

Generic Haldex Automatic Brake Adjuster Installation Procedure

The 4-Step Process

Installation Procedures

Note: Configurations of anchor bracket and brake adjuster housing may vary, depending upon axle. Refer to typical applications on pages 3 and 4.

Step 1

Note: Block wheels to prevent vehicle from rolling. Ensure system tank pressure is above 100 psi.

- Check that the push rod is fully retracted; apply air to release spring brake. If air is not available, spring brake must be manually caged.
- Install anchor bracket loosely as illustrated (fig. 13).
- Some strap brackets have two mounting holes. Proper mounting location is determined by the length of adjuster arm. 5" and 5 1/2" adjuster arm lengths utilize the shorter hole location while 6" and 6 1/2" length adjusters utilize the longer hole locations.
- Do not tighten anchor bracket fasteners at this time.
- Apply "Anti-Seize" type lubricant to camshaft splines.

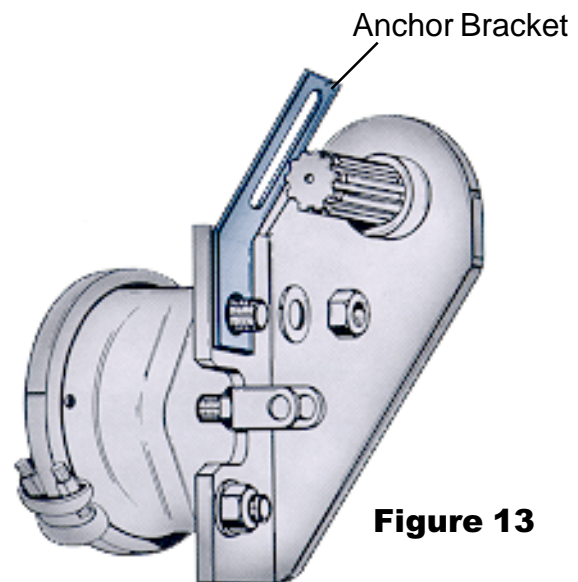


Figure 13

Step 2

- Install the brake adjuster onto the camshaft with the adjusting hex pointing away from the brake chamber (fig. 14).
- Secure the brake adjuster on the camshaft. Use at least one inner washer and enough outer washers to allow no more than .060 movement of adjuster on camshaft. (Per TMC recommended practice RP609-A.)

Note: Do NOT pull push rod out to meet the brake adjuster.

- Rotate the 7/16" adjusting hex nut CLOCKWISE until the clevis hole lines up with the brake adjuster arm hole.
- Apply anti-seize to clevis pin, install and secure with cotter pin.

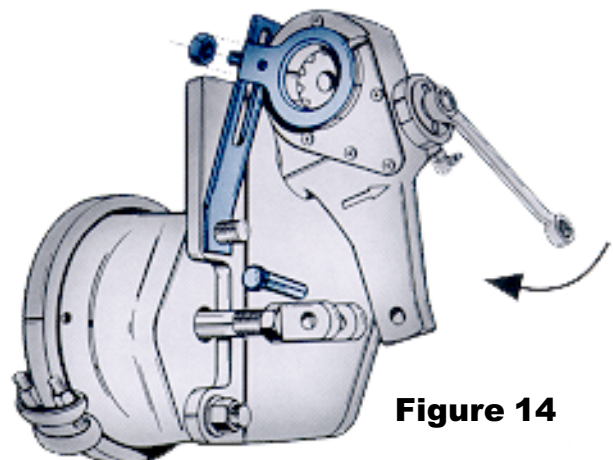


Figure 14

Installation Procedures

Step 3

- Rotate the control arm away from the adjusting hex toward the air chamber, until it comes to a definite internal stop (fig. 15).
- Most adjusters will be equipped with an "Installation Indicator." Indicator must fall within the slot for proper installation with brakes fully released (fig. 16).
- If the control arm position is wrong, tight brakes will occur (fig. 17).
- Tighten all anchor bracket fasteners (make sure the control arm does not move from its position while tightening fasteners).

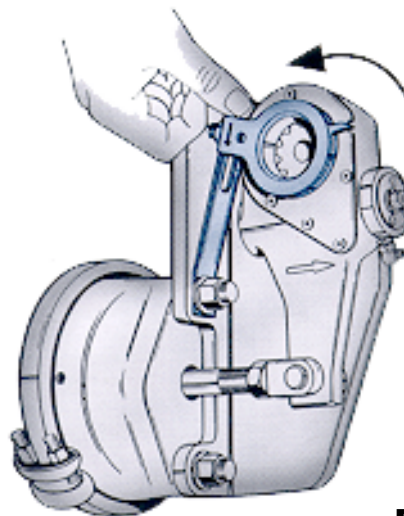
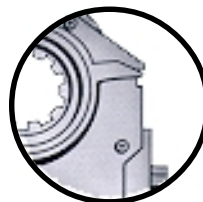


