AA1 and S-ABA Automatic Brake Adjuster Installation Guide (Rev. 2/11)





* Long stroke chambers are identified with square air port or port bosses and special trapezoid ID tags

Adjuster Type	Manufacture Date	Lubrication Interval	Type of Lubricant	Visual Check Interval	Notes:
Standard Adjuster 409-10	Prior to 6/1/96	50,000 miles or every 3 months	Standard Chassis Grease	Each Preventative Maintenance Service Interval	NO-LUDE ^{IN} At without a gree Moly-disulfid affect the fun reduce the re In no case sh published int
Reduced Maintenance Adjuster 409-10	After 6/1/96	Once a year	Standard Chassis Grease	Each Preventative Maintenance Service Interval	
No-Lube™ Adjuster 429-10	After 6/1/96	None	Sealed Unit	Each Preventative Maintenance Service Interval	
S-ABA Adjuster 409-20	n/a	Once a year	Standard Chassis Grease	Each Preventative Maintenance Service Interval	•

Note: Stroke Measurements are taken from face of air chamber to center of clevis pin.

(Refer to Installation Step 6 AA1 and Step 6 S-ABA)

measurement "B" minus "A" is the free stroke. The free stroke range should fall between

3/8" and 3/4".



During normal lubrication intervals, visually inspect brake adjuster, anchor bracket and control arm for damage. Check that anchor bracket and control arm are tight and the control arm is in its correct position.

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should not be used because it may the internal friction clutches and of the automatic adjustment.

lubrication interval exceed the own here.



Maintenance Inspection

Rotate the adjustment hex counter-clockwise approximately one full turn to create excessive lining to drum clearance. Make a brake application; on release observe the adjusting hex rotation. This rotation indicates the adjuster is making an adjustment and is working properly. Attaching a wrench to the adjusting hex will make this rotation easier to see. On each subsequent brake release, the amount of push rod stroke will be reduced until the proper lining to drum clearance is achieved.

BRAKE RELINE/CHECKING PROCEDURE

This Operational Check should also be performed when installing brake linings. If the push rod stroke is incorrect, see the information listed in the Brake Troubleshooting Section.

Operational Check

During reline, check the de-adjustment torque. Place a torque wrench on the adjusting hex. Turn the hex counter-clockwise and check that the clutch does not slip at a torque less than 13 ft. lbs. A ratcheting sound should occur. If the clutch slips at a lesser torque, the adjuster must be replaced. After test, manually adjust as shown in Installation Steps 9 and 10.

FOUNDATION BRAKE AND BRAKE ADJUSTER TROUBLESHOOTING

The adjuster is not a cure-all for foundation brake deficiencies. If the proper push rod stroke and lining to drum clearance can not be maintained, be sure to thoroughly check the other brake components. This could also help to avoid unnecessary adjuster replacement

Troubleshooting Checklist

When checking the foundation brake look for: When checking the adjuster look for:

- Proper push rod stroke
- Proper adjuster installation
- Loose, broken, bent or worn adjuster anchor brackets or control arms
- Worn clutch assembly (see Operational Check)
- Adjuster not fully releasing



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Contact the Haldex Technical Department at 800-643-2374 for further assistance. www.haldex.com

Worn or broken brake components

Worn cam shaft and bushings

Broken shoe return springs

Air chambers not releasing

Loose wheel bearings

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