High performance heavy-duty calipers, carriers and assemblies from the brand you know and trust
Durable ductile iron housing with special formulation provides increased strength and durability under punishing conditions.

Twin return springs with a unique actuation block helps eliminate caliper or lever binding.

Lever profile precision machined to ensure correct brake performance.

Improved sealing gives better protection against water ingress providing longer product life.

Adjustment mechanism, unique to Webb ADB, improves efficiency and helps prevent over-adjustment to reduce pad and rotor wear.
Webb Wheel Products, Inc. is part of Marmon Holdings, Inc., which is a Berkshire Hathaway company consisting of 11 diverse, stand-alone business sectors and about 125 autonomous manufacturing and service businesses worldwide. Revenues totaled approximately $8.1 billion in 2018. Marmon Transportation Products Sector is the organization supporting the heavy-duty highway transportation industry, and Webb Wheel Products, Inc. is a business leader within this sector that focuses on serving its customers with world-class brake solutions.
WEBB Air Disc Brake Calipers are identified by the part number which is marked on the ID plate.

After a long life in service or while still on the vehicle it can be difficult to read the information on the ID plate. Therefore the following can be useful in assisting identification.

1. Looking from the air chamber side (rear), if there are bolts visible as shown, the brake is an MC225 typically used on trucks, trailers and some motor coach vehicles. If there are no bolts the brake is a NS225 typically used on transit buses and other specialized applications.

2. Next, check the air chamber mounting angle. This ranges from “0” degree to “+12” degree.
3 Next, check if the Long Guide Sleeve is on Left or Right as shown.

Left

Right

4 Check the chain cover to determine if it is plain or includes a sensor.

Sensor Plug for Stepped Sensor

Plain (no pad wear sensor)
Caliper Type: NS225

Caliper and Caliper Assemblies
Typically used on transit buses and other specialized applications.

Caliper Replacement Information

<table>
<thead>
<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS225</td>
<td>KL1400</td>
<td>Left long guide sleeve</td>
</tr>
<tr>
<td></td>
<td>KR1400</td>
<td>Right long guide sleeve</td>
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Product Information

<table>
<thead>
<tr>
<th>Applications:</th>
<th>Van Hool / New Flyer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake chamber</td>
<td>0°</td>
</tr>
<tr>
<td>Sensor Type:</td>
<td>None</td>
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Caliper/Carrier Replacement Information

<table>
<thead>
<tr>
<th>Caliper/Carrier</th>
<th>Caliper Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS225</td>
<td>KL1400-01</td>
<td>LH long guide sleeve / 0° mounting angle / no sensor / carrier attached</td>
</tr>
<tr>
<td></td>
<td>KR1400-01</td>
<td>RH long guide sleeve / 0° mounting angle / No sensor / carrier attached</td>
</tr>
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</table>

Carrier Replacement Information

<table>
<thead>
<tr>
<th>Carrier</th>
<th>Caliper Part #</th>
<th>Both right and left long guide sleeves</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS225</td>
<td>KT1001</td>
<td></td>
</tr>
</tbody>
</table>

Installation Kits Include

Guide Sleeves  Pad Retainer  PWW/ Pin

Available Service Kits

Tappet Boot Kit  Guide Sleeve Kit  Chain Cover Kit
| KS0400       | KS0215        | KS0300                                      |

For additional service kits refer to page 12.
Manufacturers’ and other wholesaler’s part numbers used in this catalog are for cross reference purposes only and do not imply anything about the origin or manufacturer of the product.
**Caliper Type: NS225**

Caliper and Caliper Assemblies

Typically used on transit buses and other specialized applications.

**Caliper/Carrier Assemblies**

Part #: KL1400A-01

*Left* long guide sleeve

Part #: KR1400A-01

*Right* long guide sleeve

**Calipers**

Part #: KL1400A

*Left* long guide sleeve

Part #: KR1400A

*Right* long guide sleeve

**Carrier**

Part #: KT1001

**Caliper Replacement Information**

<table>
<thead>
<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
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<tr>
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<td>KR1400A</td>
<td>Right long guide sleeve with stepped sensor</td>
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**Caliper/Carrier Replacement Information**

