

## Bosch BS151

# Bosch Automotive BS151 Drum Brake Shoe Set Instruction Manual

Model: BS151

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Bosch Automotive BS151 Drum Brake Shoe Set. Designed for select American Motors, Bricklin, Ford, Hudson, Jeep, Mercury, and Plymouth vehicles, these brake shoes offer consistent, superior braking performance with 100 percent asbestos-free friction formulations.

Key features include rust inhibitive coating for durability, OE-style design for proper fit, and 100 percent new steel construction for long life. Pins and levers are included where applicable to facilitate installation.

## 2. SAFETY INFORMATION

**WARNING: Improper installation or maintenance of brake components can lead to serious injury or death. Brake system work should only be performed by qualified and experienced automotive technicians.**

- Always consult your vehicle's specific service manual for detailed instructions and torque specifications.
- Wear appropriate personal protective equipment, including safety glasses and gloves, when working on brake systems.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work.
- Do not reuse worn or damaged brake components.
- Keep brake fluid away from painted surfaces and skin.

## 3. PACKAGE CONTENTS

Your Bosch Automotive BS151 Drum Brake Shoe Set package typically includes:

- Drum Brake Shoes (set of 4 for one axle)
- Pins and levers (where applicable for specific vehicle applications)



Figure 3.1: Bosch BS151 Drum Brake Shoes in their original box, showing two brake shoes and the product packaging.



Figure 3.2: A complete set of four Bosch BS151 Drum Brake Shoes, illustrating the components for one axle.

## 4. INSTALLATION

The following steps provide a general overview for installing drum brake shoes. Always refer to your vehicle's specific service manual for detailed, model-specific instructions.

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Loosen lug nuts, then raise the vehicle and secure it with jack stands. Remove the wheel and tire assembly.
2. **Drum Removal:** Carefully remove the brake drum. This may require releasing the parking brake cable tension or using a drum puller if seized.
3. **Old Shoe Removal:** Take a clear photograph of the existing brake shoe assembly for reference. Disconnect the return springs, hold-down springs, and parking brake lever. Remove the old brake shoes.
4. **Inspection and Cleaning:** Inspect the wheel cylinder for leaks and the drum for excessive wear or scoring. Clean the backing plate thoroughly, removing all dust and debris. Apply a thin layer of high-temperature brake lubricant to contact points on the backing plate.
5. **New Shoe Installation:** Assemble the new Bosch BS151 brake shoes with the parking brake lever and springs according to your reference photo and vehicle service manual. Ensure pins and levers are correctly positioned.
6. **Adjustment:** Adjust the star wheel adjuster to ensure the brake shoes are properly positioned within the drum, allowing for slight drag when the drum is reinstalled.
7. **Reassembly:** Reinstall the brake drum, wheel, and tire assembly. Lower the vehicle and torque the lug nuts to manufacturer specifications.
8. **Final Checks:** Pump the brake pedal several times to seat the shoes. Check the brake fluid level and top off if

necessary. Perform a test drive in a safe area to ensure proper braking function.



Figure 4.1: Close-up view of two Bosch BS151 Drum Brake Shoes, highlighting the friction material and integrated hardware.

## 5. OPERATING AND BREAK-IN PROCEDURE

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After installing new brake shoes, a proper break-in procedure is crucial for optimal performance and longevity.

### 5.1 Function of Drum Brake Shoes

Drum brake shoes are designed to press against the inner surface of a rotating brake drum, creating friction that slows or stops the vehicle. The friction material on the shoes converts kinetic energy into heat, which is then dissipated.

### 5.2 Break-in Procedure

Follow these steps to properly break in your new Bosch drum brake shoes:

1. Drive the vehicle at a moderate speed (e.g., 30-40 mph).
2. Apply the brakes moderately (not aggressively) to slow down to about 10 mph. Do not come to a complete stop.
3. Release the brakes and drive for a short distance (e.g., 30 seconds) to allow the brakes to cool.
4. Repeat this process approximately 10-15 times.
5. Avoid hard braking or prolonged braking during the first 200 miles after installation.

This procedure helps to properly seat the brake shoes to the drum surface and cure the friction material, preventing premature wear and ensuring consistent braking performance.

## 6. MAINTENANCE

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Regular inspection and maintenance are vital for the safety and performance of your vehicle's braking system.

