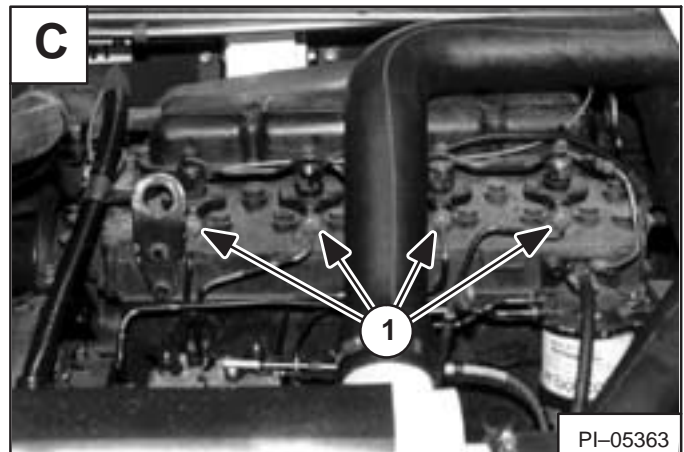
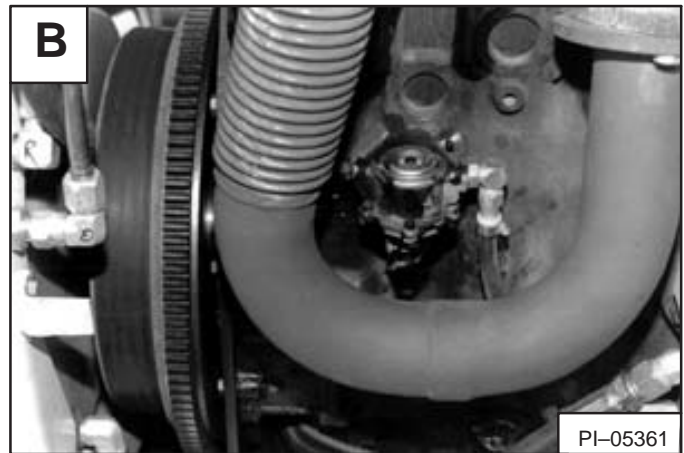
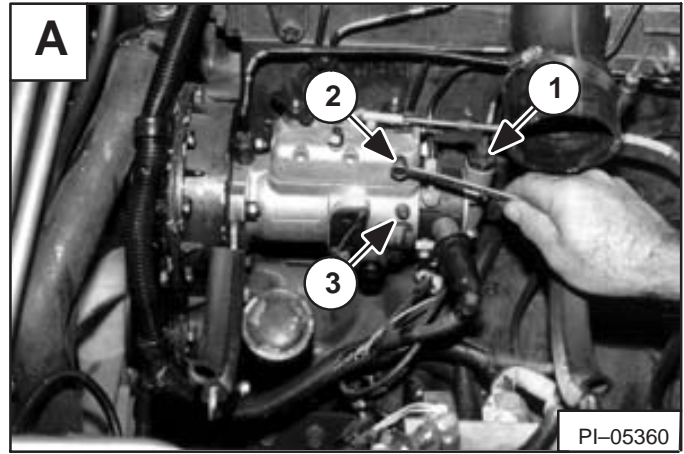


FUEL FILTERS (Cont'd)

Removing Air From The Fuel System

After replacing the final fuel filter or when the fuel tank has run out of fuel, the air must be removed from the fuel system.

1. Loosen the inlet fuel line (Item 1) **[A]** from the fuel injection pump.
2. Open the left rear access door. Operate the fuel lift pump lever **[B]**. Operate the lift pump until the fuel coming out of the inlet fuel line (at the injection pump) does not have any air bubbles. Tighten the inlet fuel line.
3. Open the top plug (Item 2) **[A]** and side plug (Item 3) **[A]** at the injection pump.
4. Operate the fuel lift pump lever **[B]**. When fuel flows with no air bubbles showing, tighten the vent plugs in the following order:
 - a. Injection pump side plug (Item 3) **[A]**.
 - b. Injection pump top plug (Item 2) **[A]**.
5. Loosen the four fittings (Item 1) **[C]** at the fuel injectors.
6. Move the throttle to 1/2 open position. Turn the engine with the starter until no air bubbles show at the fittings.
7. Tighten all the high pressure fittings at the fuel injectors.



