

Replace Fuel Supply Pump (Rotary Fuel Injection Pump)

1. Disconnect fuel lines and plug both connections on fuel pump and fuel lines.
2. Remove cap screws (A) and lift out fuel pump.

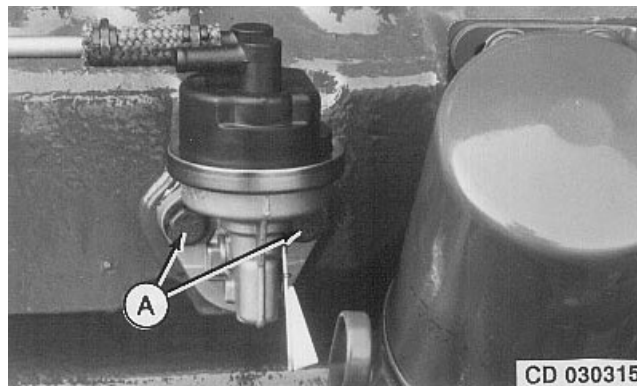
NOTE: Fuel pump is not repairable, replace if defective.

3. Install new gasket.
4. Apply sealing compound on thread of cap screws and attach the fuel pump to cylinder block. Tighten to specification.

Specification

Fuel pump-to-Cylinder block, cap screws—Torque..... 30 N•m (23 lb-ft)

5. Reconnect fuel lines and bleed fuel system.



Fuel Supply Pump (Rotary fuel injection pump)

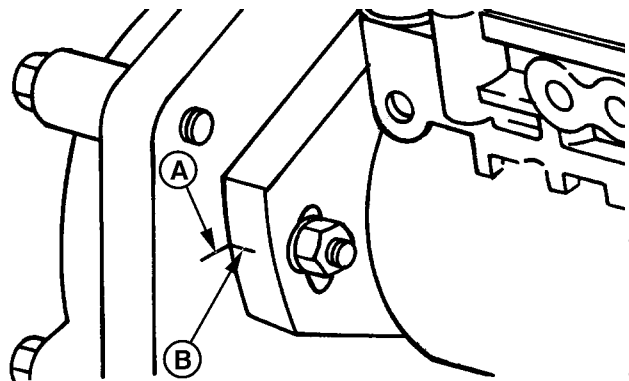
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CD,CTM125,189 -19-06SEP04-1/1

Remove STANADYNE DB2 or DB4 Fuel Injection Pump

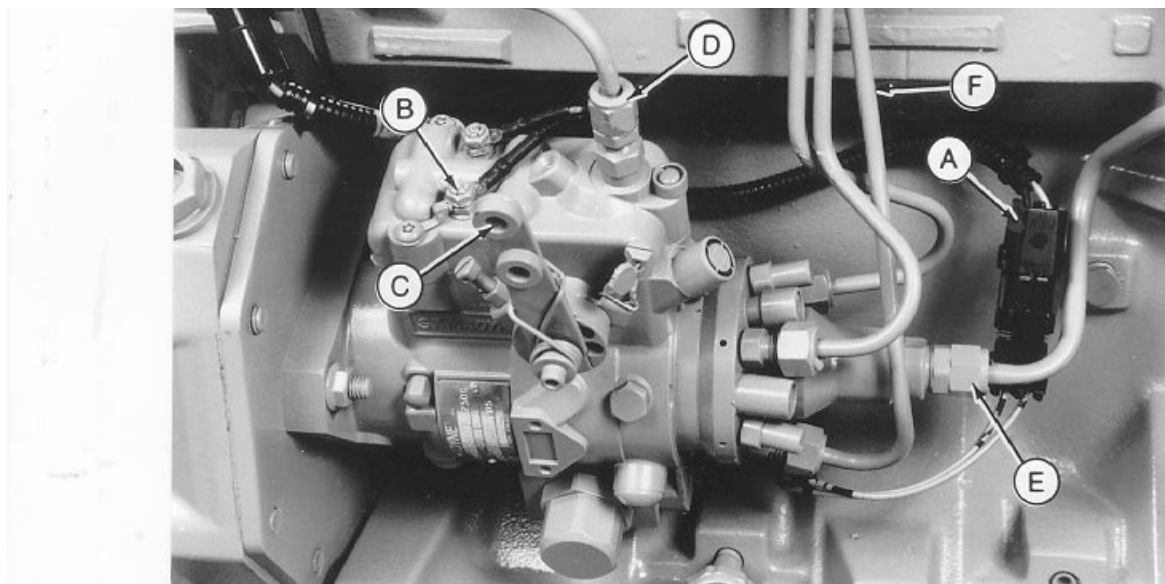
IMPORTANT: Never steam clean or pour cold water on a fuel injection pump while the pump is running or while it is warm. Seizure of internal component can occur.

