

PRECAUTIONS

1. **Before working on the fuel system, disconnect the cable from the negative (-) terminal of the battery.**

HINT: Any diagnostic code retained by the computer will be erased when the battery terminal is removed.

Therefore, if necessary, read the diagnostic before removing the battery terminal.

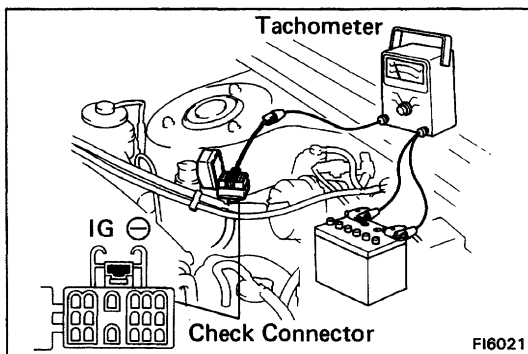
2. **Do not smoke or work near an open flame when working on the fuel system.**
3. **Keep gasoline away from rubber or leather parts.**

INSPECTION PRECAUTIONS

MAINTENANCE PRECAUTIONS

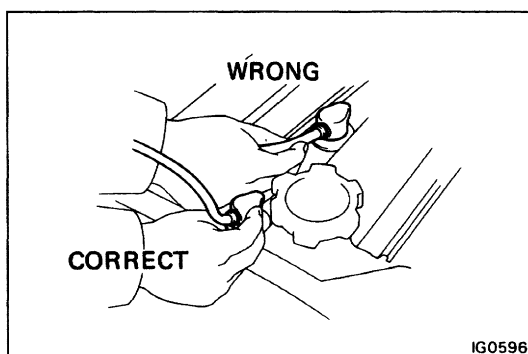
1. **CHECK CORRECT ENGINE TUNE-UP**

(See page [EM-8](#))



2. PRECAUTIONS WHEN CONNECTING GAUGE

- (a) Use the battery as the power source for the timing light, tachometer, etc.
- (b) Connect the test probe of a tachometer to the terminal IG (-) of the check connector.



3. IN EVENT OF ENGINE MISFIRE, THE FOLLOWING PRECAUTIONS SHOULD BE TAKEN

- (a) Check proper connection of battery terminals, etc.
- (b) Handle high-tension cords carefully.
- (c) After repair work, check that the ignition coil terminals and all other ignition system lines are reconnected securely.
- (d) When cleaning the engine compartment, be especially careful to protect the electrical system from water.

4. PRECAUTIONS WHEN HANDLING OXYGEN SENSOR(S)

- (a) Do not allow oxygen sensor to drop or hit against an object.
- (b) Do not allow the sensor to come into contact with water.

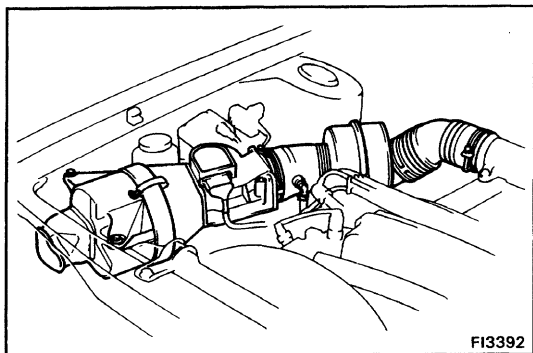
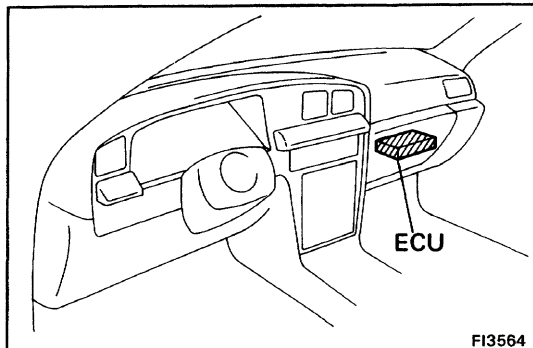
IF VEHICLE IS EQUIPPED WITH MOBILE RADIO SYSTEM (HAM, CB, ETC.)