FUEL LIFT PUMP

Checking

Disconnect the fuel shut-off wire from the fuel injection pump.

Install a gauge on the outlet side of the lift pump. Turn the engine, with the starter for 10 seconds.

STANDARD PRESSURE – 6 PSI (41 kPa)

MINIMUM PRESSURE ACCEPTED – 3.75 PSI (26 kPa)

Connect the shut-off wire.

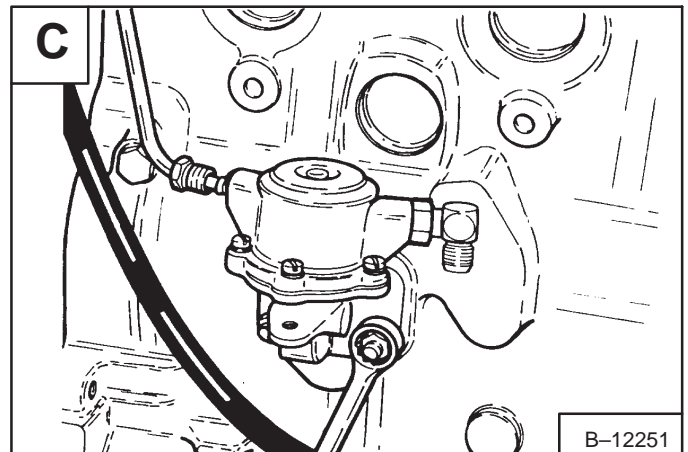
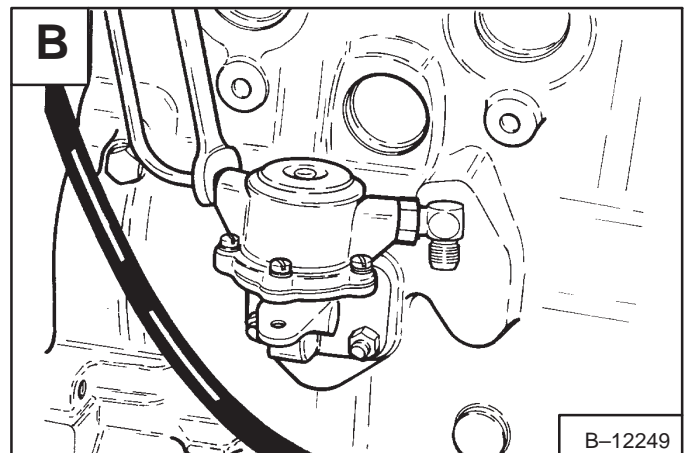
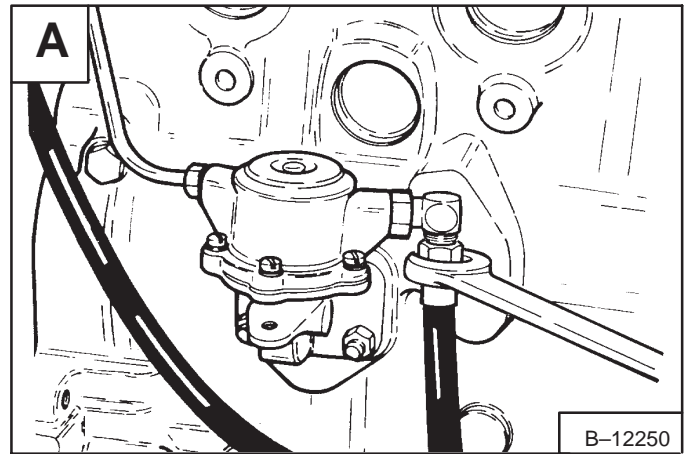
Removal And Installation

Disconnect the fuel in-let hose from the lift pump **[A]**.

