

Cheap copies cost lives



Haldex

Inferior copies are potential killers



Why take the risk?

Would you choose quality Haldex original parts that maximise safety or low-performance, high-risk copies? Why put lives in danger? Why jeopardise your business? Always fit Haldex original brake parts. Look for the Haldex name on our products – it assures quality and vehicle safety.

A dangerous choice

A vehicle is only as safe as its brake components. Choose poor quality brake parts which fail or disintegrate on the road and the results can be devastating – for the vehicle driver, other road users and pedestrians.

We want to alert you to the dangers of buying inferior copies of Haldex parts. Cheap copies are accidents waiting to happen.

The success of Haldex, the world's leading supplier of automatic brake adjusters for heavy vehicles, is based on high product quality which maximises safety for road users.

Our patent protection has expired. Opportunists are trying to cash in on the reputation of Haldex by making poor quality copies of our parts.

Would you knowingly buy parts which put lives at risk? For safety, it is vital to distinguish between original parts and potential killer copies.

Beware of imitations

Our claims are backed by hard evidence. Haldex test results show that copies:

- wear out far sooner than Haldex originals – some disintegrate during braking tests.
- are made in low-grade materials with inferior processing and inadequate quality control.
- can fail at any time on the road endangering lives.

False economy

Buying copies of Haldex parts is a false economy. Poor-quality parts mean more frequent servicing and higher maintenance costs.

Cheap copies put your business at risk. Defective parts mean more breakdowns. Your service to customers suffers. Customers turn to more reliable competitors who use high quality components.

Tests reveal dangerous defects in clone parts



Breaking points

Cheap copies may appear identical to Haldex parts. On the road, differences in quality and safety soon become evident, as copies wear out, fail or disintegrate with dangerous consequences.

Haldex has the proof to back up its assertions about defective copies.

Some copies last longer than others, but none come even close to the originals. **In tests, no copy has reached more than 50% of the life expectancy of a Haldex original part. Many copies manage only 1%.** Other clones should be labelled fragile – they are not even robust enough to survive installation.

On these pages are examples of component comparison testing carried out, according to Haldex's standards, at the Haldex test lab in Landskrona, Sweden. They represent a typical sample of the inferior quality revealed by tests in a brake simulation chamber. The sample copies came from different non-original part manufacturers.

Copy defects mean danger

- Clutch spring: broken during fitting of automatic brake adjuster.
- Gearwheel: too brittle to survive installation.
- Thrust washer: fell apart after only 1,000 applications.
- Worm shaft: dangerously broken after 500,000 applications.



Short life. Adjuster housing copy: broke after 45,000 applications in a fatigue test. Note cracks and porosity defects. In the same test, a Haldex original lasts 800,000 applications – minimum..



Original



Non-starter
Fragile clutch
spring copy
broke during
installation.



Wearing away
Clone worm shaft:
broken after
0.5 million
applications.



Three-way split
This gearwheel copy broke
before testing
started.



High performer
Original clutch
spring survives
tough testing



Wearing well
Original worm shaft
lasts over 2.5 million
applications



Geared for quality
Original gearwheel designed for
optimum performance
during lengthy
testing.



Long life ahead
Original coil spring lasts at
least 2.5 million
applications.





Safety assured

Now compare clone part performance with the originals. A complete Haldex brake adjuster, and many of its spare parts, is designed to withstand a minimum of 2.5 million applications.

Marking the difference

Using a non-Haldex part in a Haldex brake adjuster not only erodes safety and performance, it also invalidates any Haldex warranty. How can you be sure you are buying Haldex original parts?

