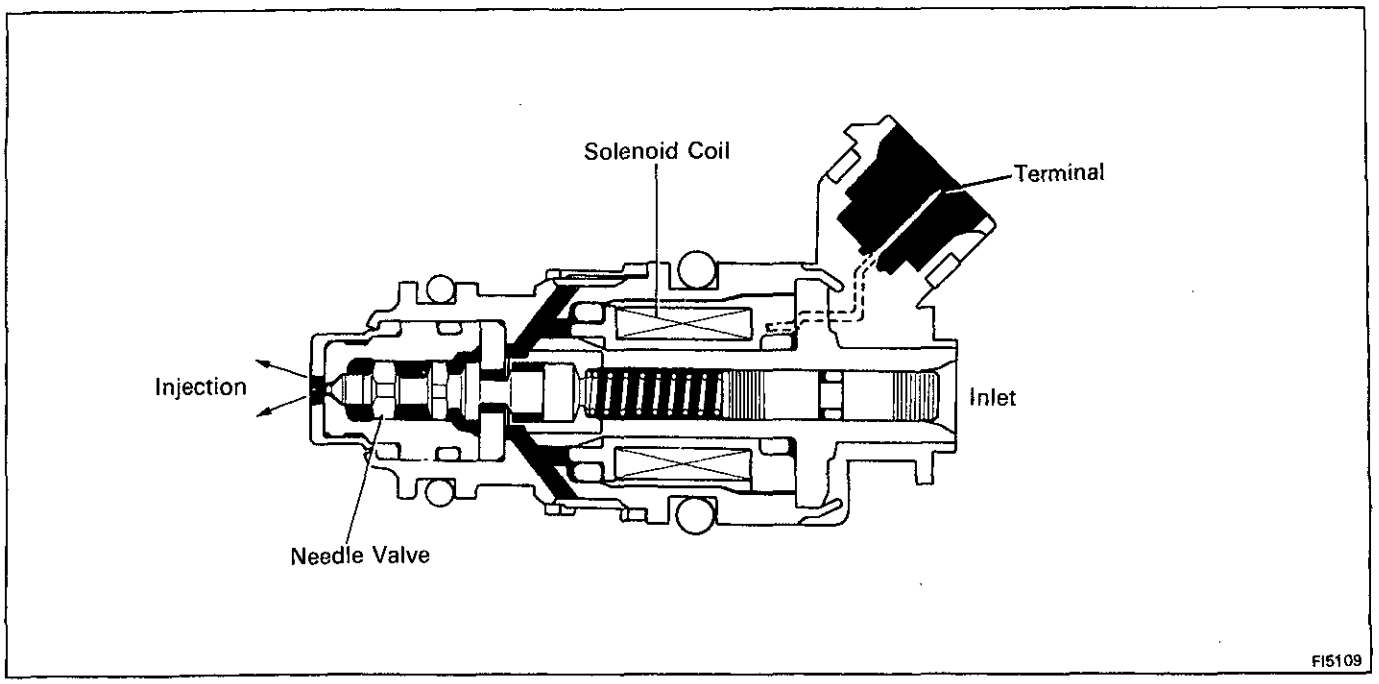
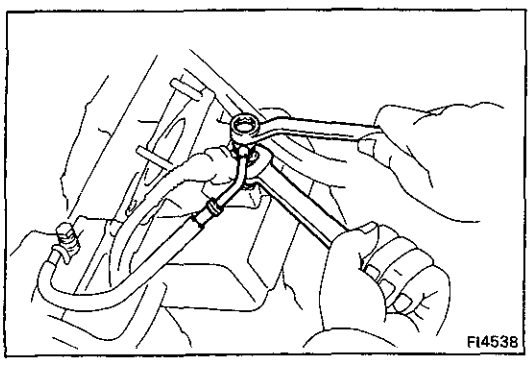
Injector

