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› LEE PRECISION Priming Tool Kit with Shell Holders (90215) Instruction Manual

Lee Precision 90215

LEE PRECISION Priming Tool Kit with Shell Holders (90215) - Instruction Manual

Model: 90215

1. INTRODUCTION

The LEE PRECISION Priming Tool Kit with Shell Holders (Model 90215) is designed to provide a convenient and efficient method for priming cartridge cases. This kit includes the Auto-Prime tool, small and large priming assemblies, a folding primer tray, and a selection of the most popular shell holders, all housed within a durable molded storage box. It is engineered for precision and ease of use, allowing reloaders to prime cases accurately and consistently.

2. SAFETY INFORMATION

Always prioritize safety when handling reloading equipment and components. Primers are explosive and must be handled with extreme care.

- **Eye and Ear Protection:** Always wear appropriate eye protection (safety glasses) and ear protection when operating the priming tool.
- **Read Instructions:** Fully read and understand all instructions before using the priming tool.
- **Primer Handling:** Handle primers carefully. Do not drop, jar, or expose them to excessive heat, friction, or static electricity. Keep primers in their original packaging until ready for use.
- **Ventilation:** Work in a well-ventilated area.
- **Keep Out of Reach:** Store primers and reloading equipment out of reach of children and unauthorized persons.
- **One Primer at a Time:** Only load one primer into the tool at a time for priming.
- **Cleanliness:** Keep the priming tool and work area clean and free of debris.



Image: The Lee Precision Auto-Prime tool in use, highlighting the importance of safety. Note the clear primer tray with safety warnings.

3. KIT COMPONENTS

The LEE PRECISION Priming Tool Kit (90215) includes the following items:

- **Auto-Prime Tool:** The main handheld priming device.
- **Small Priming Assembly:** For seating small rifle and pistol primers.
- **Large Priming Assembly:** For seating large rifle and pistol primers.
- **Folding Primer Tray:** Used to orient and feed primers into the tool.
- **Molded Storage Box:** A durable case designed to hold the tool and shell holders.
- **8 Popular Priming Tool Shell Holders:** Includes sizes 1, 2, 3, 4, 5, 11, 12, and 19, compatible with over 130 different cartridges. The case also has space for an additional 10 shell holders.



Image: Contents of the Lee Precision Priming Tool Kit, including the Auto-Prime tool, primer tray, and various shell holders within the storage box.

4. SETUP

Before beginning the priming process, ensure your workspace is clean and well-lit.

1. **Select Priming Assembly:** Determine whether you are using small or large primers. Select the corresponding priming assembly (small or large) and install it into the Auto-Prime tool. Ensure it is securely seated.
2. **Select Shell Holder:** Choose the correct shell holder for the cartridge case you intend to prime. Refer to the Lee Precision shell holder chart if unsure. Insert the shell holder into the designated slot on the Auto-Prime tool.
3. **Prepare Primer Tray:** Open the folding primer tray. Pour a small quantity of primers into the tray. Gently shake the tray to orient the primers anvil-side up.
4. **Load Primer Tray:** Slide the primer tray onto the Auto-Prime tool. Ensure it locks into place. The primer feed mechanism should align with the primer channel.

5. OPERATION

Follow these steps to prime a cartridge case using the Auto-Prime tool:

1. **Insert Case:** Place a clean, decapped cartridge case into the shell holder on the Auto-Prime tool. Ensure the case head is fully seated in the shell holder.
2. **Advance Primer:** Gently tilt the tool to allow a primer to slide from the tray into the primer feed channel. Ensure the primer is correctly oriented (anvil up).
3. **Seat Primer:** With a firm, steady motion, squeeze the handle of the Auto-Prime tool. This action will push the primer into the primer pocket of the cartridge case. Apply enough pressure to fully seat the primer, but avoid excessive force which can deform the primer or case. The primer should be seated slightly below the case head, flush or just below.

4. **Inspect Primer:** After seating, remove the case and visually inspect the primer. Verify it is seated straight, to the correct depth, and not crushed or deformed.
5. **Repeat:** Continue the process for additional cases. When the primer tray is low, add more primers and re-orient them.

Note: Consistent pressure is key to proper primer seating. Practice with a few cases to get a feel for the required force.

6. MAINTENANCE

Proper maintenance will ensure the longevity and reliable operation of your priming tool.

- **Cleaning:** Periodically clean the tool to remove primer residue, dust, and debris. Use a soft brush or cloth. Avoid using harsh solvents that could damage plastic components.
- **Lubrication:** The tool generally does not require lubrication. If any moving parts feel stiff, a very small amount of light machine oil can be applied, but ensure it does not come into contact with primers.
- **Storage:** Store the priming tool and all components in the provided molded storage box in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Inspection:** Before each use, inspect the priming assemblies and shell holders for any signs of wear or damage. Replace worn components as necessary.

7. TROUBLESHOOTING

If you encounter issues while using the priming tool, consider the following:

- **Primers Not Feeding:**
 - Ensure primers are correctly oriented (anvil up) in the tray.
 - Check for debris in the primer feed channel.
 - Verify the primer tray is securely attached and aligned.
- **Primers Flipping/Twisting:**
 - This can occur if the primer tray is not properly seated or if the tool is not held level during primer advancement.
 - Ensure the correct priming assembly (small/large) is installed for the primer size being used.
- **Primers Not Seating Correctly (Too shallow/deep, crooked):**
 - Ensure the correct shell holder is used for the cartridge case.
 - Apply consistent, firm pressure. Avoid jerky motions.
 - Check the primer pocket of the case for cleanliness and proper size. Swaged or reamed primer pockets may be necessary for military brass.
 - Verify the priming assembly is fully seated in the tool.
- **Tool Jams:**
 - Do not force the tool if it jams. Carefully inspect for misaligned primers or debris.
 - Remove the case and primer tray, then clear any obstructions.
- **Missing Shell Holders:**
 - If shell holders were missing upon receipt, contact the retailer or manufacturer immediately.

8. SPECIFICATIONS

Feature	Detail
Brand Name	Lee Precision
Model Name	Lee Precision 90215: Auto Prime Kit
Part Number	LEE90215
Item Package Dimensions (L x W x H)	5.8 x 4.8 x 1.5 inches
Package Weight	1.2 Pounds
Material	Other (Durable plastic and metal components)
Included Components	Auto-Prime Tool, Small and Large Priming Assemblies, Folding Primer Tray, Molded Storage Box, 8 Shell Holders (1, 2, 3, 4, 5, 11, 12, 19)
Sport Type	Hunting, Reloading
Date First Available	July 14, 2012

9. WARRANTY AND SUPPORT

Lee Precision products are known for their durability and reliability. For specific warranty information, product support, or to inquire about replacement parts, please refer to the official Lee Precision website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: A.C. Kerman - Outdoor (for Lee Precision)

For the most up-to-date contact information, please visit leeprecision.com.

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