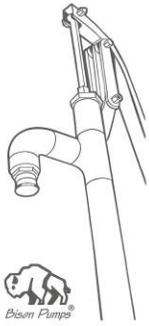
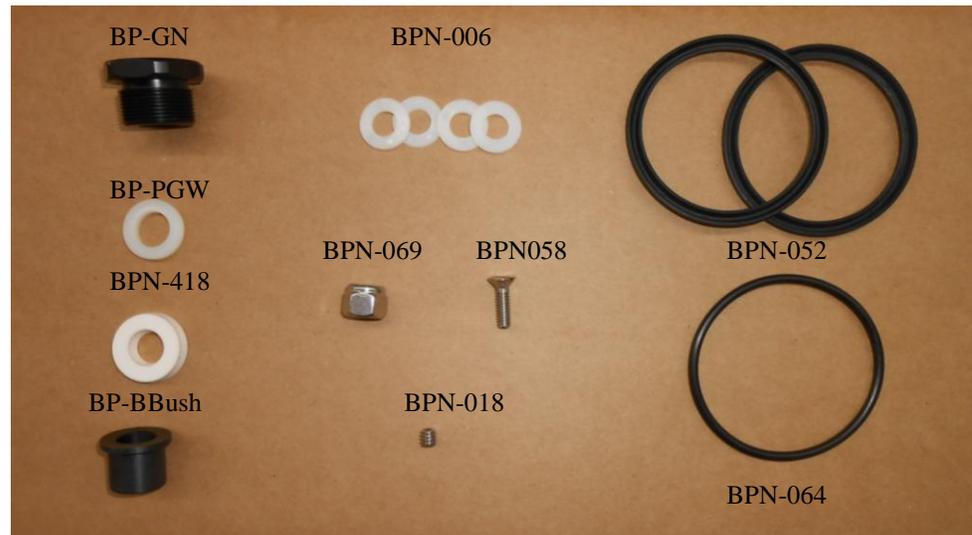


# BISON SHALLOW WELL REPAIR KIT INSTRUCTIONS



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1. To replace the packing assembly (BPN-418, BP-PGW, BP-BBush), remove the (4) screws (BPN-058) from the top cover (SW1-H2).
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 (BP-SB) from the top of the handle.
5. To replace set screw (BPN-018) in eyelet at the top of the lift rod, use an 1/8" allen wrench to remove existing set screw out of the eyelet. To reinstall new set screw (BPN-018), insert set screw by hand, finish with 1/8" allen wrench.
6. Remove the gland nut (BP-GN) by turning it counter-clockwise and remove. Remove the packing gland washer (BP-PGW) from the top of the seal.
7. To remove the white cup seal (BPN-418) from the top cover (SW1-H2), use a small blunt flat blade screwdriver to pry out the white cup seal carefully.
8. 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.
9. Replace the packing gland washer (BP-PGW) and gland nut (BP-GN) in the reverse order as it was taken apart.
10. To replace the top cover o-ring (BPN-064), 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.
11. To replace, stretch the new one over the cover (SW1-H2) and up into its o-ring groove. Apply Cooking Spray or Cooking oil to it before replacing it into the pump's body.
12. To replace the piston's cup seal (BPN-052), 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.**
13. 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.
14. Replace the (4) washers (BPN-006) for the handle and the 3/8" nyloc nut (BPN-069), if necessary. Do not overtighten when reassembling.
15. Reattach handle WITH SET SCREW pointing towards the handle. Install the cap screws (BPN-058) and test!

