

# StoneAge® Warthog® WV-P4™

## Disassembly & Cleaning Instructions



The **Warthog® WV-P4™** is a low maintenance tool. There are no bearings, seals or viscous fluid to replace. There are however, times when you'll want to disassemble the tool and clean it. This sheet details how to perform this operation. A flat-head screwdriver and a vice are the only tools necessary to complete the task.



First, flip the tool over so the inlet nut is facing up. Use your flat-head screwdriver to pry off the O-ring from the inlet nut. Set the O-ring aside. With the O-ring off it will expose the retaining ring that keeps the inlet nut from sliding out of the body.



The retaining ring sits in a groove on the inside of the body. To remove the retaining ring locate the end of the ring and, with a flat-head screwdriver, separate the retaining ring by lifting the end out of the groove as shown above.



Once that is accomplished, gently rotate the tool while continuing to slide the screwdriver along, lifting the retaining ring out of the groove until it pops out completely. The ring comes off similar to a key sliding off a set of car keys.



When completely out of the groove the retaining ring will look like this. Set it aside temporarily for re-assembly later.



With the retaining ring removed the inlet nut will slide freely out of the body. Set the inlet nut aside. Next we will separate the head from the brass shaft. It's handy to use a vice for this next step.



Place the body into a vice with the head down. There are two wrench flats on either side of the head. Make certain the flats are positioned properly in the vice. Next, take the WV 180 (spanner wrench tool shown above) and set it into the two holes in the brass shaft.



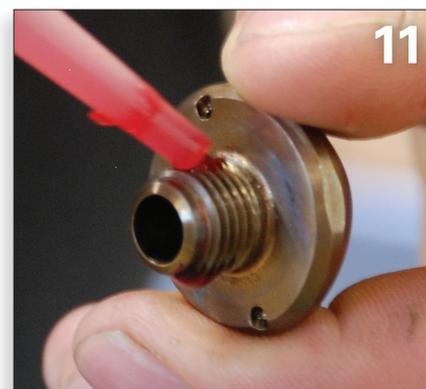
With your index finger applying downward pressure on the WV 180 spanner wrench, use a crescent wrench to loosen the shaft from the head in the vice. When reversing this step in re-assembly, do not overtighten the head into the shaft. 100 inch-pounds of torque is sufficient.



Finish unscrewing the head by hand. Remove the head and set aside. Make certain the head is clean and the drilled nozzles are free of debris. If necessary use a straight pin to clean out the drilled orifices.



With the head unscrewed the brass shaft will drop out of the body and the disassembly process is complete. Clean all the parts. Use solvent, compressed air and a pin if necessary.



Re-assemble the **Warthog®** following steps 2-10 **in reverse order**. Be sure to apply red 'loc-tite' to the head, (2 drops 180° apart, as shown above). When performing this step do not overtighten the head into the shaft. 100 inch-pounds of torque is sufficient.



The last two steps are to re-mount the retaining ring and finally, slide the o-ring on to the inlet nut. Your **WV-P4™** disassembly and cleaning procedure is now complete. The process can be handled easily in the field or the shop. Total time to complete the cleaning is approximately 15-20 minutes.