



FITTING INSTRUCTIONS FOR

MFK6823, MFK683 and MFK1410

FUEL PUMP AND SURGE TANK KITS

Thank you for purchasing a product manufactured by Marks 4WD Adaptors. The following instructions are intended as a guide. We recommend that you purchase a service manual pertaining to your vehicle for specific torque values, wiring diagrams and other related information.

Diesel and leaded Fuel System Changes

1. If your vehicle originally ran on either super (leaded) grade petrol or diesel.
2. Remove the bash pan under fuel tank (if required to gain access to the drain plug) and drain the fuel tank.
3. Remove the filler neck from fuel tank.
4. Cut the original filler neck near the top and weld in a ULP restrictor flap. **NOTE:** A complete second hand filler neck from a petrol model could be used.
5. Re-weld the filler neck, paint and refit it to the vehicle.
6. Affix " **UNLEADED FUEL ONLY** " sticker to the inside filler cap access door.
7. Reinstall the fuel tank drain plug and bash pan.

Fuel Pump System

MFK683

NOTE 1: The fuel hose supplied in the following kit is special high pressure EFI hose and should not be substituted with any hose having a lower pressure rating.

NOTE 2: Use Teflon thread sealer on all fittings.

NOTE 3: The high pressure fuel system is regulated by the vacuum controlled pressure regulator located on the engine fuel rail. The fuel return pipe/hose usually comes from this regulator.

1. Fit the low-pressure lift pump to the bracket on the side of the surge tank. Secure it using the two M6x10 stainless bolts and spring washers supplied in the kit.

2. Fit one of the straight 5/16" barb fittings to the intake side of the pump (the side with the long snout).
3. Fit one of the 90 degree 5/16" barb fittings in the outlet of the pump facing the top of the surge tank.
4. Fit the surge tank on the side of the chassis rail near the fuel tank with the fuel pump inlet facing the fuel tank. Secure it using the bracket, hose clamps and bolts supplied.
5. Fit the pick up with the 1/2" outlet into the top of the surge tank with the outlet facing the front of the car where the high-pressure pump is going to be mounted.
6. The two holes that are close together in the top of the tank require two 90-degree fittings to be fitted.
7. First use another one-piece fitting and face it to the front of the vehicle as per the 1/2" outlet.
8. Second use the two piece fitting and face it toward the outlet on the lift pump. Use a short piece of 5/16" fuel hose and two clamps to connect them together.
9. Fit the last 90-degree fitting facing the fuel tank. This is the return back to the fuel tank. Connect the original rubber return line to this fitting.
10. Connect the original rubber fuel supply line to the inlet of the lift pump.
11. Connect the return line from the engine to the 90-degree fitting facing the front of the vehicle. **See Photo**
12. Fit the new high-pressure fuel pump (supplied in the kit) to the fuel pump mounting bracket part no. MFC684 & MFC683. Fit the assembly to the inside of the chassis rail. Secure it using the nutserts and bolts supplied. Make sure the fuel pump earth wire is connected to a mounting bolt that will provide a good earth. **See Photo Note:** Fit the high-pressure fuel pump as close as possible to the surge tank to prevent cavitation.





13. Fit the new fuel filter using the bracket part no. MFC682, the 46-70 mm hose clamp, and screws supplied. It must be mounted after the high-pressure pump. ***NOTE:*** The filter must be facing the correct way, check the direction label on the side of the filter.
14. The 1/2" surge tank outlet is connected to the inlet of the high-pressure fuel pump using the hose and clamps supplied in the kit.
15. The outlet of the high-pressure pump is connected to the inlet of the high-pressure filter using the fuel hose and clamps supplied in the kit.
16. The outlet of the high-pressure fuel filter is connected to the fuel rail on the engine using the hose and clamps supplied in the kit. ***NOTE:*** Use cable ties to secure the hose away from the front drive shaft and any heat.

The components supplied in the kit are designed for specific type conversions. Modifications to any components without the written consent from Marks 4WD Adaptors will void any possible warranty or return privileges. Should you have any further questions that are not covered in the instruction sheet, please contact our sales department for assistance.

Remember an inexpensive phone call can save a costly mistake!

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