

# Fuel Filter Adapter Installation

Read the complete installation instructions before you attempt to remove the Workhorse fuel filter and install the OEM Engineering adapter and AC Delco GF 652 filter.

Do to differences in OEM coach configurations and chassis modifications made by some OEMs the installation instructions may not match your chassis.

# Fuel Filter Adapter Installation

## Tools:

- 20 mm wrench – fuel filter nuts
- 5/8 SAE Flare wrench – fuel tubing nuts
- ½ inch wrench/socket - fuel line/filter hold down clamps
- 1 inch wrench – adapter block
- Adjustable (Crescent) wrenches
- A container to hold about a cup of fuel (what is in the filter).
- Disposable rags to wipe up any spilled fuel.
- Brake Parts Cleaner - optional

## Filter Location:

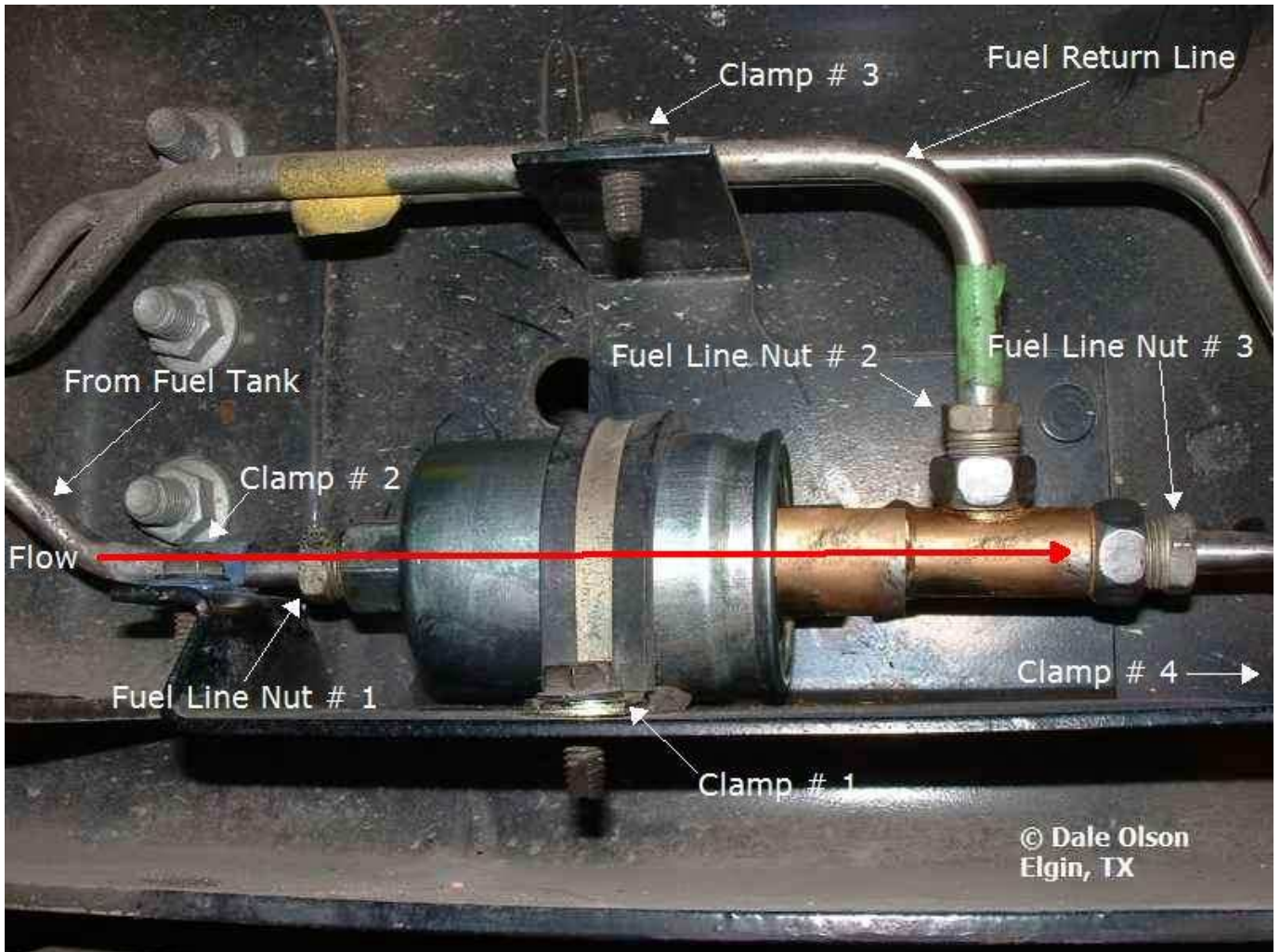
- "W" series - Drivers side frame rail behind the rear duals.
- "P32" series – Passengers side

