

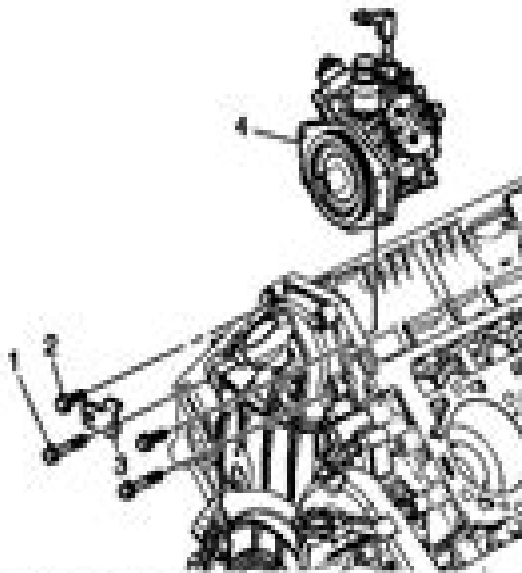


Fig. 121: View of Fuel Injection Pump & Bolts
Courtesy of GENERAL MOTORS COMPANY

NOTE: The fuel pump must be correctly timed to the camshaft gear.

1. Rotate the crankshaft until the fuel injection pump gear timing marks are aligned with crankshaft gear timing marks.
2. Remove the fuel injection pump bolts (1) and (2).
3. Remove the turbocharger cooler return pipe bracket (3).
4. Remove the fuel injection pump (4).

NOTE: If any metal debris is found, replace the following components: fuel injection pump, fuel rails, fuel injectors, fuel return line assembly, all high pressure fuel pipes, indirect fuel injector and fuel feed pipes (pump to indirect fuel injector).

11. Remove the fuel pressure regulator and inspect for metal debris on the seal of the regulator tip.

Installation Procedure

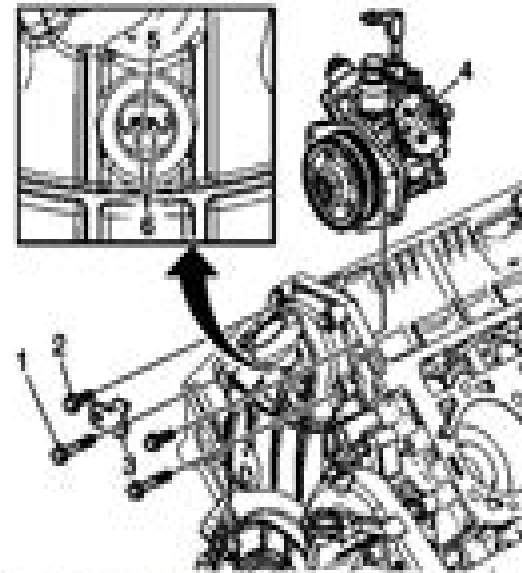


Fig. 122: Identifying Turbocharger Cooler Return Pipe Bracket & Bolts
Courtesy of GENERAL MOTORS COMPANY

NOTE: The fuel pump must be correctly timed to the camshaft gear.

1. Rotate the crankshaft to align the crankshaft gear timing marks with the center of the inspection hole.
2. Lubricate the O-ring on the fuel injection pump adapter with engine oil.
3. Install the fuel injection pump and adapter assembly (4) so that the timing mark on the fuel pump gear (1) is aligned with the timing marks on the crankshaft gear (6).
4. Install the turbocharger cooler return pipe bracket (3).

CAUTION: Refer to Fastener Caution.

5. Install the fuel injection pump bolts (1) and (2) and tighten to 21 N·m (15 ft·lb).

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