

REMOVAL

1. DISCHARGE FUEL SYSTEM PRESSURE

CAUTION:

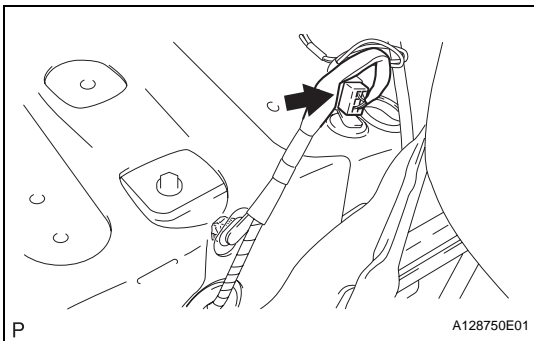
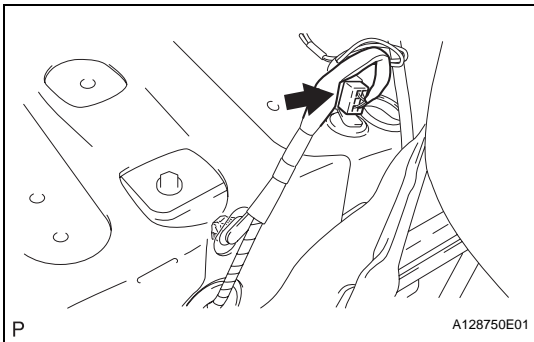
- **DISCHARGE FUEL SYSTEM PRESSURE** procedures must be performed before disconnecting any part of the fuel system.
- After performing the **DISCHARGE FUEL SYSTEM PRESSURE** procedures, pressure will remain in the fuel line. When disconnecting the fuel line, place a cloth or equivalent over fittings to reduce the risk of fuel spray.

- Remove the console box (see page [IR-83](#)).
- Disconnect the connector.
- Start the engine. After the engine has stopped, turn the ignition switch off.

HINT:

DTC P0171 (system too lean) may be set.

- Check that the engine does not start.
- Remove the fuel tank cap, and let the air out of the fuel tank.



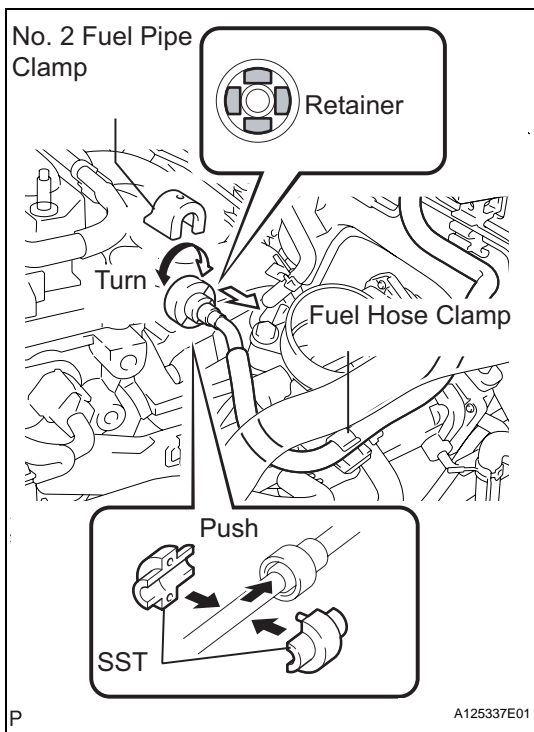
- Connect the connector.
- Install the console box (see page [IR-90](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

- REMOVE NO. 1 ENGINE COVER (See page [ES-410](#))
- REMOVE AIR CLEANER CAP SUB-ASSEMBLY (See page [ES-411](#))