Disconnect the fuel line going to the fuel filter **[B]**.

Remove the four nuts which fasten the fuel lift pump to the engine block **[C]**.

Remove the lift pump.



FUEL INJECTION PUMP

The injection pump contains parts which have a very close tolerance and its operation has a direct effect on the performance of the engine.

IMPORTANT

Do not attempt to maintain or adjust unless you are trained and have the correct equipment.

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Removal And Installation

Disconnect the throttle linkage.

Disconnect the wires from the fuel shut-off solenoid [A].

Disconnect the high pressure line from injection pump [B].

IMPORTANT

Do not bend the high pressure fuel injection tubes when removing or installing them.

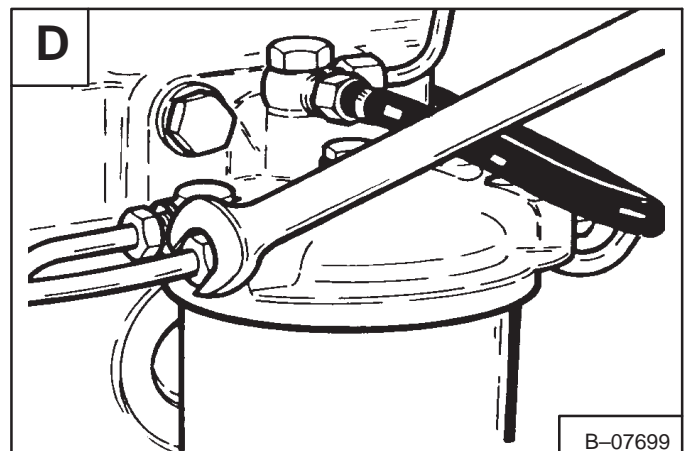
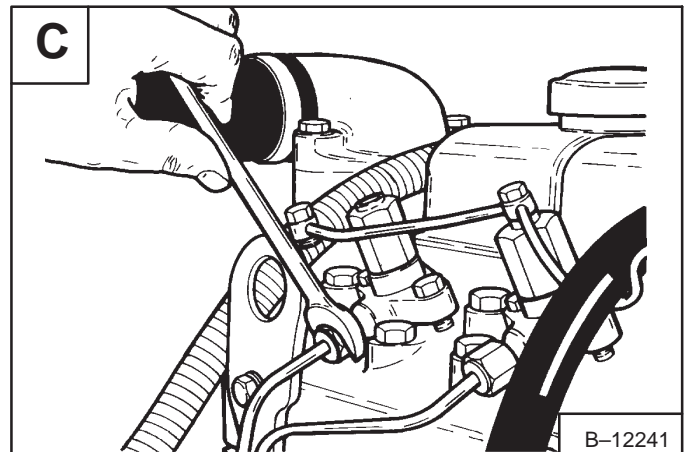
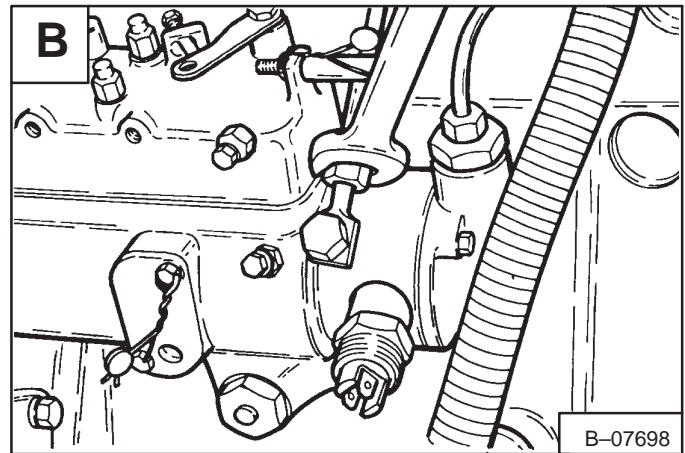
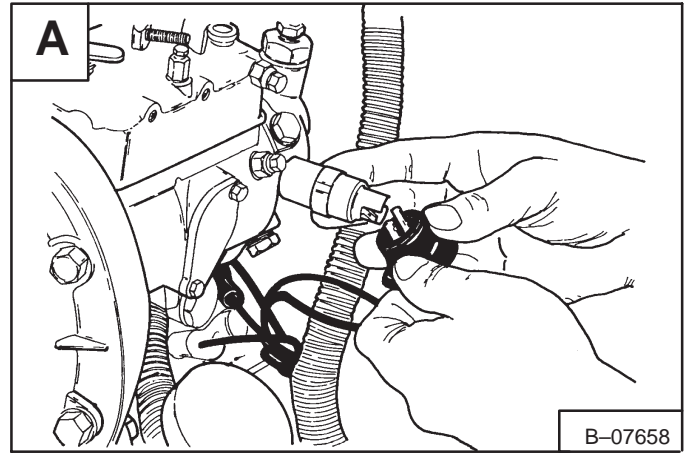
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Disconnect the high pressure tubelines from the fuel injectors [C].

