE (See page [11-30](#))
27. INSTALL FUEL TANK ASSY (See page [11-30](#))
28. CHECK FOR FUEL LEAKS (See page [11-4](#))
29. INSTALL FUEL TANK FILLER HOSE COVER (See page [11-30](#))
30. INSTALL CHARCOAL CANISTER PROTECTOR (See page [12-1 1](#))

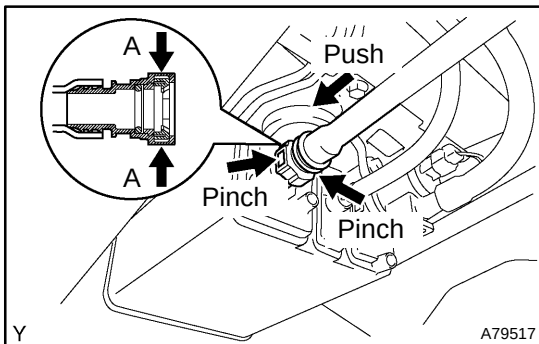
Removal & Installation and Disassembly & Reassembly

1. DISCHARGE FUEL SYSTEM PRESSURE (See page 11-1)
2. REMOVE CHARCOAL CANISTER PROTECTOR (See page 12-1 1)



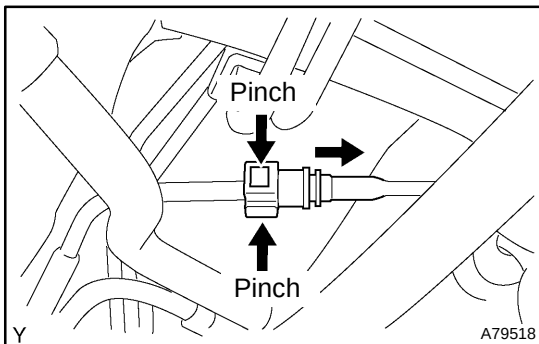
3. REMOVE FUEL TANK FILLER HOSE COVER

- (a) Remove the 3 bolts and the fuel tank filler hose cover.



4. REMOVE FUEL TANK ASSY

- (a) Disconnect the fuel tank vent hose.
 - (1) Deeply push the connector to release the locking tab.
 - (2) Pinch portion A.
 - (3) Pull out the connector.

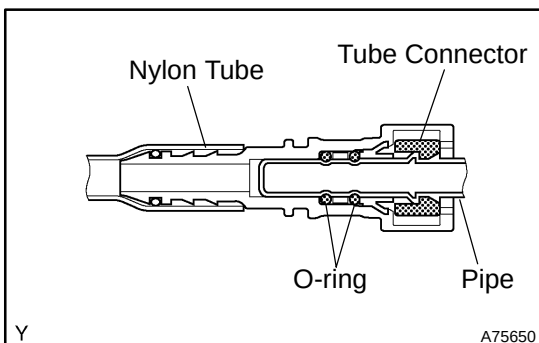


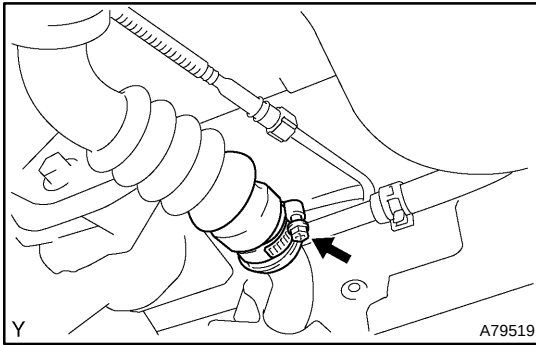
- (b) Disconnect the fuel tank main tube.

- (1) Pinch the tube connector and then pull out the fuel tank main tube.

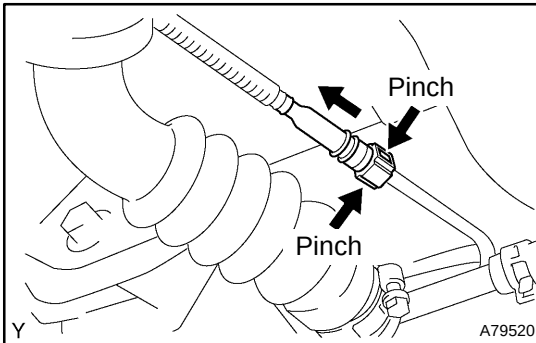
NOTICE:

- Check if there is any dirt or mud around the connector before this operation and remove the dirt as necessary.
- Be careful of mud because the quick connector has an O-ring which seals the pipe and connector that can be contaminated.
- Do not use any tool in this operation.
- Do not bend or twist the nylon tube. Protect the connector by covering it with a vinyl or plastic bag.
- When the pipe and the connector are stuck, push and pull the connector to release and pull the connector out carefully.





