

BRAKE ADJUSTER

Haldex

S-ABA SELF-SETTING ABA

Stoughton Trailer Brake Adjuster



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S-ABA SELF-SETTING ABA

PRODUCT DESCRIPTION

The unique design of the Haldex S-ABA (Fig 1) makes installation easy, improves performance, maximizes service life, streamlines inventories and interchanges with current Haldex automatic brake adjusters.

The S-ABA is the only self-setting adjuster that establishes its own reference point, the S-ABA control arm (Fig 2) will set itself at any angle within the total range of permissible control arm positions allowed with current adjusters and function properly.

It provides the proper lining to drum clearance - regardless of control arm installation angle. The S-ABA solves adjustment problems caused by incorrect installation, making installation faster, simpler and more efficient.

For improved performance, the S-ABA has a more sensitive adjustment rate to permit the clearance-sensing design to maintain optimal lining to drum clearance. The clearance-sensing design maintains a constant and uniform distance between the brake drum and lining.

The gradual adjustment of the Haldex S-ABA minimizes the risk of over-adjustment during long hard braking, this optimal brake adjustment helps prevent brake wear, which reduces operating and downtime costs.

The S-ABA incorporates several life extending design advances (Fig 3) including heat treated housing to extend service life and minimize internal wear, centralized clutch location to further improve protection from moisture, dirt and road salt. Internal gears made of high-strength, high alloy steel and heat treated to minimize wear, and worm shaft rolled to further increase the shaft's fatigue life.

Inventories are streamlined since the flexibility of the S-ABA control arm position or location can effectively replace several other fixed control arm brake adjusters, lowering handling and storage costs for you the customer.

Fig 1

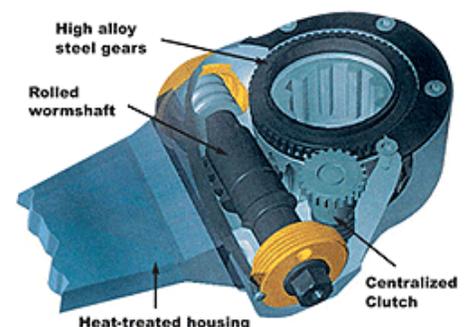


Fig 2



S-ABA allows the control arm to be set at any angle from minus 16 to 124 degrees.

Fig 3



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PRODUCT OPERATION

S-ABA SELF-SETTING ABA

S-ABA Operation

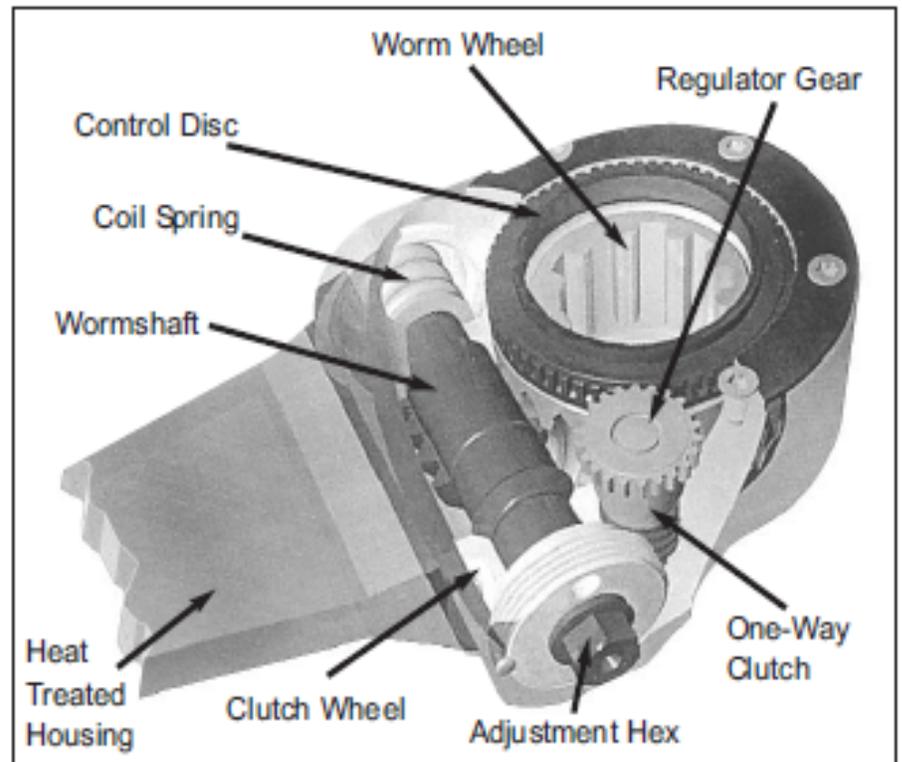
The Haldex S-ABA automatic brake adjuster is a clearance sensing brake adjuster that maintains a nominal distance or clearance between lining and drum.