Remove all the high pressure tubelines.

Installation: Tighten the high pressure fittings to 15 ft.-lbs. (20 Nm) torque.

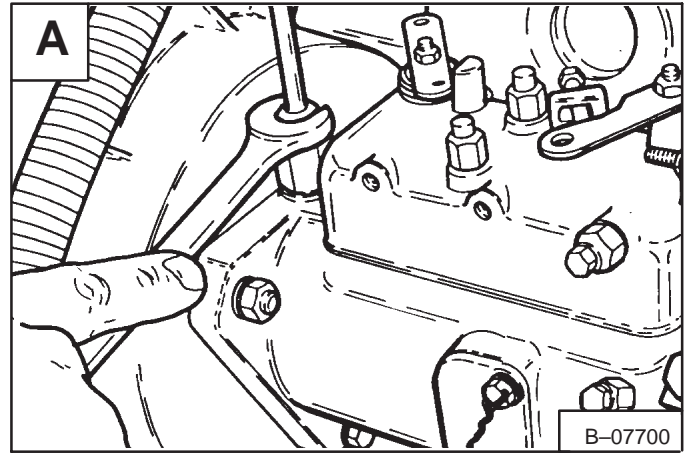
Disconnect the low pressure tubelines from the fuel filter and injection pump [D].



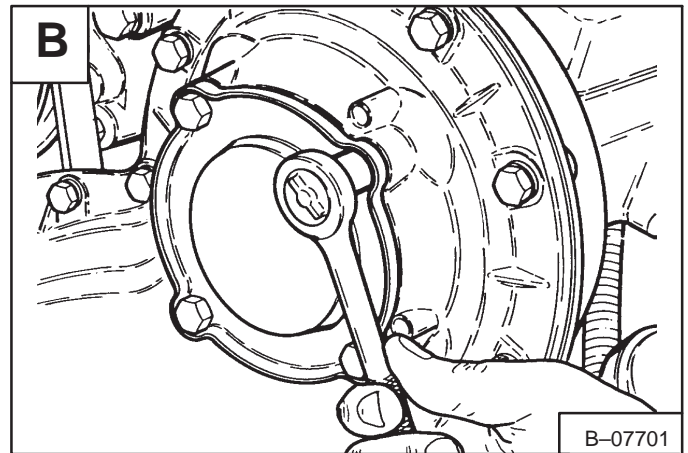
FUEL INJECTION PUMP (Cont'd)

