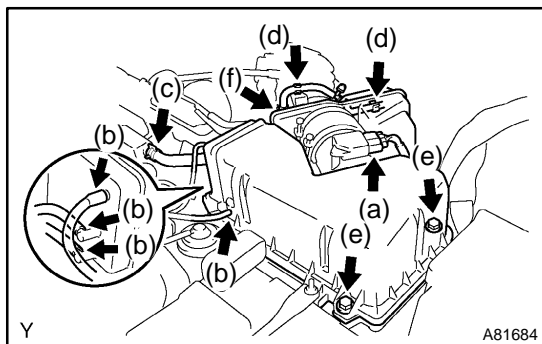


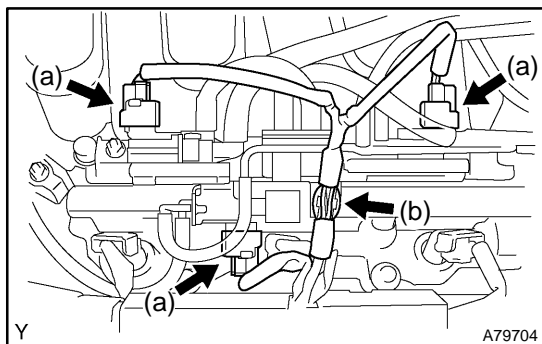
## REPLACEMENT

1. **DISCHARGE FUEL SYSTEM PRESSURE** (See page 11-26)
2. **DRAIN ENGINE COOLANT** (See page 16-27)
3. **REMOVE FRONT SUSPENSION UPPER BRACE CENTER**
  - (a) Remove the 2 nuts and upper brace.
4. **REMOVE V-BANK COVER SUB-ASSY** (See page 10-18)



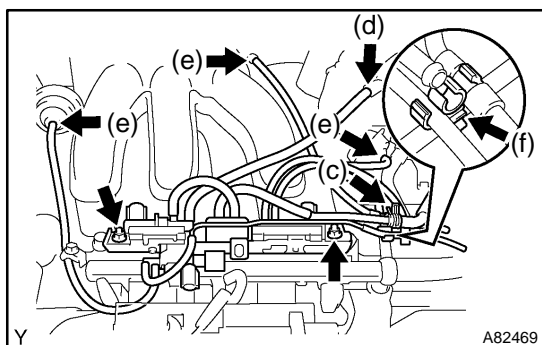
### 5. REMOVE AIR CLEANER CAP SUB-ASSY

- (a) Disconnect the MAF meter connector.
- (b) Disconnect the 4 vacuum hoses.
- (c) Disconnect the ventilation hose No. 2.
- (d) Remove the fuel vapor feed hose from the 2 hose clamps.
- (e) Loosen the 2 air cleaner cap bolts.
- (f) Loosen the air cleaner hose clamp bolt, and remove the air cleaner cap.
- (g) Remove the air cleaner filter element.

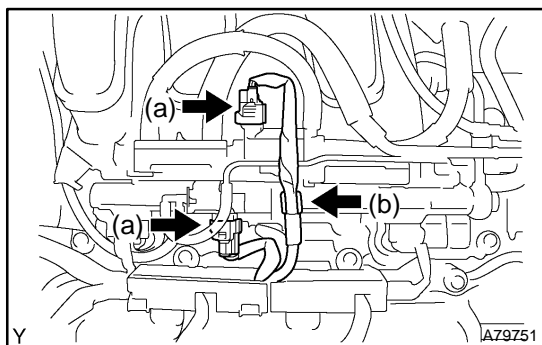


### 6. REMOVE EMISSION CONTROL VALVE SET (1MZ-FE ENGINE TYPE)

- (a) Disconnect the 3 VSV connectors.
- (b) Remove the wire harness clamp.

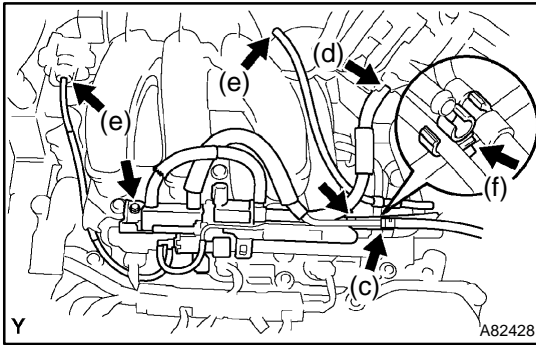


- (c) Disconnect the fuel vapor feed hose No. 1.
- (d) Disconnect the fuel vapor feed hose No. 2.
- (e) Disconnect the 3 vacuum hoses.
- (f) Remove the clamp.
- (g) Remove the 2 nuts, and then remove the emission control valve set.

