Bosch BS703

BOSCH BS703 Drum Brake Shoe Set User Manual

Model: BS703 | Brand: Bosch

1. Product Overview

The BOSCH BS703 Drum Brake Shoe Set is engineered to provide consistent and superior braking performance for your vehicle's rear drum brake system. Manufactured with 100 percent asbestos-free friction formulations, these brake shoes are designed for extended wear and reliable stopping power. The set features an OE-style design to ensure proper fitment and includes a rust inhibitive coating to prevent corrosion and enhance durability. Pins and levers are included where applicable, offering a complete kit for straightforward installation.



Image 1.1: The BOSCH BS703 Drum Brake Shoe Set, shown in its retail packaging, highlighting the brand and product type.

2. Safety Information

Always prioritize safety when working on vehicle braking systems. Improper installation or maintenance can lead to serious injury or vehicle damage. If you are unsure about any step, consult a qualified automotive technician.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning work. Never rely solely on a jack.
- Disconnect the vehicle's battery if instructed by the vehicle manufacturer's service manual.
- Avoid inhaling brake dust. Use a brake cleaner and proper ventilation.
- Do not reuse worn or damaged brake components.
- After installation, pump the brake pedal several times to ensure proper brake shoe adjustment and fluid pressure before driving.

3. Installation Guide

This section outlines the general steps for installing the BOSCH BS703 Drum Brake Shoe Set. Refer to your vehicle's specific service manual for detailed instructions and torque specifications relevant to your make and model.

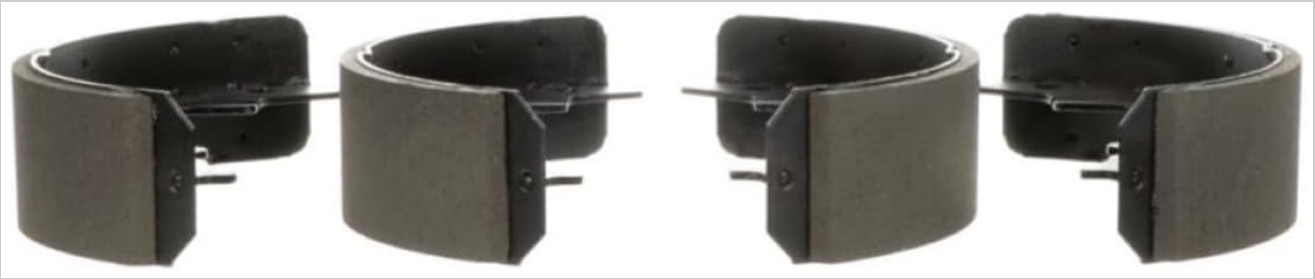


Image 3.1: The four individual BOSCH BS703 drum brake shoes, ready for installation.

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Loosen the lug nuts on the rear wheels. Raise the rear of the vehicle using a jack and secure it with jack stands. Remove the rear wheels.
2. **Drum Removal:** Carefully remove the brake drum. This may require tapping with a rubber mallet or using a drum puller if it is seized. Be cautious of brake dust.
3. **Old Shoe Removal:** Take a clear photo of the existing brake assembly for reference. Using appropriate brake spring tools, carefully remove the return springs, hold-down springs, and the old brake shoes. Disconnect the parking brake cable from the lever on the old shoe.
4. **Inspection:** Inspect the wheel cylinders for leaks and the brake drum for excessive wear, scoring, or cracks. Replace any damaged components. Clean the backing plate thoroughly.
5. **New Shoe Installation:** Lubricate the contact points on the backing plate with high-temperature brake grease. Attach the parking brake lever to the new leading shoe (if applicable). Install the new BOSCH BS703 brake shoes, ensuring all springs, adjusters, and hold-down pins are correctly positioned according to your reference photo and vehicle service manual.
6. **Adjustment:** Adjust the star wheel adjuster to ensure the brake shoes are just touching the drum. The drum should slide on with a slight drag.
7. **Reassembly:** Reinstall the brake drum, wheels, and lower the vehicle.
8. **Final Check:** Pump the brake pedal repeatedly until a firm pedal is achieved. Check the brake fluid level and top up if necessary. Test drive the vehicle in a safe area at low speed to ensure proper braking function.

4. Functionality

Drum brake shoes are a critical component of a drum brake system. When the brake pedal is pressed, hydraulic pressure forces the wheel cylinders to push the brake shoes outwards against the inner surface of the rotating brake drum. This friction generates the necessary force to slow down or stop the vehicle. The BOSCH BS703 shoes are designed to provide optimal friction and heat dissipation for reliable and consistent stopping power.



Image 4.1: A stack of BOSCH BS703 drum brake shoes, illustrating their robust construction and friction material.

5. Maintenance

Regular inspection and timely replacement of brake shoes are essential for maintaining vehicle safety and performance.

- **Routine Inspection:** During tire rotations or other vehicle servicing, inspect the brake shoes for wear, cracks, or contamination (e.g., oil, grease). Check the brake drum for excessive scoring or heat spots.
- **Wear Limit:** Replace brake shoes when the friction material thickness reaches the manufacturer's specified minimum, typically around 1.5mm to 2mm, or if they show signs of uneven wear.
- **Cleaning:** Periodically clean brake dust from the drum brake assembly using an approved brake cleaner. Avoid using compressed air without proper dust containment.
- **Parking Brake:** Ensure the parking brake mechanism operates freely and is properly adjusted.

6. Troubleshooting

Common issues related to drum brake shoes and potential solutions:

Symptom	Possible Cause	Solution
Squealing or Grinding Noise	Worn shoes, contaminated friction material, improper installation, glazed drums.	Inspect and replace worn shoes, clean or replace contaminated shoes/drums, re-install correctly.
Weak Braking Performance	Worn shoes, improper adjustment, contaminated shoes, faulty wheel cylinders.	Inspect and replace worn shoes, adjust shoes, clean/replace contaminated parts, check wheel cylinders.
Brake Dragging	Over-adjusted shoes, seized parking brake cable, faulty wheel cylinders.	Adjust shoes correctly, inspect parking brake cable, check wheel cylinders.
Vibration or Pulsation	Out-of-round drums, uneven shoe wear.	Inspect and machine or replace drums, replace shoes.

7. Specifications

- **Brand:** Bosch
- **Model Number:** BS703
- **Item Weight:** Approximately 5.4 pounds
- **Package Dimensions:** Approximately 9.92 x 9.09 x 5.12 inches
- **Friction Material:** 100% Asbestos-Free
- **Construction:** 100% all new steel
- **Features:** Rust inhibitive coating, OE-style design, includes pins and levers (where applicable)

8. What's in the Box

The BOSCH BS703 package typically includes:

- 1 x Brake Shoe Set (containing 4 individual brake shoes)

9. Warranty and Support

Bosch products are manufactured to high-quality standards. For specific warranty information regarding your BOSCH BS703 Drum Brake Shoe Set, please refer to the warranty documentation included with your purchase or visit the official Bosch Automotive website. For technical support or inquiries, please contact Bosch customer service through their official channels.

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