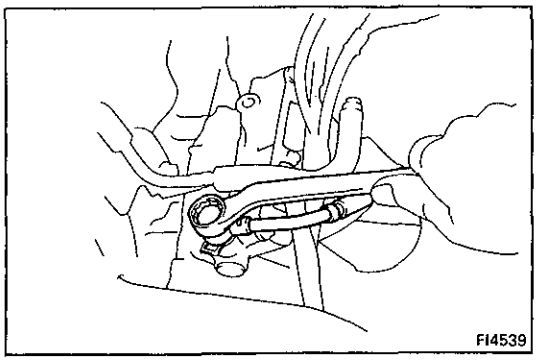


REMOVAL OF INJECTOR

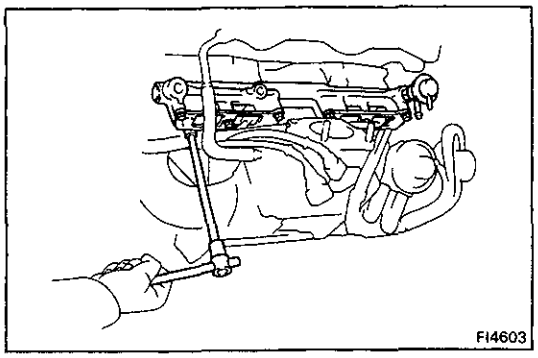
1. **DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY**
2. **DRAIN COOLANT**
3. **REMOVE THROTTLE BODY**
   (See page FI-60)
4. **REMOVE INJECTORS**
   (a) Disconnect the vacuum and fuel hoses from the pressure regulator.



(b) Remove the two union bolts, cold start injector tube and four gaskets.

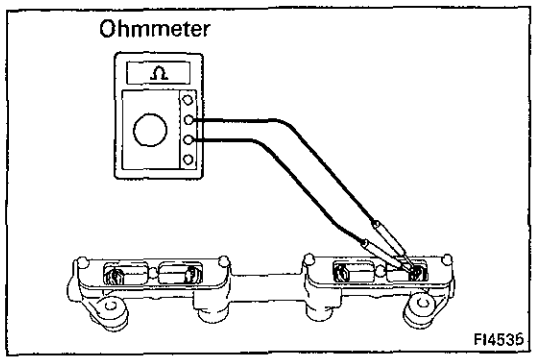


(c) Remove the union bolt and two gaskets, and disconnect the N0.1 fuel pipe from the delivery pipe.



(d) Remove the two bolts, delivery pipe together with the four injectors.

(e) Disconnect the four connectors from the injectors.



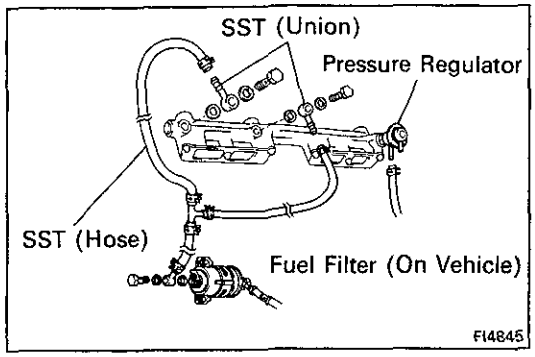
INSPECTION OF INJECTOR

1. MEASURE RESISTANCE OF INJECTOR

Using an ohmmeter, check the resistance of both terminals.