1. Clean fuel injection pump, lines and area around pump with cleaning solvent or a steam cleaner.
2. Check for the presence of timing marks on front plate (A) and injection pump flange (B). If necessary, mark both the pump and the front plate.



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3. Disconnect the following elements:

- cold start advance system (A)
- shut-off system (B) and speed control linkage (C)
- fuel return line (D)
- fuel supply line (E)
- fuel injection lines (F)

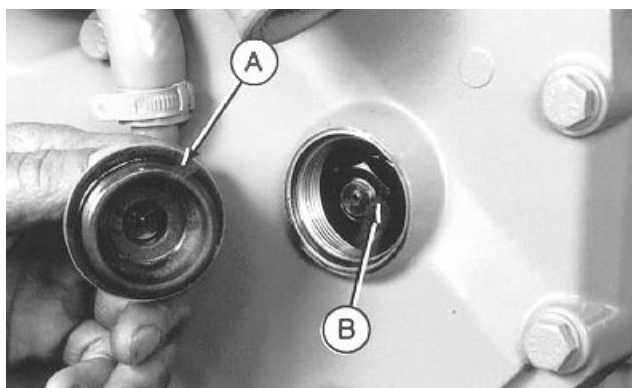
IMPORTANT: Always use a backup wrench when loosening or tightening fuel injection lines at injection pump to prevent rotation of the discharge fitting.

4. Plug all open connections on pump and fuel lines. Do not use fibrous material.

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5. Remove plug (A) from mounting hole in timing gear cover.

6. Remove nut (B) and washer securing the fuel injection pump drive gear to pump shaft.



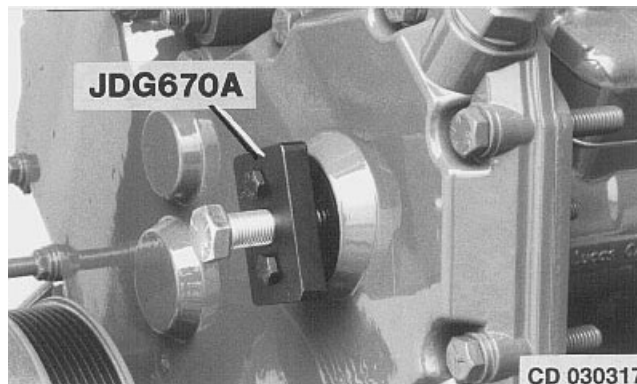
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7. Attach special tool JDG1560 (or JDG670A)¹ to gear. Remove the three nuts holding fuel injection pump to engine front plate.
8. Turn cap screw of special tool clockwise until pump shaft is loosened from conical seat of drive gear.
9. Remove center forcing screw from pulling tool and tighten the two screws of the tool until gear is pulled against cover. This will avoid that gear becomes disengaged from upper idler gear.
10. Pull fuel injection pump backward from the three studs.

NOTE: When removing fuel injection pump, be careful not to lose the pump shaft Woodruff key.



Special Tool JDG670A shown

¹JDG670A is no longer available. Order JDG1560.

Repairs to STANADYNE Fuel Injection Pump

To comply with the exhaust emission regulations, for which this engine may be certified, the repair or adjustment of the injection pump can be only performed by an Authorized Stanadyne workshop.

Only complete injection pump is available for service. When injection pump need to be replaced, perform a dynamic timing during installation on engine.