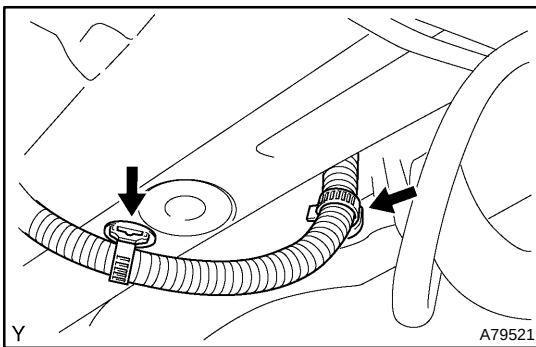
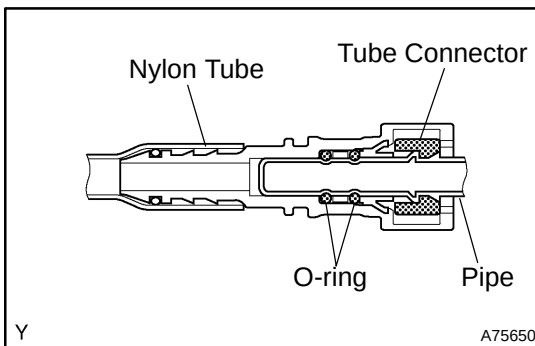
- (c) Disconnect the fuel tank to filler pipe hose.
 (1) Loosen the hose clamp bolt and disconnect the fuel tank to filler pipe hose.



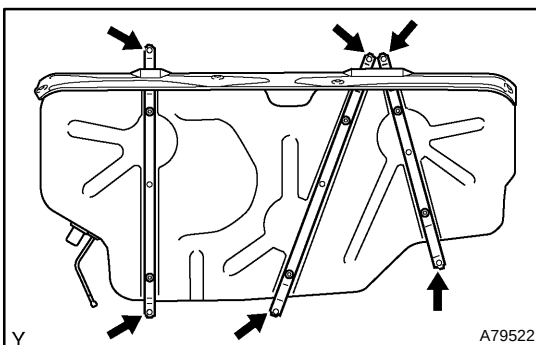
- (d) Disconnect the fuel tube.
 (1) Pinch the tube connector and then pull out the fuel tank main tube.

NOTICE:

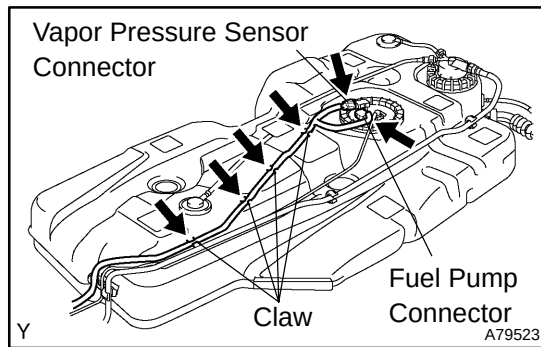
- Check if there is any dirt or mud around the connector before this operation and remove the dirt as necessary.
- Be careful of mud because the quick connector has an O-ring which seals the pipe and connector that can be contaminated.
- Do not use any tool in this operation.
- Do not bend or twist the nylon tube. Protect the connector by covering it with a vinyl or plastic bag.
- When the pipe and the connector are stuck, push and pull the connector to release and pull the connector out carefully.



- (e) Remove the 2 wire harness clamps.



- (f) Set up a transmission jack under the fuel tank.
 (g) Remove the 6 set bolts of the 3 fuel tank bands.



- (h) While operating the transmission jack, unfasten the 4 claws for the wire harness and disconnect the fuel pump connector and vapor pressure sensor connector, then remove the fuel tank and the 3 fuel tank bands from the vehicle

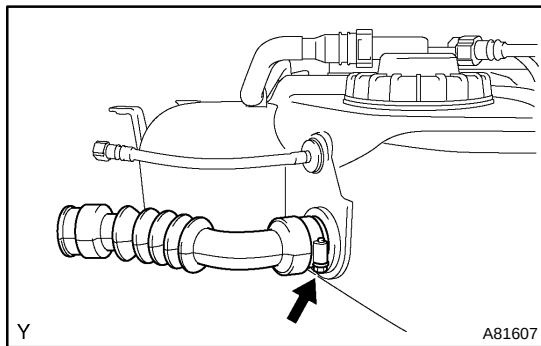
5. REMOVE FUEL TANK MAIN TUBE SUB-ASSY

(See page 11-21)