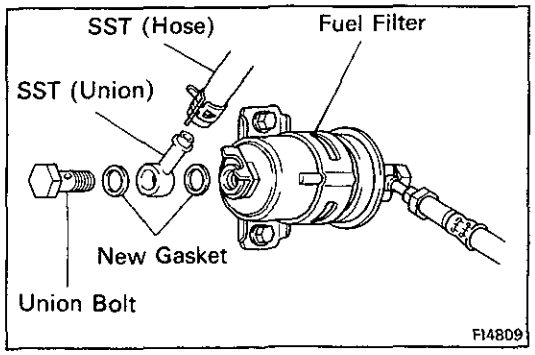
Resistance: 13.4 – 14.2 Ω

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



2. TEST INJECTION OF INJECTORS

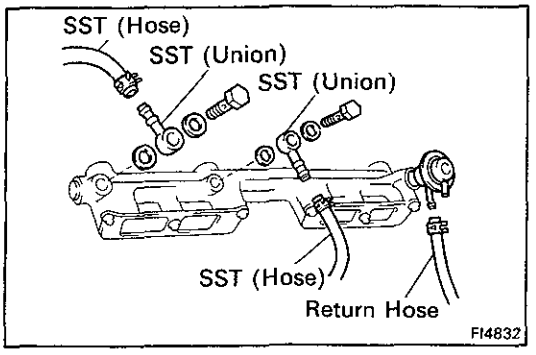
CAUTION: Keep clear of sparks during the test.



(a) Disconnect the fuel hose from the fuel filter outlet. tube.

(b) Connect SST(Union) to the fuel filter outlet.

SST 09268-41045 (90405-09015)



(c) Install SSTs(Union) and hoses to the delivery pipe.

SST 09268-41045 (90405-09015, 09268-41080)

(d) Connect the fuel return hose to the pressure regulator.

(e) Connect SST (Hose) to the three unions.

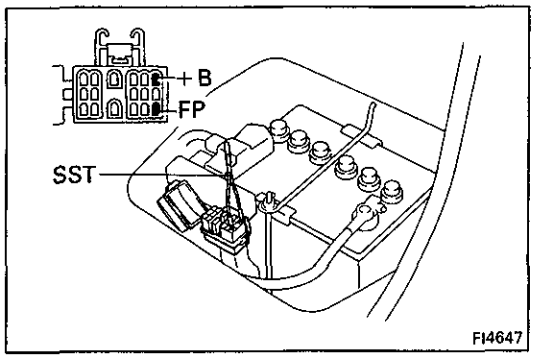
SST 09268-41045

(f) Put the injector into the graduated cylinder.

(g) Connect the battery cable.

(h) Turn the ignition switch to ON.

HINT: Do not start the engine.

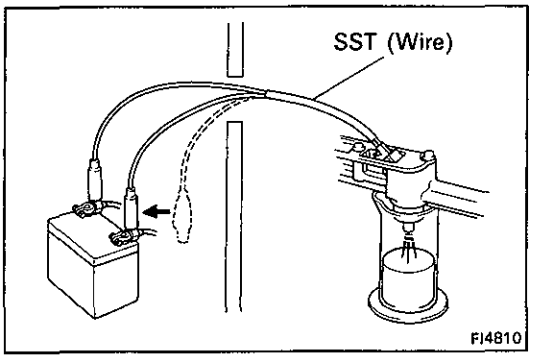


(i) Using SST, connect terminals FP and +B of the check connector.

SST 09843-18020

HINT:

- The check connector is located near the battery.
- The fuel pump will operate.



(j) Connect SST (Wire) to the injector and battery for 15 seconds and measure the injection volume with a graduated cylinder.

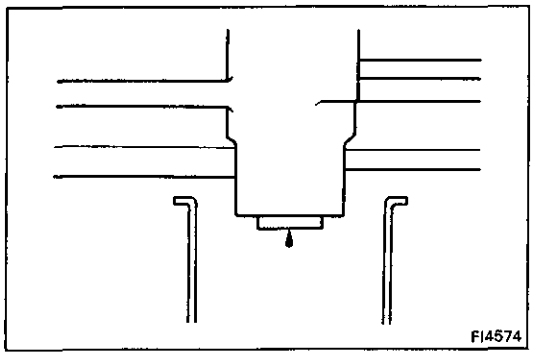
Test each injector two or three times.

SST 09842-30070

Volume: 40 – 50 cc/15 sec. (2.4 – 3.1 cu in.)

Difference between each injector:
Less than 6 cc (0.4 cu in.)

If not within specified volume, replace the injector.



