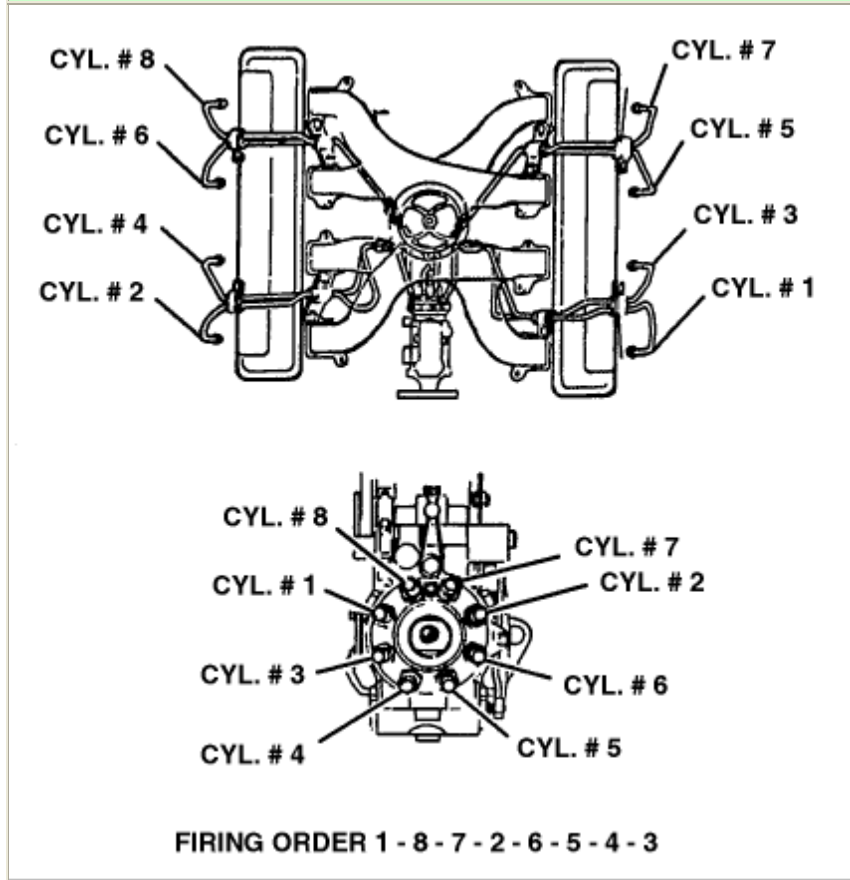




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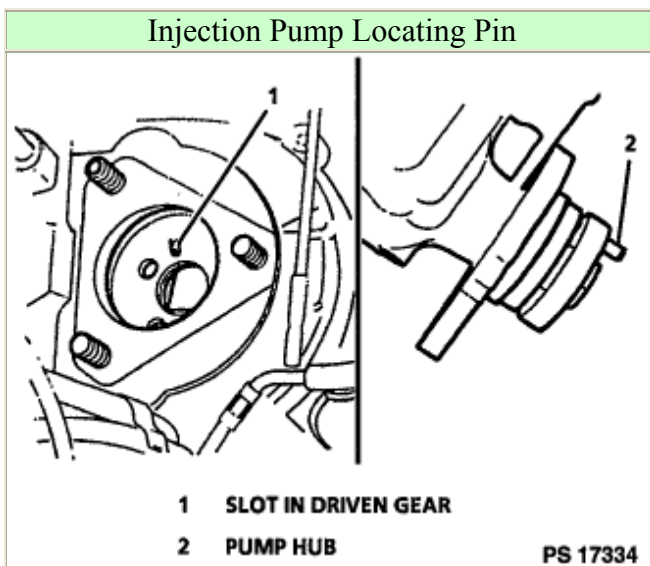
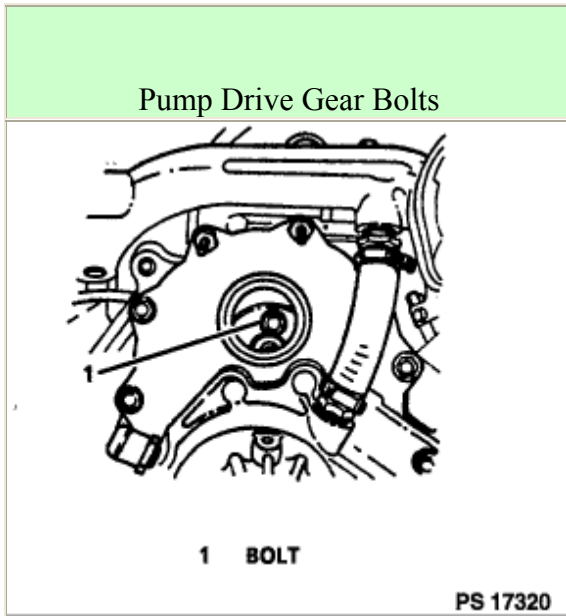
## Injection Pump Replacement

### Injection Line Routing





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**CAUTION:** Never engage the starter motor to rotate the engine when the injection pump is removed as severe engine damage will occur. With the injection pump removed the

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pump driven gear could jam in the front housing by engaging the starter motor, resulting in a sheared crankshaft or camshaft gear key and possible valvetrain damage. Always bar the engine over by hand to avoid internal damage.

- Scribe or paint a mark on the front cover and the injection pump flange.
- Rotate the engine to gain access to the bolts that hold the driven gear to the injection pump.
- Access is gained through the oil filler neck hole.

**NOTE** : Removing the fuel injection pump and injection lines requires removing the intake manifold.

### REMOVE OR DISCONNECT

1. Negative battery cable.
2. Intake manifold. Refer to **Intake Manifold** .
3. Injection lines. Refer to [Fuel Injector Line Replacement](#) .
4. Fuel inlet line from the injection pump.
5. All necessary harness connectors and hoses from the injection pump.
6. [Fuel return line](#) at the top of the injection pump.
7. Oil fill tube.
8. Grommet for oil filler tube.
9. Bolts.
10. Flange nuts.
11. Pump.

- Cap all open lines and nozzles.

12. Gasket.

### INSTALL OR CONNECT

1. New gasket. **NOTE** : Be sure the locating pin on the pump hub goes into the slotted hole in the driven gear and not the hole in the gear.
2. Injection pump to the front cover.
  - Align the locating pin on the pump hub with the slot in the injection pump driven gear.
3. Flange nuts. **Tighten**
  - Nuts to **40 Nm (30 lb. ft.)** .



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4. Drive gear to injection pump bolts. **Tighten**
  - Bolts to **25 Nm (20 lb. ft.)** .
5. Grommet for oil filler tube.
6. Oil filler tube.
7. Fuel feed line at the injection pump.
8. [Fuel return line](#) to the top of the injection pump.
9. All necessary harness connectors.
10. Injection lines. Refer to [Fuel Injector Line Replacement](#) .
11. Intake manifold. Refer to **Intake Manifold Replacement** .
12. Negative battery cables.
13. Adjust [injection timing](#). Refer to **Checking or Adjusting Injection Timing** .