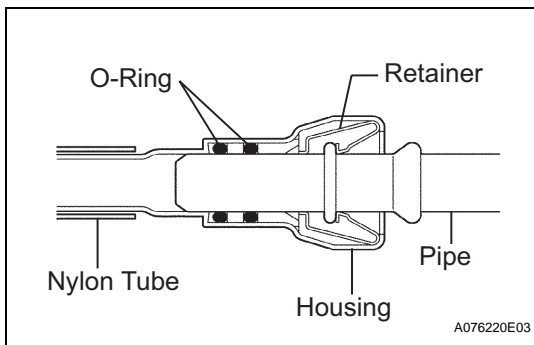


5. DISCONNECT FUEL MAIN TUBE

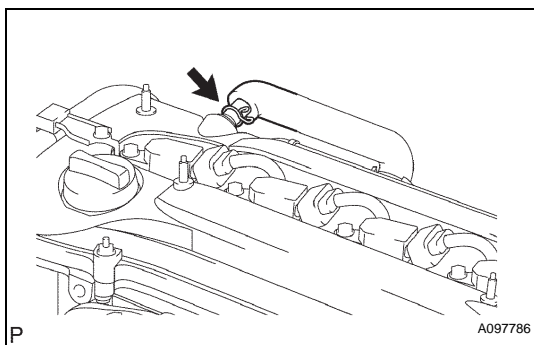
NOTICE:

Do not forcibly bend and twist the fuel main tube.

- (a) Remove the fuel tube from the fuel hose clamp.
- (b) Remove the fuel pipe clamp.
- (c) Wipe off any dirt on the fuel tube connector.
- (d) Hold the fuel tube connector, and then install SST. **SST 09268-21010**
- (e) Turn SST to align the retainer inside the fuel tube connector with the chamfered part of SST.
- (f) Insert SST into the fuel tube and hold it. Then push the fuel tube connector toward SST side.
- (g) Mount the retainer of the fuel tube connector onto the chamfered part of SST.

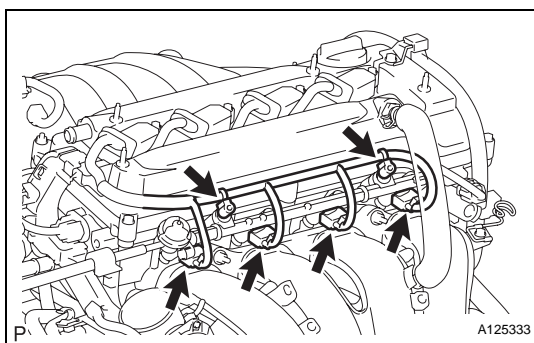


- (h) Slide SST and fuel tube connector together towards the fuel tube until they make a "click" sound, and then disconnect the fuel tube.
- (i) Drain the fuel remaining inside the fuel tube.
- (j) Cover the fuel tube and fuel pipe with a plastic bag to protect the disconnected part.



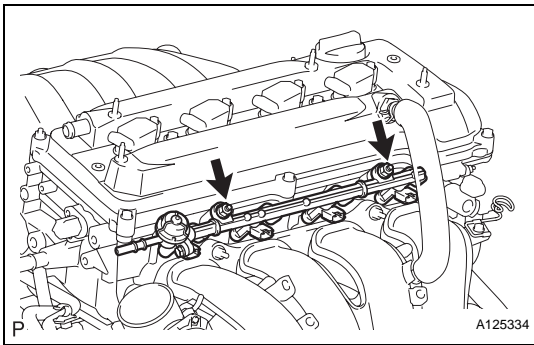
6. DISCONNECT NO. 2 VENTILATION HOSE

- (a) Disconnect the No. 2 ventilation hose from the ventilation valve.



7. REMOVE FUEL DELIVERY PIPE SUB-ASSEMBLY

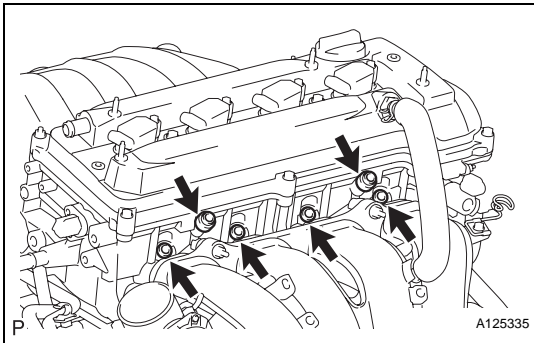
- (a) Remove the 2 wire harness clamps.
- (b) Disconnect the 4 fuel injector connectors.



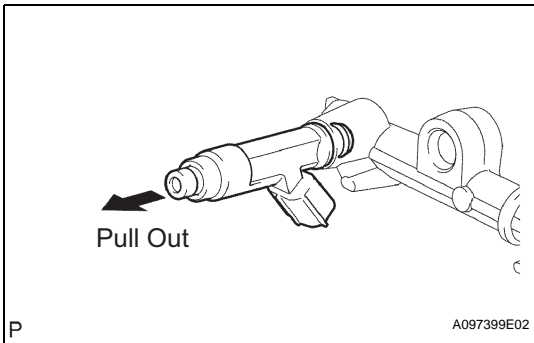
- (c) Remove the 2 bolts, then remove the fuel delivery pipe together with the 4 fuel injectors.

