

ProVenger Repair Guide

Service Kit Installation



A Premier Farnell Company

ProVenger Nozzle Repair



ProVenger Nozzle Repair

- Style 9111 Service kit
- 1/8" Allen Wrench
- 3/32" Allen Wrench
- 13/16" Swivel Wrench
- Hammer
- Bench Vice



NOZZLE DISASSEMBLY

- Remove the inlet gasket.



NOZZLE DISASSEMBLY

- Use the 1/8" Allen wrench to remove the set screw at the swivel end of the shut-off body.



NOZZLE DISASSEMBLY

- Insert the 1.5" swivel removal tool into the grooves in the inlet adapter & remove the adapter subassembly.



NOZZLE DISASSEMBLY

- Remove the inlet adapter O-ring from the shutoff body.



NOZZLE DISASSEMBLY

- Remove the seat & O-ring from the inlet adapter.



NOZZLE DISASSEMBLY

- Turn the shutoff handle to the closed position and remove the ball.



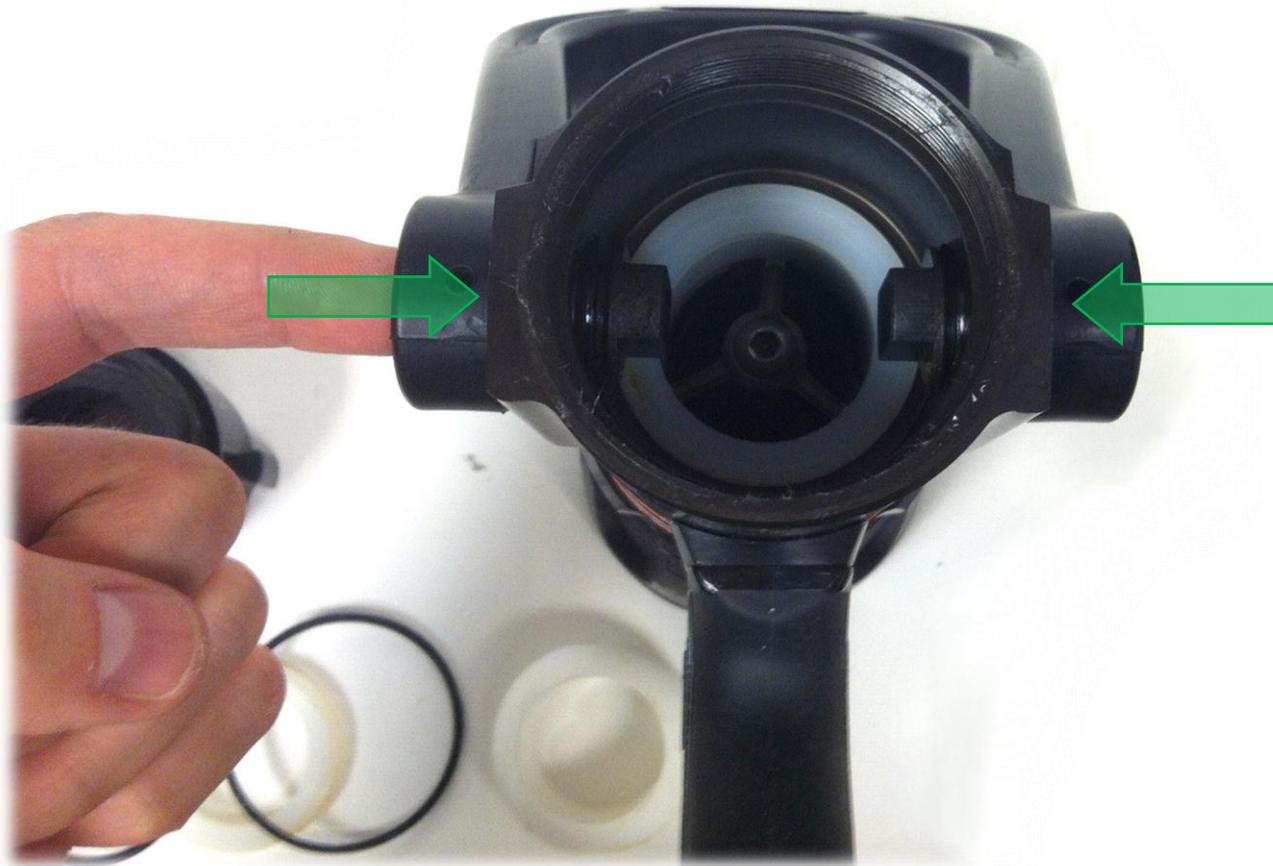
NOZZLE DISASSEMBLY

- Take the rivet supplied with the service kit & drive out the roll pins securing the handle to the trunnions.



NOZZLE DISASSEMBLY

- Push the trunnions into the shutoff body until they are free.
- Remove the handle & trunnions.



NOZZLE DISASSEMBLY

- Remove the O-rings from the trunnions



NOZZLE DISASSEMBLY

- Remove the front seat & O-ring.



