Power Stop B445

Power Stop B445 Autospecialty Brake Shoe Instruction Manual

Model: B445 | Brand: Power Stop

1. Product Overview

The Power Stop B445 Autospecialty Brake Shoes are designed for reliable performance in drum brake systems. These semi-metallic brake shoes are engineered for professional installation, featuring a post-cured formulation for enhanced braking power and reduced break-in time. Each shoe is precision arc ground to ensure proper fitment within the brake drum. Constructed from 100% new steel with a black coating, they offer resistance against rust. The design incorporates chamfers to promote quiet operation and prevent chatter during braking. All materials used are 100% asbestos-free.

Image: Power Stop B445 Autospecialty Brake Shoes, showing the product packaging and the brake shoes themselves. The packaging highlights features like "Precision Arc Ground" and "100% Asbestos Free".

2. Key Features

- **Semi-Metallic Composition:** Engineered for durability and consistent braking performance.
- **Post-Cured:** Enhances initial braking power and reduces the required break-in period.
- **Precision Arc Ground:** Ensures accurate fitment to the brake drum for optimal contact.
- **Asbestos-Free:** Manufactured without asbestos for safety.
- **New Steel Construction:** Made from 100% new steel, black coated for rust resistance.
- **Chamfered Edges:** Designed to minimize braking noise and chatter.
- **Dimensions:** Bonded; 10 inches x 2.5 inches, Heavy Duty.

Image: A set of four Power Stop B445 Autospecialty Brake Shoes, showcasing their arc-ground friction material and steel backing plates.

3. Compatibility and Fitment

It is crucial to verify that the Power Stop B445 Autospecialty Brake Shoes are compatible with your specific vehicle's make, model, and year before installation. Incorrect fitment can lead to improper braking function

and safety hazards. Always consult your vehicle's service manual or use a reliable fitment guide to confirm compatibility.

Image: A digital interface for selecting vehicle type, year, make, and model to confirm product compatibility. This tool helps ensure the correct part is chosen for a specific vehicle.

Note: Some vehicle models, even within the same year range, may have variations in brake system components. For example, certain Dodge/Plymouth models may require a specific hole shape (round vs. triangular) for the anchor pin, which can affect spring and parking brake lever installation. Always compare the new brake shoes with the original components to ensure all mounting points and features match.

4. Installation Guidelines

Installation of brake shoes requires specialized tools and knowledge. It is highly recommended that installation be performed by a qualified automotive technician. Improper installation can compromise vehicle safety and braking performance.

General Steps (Professional Installation Recommended):

1. **Safety First:** Ensure the vehicle is securely lifted and supported on jack stands. Disconnect the battery if working near electrical components.
2. **Remove Wheel and Drum:** Carefully remove the wheel and then the brake drum to expose the existing brake shoe assembly.
3. **Document Existing Setup:** Take photographs or make diagrams of the existing brake shoe assembly, including spring placement and hardware, before disassembly. This will aid in correct reassembly.
4. **Remove Old Shoes:** Using appropriate brake tools, carefully remove the retaining springs, hold-down pins, and the old brake shoes. Be cautious of brake dust, which may contain harmful particles.
5. **Inspect Components:** Inspect the brake drum for wear, scoring, or cracks. Check wheel cylinders for leaks and the parking brake cable for proper function. Replace any worn or damaged components.
6. **Clean Backing Plate:** Clean the brake backing plate thoroughly, removing any rust or debris. Apply a thin layer of high-temperature brake lubricant to the contact points where the shoes slide.
7. **Install New Shoes:** Install the new Power Stop B445 Autospecialty Brake Shoes, ensuring all springs, hold-down pins, and the parking brake lever (if applicable) are correctly reattached according to your vehicle's specifications and your documentation.
8. **Adjust and Bleed:** Adjust the brake shoes to the drum and, if necessary, bleed the brake system according to the vehicle manufacturer's instructions.
9. **Reassemble:** Reinstall the brake drum and wheel.
10. **Test Braking:** After installation, perform several low-speed stops in a safe area to properly seat the new brake shoes and ensure correct operation.

Image: A close-up of a mechanic's hands installing brake components on a vehicle, highlighting the precision required for brake system work.

5. Maintenance

Regular inspection and maintenance of your vehicle's brake system are essential for safety and longevity. It is recommended to have your brake shoes inspected during routine vehicle servicing, typically every 12,000 to 15,000 miles or as recommended by your vehicle manufacturer.

- **Inspect for Wear:** Check the friction material thickness. Replace shoes if they are worn down to the rivets or if the friction material is less than 1/16 inch (1.5 mm) thick.
- **Check for Contamination:** Look for oil, grease, or brake fluid contamination on the shoes, which can severely reduce braking effectiveness.
- **Examine Drums:** Inspect brake drums for excessive wear, scoring, or out-of-round conditions. Drums may need to be machined or replaced if damaged.
- **Verify Hardware:** Ensure all springs, adjusters, and hold-down pins are intact and properly tensioned. Replace any corroded or stretched springs.
- **Wheel Cylinder Inspection:** Check wheel cylinders for leaks. Leaking cylinders should be replaced immediately.

6. Troubleshooting Common Issues

If you experience any issues with your drum brake system, consult a qualified technician. Below are some common symptoms and potential causes:

Symptom	Possible Cause
Squealing or Grinding Noise:	Worn brake shoes, contaminated shoes, worn drums, or improper installation.
Reduced Braking Performance:	Worn shoes, contaminated shoes, faulty wheel cylinders, or improper adjustment.
Brake Dragging:	Over-adjusted shoes, seized wheel cylinder, or faulty parking brake mechanism.
Vibration During Braking:	Out-of-round brake drums or unevenly worn shoes.

Always address brake issues promptly. Do not operate a vehicle with compromised braking capabilities.

7. Specifications

Model Number: B445

Part Type: Autospecialty Brake Shoe

Material: Semi-metallic, 100% new steel backing

Asbestos Content: 100% Asbestos-Free

Dimensions: 10 in. x 2.5 in. (Bonded, Heavy Duty)

Position: Rear

Item Weight: Approximately 6.13 pounds

Product Dimensions: 11.2 x 9.1 x 4.3 inches

Manufacturer: Power Stop

8. What's in the Box

Each package of Power Stop B445 Autospecialty Brake Shoes typically contains:

- Brake Shoe Set (quantity as required for one axle)

9. Warranty and Support

For information regarding product warranty, returns, or technical support, please refer to the official Power Stop website or contact their customer service department directly. Keep your purchase receipt as proof of purchase for any warranty claims.
You can visit the official Power Stop store for more information:Power Stop Store