

GF10855-1 ALT. B

Retro Fit of MFI (Multiport Fuel Injection) injector leg to Central SFI Fuel system.

This procedure outlines the steps required to replace the existing Central SFI Fuel Poppet injector leg with the newly re-designed MFI (Multiport Fuel Injection) injector leg. Be sure to use the appropriate year and model Service Manual for proper disassembly and reassembly procedure(s). Be sure to properly depressurize the fuel system before proceeding. Extinguish all sources of flame.

NOTE: Central SFI denotes the Fuel System commonly known as SCPI (Sequential Central Port Injection).

Installation Instructions:

1. Depressurize the fuel system by disabling the vehicles fuel pump and crank the engine till it runs out of fuel. Consult Service Repair Manual for proper procedure.
2. Disconnect negative ground terminal from the battery.
3. Remove Upper Intake Manifold cover and SCPI Fuel Meter Body according to Service Repair Manual procedures.
4. Remove and discard the lower hold down plate on the Fuel Meter Body unit.
5. Remove the defective SFI injector from the Fuel Meter Body unit by pulling downward on the tube; and with a small screwdriver, push down on the injector through the sight hole between the injector terminals until the unit comes out.
6. Apply a coat of clean motor oil or non silicone lubricant to the new MFI injector o-rings for easier installation.
7. Install the MFI injector leg into the Fuel Meter Body unit. Make sure the injector terminals are properly aligned in the slots before fully securing injector into Fuel Meter Body unit.
8. Install new lower hold down plate supplied with replacement injector on Fuel Meter Body unit. See Figure 1.
9. Insert the SFI Fuel Meter Body into the Fuel Meter Body Bracket on the Lower Intake Manifold being careful not to bind the Fuel Tubes. Push down firmly on the fuel meter body locking it into the bracket.
10. Orient the fuel tubes to coincide with their corresponding cylinder. The fuel tubes are numbered on the side of the fuel meter body and the corresponding cylinder number is cast in the intake manifold.
11. Apply a coat of clean motor oil or non silicone lubricant to the injector tip for easier installation.

NOTE: Injector Tips do not require o-rings for proper sealing.

12. Insert the fuel tubes into the correct hole in the Lower Intake Manifold. See below instruction for proper installation sequence.

For 6cyl SFI unit installation:

- First insert the number 3 injector into the correct hole in the Lower Intake Manifold.

NOTE: The number 3 Fuel Tube must be positioned behind the number 1 Fuel Tube to eliminate interference with the Upper Intake Manifold plenum when installed. See Figure 2.

- Then install the number 5 injector next, followed by number 1 injector.
- Injectors 2, 4, and 6 are then installed.

For 8cyl SFI unit installation:

- Install tubes for cylinders 1, 3, 6 and 8 making sure that the injector electrical connectors are facing in toward the center of the manifold.
- Insert fuel tubes for cylinders 2, 4, 5 and 7 in the same manner.

NOTE: When installing fuel tubes it is important that the tubes are oriented properly to provide minimal interference when installing the upper intake manifold plenum. Intake holes for cylinders 2, 4, 5 and 7 are closer to the fuel meter body. It is necessary to cross tube 5 over tube 7 and tube 4 over tube 2 as shown in Figure 3.

13. Insure that the electrical connectors of the injectors are positioned so that they do not interfere with each other and are pointing towards the center of the Intake Manifold. If necessary, rotate the electrical connector's inboard.

14. Temporarily reinstall the Fuel Inlet and Return Lines into the Fuel Meter Body.

NOTE: Lubricate the Fuel Inlet and Return Lines with clean engine oil or a non silicone lubricant before inserting them into the Fuel Meter Body.

15. Reconnect the battery and enable the vehicle's fuel pump.

16. Perform a Fuel Pressure System check to verify that the injectors are not leaking. **DO NOT ATTEMPT TO CRANK THE ENGINE OR START THE VEHICLE.** Consult Service Repair Manual for proper Fuel Pressure check procedures. If fuel pressure is not held, find the cause of the problem and correct it at once. Failure to do so can result in engine damage.

17. Depressurize the fuel system and remove the fuel lines from the Fuel Meter Body. Lubricate the Fuel Meter Body Upper Manifold O-ring (orange in color) with clean engine oil or non silicone lubricant.

NOTE: Lack of lubrication will make installation of the Upper Intake Manifold cover difficult and may cause damage to the O-ring.

18. Replace the Upper Intake Manifold cover gasket with a new gasket. Reinstall the Upper Intake Manifold cover and Fuel lines, follow the procedures outlined in the Service Repair Manual.

NOTE: Make sure that the Fuel Line Retaining Bracket is properly oriented with the tabs down.

FIG. 1

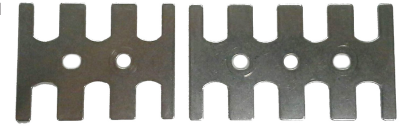


FIG. 2



FIG. 3

