

PRODUCT UPDATE

UTILITY TRAILER MANUFACTURING CO.



PU-08-015

Issue date: October 22, 2018

Product Update
Hendrickson
MAXX22T™ Air Disc Brake Maintenance

Please read the attached product update from Hendrickson regarding MAXX22T™ air disc brake maintenance and inspection.

If you have any questions regarding the information indicated, please call Hendrickson at 1.866.743.3247.

Field Service Department
UTILITY TRAILER MANUFACTURING COMPANY

Utility hasn't independently evaluated the information contained in the attached product information letter from Hendrickson; it is making this available as a convenience and for information purposes. You are encouraged to contact Hendrickson at (1.866.743.3247) if you have any questions concerning the content of the document, or how these issues affect trailers you are servicing.

PRODUCT UPDATE **MAXX22T Air Disc Brake Maintenance**

LIT NO: P76033

DATE: October 2018

Hendrickson Trailer Commercial Vehicle Systems was recently made aware of a bulletin* published by WABCO regarding inspection procedures for PAN and MAXX series air disc brake systems.

Hendrickson has always maintained that thorough, proper and routine maintenance inspections of key MAXX22T™ components should take place within our recommended inspection frequencies. While the perception may be that air disc brakes are maintenance-free, the reality is that, like any other braking system, a regularly planned maintenance schedule is integral to maximizing performance, enhancing safety and achieving optimal life.

Performing regular inspections for integral air disc brake components like brake pads, retaining hardware and calipers can significantly impact system life and performance. Brake life varies depending on the vehicle's duty cycle and operating conditions. Adjusting inspection intervals to account for these differences and ensuring the brakes are serviced before exceeding their wear limits will help maximize system life and performance. As a reminder, Hendrickson has several resources available to assist with determining maintenance intervals and proper maintenance procedures for MAXX22T trailer air disc brake systems. These resources include [T72009](#) MAXX22T Maintenance Procedures and [L578](#) Preventative Maintenance Manual, which are available on Hendrickson's website at www.hendrickson-intl.com.

ITEMS TO CHECK ^{1,3} (RECOMMENDED)	VISUAL, PHYSICAL LUBRICATION ²	INSPECTION INTERVALS					REFERENCE LITERATURE	
		PDI	DAILY	MONTHLY	QUARTERLY	ANNUALLY	LIT. NO.	TITLE OR COMMENTS ^{3,4}
MAXX22T™ ADB							T72009	<i>Installation and Maintenance Procedures</i> Also inspect during brake and wheel-end service. Refer to page 3 for more information.
• Pad wear, retaining springs, bar & mounting holes	V/P				✓			
• Pad retaining springs	V			✓				
• Rotor condition, separation cracks & excessive or abnormal wear	V/P			✓				
• Damage to adjuster, guide pin & piston boots	V/P			✓				
• Presence/Condition of adjuster & guide pin caps	V/P			✓				
Brakes - Air disc								Contact vendor⁷.

Additionally, Hendrickson's online training portal provides step-by-step guidance in the form of videos and training courses. Technicians can log on to www.hendrickson-academy.com to learn about Hendrickson's recommended practices for MAXX22T™ trailer air disc brake systems.

As always, if you have any questions regarding warranty, maintenance or service of MAXX22T air disc brakes, please contact Hendrickson for further details. If you have air disc brakes systems other than MAXX22T, please refer to the specific manufacturer for maintenance recommendations.

**For your reference, WABCO's technical bulletin is included in this announcement.*

Call Hendrickson at 330.489.0045 or 866.RIDEAIR (743.3247) for additional information.



www.hendrickson-intl.com

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WABCO PAN19-1, PAN22-1 AND MAXX22T TRAILER AIR DISC BRAKE INSPECTION

TECHNICAL BULLETIN

WABCO

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EN 1 General Information

Symbols used in this document

DANGER

Description of an immediate situation which will result in irreversible injury or death if the warning is ignored.

WARNING

Description of a possible situation which may result in irreversible injury or death if the warning is ignored.

CAUTION

Description of a possible situation which may result in irreversible injury if the warning is ignored.

NOTICE

Description of a possible situation which may result in material damage if the warning is ignored.



Important information, notes and/or tips



Reference to information on the internet

- Action step
 - Action step
 - ⇒ Consequence of an action

■ List

- List

 **Note on the use of a tool/WABCO tool**

How to Obtain Additional Maintenance, Service and Product Information

If you have any questions about the material covered in this publication, or for more information about the WABCO product line, please contact WABCO Customer Care Center at 855-228-3203, by email at wnacustomercare@wabco-auto.com, or visit our website, www.wabco-auto.com.

