



CAK688R-OE Cylinder Assist™ Kit

**2007-2018 Jeep Wrangler JKs
with Stock OE Axles**



INSTALLATION GUIDE

CAK689R-OE PARTS LIST

6.75" Single-Ended Steering Cylinder

Stock Axle-to-Cylinder Mounting Bracket Kit

- (1) Stock Axle-Cylinder Mount Bracket
- (2) 3/8-16 x 1" Hex Head Bolts to mount the bracket
- (4) 3/8 washers
- (2) 3/8-16 Lock nut for bracket mounting bolts
- (1) Axle Tube bracket, U-bolt and flanged nut assembly

Tie Rod Clamp, Bolt & Lock Washer

Cylinder Tie Rod Ends & Hardware Kit

- (1) 5/8-18x5/8" Male Rod End
- (1) 3/4-16x5/8" Female Rod End
- (1) 5/8-18 SAE Right Hand Jam nut
- (1) 3/4-16 SAE Right Hand Jam nut
- (1) 5/8-18-1.75" Hex Head bolt to mount the cylinder to the bracket
- (1) 5/8-18 Lock Nut for cylinder mount bolt

High Pressure Gear-to-Cylinder Hoses

- (1) HA-H2036D—30-1/2" Driver-side gear-to-cylinder hose
- (1) HA-H2036P—38" Passenger-side gear-to-cylinder hose

NOTE: Use medium grade thread locker compound on all bolts without lock washer or lock nut. Use hydraulic thread sealant on all hydraulic fittings and hose couplings.



INSTALLATION GUIDE

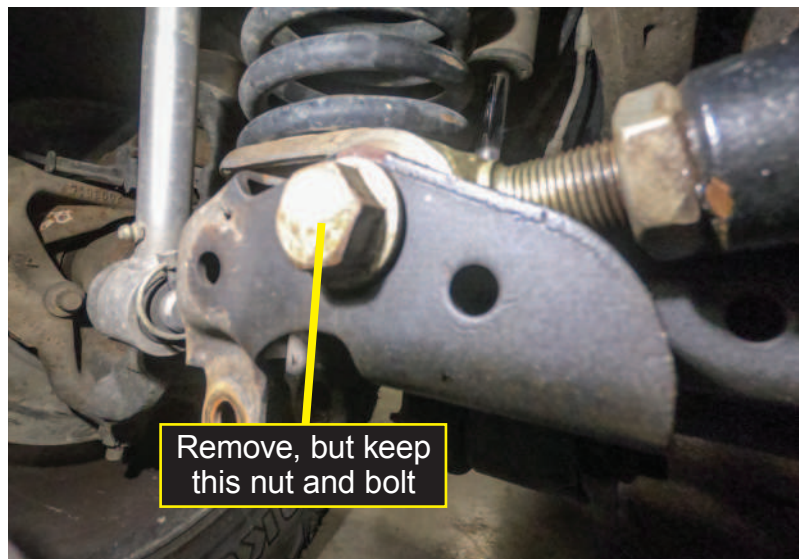
CAK688R-OE

- 1) Start by removing factory steering stabilizer shock and bracket.



- 2) Remove the bolt and nut that attaches the track bar to the axle tube. Retain them for later.

NOTE: When removing the track bar bolt, strap the passenger-side of the frame to the driver-side of the axle to prevent the body from shifting.

