



Mechanical Fuel Pump With Priming Lever

Installation Instructions

For: TR2-TR4A

PART# 377-000, 377-002

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Danger: Working with gasoline is hazardous to your health. Always use eye and skin protection. Work in a well ventilated area. Keep sources of ignition such as cigarettes and open flame away.

Caution: The cam lobe that the fuel pump lever rides on is not much wider than the lever itself. Failing to install the fuel pump according to these instructions could result in a damaged fuel pump and cam shaft.

Parts may vary slightly from figures.

Tools required:

- Various combination wrenches and sockets
- Assembly lube

Optional:

- Silicone (gasket maker)

- 1) Remove the old fuel pump from the engine and clean the gasket surface. Figure 1.



Figure 1

- 2) Before installing the fuel pump on the engine, the engine must be rotated so the cam shaft is in a suitable position to accept the pump. Out of 720 degrees of crank shaft rotation (2 full turns) only about 180 degrees are suitable for fuel pump installation.

The way to tell if the cam is in the correct position is to; offer up the new pump to the engine as if you were going to install it. If the gasket surfaces on the pump and engine touch without fighting spring pressure, the engine is in the correct position. See Figure 2.

If the lever is making contact with the raised portion of the cam, it will push the gasket surfaces apart. Do not attempt to install the fuel pump in this condition. **DO NOT SPIN THE ENGINE OVER WITH THE FUEL PUMP HELD ON BY HAND.** Figure 2.



Figure 2

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- 3) If the gasket surfaces will not touch, remove the pump and spin the crank shaft about 45 degrees. Try to offer the fuel pump to the engine again. Repeat this step until the gasket surfaces touch, or are less than 1/8" apart.
- 4) If you must, you can use a few cable ties to hold the primer lever up. See Figure 4. This will pull up on the cam follower lever slightly which will give a little more cam clearance. Just make sure to remove the cable ties once the pump is permanently installed. Figure 4.
- 5) Once the engine is rotated into the correct position, the fuel pump can be installed permanently. Make sure to put a little assembly lube on the finger of the fuel pump lever where it contacts the cam. If you'd like to smear a thin layer of silicone on the gasket do so now. Install the gasket and pump. Tighten the nuts down evenly so that the lever stays in good alignment with the cam.
- 6) Reconnect the fuel lines. Prime the fuel system by pulling up on the plunger.
- 7) Make sure to run the engine and check for fuel leaks before driving.



Figure 4

Although every effort has been made to ensure the accuracy and clarity of this information, any suggestions that you may have that will improve the information (especially detailed installation notes and photos) are welcome. These instructions were developed and written by Moss Technical Support. If you have any questions or difficulties with your installation of this product, telephone 800-667-7872 between 7:00 a.m. and 4:00 p.m., Pacific Time for assistance.

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