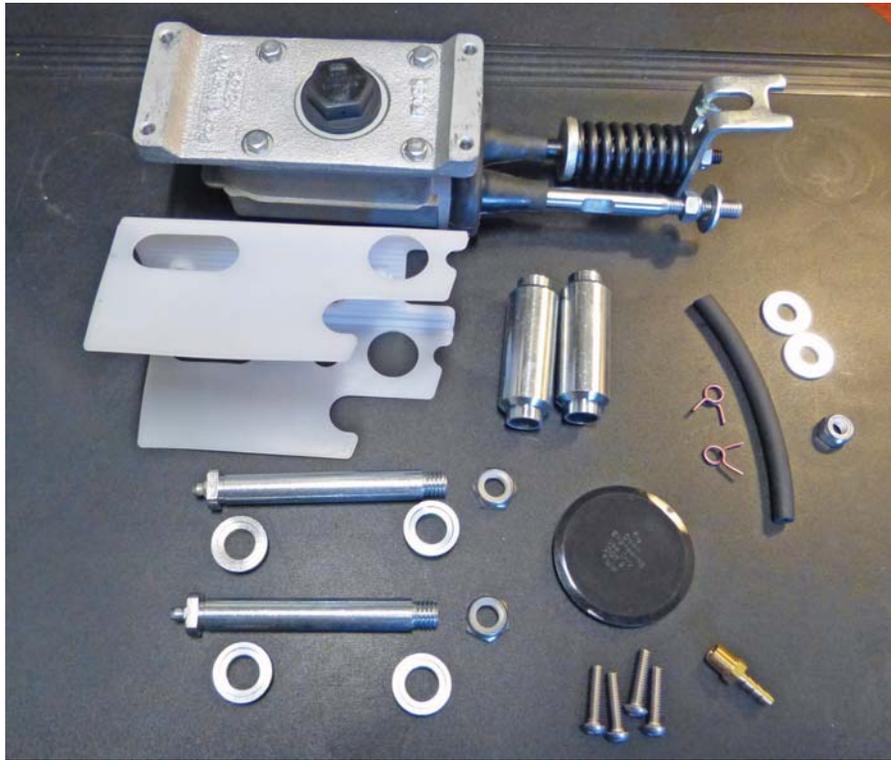


Master Cylinder Kit for 70LP Actuators



Master Cylinder Kit Part Number 47267K

Tools Required

Wheel chocks to keep trailer from moving
Jack stand to elevate trailer tongue
3mm or 1/8" hex wrench for top four (4) screws
10mm wrench for dampener rod
14mm wrench for dampener rod lock nut
9/16" for "zerc" end of pin/bolt
3/4" or 19mm for jam nuts on the pins/bolts
Rags or old towel to catch brake fluid
Inch pound torque wrench

