

FUEL SYSTEM

PRECAUTION

1. PRECAUTION

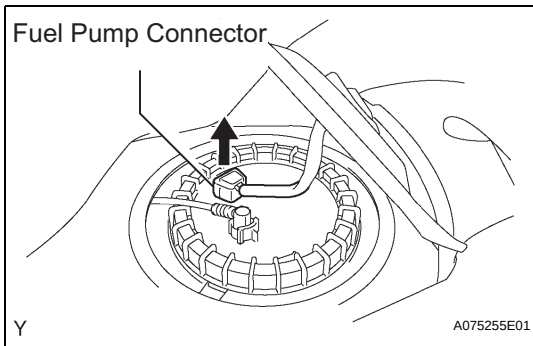
- (a) Before working on fuel system, disconnect the negative (-) battery cable.
- (b) Do not smoke or work near fire when handling the fuel system.
- (c) Keep gasoline away from rubber or leather parts.

2. DISCHARGE FUEL SYSTEM PRESSURE

CAUTION:

- Do not disconnect any part of the fuel system pressure until you have discharged the fuel system pressure.
- Even after discharge 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.

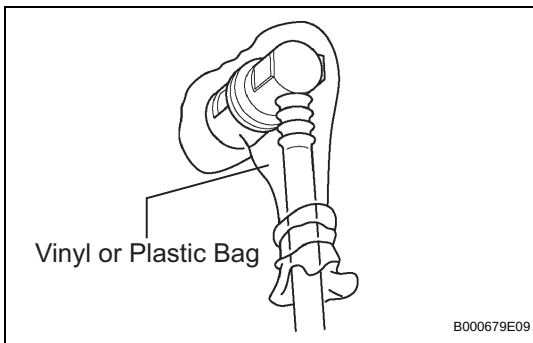
FU

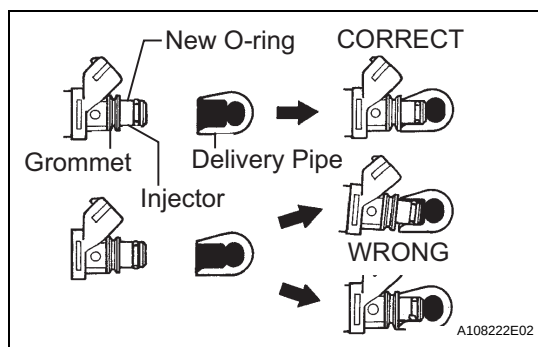


- (a) Disconnect the fuel pump connector.
- (b) Start the engine. After the engine has stopped, turn the ignition switch OFF.
- (c) Disconnect negative (-) battery cable.
- (d) Connect the fuel pump connector.

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 the pressure in the fuel system.
 - (2) Disconnect the fuel pump tube (See page [FU-35](#)).
 - (3) Drain the fuel that remained inside the fuel pump tube.
 - (4) To prevent the disconnected fuel pump tube from being damaged and foreign objects from being introduced, cover with a vinyl or plastic bag.
 - (5) Place a tray under the vehicle or point of disconnection to catch any fuel that may spill.



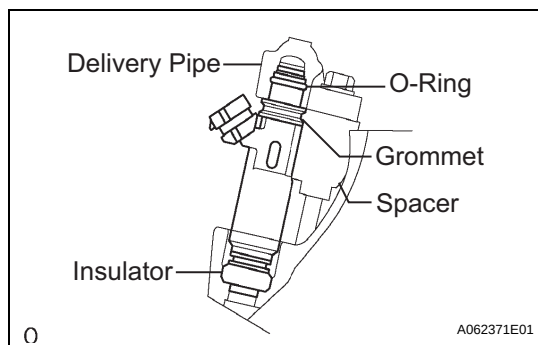


- (b) Observe the following precautions when removing and installing the fuel injectors.

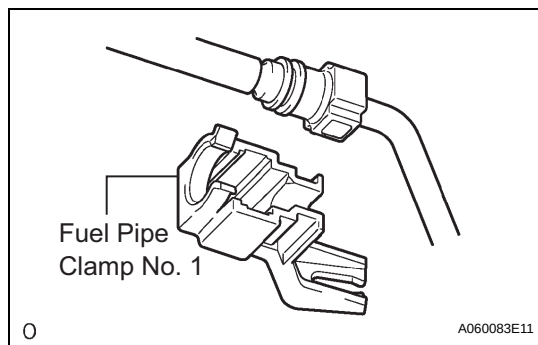
NOTICE:

Never reuse the O-ring.

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

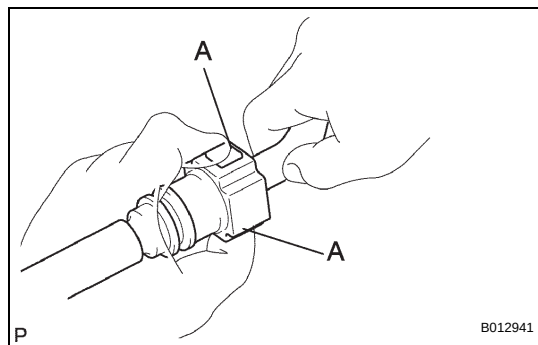


- (c) Install the injector to the delivery pipe and cylinder head as shown in the illustration. Before installing the injector, be sure to apply grease or gasoline on the place where the delivery pipe contacts the O-ring of the injector.

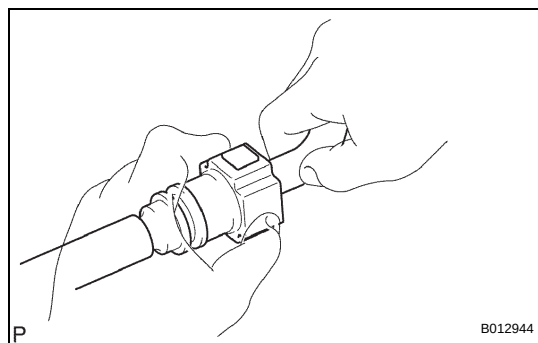


- (d) Observe these precautions when disconnecting the fuel tube connectors.

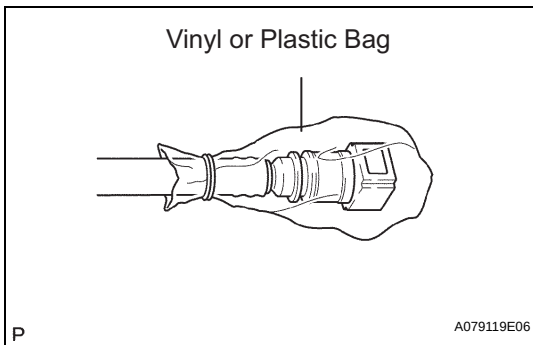
- (1) Disconnect the fuel pipe clamp from the connector.
- (2) Check if there is any dirt or mud on the pipe and around the connector before disconnecting them and remove the dirt as necessary.



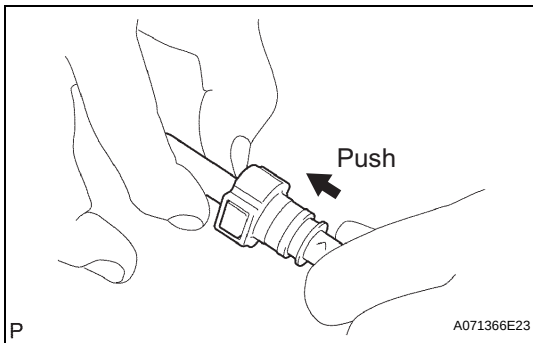
- (3) Disconnect the connector from the hose while pinching portion A with your fingers as shown in the illustration.



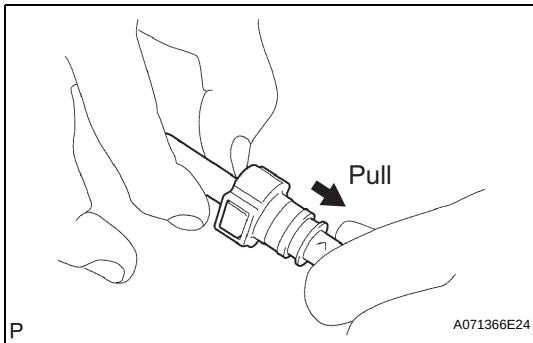
- (4) If the connector and the pipe are stuck, pinch the fuel pipe, push and pull the connector to free to disconnect and pull it out. Do not use any tools.
- (5) If there is dirt or any other substance on the sealing surface that might interfere with the seal, clean the area thoroughly before assembly.



- (6) Prevent the disconnected pipe and connector from damage and dirt by covering them with a vinyl or plastic bag.



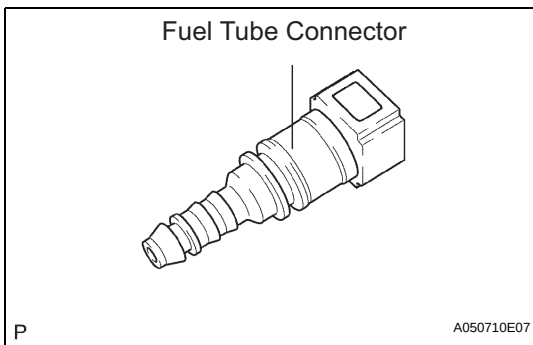
- (e) Observe these precautions when connecting the fuel tube connector.
- (1) Check that there is any damage or foreign objects in the connected part of the pipe.
 - (2) Align the axis of the connector with the axis of the pipe, and push into the connector until the connector makes a "click" sound. In case that the connection is tight, apply little amount of fresh engine oil on the tip of the pipe.



- (3) After having finished the connection, check if the pipe and the connector are securely connected by pulling on them.
- (4) Install the fuel pipe clamp to the connector.
- (5) Check if there is any fuel leakage.

4. CHECK FOR FUEL LEAKS

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



ON-VEHICLE INSPECTION

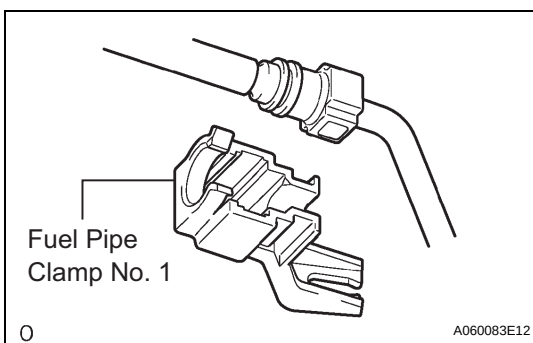
1. CHECK FUEL PRESSURE

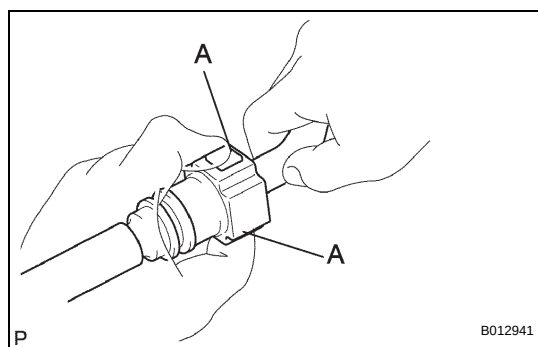
- (a) Discharge fuel system pressure and take precautions for possible fuel spillage (See page [FU-1](#)).
- (b) Check the battery voltage is above 12 V.
- (c) Disconnect the negative (-) battery cable.
- (d) Pull out the connector from a new fuel tube.

HINT:

Part No. 23801-20180

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

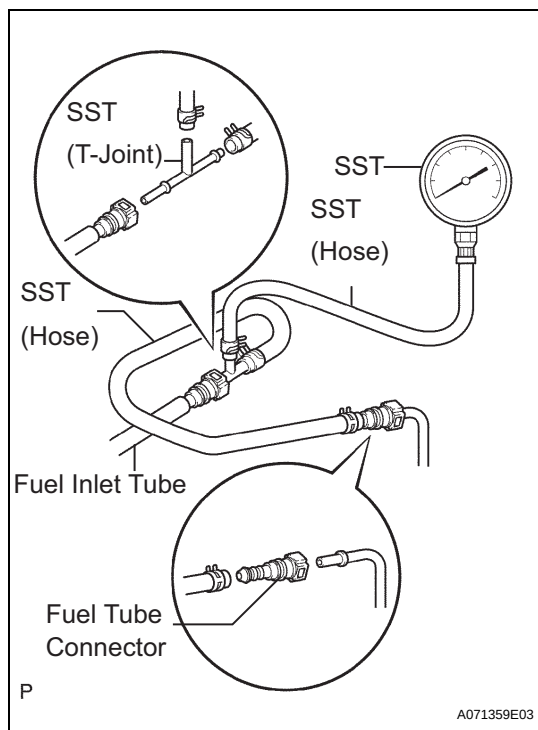




- (f) Disconnect the fuel tube connector from the fuel pipe by pinching portion A with your fingers as shown in the illustration.

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) and fuel tube connector using SST as shown in the illustration.

SST 09268-41047 (95336-08070), 09268-45014 (09268-41250, 09268-41200, 09268-41220)

- (h) Wipe up any gasoline.
 (i) Reconnect the negative (-) battery cable.
 (j) Connect the intelligent 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 intelligent 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 (105 kgf/cm², 21 psi)

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

- (q) After checking 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 CHECK FOR FUEL LEAKS

- (a) When using intelligent tester
 (1) Connect the intelligent tester to the DLC3.

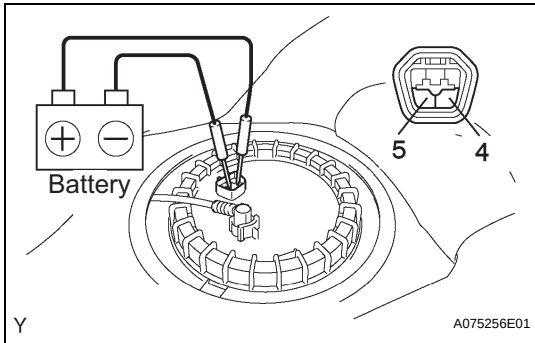
- (2) Turn the ignition switch ON and intelligent tester main switch ON.

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

- (3) Select the active test mode on the intelligent tester.
- (4) If you need help to select active test on the intelligent tester, refer to the intelligent tester operator's manual.

