ProVenger Repair Guide
Service Kit Installation
ProVenger Nozzle Repair
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- 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.
• Remove the inlet adapter O-ring from the shutoff body.
NOZZLE DISASSEMBLY

- Remove the seat & O-ring from the inlet adapter.
• Turn the shutoff handle to the closed position and remove the ball.
• 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.
• Begin by laying out the replacement parts where they are easily accessible.
• Lubricate O-rings with Parker O-Lube.
• Ensure ball & seats are free of grease or lubricant as this can attract debris.
NOZZLE ASSEMBLY

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