<table>
<thead>
<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>NS225</td>
<td>KL1400A-01</td>
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<tr>
<td></td>
<td>KR1400A-01</td>
<td>RH long guide sleeve / 0° mounting angle / stepped sensor / carrier attached</td>
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**Carrier Replacement Information**

<table>
<thead>
<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
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**Product Information**

<table>
<thead>
<tr>
<th>Applications</th>
<th>New Flyer</th>
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</thead>
<tbody>
<tr>
<td>Brake chamber mounting angle:</td>
<td>0°</td>
</tr>
<tr>
<td>Sensor Type:</td>
<td>Stepped</td>
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**Installation Kits Include**

- Guide Sleeves
- Pad Retainer
- PWWI Pin

**Available Service Kits**

- Tappet Boot Kit
  - KS0400
- Guide Sleeve Kit
  - KS0215
- Chain Cover Kit with Stepped Sensor (Use with screw-on or clip-on connectors)
  - KS0340

For additional service kits refer to page 12. Manufacturers’ and other wholesaler’s part numbers used in this catalog are for cross reference purposes only and do not imply anything about the origin or manufacturer of the product.

www.WebbADB.com
Caliper Type: MC225

Typically used on standard trailer applications.

Caliper Replacement Information

<table>
<thead>
<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>MC225</td>
<td>BL4400</td>
<td>Left long guide sleeve</td>
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Product Information

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<tr>
<td>Brake chamber mounting angle:</td>
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<td>Sensor Type:</td>
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Caliper/Carrier Replacement Information

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<thead>
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<th>Caliper Type</th>
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<th>Description</th>
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Carrier Replacement Information

<table>
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<tr>
<th>Caliper Type</th>
<th>Carrier Part #</th>
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<tbody>
<tr>
<td>MC225</td>
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<td>Both right and left long guide sleeves</td>
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</table>

Installation Kits Include

- Guide Sleeves
- Pad Retainer

Available Service Kits

- Tappet Boot Kit KS0400
- Guide Sleeve Kit KS0205
- Chain Cover Kit KS0300

For additional service kits refer to page 12.

Manufacturers’ and other wholesaler’s part numbers used in this catalog are for cross reference purposes only and do not imply anything about the origin or manufacturer of the product.
Caliper Type: MC225

Caliper and Caliper Assemblies
Typically used on truck applications.

Caliper/Carrier Assemblies

Part #: BL4700-41
Left long guide sleeve

Part #: BR4700-41
Right long guide sleeve

Calipers

Part #: BL4700
Left long guide sleeve

Part #: BR4700
Right long guide sleeve

Carrier

Part #: BT4041

12° brake chamber mounting angle
PACCAR/Volvo/Navistar style carrier

Caliper/Carrier Assemblies

No cable fitments or sensors

Caliper Replacement Information

<table>
<thead>
<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>MC225</td>
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<tr>
<td>MC225</td>
<td>BR4700</td>
<td>Right long guide sleeve</td>
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Caliper/Carrier Replacement Information

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<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
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<tr>
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<td>LH long guide sleeve / 12° mounting angle / no sensor / carrier attached</td>
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<tr>
<td>MC225</td>
<td>BR4700-41</td>
<td>RH long guide sleeve / 12° mounting angle / no sensor / carrier attached</td>
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Carrier Replacement Information

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<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
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<tbody>
<tr>
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<td>BT4041</td>
<td>Both right and left long guide sleeves</td>
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</tbody>
</table>

Product Information

Applications: PACCAR, Volvo, Navistar

Sensor Type: None

Brake chamber mounting angle: 12°

Installation Kits Include

Guide Sleeves
Pad Retainer

Available Service Kits

Tappet Boot Kit
KS0400

Guide Sleeve Kit
KS0205

Chain Cover Kit
KS0300

For additional service kits refer to page 12.
Manufacturers’ and other wholesaler’s part numbers used in this catalog are for cross reference purposes only and do not imply anything about the origin or manufacturer of the product.

www.WebbADB.com
Caliper Type: MC225

Caliper and Caliper Assemblies
Typically used on truck applications (tangential).

Caliper Replacement Information

<table>
<thead>
<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>MC225</td>
<td>BL4700</td>
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Caliper/Carrier Replacement Information

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<th>Caliper Part #</th>
<th>Description</th>
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Carrier Replacement Information

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<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
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</table>

Product Information

Applications: Freightliner
Brake chamber mounting angle: 12°
Sensor Type: None

Installation Kits Include

Guide Sleeves
Pad Retainer

Available Service Kits

Tappet Boot Kit
KS0400

Guide Sleeve Kit
KS0205

Chain Cover Kit
KS0300

For additional service kits refer to page 12.
Manufacturers’ and other wholesaler’s part numbers used in this catalog are for cross reference purposes only and do not imply anything about the origin or manufacturer of the product.
Caliper Type: MC225

Typically used on 2015+ MCI Coach & ZF Axles

Caliper and Caliper Assemblies

Caliper Replacement Information

<table>
<thead>
<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC225</td>
<td>BL4700-43</td>
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<tr>
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<td>BR4700-43</td>
<td>Right long guide sleeve / 12° mounting angle / no sensor / carrier attached</td>
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Caliper/Carrier Replacement Information

<table>
<thead>
<tr>
<th>Caliper Type</th>
<th>Caliper Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>MC225</td>
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<td>Left long guide sleeve</td>
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<tr>
<td></td>
<td>BR4700</td>
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Carrier Replacement Information

<table>
<thead>
<tr>
<th>Carrier Type</th>
<th>Carrier Part #</th>
<th>Description</th>
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<tr>
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<td>BT4044</td>
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</table>

Installation Kits Include

Guide Sleeves
Pad Retainer

Available Service Kits

Tappet Boot Kit KS0400
Guide Sleeve Kit KS0205
Chain Cover Kit KS0300

Product Information

Applications: 2015+ MCI Coach or ZF Axles
Brake chamber mounting angle: 12°
Sensor Type: None

For additional service kits refer to page 12. Manufacturers’ and other wholesaler’s part numbers used in this catalog are for cross reference purposes only and do not imply anything about the origin or manufacturer of the product.
KITS AND ACCESSORIES

KS0200 Guide Sleeve Kit
NS225

KS0215 Guide Sleeve Kit
NS225
Envirosheild Technology

KS0205 Guide Sleeve Kit
MC225

KS0400 Tappet Boot Kit
MC225, NS225

KS0130 Pad Retainer Kit
MC225

KS0120 Pad Retainer Kit
NS225

KS0140 PWWI Pin
NS225

KS0300 Plain Chain Cover Kit
NS225, MC225
(Use with screw-on or clip-on connectors)

KS0350 Adjuster Cap Kit
MC225, NS225

KS0500 Cap & Grease Kit
NS225

KS0505 Cap & Grease Kit
MC225

KS0010 Caliper Service Tool Kit
MC225, NS225

KS0020 End Cap Fitting Kit
MC225, NS225
1. Adjuster Cap
2. Retainer
3. Adjuster Nut
4. Chain Cover Bolts (7)
5. Long Guide Sleeve End Cap
7. Long Guide Sleeve
8. Brass Bushing
9. Chain Cover
10. Guide
11. Chain
12. Sprockets (2)
13. Secondary Adjuster Assembly
14. Primary Adjuster Assembly
15. Short Guide Sleeve End Cap (MC225 only)
16. Short Guide Sleeve Bolt
17. Short Guide Sleeve
18. Short Guide Sleeve Bushing
19. Cover Bolts (2) (MC225 only)
20. Short Guide Sleeve End Cap (NS225 Only)
21. Short Guide Sleeve with Envirosheild Technology (NS225 Only)
22. Short Guide Sleeve Bushing (NS225 Only)
23. Side Plug
24. Housing
25. Data Plate
26. Guide Sleeve Boots MC225 (2); NS225 (1)
27. Guide Sleeve Washer MC225 (2); NS225 (1)
28. Needle Bearings (2)
29. Pad Retainer
30. Pad Retainer Pin
31. Pad Retainer Washer
32. Pad Retainer Clip
33. Lever Assembly
34. Lever Roller
35. Actuation Block Assembly (Includes block, pistons, tappet bushings, return springs, secondary seals, tappet boots and cover plate)
36. Cover Plate Bolt (6)
37. Plate
38. Air Chamber
39. Inboard Pad
40. Outboard Pad
41. Carrier
42. Brake Disc
43. Hub Assembly
**FITTING INSTRUCTIONS FOR MC225 & NS225 CALIPERS**

**Symbol Legend**
- Warning
- Important Hint
- Specification
- Visual Inspection
- Required
- Take Notes
- Use suitable lifting equipment
- Read Carefully
- Important Torque Spec
- Listen for Clicks

Please pay special attention to instructions in RED.

**Caliper Identification**

**MC225 both bolts visible**

**NS225: No bolts**

DO NOT use air wrenches or hammers. Their use will damage the product, prevent correct function and will void the warranty.

1. Ensure the vehicle is securely chocked before releasing the parking brake. Remove the wheel as recommended by the manufacturer. Cage the spring brake or use a minimum hold off pressure of 90 psi (6 bar). Remove the air chamber and disconnect the pad wear sensor cable (if fitted) from the caliper.

2. Make note of the pad wear warning indicator (PWWI) cable arrangement (if fitted) A and remove the pads and retainer. Remove the pad retainer by removing the clip, washer and pin. B Replace used parts with the new ones provided. Remove both pads and springs and visually inspect; replace if worn or damaged. Remove the guide sleeve protective caps, guide sleeves and bolts.

3. Before removing the guide sleeve bolts, ensure that the caliper cannot move or fall to avoid injury.

Replace used parts with the new ones provided. Remove the old caliper assembly using suitable lifting equipment for the caliper. Visually inspect and, if necessary, clean the carrier and disc; replace if worn or damaged.

4. Remove the new caliper and guide sleeve kit from the packaging. Use suitable lifting equipment for the caliper.

For MC225 see next page.
For NS225 see page 16
Fitting Instructions For MC225 Only (For NS225 see page 16)

4 Grease both guide sleeves using the grease packets provided. Slide the guide sleeves in to the bushings in the directions indicated above.

5 Insert the boots into the sealing groove in the guide sleeves ensuring they seal correctly all around the sleeves.

6 Position the plastic washer over the boots to retain them in the sealing groove in the guide sleeves. Ensure that the washer is in the correct orientation.

7 Ensure the carrier threads are clean, dry and free of lubrication and/or residuals of pre-applied adhesive (the long guide sleeve bolt has a pre-applied adhesive).

8 Insert the protective cap for the long guide sleeve into the caliper bore – protective cap and bore must be clean and free from lubrication. Press the metal protective cap into the long guide sleeve bore ensuring it is seated squarely until the cap is flush with the cast boss.

9 Insert the protective cap for the short guide sleeve into the caliper bore – protective cap and bore must be clean and free from lubrication. Press the protective cap into the bore until the cap protrudes .625” from the cast boss, ensuring it is seated squarely.

This completes steps for MC225, skip to step 10 on page 17 to continue.
Fitting Instructions For NS225 Only (For MC225 see page 15)

1. Grease both guide sleeves using the grease packets provided. Slide the guide sleeves into the brass bushing in the directions indicated above.

2. Insert the boot into the sealing groove in the long guide sleeve ensuring it seals correctly all around the sleeve.

   - Apply a small amount of grease to help the boot slip into the groove.

3. Position the plastic washer over the boot to retain it in the sealing groove in the long guide sleeve. Ensure that the washer is in the correct orientation.

4. Fit the short bolt into the guide sleeve with pre-assembled rubber boot in the direction indicated.

5. Slide the guide sleeve and bolt into the rubber bushing in the direction indicated.

6. Insert the boot into the sealing groove in the housing retainer ensuring it seals correctly all round the groove.

7. Roll the guide sleeve boot bellows back against the housing and push the bolt back into the rubber bushing to provide clearance with the carrier during assembly.

8. Ensure the carrier threads are clean, dry and free of lubrication and/or residuals of pre-applied adhesive (the long guide sleeve bolt has a pre-applied adhesive). If the caliper is being fitted on the vehicle, lift the caliper over the carrier and insert the bolts into the carrier. Use suitable lifting equipment for the caliper. Ensure the correct new bolts are used for each guide sleeve. If the caliper is being fitted away from the vehicle, attach the carrier to the caliper by hand tightening each bolt into the carrier. Then, move the assembly to a vice and ensure the carrier is securely located to resist the bolt torque. Tighten both bolts to 133 ft. lb., then tighten by a further 90 degrees. Check that the caliper slides easily on the guide sleeves.

