

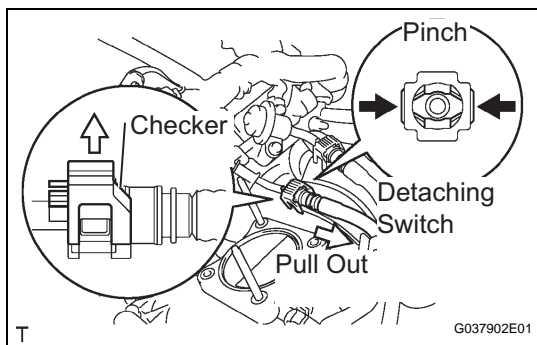
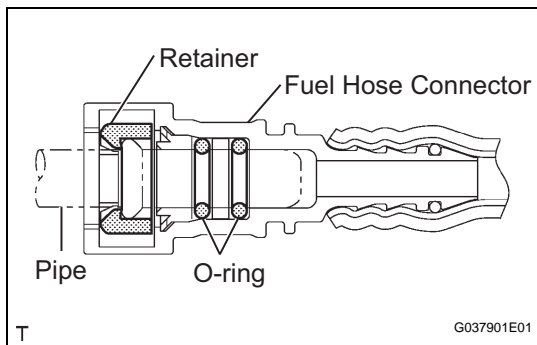
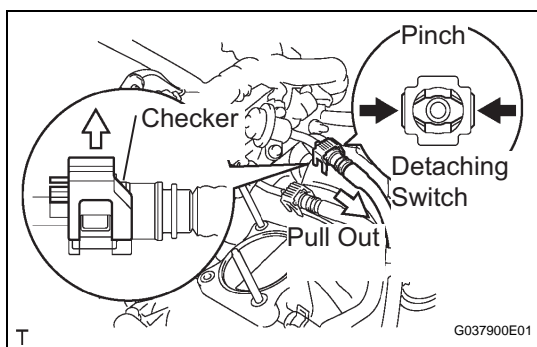
## REMOVAL

1. **DISCHARGE FUEL SYSTEM PRESSURE**  
(See page [FU-1](#))
2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
3. **REMOVE ENGINE UNDER COVER SUB-ASSEMBLY NO.1**
4. **DRAIN ENGINE COOLANT** (See page [CO-3](#))
5. **REMOVE INTAKE AIR CONNECTOR** (See page [ES-452](#))
6. **REMOVE THROTTLE WITH MOTOR BODY ASSEMBLY** (See page [ES-453](#))
7. **DISCONNECT FUEL HOSE**

- (a) Pull the checker of the fuel hose upward.
- (b) Pinch the detaching switch of the fuel hose connector and pull out the fuel hose.

**NOTICE:**

- Remove any dirt and foreign objects on the fuel tube connector before performing this work.
- Do not allow any scratches or foreign objects on the parts when disconnecting, as the fuel tube connector has the O-ring that seals the pipe.
- Perform this work by hand. Do not use any tools.
- Do not forcibly bend, twist or turn the nylon tube.
- Protect the disconnected part by covering it with a vinyl bag after disconnecting the fuel hose.
- If the fuel tube connector and pipe are stuck, push and pull to release them.



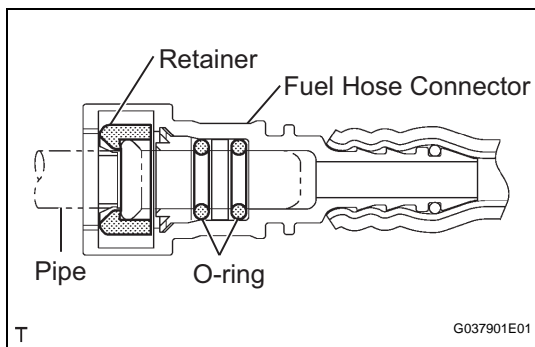
### 8. DISCONNECT NO. 2 FUEL HOSE

- (a) Pull the checker of the fuel hose upward.
- (b) Pinch the detaching switch of the fuel hose connector and pull out the fuel hose.

**NOTICE:**

- Remove any dirt and foreign objects on the fuel tube connector before performing this work.
- Do not allow any scratches or foreign objects on the parts when disconnecting, as the fuel tube connector has the O-ring that seals the pipe.

