Cylinder Rebuild Instructions

ENPROVELOP, LLC

Recommended tools:

- Repair kit
- Bench vise or something to hold the cylinder
- Adjustable wrench- minimum opening 2.25"
- 3/8" steel rod, punch or larger screwdriver

- Ear Clamp Pliers
- Small seal pick
- Thread locker- we recommend Loctite 243
- General purpose grease

Instructions:

- 1) Start with a clean work area. Contaminants in the cylinder can cause premature wear and failure
- 2) Remove the ear clamps from the cylinder bellows. We found that rolling and twisting the clamps helps with removal.



- 3) Remove the bellow and clean any dirt from the area
- 4) Place the punch or steel rod in the hole on the rod clevis and thread the jam nut back to unlock them.



Remove both nut and clevis from the rod

- 5) Place pivot end of the cylinder in vise but be careful not to overtighten and damage the pivot end
- 6) Use adjustable wrench to thread the rod end cap off the cylinder
- 7) Slide the end cap off rod and the piston/rod assembly out of the bore
- 8) Remove the oring on the end cap where it seals against the bore





- 9) Remove the rod seal on the end cap using the seal pick. Be careful not to scratch any surface a seal will be contacting.
- 10) Remove the seal on the piston
- 11) Clean surfaces thoroughly to remove any dirt and grease using a rag. Sometimes it helps to blow out with compressed air afterward dry remove contaminates
- 12) Apply grease to surface the seals will including the bore, piston, and rod
- 13) Reinsert seals onto piston and end cap just as they were before removed with a small amount of grease applied to them. Verify that they are not twisted after installed.



14) Insert piston and apply more grease to the bore after inserted



15) Slide end cap over the rod and thread back onto the bore with a little thread locker applied before threading. Orient ports to be parallel when finished. The



thread locker may take several hours to setup

16) Thread clevis back on and in the extended

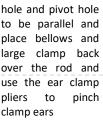
position the hole-to-hole measurement is 11.5"



new contacting



and lock the jam nut against the clevis using the punch and wrench 17) Orient



18) Place the small clamp over opposite side of the bellows and clamp with pliers when it is seated correctly on the clevis



cylinder rebuild



19) Congratulations! You have finished the

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