NOZZLE DISASSEMBLY

- Remove the two screws on the turbine retaining ring with a 3/32 Allen wrench



NOZZLE DISASSEMBLY

- Remove the turbine retaining ring.
- TIP: If the ring is difficult to grab, rotate the pattern sleeve to expose the retaining ring.



NOZZLE DISASSEMBLY

- Remove the turbine teeth.



NOZZLE ASSEMBLY

- Insert O-ring onto seat & install into shutoff body with the O-ring facing down.



NOZZLE ASSEMBLY

- Install new O-rings on the trunnions and install the trunnions from inside the shutoff body.
- Place shutoff handle in position and push trunnions into place.
- Reinstall roll pins through handle & trunnions.



NOZZLE ASSEMBLY

- Turn the handle to the closed position and insert the new ball.



NOZZLE ASSEMBLY

- Install the new O-ring in the shutoff body recess.



NOZZLE ASSEMBLY

- Install the other new seat with O-ring into the recess of the inlet adapter



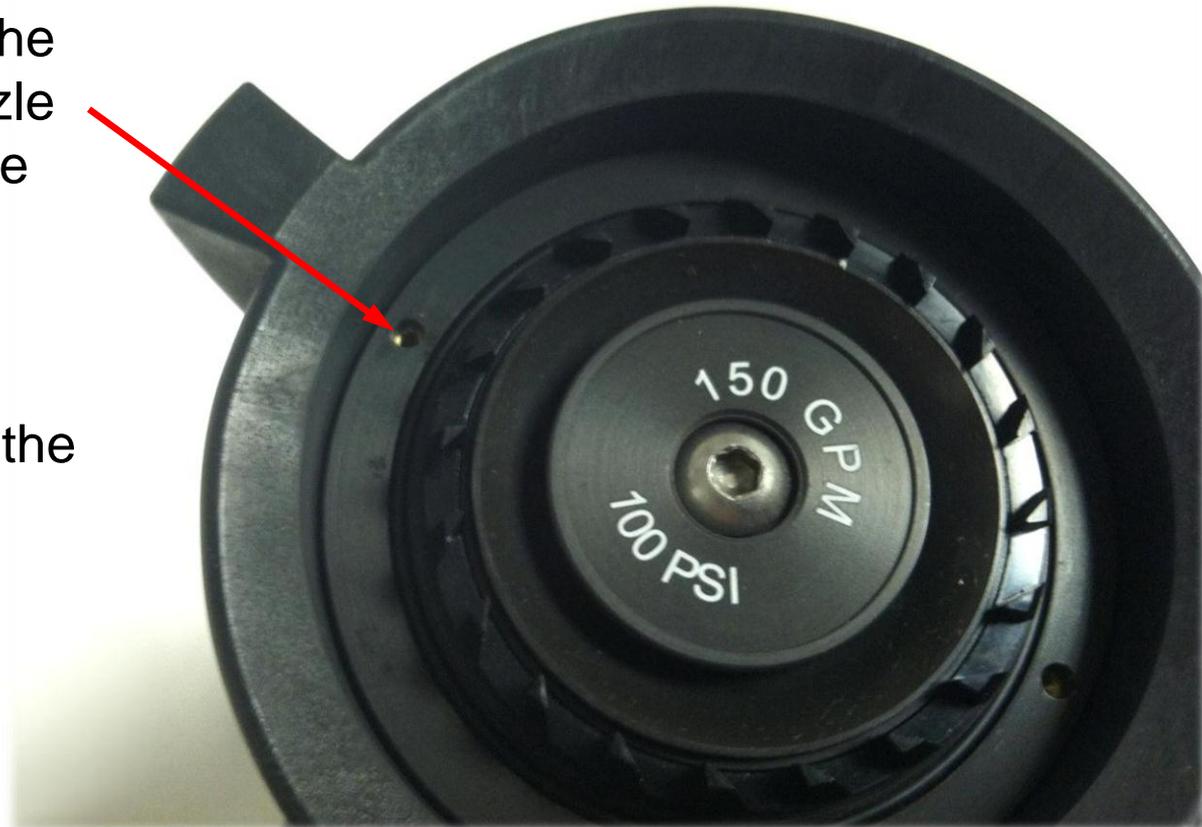
NOZZLE ASSEMBLY

- With the handle in the closed position, thread the inlet adapter into the shutoff body. Tighten until resistance is felt when opening & closing the shutoff.
- Install the new swivel gasket

NOZZLE ASSEMBLY

- Install the new turbine teeth.
- Line up screw holes with the threaded insert in the nozzle body before placing turbine retaining ring in place.

Note: Rotate the pattern sleeve as needed to align the parts



NOZZLE ASSEMBLY

- Put turbine retaining ring in place.
- Install the screws holding the retaining ring.



NOZZLE TESTING

- Test the nozzle to make sure it operates smoothly and is free of leaks.
- If necessary, tighten the swivel adapter to eliminate leakage.
- Once the shutoff functions properly, reinstall & tighten the set screw



THANK YOU!

- This concludes the installation of the service kit for the ProVenger nozzles from Akron Brass.
- If you have additional questions about this or other products, visit us on the web at AkronBrass.com or contact our technical support group at TechServ@AkronBrass.com.