The World’s Most Specified and Trusted **Automatic** Brake Adjuster

Automatic Brake Adjusters

Innovative Vehicle Solutions
Year after year, in market after market, Haldex Automatic Brake Adjusters outsell all other brands. What makes Haldex the leader in North America and in every other major market for commercial vehicles globally? It’s simple. Haldex ABAs are designed and built better than any other automatic brake adjuster. Beginning with clearance-sensing technology that was pioneered by Haldex over 40 years ago, Haldex ABAs incorporate design features that provide reliable and accurate brake adjustment longer.

**Haldex ABA Advantage**

Haldex ABAs deliver unmatched performance over years of service and hundreds of thousands of miles – all the while requiring only minimal maintenance – making them the most cost-effective ABA you can specify. And, they’re backed by the industry’s best ABA warranty.

By constantly maintaining optimum brake lining-to-drum clearance, Haldex ABAs reduce stopping distances and increase driver control and confidence under all conditions. Optimum brake adjustment helps prevent uneven tire and brake wear; reducing a fleet’s operating expenses and downtime costs.

**Innovative Vehicle Solutions**
The unique, fully-sealed control arm eliminates the exposed linkage and rubber boots of linkage style adjusters, improving durability and reliability. Its clearance-sensing design prevents excessive brake wear and failed roadside inspections, which reduces operating and downtime costs. It adjusts during brake release, when forces on the adjuster are at their lowest, to prolong life. And, by eliminating the high cost and maintenance of linkage-style adjusters, the design simplifies installation. The versatile Haldex design is available to fit more applications than any other adjuster with its two ABA models: the S-ABA, a self-setting automatic brake adjuster; and the standard AA1.

S-ABA Revolutionizes Correct Fit

The unique design of the Haldex S-ABA is revolutionizing correct fit with easy installation, improved performance, extended service life and streamlined inventories. The S-ABA is a self-setting adjuster that establishes its own reference point. The S-ABA control arm will set itself at any angle within the total range of permissible control arm positions allowed with current adjusters and function properly.

S-ABA provides the proper lining-to-drum clearance – regardless of the control arm installation angle, which solves adjustment problems caused by incorrect installation.

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 S-ABA lowers the risk of over-adjusting during prolonged braking. This optimal brake adjustment helps prevent brake wear, reducing operating and downtime costs.

Warranty Information

Refer to appropriate warranty policy for complete details:

- L20221 Aftermarket
- L20242 OE

New Technology - Optimized Housing Brake Adjuster

In response to customer demand, Haldex introduces the all new Optimized Housing which improves performance and reliability and has the added bonus of reducing weight in key areas.
S-ABA Automatic Adjuster

The S-ABA incorporates several life extending design advances including: 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 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. And, as with other Haldex automatic brake adjusters, it is easy to check the function of the S-ABA.

Standard AA1 Brake Adjuster

The AA1 has heat-treated internal gears made of high-strength, high alloy steel to withstand wear, and reliable o-ring seals for improved protection from moisture, dirt and road salt. Its easily accessible adjustment hex simplifies adjustment during installation and brake lining replacement – requiring no locking pawls to remove or disengage. And, a built-in visual indicator verifies proper installation at a glance, eliminating the cumbersome templates needed to check other ABAs.
Haldex AA1 and S-ABA
Clearance Sensing on Return Stroke

This method of adjustment provides the optimum performance maintaining drum to lining clearance, not over adjusting and generates lower amounts of torque and stress on internal adjuster components.

Competitive Adjusters - Bendix® and Guinite
Clearance Sensing on Application Stroke

Adjustment on the application stroke creates unnecessary stress on linkage pins and internal adjuster components, lessening overall life of the adjuster.

Competitive Adjusters - Meritor
Stroke Sensing

Stroke sensing models are not as reliable or consistent as clearance sensing models and tend to over-adjust during extended braking applications.

Haldex Clearance Sensing Principle

* Point of disengaging the adjustment mechanism

Stroke Sensing Principle

Can not disengage the adjustment mechanism
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