3. CHECK LEAKAGE

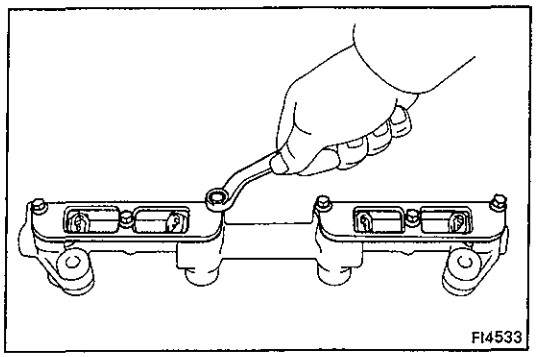
(a) In the condition above, disconnect SST from the battery and check for fuel leakage from the injector nozzle.

SST 09842-30070

Fuel drop: Less than one drop of fuel per minute

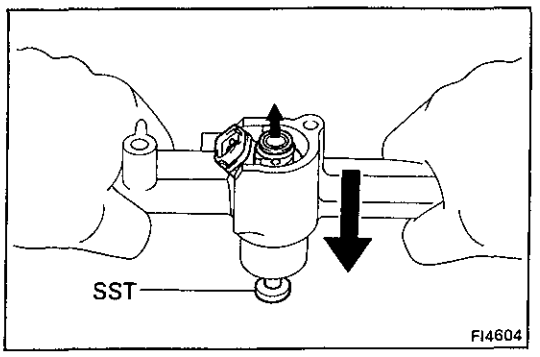
(b) Disconnect the battery cable.

(c) Remove SSTs.



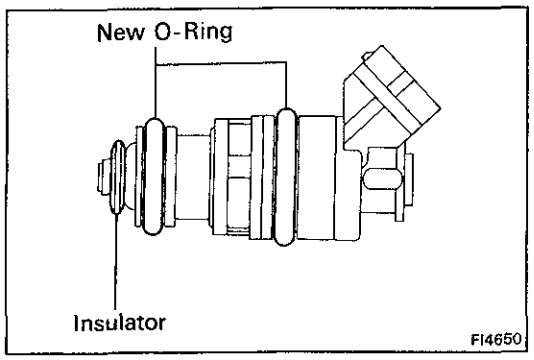
4. IF NECESSARY, REPLACE INJECTOR

(a) Remove the six bolts, injector covers and four insulators.

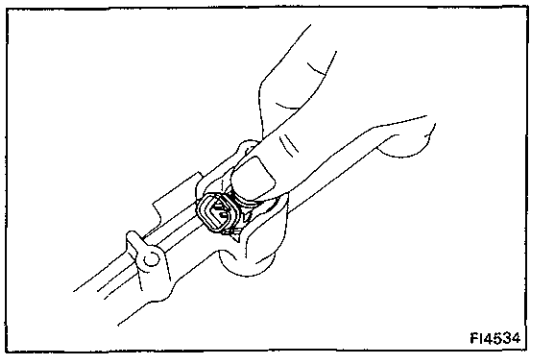


(b) Using SST, remove the injector.

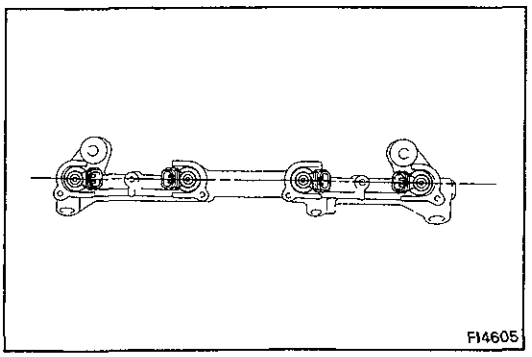
SST 09268-74010



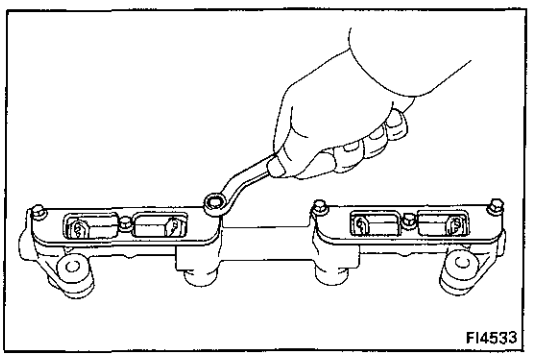
(c) Install new O-rings and insulator to the injector.



