

# Bendix® ADB22X™ Troubleshooting Guide

A troubleshooting flowchart is provided in Section 3 of the Bendix® ADB22X™ Service Data sheet (SD-23-7541) and should be used as the process for investigation. The points below provide a quick reference for common component questions, but is not a replacement for the detailed procedures contained in the Service Data sheet.

Component (Item / Condition)		Investigation	Specs	Procedure	What To Replace	
<b>Consumable Items: These are considered to be normal wear items and should be repaired as part of regular preventative maintenance.</b>						
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 <b>Item B</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.	<i>See 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 <b>Item E</b> , but also check the running clearance before removing the brake pads.	Any damage must be repaired.	<i>See 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.	<i>See 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.	<i>See 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.	<i>See 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.
<b>Non-Serviceable: These are non-serviceable items and pending warranty terms; these issues may be covered under warranty.</b>						
Calipers	K	Adjuster not rotating	If the 2 <sup>nd</sup> 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	

