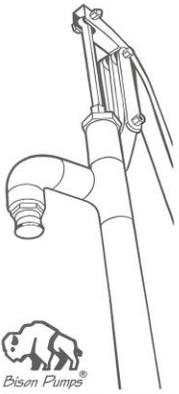
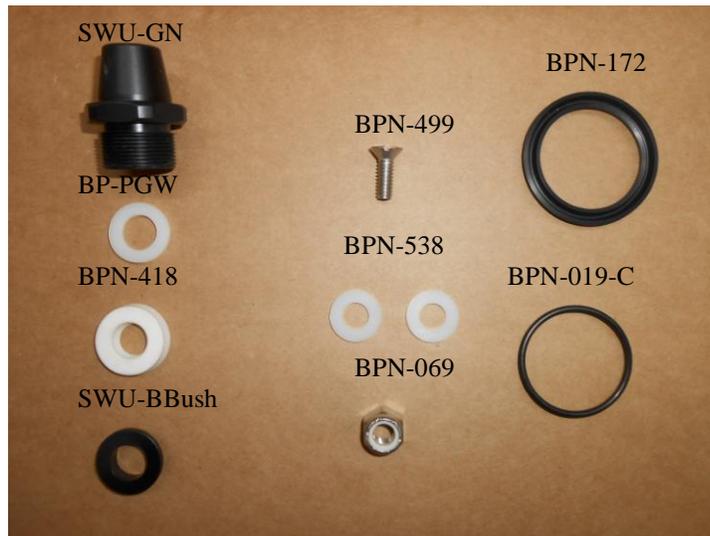


# BISON SW UTILITY REPAIR KIT INSTRUCTIONS



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BISON PUMPS  
98 BANGOR STREET  
PO BOX 977  
HOULTON, ME 04730  
1-800-339-2601  
INFO@BISONPUMPS.COM



1. To replace the packing assembly (SWU-BBush, BPN-418 and BP-PGW), remove the (4) screws (BPN-499) from the top cover.
2. Wiggle the handle assembly and pull upwards removing the piston and cover along with the handle assembly.
3. Mount the piston assembly in a vise by clamping it onto the piston rod. Be careful not to scar the piston rod.
4. Remove the shoulder bolt from the end of the handle, and \*take note the placement of the plastic spacers on each side of the heim joint.
5. Loosen the jam nut from the bottom of the heim joint at the top of the lift rod by turning it counter-clockwise, then turn the heim joint counter-clockwise to remove it.
6. Remove the packing gland nut (SWU-GN) by turning it counter-clockwise and remove. Remove the packing gland washer (BP-PGW) from on top of the seal.
7. To remove the white cup seal (BPN-418), use a small blunt flat blade screwdriver to pry out the packing cup seal carefully.
8. To replace the bottom bushing (SWU-BBush), push out the bottom bushing using a flat screwdriver from the underside out the top of the cover. To install the new bushing, push the new one from the top of the cover into its seat. You should see the bottom edge of the bushing out the base of the cover.
9. To reassemble the seal, lube the new cup seal with Cooking Spray or Cooking oil. Slide it over the piston rod with the lip of the white cup seal downward into the packing gland area and carefully work into place with a blunt screwdriver until it is seated.
10. Replace the packing gland washer (BP-PGW), packing gland nut (SWU-GN), and heim joint in the reverse order as it was taken apart.
11. To replace the top cover o-ring (BPN-019-C), gently pick it out of its groove seat with a blunt flat blade screwdriver or o-ring pick and work it down over the piston.
12. To replace, stretch the new one over the cover (SWU-H) and up into its o-ring groove. Apply Cooking Spray or Cooking oil to it before replacing it into the pump's body.
13. To replace the piston's cup seal (BPN-172), using a blunt, flat blade screwdriver, pry off the cup seal over the end of the piston by working it around and off. **\*note\* the direction of the flared end of the cup seal. It should be pointing up toward the lift rod and needs to be reinstalled in the same direction.**
14. After the piston seal is in place, coat the piston seal with Cooking Spray or Cooking oil. Reassemble the piston assembly and cover into the pump body. Reattach handle, new spacers (BPN-006) and nut (BPN-069) if necessary. Install the cap screws (BPN-499) and test!