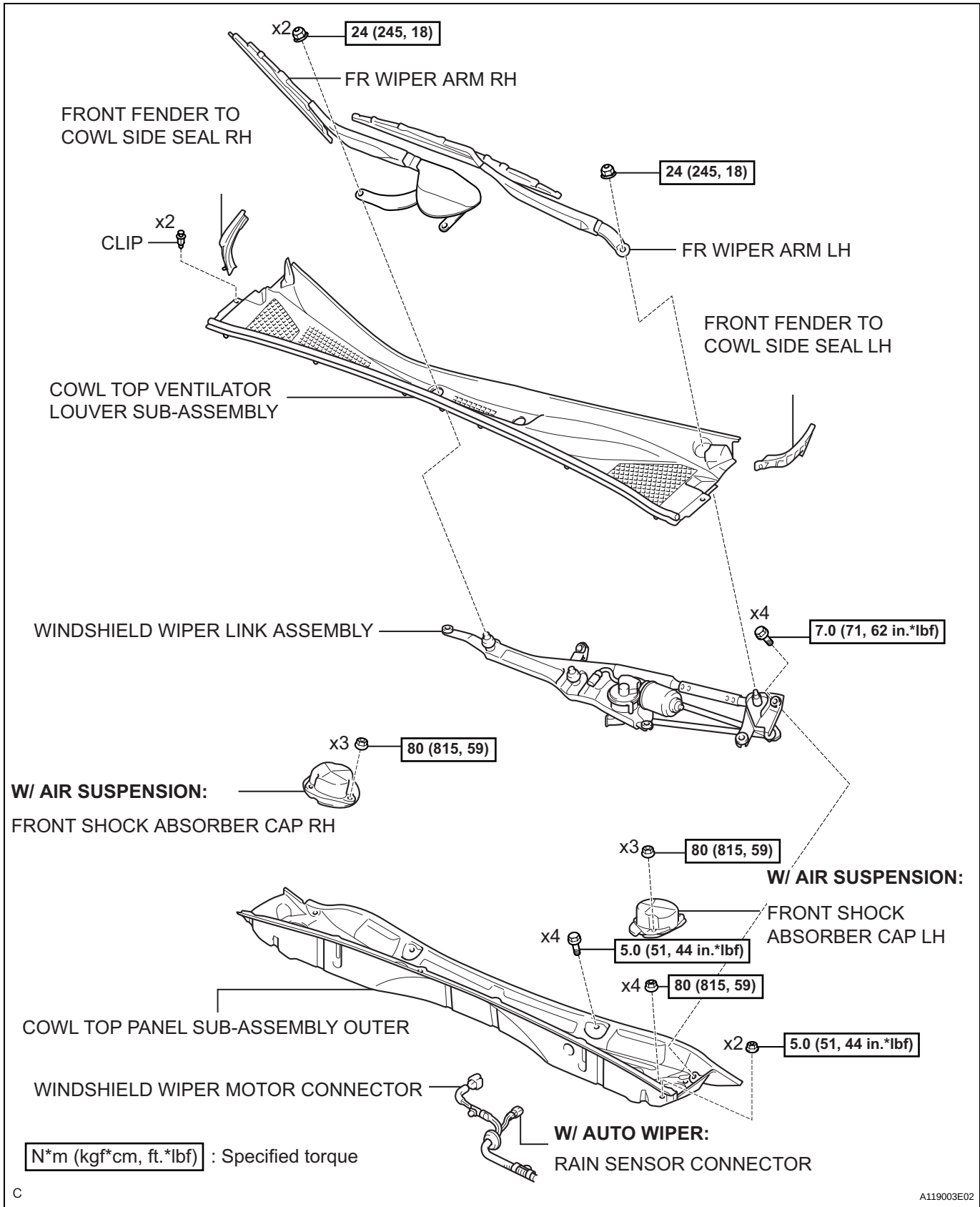
- (b) When not using the intelligent tester

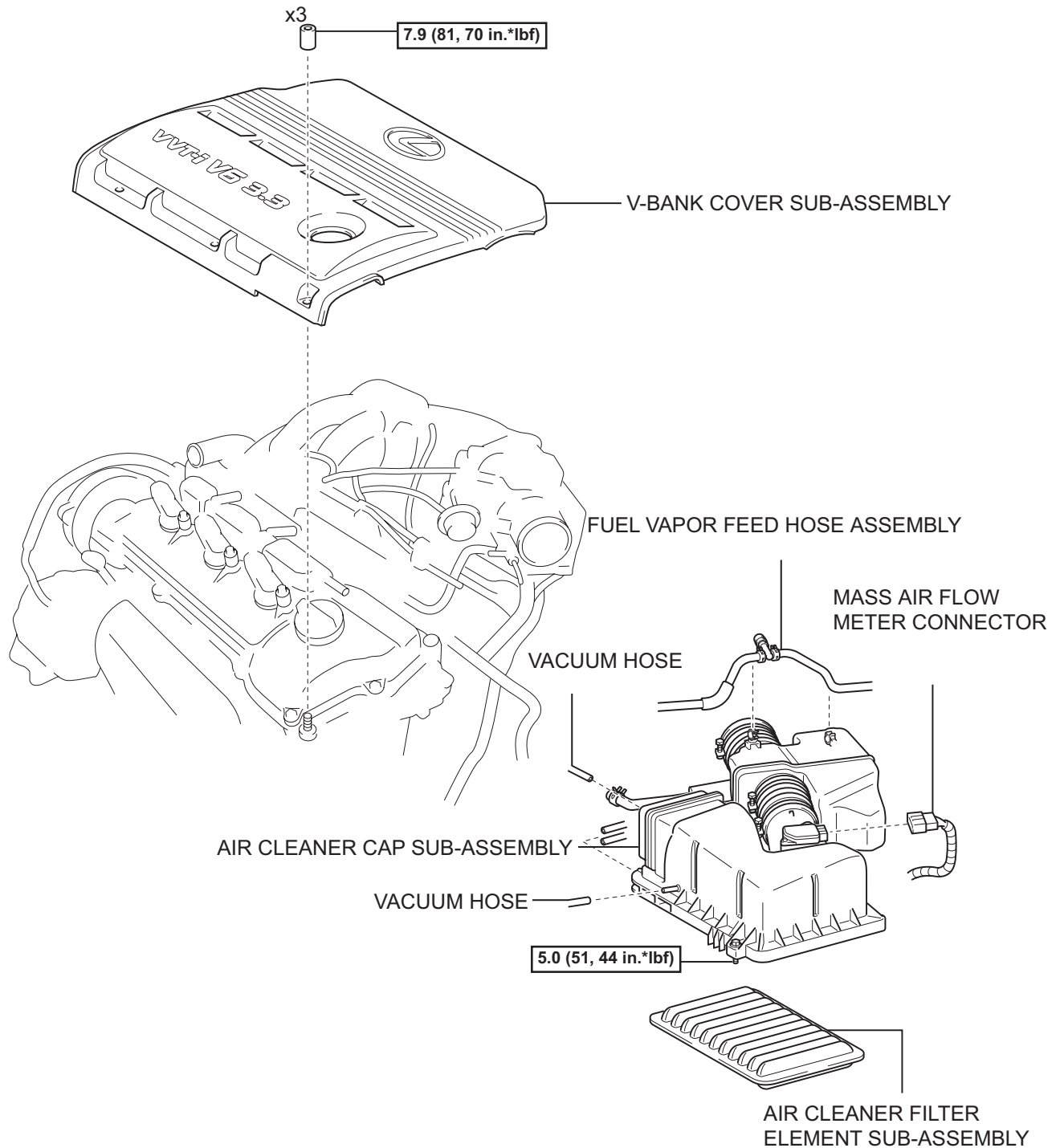
- (1) Connect the positive (+) lead from the battery to terminal 4 of the connector, and the negative (-) lead to terminal 5.



FUEL INJECTOR

COMPONENTS

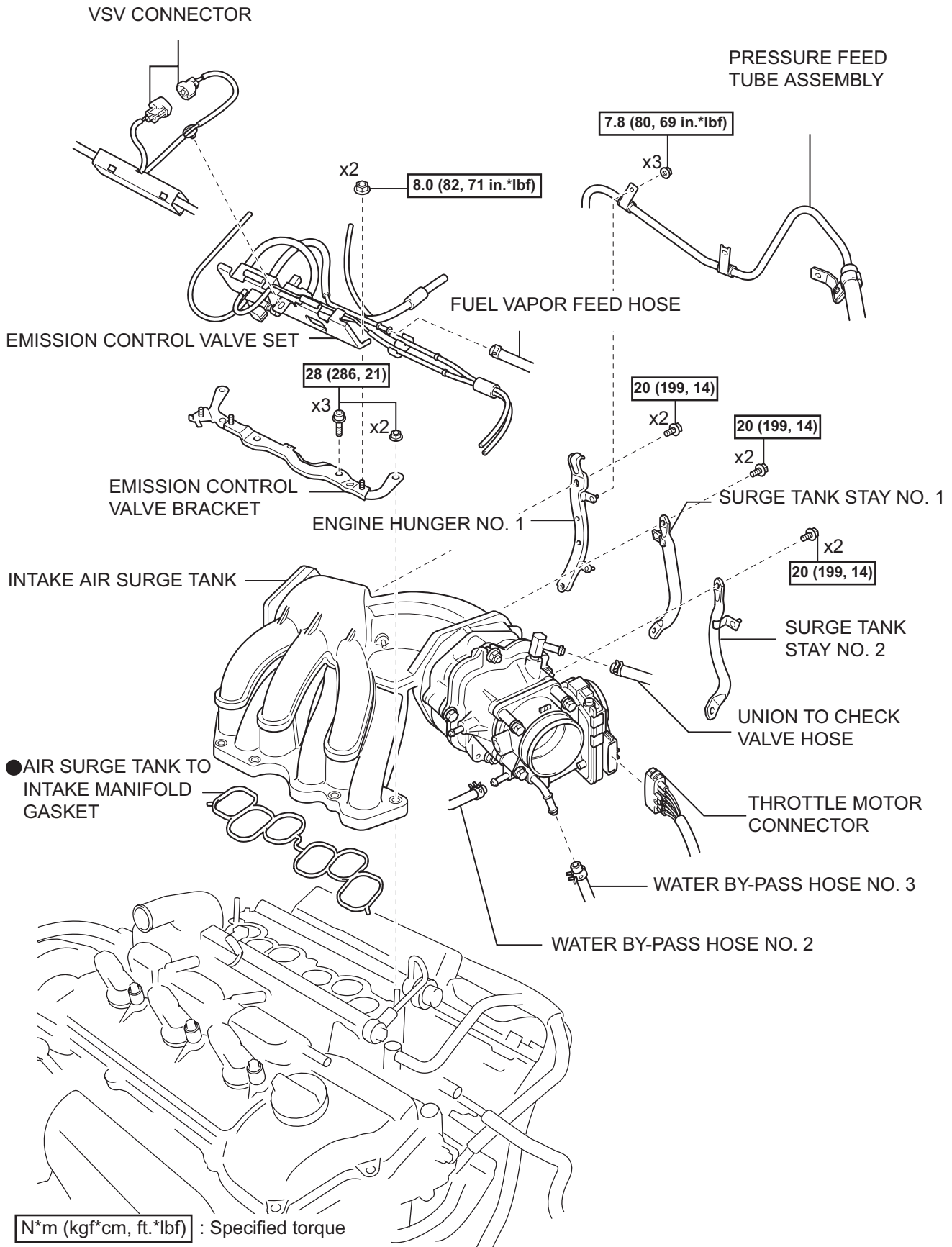


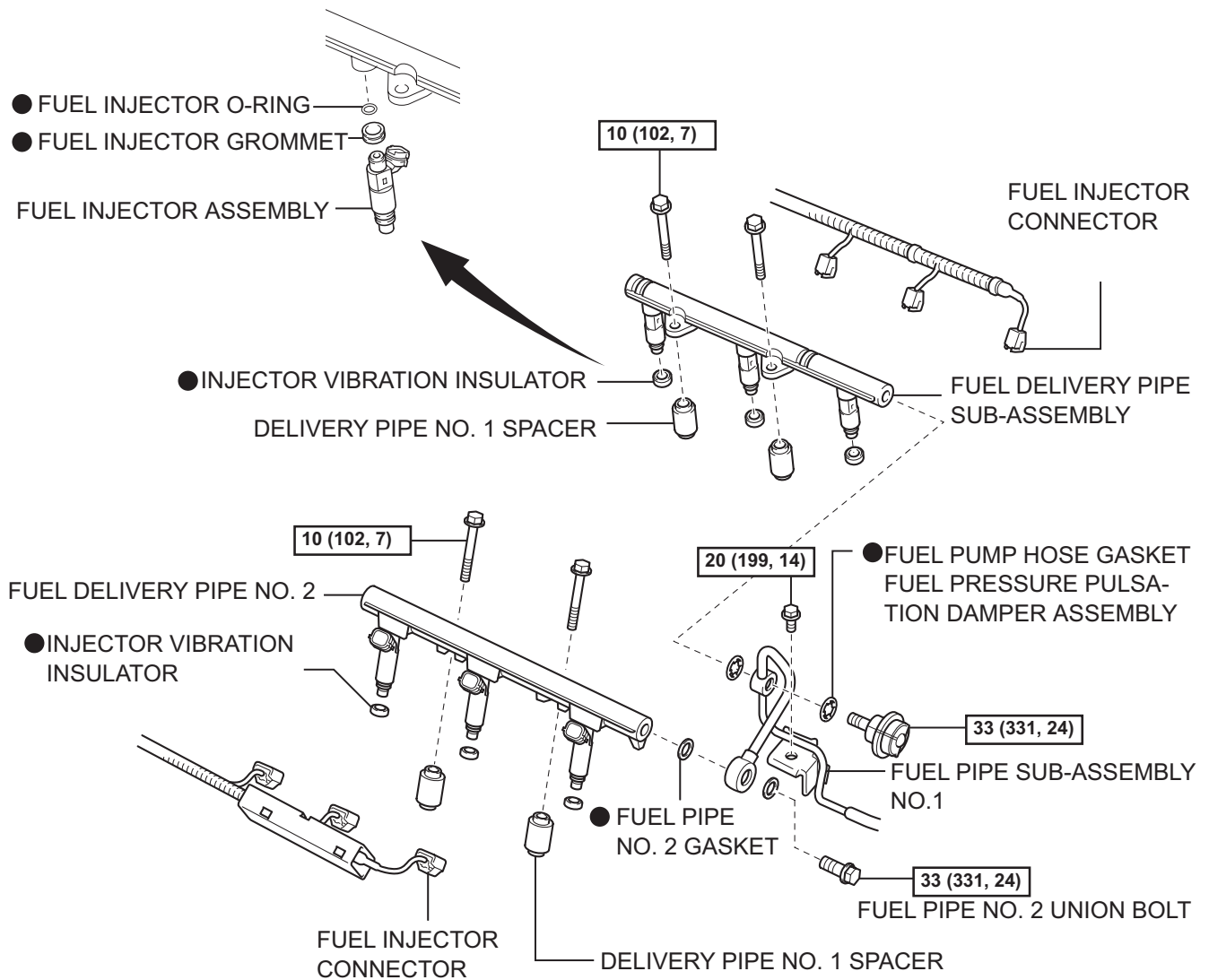


N*m (kgf*cm, ft.*lbf) : Specified torque

FU

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$\boxed{\text{N*m (kgf*cm, ft.*lbf)}}$: Specified torque

● Non-reusable part

Y

REMOVAL

1. DISCHARGE FUEL SYSTEM PRESSURE

HINT:

See page [FU-1](#).

2. DRAIN ENGINE COOLANT (See page [CO-7](#))

3. REMOVE FR WIPER ARM LH (See page [WW-37](#))

4. REMOVE FR WIPER ARM RH (See page [WW-37](#))

5. REMOVE FRONT FENDER TO COWL SIDE SEAL LH

6. REMOVE FRONT FENDER TO COWL SIDE SEAL RH

7. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (See page [WW-37](#))

8. REMOVE WINDSHIELD WIPER LINK ASSEMBLY (See page [WW-37](#))

9. REMOVE COWL TOP PANEL SUB-ASSEMBLY OUTER

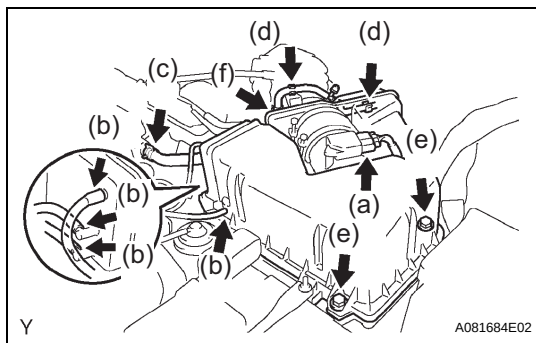
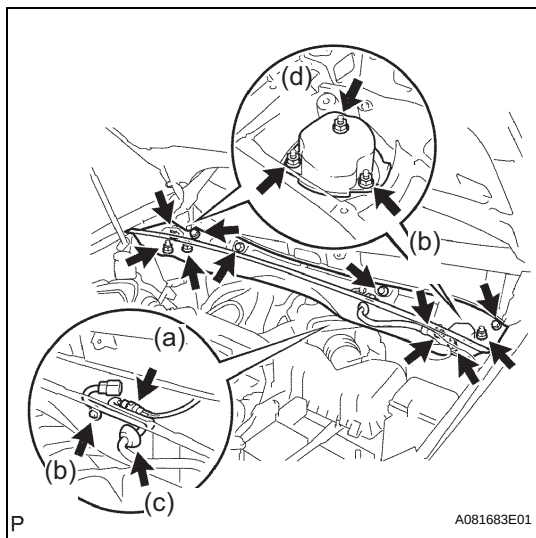
- Disconnect the rain sensor connector. (w/ Auto Wiper)
- Remove the 2 wire harness clamps.
- Remove the grommet.
- Remove the 6 nuts, and then remove 2 front shock absorber caps. (w/ Air Suspension)
- Remove the 4 set nuts of the shock absorber. (w/o Air Suspension)
- Remove the 4 bolts and 2 nuts, and then remove the cowl top panel outer.
- Tighten the 6 set nuts of the shock absorber.
Torque: 80 N*m (815 kgf*cm, 59 ft.*lbf)

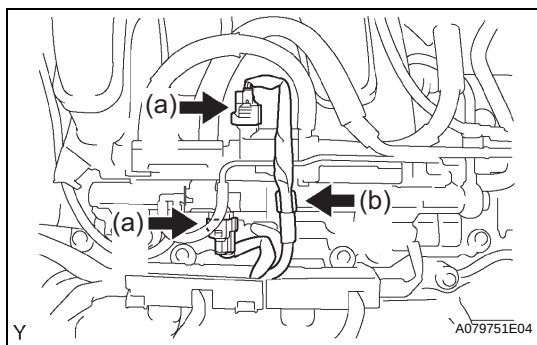
10. REMOVE V-BANK COVER SUB-ASSEMBLY (See page [ES-372](#))

11. REMOVE AIR CLEANER CAP SUB-ASSEMBLY

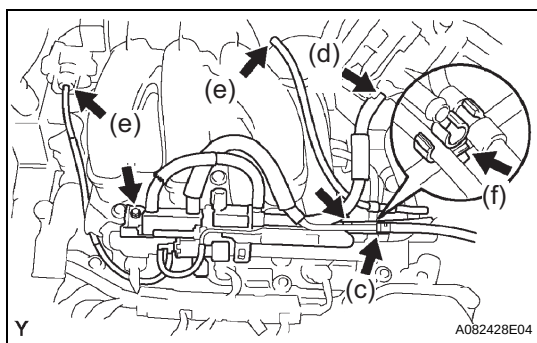
- Disconnect the mass air flow meter connector.
- Disconnect the 4 vacuum hoses.
- Disconnect the ventilation hose No. 2.
- Remove the fuel vapor feed hose from the 2 hose clamps.
- Loosen the 2 air cleaner cap bolts.
- Loosen the air cleaner hose clamp bolt, and remove the air cleaner cap.
- Remove the air cleaner filter element.