NOTICE:

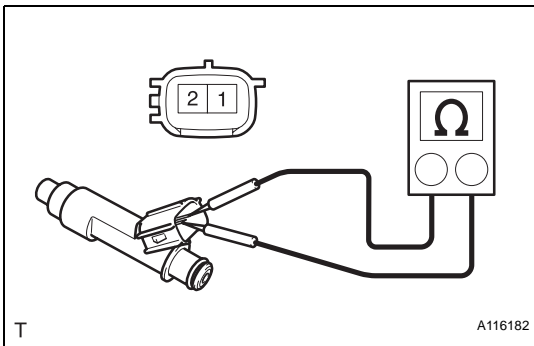
Be careful not to drop the fuel injectors when removing the fuel delivery pipe.



- (d) Remove the 2 delivery pipe spacers from the cylinder head.
 (e) Remove the 4 insulators from the cylinder head.

**8. REMOVE FUEL INJECTOR ASSEMBLY**

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

**INSPECTION****1. INSPECT FUEL INJECTOR ASSEMBLY**

- (a) Measure the resistance between the injector terminals.

Standard resistance:

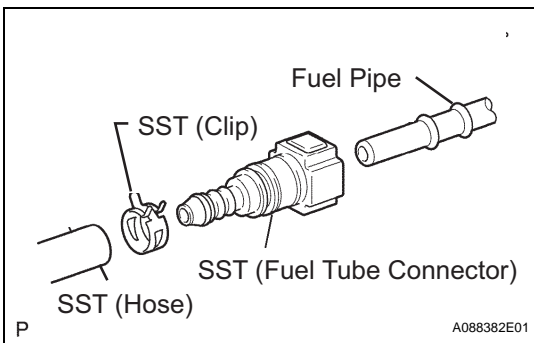
11.6 to 12.4 Ω at 20°C (68°F)

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

- (b) Inspect the injector injection.

CAUTION:

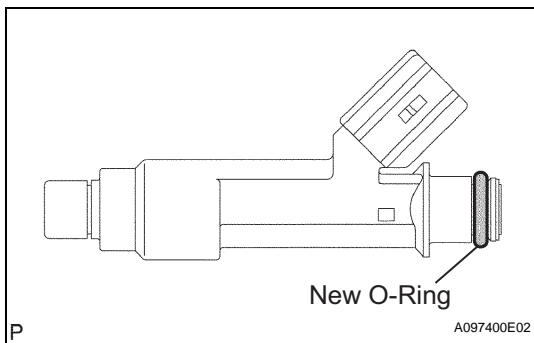
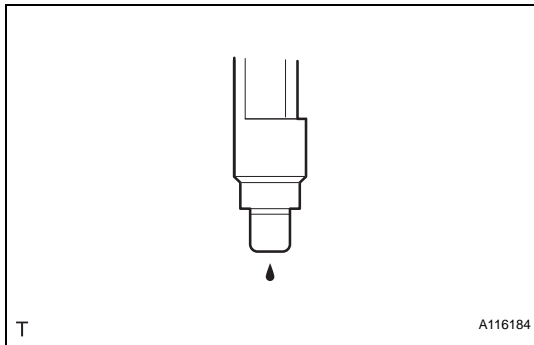
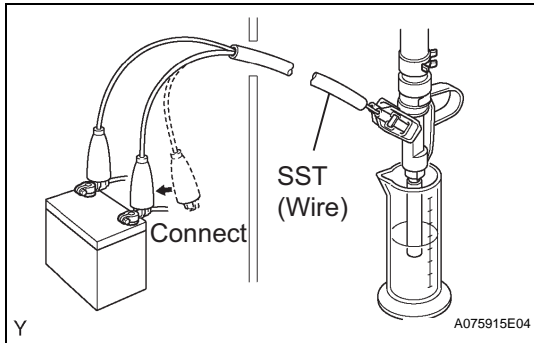
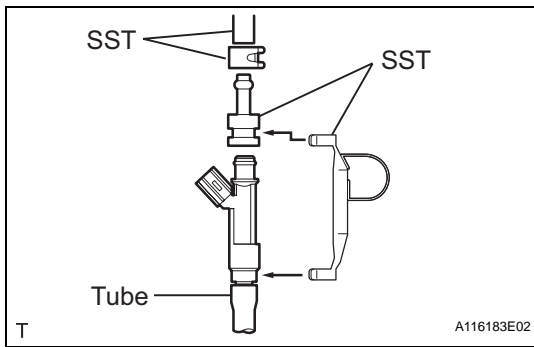
Keep the injector away from sparks during the test.