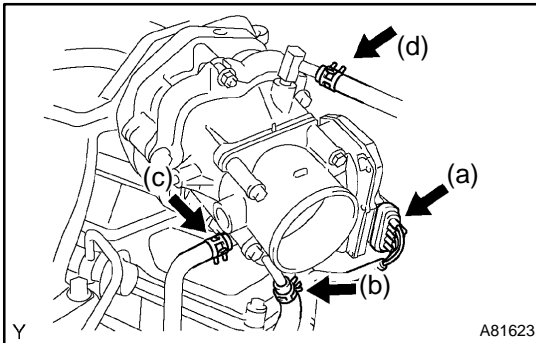


### 7. REMOVE EMISSION CONTROL VALVE SET (3MZ-FE ENGINE TYPE)

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

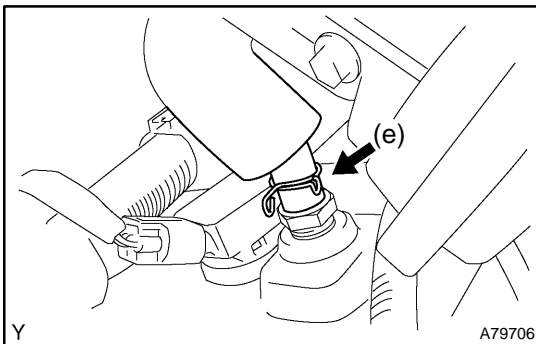


- (c) Disconnect the fuel vapor feed hose No. 1.
- (d) Disconnect the fuel vapor feed hose No. 2.
- (e) Disconnect the 2 vacuum hoses.
- (f) Remove the clamp.
- (g) Remove the 2 nuts and the emission control valve set.

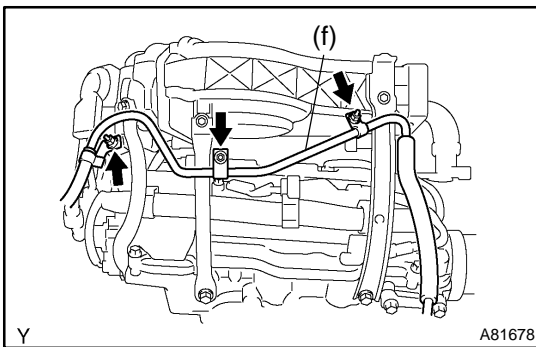


## 8. REMOVE INTAKE AIR SURGE TANK

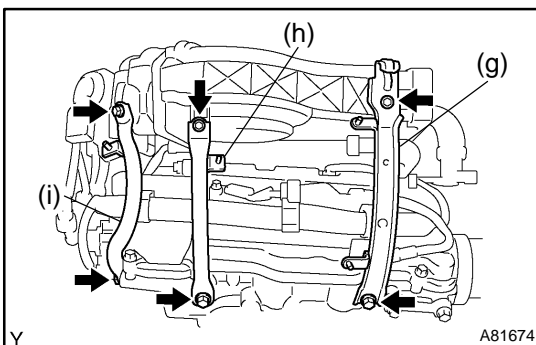
- (a) Disconnect the throttle motor connector.
- (b) Disconnect the water bypass hose No. 3.
- (c) Disconnect the water bypass hose No. 2.
- (d) Disconnect the union to check valve hose.



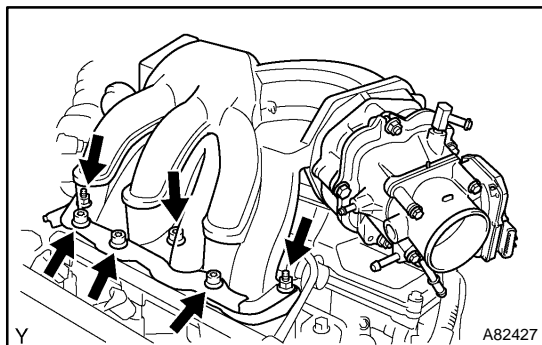
- (e) Disconnect the ventilation hose.