   - The pre-assembled pad retainer can be used to lift the caliper if done with care. Never hold the caliper with your fingers between the caliper and the carrier - there is a risk of injury.

9. Stretch the rubber bushing bellows over the short guide sleeve and position the plastic cap in the end of the guide sleeve bore – do not push into the bore yet. Slide the bellows back over the plastic cap, ensuring it locates correctly all around the groove, and then push the cap firmly into the guide sleeve so that it clicks into place.

This completes steps for NS225, see next page to finish.
Fitting Instructions Finish for MC225 & NS225

1. If the carrier was removed from the vehicle, reinstall the caliper and carrier assembly in accordance with the vehicle manufacturer’s recommendations. Reconnect the pad wear sensor cable connector (where applicable).
2. Chain cover without pad wear sensor - no action necessary.
3. Chain cover with screw/clip type connector - engage the connector and then clip or tighten the 2 screws.

Ensure the pad wear sensor cable connector is clean and free from grease, dirt and moisture.

4. Slide caliper inboard and insert inner brake pad and spring.
5. Slide caliper outboard and insert outer brake pad and spring.

6. Insert the new pad retainer in the slot in the caliper and depress to enable the insertion of the pad retainer pin. Position the washer over the pad retainer pin.
7. Press the clip through the pad retainer pin to secure. It is recommended that the pad retainer pin, where possible, is installed with pin head uppermost.

8. Refit the pad wear warning indicator (PWWI) cable and clips in the same orientation as when removed. Reconnect the pad wear sensor cable connector (where applicable).
9. Turn the adjuster clockwise until the pads come into contact with the disc - do not exceed 18 ft. lb. torque.
10. Turn back the adjuster 3 clicks and check the pad-to-disc running clearance.
11. Check for free rotation of the disc. Refit the adjuster cap.

Opening or dismantling of the caliper is not authorized and will void your warranty.

12. Remove the adhesive tape in the area of the air chamber attachment. Take care that no dirt enters the brake caliper.
13. Visually inspect and, if necessary, clean the air chamber mounting and sealing surface. Replace if damaged.

If the air chamber seal protrudes less than .188” (3 mm) the brake chamber must be replaced.

14. Reinstall the air chamber in the same orientation as when removed, in accordance with the vehicle manufacturer’s recommendations. Tighten the nuts to 133-155 ft. lb. (unless specified differently in the vehicle manufacturer’s recommendations).
15. In order not to tilt the air chamber during its attachment, the nuts must be gradually tightened symmetrically with a suitable tool.
16. Replace the wheel as recommended by the vehicle manufacturer. Uncage the spring brake and apply the parking brake prior to removing the chocks from the vehicle. After releasing the parking brake, apply the brake 10 times and then road test the vehicle.

For additional information, please visit us at WebbADB.com
Quality Assurance

The end of the line test station shown above ensures correct performance of every caliper we produce. All information generated by our test station is recorded and traceable via the ID tag placed onto every Webb caliper (shown right). The ID tag will only be produced if the caliper passes all internal performance criteria.

Warranty

Webb Air Disc Brake Calipers cannot compensate for other deficiencies in the brake system, therefore, please ensure all other components of the air disc brake system are functioning properly before contacting Webb Wheel Products for warranty consideration. Webb Wheel Products, Inc. ("Webb Wheel") warrants to the original retail purchaser of Webb Air Disc Brake calipers, that when installed and maintained on vehicles in accordance with Webb Air Disc Brake installation and maintenance instructions, the Webb Air Disc Brake calipers will be free of defects in material or workmanship under normal use for a specified period as outlined in: http://webbairdiscbrakes.com/test/warranty.html.

The warranty period begins from the date of purchase from an authorized Webb distributor and should be registered online at http://webbairdiscbrakes.com/test/register.php. If proof of purchase is not provided when filing a warranty claim, the start of the warranty period defaults back to the caliper’s original date of manufacture.
<table>
<thead>
<tr>
<th>Knorr-Bremse/ Bendix Part #</th>
<th>Webb Part #</th>
<th>Knorr-Bremse/ Bendix Part #</th>
<th>Webb Part #</th>
<th>Knorr-Bremse/ Bendix Part #</th>
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<td>BR4700-41</td>
<td>K045793</td>
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