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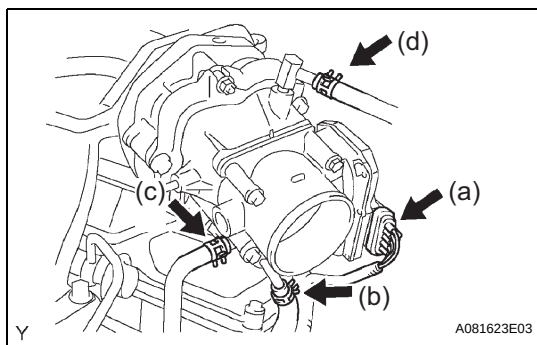
**12. REMOVE EMISSION CONTROL VALVE SET**

- (a) Disconnect the 2 VSV connectors.
- (b) Remove the wire harness clamp.

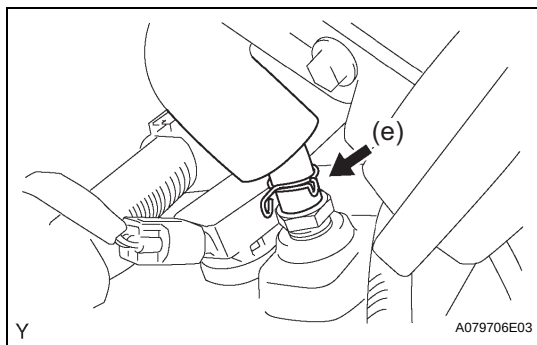


- (c) Disconnect the fuel vapor feed hose No. 1.
- (d) Disconnect the fuel vapor feed hose No. 2.
- (e) Disconnect the 2 vacuum hoses.
- (f) Remove the clamp.
- (g) Remove the 2 nuts, and then remove the emission control valve set.

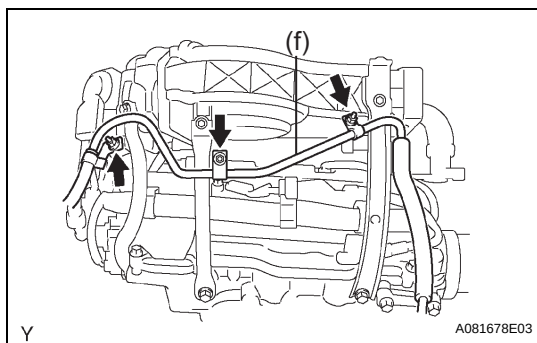
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**13. REMOVE INTAKE AIR SURGE TANK**

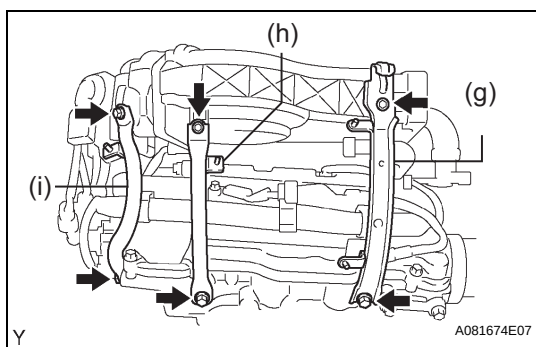
- (a) Disconnect the throttle motor connector.
- (b) Disconnect the water by-pass hose No. 3.
- (c) Disconnect the water by-pass hose No. 2.
- (d) Disconnect the union to check valve hose.



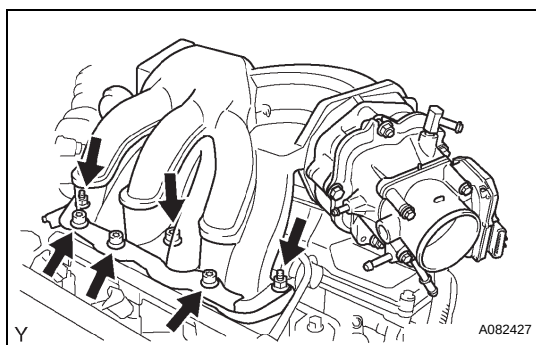
- (e) Disconnect the ventilation hose.



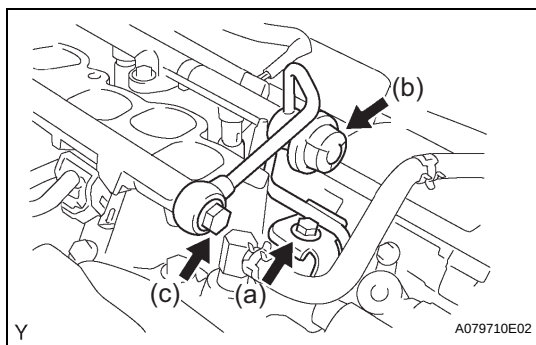
- (f) Remove the 3 nuts and separate the pressure feed tube.



- (g) Remove the 2 bolts, and then remove the engine hunger No. 1.
- (h) Remove the 2 bolts, and then remove the surge tank stay No. 1.
- (i) Remove the 2 bolts, and then remove the surge tank stay No. 2.

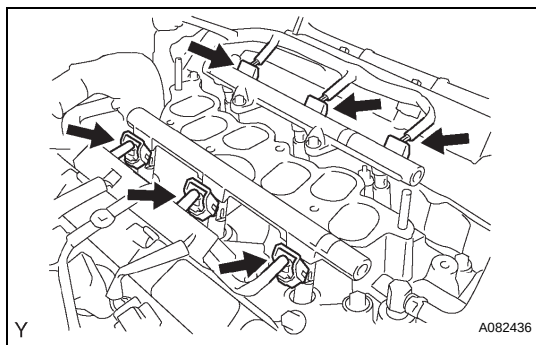


- (j) Using a socket hexagon wrench 8, remove the 4 bolts.
- (k) Remove the 2 nuts, and then remove the emission control valve bracket and the intake air surge tank.
- (l) Remove the gasket from the intake air surge tank.



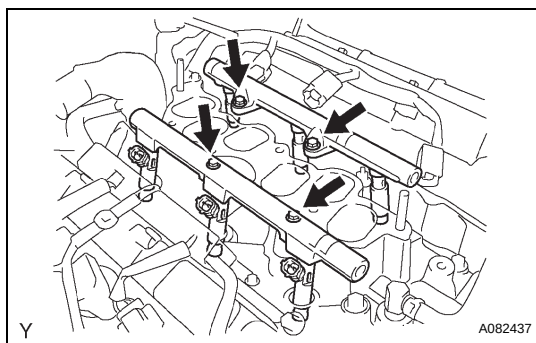
14. SEPARATE FUEL PIPE SUB-ASSEMBLY NO.1

- (a) Remove the bolt and separate 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 ASSEMBLY

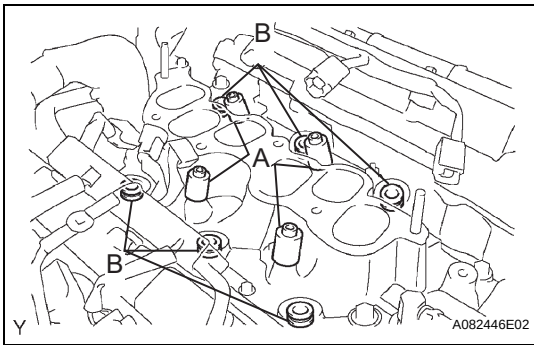
- (a) Disconnect the 6 fuel injector connectors.



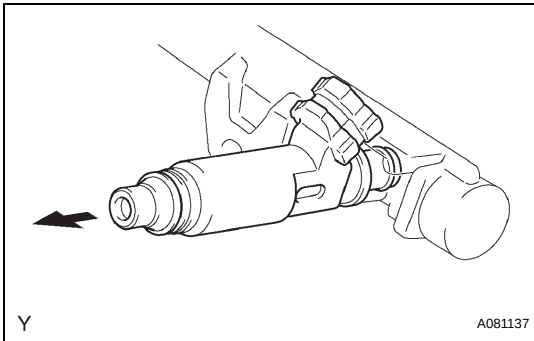
- (b) Remove the 4 bolts, and then remove the 2 fuel delivery pipes together with the 6 fuel injectors.

NOTICE:

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



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



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

INSPECTION

1. INSPECT FUEL INJECTOR ASSEMBLY

(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

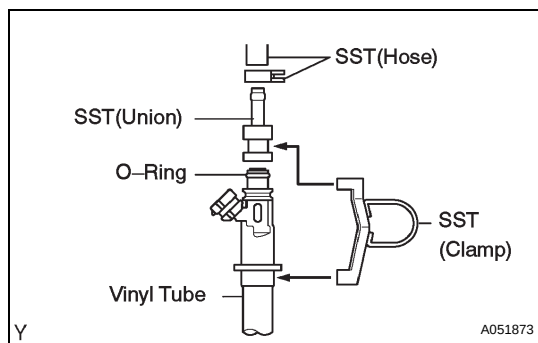
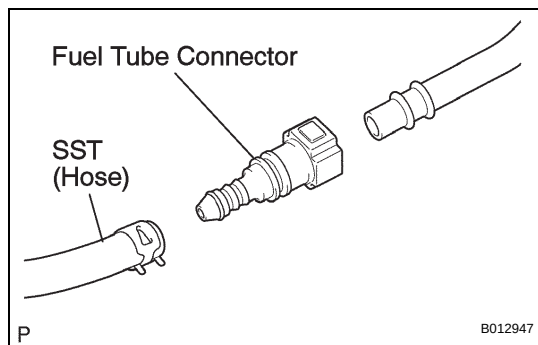
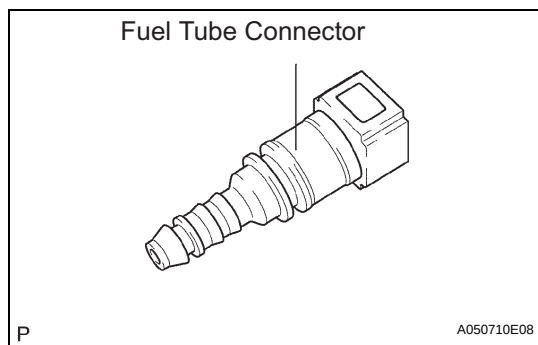
CAUTION:

- 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) Pull out the connector from a new fuel tube.

HINT:

Part No. 23801-20180



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

SST 09268-41047 (95336-08070)

CAUTION:

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

- (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)

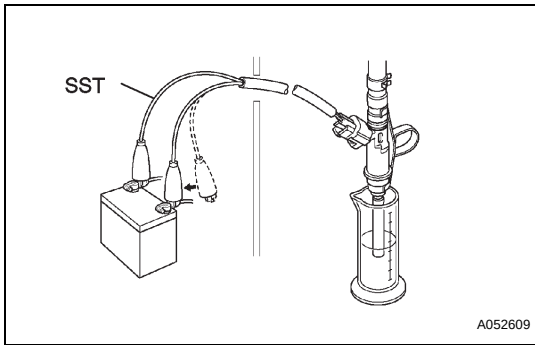
SST 09268-41047 (09268-41110, 09268-41300, 95336-08070)

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

HINT:

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

- (6) Operate the fuel pump (See page [FU-4](#)).
If the injection volume is not as specified, replace the injector.



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

SST 09842-30070

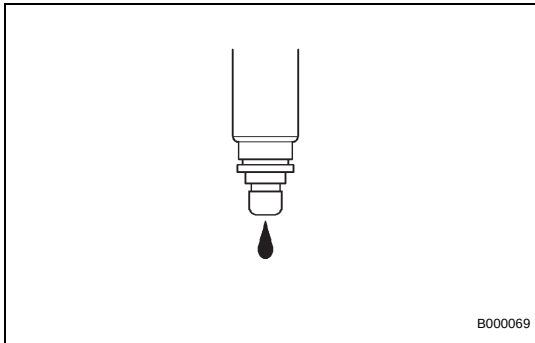
Injection volume

Injection volume	Difference between each injector
60 to 73 cm ³ (3.7 to 4.5 cu in.) per 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.

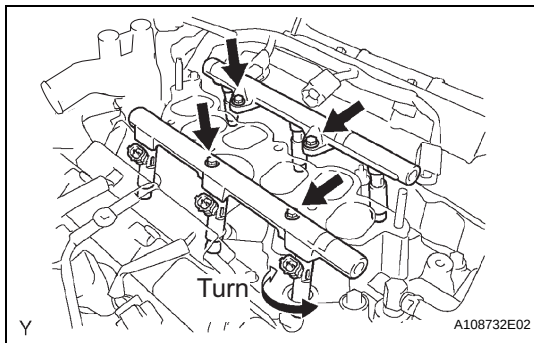
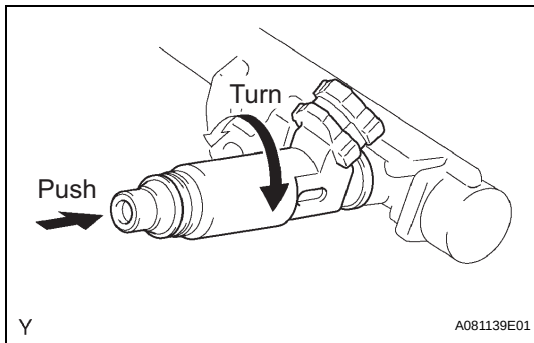
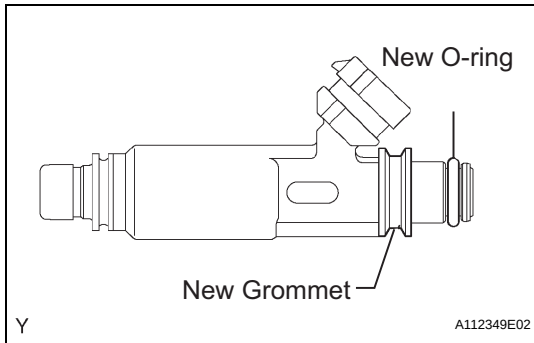
Fuel drop:

1 drop or less in 12 minutes

INSTALLATION

1. INSTALL FUEL INJECTOR ASSEMBLY

- Install new grommets to each fuel injector.
- Apply a light coat of spindle oil or gasoline to new O-rings, and install them to each fuel injector.