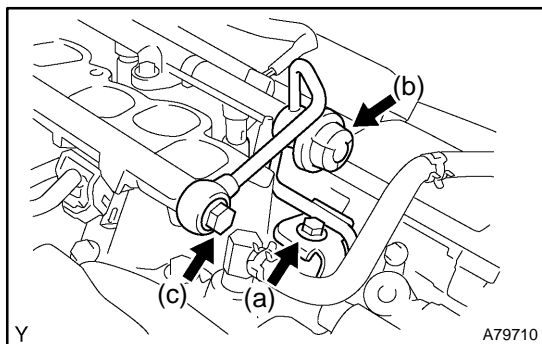
- (f) Remove the 3 nuts and separate the pressure feed tube.



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

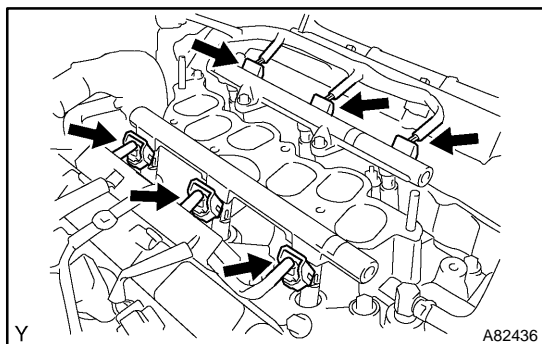


- (j) Using a socket hexagon wrench 8, remove the 4 bolts.
- (k) Remove the 2 nuts, emission control valve bracket and intake air surge tank.
- (l) Remove the gasket from the intake air surge tank.



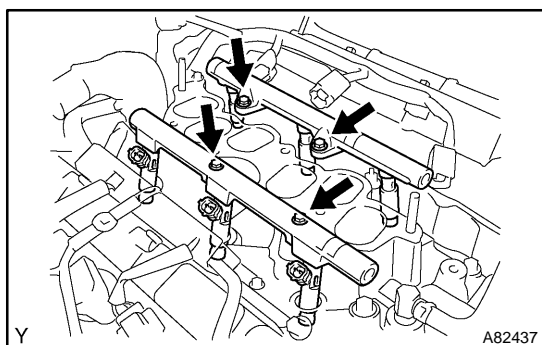
#### 9. SEPARATE FUEL PIPE SUB-ASSY NO.1

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



#### 10. REMOVE FUEL INJECTOR ASSY

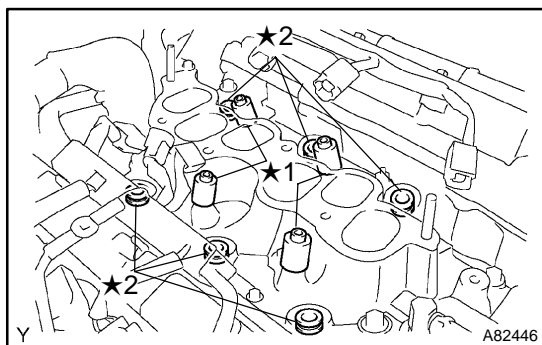
- (a) Disconnect the 6 fuel injector connectors.



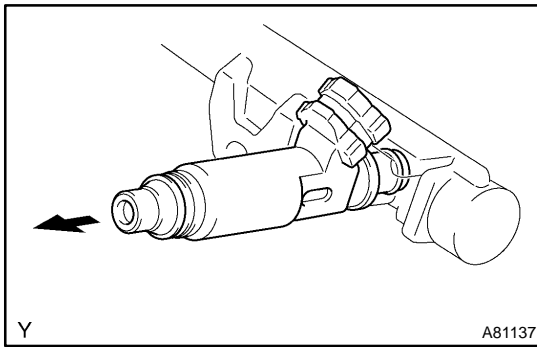
- (b) Remove the 4 bolts and 2 fuel delivery pipes together with the 6 fuel injectors.