General Information

WABCO Academy



<https://www.wabco-academy.com/home/>

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WABCO Online product catalogue



<http://inform.wabco-auto.com/>

Your direct contact to WABCO

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Provisions for a safe work environment

Read and observe all Danger, Warning and Caution hazard alert messages in this publication. They provide information that can help prevent serious personal injury, damage to components, or both.

- Read this publication carefully.
- Follow all warnings, notices and instructions to avoid personal injury and property damage.
- Only trained and qualified technicians may carry out work on the vehicle.
- Always abide by the vehicle manufacturer's specifications and instructions.
- The workplace should be dry, sufficiently lit and ventilated.
- Use personal protective equipment if required (safety shoes, protective goggles, respiratory protection and ear protectors).

WARNING

To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

WARNING

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip or fall over. Serious personal injury and damage to components can result.

WARNING

WABCO air disc brake linings do NOT contain asbestos. However, some manufacturers' brake linings do contain asbestos fibers, a cancer and lung disease hazard. Some brake linings contain non-asbestos fibers, whose long-term effects to health are unknown. You must use caution when you handle both asbestos and non-asbestos materials.

3 Mandatory Air Disc Brake Component Inspection



The following braking system components should be inspected immediately:

- Pad springs
- Pad retainer bar (if applicable)
- Pad-to-caliper abutment (if applicable)
- Caliper guiding pin bearing play (if applicable)

An updated preventive maintenance schedule (included herein) should be followed.

3.1 Inspection Guidelines

NOTICE

This service bulletin does not provide complete service information for individual products referenced within. For appropriate service instructions related to your product visit our website, <http://inform.wabco-auto.com>.

Refer to WABCO Document No. 815 010 109 3, "General Repair and Test Hints", for additional information. During inspection, observe the following guidelines detailed in this reference document.

- Replace damaged equipment components.
- Always use all parts of the repair kit for the equipment.

4 Inspection Procedures

4.1 Pad Spring Inspection

Inspect all wheel end pad retaining springs. Verify the springs are not broken or cracked. Ensure all wheel ends have three complete retaining springs in place. IF all springs are intact, no further action is needed.

If one or more retaining springs is cracked, broken or missing, install all components of a pad service kit; including pads, springs, retainer bar, and all other supplied hardware. Before replacing the pads, an additional inspection of the pad retainer bar and pad-to-caliper abutments, as detailed in this publication, should also be performed. Figure 1 and Figure 2.

Fig. 1

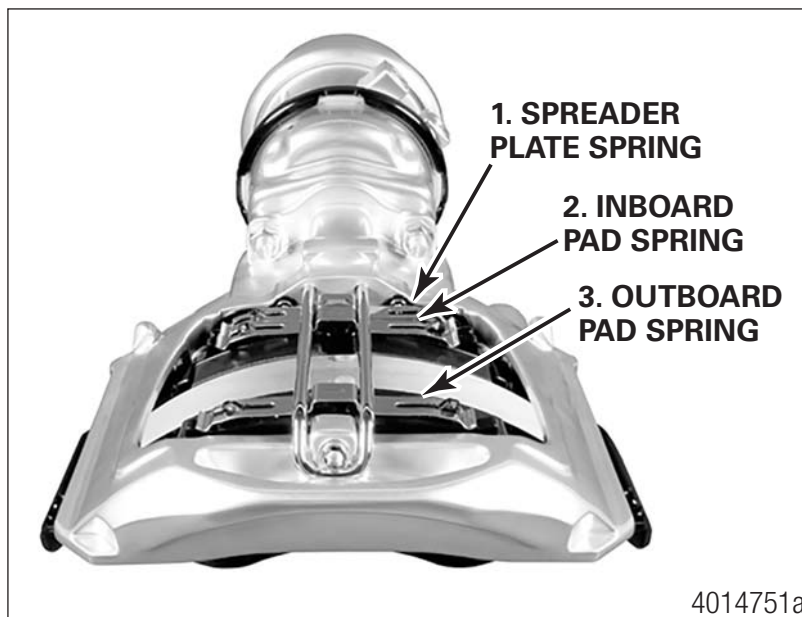
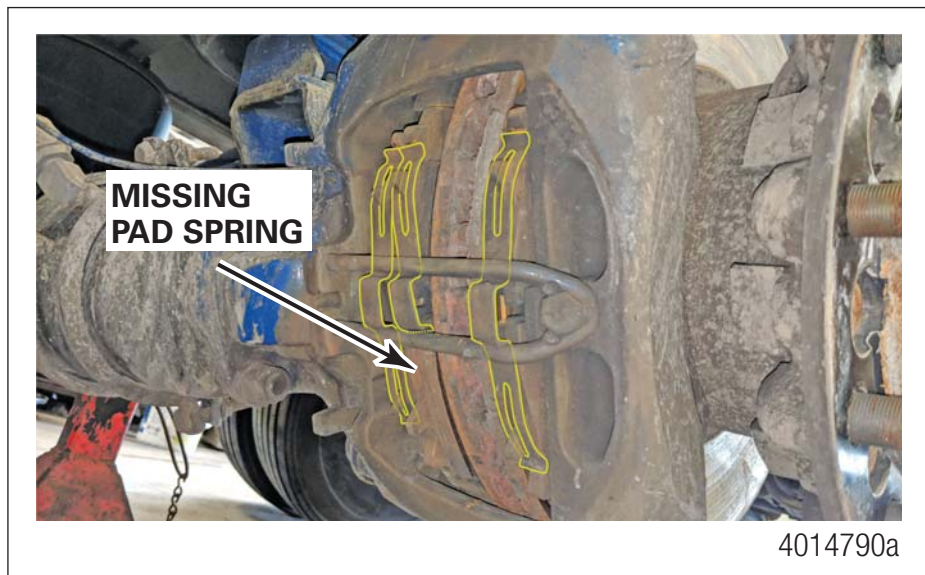


