

TITLE: Kodiak Clip Replacement Instructions – Medium Duty		
AFFECTED SITE(s): VARIOUS		DEPARTMENT(s): Quality
Written By: R. Peterson	Approved By:	Revision Date: 08/20/2021

PURPOSE:

To replace non-hardened caliper retaining clip with hardened clip. Use recall code **99.02.12**.

MATERIALS:

- 1) Torque wrench
- 2) Socket wrench
- 3) Sockets
- 4) Towels
- 5) Safety equipment including (but not limited to): safety glasses and steel-toed shoes
- 6) 10-ton jack
- 7) 10-ton jack stands (2)

REPLACING CALIPER HOLD DOWN CLIPS AND BOLTS.

Safety Note:

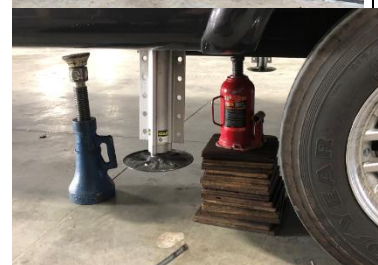
Properly support the trailer with jack stands while working on the trailer.

- 1) Identify unit(s) needing to be inspected based on production dates provided by DRV.

No photo

- 2) Raise and support the trailer.

NOTE: Elevate and support the trailer unit per manufacturers' instructions.



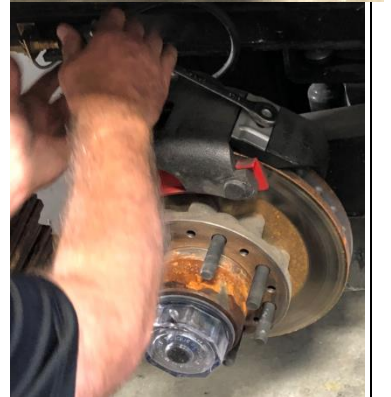
- 3) Remove decorative hub cover with a #3 Phillips screwdriver and set aside.**



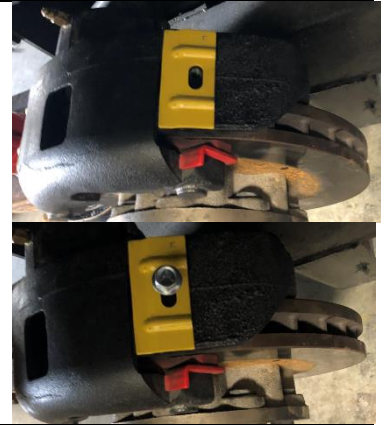
- 3/4) Remove the wheel nuts with an impact gun or breaker bar and 15/16" socket and remove the tire and wheel.
a) Set the wheel and wheel nuts aside.



- 4/5) Remove the caliper hold down clip cap screw, clip, and discard.
a) Socket size is 9/16"
b) Do not remove the caliper.



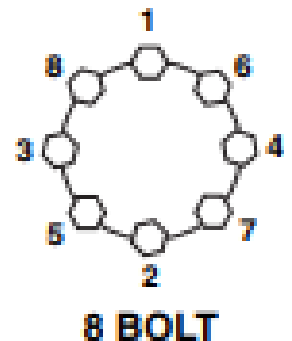
5/6) Install new caliper hold down clip and cap screw.




6/7) Tighten cap screws to 45-50 ft lbs.




7/8) Remount the tire and wheel.
 a) Start the flanged nuts by hand first to prevent from cross threading.
 b) The use of a battery powered driver is acceptable to speed the install of the flanged nuts but do not attempt to torque the nuts with it.
 c) Do final tightening of the wheel nuts with torque wrench set at 160 ft lbs.



<p>8)9) Reinstall decorative hub cover and tighten screws with #3 Phillips screwdriver.</p>	
<p>9)10) Remove the jacks, lower the trailer to the ground, and re-torque wheel fasteners.</p>	<p>No photo</p>

Torque Requirements

It is extremely important to apply and maintain proper wheel mounting torque on your trailer axle. Torque is a measure of the amount of tightening applied to a fastener (nut or bolt) and is expressed as length times force. For example, a force of 90 pounds applied at the end of a wrench one foot long will yield **90 Ft. Lbs.** of torque. Torque wrenches are the best method to assure the proper amount of torque is being applied to a fastener.

 CAUTION
<p>Wheel nuts or bolts must be tightened and maintained at the proper torque levels to prevent loose wheels, broken studs, and possible dangerous separation of wheels from your axle, which can lead to an accident, personal injuries or death.</p>

Level	Date	Reason for change	Writer(s)	Approval
A	8/23/2021	RELEASE	RLP	

recall code **99.02.12**