REMOVAL

1. DISCHARGE FUEL SYSTEM PRESSURE
   (See page FU-1)

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

3. DRAIN ENGINE COOLANT (See page CO-3)

4. REMOVE V-BANK COVER (See page ES-428)

5. REMOVE AIR CLEANER ASSEMBLY (See page ES-429)

6. REMOVE THROTTLE BODY BRACKET
   (a) Remove the 2 bolts and the throttle body bracket.

7. REMOVE OIL BAFFLE PLATE
   (a) Remove the bolt and the oil baffle plate.

8. REMOVE NO. 1 SURGE TANK STAY
   (a) Remove the 2 bolts and the No. 1 surge tank stay.
9. REMOVE NO. 2 SURGE TANK STAY
   (a) Remove the 2 bolts and the No. 2 surge tank stay.

10. REMOVE INTAKE AIR SURGE TANK
    (a) Disconnect the 2 water by-pass hoses.
    (b) Disconnect the fuel vapor feed hose.
    (c) Disconnect the ventilation hose.
(d) Disconnect the 2 VSV connectors.
(e) Disconnect the throttle body with motor connector.
(f) Separate the 3 wire harness clamps and the hose clamp.

(g) Remove the 2 nuts.
(h) Using a socket hexagon wrench 8, remove the 4 bolts, intake air surge tank and the gasket.

11. DISCONNECT NO. 1 FUEL PIPE SUB-ASSEMBLY
(a) Remove the No. 2 fuel pipe clamp.
(b) Pinch the tube connector, and then pull the fuel pipe out of the delivery pipe as shown in the illustration.

NOTICE:
- Remove any dirt and foreign objects from 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 tube.
- If the fuel tube connector and pipe are stuck, push and pull to release them.
12. DISCONNECT NO. 2 FUEL PIPE SUB-ASSEMBLY
   (a) Remove the No. 2 fuel pipe clamp.
   (b) Pinch the tube connector, and then pull the fuel pipe
       out of the delivery pipe as shown in the illustration.
   NOTICE:
   • Remove any dirt and foreign objects from 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
     tube.
   • If the fuel tube connector and pipe are stuck,
     push and pull to release them.

13. REMOVE FUEL DELIVERY PIPE SUB-ASSEMBLY
   (a) Disconnect the 6 fuel injector connectors.
   (b) Remove the 6 bolts and remove the fuel delivery
       pipe together with the 6 fuel injectors.
   NOTICE:
   Do not drop the injectors when removing the
   fuel delivery pipe.

14. REMOVE FUEL INJECTOR
   (a) Pull the 6 injectors out of the delivery pipe.

INSPECTION
1. INSPECT FUEL INJECTOR ASSEMBLY
   (a) Check the resistance.
      (1) Using an ohmmeter, measure the resistance
          between the terminals.
          Standard resistance
          | Tester Connection | Specified Condition |
          |-------------------|---------------------|
          | 1-2               | 11.6 to 12.4 Ω at 20°C (68°F) |
If the result is not as specified, replace the fuel injector.

(b) Check the injection volume.

**NOTICE:**
- Perform the test in a well-ventilated area away from naked flames.
- Handle the fuel tube connector carefully.

1. Install the fuel tube connector into SST (hose), then connect the tube connector to the fuel pipe.
   - SST 09268-31011 (95336-08070, 09268-41500)
   - **CAUTION:** Connect the fuel tube connector (quick type) after observing the precautions.
2. Remove the fuel pressure regulator (See page FU-22).
3. Install the O-ring onto the fuel inlet of the pressure regulator.
4. Connect SST (hose) to the fuel inlet of the pressure regulator with another SST (union) and the 2 bolts.
   - SST 09268-31011 (09268-41091, 95336-08070)
   - Torque: 9.0 N·m (92 kgf·cm, 80 in.*lbf)
5. Connect the fuel return hose to the fuel outlet of the pressure regulator.
6. Install a new O-ring onto the injector.
7. Connect SST (adaptor and hose) to the injector and hold the injector and union with SST (clamp).
   - SST 09268-31011 (95336-08070, 09268-41100), 09268-41140
8. Set the injector in a graduated cylinder.
   - **CAUTION:** Install a suitable vinyl tube onto the injector to prevent gasoline splashes.
(9) Connect the intelligent tester to the DLC3.
(10) Turn the ignition switch ON.
(11) Turn the intelligent tester ON.
(12) Select the following menu items: DIAGNOSIS / ENHANCED OBD II / ACTIVE TEST / FUEL PUMP / SPD / ON.
(13) Install SST onto the fuel injector.