6. REMOVE FUEL SUCTION TUBE ASSY W/ PUMP & GAGE (See page 11-21)

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7. DRAIN FUEL

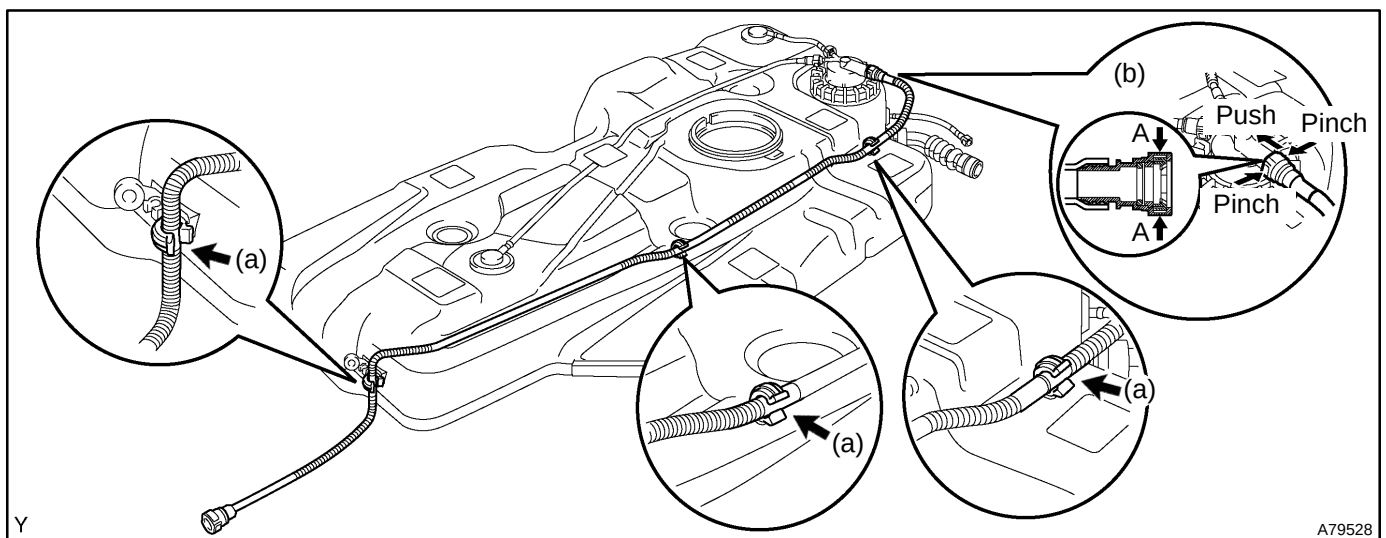


8. REMOVE FUEL TANK TO FILLER PIPE HOSE

- (a) Loosen the hose clamp bolt and remove the fuel tank to filler pipe hose from the fuel tank.

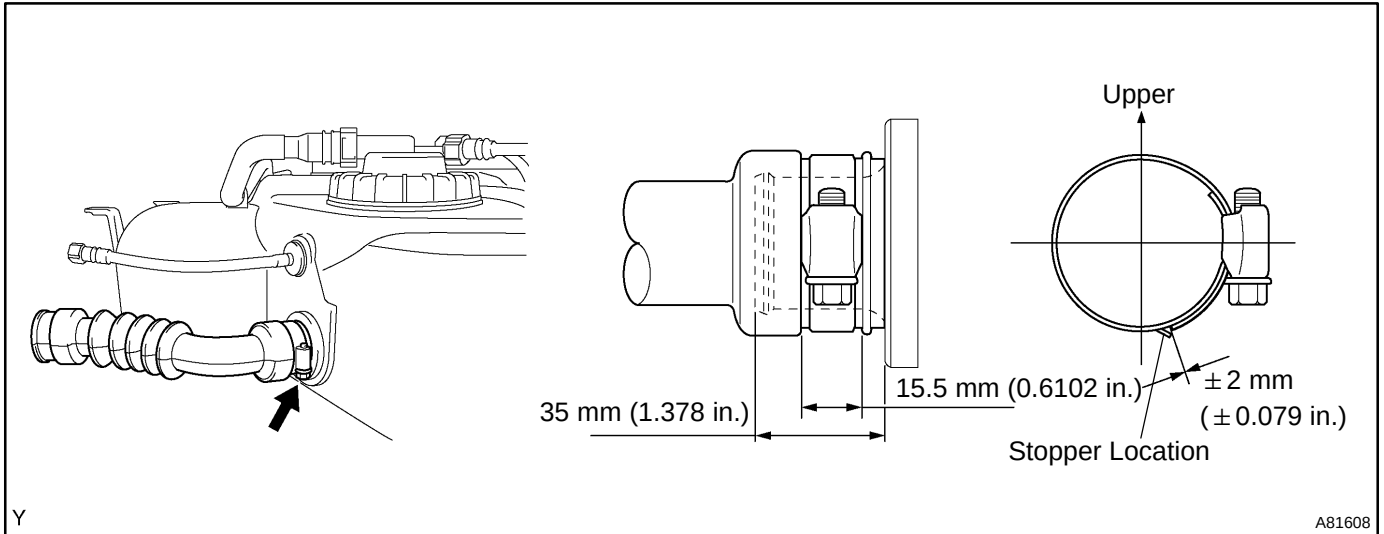
9. REMOVE FUEL TANK VENT HOSE

- (a) Remove the hose of the fuel tank vent hose from the 3 hose clamps.
- (b) Remove the fuel tank vent hose.
- (1) Deeply push the connector to release the locking tab.
 - (2) Pinch portion A.
 - (3) Pull out the connector.



