

## Mastercraft Fuel Pump replacement

### Parts required

Fuel pump – Napa - Airtex E2065 or E2044 - \$100

Fuel line – [www.apeusa.com](http://www.apeusa.com), 5/16" X 8" in tank fuel pump. Pics show white but mine was black \$4 plus shipping

Fuel Filter – local MC dealer - \$29

Fuel line clamps – Napa oilek style – 3/8" \$4 (maybe a smaller one for the top connection)?

### Tools:

Fuel line remover tool (\$10 @ Napa)



Allen keys or sockets (imperial)

Phillips screwdriver

Slot screwdriver

Side cutters

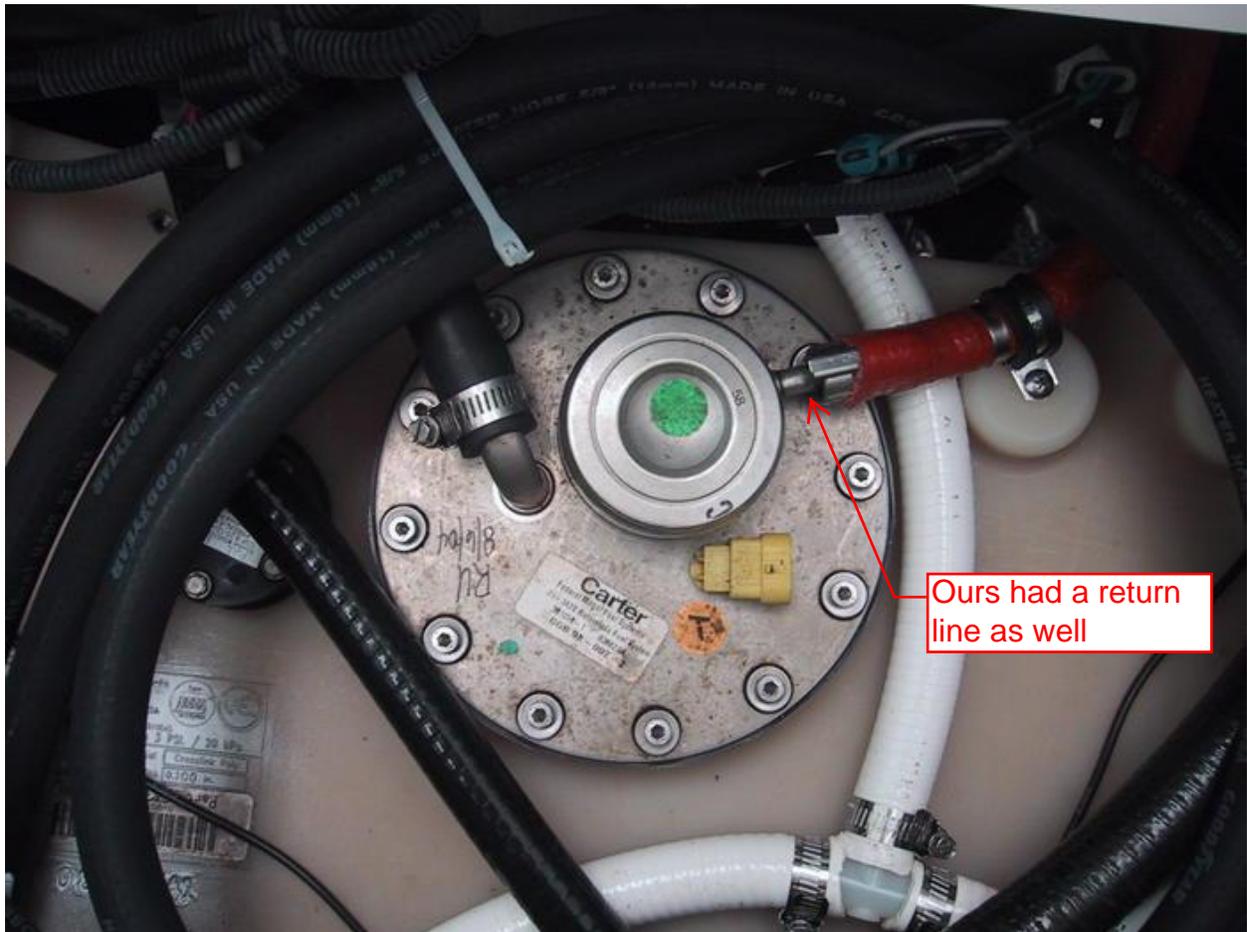
Bucket

Lid

Shaker siphon

Directions:

Remove items to uncover top of fuel tank



Disconnect fuel lines using tool. Push fuel line disconnect inside fitting and pull back hose at the same time

Unscrew socket head cap screws to remove pump assembly

Remove pump into bucket since it will have lots of gas

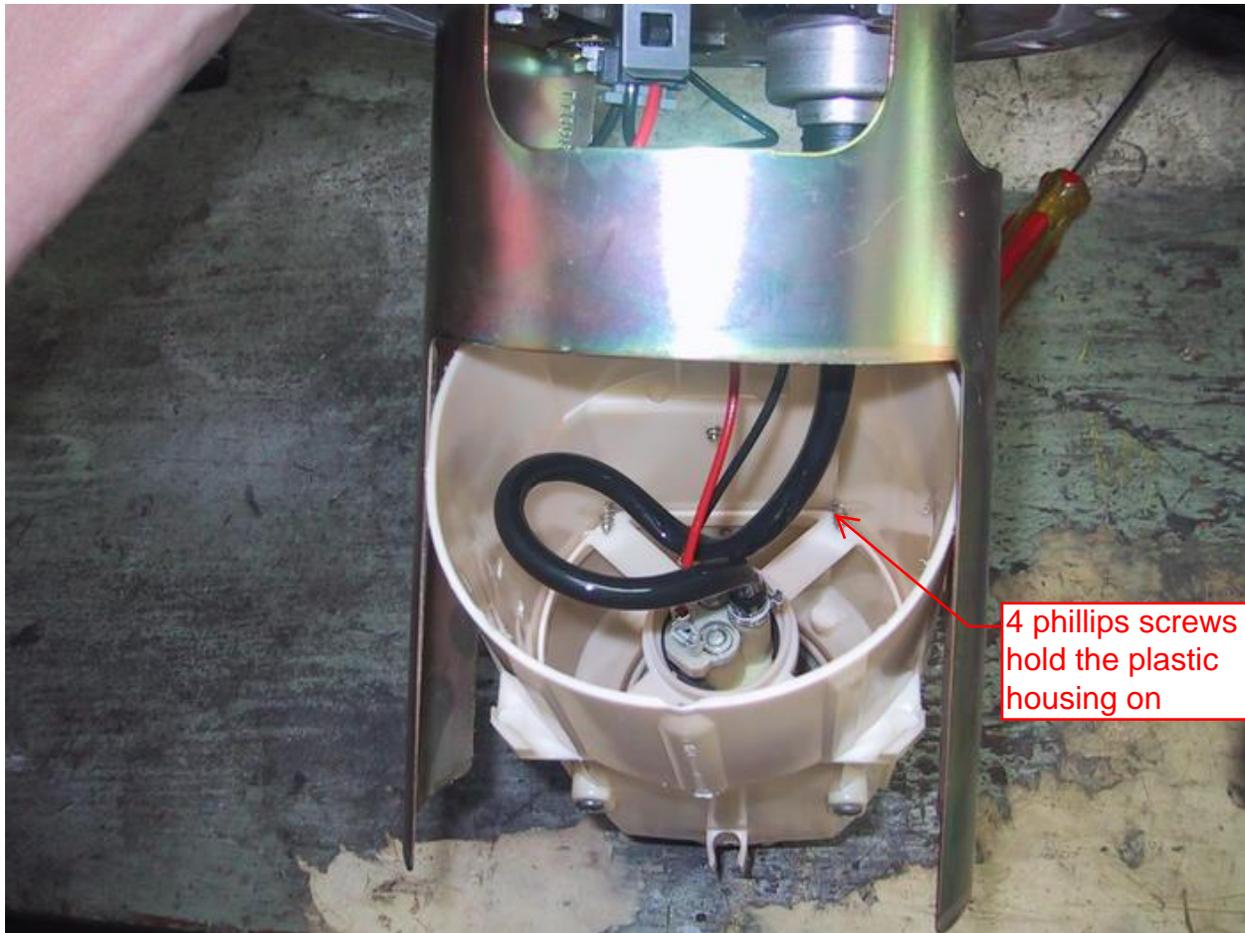


(mine had a spring between the upper and lower section)

Cover hole in tank with a lid

Disassemble fuel pump assembly (take note of all orientations)

- Bend out flanges to remove clips from lower assembly
- Unscrew 4 phillips screws to allow pump to drop down in assembly
- Remove spring



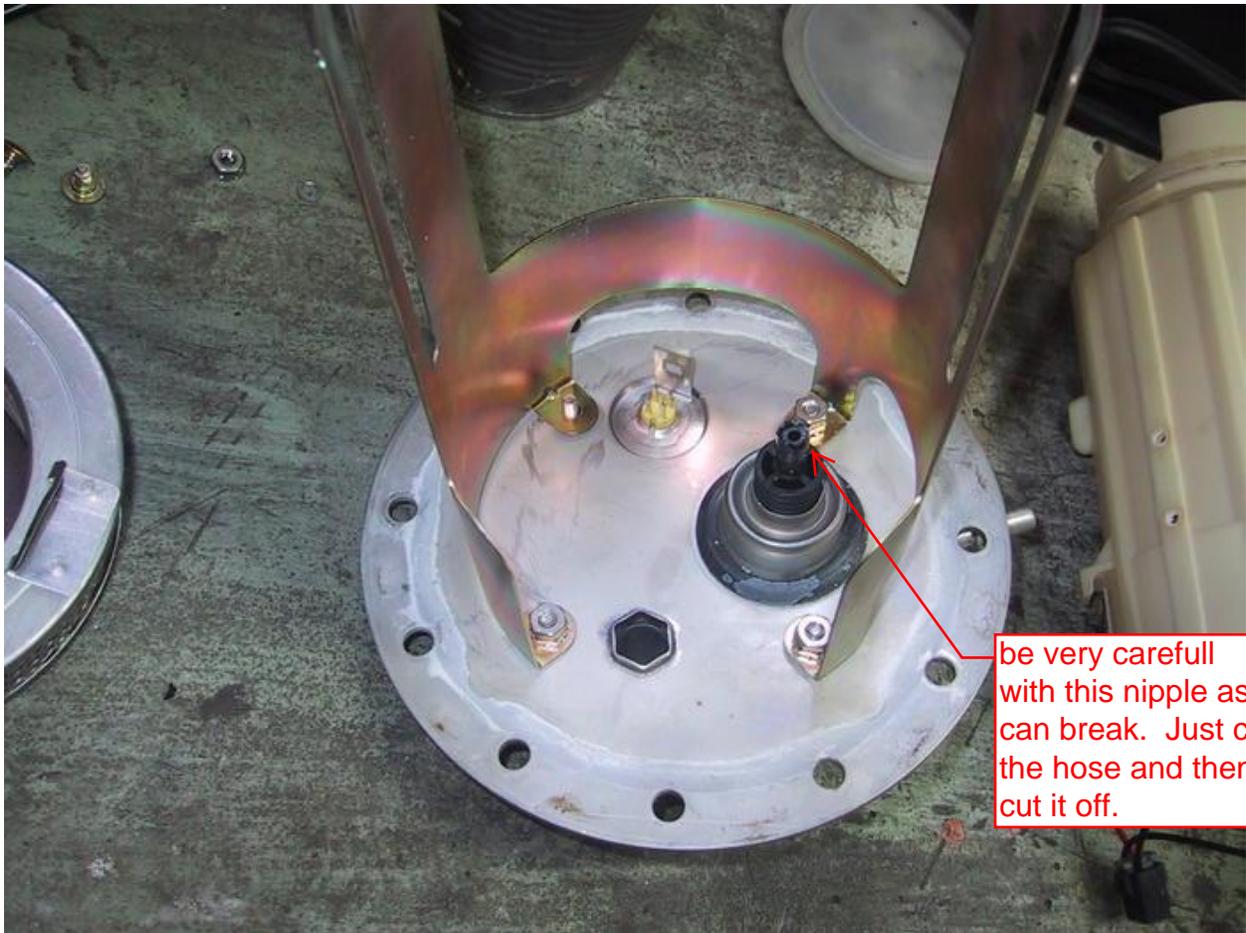
Clean lower pump assembly

Disconnect pump from electrical wires

Cut fuel line clamps

Remove fuel line from pump – our fuel line was rock hard and impossible to remove. I had to cut it off