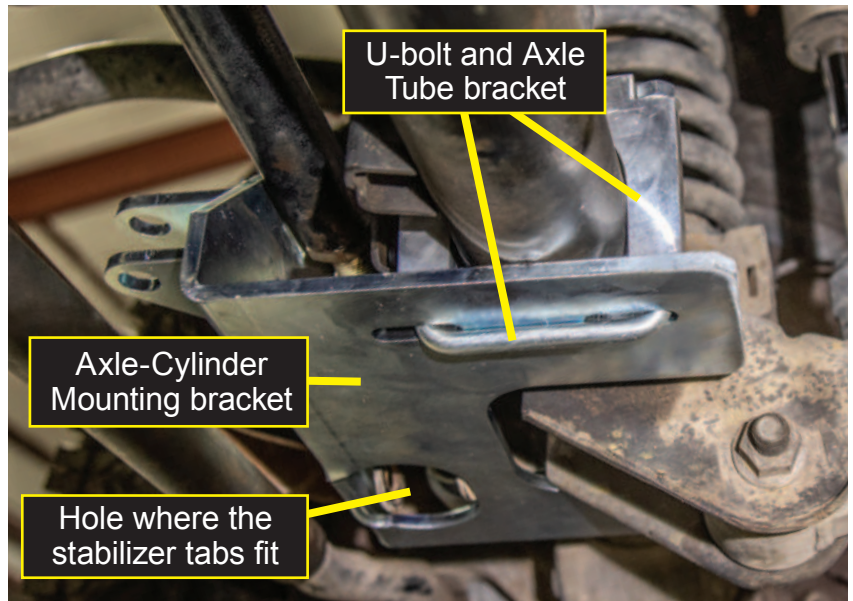




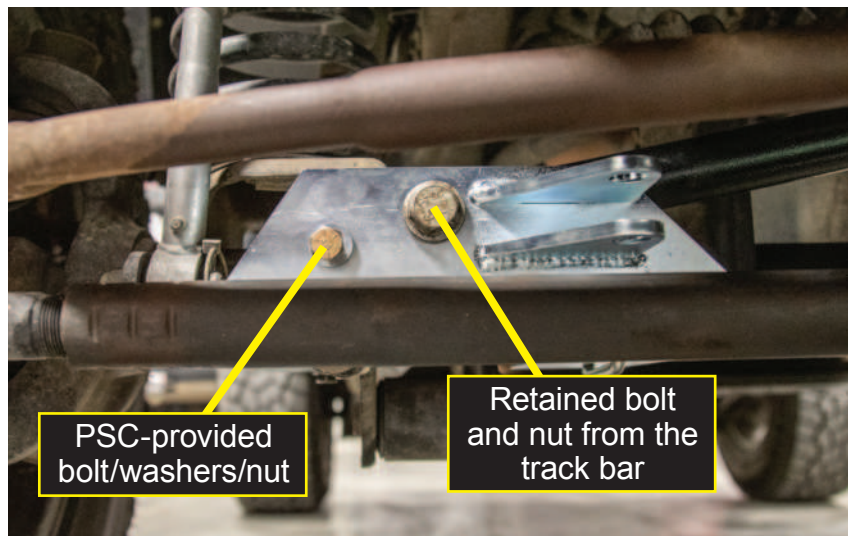
INSTALLATION GUIDE

CAK688R-OE

- 3) Slide the Axle-Cylinder mounting bracket up where the steering stabilizer just was. The tabs that bolted the stabilizer in place will fit through the hole cut out of the bracket. Use the U-bolt and axle tube bracket to hold the cylinder mounting bracket in place, don't tighten fully until all the other hardware is in place.



- 4) Next, install the bolt you retained from the track bar and one of the bolt/washer/nut sets provided by PSC on the front of the mounting bracket.