10. CONNECT FUEL TANK VENT HOSE**11. INSTALL FUEL TANK TO FILLER PIPE HOSE**

- (a) Install a new fuel tank to filler pipe hose as shown in the illustration.

**12. INSTALL FUEL SUCTION TUBE ASSY W/ PUMP & GAGE (See page 11-21)**

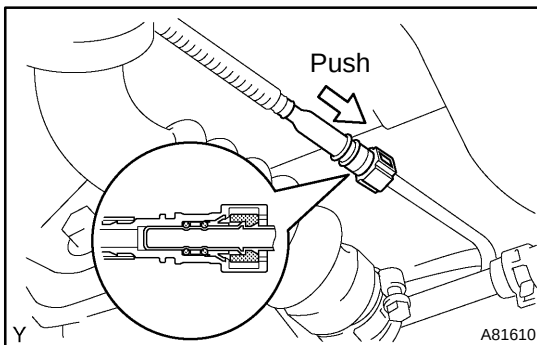
SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

13. INSTALL FUEL TANK MAIN TUBE SUB-ASSY (See page 11-21)**14. INSTALL FUEL TANK ASSY**

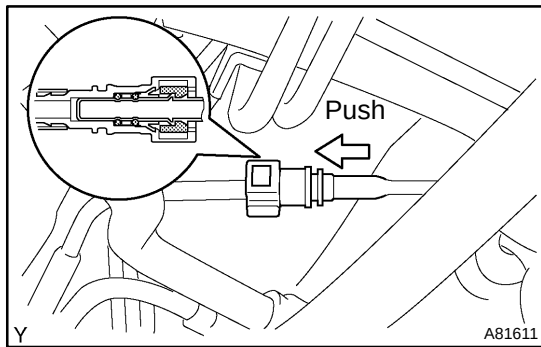
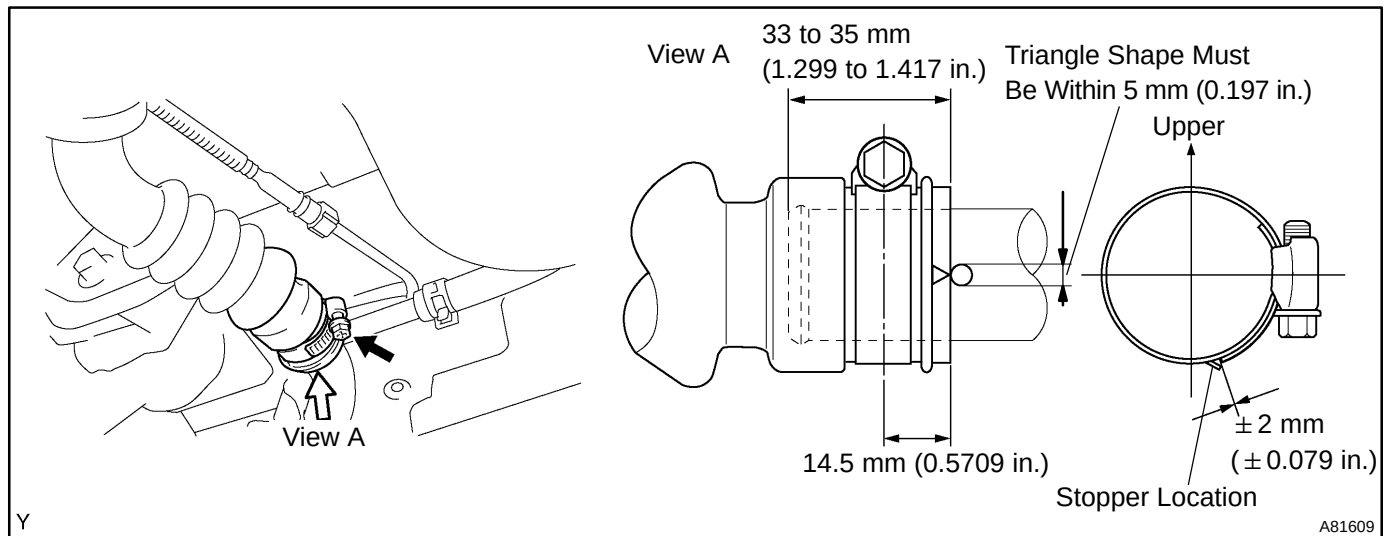
- (a) Set up the fuel tank to the transmission jack.
- (b) While operating the transmission jack, fasten the 4 claws for the wire harness and connect the fuel pump connector and vapor pressure sensor connector, then install the fuel tank and the 3 fuel tank bands to the vehicle.
- (c) Tighten the 6 set bolts of the 3 fuel tank bands.
Torque: 33 N·m (336 kgf·cm, 24 ft·lbf)
- (d) Install the 2 wire harness clamps.
- (e) Connect the fuel tube.
- (1) 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 connector and the pipe are securely connected by pulling on them.