**FU**

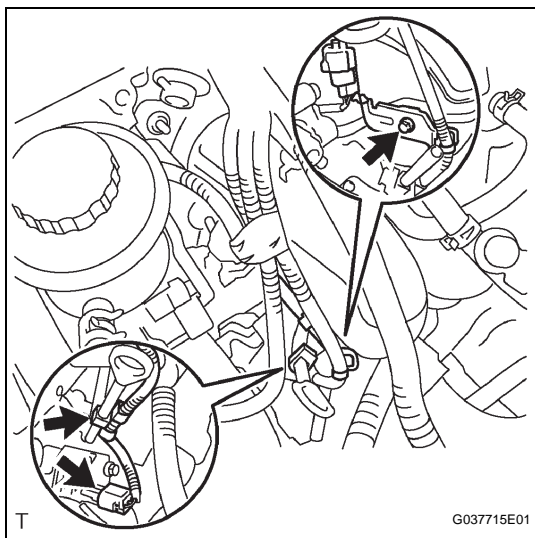
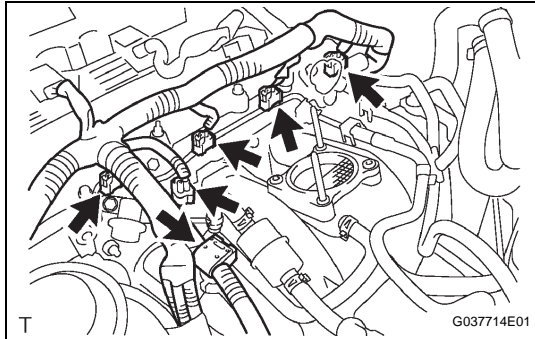


- Perform this work by hand. Do not use any tools.
- Do not forcibly bend, twist or turn the nylon tube.
- Protect the disconnected part by covering it with a vinyl bag after disconnecting the fuel hose.
- If the fuel tube connector and pipe are stuck, push and pull to release them.

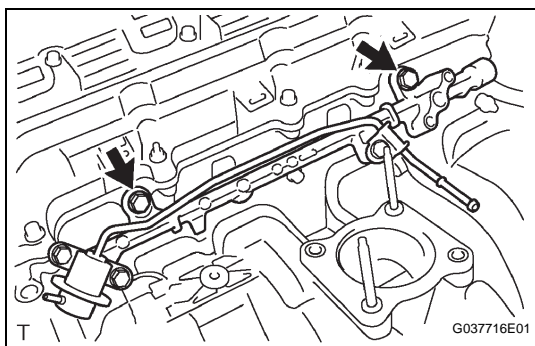
**9. REMOVE FUEL PRESSURE PULSATION DAMPER ASSEMBLY (See page [FU-21](#))**

**10. REMOVE FUEL DELIVERY PIPE WITH INJECTOR**

- Disconnect the 4 injector connectors.
- Disconnect the VSV connector.
- Disconnect the engine wire harness clamp.



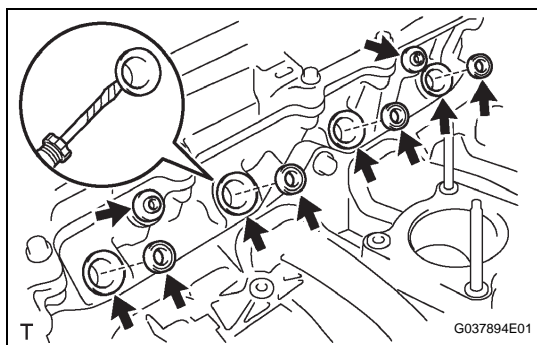
- Disconnect the compressor magnetic clutch connector. (with AIR CONDITIONING)
- Disconnect the wire harness clamp.
- Remove the bolt, then remove the harness clamp bracket.



- Remove the 2 bolts, then remove the fuel delivery pipe together with the fuel injectors.

**NOTICE:**

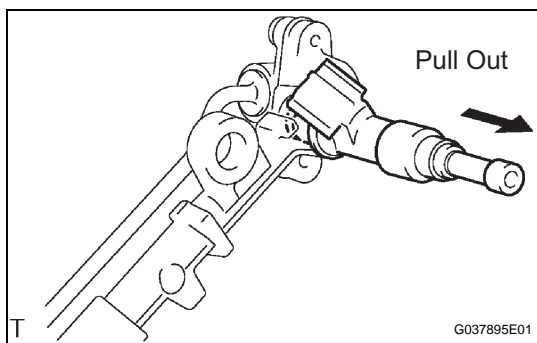
**Be careful not to drop the fuel injectors when removing the fuel delivery pipe.**



- (h) Remove the 2 delivery pipe No. 1 spacers.
- (i) Remove the 4 injector vibration insulators.
- (j) Using a screwdriver, remove the 4 spacers.