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

NOTICE:

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

- Install 6 new insulators and the 4 delivery pipe No. 1 spacers to the intake manifold.
- Place the 2 fuel delivery pipes and the 6 fuel injectors together to the intake manifold.

NOTICE:

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

- Temporarily install 4 bolts which are used to attach the fuel delivery pipe to the intake manifold.
- 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.
- Tighten the 4 bolts.
- Connect the 6 fuel injector connectors.

Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)

2. INSTALL FUEL PIPE SUB-ASSEMBLY NO.1

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

3. INSTALL INTAKE AIR SURGE TANK

- 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 3 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.

4. INSTALL EMISSION CONTROL VALVE SET**Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)****5. INSTALL AIR CLEANER CAP SUB-ASSEMBLY****Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)****6. CHECK CONNECTION OF VACUUM HOSE**

HINT:

See page [EM-127](#).**7. ADD ENGINE COOLANT (See page [CO-7](#))****8. CHECK FOR ENGINE COOLANT LEAKS**

HINT:

See page [CO-1](#).**9. CHECK FOR FUEL LEAKS**

HINT:

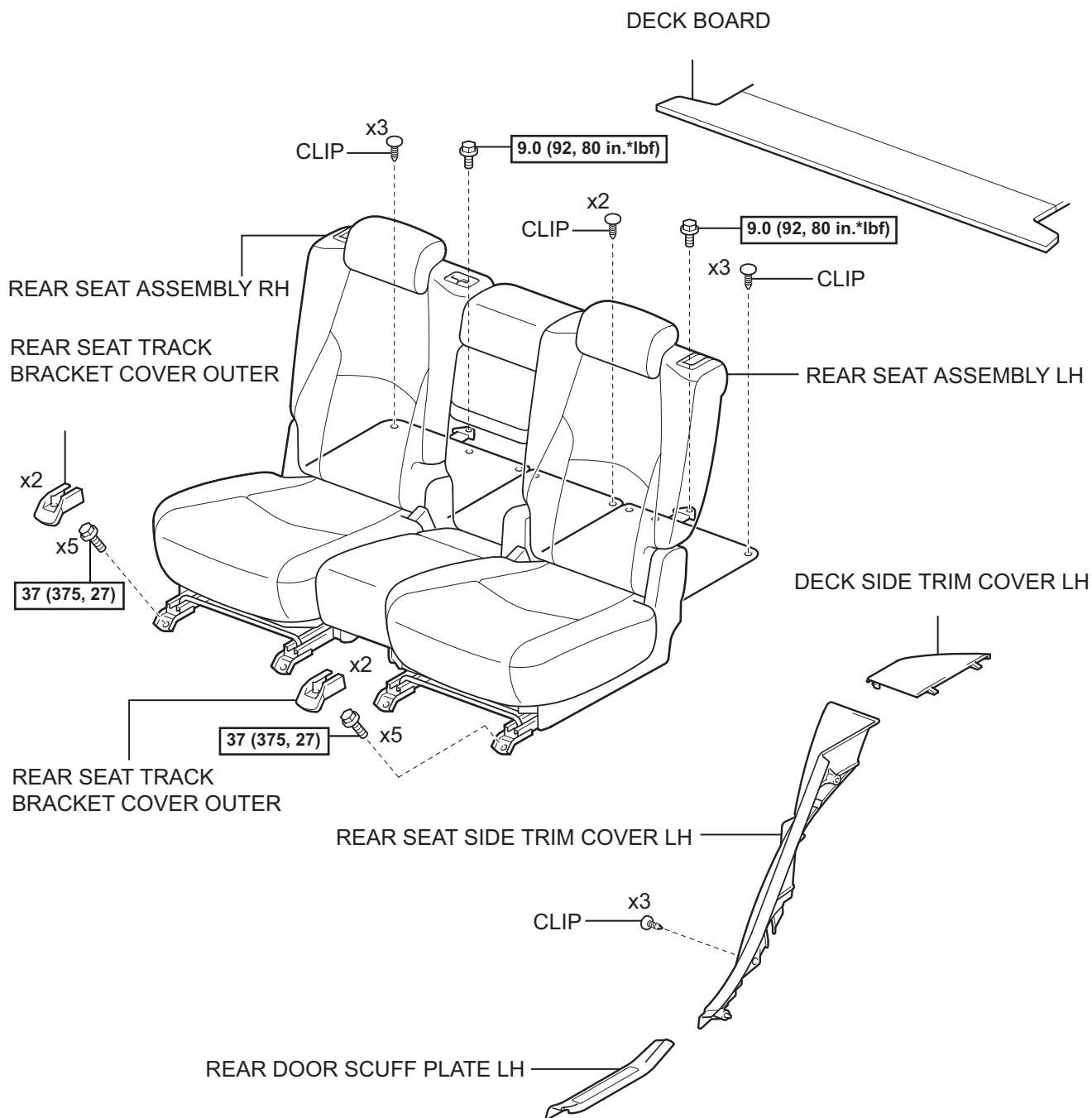
See page [FU-4](#).**10. INSTALL V-BANK COVER SUB-ASSEMBLY (See page [ES-374](#))****11. INSTALL COWL TOP PANEL SUB-ASSEMBLY OUTER****Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf) (Set bolts and nuts of the cowl top panel outer)****Torque: 80 N*m (815 kgf*cm, 59 ft.*lbf) (Set nuts of the shock absorber)****12. INSTALL WINDSHIELD WIPER LINK ASSEMBLY (See page [WW-39](#))****13. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY****14. INSTALL FRONT FENDER TO COWL SIDE SEAL RH****15. INSTALL FRONT FENDER TO COWL SIDE SEAL LH****16. INSTALL FR WIPER ARM RH (See page [WW-40](#))**

17. INSTALL FR WIPER ARM LH (See page [WW-39](#))

FUEL PUMP

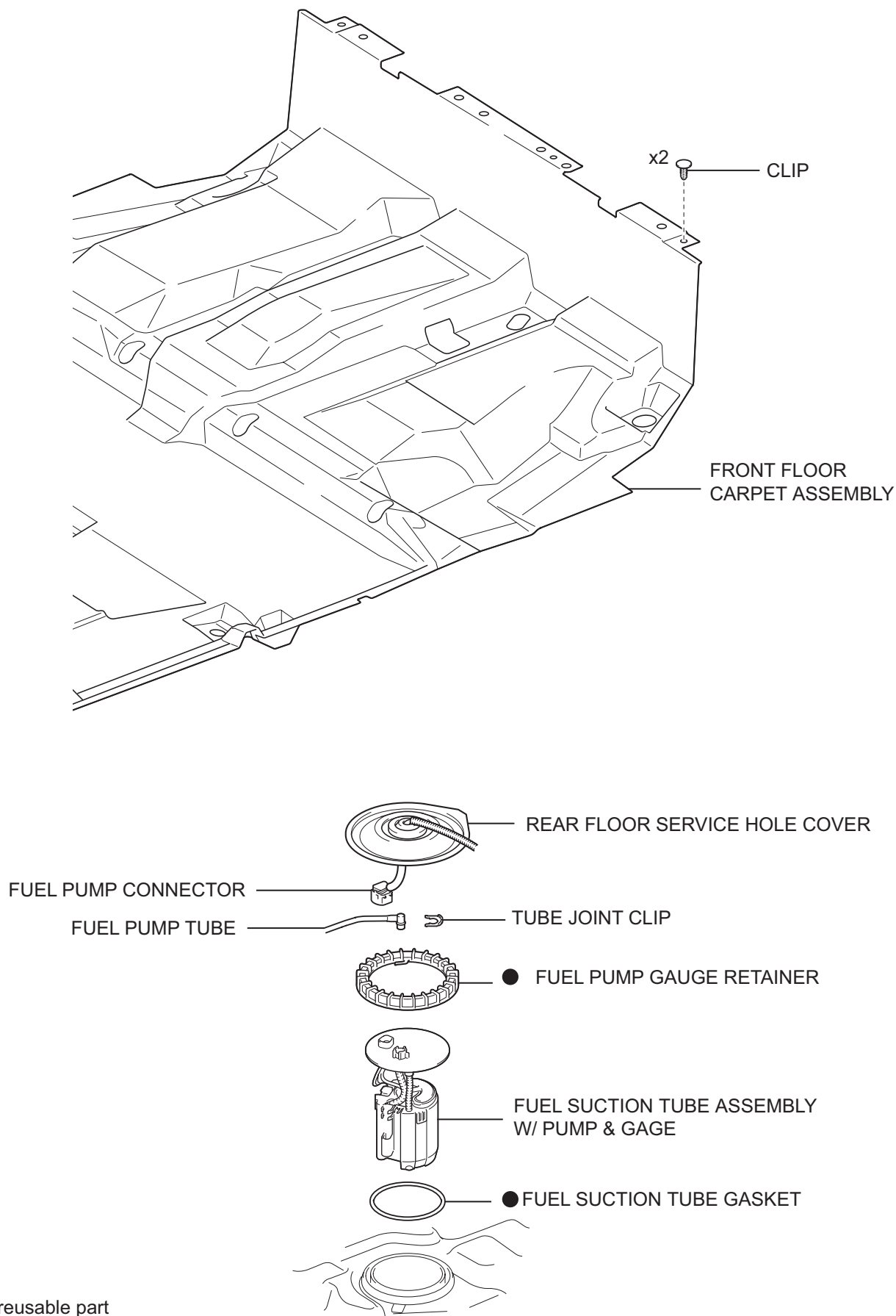
COMPONENTS

FU

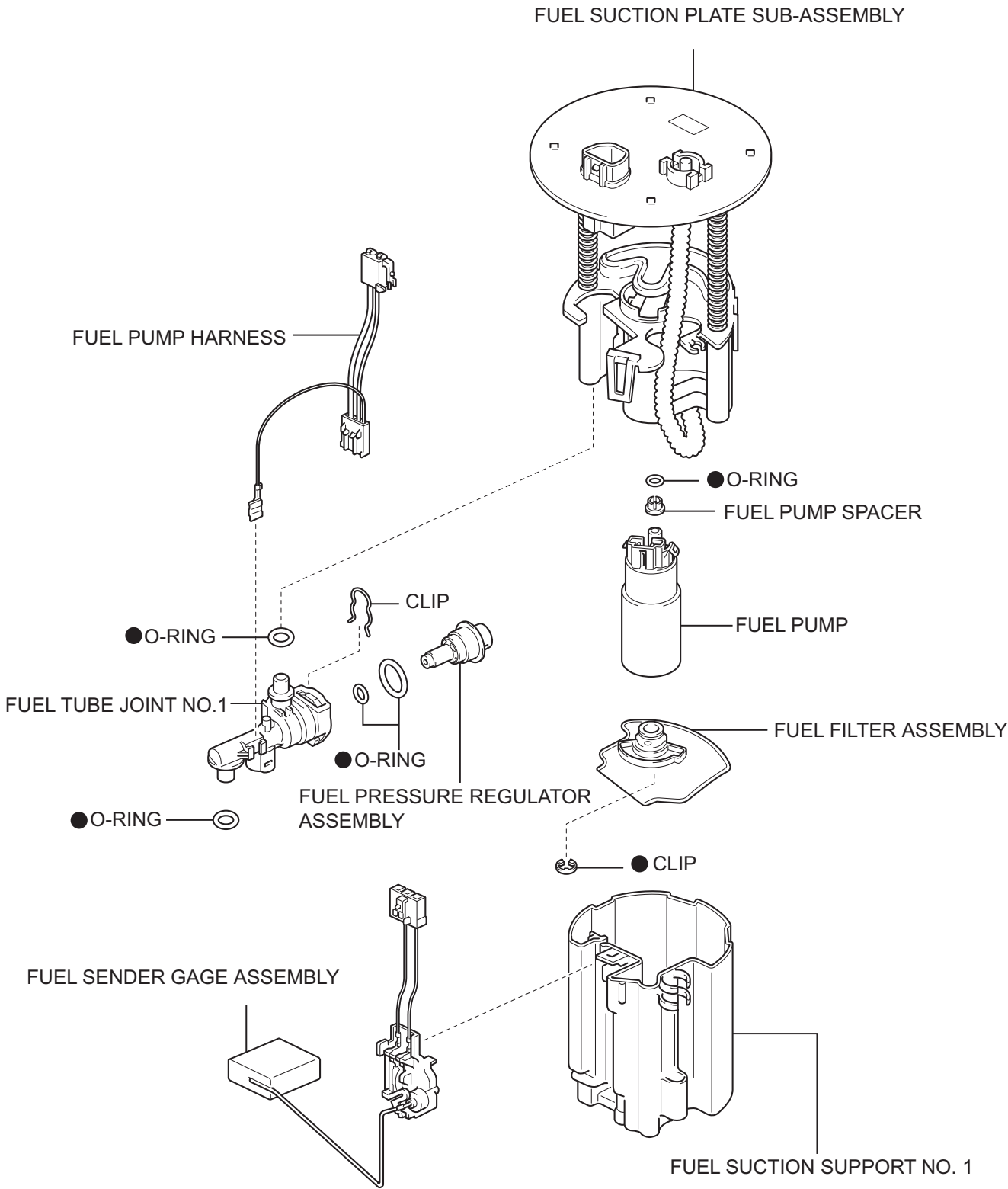


N*m (kgf*cm, ft.*lbf) : Specified torque

FU



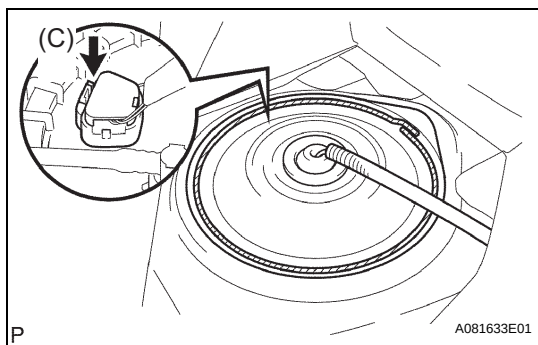
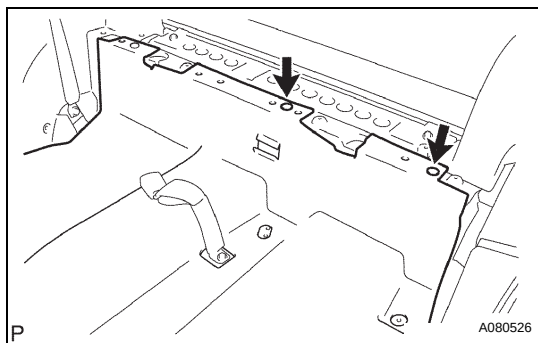
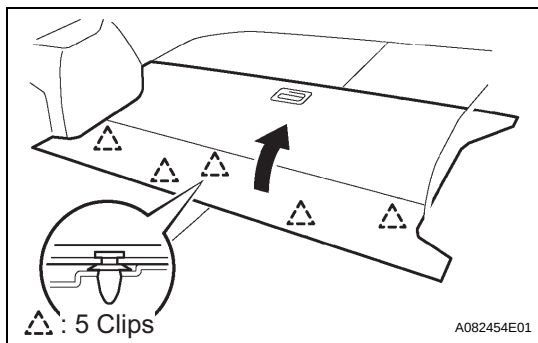
FU

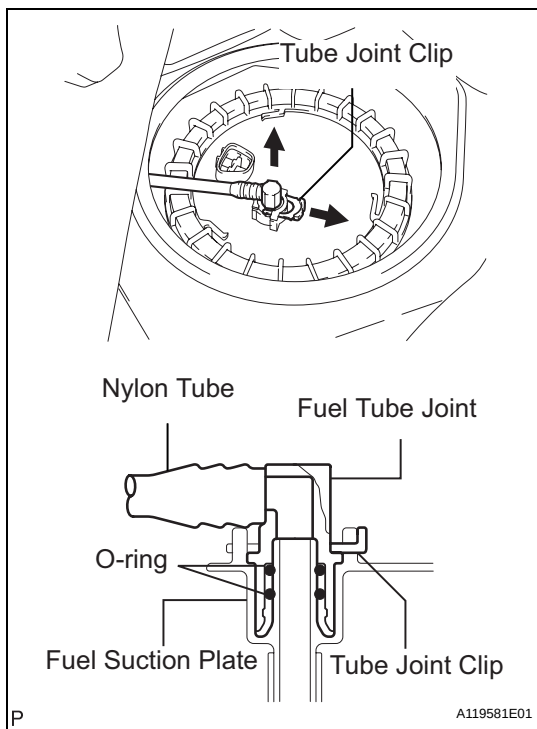


● Non-reusable part

REMOVAL

1. DISCHARGE FUEL SYSTEM PRESSURE
2. REMOVE DECK BOARD SUB-ASSEMBLY
 - (a) Disengage the 5 clips and turn up the front side of the deck board.
3. REMOVE REAR SEAT TRACK BRACKET COVER OUTER (See page [SE-62](#))
4. REMOVE REAR SEAT TRACK BRACKET COVER OUTER (See page [SE-50](#))
5. REMOVE REAR SEAT ASSEMBLY RH (See page [SE-62](#))
6. REMOVE REAR SEAT ASSEMBLY LH (See page [SE-50](#))
7. REMOVE REAR DOOR SCUFF PLATE LH (See page [IR-6](#))
8. REMOVE DECK SIDE TRIM COVER LH (See page [IR-8](#))
9. REMOVE REAR SEAT SIDE COVER LH (See page [IR-9](#))
10. REMOVE REAR FLOOR SERVICE HOLE COVER
 - (a) Using a clip remover, remove the 3 clips and tear off the front floor carpet.
 - (b) Remove the rear floor service hole cover.
 - (c) Disconnect the fuel pump connector.