- (f) Connect the fuel tank to filler pipe hose as shown in the illustration.



- (g) Connect the fuel tank main tube.
 (1) 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 connector and the pipe are securely connected by pulling on them.

- (h) Connect the fuel tank vent hose.

15. ADD FUEL

16. CHECK FOR FUEL LEAKS (See page 11-4)

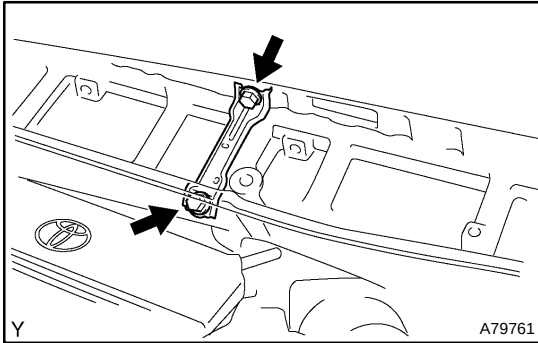
17. INSTALL FUEL TANK FILLER HOSE COVER

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

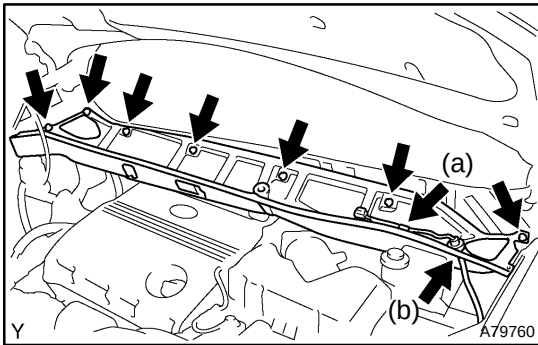
18. INSTALL CHARCOAL CANISTER PROTECTOR (See page 12-11)

REPLACEMENT

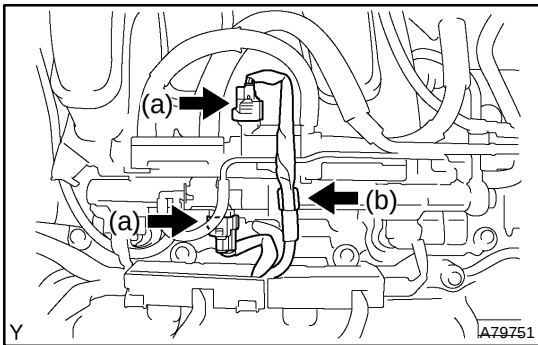
1. DISCHARGE FUEL SYSTEM PRESSURE (See page 11-1)
2. DRAIN ENGINE COOLANT (See page 16-8)
3. REMOVE FRONT WIPER ARM HEAD CAP (See page 66-8)
4. REMOVE FR WIPER ARM LH (See page 66-8)
5. REMOVE FR WIPER ARM RH (See page 66-8)
6. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSY (See page 66-8)
7. REMOVE WINDSHIELD WIPER MOTOR ASSY (See page 66-8)



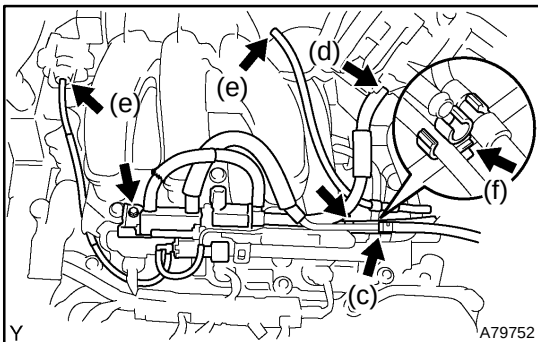
8. REMOVE COWL TOP TO COWL BRACE INNER NO.1
(a) Remove the 2 bolts and the cowl top to cowl brace inner No. 1.