## 11. REMOVE FUEL INJECTOR ASSEMBLY

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

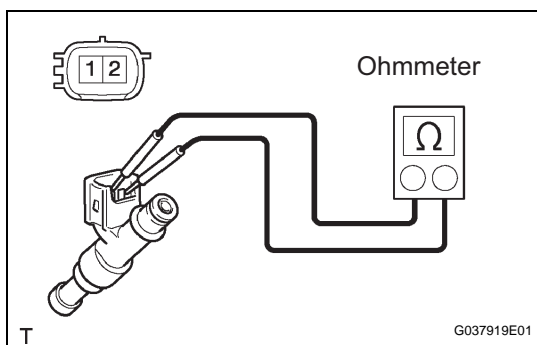


## INSPECTION

### 1. INSPECT FUEL INJECTOR ASSEMBLY

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

**Resistance:**  
**11.6 to 12.4  $\Omega$  at 20°C (68°F)**  
 If the result is not as specified, replace the fuel injector.



- (b) Check the injection volume.

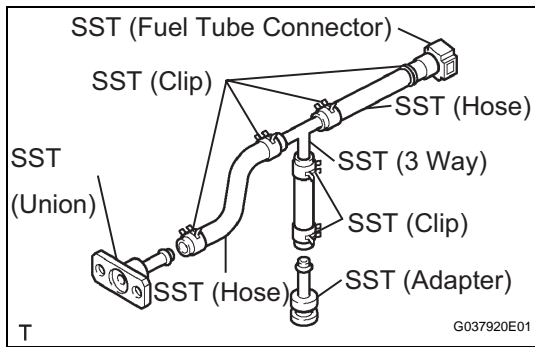
#### CAUTION:

**This test involves high-pressure fuel and electricity, therefore, safety precautions should be taken. Perform this test in a safe area and avoid any sparks and flames. Do not smoke.**

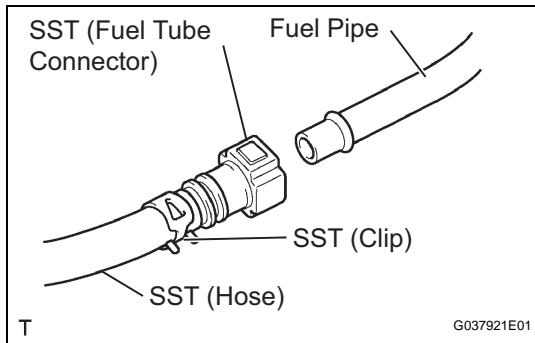
- (1) Discharge the fuel system pressure (see page [FU-1](#)).
- (2) Remove the fuel hose from the fuel pressure pulsation damper (see page [FU-21](#)).
- (3) Remove the fuel hose from the fuel pipe (see page [FU-1](#)).
- (4) Separate the pressure regulator (see page [FU-19](#)).

#### NOTICE:

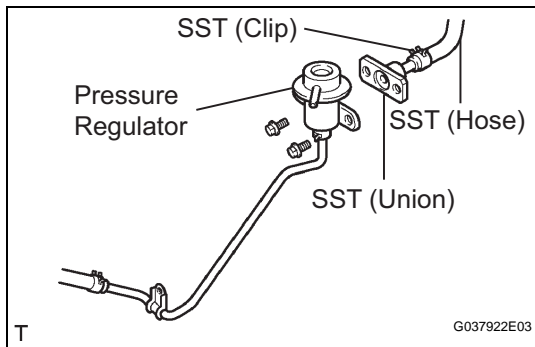
**Do not separate the fuel hose No.2.**



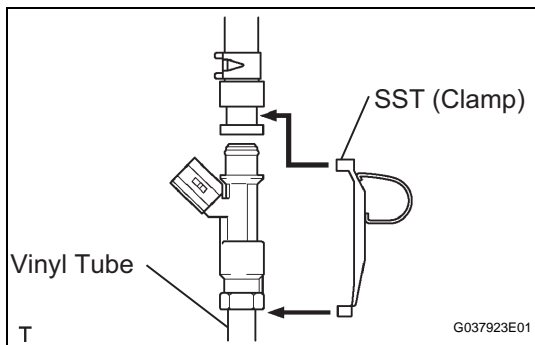
- (5) Assemble SST as shown in the illustration.  
**SST 09268-41048 (09268-41091, 09268-41110, 09268-41120, 09268-41500, 95336-08070, 90467-13001)**