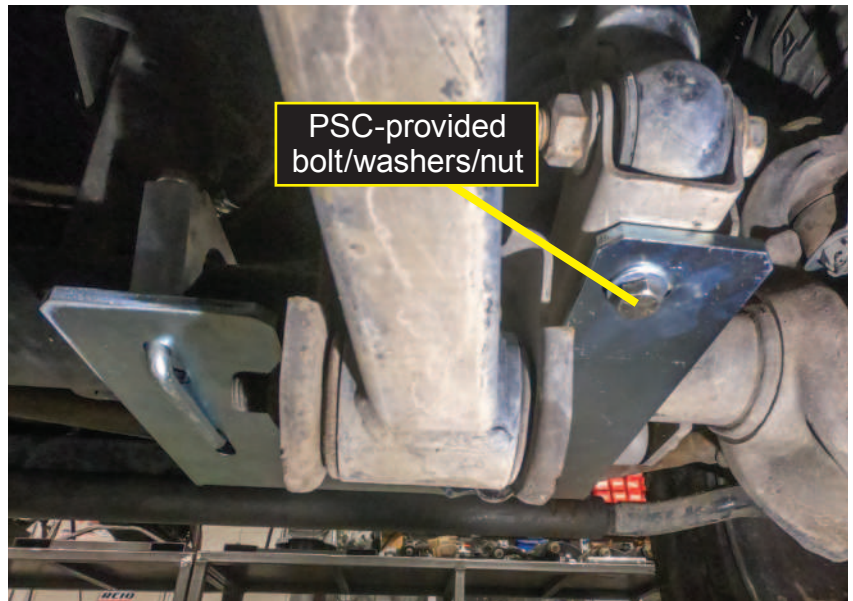


INSTALLATION GUIDE

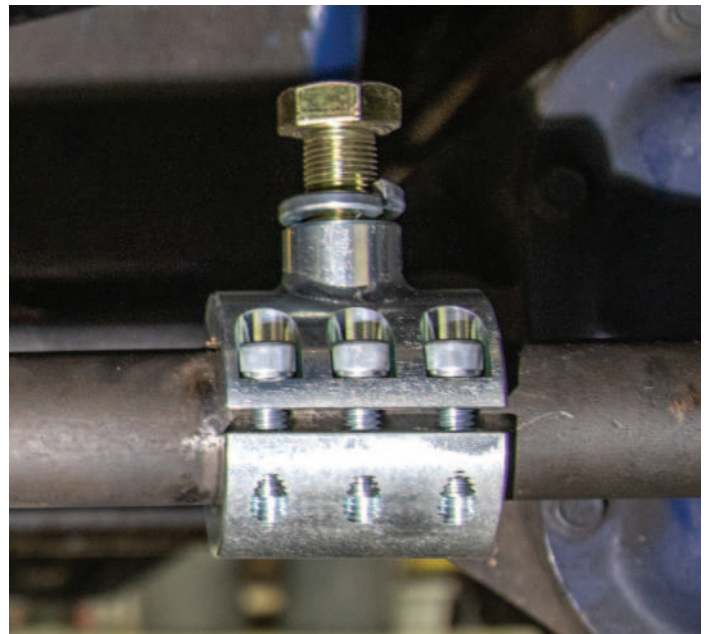
CAK688R-OE

- 5) The second PSC-provided bolt/washer/nut set goes at the back of the bracket under the shock mount.

With all the hardware in place, now you can fully tighten everything.



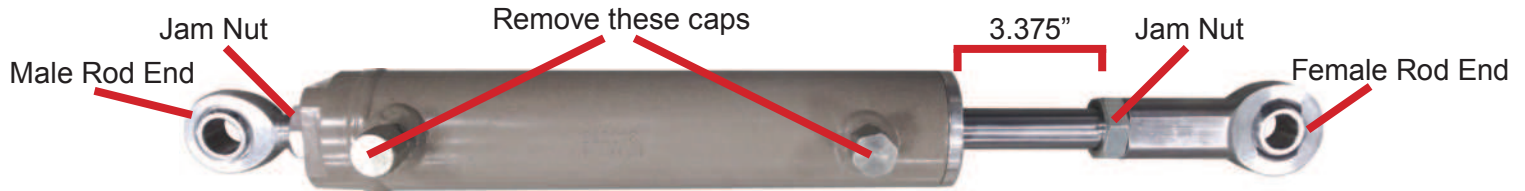
- 6) Loosely attach the tie rod clamp to the tie rod. You will need to move this when installing the cylinder.





INSTALLATION GUIDE

CAK688R-OE



- 7) Install rod ends to the cylinder with the jam nuts. Thread rod ends all the way down then back off just enough so that rod end holes are about horizontal to cylinder ports as shown in picture. Do not tighten jam nuts yet.

Un-cap both of the cylinder ports and pull out the piston halfway (with this 6.75" cylinder that would be 3.375 or 3-3/8"). If the tires are straight, this will make the final steps to get everything centered easier.



- 8) Install the cylinder to bracket and tie rod clamp as shown. Use the PSC-provided 5/8" x 1-3/4" bolt to fasten the cylinder to the Axle-Cylinder Mount Bracket. Then use the bolt and lock washer that was in the tie rod clamp to attached the cylinder to that clamp. Make sure that the tie rod clamp is vertical and the cylinder's rod ends are parallel to each other.

