

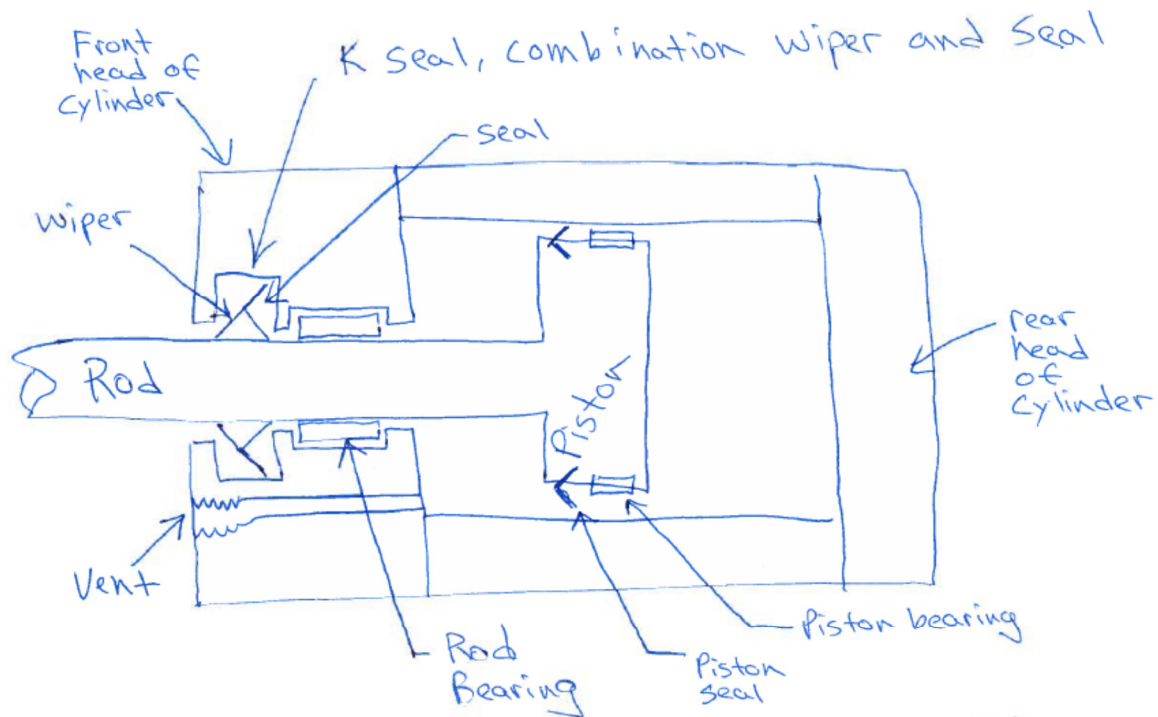
Procedure for Lubricating Adec's Chair Lift Cylinders to Eliminate Squeaks.

Warn Jackson

11/27/2012

The following instructions are for adding lubrication to the internal portion of the lift cylinders front head as well as the external rod. The goal is to get Adec hydraulic oil with anti-squeak additive on the rod bearing and on both the wiper and seal portion of the K seal.

Lubricating the rod on the outside of the cylinder assembly alone is often not helpful in eliminating potential squeaks. The reason is that the K seal wiper simply wipes off this lubricant keeping the lubricant away from the seal portion of the K seal and the rod bearing where the squeak primarily originates.

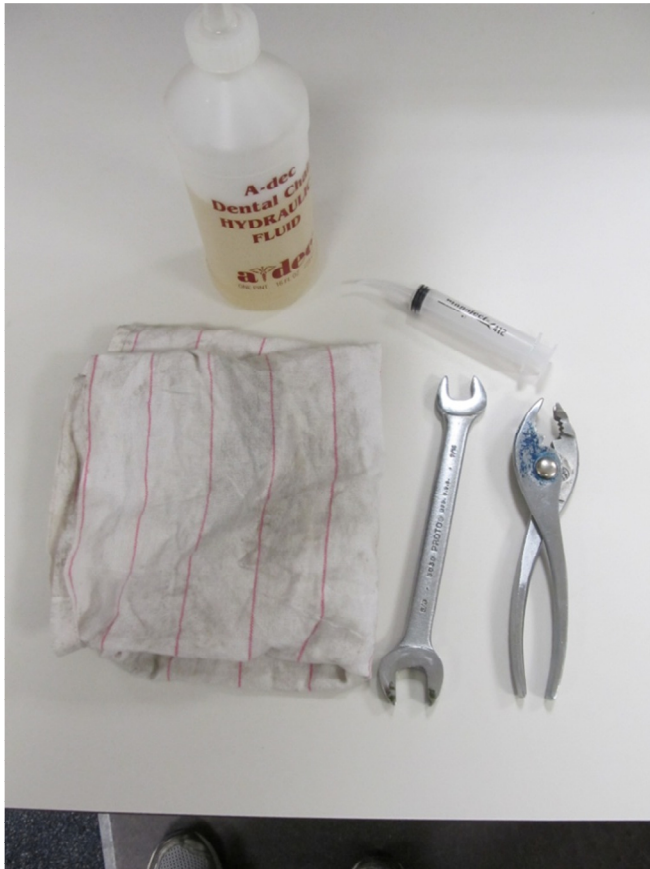


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Adec Chair Lift Cylinder

Tools required:

- Bottle of Adec Hydraulic oil which contains anti-squeak additive.
- Shop rags to clean up hydraulic oil
- Monoject 412 syringe
- Pliers
- 9/16" wrench (in case chair goes into hydraulic lock)



Instructions:

- 1) Raise base up and remove lift arm underside cover.
- 2) Clean rod and then apply some Adec hydraulic oil to the rod with a wetted shop rag.
- 3) Using pliers, remove the clear vent tube and tube retainer from the front head of the cylinder.
- 4) Fill the syringe with Adec's Hydraulic oil then inject this oil into the cylinder's vent barb.



- 5) Repeat step 4 so that 2 syringes worth of oil are injected into the front head of the cylinder.
- 6) **IMPORTANT!** Re-install vent tube and tube retainer.



- 7) Disconnect the lift arm potentiometer wires from the circuit board. This will allow the cylinder to be extended fully (in the next step) which should push the lubrication up into the rod bearing and the seal portion of the K seal.
- 8) Power the lift arm fully up. You should observe lubrication in the clear tube being returned to the reservoir.
- 9) Lower the chair lift fully down. If the chair goes into hydraulic lock in the previous step then the 9/16 wrench will be required at the lift fitting on the hydraulic pump to bleed off a couple drops of oil so that the pressure in the system is reduced eliminating hydraulic lock.
- 10) Plug the potentiometer wire back into the circuit board.
- 11) Cycle the lift fully up and down several times and the squeak should be eliminated.
- 12) Replace covers and clean up any hydraulic oil that may have leaked out.

END