11. REMOVE SUCTION TUBE SUB-ASSEMBLY

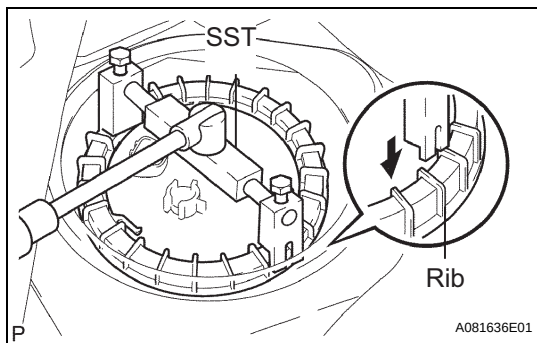
(a) Disconnect the fuel pump tube.

- (1) Remove the tube joint clip, and pull out the fuel pump 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.

FU

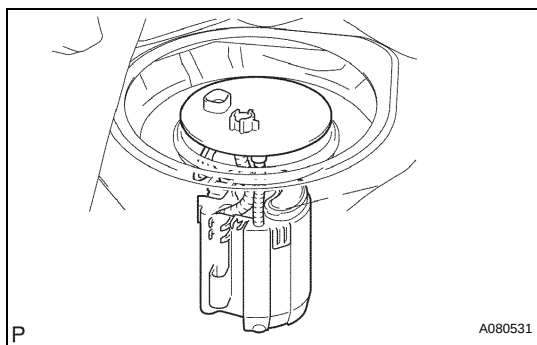


- (b) Using SST, loosen the fuel pump gauge retainer.
SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

HINT:

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

- (c) Remove the fuel pump gauge retainer.

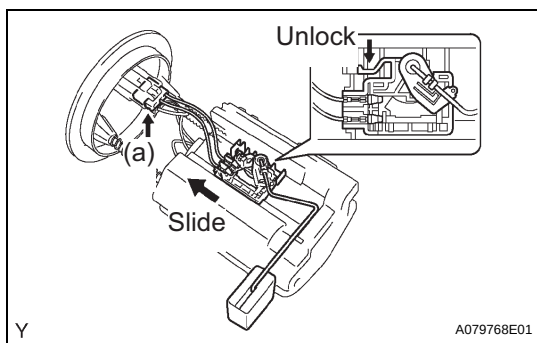


- (d) Remove the fuel suction tube w/pump & gage.

NOTICE:

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

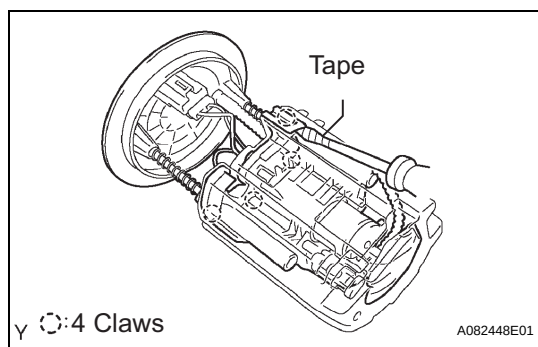
- (e) Remove the gasket from the fuel tank.



12. REMOVE FUEL SENDER GAGE ASSEMBLY

(a) Disconnect the fuel sender gage connector.

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

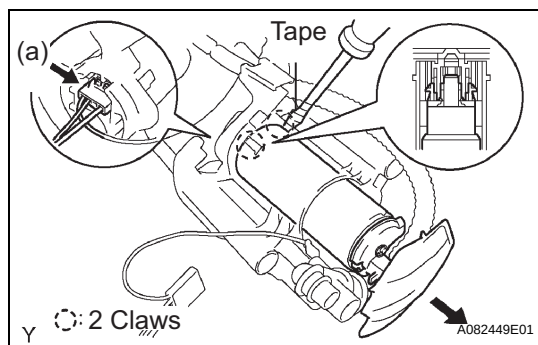


13. REMOVE FUEL SUCTION PLATE SUB-ASSEMBLY

- (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.



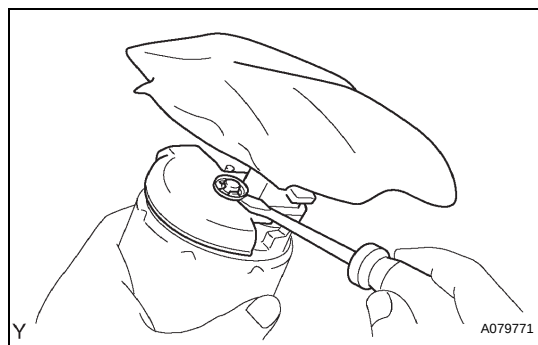
14. REMOVE FUEL PUMP

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

NOTICE:

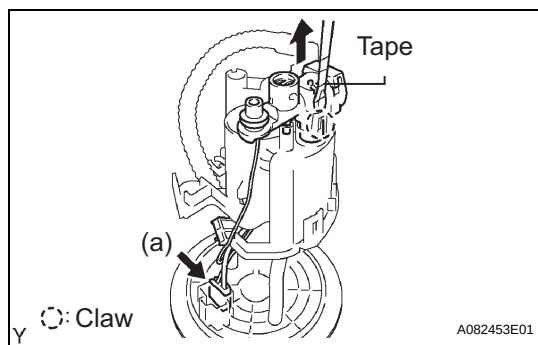
Do not damage the fuel pump and the fuel suction plate.

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



15. REMOVE FUEL PUMP FILTER

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

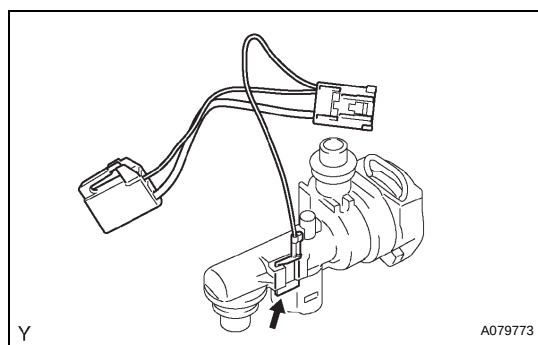


16. REMOVE FUEL TUBE JOINT NO.1

- (a) Disconnect 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.

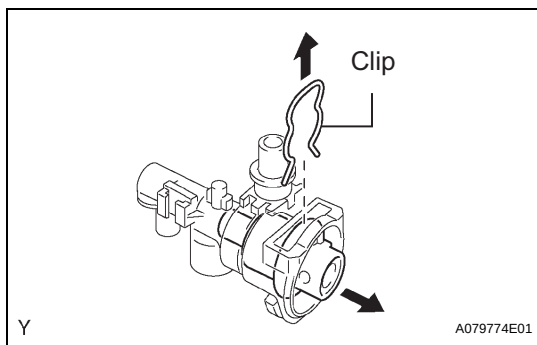
NOTICE:

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



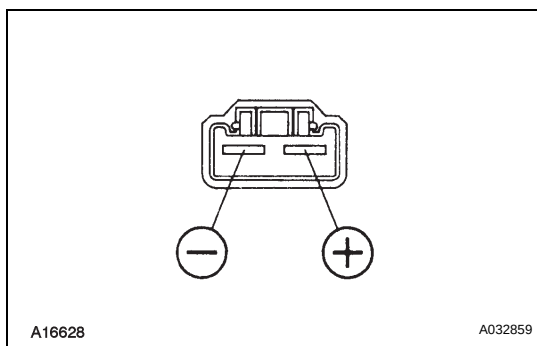
17. REMOVE FUEL PUMP HARNESS

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



18. REMOVE FUEL PRESSURE REGULATOR ASSEMBLY

- Remove the clip.
- Pull out the fuel pressure regulator from the fuel tube joint No. 1.
- Remove the 2 O-rings from the fuel tube joint No. 1.



INSPECTION

1. INSPECT FUEL PUMP

- Inspect fuel pump resistance.
 - Using an ohmmeter, measure the resistance between the terminals.

Resistance:

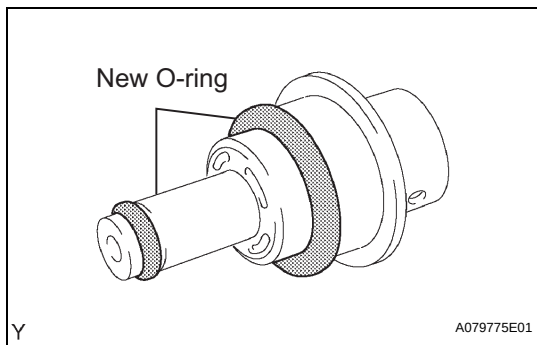
0.2 to 3.0 Ω at 20°C (68°F)

- Inspect fuel pump operation
 - Apply battery voltage to both the 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.

FU



INSTALLATION

1. INSTALL FUEL PRESSURE REGULATOR ASSEMBLY

- Apply a light coat of gasoline or spindle oil to the 2 new O-rings, and install them to the fuel pressure regulator.
- 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.
- Install the clip.

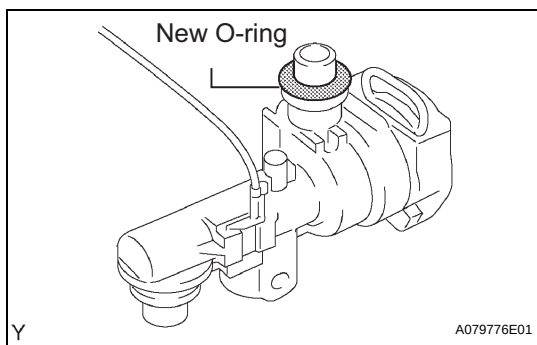
2. INSTALL FUEL PUMP HARNESS

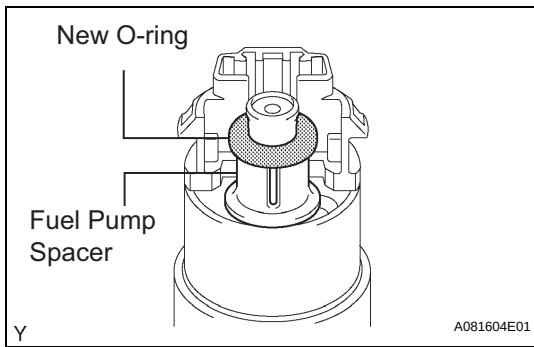
3. INSTALL FUEL TUBE JOINT NO.1

- Apply a light coat of gasoline or spindle oil to a new O-ring, and install it to the fuel tube joint No. 1.
- 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.
- Connect the connector.

4. INSTALL FUEL PUMP FILTER

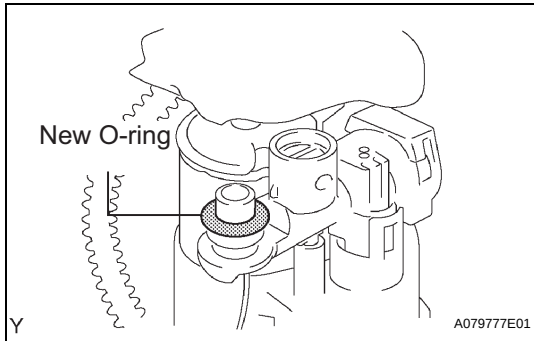
- Install the fuel filter with a new clip.





5. INSTALL FUEL PUMP

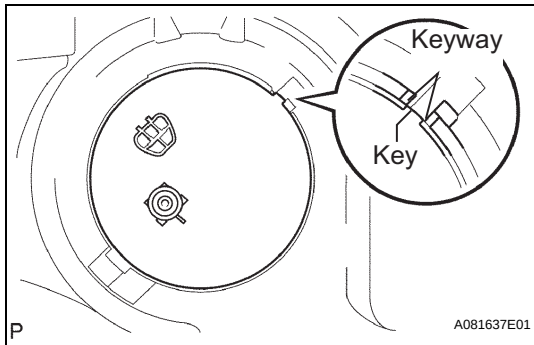
- Install the fuel pump spacer to the fuel pump.
- Apply a light coat of gasoline or spindle oil to a new O-ring, and install it to the fuel pump.
- Apply a light coat of gasoline or spindle oil to the O-ring again, and install the fuel pump to the fuel suction plate.
- Connect the fuel pump connector.



6. INSTALL FUEL SUCTION PLATE SUB-ASSEMBLY

- Apply a light coat of gasoline or spindle oil to a new O-ring, and install it to the fuel tube joint No. 1.
- 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.

7. INSTALL FUEL SENDER GAUGE ASSEMBLY



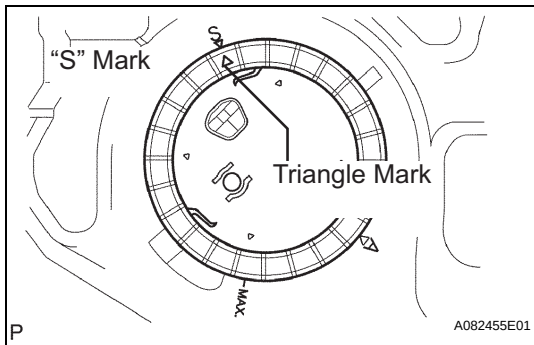
8. INSTALL SUCTION TUBE SUB-ASSEMBLY

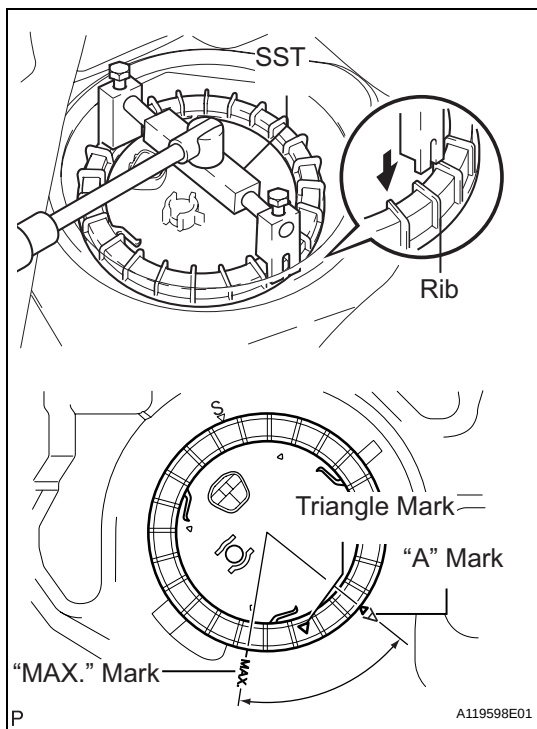
- Install a new gasket to the fuel tank.
- Attach the fuel suction tube w/ pump & gage to the fuel tank.

