

# PartsWasherUpgradeKit.com - Instructions

Thank you for your purchase. To familiarize yourself with the components and installation procedures, please read these instructions, in their entirety, before starting your installation.

## Step 1) Lay out all parts in order to gain familiarity with each component

A. Drain Valve (1)



B. Oil Relocation Kit (1)



C. Fuel Rated Rubber Hose (5 ft)



D. Hose Clamps (5)



E. Grommets (2)



F. EPDM Vapor Seal (8 ft)



G. 90° Drop Angle (1)



H. 1/2" to 1/4" reducer (1)



I. Spin-on oil filter (1)



J. MNPT to Barb fitting (1)



K. Aluminum Tape (1 ft)



## Step 2) Installing the drain valve (Part A)

Remove the drain valve plug on the bottom of the parts washer tub and install Part A (drain plug valve) into the threaded hole. For all threaded connections required for this kit, use Teflon tape or putty (or the thread sealant of your choice). Position the valve so the yellow handle is in a comfortable position for use.

## Step 3) Removal of flexible metal spray nozzle assembly & installation of barb fitting (Part J)

Unscrew the entire flexible metal spray wand assembly as its base from the pump assembly. Install Part J (MNPT to barb fitting) in place of the spray wand assembly.

#### **Step 4) Mounting Oil Filter relocation bracket (Part B)**

The oil filter relocation bracket kit is comprised of several components: the aluminum bracket; the inlet and outlet fittings (MNPT to barb), the oil filter center mounting post, and three self-tapping screws. Install the two MNPT to barb fittings in the threaded holes marked "In" and "Out" (both fittings are identical). Screw the threaded post into the hole on the bottom center of the oil filter mounting face. Do not install the oil filter now.

Install the bracket on the right side of front right leg of the parts washer as shown below (fittings not shown):



You can remove one of the bolts that attach the leg to the washer unit, using it as one of the three mounting points for the bracket, and then use 2 of the 3 self-tapping screws provided with the kit, or use your own bolts and nuts.

#### **Step 5. Install the reducer (Part H) into the 90° drop ear fitting (Part G)**

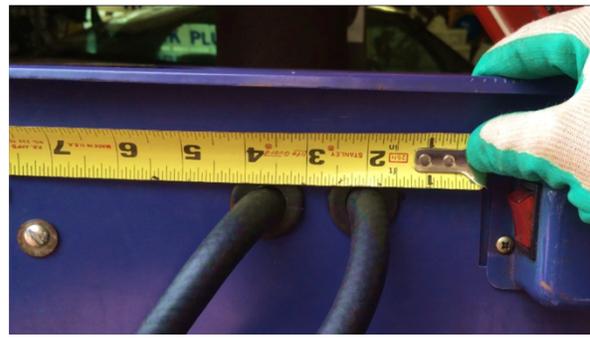
Install the brass 1/2" to 1/4" reducer (**Part H**) into the threaded outlet on the 90° drop ear fitting (**Part G**).

#### **Step 6. Mounting 90° drop ear fitting (Part G)**

The 90° drop ear fitting is mounted to the inside of the washer tub. To mount the fitting, hold it on the right side of the tub with the barb pointing to the rear of the tub. Position the fitting so that it is low enough to not be hit by the lid when closed and far enough back so the fitting is completely resting on the flat side wall, not on the curved corner wall, of the tub. Mark the positions of the three mounting holes and drill. Use three bolts/nuts (not supplied) to mount the fitting.

#### **Step 7. Drilling the holes for the grommets (Part E)**

Use a step drill or hole saw to drill two 7/8" holes in the side of the washer tub for the hoses that carry the solvent to and from the oil filter. The centers of the holes should be 2.25" below the top lip of the washer tub with the rearmost hole approximately 2" to the front of the rectangular motor housing opening in the side of the tub and the second hole approximately 1.75" to the left (front) of the first hole (see pics below). Install the grommets.



### **Step 8. Installing the hoses (Part C) and hose clamps (Part D).**

The 5-foot piece of fuel grade hose will need to be cut into three sections. **Before making any cuts,** push one end of the hose through the rear grommet from the outside of the tank and slide a hose clamp over the end. Then push the hose onto to the barb (**Part J**) at the base of the pump. Using a dab of grease on the barb will help seat the hose. Position and tighten the hose clamp. Straighten out the hose hanging out of the grommet and mark the length that will be required to attach the hose to the “**IN**” barb on the filter bracket. Do not kink it. Cut the hose to length. Slide a hose clamp over the end. Due to the large size of the fittings on the oil relocation bracket, you will need to heat the end of the rubber hose to get it to slide over the barb. [The large fittings were selected to limit restriction of the solvent flow.] Use a heat gun or electric hair dryer. Grease will help it slip on. Position and tighten the hose clamp. For the second hose, repeat all these steps for the first hose, beginning with the hose attached to the rear-facing barb on the 90° drop ear fitting (**Part G**) and measuring the length of hose required to reach to the “**OUT**” barb on the filter bracket. This hose makes a 180° bend as it passes through the grommet so provide enough length to avoid a kink. Attach the remaining third section of hose to the previously installed drain valve barb using the last hose clamp.

### **Step 9. Installing the oil filter (Part I).**

Install the spin-on filter (**Part L**) to the filter bracket. Using a dab of motor oil on the seal. Don't over tighten. **Step 10. Installing the aluminum tape to seal the washer above the pump hanger**

Locate the open slot just above the pump mechanism on the side of the washer tub. Take the aluminum tape (**Part K**) and cut it in half. Use one piece to seal the open slot from the outside and the second piece to seal the slot from the inside.

### **Step 11. Installing the vapor seal (Part F) on the lid of the parts washer**

If your parts washer is used, thoroughly clean the surface where the vapor seal will go. Unroll the EPDM vapor seal (**Part F**). Begin by closing the top and taking a thin Sharpie felt pen to trace the edge of the lip of the tub portion of the parts washer onto the undersurface of the lid on the front and two sides. This line will mark the outside edge for the placement of your vapor seal. Open the lid and make sure that you have a good Sharpie line to follow. Along the rear hinge, the seal will go up against the piano hinge pivot. Begin at the center rear of lid, peel off a short section of the protective paper strip and press the seal firmly into place. Follow the Sharpie line with the vapor seal to the **INSIDE** of the line. Continue the process around the lid and trim the seal to meet the edge at the start point. Once applied, press the seal along its length to make sure it is firmly attached.

Pour in your solvent. Turn on the motor. Solvent must fill the oil filter before you see a stream from the end of the spray wand. You are ready to start washing parts.