When the Adjuster is Installed:

With the brake in the released position, the control arm is fixed to the anchor bracket. The adjustment hex is rotated until the shoes contact the brake drum and then backed off 1/2 turn. When the brake is applied on the first application, the endless rack rotates to the correct position and sets itself.

When the Brake Applies:

When the brake is applied, the adjustment regulator rotates through the normal clearance angle and the shoes contact the drum. The torque increases and the wormshaft is moved axially, causing the coil spring to be compressed and the clutch wheel to disengage. The adjustment components are free to rotate as the brake continues to apply.



When the Brake Releases:

When the brake is released, the torque decreases returning the wormshaft to the clutch wheel and re-engaging the teeth. The adjustment regulator rotates through the normal clearance angle and the brake is released. If lining wear has taken place the adjustment regulator advances the clutch wheel reducing the excess clearance during the release stroke.

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ENGINEERING, R & D and WARRANTY

S-ABA SELF-SETTING ABA

ENGINEERING

SABA is manufactured at our plant in Blue Springs Missouri, Engineers based at the same location support the products manufacture and design. We are the global leader in Automatic Brake Adjusters and continually use advances in technology to review and improve our product line up. SABA is no exception and quarter 4 of 2015 saw a further revision to its global leading design to keep us ahead of our competitors by continuing to offer a top quality product at a competitive price point. SABA has undergone changes to the current casting focusing on decreasing stress in critical areas by 5% to as much as 24%* as well as changes to the internal mechanism for increased adjustment accuracy and reliability. Form fit and function has remained the same.

Old Design



New Design *



RESEARCH & DEVELOPMENT

In January of 2014 Haldex built a state of the art 25,500 sq. ft. Engineering and Research facility at MIRA Technology Park in Hinckley , United Kingdom. <http://corporate.haldex.com/en/media/press-releases/2015/haldex-rd-center-at-the-mira-technology-park-officially-opened>

WARRANTY

Haldex prides itself on its quality and warranty offering, being the first to offer a 6 year warranty within the industry it's not just about saying it but proving it. Stoughton Trailers from June 2014 to June 2016 has purchased well over 100,000 adjusters from Haldex and returns to Haldex Central Warranty for the same period are **zero** adjusters. Haldex quality is unquestionable and our continued commitment to research & development is as it always has been to provide a quality product at a competitive price for todays demanding market.

[Original Equipment Warranty Policy](#)

BRAKE ADJUSTER

The Haldex logo consists of the word "Haldex" in a white, sans-serif font, centered within a blue rounded rectangular background.

HALDEX COMPETITIVE ADVANTAGE

S-ABA SELF-SETTING ABA

The design of the Haldex SABA Adjuster is unique within the industry and is repeatedly copied but never bettered. It uses no linkage pin in its design as most of our competitors do, which makes our competitors product susceptible to increased wear points and the rubber boot covering these linkages subject to splits causing leakage allowing contamination of the adjusters mechanism.

Competitors adjusters require a template for installation.

Competitors product require a special two hole clevis for operation, which adds additional wear points as well as additional areas of adjustment slack.

Competitors like Haldex use clearance sensing, but Haldex is the only one that adjusts on the return stroke not the applied stroke when there are 16 times more stresses involved, again Haldex is copied but not bettered.

Haldex is the market leader and has been for many years, we currently have 56 % of the Truck Market and 60 % of the Trailer Market and we continually develop our product to keep this position.

The SABA adjuster comes pre greased, SABA only requires greasing once every 12 months with normal chassis grease.

72 month standard warranty.

Haldex is the ONLY manufacturer to offer a full Truck and Trailer application line, our own competitors supply Haldex within their offering to the OE Market, some have even tried to copy our design

We have a proven long standing delivery performance with Stoughton and as always additional support in respect of sales and engineering is available when required by Stoughton direct from the plant and Corporate Headquarters in Missouri.

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SUPPORTING DOCUMENTATION

FINANCIAL DOCUMENTS LINK

<http://corporate.haldex.com/en/investors/financialreports>

Haldex Adjuster Documents Link

<https://www.haldex.com/en/North-America/products/brake-adjusters/s-aba/>

OEM Warranty Documents & Web Link

[Original Equipment Warranty Policy](#)

<https://www.haldex.com/en/North-America/products/warranty/>

Aftermarket Warranty Policy

https://www.haldex.com/globalassets/north-america/documents/l20220-am-policy_procedure-manual-rev.-1-15.pdf

HALDEX APPS

! Phone

<https://itunes.apple.com/us/app/step-by-step-troubleshooting/id894809020?mt=8>

Android Phone

https://play.google.com/store/apps/details?id=com.haldex.hx_sbs&hl=en