



SADLER

POWER TRAIN

TRUCK PARTS & SERVICE

SERVICE SMARTS



* For vehicles with electronic wear indicators, use the dash indicator(s) and/or the hand-held diagnostic tool to regularly monitor the pad wear.

Inspection Period (4 to 5 times during the pad lifetime)						
When you check the tire pressures	About every four (4) months for over-the-road applications:		About every three (3) months for higher-duty applications:		At the very least, every four (4) months	At least once every year (and at every pad replacement)
	e.g. line haul, RV, open-highway coaches, etc.	e.g. pick-up & delivery, off-highway, construction, logger, concrete mixer, dump truck, city transit bus, refuse, school buses, etc.				

Inspections with the wheel mounted					
Inspect the pad thickness by checking the mechanical wear indicators*. See Section 2.1.	✓	✓	✓	✓	
Inspect the running clearances using the quick inspection technique. See Section 2.2.	✓	✓	✓	✓	
Inspect the visible part of the rotors for cracks, etc. See Section 2.3.	✓	✓	✓	✓	
Inspections with wheel removed					
Inspect the pads and entire rotor surfaces for cracks, etc. (Bendix® splined disc® rotors: Inspect retaining hardware and check torques) See Section 2.3.					✓
Inspect the running clearances and adjuster operation. See Sections 2.2 and 4.2.					✓
Inspect the caliper travel. See Section 4.1.					✓
Inspect the tappet and boot assemblies. See Section 4.6.					✓
Inspect all caps, hoses, and brake exterior for damage etc.					✓



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Bendix® ADB22X™ Troubleshooting Guide

Component (Item / Condition)	Investigation	Specs	Procedure	What To Replace	
Consumable Items: These are considered to be normal wear items and should be repaired as part of regular preventative maintenance.					
Disc Brake Pads	A Worn	Measure the thickness of the total pad (friction material and backing plate).	Pads must be replaced when they reach 0.433 in. (11 mm).	SD-23-7541 Section 4.3	Replace the pads on both sides of the worn axle.
	B Uneven wear on single pad	Measure the thickness of the total pad in at least 2 places at top and 2 places at bottom, at least 1/2 inch from the edge.	The average difference of top vs. bottom or left vs. right should be no greater than 0.080 in. (2 mm).	SD-23-7541 Section 4.3.2	Replace the pads on both sides of the worn axle and replace the guide pins as needed.
	C Uneven wear on inboard vs. outboard	Measure the pad thickness as described for Item B , but also check guide pin wear and slide-ability.	Average difference inboard to outboard should be no greater than 0.138 in (3.5 mm).	SD-23-7541 Section 4.3.3	
	D Surface damage	Inspect for minor chips near the edge and cracks on face (permitted) vs. major sections damaged or missing.	See <i>Figure 24 in SD-23-7541</i> .	SD-23-7541 Section 4.3.3	Replace the pads on both sides of the worn axle.
Boots & Seals	E Tears & cuts	Inspect the tappet and guide pin boots for cuts, cracks and tears.	Any damage must be repaired.	SD-23-7541 Sections 4.5.4 & 4.6.2	Replace the damaged boots and replace the resultant internal corroded guide pins as needed.
	F Melting	Inspect as Item E , but also check the running clearance before removing the brake pads.	Any damage must be repaired.	See <i>Calipers Item L</i>	
Guide Pins	G Binding	With the pads removed, the caliper should move freely by hand. Re-torque the carrier to torque plate bolts per the OE spec and procedure, if binding.	See <i>Figure 26 (slide) and Table 4 (torque) in SD-23-7541</i> .	SD-23-7541 Sections 4.5.1 & 5.3	Replace the worn guide pins as needed and replace the torque plate if the re-torque procedure does not resolve the issue.
	H Excessive play	Feel for excessive play between the caliper and carrier.	See <i>Figure 27 in SD-23-7541</i> .	SD-23-7541 Section 4.5.2	Replace the worn guide pins as needed.
Rotors	I Worn	Measure the rotor thickness with a long jaw caliper.	Thickness must be greater than 1.46 in. (37 mm).	SD-23-7541 Section 4.4	Refer to the OEM recommendations for non-Bendix® rotors. For Bendix rotors, replace the rotors on both sides of the axle.
	J Surface damage	Minor cracks and grooves are acceptable, but check for cracks over the outside edge.	See <i>Figure 25 in SD-23-7541 for surface details</i> .		Refer to the OEM recommendations for non-Bendix rotors. For Bendix rotors only, replace the rotor that is damaged.
Non-Serviceable: These are non-serviceable items and pending warranty terms; these issues may be covered under warranty.					
Calipers	K Adjuster not rotating	If the 2 nd sheer adapter breaks while turning the 10mm box-end wrench counterclockwise, the adjuster is seized.	Adjuster must turn in both directions with a hand wrench.	SD-23-7541 Section 4.4	Caliper only must be replaced with malfunctioning adjuster.
	L Adjuster too tight, dragging brake	With the brakes released, check the running clearance between the tappet and the inboard pad.	The gap should be between 0.024 in. (0.6 mm) and 0.043 in. (1.1 mm).	SD-23-7541 Section 4.1	



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