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› Power Stop B705 Rear Autospecialty Brake Shoes User Manual

Power Stop B705

Power Stop B705 Rear Autospecialty Brake Shoes User Manual

Model: B705 | Brand: Power Stop

1. PRODUCT OVERVIEW

The Power Stop B705 Rear Autospecialty Brake Shoes are engineered for reliable stopping power and durability. These semi-metallic brake shoes are designed to meet the demanding requirements of professional installers, offering enhanced performance and a precise fit.

Key Features:

- 100% copper-free formulation.
- Precision cam ground for exact fitment to the drum.
- Secondary post-cure process for increased brake power and reduced break-in time.
- Asbestos-free construction for safety.
- Chamfers designed to ensure noise-free braking without chatter.
- Constructed from 100% new steel with a black coating for rust resistance.

Compatibility:

These brake shoes are specifically designed for the rear axle of the following vehicles:

- Ford Ranger
- Mazda B2300
- Mazda B2500
- Mazda B3000
- Mazda B4000



Image 1.1: Power Stop B705 Rear Autospecialty Brake Shoes, showing the product packaging and the brake shoes.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

2. INSTALLATION GUIDELINES

Installation of brake components requires mechanical expertise and specialized tools. It is highly recommended that installation be performed by a qualified automotive technician. Improper installation can lead to brake failure, serious injury, or death.

Required Tools (Typical):

- Jack and jack stands
- Wheel lug wrench
- Drum brake spring tool kit
- Brake cleaner
- Gloves and safety glasses

- Torque wrench

General Installation Steps (Consult Vehicle Service Manual for Specifics):

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the front wheels. Loosen the rear wheel lug nuts, then raise the rear of the vehicle with a jack and secure it with jack stands. Remove the rear wheels.
2. **Remove Brake Drum:** Carefully remove the brake drum. If the drum is stuck, use a rubber mallet or a drum puller. Be cautious of brake dust, which may contain asbestos in older systems.
3. **Inspect Existing Components:** Before removal, take a photo or make a diagram of the existing brake shoe assembly to aid reassembly. Inspect the wheel cylinder for leaks and the drum for excessive wear or scoring.
4. **Remove Old Brake Shoes:** 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 brake shoe.
5. **Clean and Lubricate:** Clean the backing plate thoroughly with brake cleaner. Apply a thin layer of high-temperature brake lubricant to the contact points on the backing plate where the brake shoes slide.
6. **Install New Brake Shoes:** Attach the parking brake lever to the new Power Stop B705 brake shoe. Install the new brake shoes onto the backing plate, ensuring all springs, pins, and adjusters are correctly positioned according to your vehicle's service manual or your reference diagram.
7. **Adjust Brake Shoes:** Adjust the star wheel adjuster to ensure the brake shoes are just touching the inside of the brake drum. The drum should slide on with a slight drag.
8. **Reassemble:** Reinstall the brake drum, wheels, and lower the vehicle. Torque lug nuts to manufacturer specifications.
9. **Final Checks:** Pump the brake pedal several times to seat the new shoes and adjust the parking brake if necessary. Test drive the vehicle in a safe area to ensure proper brake function.



Image 2.1: A technician's hands working on a vehicle's brake system, illustrating the installation process.



Image 2.2: Close-up view of the Power Stop B705 Autospecialty Brake Shoes, highlighting their design and material.

3. BREAK-IN PROCEDURE

Proper break-in (also known as bedding-in) is crucial for optimal performance and longevity of your new brake shoes. The Power Stop B705 brake shoes feature a secondary post-cure process for a shorter break-in time, but following these steps is still important:

1. **Initial Steps:** Perform 5-6 moderate stops from 30 mph (48 km/h) down to 10 mph (16 km/h). Allow a few seconds between stops for the brakes to cool slightly. Avoid coming to a complete stop during this phase.
2. **Cool Down:** Drive for several minutes at a moderate speed without applying the brakes to allow them to cool down completely.
3. **Avoid Hard Braking:** For the first 200 miles (320 km) after installation, avoid sudden, hard braking or prolonged heavy braking. This allows the brake shoes to fully conform to the brake drums.
4. **Normal Driving:** After the initial break-in, you can resume normal driving. The brake shoes will continue to bed-in during regular use.