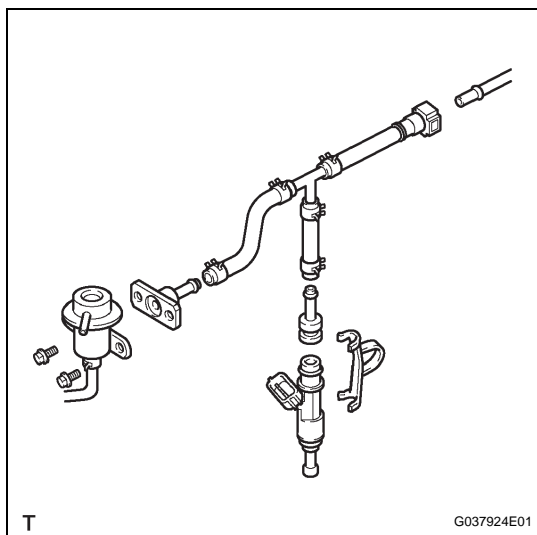
- (6) Connect SST to the fuel pipe.  
**SST 09268-41048 (09268-41500, 90467-13001)**



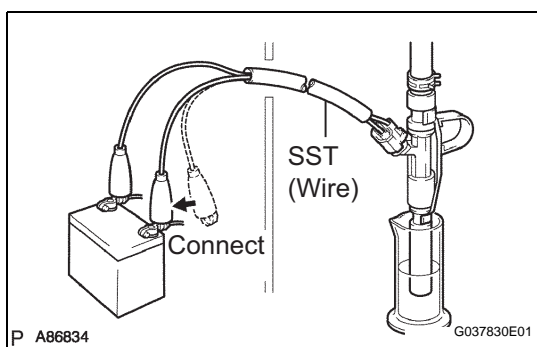
- (7) Install the pressure regulator onto SST (union) with the 2 bolts.  
**Torque: 8.5 N\*m (87 kgf\*cm, 75 in.\*lbf)**  
**SST 09268-41048 (09268-41091)**  
**NOTICE:**  
**Make sure that the O-ring is installed onto the pressure regulator.**



- (8) Install the O-ring onto the injector.  
 (9) Assemble SST as shown in the illustration.  
**SST 09268-41048 (09268-41110, 09268-41310)**  
 (10) Put the injector into a graduated cylinder.  
**CAUTION:**  
**Install a suitable vinyl tube onto the injector to contain any gasoline spray.**



- (11) Make sure that SST is installed as shown in the illustration.
- (12) Operate the fuel pump (see page [FU-6](#)).



- (13) 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 09842-30080**

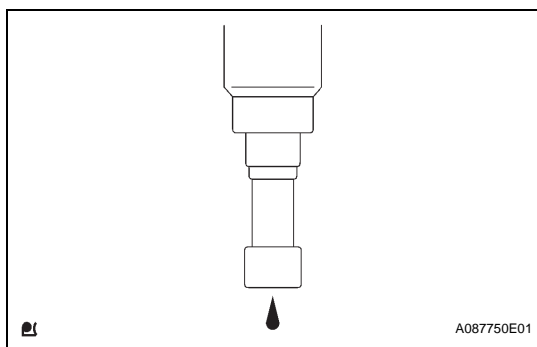
**Volume:**

**71 to 86 cm<sup>3</sup> (4.3 to 5.2 cu in.) per 15 seconds**

**Difference between each injector:**

**15 cm<sup>3</sup> (0.9 cu in.) or less**

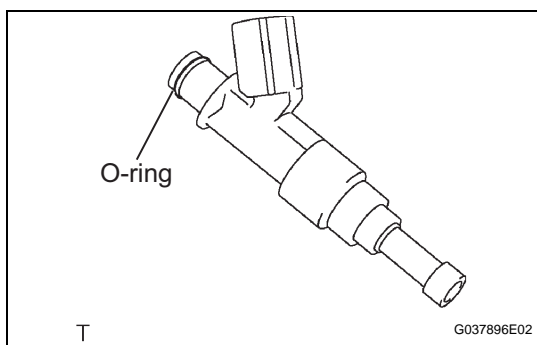
If the injection volume is not as specified, replace the injector.