Fig. 2



4.2 Pad Retainer Bar Inspection

EN



Inspect the pad retainer bar mounting holes for excessive wear. If holes appear oblong, measure the holes as shown in Figure 3. If they measure 12 mm (0.472 inches) or more at their widest point, replace the caliper and carrier assembly.

Fig. 3



4.3 Pad-to-Caliper Abutment Inspection

Check depressions on carrier surfaces by running your fingernail over the surfaces (fingernail test). If you notice grooving of pad abutment areas indicated below, replace the caliper and carrier assembly. Figure 4, Figure 5 and Figure 6.

Fig. 4

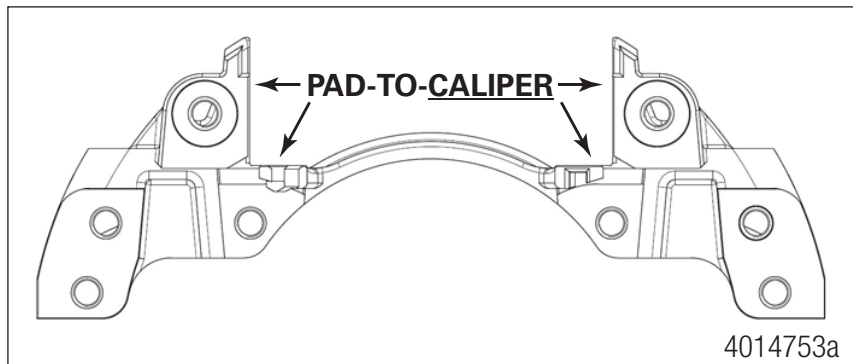
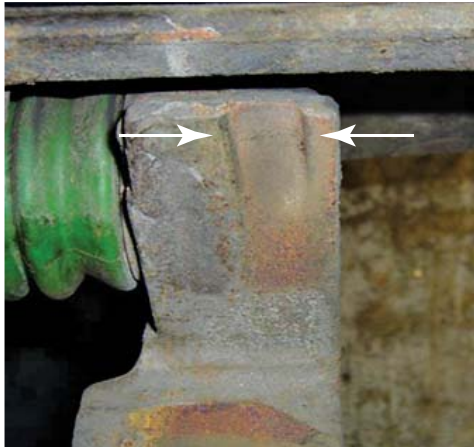


Fig. 5

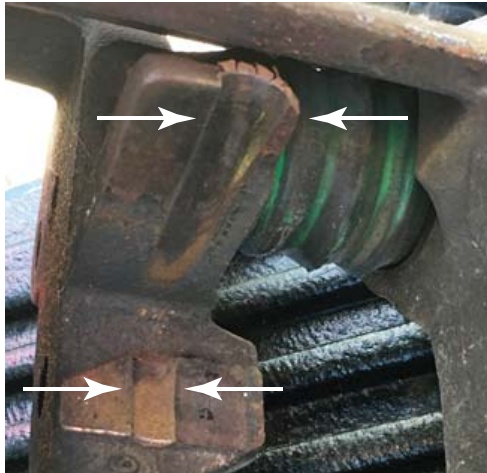
EXAMPLE REQUIRING REPLACEMENT



4014754a

Fig. 6

EXAMPLE REQUIRING REPLACEMENT



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4.4 Caliper Guiding Pin Bearing Play Inspection