#### NOTICE:

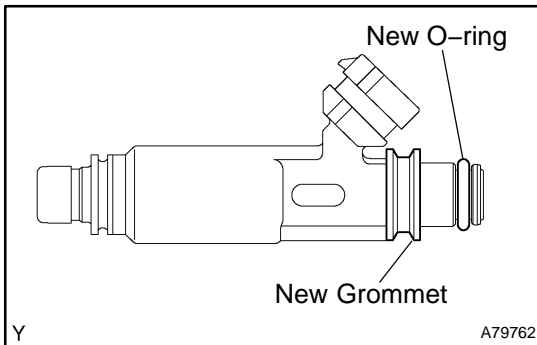
**Be careful not to drop the fuel injectors when removing the fuel delivery pipe.**



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

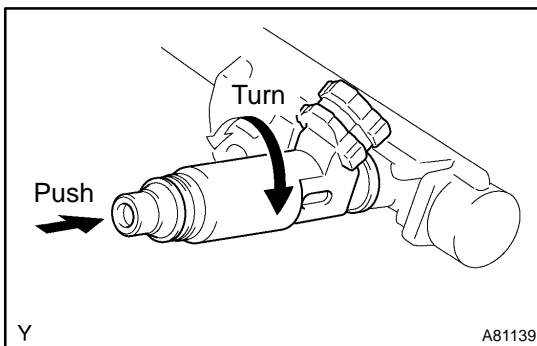


- (d) Pull out the fuel injector from the fuel delivery pipe.



## 11. INSTALL FUEL INJECTOR ASSY

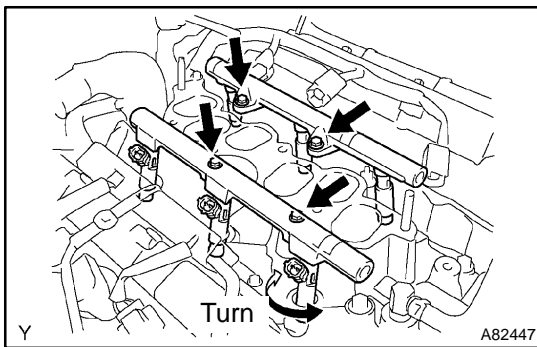
- (a) Install a new grommet to each injector.  
 (b) Apply a light coat of grease or gasoline to a new O-ring, and install it to each injector.



- (c) Apply a light coat of grease 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 injector, check that it 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 the 6 fuel injectors together on the intake manifold.

### NOTICE:

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

- (g) Temporarily install the 4 bolts which are used to attach the fuel delivery pipe to the intake manifold.

### NOTICE:

**After installing the fuel injector, check that it turns smoothly. If not, reinstall it with a new O-ring.**

- (h) Tighten the 4 bolts.  
**Torque: 10 N·m (102 kgf·cm, 7 ft·lbf)**  
 (i) Connect the 6 fuel injector connectors.

## 12. INSTALL FUEL PIPE SUB-ASSY NO.1

- (a) Install 2 new gaskets and the fuel pipe No. 2 union bolt.  
**Torque: 33 N·m (337 kgf·cm, 24 ft·lbf)**  
 (b) Install 2 new gaskets and the fuel pressure pulsation damper.  
**Torque: 33 N·m (337 kgf·cm, 24 ft·lbf)**

- (c) Install the fuel pipe No. 1 with the bolt.

**Torque: 20 N·m (204 kgf·cm, 14 ft·lbf)**

**13. INSTALL INTAKE AIR SURGE TANK**

- (a) Install a new gasket to the intake air surge tank.

- (b) Install the intake air surge tank and 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 (204 kgf·cm, 14 ft·lbf)**

- (e) Install the surge tank stay No. 1 with the 2 bolts.

**Torque: 20 N·m (204 kgf·cm, 14 ft·lbf)**

- (f) Install the engine hunger No. 1 with the 2 bolts.

**Torque: 20 N·m (204 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 bypass hose No. 2.

- (k) Connect the water bypass hose No. 3.

- (l) Connect the throttle motor connector.

**14. INSTALL EMISSION CONTROL VALVE SET (1MZ-FE ENGINE TYPE)**

**Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)**

**15. INSTALL EMISSION CONTROL VALVE SET (3MZ-FE ENGINE TYPE)**

**Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)**

**16. INSTALL AIR CLEANER CAP SUB-ASSY**

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

**17. CHECK CONNECTION OF VACUUM HOSE**

**18. ADD ENGINE COOLANT (See page 16-27)**

**19. CHECK FOR ENGINE COOLANT LEAKS (See page 16-21)**

**20. CHECK FOR FUEL LEAKS (See page 11-29)**

**21. INSTALL V-BANK COVER SUB-ASSY (See page 10-18)**

**22. INSTALL FRONT SUSPENSION UPPER BRACE CENTER**

- (a) Install the upper brace with the 2 nuts.

**Torque: 80 N·m (815 kgf·cm, 59 ft·lbf)**