(14) Connect SST to the battery, then measure the injection volume for 15 seconds. Perform the inspection 2 or 3 times, then calculate the average.

**Standard:**

<table>
<thead>
<tr>
<th>Injection Volume</th>
<th>Difference Between Each Fuel Injector</th>
</tr>
</thead>
<tbody>
<tr>
<td>76 to 91 cm³ (4.6 to 5.5 cu in.) per 15 seconds</td>
<td>15 cm³ (0.9 cu in.) or less</td>
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</tbody>
</table>

**NOTICE:**
Always do the switching at the battery side.
If the result is not as specified, replace the fuel injector.

(c) Check for fuel leakage.
(1) When checking the injection volume, remove SST from the battery. Inspect the fuel leakage from the fuel injector.

**Standard:**
1 drop or less every 12 minutes.
If the result is not as specified, replace the fuel injector.

**INSTALLATION**

1. **INSTALL FUEL INJECTOR**
(a) Install a new insulator onto each fuel injector.
(b) Apply a light coat of spindle oil or gasoline to a new O-ring and install it onto each fuel injector.
1. INSTALL FUEL DELIVERY PIPE SUB-ASSEMBLY
   (a) Place the fuel delivery pipe together with the 6 fuel injectors on the intake manifold.
   (b) Provisionally install the 6 bolts, which are used to hold the fuel delivery pipe, onto the intake manifold.
   (c) Check that the fuel injectors rotate smoothly.
       HINT:
       If the fuel injectors do not rotate smoothly, replace the O-ring.
   (d) Position each fuel injector connector facing outward.
   (e) Tighten the 6 bolts, which are used to hold the fuel delivery pipe, to the intake manifold.
       Torque: 15 N*m (153 kgf*cm, 11 ft.*lbf)
   (f) Connect the 6 fuel injector connectors.

2. INSTALL NO. 2 FUEL PIPE SUB-ASSEMBLY
   (a) Push the tube connector into the pipe until the tube connector makes a "click" sound.
       NOTICE:
       • Check if there is any damage or foreign objects on the connected part of the fuel pipe.
       • After connecting, check that the pipe and connector are securely connected by pulling them.
   (b) Install the fuel pipe clamp.

3. INSTALL NO. 1 FUEL PIPE SUB-ASSEMBLY
   (a) Push the tube connector into the pipe until the tube connector makes a "click" sound.
       NOTICE:
       • Check if there is any damage or foreign matter on the connected part of the fuel pipe.
       • After connecting, check that the pipe and connector are securely connected by pulling them.
   (b) Install the fuel pipe clamp.

5. INSTALL INTAKE AIR SURGE TANK
   (a) Install a new gasket onto the intake air surge tank.
(b) Using a socket hexagon wrench 8, install the intake air surge tank with the 4 bolts.  
**Torque: 28 N*m (286 kgf*cm, 21 ft.*lbf)**
(c) Install the 2 nuts.  
**Torque: 28 N*m (286 kgf*cm, 21 ft.*lbf)**

(d) Install the 3 wire harness clamps and hose clamp.  
(e) Connect the throttle body with motor connector.  
(f) Connect the 2 VSV connectors.

(g) Connect the ventilation hose.

(h) Connect the fuel vapor feed hose.
1. Connect the 2 water by-pass hoses.

6. INSTALL NO. 2 SURGE TANK STAY
   (a) Install the No. 2 surge tank stay with the 2 bolts.
   Torque: 21 N*m (214 kgf*cm, 15 ft.*lbf)

7. INSTALL NO. 1 SURGE TANK STAY
   (a) Install the No. 1 surge tank stay with the 2 bolts.
   Torque: 21 N*m (214 kgf*cm, 15 ft.*lbf)

8. INSTALL OIL BAFFLE PLATE
   (a) Install the oil baffle plate with the bolt.
   Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)

9. INSTALL THROTTLE BODY BRACKET
   (a) Install the throttle body bracket with the 2 bolts.
   Torque: 21 N*m (214 kgf*cm, 15 ft.*lbf)

10. INSTALL AIR CLEANER ASSEMBLY (See page ES-431)

11. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL
   Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

12. ADD ENGINE COOLANT (See page CO-3)
13. CHECK FOR ENGINE COOLANT LEAKAGE (See page CO-4)
14. CHECK FOR FUEL LEAKAGE
15. INSTALL V-BANK COVER (See page ES-431)