Figure 15

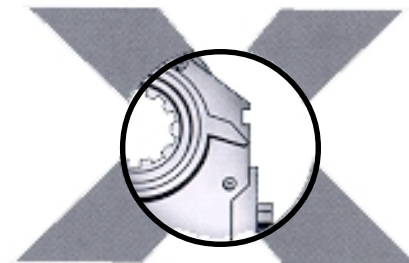
Step 4

- The adjuster must be manually adjusted at this time.
- Rotate the adjusting hex clockwise until the lining contacts the drum.
- Then back-off the adjuster by turning the adjusting hex counter-clockwise 1/2 of a turn (fig. 18).
- A minimum of 13 ft.lbs. is necessary to overcome the internal clutch. A ratcheting sound will be present.
- **Do NOT use an impact wrench or internal damage will occur!**
- **FINAL INSPECTION.** Make sure brakes are still fully released, and check that the "Installation Indicator" is within the slotted area. If out of position, repeat Step #3. (A mis-set control arm can cause a tight brake.)

Note: To ensure proper fit and function, always replace both adjuster and mounting bracket.



CORRECT
(Brakes released)
Figure 16



INCORRECT
(Brakes released)
Figure 17

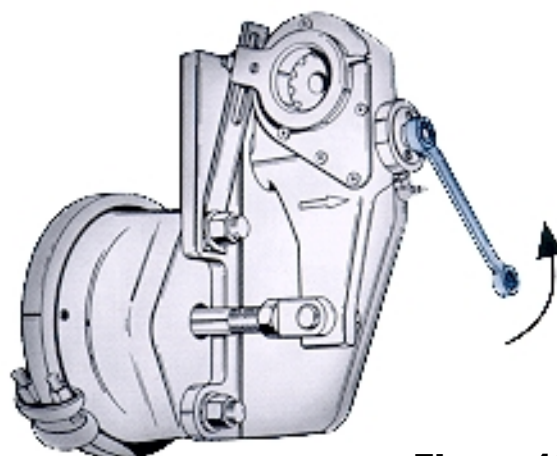


Figure 18

Typical Applications

Steer Axle

Figures 1-4 show typical brackets for automatic brake adjuster applications on steer axle brake assemblies. Refer to pages 1 and 2 for detailed installation procedures.

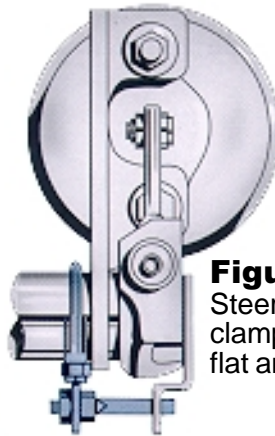


Figure 1
Steer axle with clamp bracket and flat anchor stud.

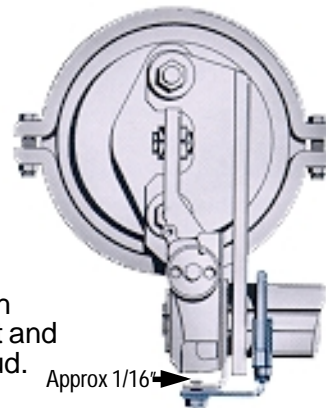


Figure 2
Steer axle with clamp bracket and round anchor stud.

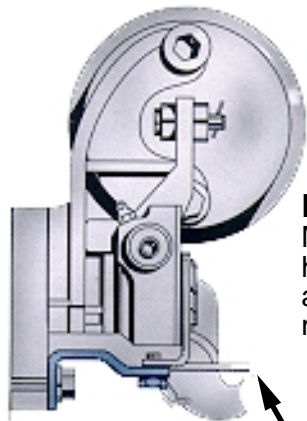


Figure 3
Mack 16,000# or higher rated steer axles with spider mounted bracket.

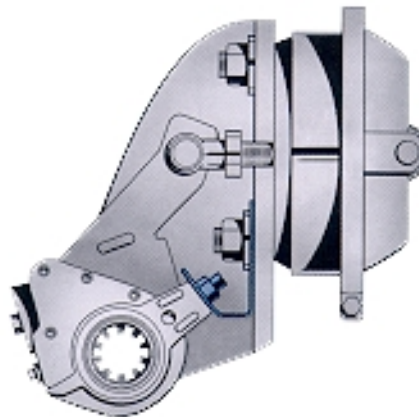


Figure 4
Steer axle with strap bracket.

Approx 1/16"

Drive Axle

Figures 5-8 show typical brackets for automatic brake adjuster applications on drive axle brake assemblies. Refer to pages 1 and 2 for detailed installation procedures.