(d) Push the injector into the delivery pipe by hand.

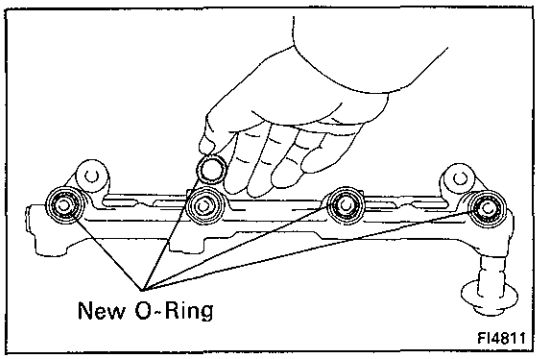


(e) Check that the injector connector is along the center line of the delivery pipe, as shown in the illustration.



(f) Install the insulator to each injector.

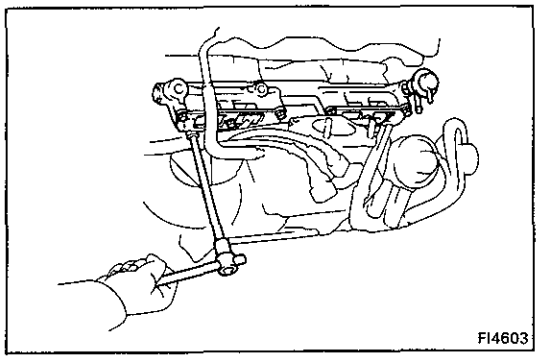
(g) Install the two injector covers with the six bolts.



INSTALLATION OF INJECTORS

1. **INSTALL DELIVERY PIPES WITH INJECTORS**

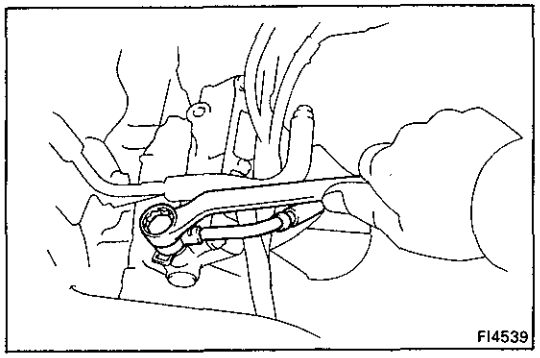
(a) Install new O-rings to the delivery pipe.



(b) Connect the four connectors to the four injectors.

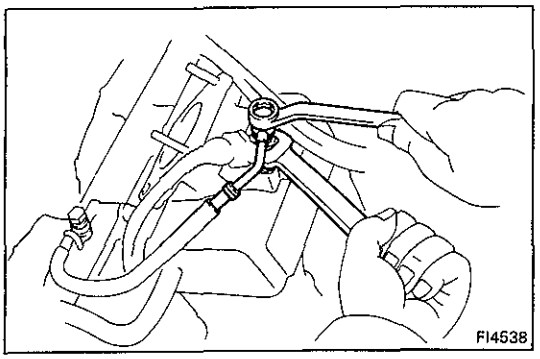
(c) Install the injectors together with the delivery pipe and two bolts on the intake manifold. Torque the two bolts.

Torque: 200 kg-cm (14 ft-lb, 20 N·m)



(d) Connect the No.1 fuel pipe to the delivery pipe with new gaskets and union bolt.

Torque: 300 kg-cm (22 ft-lb, 29 N·m)



(e) Install the cold start injector tube with two gaskets and two union bolts.

(f) Connect the fuel and vacuum hoses to the pressure regulator.

2. **INSTALL THROTTLE BODY**
(See page FI-63)

3. **CONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY**