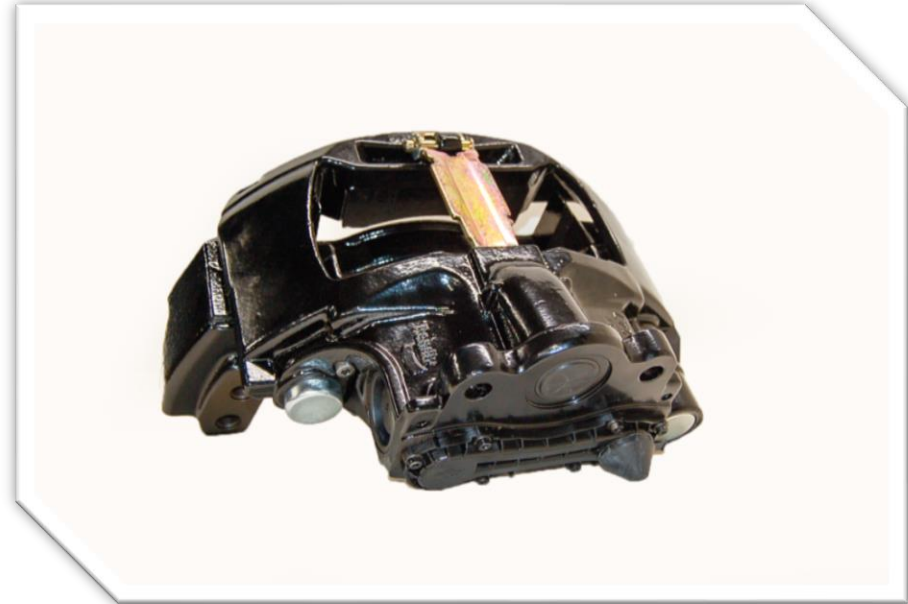


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Air Disc Brake Calipers



25 Years of Air Disc Brake Remanufacturing Experience



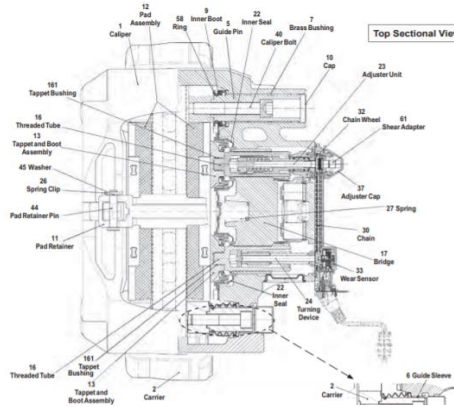
- Every unit is remanufactured to OE specs, making it better than rebuilt, and more cost effective than OE
- Components are cleaned, inspected, and treated with rust preventative coating
- All rubber components, brushings, and guide pins are replaced with 100% new OE quality equivalents
- Castings are coated with a premium protective coating to provide corrosion protection in harsh environments

Coverage of all applications

- Trucks
- Trailers
- Transit Buses
- Motor Coaches
- Fire Trucks
- Waste



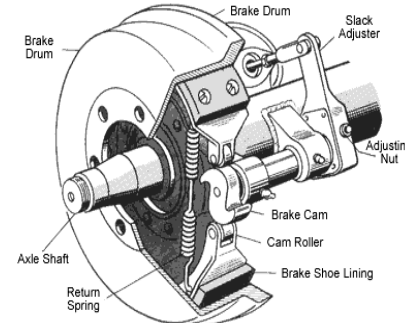
Air Disc Brake Caliper



Pros of Air Disc Brake Calipers

- Designed for performance in extreme conditions
- Lighter weight
- Internal cooling due to increased air flow
- Shorter stopping distance
- Elimination of Brake Fade
- Longer service life of friction material
- Reduced potential for Compliance, Safety, Accountability (CSA) violations

Drum Brake



Courtesy of Allied Bendix Truck Brake Systems Company



Cons of Air Drum Brake

- Performance impacted in extreme conditions
- No internal cooling
- Heavier weight
- Longer stopping distance required
- More Noise
- Longer maintenance time
- More frequent shoe changes

Features	Benefits
Every unit is remanufactured to OE specs, making it better than rebuilt, and more cost effective than OE	Allows for significant cost savings over OE new calipers.
Components are cleaned, inspected, and treated with rust preventative coating	Enables extended rust-free operation and improved overall product life.
Every caliper is tested utilizing OE brake system analyzers	Ensures uniform operation of moving components to provide enhanced quality, superior performance, and reduced maintenance.
All rubber components, brushings, and guide pins are replaced with 100% new OE quality equivalents	Prevents premature failure due to eroding.
Castings are coated with premium coating and baked at 400 degrees	Provides corrosion protection in harsh operating environments and improves visual appearance.

FACT!

Less than 1% warranty return rate on Air Disc Brake Calipers

Bendix ADB22X – Most popular make & model

- ADB22X Family (80% of the truck/trailer market)
- ADB22X has two generations with different adjusters (BBB offers the latest design)
- ADB22LT trailer / lighter weight option replaced the trailer ADB22X
- All are 22.5"
- Same caliper housing fits both radial and axial mount carriers
- Bulk supply with sourcing on 12 part numbers
- Alliance part numbers
 - ABP N42A AK081258 & ABP N42A AK081259
 - ABP N42A AK081142 & ABP N42A AK081143
 - ABP N42A AK081256 & ABP N42A AK081257
 - ABP N42A AK019180 & ABP N42A AK019181
 - ABP N42A AK149714 & ABP N42A AK149715



- SB Family (replaced by the SN family) – motor coach / bus
 - SB5 (17.5”), SB6 (19.5”), SB7 (22.5”)
 - Two versions – axial mount & radial mount chambers
- SN Family (replaced the SB family) – motor coach / bus
 - SN5 (17.5”), SN6 (19.5”), SN7 (22.5”)
- SK Family – very similar to ADB22X – trailers mostly in US
 - SK7 (22.5”) only
- Also have SL & SM family but only in Europe at this point
- Alliance part numbers
 - ABP N42A AK003803 & ABP N42A AK003804
 - ABP N42A AK021991 & ABP N42A AK021992
 - ABP N42A AK002963 & ABP N42A AK002964



■ Meritor

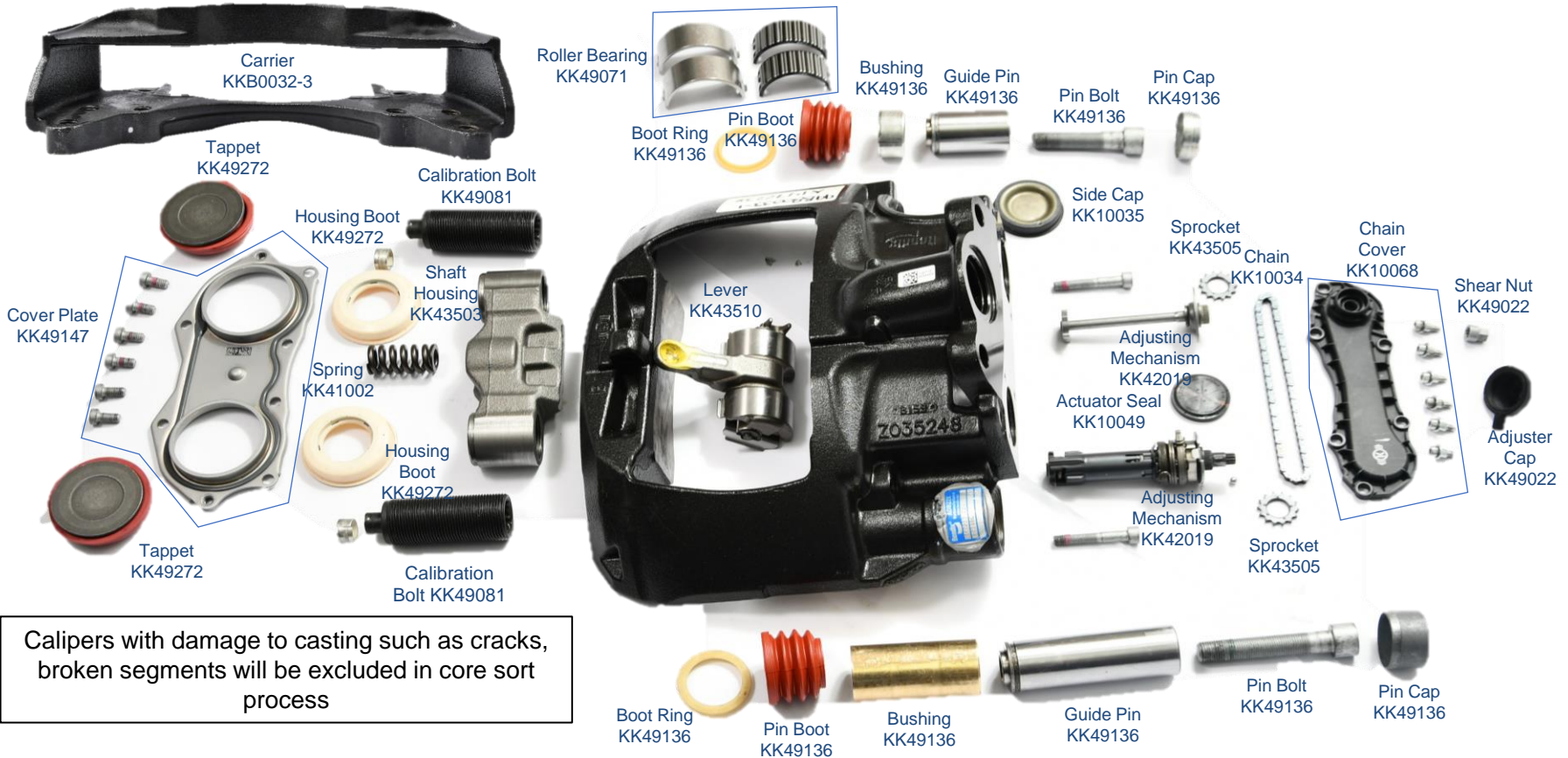
- Duramaster – Old design
 - 1540/1541
 - 1560/1561 – Used on many fire trucks
- Duco (B, C, D , LE versions) – primarily in Europe
- Elsa (1, 2 versions)
- Lisa (C, D versions)
- D3 (2 versions coarse and fine spline shafts)
- DX (DX195 is 19.5”, DX225 is 22.5”)
- EX (EX225 is 22.5”) – Most popular Meritor in current production – also called EX+
 - EX225H – severe duty
 - EX225L – standard version for trailers
 - Over 60 SKUs – mixed with axial & radial mount carriers & chambers
- Alliance part numbers
 - ABP N42A A225H201 & ABP N42A A225H202
 - ABP N42A A225H301 & ABP N42A A225H302
 - ABP N42A A225L201 & ABP N42A A225L202



- PAN Family
 - PAN17 (17.5")
 - PAN19 / PAN19-1 / PAN-2 (19.5")
 - PAN22 / PAN22-1 / PAN22-2 (22.5")
 - PAN25 (25")
- MAXX Family
 - MAXXUS – Freightliner, Western Star only known users
 - MAXX22T – Lighter, trailers, medium duty trucks primarily (class 5-6)
- Alliance part numbers
 - ABP N42A A3220650 & ABP N42A A3220660



Air Caliper Key Reman Features



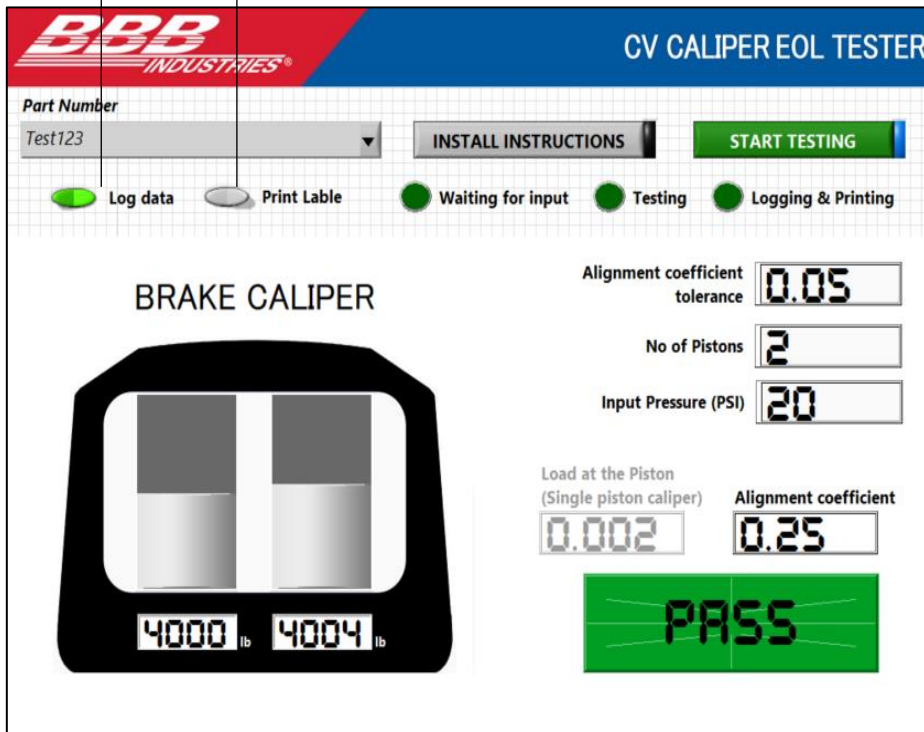
BBB INDUSTRIES PROPRIETARY & CONFIDENTIAL

Part number control by Access database system

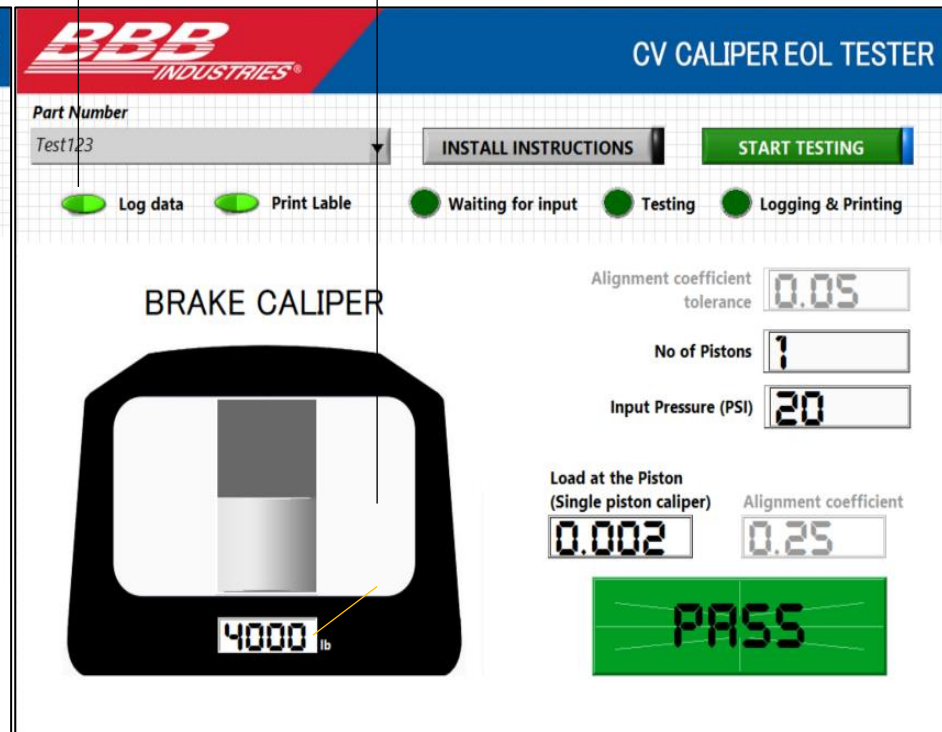
Label print for engraver

Data logging and serialization of every tests conducted on SQL database

Live valued shown during test



Dual piston testing interface



Single piston testing interface

Air Brake Systems Failure Causes

Water, dirt and salt are the main reasons for Air Disc Brake Caliper failure. Over time the moisture breaks through the rubber boots and seals creating rust. The rust build up then locks up the mechanically moving components. Many of the rough environments vehicles operate in can increase their exposure to the elements.