The engine and ECT ECU has been designed so that it will not be affected by outside interference.

However, if your vehicle is equipped with a CB radio transceiver, etc. (even one with about 10 W output), it may, at times, have an effect upon ECU operation, especially if the antenna and feeder are installed nearby.

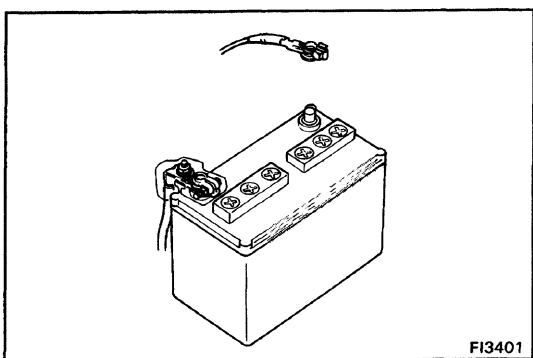
Therefore, observe the following precautions:

1. Install the antenna as far away as possible from the ECU.
The ECU is located under the radio so the antenna should be installed at the rear side of the vehicle.
2. Keep the antenna feeder as far away as possible from the ECU wires – at least 20 cm (7.87 in.) – and, especially, do not wind them together.
3. Check that the feeder and antenna are properly adjusted.
4. Do not equip your vehicle with a powerful mobile radio system.
5. Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)



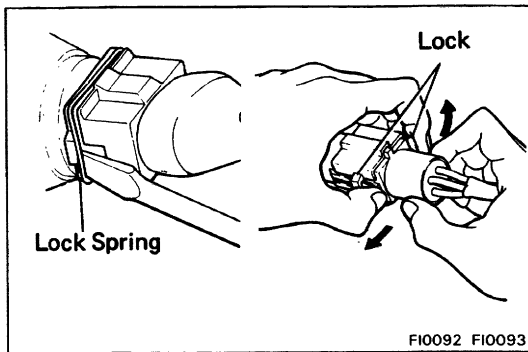
AIR INDUCTION SYSTEM

1. Separation of the engine oil dipstick, oil filler cap, PCV hose, etc. may cause the engine to run out of tune.
2. Disconnection, looseness or cracks in the parts of the air induction system between the throttle body and cylinder head will cause air suction and cause the engine to run out of tune.



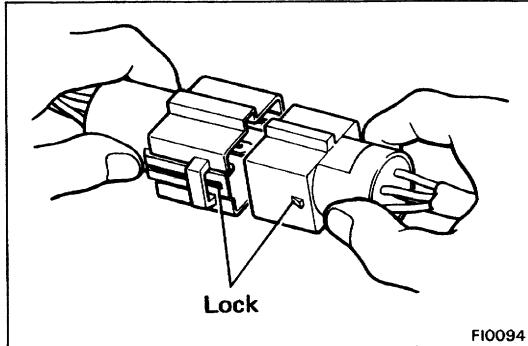
ELECTRONIC CONTROL SYSTEM

1. Before removing EFI wiring connectors, terminals, etc., first disconnect the power by either turning the ignition switch OFF or disconnecting the battery terminals.
2. When installing the battery, be especially careful not to incorrectly connect the positive (+) and negative (-) cables.
3. Do not jolt parts during removal or installation. Handle all EFI parts carefully, especially the ECU.
4. Do not be careless during troubleshooting as there are numerous transistor circuits and contact with terminals can cause further trouble.
5. Do not open the ECU cover.
6. When inspecting during rainy weather, take care to prevent entry of water. Also, when washing the engine compartment, prevent water from getting on EFI parts and wiring connectors.
7. Parts should be replaced as an assembly.

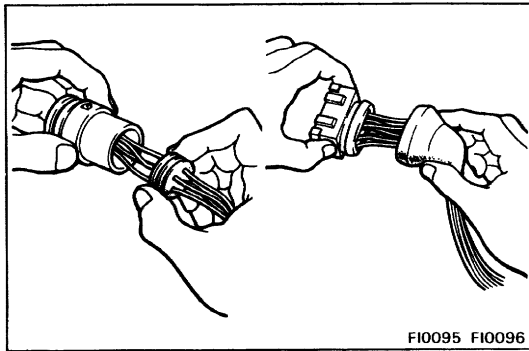


8. Care is required when pulling out and inserting wiring connectors.

- (a) Release the lock and pull out the connector, pulling on the connectors, not the wiring.

