

# RETRO FIT DISC BRAKE KIT



## Package Contents:

- 1 Galvanized Hub with Stainless Steel Rotor (2 piece) or Integral (1 piece) Hub and Rotor (both include 1/2"-20 wheel studs and lug nuts.
- 1 Inner Bearing and Race
- 1 Outer Bearing & Race
- 1 Seal
- 1 Loaded Caliper with Pads
- 1 Mounting Bracket with Mounting Bolts and Nuts
- 1 Aluminum Grease Cap with See Thru Lens Ensure the size of the axle and the inner seal are correctly matched.

**ALWAYS WEAR SAFETY GLASSES.**



## INSTALLATION INSTRUCTIONS

### STEP: 1

Confirm trailer and trailer axle are properly supported and on a level surface before installing work. Remove tire and wheel assembly from hub. Remove old bearing protector or dust cap. To remove bearing protector strike outer edge in a downward motion with a rubber mallet. Rotate the hub 180° and strike again. Repeat above until part is loose.

**ALWAYS WEAR SAFETY GLASSES.**

### STEP: 2

Remove the cotter key or flange washer, spindle nut and thrust washer.

### STEP: 3

Remove the bearing.

### STEP: 4

Remove the hub, hub/rotor or hub/Remove the bearing. drum from spindle

### STEP: 5

Loosen and remove the backplate bolts.

### STEP: 6

Remove the backplate from the axle brake flange

### STEP: 7

Remove the new bearings from the Retro Disc Brake Kit and pack the bearings with grease.

### STEP: 8

Install the inner bearings into the new hub. Lightly lubricate seal O.D. with a small amount of Bearing Lube. Install Seal with care. If bent in any way, it must be discarded. Make sure the seal is fully seated in place. Lightly lubricate the I.D. of Seal with a small amount of Bearing Lube for ease of installation onto the spindle.

### STEP: 9

Install the caliper mounting bracket onto the axle brake flange in the position to allow caliper bleed screw to point up.

### STEP: 10

**IMPORTANT!**  
Torque the caliper mounting bracket bolt to the following:  
7/16" Bolts = 55ft. lbs. (4 bolt brake flange)  
3/8" Bolts = 35ft. lbs. (5 bolt brake flange)

### STEP: 11

Install the new hub or hub/rotor onto the spindle.



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**Kodiak**  
Disc Brakes



### STEP: 12

Install the outer bearing on the spindle.

### STEP: 13

Install the thrust washer and spindle nut. Tighten nut with one hand and rotate hub with the other. Tighten nut until it produces a drag on the hub rotation. With hub stationary, slowly loosen nut with wrench and retighten with fingers.

**DO NOT PRELOAD BEARING.**

### STEP: 14

Install the cotter pin or flange washer in the spindle nut.

### STEP: 15

Install the dust cap into the hub. Be careful not to damage the cap. Use a rubber mallet and an installation tool that properly seats on the crimp of the dust cover.

### STEP: 16

Install caliper on mounting bracket.

#### IMPORTANT:

Torque the 2-11mm bolts to 40 ft. lbs. or turn 90° after metal to metal contact.

### STEP: 17

Install the flax-hydraulic hose onto the caliper. DO NOT "break loose" the brass fittings on the caliper. They are installed with a thread locker.

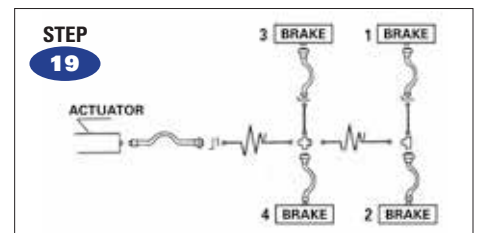
### STEP: 18

Connect bleeder hose to top of bleed screw at the back of the caliper. Bleed system per brake actuator manufacturer recommendations.

**MAKE SURE BLEED SCREW IS POINTING UPWARD**

### STEP: 19

Starting with the caliper farthest from the actuator. Work back toward actuator bleeding all calipers to remove air. Install wheel and tire assembly. Torque wheel nuts per manufacturer recommendations. Take a test drive to check for proper brake operation. If brakes are "spongy", re-bleed as necessary. Kodiak recommends re-bleeding brakes after first 100 miles.



#### IMPORTANT SAFETY NOTICE:

Appropriate installation, maintenance and repair procedures are essential for the safe, reliable operation of trailer running gear as well as the safety of the individual doing the work.

There are numerous variations in procedures, techniques, tools, and parts for servicing hubs, as well as in the skill of the individual doing the work. This instruction sheet cannot possibly anticipate all such variations and provide advise and caution as to each. Accordingly, anyone who undertakes to install, maintain, or repair trailer hubs or brake system components, must first establish that they neither compromise their personal safety nor the vehicle integrity by their choice of methods, tools or parts.

Refer to your trailer manufacturer's owner's manual and other relevant material for additional safety and procedural information prior to performing any service work.

**Kodiak**  
Disc Brakes

**DISC BRAKES FOR**  
MARINE, RV, LIVESTOCK & UTILITY TRAILERS

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