- (1) Connect SST (fuel tube connector) to SST (hose), then connect them to the fuel pipe (vehicle side).

SST 09268-31011 (09268-41500, 90467-13001, 95336-08070)

- (2) Install the O-ring to the fuel injector.

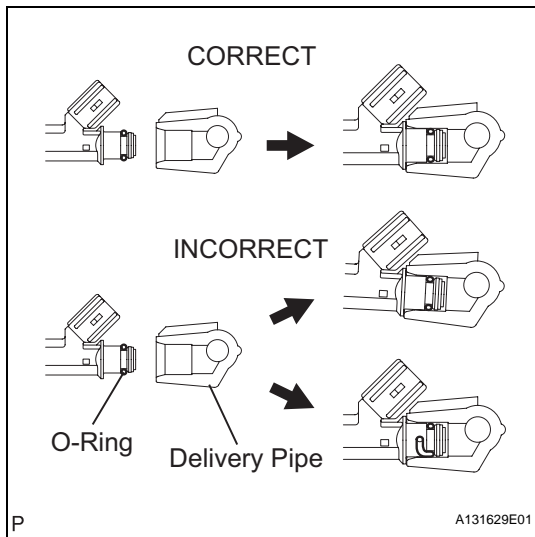


- (3) Connect SST (adapter and hose) to the injector, and hold the injector and union with SST (clamp).
SST 09268-31011 (09268-41110, 09268-41130, 09268-41310)
 - (4) Put the injector into the graduated cylinder.
CAUTION:
Install a suitable vinyl tube onto the injector to contain gasoline spray.
 - (5) Operate the fuel pump.
 - (6) Connect SST (wire) to the injector and the battery for 15 seconds, and measure the injection volume with the graduated cylinder. Test each injector 2 or 3 times.
SST 09842-30080
Standard injection volume:
76 to 92 cm³ (4.6 to 5.6 cu in.) per 15 seconds
Standard difference between each injector:
16 cm³ (1.0 cu in.) or less
- (c) Inspect the fuel leakage.
- (1) Disconnect the SST (wire) tester probes from the battery and check the fuel leakage from the injector.
Standard fuel drop:
1 drop or less per 12 minutes
 - (2) Turn the ignition switch OFF.
 - (3) Disconnect the cable from the negative (-) battery terminal.
 - (4) Remove SST.
SST 09842-30080
 - (5) Disconnect the intelligent tester from the DLC3.
 - (6) Reconnect the fuel inlet hose (rear fuel pipe) to the fuel main tube.

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.

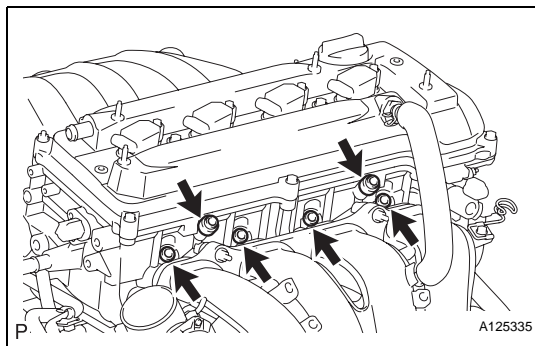


- (b) Apply a light coat of gasoline or spindle oil to the part of the fuel delivery pipe which comes into contact with the O-ring of the fuel injector.
- (c) Apply a light coat of gasoline or spindle oil to the O-ring again, then install the right and left fuel injectors onto the fuel delivery pipe.

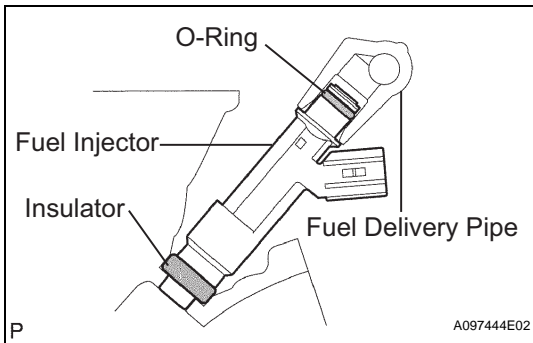
NOTICE:

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 SUB-ASSEMBLY**

- (a) Install 4 new insulators into the cylinder head.
- (b) Install the 2 delivery pipe spacers onto the cylinder head.

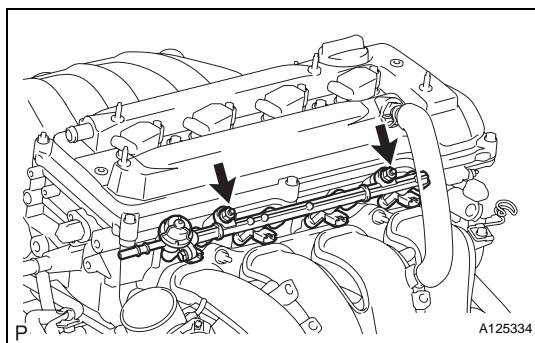


- (c) Install the fuel delivery pipe together with the 4 fuel injectors, then temporarily tighten the 2 bolts.

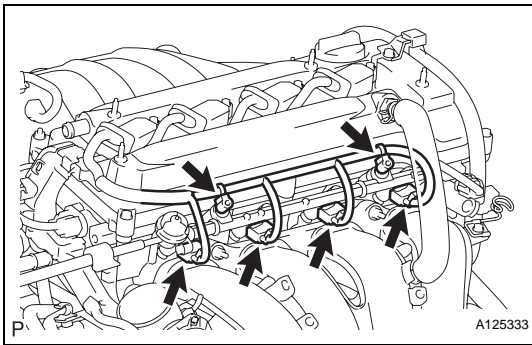
NOTICE:

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

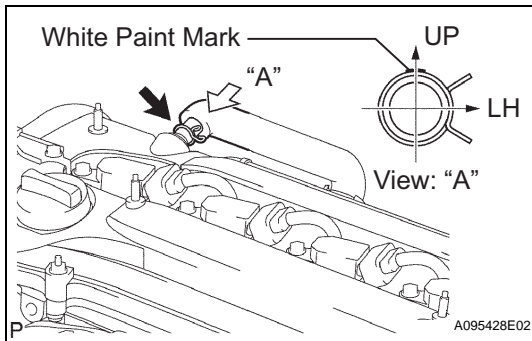
- (d) Check that the fuel injector rotates smoothly. If the fuel injector does not rotate, replace the O-ring.



- (e) Tighten the 2 bolts to the specified torque.
Torque: 20 N*m (205 kgf*cm, 15 ft.*lbf)



- (f) Connect the 4 fuel injector connectors.
- (g) Install the 2 wire harness clamps.



3. CONNECT NO. 2 VENTILATION HOSE

- (a) Connect the ventilation hose to the ventilation valve.
- NOTICE:**
Make sure that the paint mark and hose clamp are at the correct angle when installing the hose.

4. CONNECT FUEL MAIN TUBE

- (a) Connect the fuel main tube.
- (b) Push the fuel tube connector until it makes a "click" sound.
- (c) Install the fuel pipe clamp.
- (d) Install the fuel tube to the fuel hose clamp.

5. INSTALL AIR CLEANER CAP SUB-ASSEMBLY (See page [ES-413](#))

6. INSTALL NO. 1 ENGINE COVER (See page [ES-414](#))

7. CONNECT CABLE TO BATTERY NEGATIVE TERMINAL

8. CHECK FOR FUEL LEAKAGE

- (a) Make sure that there are no fuel leaks after performing maintenance on the fuel system.
 - (1) Connect the intelligent tester to the DLC3.
 - (2) Turn the ignition switch ON, and push the intelligent tester main switch ON.

NOTICE:
Do not start the engine.

 - (3) Select the Active Test mode on the intelligent tester.

HINT:
 Refer to the intelligent tester operator's manual for further details.

 - (4) Check that there are no leaks from the fuel system.
 - (5) Turn the ignition switch OFF.
 - (6) Disconnect the intelligent tester from the DLC3.