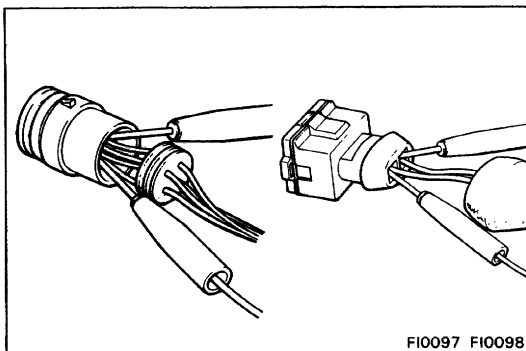


- (b) Fully insert the connector and check that it is locked .



9. When inspecting a connector with a volt/ohmmeter.

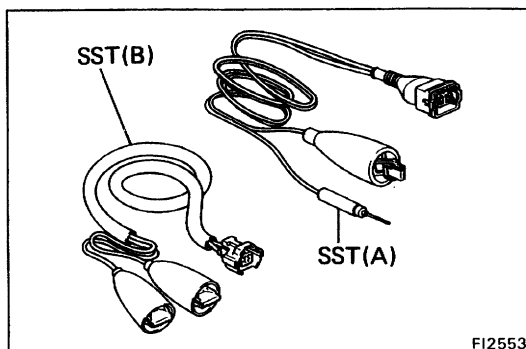
- (a) Carefully take out the water-proofing rubber if it is a water-proof type connector.



- (b) Insert the tester probe into the connector from the wiring side when checking continuity, amperage or voltage.

- (c) Do not apply unnecessary force to the terminal.

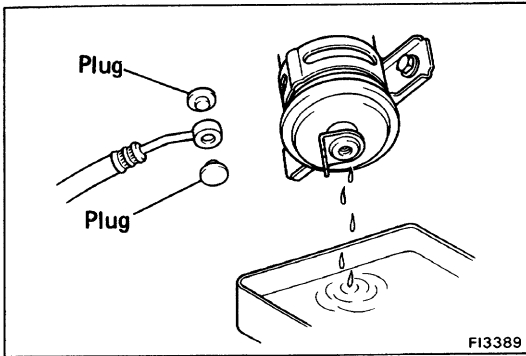
- (d) After checking, install the water-proofing rubber on the connector securely.



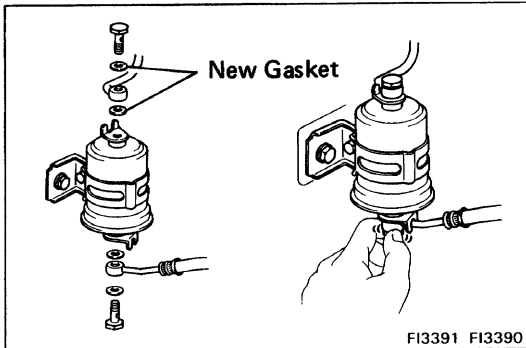
10. Use SST for inspection or testing of the injector, cold start injector or its wiring connector.

SST 09842-30050(A) and 09842-30070(B)

FUEL SYSTEM

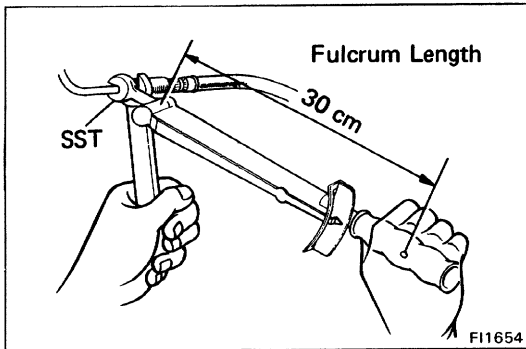


1. When disconnecting the high fuel pressure line, a large amount of gasoline will spill out, so observe the following procedure:
 - (a) Put a container under the connection.
 - (b) Slowly loosen the connection.
 - (c) Disconnect the connection.
 - (d) Plug the connection with a rubber plug.