## Process:

1. Bleed off the fuel rail pressure. Generally letting the motorhome set over night can do this.
2. Prep the adapter:
  - Remove the new filter and check the "O" ring.
  - Clean the adapter with brake cleaner – optional
  - Check your old filter for **fuel flow direction**.
  - Install the new filter to the adapter **checking the fuel flow direction** marked on the filter so that it matches your old filter.
  - Tighten the new filter to the adapter with the 20 mm wrench & 1" wrench or adjustable wrench.



3. With the  $\frac{1}{2}$ " wrench/socket remove the bolts from the hold down clamps starting with clamp #2, then # 3, then #4. Leave #1 tight until you are ready to remove the filter. This should lessen the amount of spilled fuel.



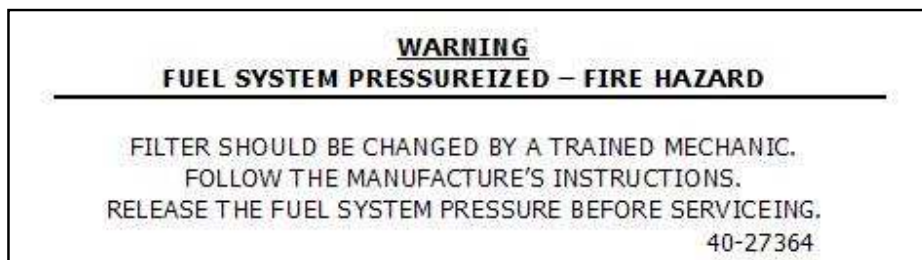
4. Using the 20 mm &  $\frac{5}{8}$ " Flare wrench to disconnect fuel line nuts starting with #2, then #3 and then #1.
5. Remove the #1 hold down clamp and remove the old fuel filter and cleanup any spilled fuel.
6. Remove the clamp from the old filter and install it on the new filter.
7. Check the "O" rings on the fuel fittings for damage and replace if necessary.
8. Install the new filter and adapter starting with fuel line nut # 3, #2 and #1. Just get the fittings started, do not tighten at this time.
9. Install the bolts in the hold down clamps. Just get the bolts started, do not tighten at this time.
10. Tighten the fuel fitting nuts and then the hold down clamps.
11. Recharge the fuel rail by turning on the key. Now check for leaks. If there are no leaks start the engine. Again check for leaks.
12. The install is complete.

## Notes:

- ❑ The "O" rings are Size #12 Viton® and under NORMAL conditions should not have to be changed. You get spares at any GM dealer.
- ❑ If you don't have metric wrenches or a 1" wrench you can use 2 adjustable Crescent wrenches.
- ❑ There are two Warnings sent with each adapter kit.
  - This warning is to let you know that the filter is attached to the adapter hand tight to facilitate shipping and MUST secured properly with a set of wrenches.



- This warning is supplied by AC Delco and needs no explanation.



## "W" Series Install Complete



## "P 32" Series Install Complete