NOTICE:

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

- Align the keyway of the fuel suction tube support with the key of the fuel suction tube w/ pump & gage.
- Align the triangle mark on new fuel pump gauge retainer with the "S" mark on the fuel tank while pushing down the fuel suction tube w/ pump & gage, attach the fuel pump gauge retainer.





- (e) Rotate the fuel pump gauge retainer by hand, then tighten it one complete turn and half using SST. Triangle mark on the fuel pump gauge retainer must be positioned between "A" and "MAX." indications on the fuel tank.

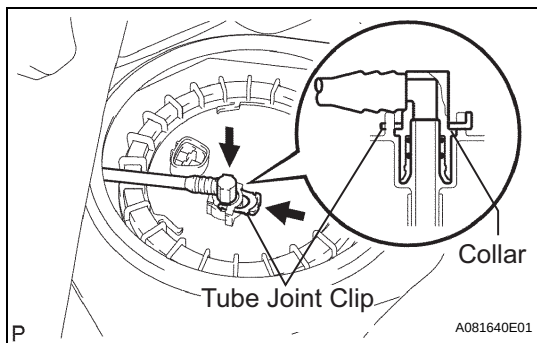
SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

NOTICE:

Do not use other tools in this operation. Damage to the fuel pump gauge retainer and the fuel tank may result.

HINT:

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



- (f) Connect the fuel pump tube.
(1) Install the fuel pump tube and 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.

9. CHECK FOR FUEL LEAKS

HINT:

See page [FU-4](#).

10. INSTALL REAR FLOOR SERVICE HOLE COVER

- Install a new butyl tape to the rear floor service hole cover.
- Connect the fuel pump connector.
- Install the rear floor service hole cover.
- Install the front floor carpet with the 3 clips.

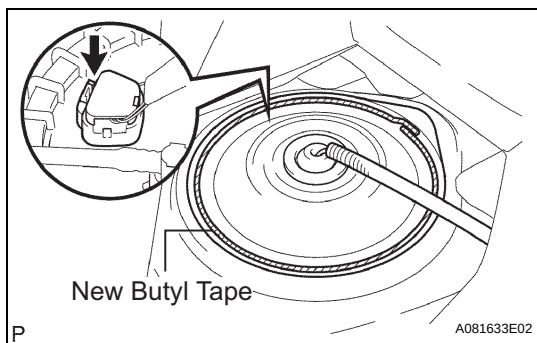
11. INSTALL REAR SEAT SIDE COVER LH

12. INSTALL DECK SIDE TRIM COVER LH

13. INSTALL REAR DOOR SCUFF PLATE LH

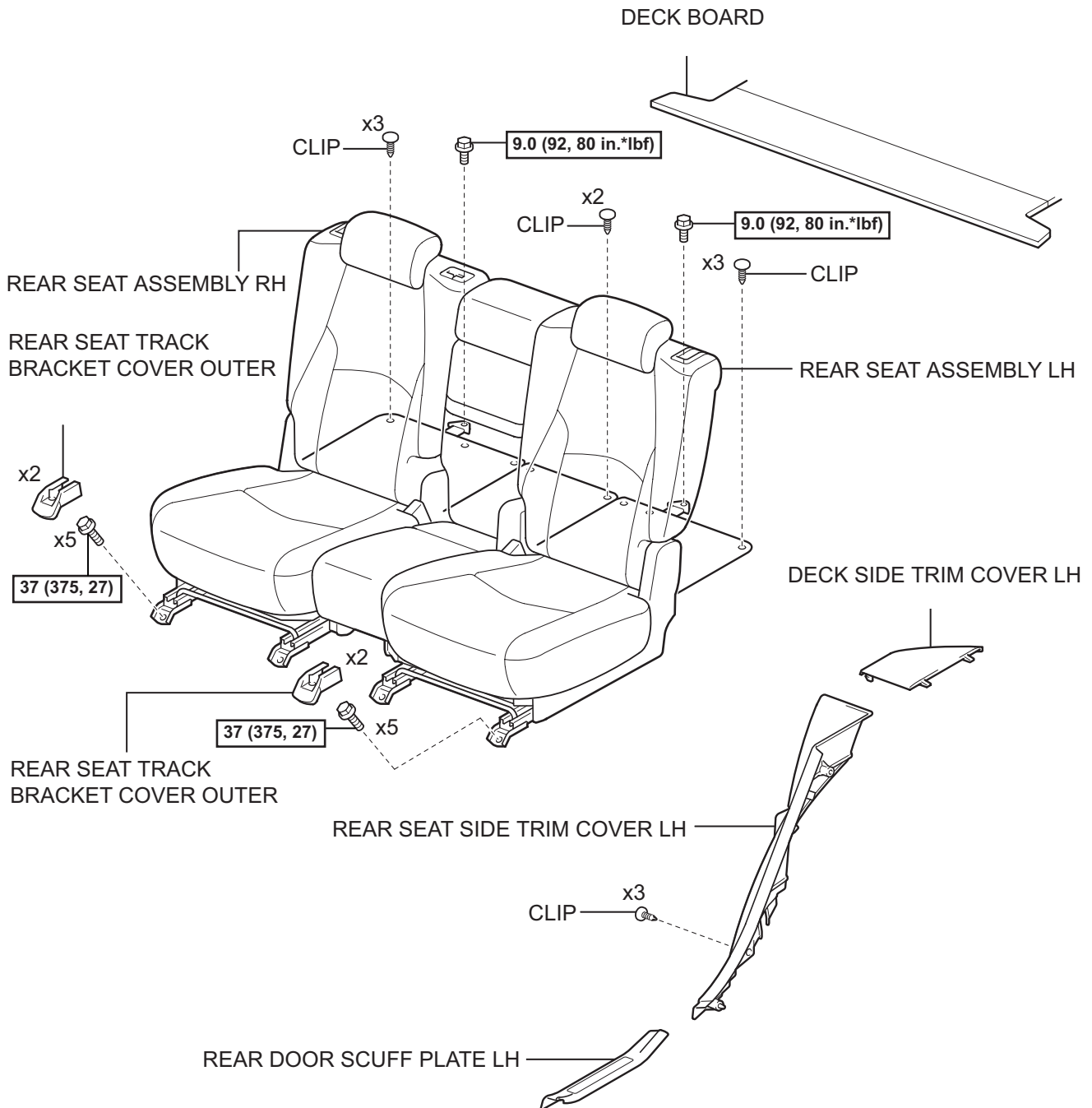
14. INSTALL REAR SEAT ASSEMBLY LH (See page [SE-55](#))

15. INSTALL REAR SEAT ASSEMBLY RH (See page [SE-72](#))



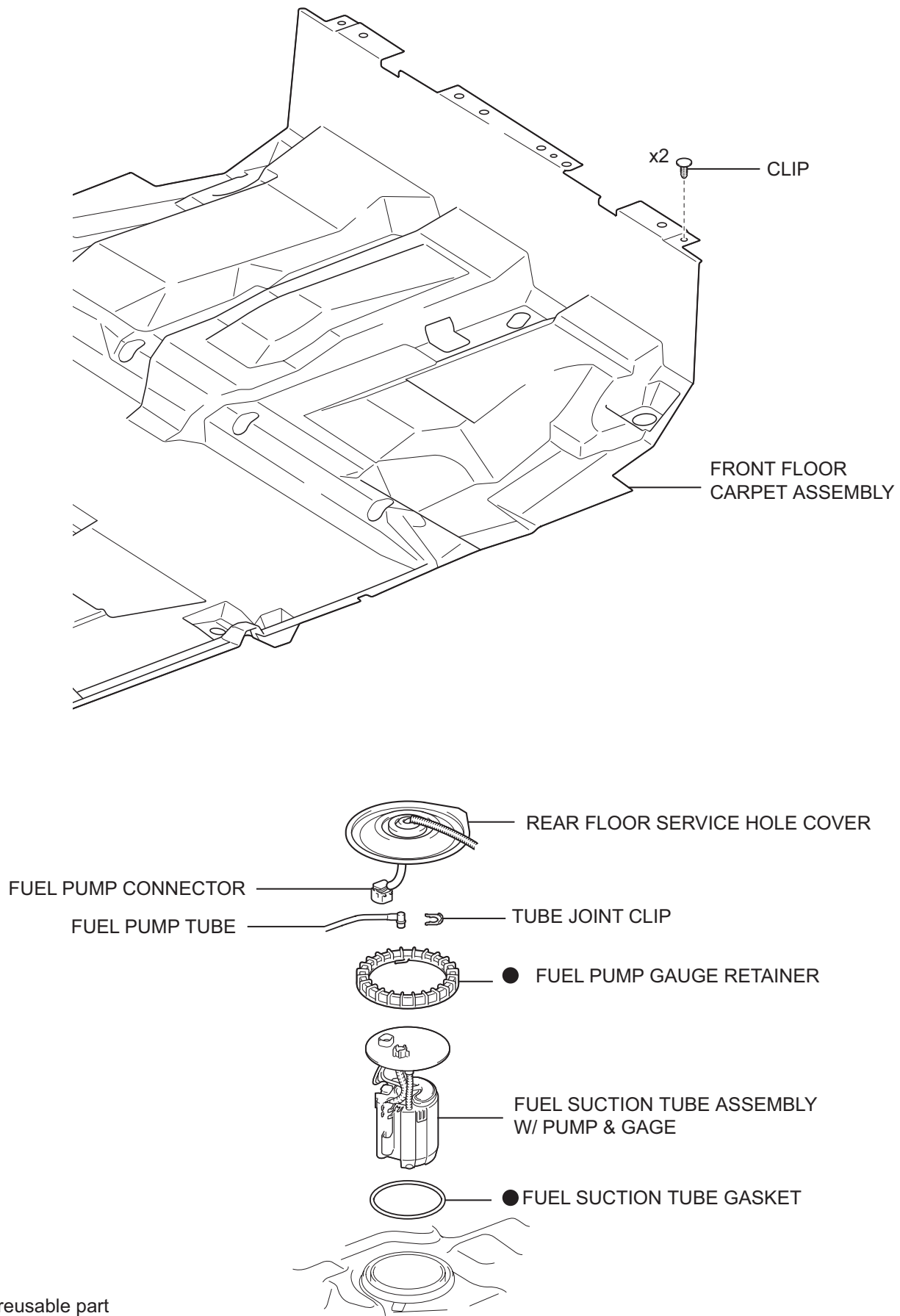
16. INSTALL REAR SEAT TRACK BRACKET COVER
OUTER
17. INSTALL REAR SEAT TRACK BRACKET COVER
OUTER
18. INSTALL DECK BOARD SUB-ASSEMBLY

FUEL TANK COMPONENTS

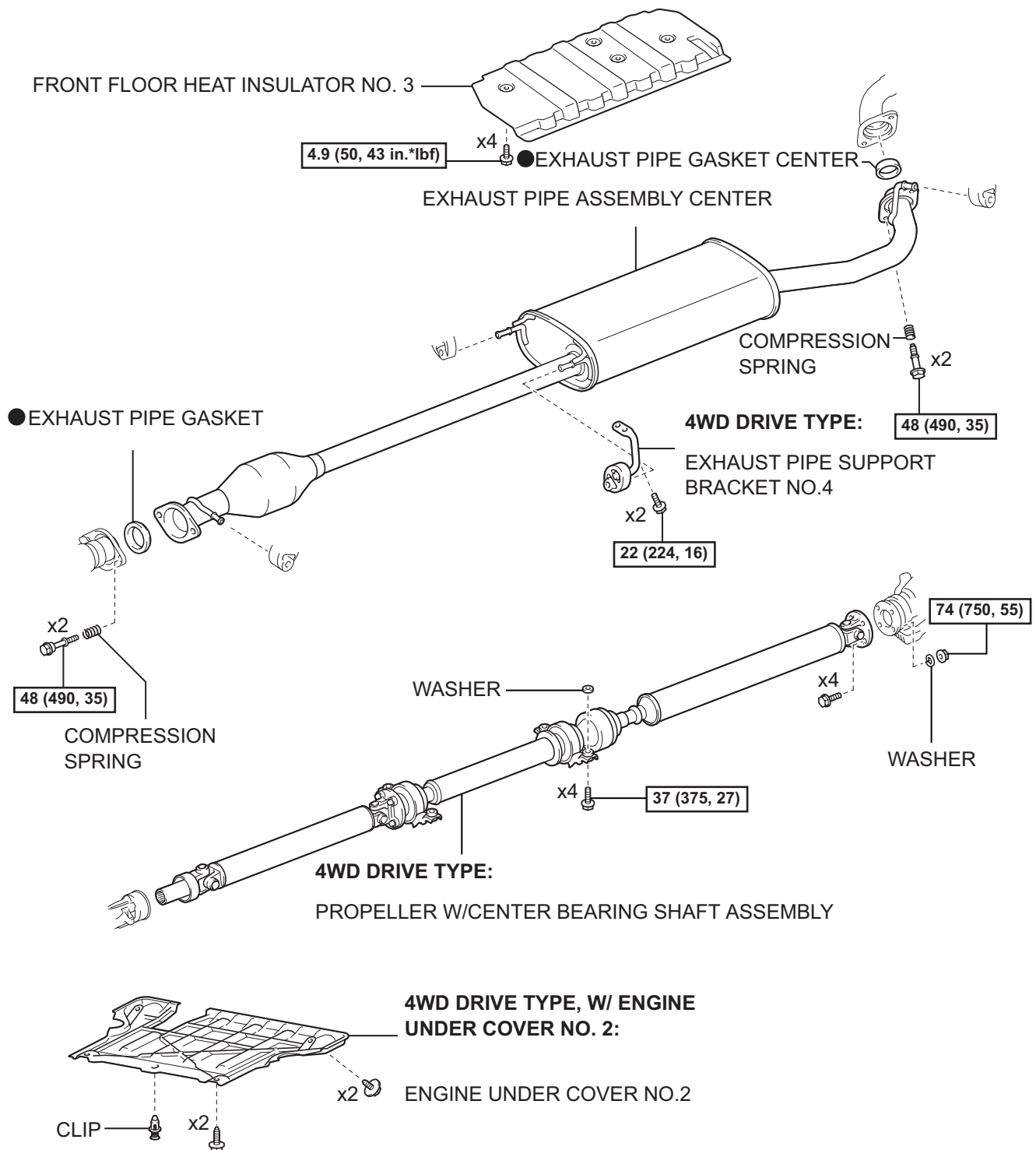


N*m (kgf*cm, ft.*lbf) : Specified torque

FU

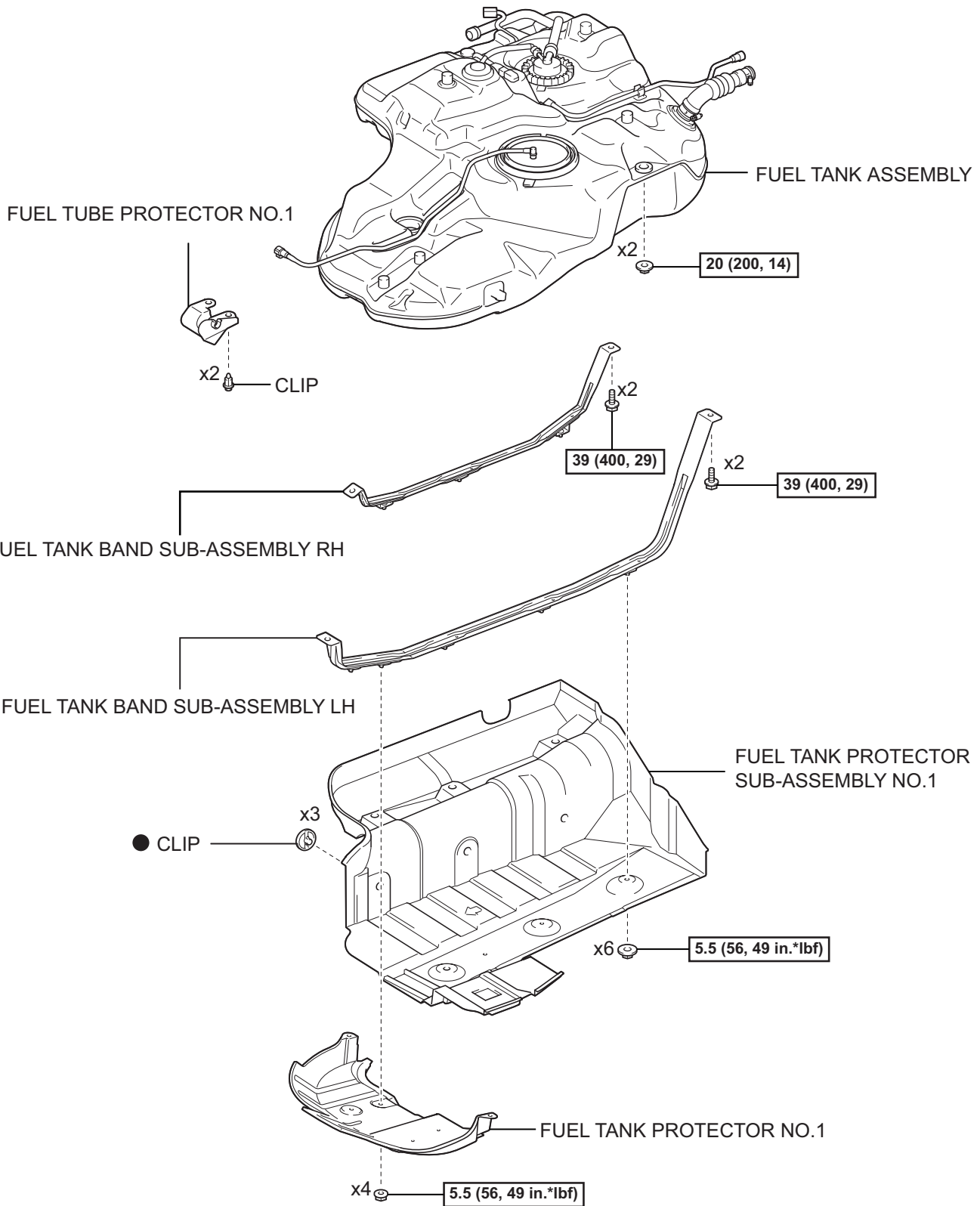


● Non-reusable part



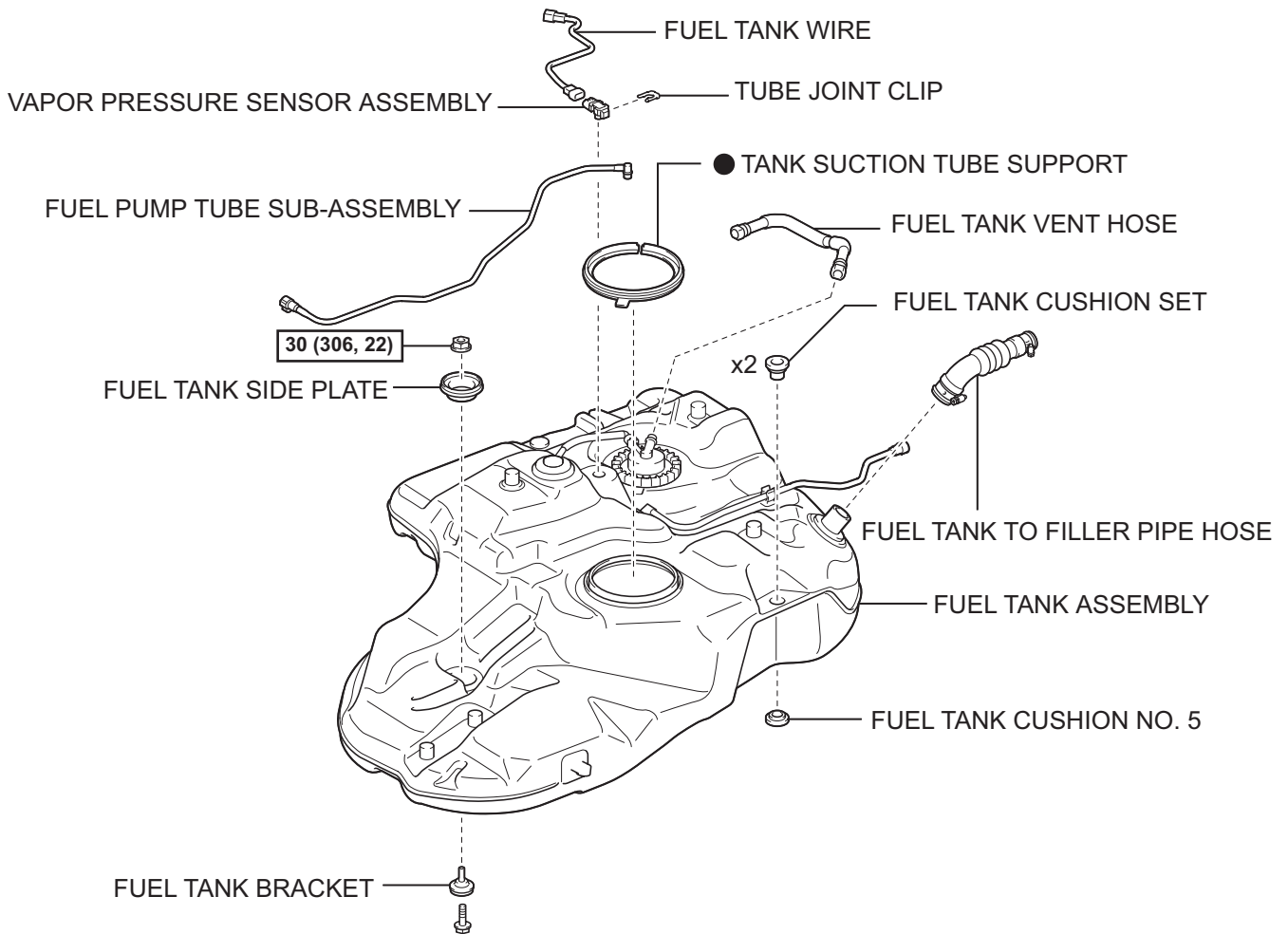
N*m (kgf*cm, ft.*lbf) : Specified torque

● Non-reusable part



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

● Non-reusable part



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

● Non-reusable part

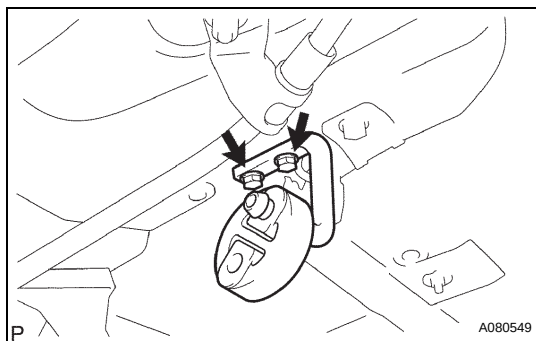
P

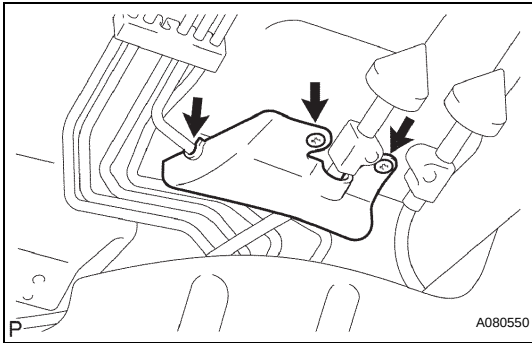
A119000E01

FU

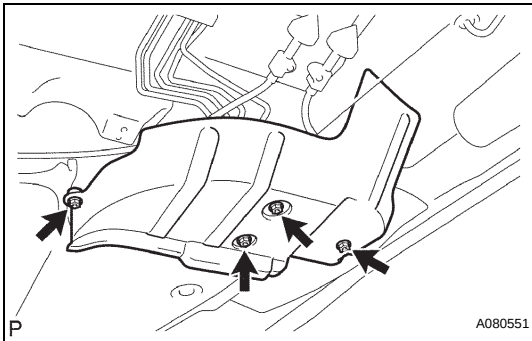
REMOVAL

1. DISCHARGE FUEL SYSTEM PRESSURE
HINT:
See page [FU-1](#).
2. REMOVE DECK BOARD SUB-ASSEMBLY (See page [FU-20](#))
3. REMOVE REAR SEAT TRACK BRACKET COVER OUTER (See page [SE-62](#))
4. REMOVE REAR SEAT TRACK BRACKET COVER OUTER (See page [SE-50](#))
5. REMOVE REAR SEAT ASSEMBLY RH (See page [SE-62](#))
6. REMOVE REAR SEAT ASSEMBLY LH (See page [SE-50](#))
7. REMOVE REAR DOOR SCUFF PLATE LH (See page [IR-6](#))
8. REMOVE DECK SIDE TRIM COVER LH (See page [IR-8](#))
9. REMOVE REAR SEAT SIDE COVER LH (See page [IR-9](#))
10. REMOVE REAR FLOOR SERVICE HOLE COVER (See page [FU-20](#))
11. REMOVE SUCTION TUBE SUB-ASSEMBLY (See page [FU-21](#))
12. DRAIN FUEL
13. REMOVE ENGINE UNDER COVER NO.2 (See page [IG-8](#))
14. REMOVE PROPELLER W/CENTER BEARING SHAFT ASSEMBLY (See page [PR-3](#))
15. REMOVE EXHAUST PIPE ASSEMBLY CENTER (See page [EC-11](#))
16. REMOVE FRONT FLOOR HEAT INSULATOR NO.3 (See page [EC-11](#))
17. REMOVE EXHAUST PIPE SUPPORT BRACKET NO.4
 - (a) 4WD type
 - (1) Remove the 2 bolts, and then remove the exhaust pipe support bracket No. 4.

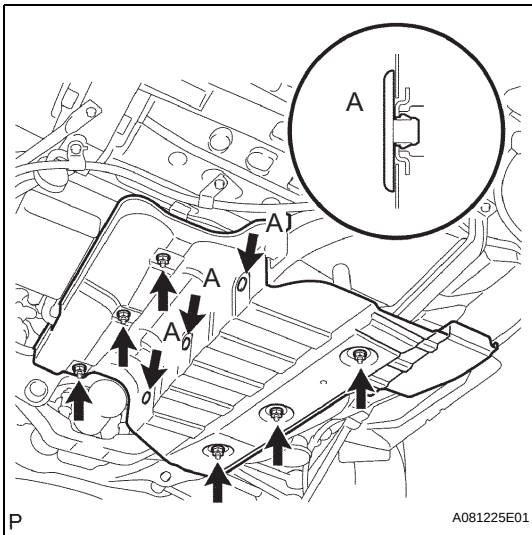


**18. REMOVE FUEL TUBE PROTECTOR NO.1**

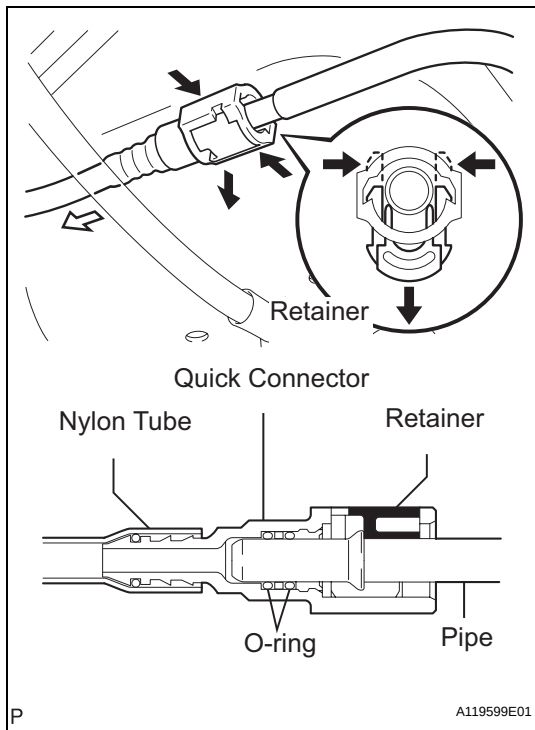
- (a) Remove the 2 clips and unfasten the claw, and then remove the fuel tube protector No. 4.

**19. REMOVE FUEL TANK PROTECTOR NO.1**

- (a) Remove the 4 nuts, and then remove the fuel tank protector No. 1.

**20. REMOVE FUEL TANK PROTECTOR SUB-ASSEMBLY NO.1**

- (a) Remove the 3 clips (A) and 6 nuts, and then remove the fuel tank protector No. 1.



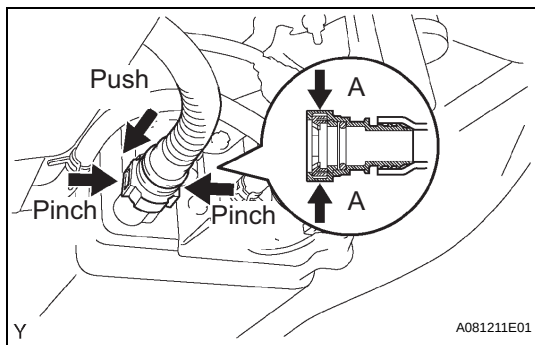
21. REMOVE FUEL TANK ASSEMBLY

(a) Disconnect the fuel pump tube.

- (1) Pinch the projection of the retainer to remove the lock claws and pull down it as show in the illustration.
- (2) Pull out the fuel pump tube.

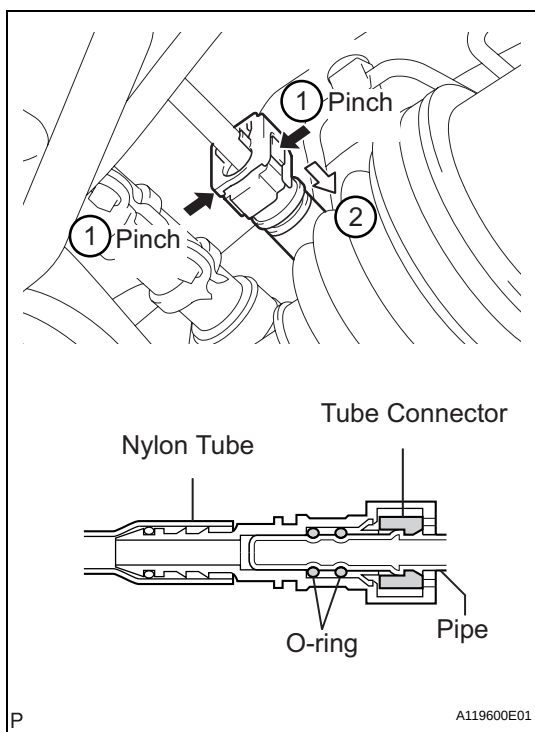
NOTICE:

- 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 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) 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.

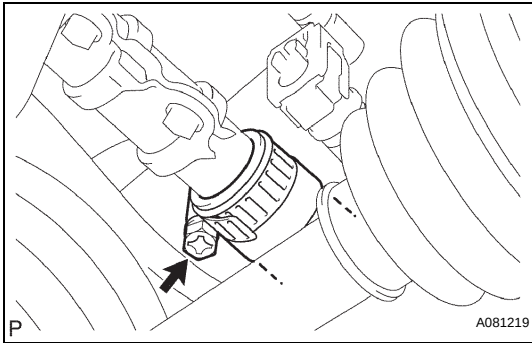


(c) Disconnect the fuel tank breather tube No. 3.