During the break-in period, you may notice a slight odor or reduced braking performance. This is normal and will subside as the shoes bed-in.

4. MAINTENANCE AND CARE

Regular inspection and maintenance are essential to ensure the safety and performance of your vehicle's braking system. Follow your vehicle manufacturer's recommended maintenance schedule.

Inspection Guidelines:

- **Visual Inspection:** During tire rotations or other service, visually inspect the brake shoes for wear, cracks, or damage. Check for any signs of oil or grease contamination.
- **Lining Thickness:** Monitor the thickness of the brake shoe lining. Replace shoes when the lining wears down to the minimum recommended thickness, typically around 1.5mm (1/16 inch), or as specified by your vehicle manufacturer.
- **Drum Condition:** Inspect the brake drums for scoring, cracks, or excessive wear. Drums may need to be resurfaced or replaced if damaged.

- **Hardware:** Check all brake hardware (springs, adjusters, pins) for corrosion, wear, or damage. Replace any worn or damaged components.
- **Wheel Cylinders:** Inspect wheel cylinders for leaks. Leaking wheel cylinders can contaminate brake shoes and reduce braking effectiveness.

If you notice any unusual noises, vibrations, or changes in braking performance, have your braking system inspected by a qualified technician immediately.

5. TROUBLESHOOTING COMMON ISSUES

This section addresses common issues that may arise with drum brake systems. Always consult a qualified technician for diagnosis and repair if you are unsure.

Symptom	Possible Cause	Action
Squealing or Grinding Noise	Worn brake shoes, contaminated shoes, worn drums, loose hardware.	Inspect brake shoes and drums. Replace worn components. Clean contaminated shoes or replace. Ensure all hardware is secure.
Reduced Braking Performance	Improper break-in, worn shoes, contaminated shoes, faulty wheel cylinder, improperly adjusted shoes.	Ensure proper break-in procedure was followed. Inspect shoes for wear or contamination. Check wheel cylinders for leaks. Verify shoe adjustment.
Brake Pedal Pulsation	Out-of-round brake drums.	Inspect brake drums for runout. Drums may need to be resurfaced or replaced.
Parking Brake Not Holding	Improperly adjusted parking brake cable, worn brake shoes, stretched cable.	Adjust parking brake cable. Inspect brake shoes for wear. Replace cable if stretched.

6. TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	Power Stop
Model	Autospecialty Brake Shoes
Item Model Number	B705
Manufacturer Part Number	B705
OEM Part Number	B705
Position	Rear
Exterior Material	Semi-metallic
Item Weight	7.94 pounds (approximately 3.6 kg)
Product Dimensions	13 x 10.2 x 5.5 inches (approximately 33 x 25.9 x 14 cm)
Special Features	100% asbestos-free, chamfers for noise-free braking, enhanced brake power, shorter break-in time, precision arc ground for proper fitment.

7. WARRANTY INFORMATION

Power Stop products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to the B705 Rear Autospecialty Brake Shoes, please refer to the official Power Stop website or contact their customer service department directly. Warranty coverage typically addresses manufacturing defects and material flaws under normal use and service.

It is important to retain your proof of purchase for any warranty claims.

8. CUSTOMER SUPPORT

If you have any questions regarding the installation, operation, maintenance, or troubleshooting of your Power Stop B705 Rear Autospecialty Brake Shoes, please contact Power Stop customer support.

For the most current contact information, please visit the official Power Stop website:

[Visit Power Stop Official Website](#)

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This manual is for informational purposes only. Always consult a qualified professional for vehicle maintenance and repairs.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question