

BENDIX® ADB22X® TROUBLESHOOTING GUIDE

Component (Item / Condition)		Investigation	Specs	See Section(s)	What To Replace
Consumable Items: These are considered to be normal wear items and should be repaired as part of regular preventive maintenance.					
Disc Brake Pads	A	Worn	Measure the thickness of the remaining friction material. Pads must be replaced when they reach 0.080 in. (2 mm) of friction material. - NA CVSA Out of Service limit = .0625 in. (1.6 mm) - US DOT min. pad thickness = .125 in. (3.2 mm) - CA CCMTA min. pad thickness = .080 in. (2 mm)	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 two (2) places at the top and two (2) places at the bottom, at least 1/2 in. from the edge. The average difference of top vs. bottom or left vs. right should be no greater than 0.080 in. (2 mm).	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 above, 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).	4.3.3	
	D	Surface damage	Inspect for minor chips near the edge and cracks on the face (permitted) vs. major sections damaged or missing. See Figure 24.	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.	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 above, but also check the running clearance before removing the brake pads. Any damage must be repaired.	2.2 & 4.6.1	
Guide Pins	G	Binding	With the pads removed, the caliper should move freely by hand. Re-torque the carrier to anchor plate bolts per the OE spec and procedure, if binding. See Figure 26 (slide) and Table 4 (torque).	4.5.1 & 5.3	Replace the worn guide pins as needed and replace the anchor plate if the re-torque procedure does not resolve the issue.
	H	Excessive play	Feel for excessive play between the caliper and the carrier. See Figure 27.	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).	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 inside and outside edges. See Figure 25 for surface details.		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 second shear adapter breaks while turning the 10 mm box-end wrench counterclockwise, the adjuster is seized. Adjuster must turn in both directions with a hand wrench.	4.2	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. (1.2 mm).	4.1	Install and torque the replacement caliper per section 5.3.7.

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A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the American Council on Education Staff text.

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26-Type Air Brake Troubleshooting Guide, 2013 **Owner Manuals for Service and Repair of FMVSS 121 Air Brake Systems. Final Report** S. E. Legum, 1979 , *Federal Motor Vehicle Safety Standard No. 121, Air Brake Systems* United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on Governmental Efficiency and the District of Columbia, 1977 *CDL Study Guide 2025-2026* Jake Nolan, Have you ever wondered what it takes to safely operate a large commercial vehicle on busy highways ensuring not only your safety but also the well being of those around you The responsibility of driving commercial vehicles goes far beyond just knowing how to steer it requires specialized knowledge skill and understanding of complex regulations For those seeking a career in the transportation industry achieving a Commercial Driver s License CDL is the first step towards becoming a skilled and responsible driver This comprehensive guide offers everything you need to know to prepare for the CDL exam and embark on a successful career Whether you re new to the trucking world or are looking to brush up on the essentials this resource covers the critical areas required to pass both the written and skills tests It delves into the various CDL classes and endorsements the handling of hazardous materials the proper operation of air brake systems and much more Beyond the basics of test preparation this guide also focuses on providing practical advice and techniques for becoming a safe confident and professional driver You ll learn how to navigate the complexities of combining vehicles maneuvering large trucks and maintaining safety on the road under different conditions Each chapter is designed to break down the most challenging aspects of commercial driving offering expert insights tips and strategies that will help you succeed not only in passing the CDL test but also in your day to day driving career In addition to the technical skills and knowledge the guide emphasizes the importance of responsible driving and safety As a commercial driver you re tasked with more than just getting from one place to another You re entrusted with the safety of your cargo your passengers and everyone else on the road This book helps you understand the gravity of this responsibility while giving you the tools to handle the challenges that come with it Whether you re preparing for the exam or already on your journey as a commercial driver this guide will serve as a valuable resource to help you succeed and maintain the highest standards of safety and professionalism on the road **Instructor Guide, Introduction to 62B30, Technical Instruction**, 1987 **Brake Repair and Maintenance Guide: A Comprehensive Guide to Keeping Your Brakes Safe** Pasquale De Marco, 2025-05-03 In a world where vehicles are our chariots brakes stand as the guardians of our safety This comprehensive guide to brake repair and maintenance is your trusted companion on the road to automotive mastery Delve into the intricacies of brake systems from the fundamentals of drum and disc brakes to the advanced technology of anti lock brake systems ABS Understand how each component works how to diagnose common problems and how to perform essential repairs and maintenance tasks With clear instructions detailed illustrations and expert advice this book empowers you to take control of your vehicle s braking system Step by step guides walk you through

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