- **Routine Inspection:** Have your brake system, including drum brake shoes, inspected by a qualified technician at least once a year or every 12,000 miles, or as recommended by your vehicle manufacturer.
- **Check for Wear:** During inspection, check the thickness of the friction material on the brake shoes. Replace shoes if the friction material is worn down to the rivets or if less than 1.5mm of material remains.
- **Drum Condition:** Inspect brake drums for excessive wear, scoring, or cracks. Drums may need to be machined or replaced if they are beyond service limits.
- **Cleanliness:** Keep the brake assembly free of excessive dust and debris. Brake dust can be harmful; use an approved brake cleaner and follow safety precautions.

- **Hardware:** Ensure all springs, adjusters, and other hardware are in good condition and properly installed. Replace any corroded or damaged components.

## 7. TROUBLESHOOTING

If you experience any issues with your drum brakes, consult a qualified technician. Below are common symptoms and potential causes related to brake shoes:

Symptom	Potential Cause (Brake Shoe Related)
Squealing or Grinding Noise	Worn-out shoes (metal-on-metal), improper break-in, contaminated friction material, loose hardware.
Reduced Braking Performance	Worn shoes, glazed shoes/drums, improper adjustment, contaminated friction material.
Brake Pedal Pulsation	Out-of-round brake drums (not directly shoe-related but affects shoe performance), uneven shoe wear.
Dragging Brakes	Over-adjusted shoes, seized wheel cylinder, damaged return springs.

Always address brake issues promptly. Do not attempt to drive a vehicle with compromised braking performance.

## 8. SPECIFICATIONS

Specification	Detail
Model Number	BS151
Brand	Bosch
Manufacturer	Bosch Automotive
Item Weight	5.5 pounds
Product Dimensions	1 x 1 x 1 inches (Packaging/Shipping dimensions, actual shoe dimensions vary by application)
Friction Material	100% Asbestos-Free
Construction	100% New Steel
Exterior Finish	Machined
Application	Rear Drum Brake Systems (Compatible with select American Motors, Bricklin, Ford, Hudson, Jeep, Mercury, Plymouth)





## 9. WARRANTY AND SUPPORT



For specific warranty information regarding your Bosch Automotive BS151 Drum Brake Shoe Set, please refer to the documentation included with your purchase or visit the official Bosch Automotive website. Bosch stands behind its products, offering quality and reliability.

For technical support, product inquiries, or warranty claims, please contact Bosch Automotive customer service through their official channels. You can often find contact information on the product packaging or on the Bosch Automotive



Related Documents - BS151

	<p><a href="#">Bosch 1987 432 598 Cabin Air Filter Installation Guide for Ford Galaxy, Kuga, Mondeo, S-Max, C-Max</a></p> <p>Detailed installation instructions for the Bosch 1987 432 598 cabin air filter. This guide provides step-by-step instructions and compatibility information for Ford Galaxy, Kuga, Mondeo, S-Max, and C-Max models.</p>
	<p><a href="#">Bosch CDR Software 25.1 Vehicle Coverage List</a></p> <p>Bosch CDR Software 25.1 provides a comprehensive vehicle coverage list, detailing supported makes, models, and modules for crash data retrieval. Essential for accident reconstruction professionals.</p>
	<p><a href="#">Bosch ADS Software Update Ver 6.6 - March 2025 - Enhanced Vehicle Coverage and Features</a></p> <p>Detailed release notes for Bosch ADS Software Update Ver 6.6, released March 2025. Includes new vehicle coverage for 2024-2025 models, over 10,000 special tests, ADAS calibrations, and expanded diagnostic functions for numerous automotive brands.</p>
	<p><a href="#">How to Image Data from Jeep DMSM Camera Module (DCM) using CDR Tool</a></p> <p>Step-by-step instructions for imaging data from Jeep Cherokee and Wagoneer DMSM Camera Modules (DCM) using the Bosch CDR tool and associated cable 851. Covers direct-to-module and on-vehicle connections.</p>

	<p><a href="#">Bosch TPA 300 Quick Start Guide: Automotive TPMS Diagnostic Tool</a></p> <p>Get started quickly with the Bosch TPA 300, a professional diagnostic tool for automotive tire pressure monitoring systems (TPMS). Learn about its features, included accessories, and basic operation.</p>
	<p><a href="#">Bosch OBD1200 CodeConnect® User Guide: Automotive Diagnostics</a></p> <p>Comprehensive user guide for the Bosch OBD1200 CodeConnect® automotive diagnostic scan tool. Learn about its features for reading DTCs, viewing live data, troubleshooting, and vehicle compatibility.</p>