

Lee Precision 91551

Lee Precision 223 Remington Pro 4000 Press Kit User Manual

Model: 91551

1. PRODUCT OVERVIEW

The Lee Precision 223 Remington Pro 4000 Press Kit is a progressive reloading press designed for efficient and precise ammunition production. This kit provides a comprehensive solution for reloading .223 Remington cartridges, offering features that simplify the reloading process for both new and experienced users.

Key features include:

- Easy operation with minimal adjustments required.
- Modular construction allowing customization of automation levels.
- Rapid cartridge changeover, including primer size.
- Breech Lock quick change feature in all four die positions.
- Exclusive auto case placer for consistent case feeding.
- Through-ram primer disposal with a built-in disposal tube.
- Ergonomic wood grip roller handle for comfortable operation.
- Includes a hex wrench for caliber changes and a built-in storage rack.



Figure 1: The Lee Precision 223 Remington Pro 4000 Press Kit, showing the main press body, powder measure, case feeder, and handle.

2. COMPONENTS AND WHAT'S INCLUDED

The Lee Precision 223 Remington Pro 4000 Press Kit typically includes the following components:

- Pro 4000 Progressive Press Base Unit
- Lee 3-Die Set for .223 Remington (Full Length Sizing Die, Rifle Charging Die, Bullet Seat and Crimp Die)
- Shell Plate for .223 Remington
- Universal Case Feeder

- Auto-Drum Powder Measure
- Safety Prime System (Large and Small Priming Arms)
- Four Colored Spline Drive Breech Lock Bushings
- Ergonomic Wood Grip Roller Handle
- Hex Wrench for Caliber Changes
- Built-in Storage Rack for Tools
- Primer Disposal Tube

3. SETUP INSTRUCTIONS

Proper setup is crucial for safe and efficient operation. Follow these steps carefully:

1. **Mounting the Press:** Securely mount the Pro 4000 press to a sturdy workbench using appropriate bolts and washers. Ensure the press is stable and does not wobble during operation.
2. **Installing Dies:**
 - Insert the provided Breech Lock bushings into the four die stations on the press.
 - Thread the .223 Remington dies (sizing, powder charging, seating, crimping) into the bushings. Refer to the specific die instructions for initial depth settings.
 - Adjust each die according to the manufacturer's recommendations for your specific cartridge components. Once set, the Breech Lock system allows for instant change without re-adjustment.
3. **Attaching the Auto-Drum Powder Measure:** Install the Auto-Drum Powder Measure onto the designated station. Ensure it is securely fastened and the powder hopper is correctly oriented.
4. **Setting up the Universal Case Feeder:** Assemble the Universal Case Feeder and attach it to the press. Ensure the case chute aligns correctly with the shell plate.
5. **Installing the Safety Prime System:** Attach the Safety Prime system, selecting either the large or small priming arm as appropriate for your primers. Ensure the primer tray is correctly seated.
6. **Handle Installation:** Attach the ergonomic wood grip roller handle to the press linkage.
7. **Primer Disposal:** Ensure the primer disposal tube is correctly routed to a suitable container for spent primers.

Important: Always refer to the detailed instructions provided with your Lee Precision dies and accessories for precise setup and adjustment procedures. Incorrect setup can lead to unsafe conditions or damaged components.

4. OPERATING INSTRUCTIONS

The Lee Precision Pro 4000 is designed for progressive reloading, performing multiple operations with each stroke of the handle. Always prioritize safety and follow established reloading practices.

4.1. Safety Precautions

- Wear appropriate safety glasses at all times.
- Work in a well-ventilated area.
- Keep primers and powder away from heat, sparks, and open flames.
- Never exceed recommended powder charges. Consult reliable reloading manuals.
- Keep children and unauthorized persons away from your reloading area.
- Inspect all components (cases, primers, powder, bullets) before use.

4.2. Reloading Process

Once the press is set up and dies are adjusted, the progressive reloading process typically involves the following stations:

1. **Station 1 (Sizing/Depriming):** Insert a spent case into the first station. As the ram moves up, the sizing die resizes the case and removes the spent primer.
2. **Station 2 (Priming/Powder Charging):** As the ram moves up, a new primer is seated into the case from Station 1. Simultaneously, the Auto-Drum Powder Measure dispenses a pre-set charge of powder into the case that has moved from Station 1 to Station 2.
3. **Station 3 (Bullet Seating):** Place a bullet on top of the charged case in Station 3. As the ram moves up, the bullet seating die presses the bullet into the case to the desired overall length.
4. **Station 4 (Crimping):** The final station applies a crimp to the case mouth, securing the bullet and ensuring proper feeding.

Continue cycling the press handle, ensuring a new case is fed into Station 1 with each cycle. Monitor all operations, especially powder charges and primer seating, to ensure consistency and safety.

5. MAINTENANCE

Regular maintenance will ensure the longevity and reliable performance of your Lee Precision Pro 4000 press.

- **Cleaning:** After each reloading session, wipe down the press and dies to remove powder residue, primer dust, and any lubricants. A soft cloth and a mild solvent (if necessary) can be used.
- **Lubrication:** Apply a light coat of machine oil to moving parts and pivot points as needed. Avoid over-lubrication, especially near powder and primer handling areas.
- **Die Inspection:** Periodically remove and inspect dies for wear, damage, or buildup. Clean them thoroughly.
- **Primer System:** Keep the primer seating area and disposal tube clear of debris.
- **Storage:** Store the press in a clean, dry environment to prevent rust and corrosion.

6. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Primers not seating correctly or dropping out.	Incorrect primer arm adjustment, dirty primer pocket, wrong primer size, or issue with Safety Prime system alignment.	Verify primer arm adjustment. Clean primer pockets. Ensure correct primer size (small rifle for .223). Check alignment of Safety Prime system components.
Inconsistent powder charges.	Powder measure not calibrated, powder bridging in hopper, static electricity, or inconsistent operation.	Recalibrate Auto-Drum Powder Measure. Tap hopper to settle powder. Use anti-static dryer sheets if static is an issue. Maintain consistent stroke speed.
Cases not feeding properly.	Case feeder misaligned, cases stuck, or wrong case size for feeder.	Check alignment of Universal Case Feeder. Clear any obstructions. Ensure you are using .223 Remington cases.

Problem	Possible Cause	Solution
Bent decapping pin.	Off-center case, crimped primer pocket, or excessive force.	Ensure cases are centered. If using military brass, swage or ream primer pockets before decapping. Reduce force if encountering resistance. Replace bent pin.

For further assistance, consult the Lee Precision website or contact their customer support.

7. SPECIFICATIONS

Feature	Detail
Brand Name	Lee Precision
Model Name	91551
Item Package Dimensions (L x W x H)	20 x 10 x 8 inches
Item Dimensions (L x W x H)	20.2 x 9.6 x 7 inches
Package Weight	6.23 Kilograms
Color	Black
Material	Polypropylene
Number of Items	1
Included Components	Lee Precision 223 Remington Pro 4000 Press Kit
Date First Available	April 19, 2020

8. WARRANTY AND SUPPORT

Specific warranty details for the Lee Precision 223 Remington Pro 4000 Press Kit are not provided in this manual. For comprehensive warranty information, product registration, and technical support, please refer to the official Lee Precision website or contact their customer service department directly. It is recommended to retain your purchase receipt for warranty claims.

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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

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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