ProVenger Tip Disassembly Guide
ProVenger Tip Disassembly

Required Tools
- 1/8” straight screwdriver
- ¼” or 3/8” straight screwdriver
- 1/8” Allen Wrench
- 5/32” Allen Wrench
NOZZLE DISASSEMBLY

• Remove the Screw Cam.

• The CE version of the nozzle has a spring & detent ball under the screw cam.

• Pull off the pattern sleeve assembly.
NOZZLE DISASSEMBLY

- Remove the discharge key by holding the nozzle with the key downward and tapping the nozzle against your hand or a work surface. This will cause the key to slide out.
NOZZLE DISASSEMBLY

• Use the 5/32” Allen wrench to remove the screw holding on the baffle.
• Make sure to retain any shims that may be under the baffle.
NOZZLE DISASSEMBLY

- Use the small screwdriver blade to start the retaining ring out of its groove
- Tip: The retaining ring is easy to remove if it is curled up as shown in the picture, rather than trying to remove the entire ring over the nozzle body.
• Using the 1/8” Allan wrench, remove the Cam Axle.

• At this point the detent ball & spring between the nozzle body & gallonage selector ring will be free. Retain these while removing the selector ring.
• Removal of the selector ring will expose the cam rollers.
• Remove both cam rollers before attempting to pull the discharge tube out of the nozzle body.
• With the discharge tube removed, disassembly of the nozzle tip is now complete.

• The baffle stem & spider are removed through the rear of the nozzle and are not covered in this guide.
NOZZLE ASSEMBLY

- Before reinstalling the discharge tube, note the position of the two cam grooves and the key slots.

- Groove #1 (short groove) is used for the fixed gallonage nozzles.
- Groove #2 (long groove) is used for the selectable gallonage nozzles.
The nozzle used for this guide is a selectable gallonage version, so the appropriate cam groove is lined up with the slot before locating the slot for the discharge key on the opposite side of the nozzle & sliding the key back into place.
Replace both cam rollers. The thinner one goes in first & fits into the groove in the discharge tube.
• Replace the selector ring (detent ball & spring included) back onto the nozzle. Downward pressure on the ring may be needed to align the hole for the Cam Axle.
• Install the Cam Axle to lock the selector ring in place.
• Reinstall the baffle and any shims that are used on the nozzle.
• Reinstall the retaining ring. You may need to push the gallonage selector ring downward to completely seat the retaining ring.
NOZZLE ASSEMBLY

- Slide the pattern sleeve assembly back over the nozzle and reinstall the Screw Cam.
- Test the nozzle to make sure the pattern sleeve & the gallonage selector ring operate properly and over their full range of movement.
THANK YOU!

- This concludes the tip teardown & reassembly of the ProVenger nozzle 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.