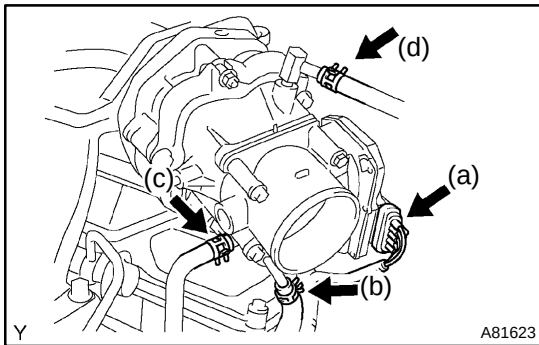
9. REMOVE COWL TOP PANEL SUB- ASSY OUTER FRONT
(a) Remove the wire harness clamp.
(b) Remove the grommet.
(c) Remove the 7 bolts and the cowl top panel outer front.
10. REMOVE V-BANK COVER SUB-ASSY (See page 10-7)
11. REMOVE AIR CLEANER CAP SUB-ASSY (See page 10-7)



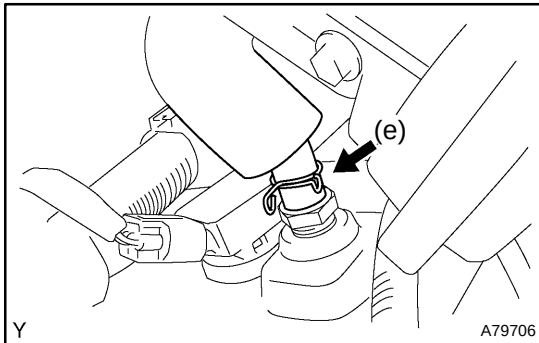
12. REMOVE EMISSION CONTROL VALVE SET
(a) Disconnect the 2 VSV connectors.
(b) Remove the wire harness clamp.



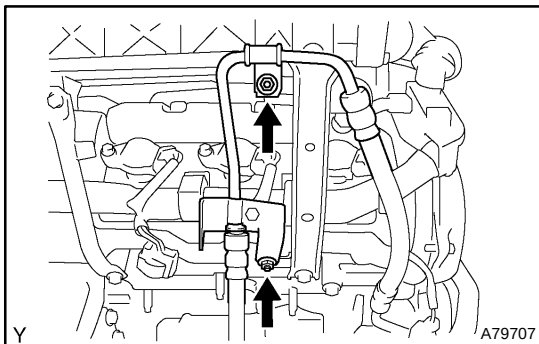
- (c) Disconnect the fuel vapor feed hose.
- (d) Disconnect the fuel vapor feed hose No. 2.
- (e) Disconnect the 2 vacuum hoses.
- (f) Remove the clamp.
- (g) Remove the 2 nuts and the emission control valve set.

**13. REMOVE INTAKE AIR SURGE TANK**

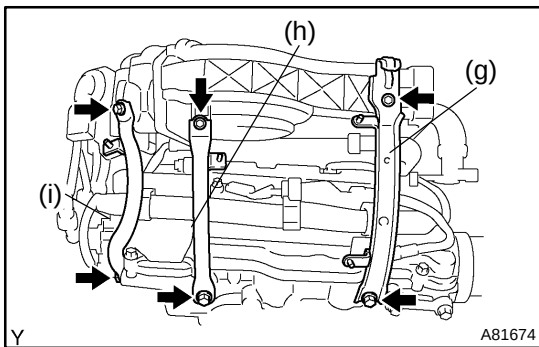
- (a) Disconnect throttle motor connector.
- (b) Disconnect the water by-pass hose No. 3.
- (c) Disconnect the water by-pass hose No. 2.
- (d) Disconnect the union to check valve hose.



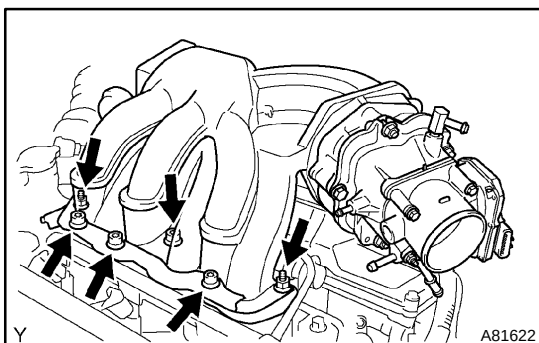
- (e) Disconnect the ventilation hose.



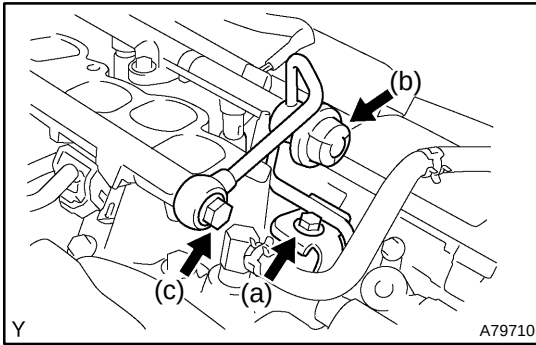
- (f) Remove the 2 set nuts of the pressure feed tube.