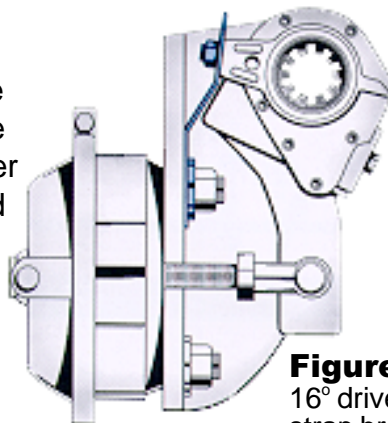


Figure 5
16° drive axle with strap bracket.

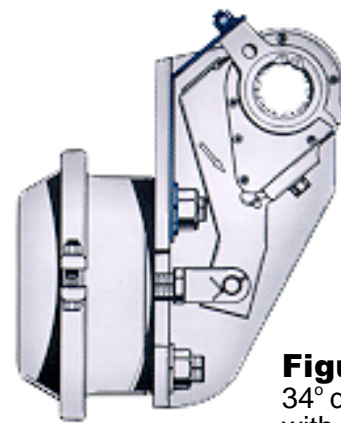


Figure 6
34° drive axle with strap bracket.

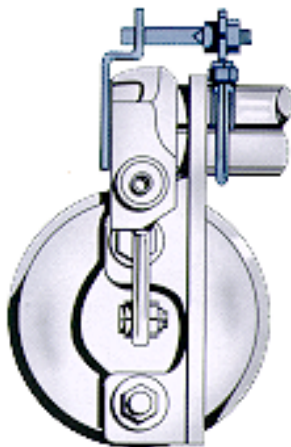


Figure 7
Mack drive axle with clamp bracket and flat anchor stud.

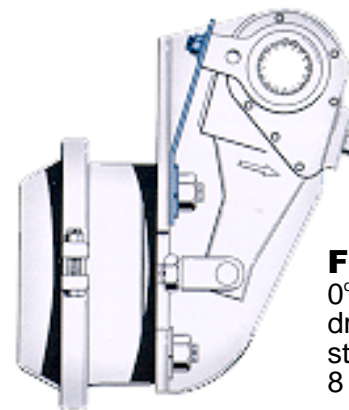


Figure 8
0° Kenworth drive axle with strap bracket, for 8 bag air ride.

Typical Applications

Trailer Axle

Figures 9-12 show typical brackets for automatic brake adjuster applications on trailer axle brake assemblies. Refer to pages 1 and 2 for detailed installation procedures.

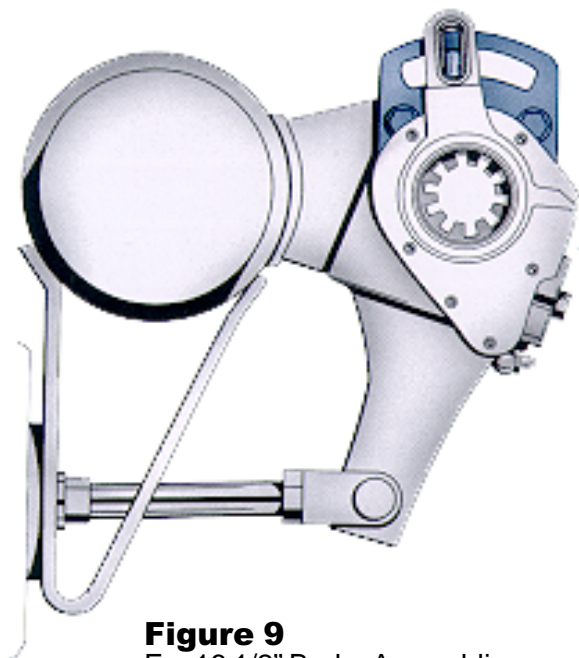


Figure 9
For 16 1/2" Brake Assemblies.



Figure 10
For 12 1/4" Brake Assemblies.



Figure 11
Integral cam support anchor bracket for
12 1/4" and 16 1/2" brakes.

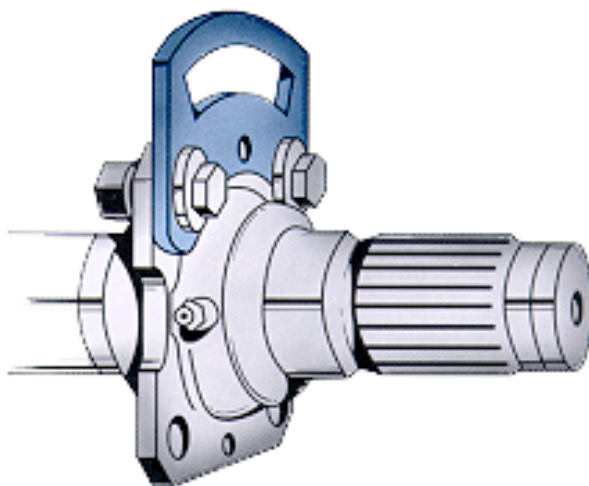


Figure 12
Bolt-on cam support anchor bracket for 12 1/4"
and 16 1/2" brakes.