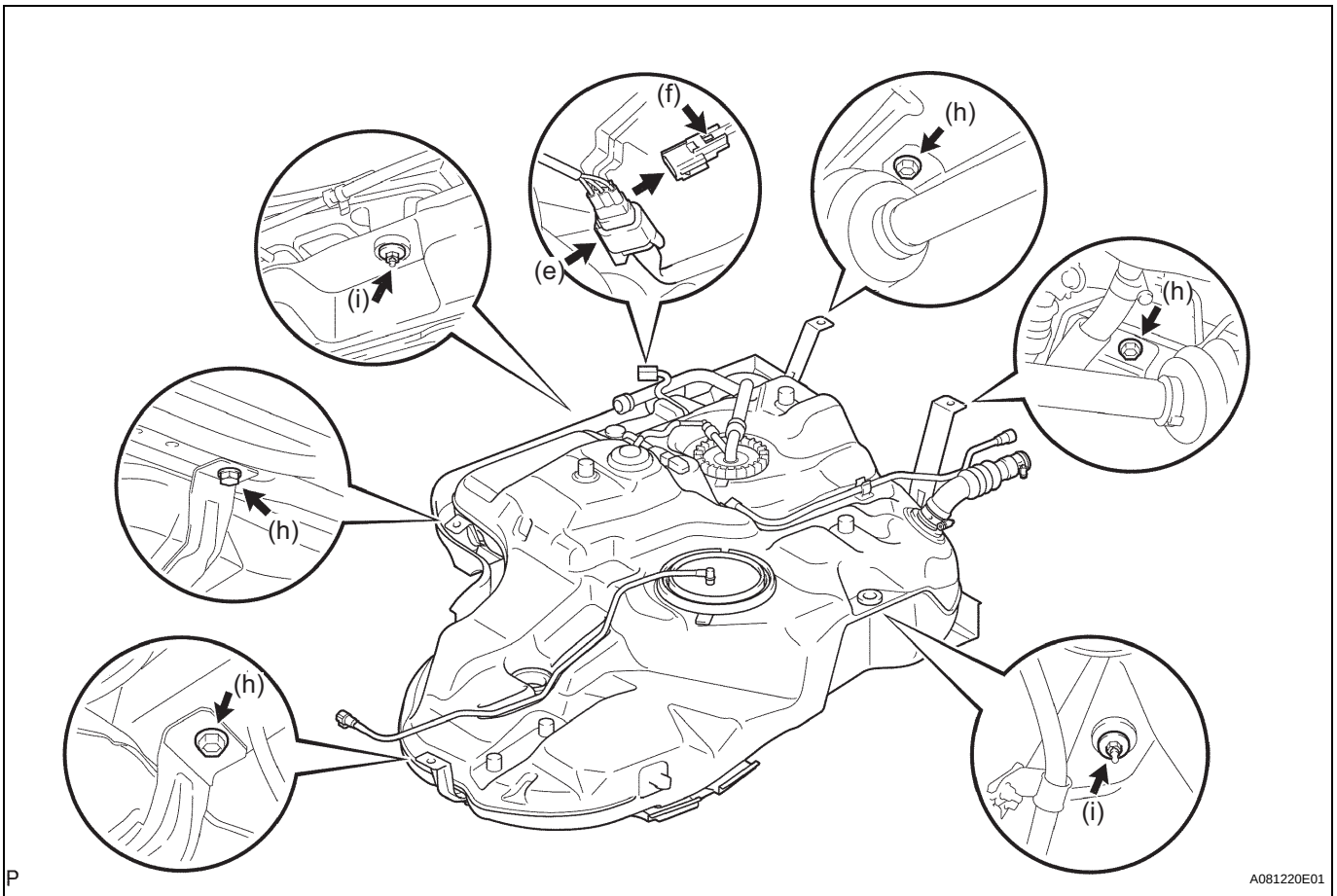
- (1) Pinch the tube connector and then pull out the fuel tank breather tube No. 3.

NOTICE:

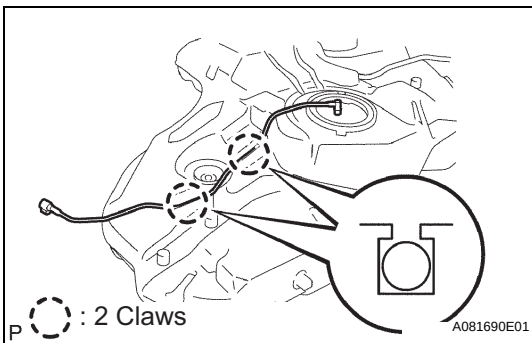
- Check if there is any dirt or mud around the connector before this operation and remove the dirt as necessary.
- Be careful of mud because the quick connector has an O-ring which seals the pipe and connector that can be contaminated.
- Do not use any tool in this operation.
- Do not bend or twist the 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.



- (d) Loosen the hose clamp bolt and disconnect the fuel tank to filler pipe hose.
- (e) Disconnect the fuel tank wire connector.
- (f) Remove the connector clamp.
- (g) Set up a transmission jack under the fuel tank.
- (h) Remove the 4 bolts, and then remove the 2 fuel tank bands.
- (i) Remove the 2 nuts.
- (j) Operating the transmission jack and remove the fuel tank.

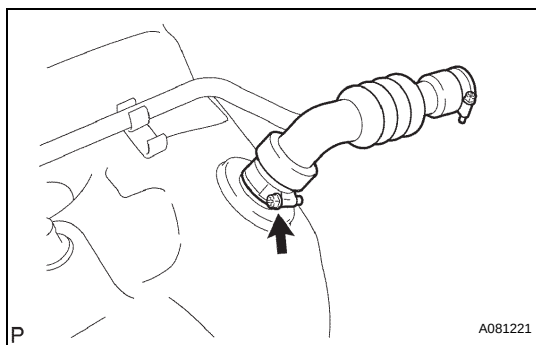


FU



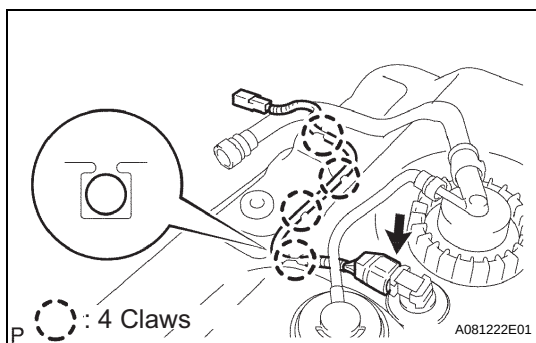
22. REMOVE FUEL PUMP TUBE SUB-ASSEMBLY

- (a) Unfasten the 2 claws, and then remove the fuel pump tube.



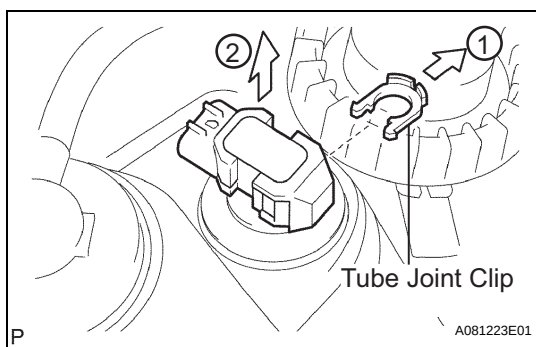
23. REMOVE FUEL TANK TO FILLER PIPE HOSE

- Loosen the hose clamp bolt, and then remove the fuel tank to filler pipe hose.



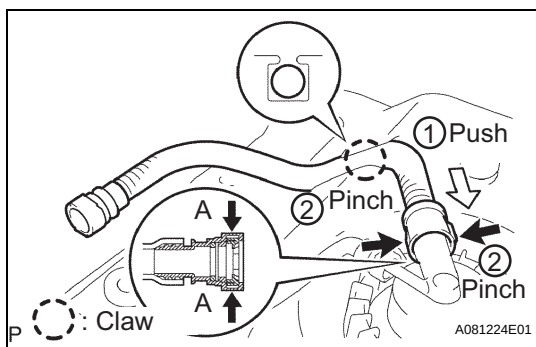
24. REMOVE FUEL TANK WIRE

- Disconnect the vapor pressure sensor connector.
- Unfasten the 4 claws, and then remove the fuel tank wire.



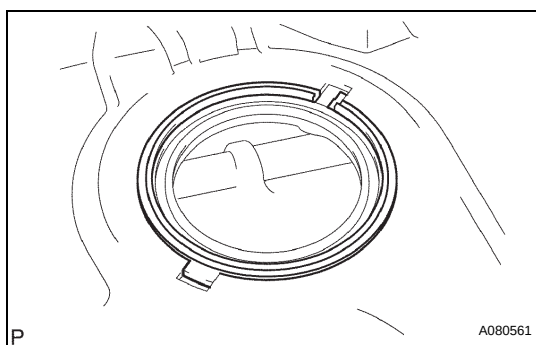
25. REMOVE VAPOR PRESSURE SENSOR ASSEMBLY

- Remove the tube joint clip.
- Pull out the vapor pressure sensor.



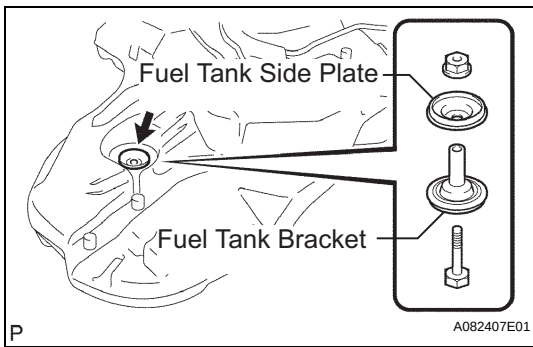
26. REMOVE FUEL TANK VENT HOSE

- Deeply push the connector to release the locking tab.
- Pinch portion A.
- Pull out the connector.
- Unfasten the claw, and then remove the fuel tank vent hose.

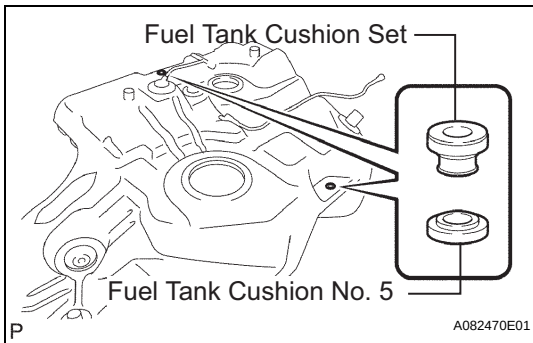


27. REMOVE TANK SUCTION TUBE SUPPORT

- Remove the tank suction tube support from the fuel tank.

**28. REMOVE FUEL TANK SIDE PLATE**

- (a) Remove the bolt and nut, and then remove the fuel tank side plate and the fuel tank bracket.

**29. REMOVE FUEL TANK CUSHION SET**

- (a) Remove the fuel tank cushion set and fuel tank cushion No. 5.

INSTALLATION

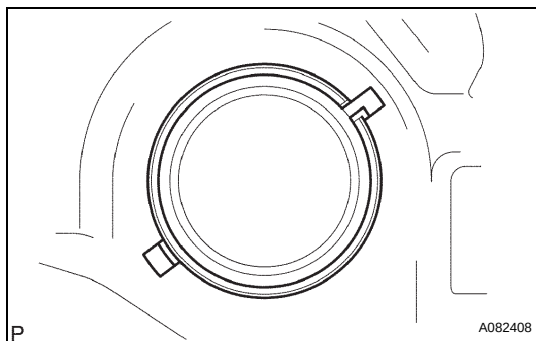
1. INSTALL FUEL TANK CUSHION SET

2. INSTALL FUEL TANK SIDE PLATE

Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)

3. INSTALL TANK SUCTION TUBE SUPPORT

- (a) Install a new tank suction tube support as shown in the illustration.



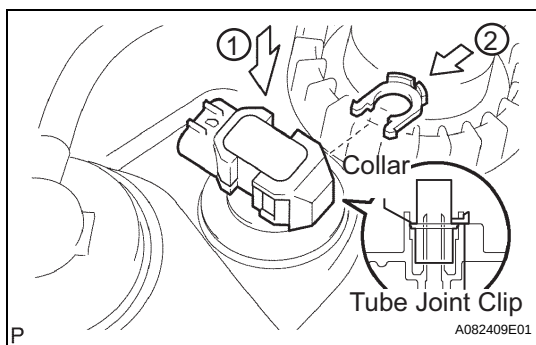
4. INSTALL FUEL TANK VENT HOSE

5. INSTALL VAPOR PRESSURE SENSOR ASSEMBLY

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

NOTICE:

- Check that there is no scratch or foreign objects on the connecting parts.
- Check that the fuel tube joint 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 joint is securely connected by pulling it.



6. INSTALL FUEL TANK WIRE

7. INSTALL FUEL TANK TO FILLER PIPE HOSE

8. INSTALL FUEL PUMP TUBE SUB-ASSEMBLY

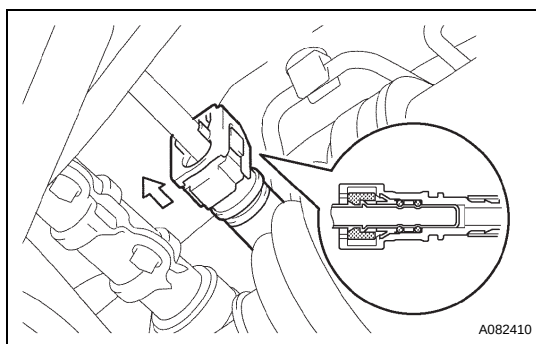
9. INSTALL FUEL TANK ASSEMBLY

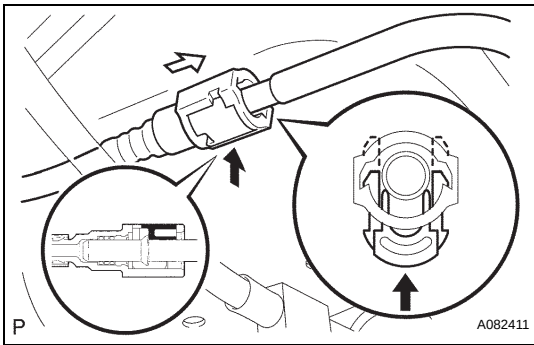
- (a) Set up the fuel tank to the transmission jack.
 (b) Operating the transmission jack and the install the fuel tank.
 (c) Tighten the 2 nuts.
Torque: 20 N*m (200 kgf*cm, 14 ft.*lbf)
 (d) Install the 2 fuel tank bands with the 4 bolts.
Torque: 39 N*m (400 kgf*cm, 29 ft.*lbf)
 (e) Install the connector clamp.
 (f) Connect the fuel tank wire connector.
 (g) Connect the fuel tank to filler pipe hose.
 (h) Connect the fuel tank breather tube No. 3.
 (1) Push the quick connector to the pipe until it makes "click" sound.

NOTICE:

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

- (i) Connect the fuel tank vent hose.





- (j) Connect the fuel pump tube.
 (1) Push quick connector and push up retainer to the claws lock.

NOTICE:

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

10. INSTALL FUEL TANK PROTECTOR SUB-ASSEMBLY NO.1

- (a) Install the fuel tank protector No. 1 with the 6 nuts.
Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)
 (b) Install 3 new clips.

11. INSTALL FUEL TANK PROTECTOR NO.1
Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)**12. INSTALL FUEL TUBE PROTECTOR NO.1****13. INSTALL EXHAUST PIPE SUPPORT BRACKET NO.4**
Torque: 22 N*m (224 kgf*cm, 16 ft.*lbf)**14. INSTALL FRONT FLOOR HEAT INSULATOR NO.3**
 (See page [EC-14](#))**15. INSTALL EXHAUST PIPE ASSEMBLY CENTER** (See page [EC-14](#))**16. INSTALL FUEL****17. INSTALL SUCTION TUBE SUB-ASSEMBLY** (See page [FU-24](#))**18. CHECK FOR FUEL LEAKS****HINT:**See page [FU-4](#).**19. CHECK FOR EXHAUST GAS LEAKS****20. INSTALL REAR FLOOR SERVICE HOLE COVER** (See page [FU-25](#))**21. INSTALL REAR SEAT SIDE COVER LH****22. INSTALL DECK SIDE TRIM COVER LH****23. INSTALL REAR DOOR SCUFF PLATE LH****24. INSTALL REAR SEAT ASSEMBLY LH** (See page [SE-55](#))**25. INSTALL REAR SEAT ASSEMBLY RH** (See page [SE-72](#))**26. INSTALL REAR SEAT TRACK BRACKET COVER OUTER****27. INSTALL REAR SEAT TRACK BRACKET COVER OUTER****28. INSTALL DECK BOARD SUB-ASSEMBLY**

29. INSTALL PROPELLER W/CENTER BEARING SHAFT ASSEMBLY (See page [PR-9](#))
30. FULLY TIGHTEN PROPELLER W/CENTER BEARING SHAFT ASSEMBLY (See page [PR-10](#))
31. ADD TRANSFER OIL
32. INSPECT TRANSFER OIL
33. INSTALL ENGINE UNDER COVER ASSEMBLY