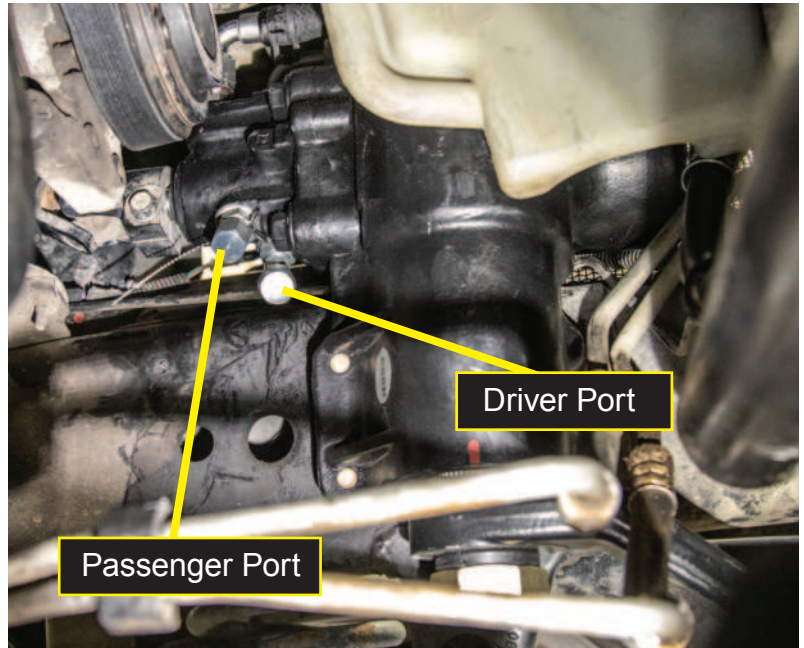


INSTALLATION GUIDE

CAK688R-OE

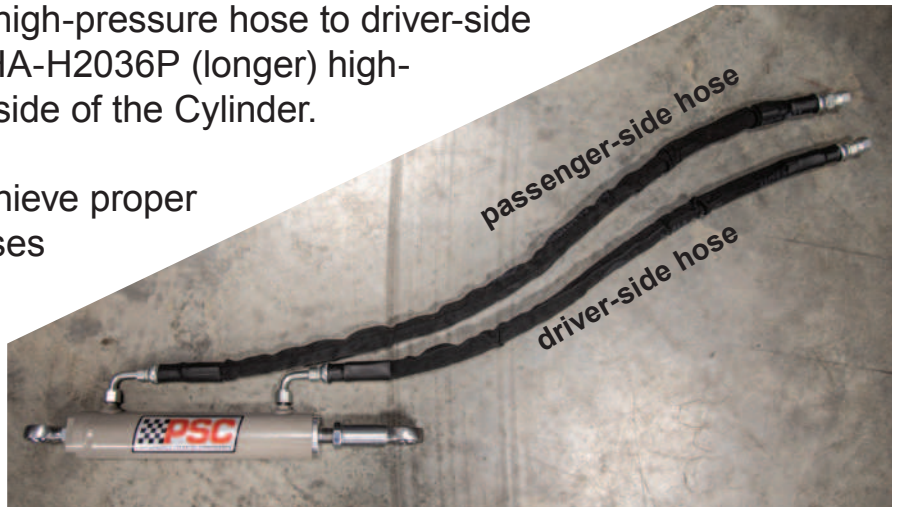
- 9) Remove the port caps on the steering gear, then attach the cylinder hoses to the respective "Passenger" and "Driver" ports, as pictured to the right. The longer hose goes into the passenger port, the short to the driver port (as seen in the picture below).

NOTE: Have a pan underneath the steering gear so that it can drain into the pan and not make a mess on the ground.



- 10) Install HA-H2036D (shorter) high-pressure hose to driver-side of the Cylinder. Then install HA-H2036P (longer) high-pressure hose to passenger side of the Cylinder.

Now rotate the cylinder to achieve proper position and clearance of hoses and ports on top of cylinder, then tighten the (2) jam nuts on the rod ends to lock cylinder into position.





INSTALLATION GUIDE

CAK688R-OE



11) Double check that all hardware and fittings are fully tightened.

**Return to the Adventure Kit Installation Guide
to finish your steering system install**

OR

**If this is being installed after an Adventure Kit was installed,
proceed to the bleeding procedures.**