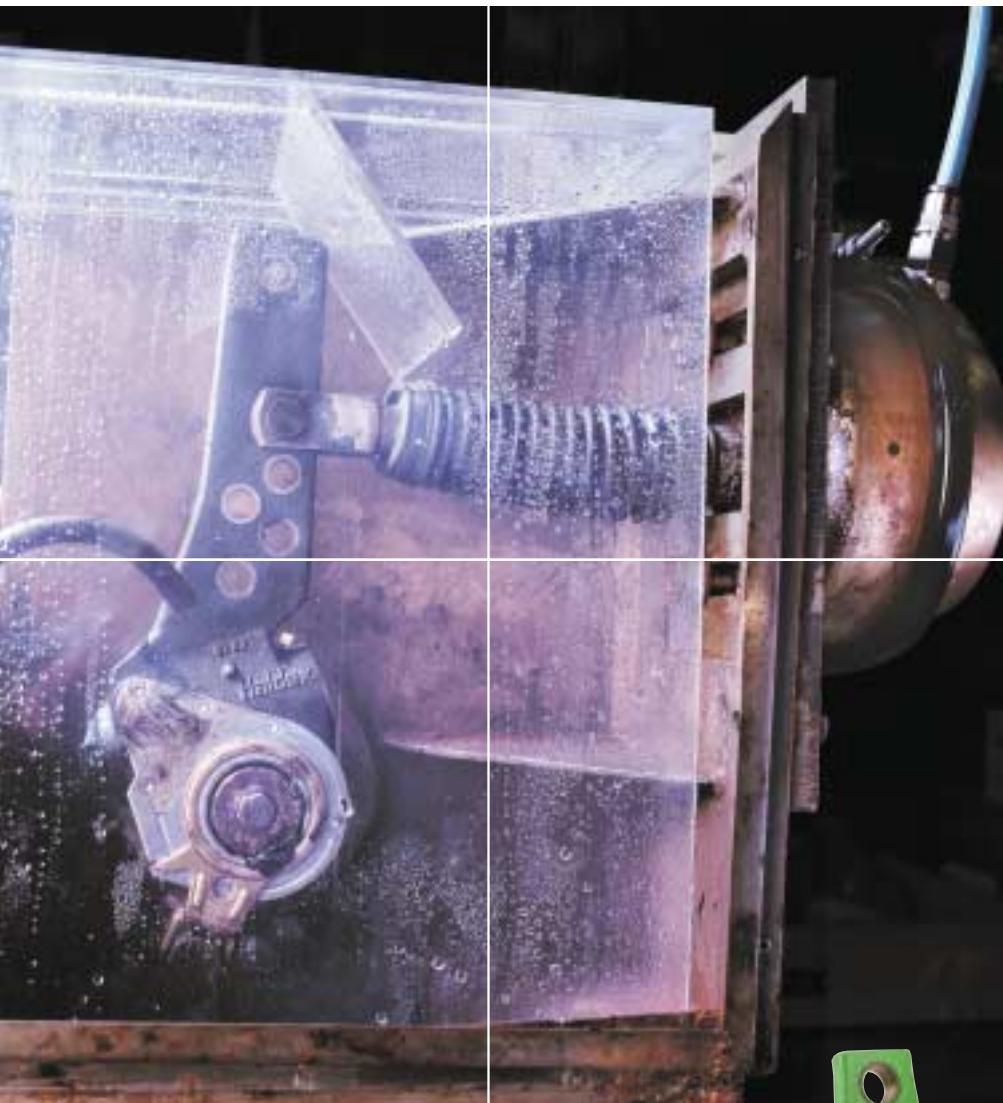
- Haldex parts are recognisable by their distinctive packaging.
- Look for the name you can trust. Almost every original component is marked with the Haldex name.
- Haldex supplies spare parts to all major heavy vehicle producers and leading axle manufacturers. These companies repack-age Haldex branded parts in their own spare part kits, for continued quality assurance.



These are examples of components marked with the Haldex name.



High quality means built-in safety



Haldex quality is:

- **Comprehensive**

Continual investment in R&D, training and manufacturing plants ensures quality in all stages of production.

- **Long-established**

1991 – we became one of the first ISO 9001 certified Swedish companies.

- **Exhaustively tested**

After 30 years of brake adjuster testing at the Haldex brake simulation lab, we are well qualified to judge quality. In the test chamber, brake adjusters face simulated braking forces and driving conditions for up to six months – equivalent to many years on the road.

- **Guaranteed**

Life-saving reliability means longer product guarantees than our rivals'.

- **Profitable**

Our parts offer higher safety and lower maintenance costs.



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Haldex is an innovator in vehicle technology and supplies proprietary products for trucks, cars and industrial vehicles on a global basis. Haldex is listed on the Stockholm Stock Exchange and has annual sales exceeding SEK 6 billion with 4,000 employees worldwide.

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