

## Bendix® ADB 22X™, ADB 225™, SN6™, SN7™, SK7™ Air Disc Brakes

### DESCRIPTION

Bendix® Air Disc Brakes use a floating caliper design to provide foundation braking on all axles of heavy commercial vehicles, buses and trailers. Bendix Air Disc Brakes provide safety and performance, as well as ease of service. Available in models with or without a combination spring brake unit, these brakes may also include optional wear sensors and/or wear diagnostic equipment.

### OPERATION

Bendix Air Disc Brakes convert air pressure into braking force. (See Figure 2.) When the vehicle brakes are applied, air enters the service brake chamber through the supply port, applying pressure within the diaphragm. The pressure expands the diaphragm, applying force to, and moving the pressure plate and pushrod forward. The pushrod acts against a cup in the internal lever which pivots on an eccentric bearing moving the bridge. Moving against a return spring, the bridge transfers the motion to two threaded tubes and tappets, which move the inner brake pad. The inner brake pad (from its normal position of having a running clearance between it and the rotor) moves into contact with the brake rotor. Further movement of the bridge forces the caliper, sliding on two stationary guide pins, away from the rotor, which pulls the outer brake pad into the rotor. The clamping action of the brake pads on the rotor applies braking force to the wheel.

### Brake Release and Adjustment

When the vehicle brakes are released, the air pressure in the service brake chamber is exhausted and the return springs in the chamber and the bridge return the air disc brake to a neutral, non-braked position. To maintain the running clearance gap between the rotor and the brake pads over time, the non-braked position is mechanically adjusted by a mechanism in the caliper. The adjustment mechanism operates automatically whenever the brakes are activated, to compensate for rotor and brake pad wear and to keep the running clearance constant. During pad or rotor maintenance, the technician manually sets the system's initial non-braked position. The total running clearance (sum of clearances on both sides of the rotor) should be between 0.024 to 0.043 in. (0.6 and 1.1 mm).



FIGURE 1 - BENDIX® ADB 22X™ AIR DISC BRAKE

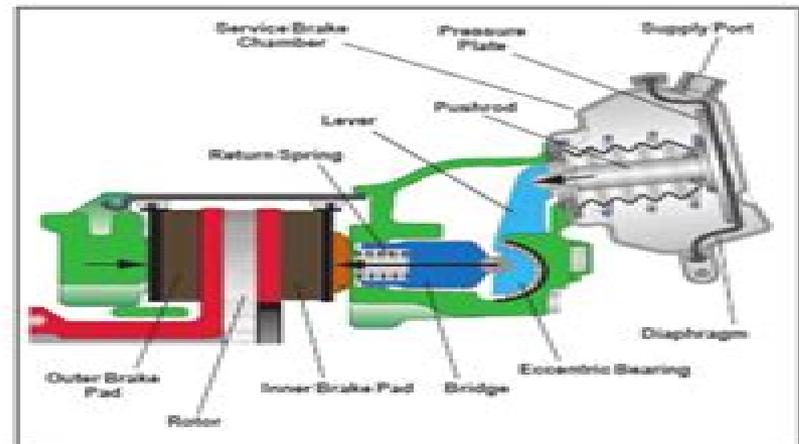


FIGURE 2 - CROSS-SECTION VIEW SHOWING BRAKE OPERATION

# Bendix Air Disc Brakes Manual

**Clifford Lane**



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## **Table of Contents Bendix Air Disc Brakes Manual**

1. Understanding the eBook Bendix Air Disc Brakes Manual
  - The Rise of Digital Reading Bendix Air Disc Brakes Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Bendix Air Disc Brakes Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Bendix Air Disc Brakes Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Bendix Air Disc Brakes Manual
  - Personalized Recommendations
  - Bendix Air Disc Brakes Manual User Reviews and Ratings
  - Bendix Air Disc Brakes Manual and Bestseller Lists

5. Accessing Bendix Air Disc Brakes Manual Free and Paid eBooks
  - Bendix Air Disc Brakes Manual Public Domain eBooks
  - Bendix Air Disc Brakes Manual eBook Subscription Services
  - Bendix Air Disc Brakes Manual Budget-Friendly Options
6. Navigating Bendix Air Disc Brakes Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Bendix Air Disc Brakes Manual Compatibility with Devices
  - Bendix Air Disc Brakes Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Bendix Air Disc Brakes Manual
  - Highlighting and Note-Taking Bendix Air Disc Brakes Manual
  - Interactive Elements Bendix Air Disc Brakes Manual
8. Staying Engaged with Bendix Air Disc Brakes Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Bendix Air Disc Brakes Manual
9. Balancing eBooks and Physical Books Bendix Air Disc Brakes Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Bendix Air Disc Brakes Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Bendix Air Disc Brakes Manual
  - Setting Reading Goals Bendix Air Disc Brakes Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Bendix Air Disc Brakes Manual
  - Fact-Checking eBook Content of Bendix Air Disc Brakes Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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