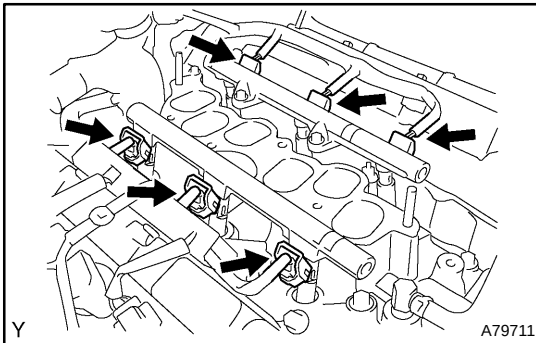
- (g) Remove the 2 bolts and the engine hanger No. 1.
- (h) Remove the 2 bolts and the surge tank stay No. 1.
- (i) Remove the 2 bolts and the surge tank stay No. 2.



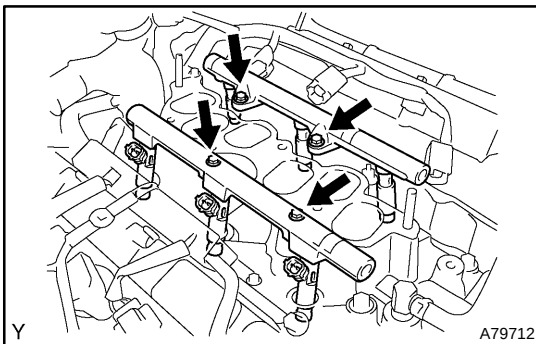
- (j) Using a socket hexagon wrench 8, remove the 4 bolts.
- (k) Remove the 2 nuts, the emission control valve bracket and the intake air surge tank.
- (l) Remove the gasket from the intake air surge tank.

**14. SEPARATE FUEL PIPE SUB-ASSY NO.1**

- (a) Remove the bolt and the fuel pipe No. 1.
- (b) Remove the fuel pressure pulsation damper and the 2 gaskets.
- (c) Remove the fuel pipe No. 2 union bolt and the 2 gaskets.

**15. REMOVE FUEL INJECTOR ASSY**

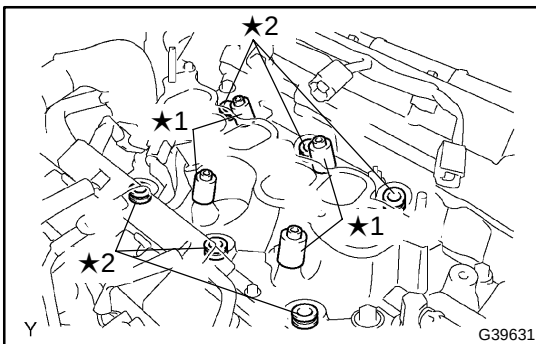
- (a) Disconnect the 6 fuel injector connectors.



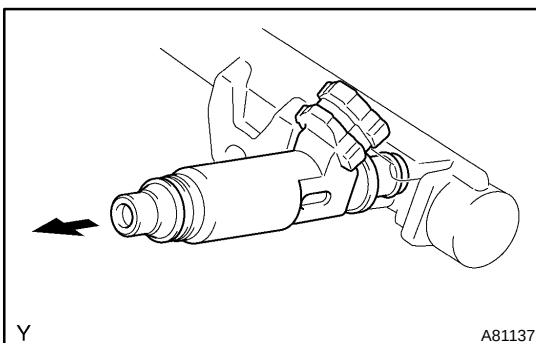
- (b) Remove the 4 bolts and the 2 fuel delivery pipes together with the 6 fuel injectors.

NOTICE:

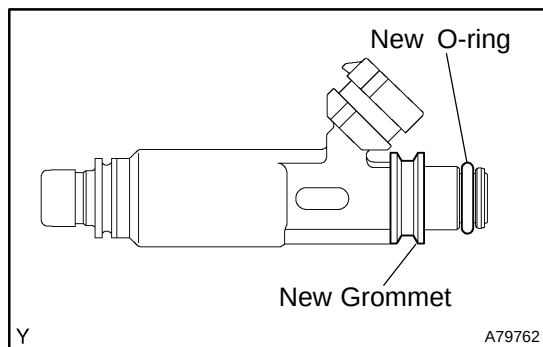
Be careful not to drop the fuel injectors when removing the delivery pipe.



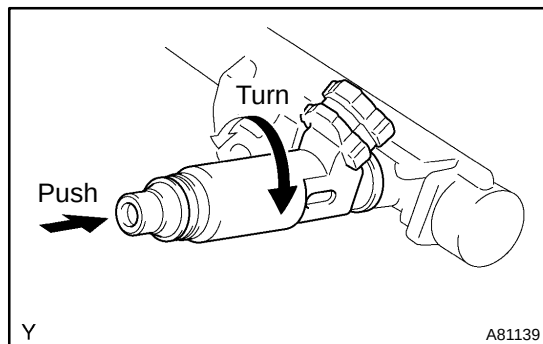
- (c) Remove the 4 delivery pipe No. 1 spacers (★1) and the 6 insulators (★2) from the intake manifold.