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

**Fuel drop:**

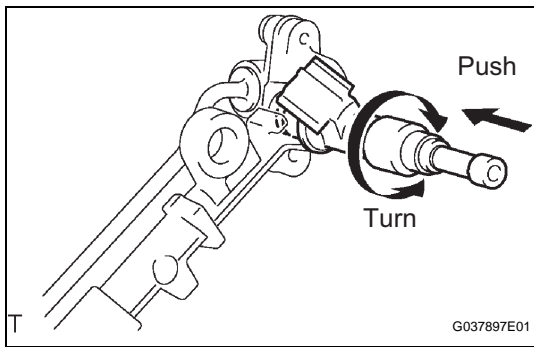
**1 drop or less in 12 minutes**



## INSTALLATION

### 1. INSTALL FUEL INJECTOR ASSEMBLY

- (a) Apply a light coat of gasoline or spindle oil to new O-rings, then install one onto each fuel injector.



- (b) Apply a light coat of gasoline or spindle oil to the contact surfaces of the fuel delivery pipe and the O-ring of the fuel injector.
- (c) Apply a light coat of gasoline or spindle oil to the O-ring again, then install the fuel injector into the fuel delivery pipe by turning it right and left.

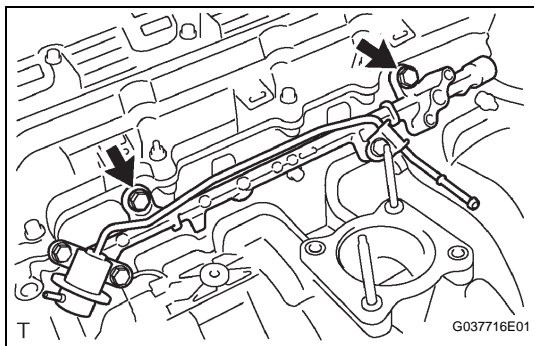
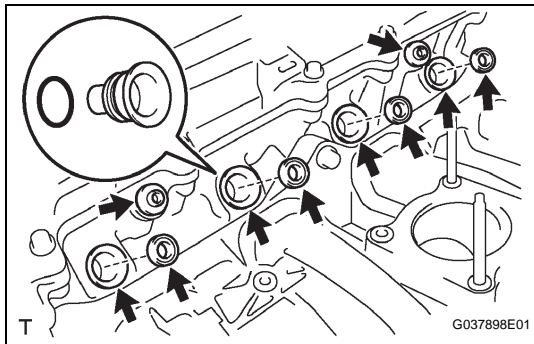
**NOTICE:**

**Make sure that the O-ring is not cracked or jammed when installing.**

- (d) Check that the fuel injector rotates smoothly. If the fuel injector does not rotate, replace the O-ring.

**2. INSTALL FUEL DELIVERY PIPE W/ INJECTOR**

- (a) Apply a light coat of gasoline or spindle oil to new O-rings, then install one onto each spacer.
- (b) Install the 4 spacers onto the cylinder head.
- (c) Install 4 new injector vibration insulators onto the cylinder head.
- (d) Install the 2 delivery pipe No. 1 spacers onto the cylinder head.

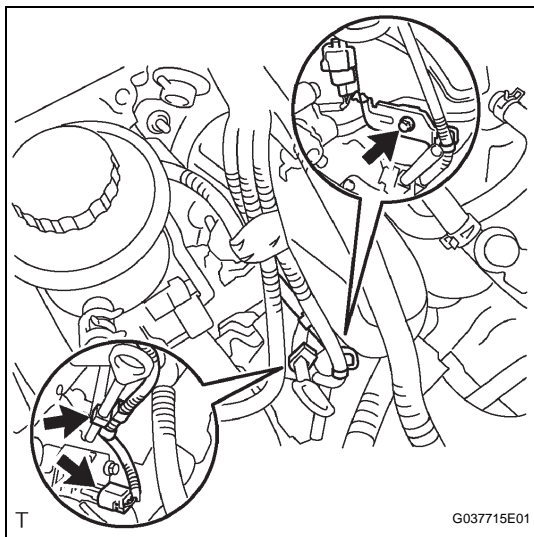


- (e) Install the fuel delivery pipe together with the 4 fuel injectors, then provisionally tighten the fuel delivery pipe with the 2 bolts.