Removal And Installation (Cont'd)

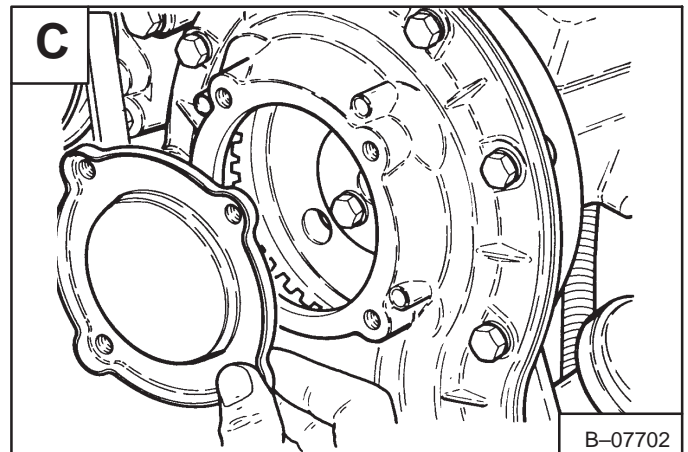
Disconnect the return tubeline from the injector pump [A].



Remove the bolts from the timing case cover [B].

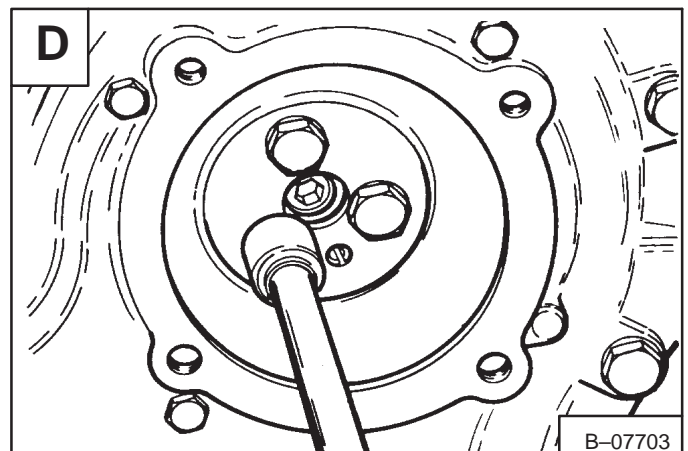


Remove the cover [C].



Remove the three bolts from the gear from the injection pump [D].

Installation: Make sure the injection pump shaft is in correct alignment with the dowel pin.

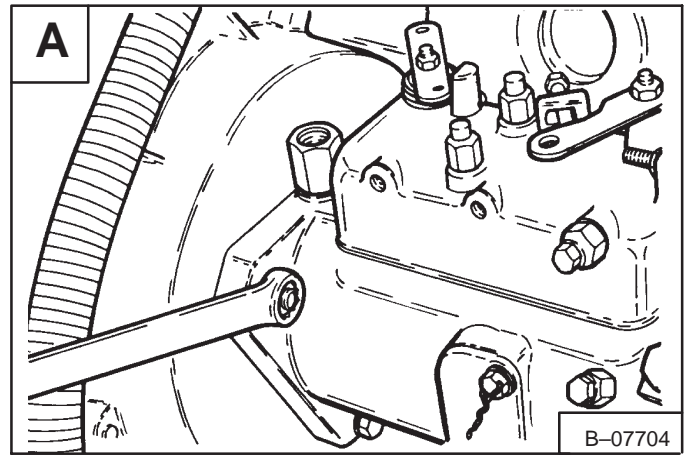


FUEL INJECTION PUMP (Cont'd)

Removal And Installation (Cont'd)

Remove the mounting nuts and washers [A].

Installation: Before tightening the nuts, make sure the timing marks are in correct alignment.



Remove the injection pump [B].

Installation: After the injection pump is installed, the air must be removed from the fuel system. (See Page 7-4.)

