



General: These filters are intended to be used as a "polishing filter" to be located immediately before the carburetor. Their specific purpose is to head off the most serious safety consideration in the operation of the Universal Atomic 4 engine - that of carburetor flooding due to dirt getting under the needle of the float's needle and seat valve. The filter is considered especially useful if an old mechanical fuel pump is still in use, which can itself be a generator of small particulates from old valves, diaphragms, etc.

These kits are not intended to replace the need for a primary filter system on your boat. There should be a filter of larger capacity installed which should include provisions for trapping water.

For engines with mechanical fuel pumps:

Step 1 - Remove the copper tube and fittings from the mechanical fuel pump and carburetor.

Step 2 - Install the 1/8" pipe thread by 5/16" (90 degree) brass hose barb in the carburetor. Be sure to not over tighten the fitting into the carburetor. The 1/8" male pipe thread can quite easily crack the aluminum material of late model carburetors. Use the 1/8" pipe thread 90 **OR** 45 degree street-el and straight hose barb in combination in the mechanical fuel pump.

Step 3 - Use the 5/16" hose to locate the filter in the most convenient location possible between the fuel pump and carburetor. The end of the filter stamped with "in" should be installed toward the pump.

Step 4 - Use the small stainless hose clamps to secure the hose connections.

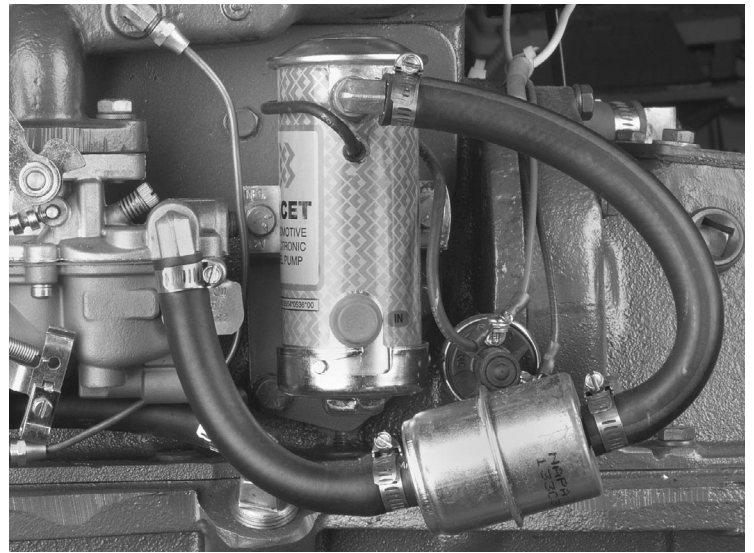
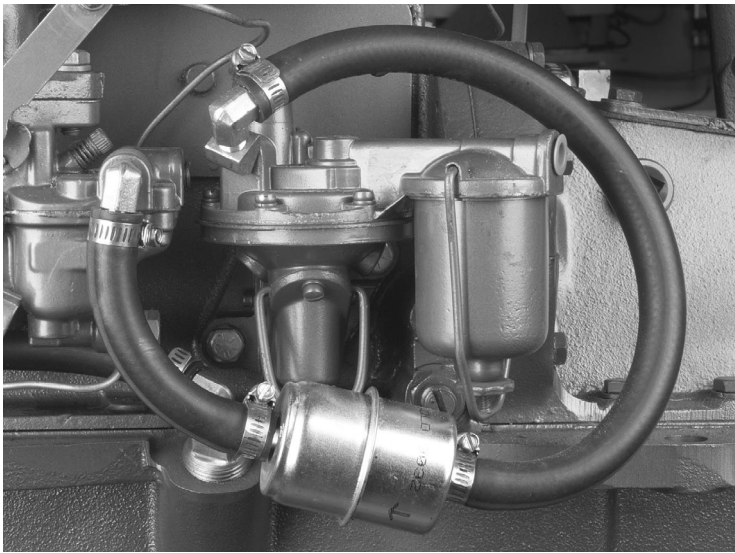
For engines with electric fuel pumps mounted on engine:

Follow the same steps as for mechanical fuel pumps.

For engines with electric pumps mounted on bulkhead:

Step 1 - If pump is connected to carburetor with a 5/16" hose, simply cut the hose between the pump and carburetor and install filter using four of the hose clamps provided.

Step 2 - If some other size hose was used, replace the fittings and hose with the 5/16" size provided in this kit.



Typical installations of this kit; left is with a mechanical fuel pump, right is with an electronic fuel pump.

Kit Contents

- (1.5') 5/16" Fuel Hose
- (4) Small stainless hose clamps
- (1) In - line fuel filter
- (1) 1/8" MNPT x 5/16" hose barb (90)
- (1) 1/8" MNPT x 5/16" hose barb (straight)
- (1) 1/8" 90 degree street - el
- (1) 1/8" 45 degree street - el