- (d) Pull out the fuel injector from the fuel delivery pipe.

**16. INSTALL FUEL INJECTOR ASSY**

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



- (c) Apply a light coat of spindle oil or gasoline on the place where the fuel delivery pipe contacts the O-ring.
- (d) Push the fuel injector while twisting it back and forth to install it in the fuel delivery pipe.

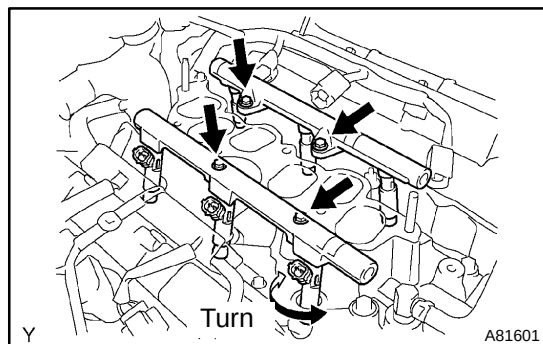
NOTICE:

- **Be careful not to twist the O-ring.**
 - **After installing the fuel injectors, check that they turns smoothly. If not, reinstall it with a new O-ring.**
- (e) Install 6 new insulators and the 4 delivery pipe No. 1 spacers to the intake manifold.
 - (f) Place the 2 fuel delivery pipes and 6 fuel injectors together to the intake manifold.

NOTICE:

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

- (g) Temporarily install 4 bolts which are used to attach the fuel delivery pipe to the intake manifold.
- (h) Check that the fuel injectors rotate smoothly.
If fuel injectors do not rotate smoothly, the probable cause is incorrect installation of O-ring. Replace with the O-ring.
- (i) Tighten the 4 bolts.
Torque: 10 N·m (102 kgf·cm, 7 ft·lbf)
- (j) Connect the 6 fuel injector connectors.

**17. INSTALL FUEL PIPE SUB-ASSY NO.1**

- (a) Install 2 new gaskets and the fuel pipe No. 2 union bolt.
Torque: 33 N·m (331 kgf·cm, 24 ft·lbf)
- (b) Install 2 new gaskets and the fuel pressure pulsation damper.
Torque: 33 N·m (331 kgf·cm, 24 ft·lbf)
- (c) Install the fuel pipe No. 1 with the bolt.
Torque: 20 N·m (199 kgf·cm, 14 ft·lbf)

18. INSTALL INTAKE AIR SURGE TANK

- (a) Install a new gasket to the intake air surge tank.
- (b) Install the intake air surge tank and the emission control valve bracket with the 2 nuts.
Torque: 28 N·m (286 kgf·cm, 21 ft·lbf)
- (c) Using a socket hexagon wrench 8, tighten the 4 bolts.
Torque: 28 N·m (286 kgf·cm, 21 ft·lbf)
- (d) Install the surge tank stay No. 2 with the 2 bolts.
Torque: 20 N·m (199 kgf·cm, 14 ft·lbf)
- (e) Install the surge tank stay No. 1 with the 2 bolts.
Torque: 20 N·m (199 kgf·cm, 14 ft·lbf)

- (f) Install the engine hunger No. 1 with the 2 bolts.
Torque: 20 N·m (199 kgf·cm, 14 ft·lbf)
- (g) Install the pressure feed tube with the 2 nuts.
Torque: 7.8 N·m (80 kgf·cm, 69 in·lbf)
- (h) Connect the ventilation hose.
- (i) Connect the union to check valve hose.
- (j) Connect the water by-pass hose No. 2.
- (k) Connect the water by-pass hose No. 3.
- (l) Connect the throttle motor connector.
- 19. **INSTALL EMISSION CONTROL VALVE SET**
Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)
- 20. **INSTALL AIR CLEANER CAP SUB-ASSY (See page 10-7)**
- 21. **ADD ENGINE COOLANT (See page 16-8)**
- 22. **CHECK FOR FUEL LEAKS (See page 11-4)**
- 23. **CHECK FOR ENGINE COOLANT LEAKS (See page 16-1)**
- 24. **INSTALL V-BANK COVER SUB-ASSY (See page 10-7)**
- 25. **INSTALL COWL TOP PANEL SUB-ASSY OUTER FRONT**
Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)
- 26. **INSTALL COWL TOP TO COWL BRACE INNER NO.1**
Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)
- 27. **INSTALL WINDSHIELD WIPER MOTOR ASSY (See page 66-8)**
- 28. **INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSY**
- 29. **INSTALL FR WIPER ARM RH (See page 66-8)**
- 30. **INSTALL FR WIPER ARM LH (See page 66-8)**
- 31. **INSTALL FRONT WIPER ARM HEAD CAP**