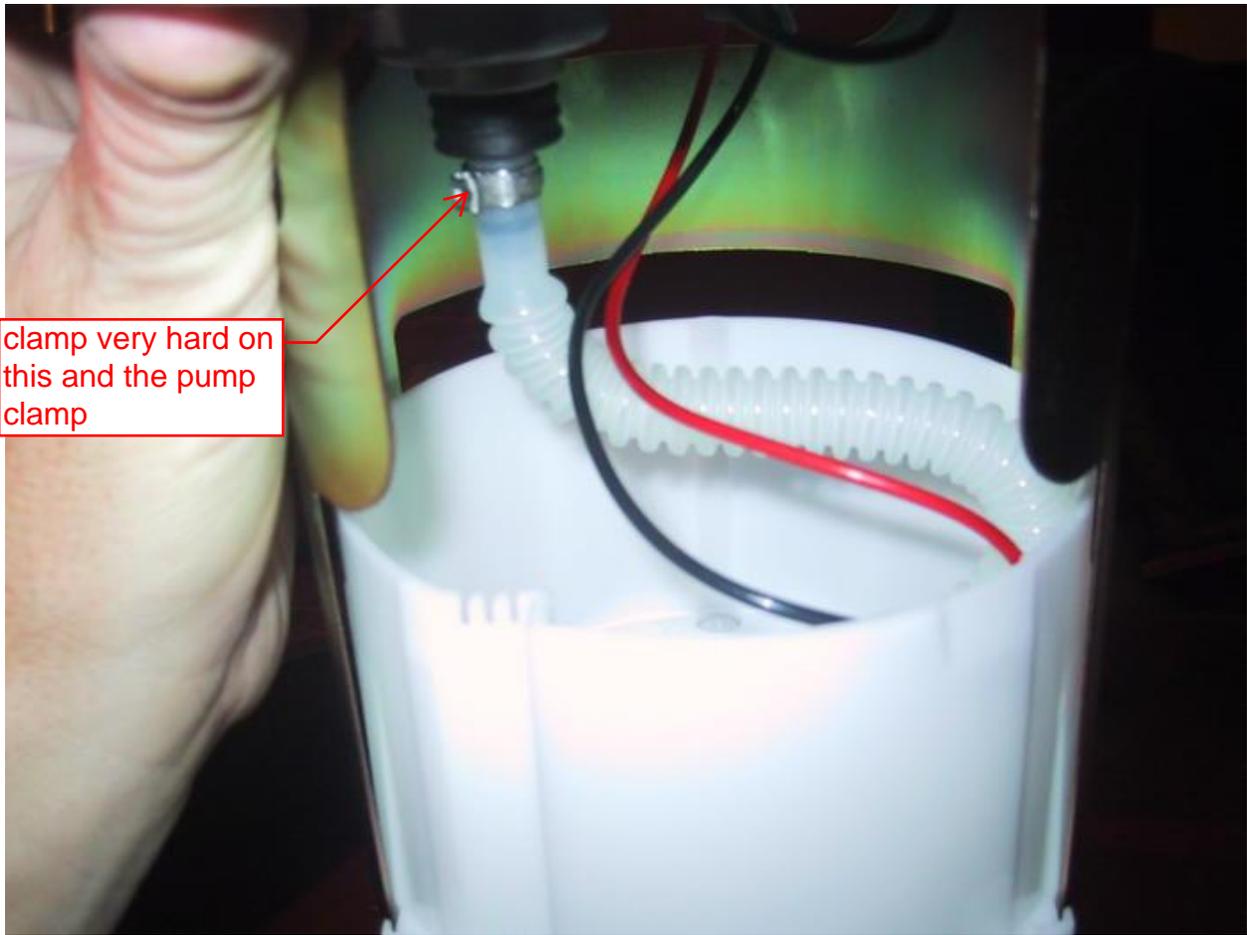
Remove fuel line from pressure regulator. This was again very hard. I had to cut it off again. Make sure the plastic insert into the regulator does not get pulled out since the nipple that protrudes from it can get cracked like mine since there is no support once it is pulled out.



Take large Oring and plastic flange off old pump and put on new pump.

Put the clamps on the fuel line and then put new line on fuel pump. My fuel line was tight and I had to lubricate it to get it on. Crimp the clamps very tight right under the barb. I used side cutters to crimps since I didn't have the right tool.

Put the clamp on the other end of the fuel line and put the fuel line on the pressure regulator nipple. In their wisdom, someone designed the two nipples to be different size. Therefore this one was loose. I clamped down as hard as I could and put a second clamp on for good measure



clamp very hard on  
this and the pump  
clamp

Reconnect electrical connections

Remove old fuel filter noting alignment and put on new filter



Transfer rubber flange from old pump suction to new

Reassemble pump assembly

Siphon fuel tank (I used a shaker siphon) and clean tank

Reinstall pump assembly and connect all hoses

Put gas in tank, prime the system and check for proper pressure.