

Westward 1EKA5

Westward 1EKA5 Brake Resetting Gauge Instruction Manual

Model: 1EKA5

1. INTRODUCTION

This instruction manual provides detailed guidance for the proper use and maintenance of your Westward 1EKA5 Brake Resetting Gauge. This tool is designed to accurately measure the inside diameter of a brake drum and then transfer that measurement to the brake shoes, allowing for precise adjustment before drum reinstallation. Proper adjustment is crucial for optimal braking performance and safety. Please read this manual thoroughly before operating the device.

2. PRODUCT OVERVIEW

The Westward 1EKA5 Brake Resetting Gauge is a specialized tool constructed from steel, designed for durability and precision. It features adjustable arms that allow it to measure brake drums ranging from 6 1/2 inches to 11 1/3 inches in diameter. The gauge facilitates the accurate setting of brake shoe diameter to match the drum, simplifying brake service procedures.



Figure 1: Westward 1EKA5 Brake Resetting Gauge. This image displays the gauge's overall structure, including its two main arms, the central sliding mechanism with a white plastic indicator on the left, and a brass-colored adjustment screw on the right.

3. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE), such as safety glasses, when working on vehicle braking systems.
- Ensure the vehicle is securely supported on jack stands before beginning any work.
- Brake dust may contain asbestos or other hazardous materials. Avoid inhaling dust; use an approved brake dust vacuum or wet method for cleaning.
- Handle brake components with care. Brake fluid is corrosive and can damage paint and skin.
- Refer to the vehicle manufacturer's service manual for specific brake system procedures and torque specifications.
- Keep the tool clean and free from grease or oil to ensure accurate measurements and safe handling.

4. SETUP

The Westward 1EKA5 Brake Resetting Gauge requires minimal setup.

1. Unpack the gauge from its packaging.
2. Inspect the tool for any signs of damage or manufacturing defects. Do not use if damaged.
3. Familiarize yourself with the adjustable arms and the central sliding mechanism. The gauge operates by expanding its arms to match a diameter.

5. OPERATING INSTRUCTIONS

The primary function of this gauge is to ensure that new or serviced brake shoes are adjusted to the correct diameter to fit snugly within the brake drum. This process involves two main steps: measuring the drum and then setting the shoes.

5.1. Measuring the Brake Drum Diameter

1. Remove the brake drum from the vehicle according to the manufacturer's service manual.
2. Clean the inside surface of the brake drum thoroughly to remove any dust or debris.
3. Position the Westward 1EKA5 Brake Resetting Gauge inside the brake drum.
4. Carefully expand the gauge's arms until they make firm contact with the inner walls of the brake drum at its widest point. Ensure the gauge is centered and perpendicular to the drum's axis for an accurate measurement.
5. Lock the gauge in this position. The gauge is designed to hold this measurement for transfer.
6. Remove the gauge from the brake drum.

5.2. Setting the Brake Shoe Diameter

1. With the brake shoes installed on the backing plate (but before the drum is reinstalled), position the Westward 1EKA5 Brake Resetting Gauge over the brake shoes.
2. Adjust the brake shoe adjuster mechanism until the brake shoes make light, even contact with the gauge's arms. The goal is to match the brake shoe diameter to the previously measured drum diameter.
3. Ensure that both shoes are adjusted evenly and that the gauge fits without excessive force or looseness.
4. Once the shoes are adjusted to the gauge's setting, the brake drum can be reinstalled. This pre-adjustment helps in easier drum installation and reduces the need for extensive post-installation adjustments.

Note: The gauge is designed to measure drums from 6 1/2 inches to 11 1/3 inches. Ensure your brake drums fall within this range for accurate use.

6. MAINTENANCE

- **Cleaning:** After each use, wipe the gauge clean with a dry cloth to remove any brake dust, grease, or debris. For stubborn grime, a mild solvent can be used, ensuring it does not damage the tool's finish.
- **Storage:** Store the gauge in a clean, dry place, away from direct sunlight and extreme temperatures. Keeping it in its original packaging or a protective case can prevent damage.
- **Inspection:** Periodically inspect the gauge for any signs of wear, bending, or damage to its arms or sliding mechanism. A damaged gauge may provide inaccurate measurements.

7. TROUBLESHOOTING

- **Inaccurate Measurements:**
 - Ensure the brake drum is clean and free of debris before measuring.
 - Verify the gauge is centered and perpendicular to the drum's axis during measurement.
 - Check for any physical damage or bending of the gauge's arms.
- **Difficulty Adjusting Brake Shoes:**
 - Confirm that the brake shoe adjuster mechanism is functioning correctly.
 - Ensure the gauge is securely locked at the drum measurement before attempting to set the shoes.

8. SPECIFICATIONS

Model Number	1EKA5
Brand	Westward
Measurement Range	6 1/2 to 11 1/3 inches
Material	Steel
Item Weight	15.2 ounces
Product Dimensions (L x W x H)	0.5 x 12.3 x 9.7 inches

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Westward 1EKA5 Brake Resetting Gauge, please refer to the documentation provided at the point of purchase or contact Westward customer service directly. Keep your purchase receipt as proof of purchase.