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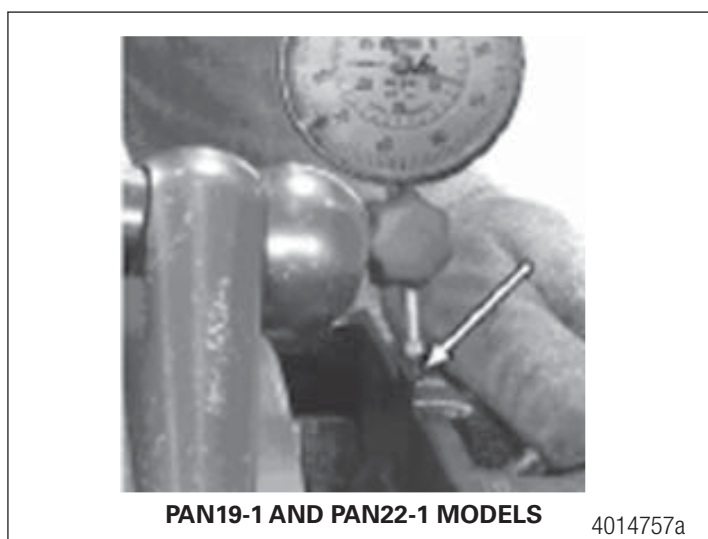
Inspect the guide bushings for excessive play.

1. Press the dial indicator against the measuring point (arrow) on the brake caliper. Figure 7 and Figure 8.

Fig. 7



Fig. 8



2. Applying little force, tilt the caliper as far as possible (direction as illustrated in Figure 9) and set the dial indicator to the value zero.

Fig. 9



3. Now, and again applying little force, tilt the brake caliper as far as possible in the opposite direction.
4. Read the dial indicator. The bearing play must not be greater than 2 mm.
5. If the bushings are worn beyond specification, replace them.



5 Revised Inspection Schedule for WABCO Air Disc Brakes

EN

	Inspection Schedule*		
	Every 6 months (4 months severe duty**)	Every 12 months	Every Pad Change
	Wheel ON	Wheel OFF	
Inspect the pad thickness by visual inspection or measure caliper position with a ruler.	X	X	
Inspect the rotors for cracks through to vent channels, etc. (see manual for details).	X (only visible parts)	X	X
Check boots, seals and end caps for rips, tears, damages, or cracks.		X	X
Inspect all retaining hardware for damage (pad retainer bar, pad springs).	X	X	X
Measure pad wear and inspect all retaining hardware for damage (pad retainer bar, pad springs and mounting holes)		X	X
Check running clearances and adjuster operation.		X	X
Check caliper slide movement (should move easily in and out by hand) and check caliper guiding pin bearing play (see manual).			X
Inspect all caps, hoses, and brake exterior for damage, etc.			X
Ensure brake pad retainer bar is torqued to specification (see manual for details).			X

* Visually inspect the brakes through the wheel during every tire pressure check.

WABCO Warranty Terms & Conditions Defines Standard & Severe Duty Application as follows:

Standard application: Line-Haul/On-highway operation is defined as 100% on-highway use.

**Severe Duty/Off-Highway: e.g. Severe Duty/Off-Highway operation includes, but is not limited to, garbage trucks, cement trucks, logging trucks, oil/gas field trucks, utility trucks, or trucks with mixed on/off highway use.

Note: The table above is meant to provide a guide to maintenance interval planning. However, depending on the particular vehicle's application (e.g., corrosive environment, heavy usage on rough or gravel roads, etc.) more frequent inspections of the braking system components may be necessary

Warranty Information

The inspection procedure presented in this document is intended to reduce, not eliminate, the risk of component failure.

Contact WABCO for warranty support:

WNAcustomer care@wabco-auto.com/ +1 (855) 228-3203

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tance, braking, steering and stability control systems. Powered by its vision for accident-free driving and greener transportation solutions, WABCO is also at the forefront of advanced fleet management systems that contribute to commercial fleet efficiency. In 2017, WABCO reported sales of \$3.3 billion and has nearly 15,000 employees in 40 countries. For more information, visit

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