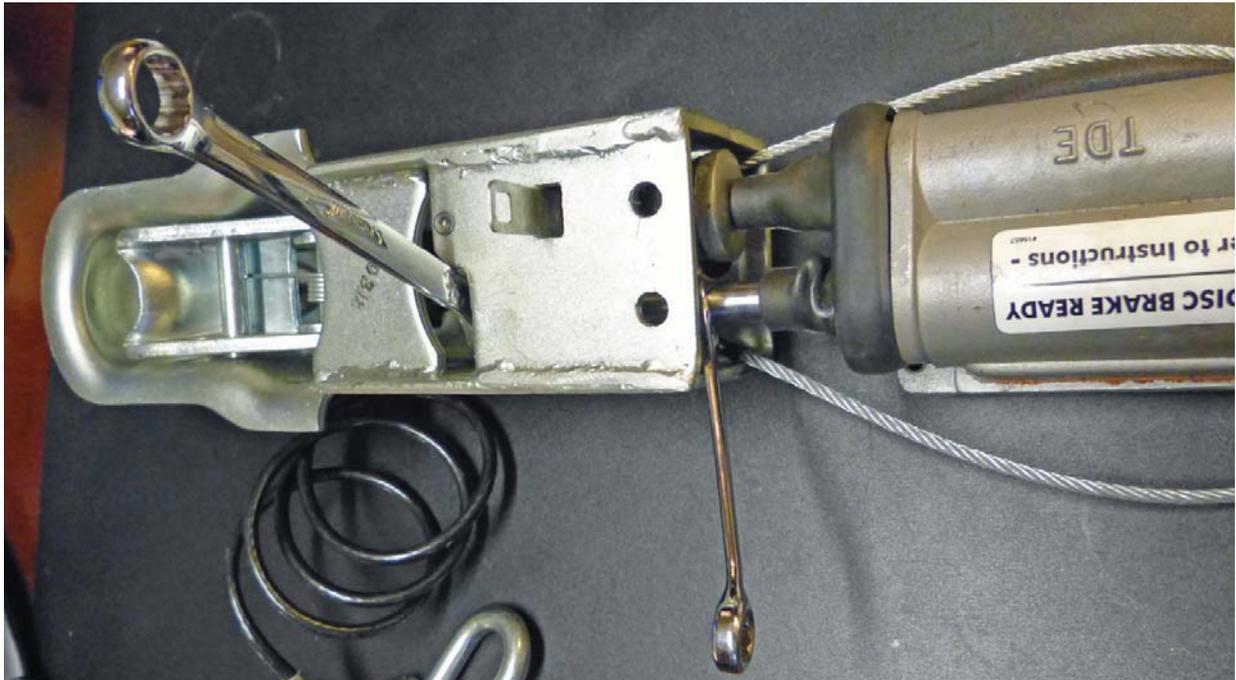
1. Secure the trailer on a level spot. Block the wheels and elevate the trailer tongue to be able to work on the actuator. Use old towels or rags under the actuator to catch brake fluid that might spill,
2. Remove the "guts" of the actuator from the housing.
 - a. Remove the plastic cap on the housing.
 - b. Remove the four stainless steel screws holding the master cylinder in place.
 - c. Remove the two bolts that have zerc fittings on one end. The kit has new replacement bolts.
 - d. Slide the coupler/master cylinder assembly out of the housing.
 - e. Remove the brake line from the rear of the master cylinder. Elevate the end of the hose to keep brake fluid from draining out of the brake lines.
3. Using a 10mm wrench for the rod, and a 14mm wrench for the nut, remove the lock nut holding the dampener rod to the coupler housing.
4. Slide the master cylinder away from the coupler. Remove the emergency stop cable from the "L" bracket.

Instruction #08169

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Installing New Master Cylinder

1. Now would be a good time to clean the coupler and the actuator housing of road grime and dirt.
2. Your kit contains parts to replace the rollers, plastic wear cuff, pins/bolts and the top SS screws. Do not reuse old parts where new parts are available in the kit.
3. If your old master cylinder has a disc brake solenoid you need to remove and reinstall on your new master cylinder. The new master cylinder kit has the replacement brass fitting for the master cylinder, rubber hose and hose clips to make this easier.
4. Insert the new rollers into the coupler body. This must be done before reassembly of the master cylinder to the coupler.
5. Re-connect the emergency cable to the "L" bracket and wrap the steel cable around the master cylinder at the top.
6. Place one ½" flat washer on the dampener rod. Slide the master cylinder into the coupler so that the dampener rod goes into the hole in the plate. Place another flat washer on the dampener rod. While holding the dampener rod with a 10mm wrench, add the lock nut and turn the lock nut with a 14mm wrench until the rod is tight to the coupler plate.
7. Install the new white plastic cuff on the coupler. The cuff will snap in place with the two top holes.
8. Slide the "new" assembly back into the housing.
9. Insert the new pins/bolts with the zercs lining up the rollers with the holes in the housing.
 - a. Place a new bushing on the pin and place thru the housing, into the roller and out the other side of the housing. Place a new bushing on the end of the pin. Loosely attach a jam nut to both pins at this time.
10. Line up the master cylinder so that you can re-install the top four (4) SS screws into the master cylinder top plate. Use a Loc-Tite or similar coating to insure the screws stay in place. Torque to 150 INCH lbs (not foot lbs, 150 INCH lbs is 12.5 foot lbs)
11. Tighten the jam nuts on the pins to a "just snug" position. Pins must be able to rotate.
12. Re-install housing on trailer tongue if required
13. Re-install brake line to master cylinder
14. Bleed brakes using instructions from brakes or actuator.