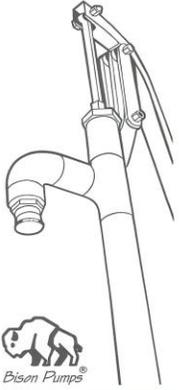


# BISON REPAIR KIT INSTRUCTIONS



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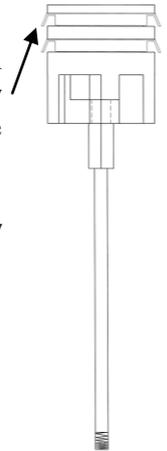
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## CYLINDER REPAIR:

To replace the piston cup seals and o-rings, remove the (6) ½” screws that hold the end cap in place and pull end cap out of the cylinder. Remove the piston from the cylinder. Secure piston in a vise by holding it by the piston rod. Remove and replace the cup seals using a blunt screwdriver and prying off the seals. Take note of the direction of the lip of the seal and replace in the same manner. Assemble in reverse order.

Each end cap has (2) o-rings. Use a flat screwdriver or o-ring pick to remove o-rings and replace with new o-rings if necessary.



## PUMP HEAD REPAIR:

1. To replace the packing assembly (white cup seal, packing gland washer and bottom bushing), remove the black gland nut at the top of the pump body by turning counter-clockwise.
2. Wiggle the handle assembly and pull upwards removing the lift rod and the handle assembly.
3. Mount the lift rod 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 top of the handle.
5. Remove the eyelet at the top of the rod. If you need to replace the roll pin in the eyelet at the top of the lift rod, use a small hammer and punch to drive the existing roll pin out of the eyelet. Do not use excessive force. To reinstall new pin, insert the roll pin as much as possible by hand, then carefully tap with hammer to reset the pin.
6. Remove the gland nut from the lift rod. Remove the packing gland washer from the top of the pump. Then remove the white cup seal from the top by CAREFULLY using a small blunt flat blade screwdriver to pry out the white cup seal. Lastly, remove the bottom bushing.
7. To reassemble the seal, replace the bottom bushing if necessary. 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 top of the pump and carefully work into place with a blunt screwdriver until it is seated.
8. Replace the packing gland washer and gland nut.
9. Screw eyelet back onto lift rod. Be sure the set screw is facing the handle.
10. Reattach the shoulder bolt. Replace washers or nyloc nut, if necessary.