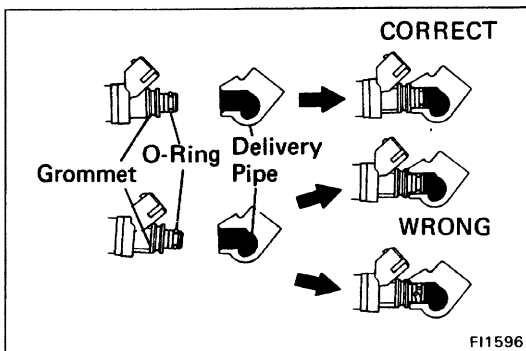


2. When connecting the flare nut or union bolt on the high pressure pipe union, observe the following procedure: (Union Bolt Type)
 - (a) Always use a new gasket.
 - (b) Tighten the union bolt by hand.
 - (c) Tighten the union bolt to the specified torque.

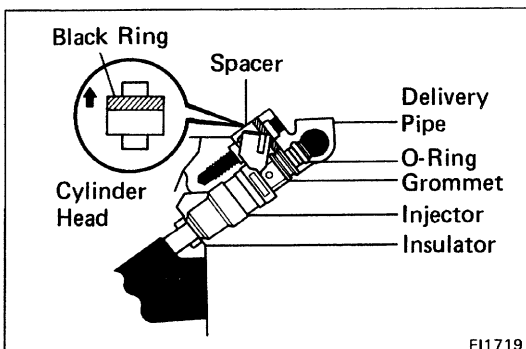
Torque: 300 kg-cm (22 ft-lb, 29 N-m)



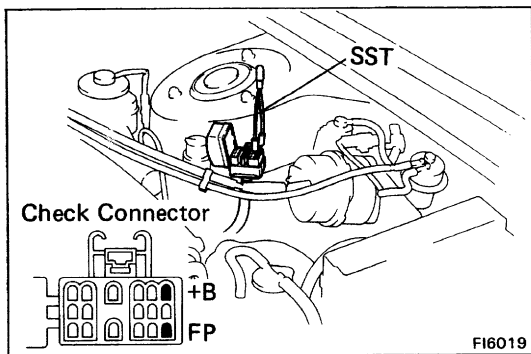
- (Flare Nut Type)
- (a) Apply a light coat of engine oil to the flare and tighten the flare nut by hand.
 - (b) Using SST, tighten the flare nut to the specified torque.
- SST 09631-22020
- Torque: 310 kg-cm (22 ft-lb, 30 N-m)**
- HINT: Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).



3. Observe the following precautions when removing and installing the injectors.
 - (a) Never reuse the O-ring.
 - (b) When placing a new O-ring on the injector, take care not to damage it in any way.
 - (c) Coat the new O-ring with spindle oil or gasoline before installing it - never use engine, gear or brake oil.

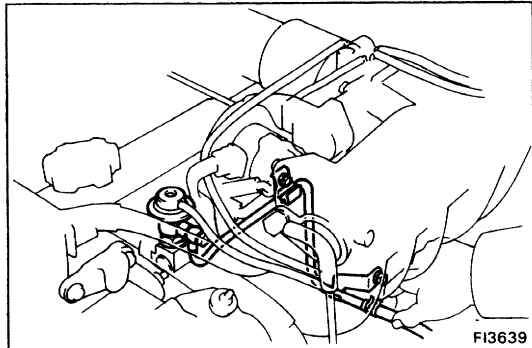


4. Install the injector to delivery pipe and cylinder head as shown in the illustration.



5. Check that there are no fuel leaks after performing any maintenance on the fuel system.
 - (a) With engine stopped, turn the ignition switch ON.
 - (b) Using SST, connect terminals + B and FP of the check connector.

SST 09843-18020



- (c) When the fuel return hose is pinched, the pressure within high pressure line will rise to approx. 4 kg/cm² (57 psi, 392 kPa). In this state, check to see that there are no leaks from any part of the fuel system.

NOTICE: Always pinch the hose. Avoid bending as it may cause the hose to crack.