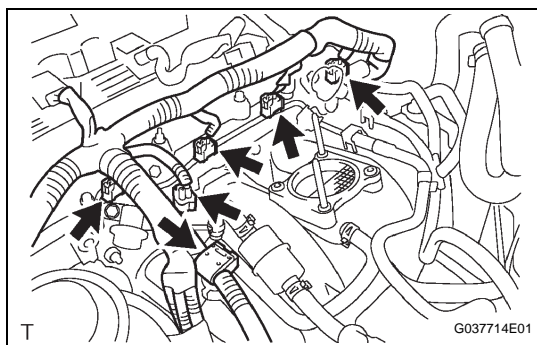
**NOTICE:**

**Do not drop the fuel injectors when installing the fuel delivery pipe.**

- (f) Check that the fuel injector rotates smoothly. If the fuel injector does not rotate, replace the O-ring.
- (g) Retighten the 2 bolts to the specified torque.  
**Torque: 12 N\*m (122 kgf\*cm, 9 ft.\*lbf)**
- (h) Install the harness clamp bracket with the bolt.  
**Torque: 8.2 N\*m (84 kgf\*cm, 73 in.\*lbf)**
- (i) Connect the wire harness clamp.
- (j) Connect the compressor magnetic clutch connector. (with AIR CONDITIONING)

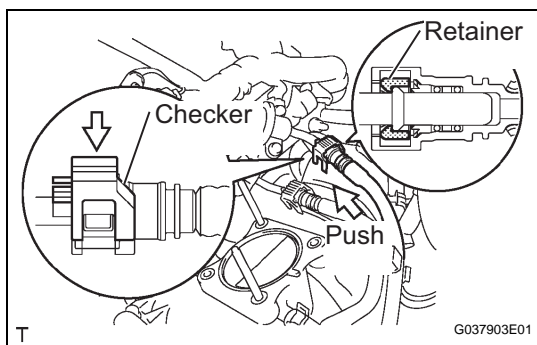






- (k) Connect the engine wire harness clamp.
- (l) Connect the VSV connector.
- (m) Connect the 4 injector connectors.

### 3. INSTALL FUEL PRESSURE PULSATION DAMPER ASSEMBLY (See page [FU-21](#))



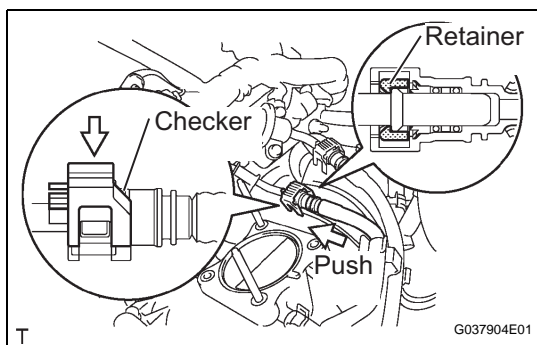
### 4. CONNECT FUEL HOSE

- (a) Align the fuel hose connector with the pipe stem, and insert the fuel hose until the retainer makes a "click" sound.
- (b) Push down the checker of the fuel hose.

#### NOTICE:

- Check that there are no scratches or foreign objects around the disconnected parts of the fuel hose connector and pipe before performing this work.
- After connecting the fuel hose, check that the fuel hose is securely connected by pulling the fuel hose connector and pipe.

- (c) Push the fuel hose down until the checker of the fuel hose makes a "click" sound.



### 5. CONNECT FUEL HOSE NO.2

- (a) Align the fuel hose connector with the pipe stem, and insert the fuel hose until the retainer makes a "click" sound.
- (b) Push down the checker of the fuel hose.

#### NOTICE:

- Check that there are no scratches or foreign objects around the disconnected parts of the fuel hose connector and pipe before performing this work.
- After connecting the fuel hose, check that the fuel hose is securely connected by pulling the fuel hose connector and pipe.

- (c) Push the fuel hose down until the checker of the fuel hose makes a "click" sound.

### 6. INSTALL THROTTLE WITH MOTOR BODY ASSEMBLY (See page [ES-454](#))

### 7. INSTALL INTAKE AIR CONNECTOR (See page [ES-455](#))

### 8. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 3.9 N\*m (40 kgf\*cm, 35 in.\*lbf)

### 9. ADD ENGINE COOLANT (See page [CO-3](#))

### 10. CHECK FOR ENGINE COOLANT LEAKAGE (See page [CO-2](#))

11. CHECK FOR FUEL LEAKAGE (See page [FU-7](#))
12. INSTALL ENGINE UNDER COVER SUB-ASSEMBLY NO.1