

Lee Precision 90811

Lee Auto-Drum Powder Measure Instruction Manual

Model: 90811 | Brand: Lee Precision

1. INTRODUCTION

The Lee Auto-Drum Powder Measure is designed for accurate and automatic powder dispensing in reloading applications. This case-actuated system ensures consistent charges for various cartridges. It includes two infinitely adjustable drums, one for handgun and one for rifle, capable of dispensing charges from 1 to 80 grains.

Key features include an exclusive elastomer wiper to prevent powder shearing, a machined body with labyrinth grooves for a leak-free fit, and a quick-change hopper with an on/off valve for convenient powder changes. The drum is actuated by a steel sector and pinion gear train, ensuring reliable operation.

2. SETUP INSTRUCTIONS

To set up your Lee Auto-Drum Powder Measure, follow these steps:

- Mounting:** Securely attach the Auto-Drum Powder Measure to your reloading press. It is designed to integrate seamlessly with Lee presses and can be adapted for others.
- Hopper Installation:** Place the quick-change hopper onto the top of the powder measure. Ensure the on/off valve is in the "off" position before adding powder.
- Drum Selection:** Select the appropriate drum (handgun or rifle) based on your reloading needs. The rifle drum includes a plug insert for use as an additional pistol drum.
- Powder Loading:** Fill the hopper with your desired smokeless powder. Once filled, turn the on/off valve to the "on" position to allow powder to flow into the drum.
- Initial Adjustment:** Begin with a low charge setting and gradually increase to your desired charge weight. It is recommended to use a reliable powder scale to verify dispensed charges.



Figure 2.1: The Lee Auto-Drum Powder Measure installed on a reloading press, demonstrating its typical setup.

3. OPERATING INSTRUCTIONS

The Lee Auto-Drum Powder Measure operates automatically as the press ram cycles. Follow these guidelines for proper operation:

- **Case Actuation:** The powder measure is case-actuated. As a case is raised into the measure, it triggers the drum to rotate, dispensing a precise powder charge.
- **Charge Adjustment:** To adjust the powder charge, rotate the adjustment screw on the drum. Clockwise rotation decreases the charge, and counter-clockwise rotation increases it. Always verify adjusted charges with a powder

scale.

- **Powder Compatibility:** The exclusive elastomer wiper is designed to work effectively with various powder types, including difficult-to-meter extruded powders, minimizing powder shearing.
- **Leak Prevention:** The machined body and precision-molded nylon drums are designed to provide a leak-free fit, even with fine powders.





Figure 3.1: A detailed view of the Lee Auto-Drum Powder Measure, showing the powder hopper and the main body.

4. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your Lee Auto-Drum Powder Measure:

- **Cleaning:** Periodically clean the powder measure to remove powder residue. Use a soft brush or cloth. Avoid using solvents that may damage plastic components.
- **Powder Change:** When changing powder types or storing the measure, use the quick-change hopper's on/off valve to stop powder flow. Remove the hopper and empty any remaining powder back into its container.
- **Inspection:** Regularly inspect the drums, elastomer wiper, and gear train for any signs of wear or damage.

5. TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Inconsistent Powder Charges	Improper adjustment, powder bridging, or residue buildup.	Verify adjustment with a scale. Ensure powder flows freely. Clean the measure thoroughly.
Powder Leaking	Very fine powders (e.g., W296/H110), or improper seating of components.	Ensure all components are properly assembled and tightened. While the design minimizes leaks, some very fine powders may still exhibit minor leakage.
Drum Not Actuating	Improper press setup or obstruction in the mechanism.	Check press linkage and ensure the case is fully actuating the measure. Inspect for any foreign objects.

6. SPECIFICATIONS

- **Model:** 90811
- **Brand:** Lee Precision
- **Material:** Steel, Nylon
- **Charge Range:** 1 to 80 grains (depending on drum)
- **Included Drums:** One handgun, one rifle (infinitely adjustable)

- **Hopper:** Quick-change with on/off valve
- **Actuation:** Case-actuated
- **Item Package Dimensions:** 8 x 6.8 x 3.6 inches
- **Package Weight:** 0.59 Kilograms
- **UPC:** 734307908119

7. WARRANTY INFORMATION

For specific warranty details regarding your Lee Auto-Drum Powder Measure, please refer to the official documentation provided with your product or visit the Lee Precision website. General warranty terms typically cover manufacturing defects under normal use.

8. CUSTOMER SUPPORT

If you require further assistance, have questions about operation, or need to report an issue, please contact Lee Precision customer support. Contact information can typically be found on the manufacturer's official website or within the product packaging.

Manufacturer: Lee Precision

For additional resources, you may also refer to the official user manual PDF [Lee Auto-Drum Powder Measure User Manual \(PDF\)](#)

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