



MIDWEST FUEL INJECTION METRO FUEL INJECTION

FSD COOLER

Installation Instructions

The term FSD (Fuel System Driver) is used in place of PMD (Pump Mounted Driver, Stanadyne PIN 34583), because of the relocation of the device from the side of the pump to the intake manifold.

1. Remove the plastic manifold cover by removing four bolts. We recommend that the plastic cover not be reinstalled. The removal of the cover improves the cooling of the upper part of the engine and makes the fuel filter accessible for service. If you do reinstall the cover, it can be modified to fit by cutting.
2. On driver's side, remove the two bolts connecting upper and lower intake manifold.
3. On the driver's side, disconnect the FSD wiring harness connector from the injection pump mounted FSD – disengage the locking device of the connector and push it off using a screwdriver or other suitable tool. Pull up the wiring harness connector – use a piece of shaped steel wire.
4. Mount the supplied washers and the supplied screws – convex side facing up. Place the supplied heat transfer pad on the FSD and insert the screws with washers into the FSD. With the FSD connector facing towards the FSD Cooler's mounting holes, align the screws with the holes in the FSD Cooler and tighten to 2.75 Nm (23 lb. In) – do not over tighten the screws. The cooling capacity can be improved even further by removing the two plastic covers located in the recessed sections of the FSD. Pry gently at the edge of the covers – use a screwdriver or other suitable tool.
5. Install the resistor provided with the FSD Cooler Kit in the FSD connector – carefully use two small screwdrivers or other suitable tool.
6. Connect the FSD wiring harness connector to the new FSD.
7. Mount the FSD cooler to the intake manifold. Use the bolts supplied and tighten to 23 Nm (17 lb. Ft.)

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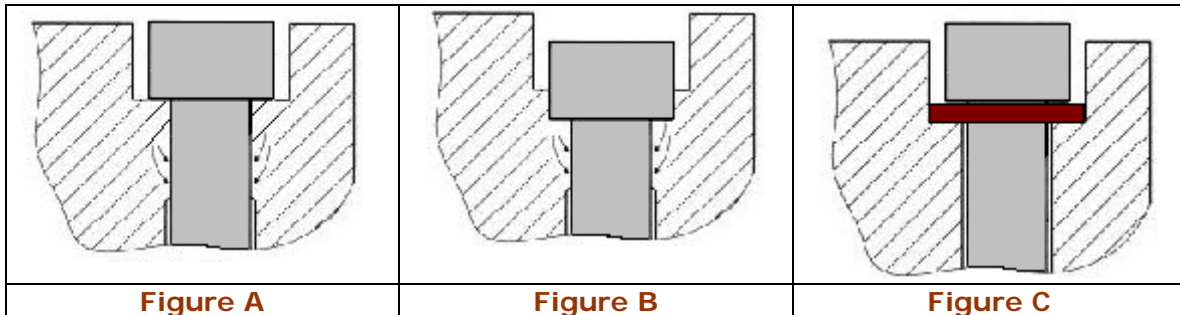
Hours: Monday-Friday 8am-5pm
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Maintaining Proper Clamping Force And Heat Transfer Of The FSD



The figures above show section through the center of FSD mounting holes

- Figure A shows an FSD mounting screw as originally installed. The thrust surface is only 11mm. The thrust force is larger than the FSD's plastic material can handle. The screw slips right into the mounting hole of a new FSD.
- Figure B shows what has happened to a defective FSD. The screw has sunken in and lost most of its tension. The clamping force of the FSD to the fuel injection pump is reduced to a minimum. The capability to transfer heat is dependent on the clamping force.
- Figure C shows the FSD properly connected to the FSD Cooler with a washer installed. The thrust surface is enlarged 2.3 times to 26mm.

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