

## **Assembly Instructions - Twist Lock Style**

- 1 Place the filter element into the housing making sure the three "ears" on the element fall into their slots in the housing.
- 2 Gently push the filter element straight down into the housing.
- 3 Twist filter element 1/3 turn clockwise (to the right), and then let the element spring back up into the locked position.
- 4 Make sure the three filter element ears are fully engaged in the housing notches. As the filter tightens on the engine the filter element will tighten against the housing, which will eliminate any play.
- 5 Lube the quad ring with a thin film of clean oil and install onto the engine. The filter should spin on at least 3 full turns. Torque the filter to 20-25 ft lbs and recheck torque after 100 miles.

## **Removal Instructions - Twist Lock Style**

- 1 Grasp the filter housing in one hand. To prevent scratching the filter housing use care when setting the filter on any surfaces. (a paper towel or small cloth works nice as a pad)
- 2 Gently push the filter element straight down into the housing.
- 3 Twist filter element 1/3 turn counter clockwise (to the left)
- 4 Release the filter element. It should spring up through the 3 slots in the filter housing. You can now remove the filter element for inspection and cleaning (see cleaning instructions)

## **Cleaning**

We recommend the K&P Micronic Stainless Steel Oil Filter be cleaned frequently when first purchased or when engine work has been performed. This will give you a feel for how much debris is being filtered out of your machines oil and help you decide how often you want to clean the filter for your application. At minimum, clean the filter with every oil change. Remember, oil is the lifeblood of your machine, keep it clean!

Before cleaning, inspect the element and housing (spin on models) for debris. Since in nearly every case the oil flows from the outside of the filter to the inside, the debris will be caught on the outside of the filter element and on the magnet set into the top of the spin on models. Closer inspection of the debris can be achieved by flushing the particles into a clean light colored container. Monitor the debris from oil change to oil change. If something is significantly different in the amount or type of debris from the last cleaning or two, we recommend you investigate further.

Wash the reusable stainless steel filter element in clean solvent, gasoline, kerosene, aerosol carburetor cleaner or any other degreasing agent. You can even finish the cleaning process with some common dish soap and hot water. For stubborn debris, you can use a soft bristle brush to help dislodge particles from the screen. If you have compressed air available, blow air through the filter starting from the inside out, to remove any small

particles or cleaning agent from the screen. If you don't have compressed air, let the element air dry or use aerosol carburetor cleaner or something similar to displace the water. Finally, if you have a spin on model, clean the inside of the filter housing using the same type of cleaner as used on the reusable filter element.

Once clean and dry, you are ready to reassemble the filter unit, lube the quad ring with oil, and reinstall.