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› Lee Precision Deluxe 4-Die Carbide Set Instruction Manual

Lee Precision 90964

Lee Precision Deluxe 4-Die Carbide Set Instruction Manual

Model: 90964 | Brand: Lee Precision

PRODUCT OVERVIEW

The Lee Precision Deluxe 4-Die Carbide Set is designed for reloading .38 Special and .357 Magnum ammunition. This comprehensive set provides all the necessary dies for accurate and reliable cartridge production. The carbide construction eliminates the need for case lubrication, simplifying the reloading process.

The set includes a carbide full-length sizing die with decapping unit, a powder-through expanding die (used for expanding and Belling the case mouth while charging the case with powder), a bullet seating die, and Lee's exclusive carbide factory crimp die to ensure consistent chambering.



Image: The Lee Precision Deluxe 4-Die Carbide Set, featuring four silver-colored dies, a yellow powder dipper, and a shell holder, all neatly organized within a red plastic storage case.

INCLUDED COMPONENTS

- Carbide Full Length Sizing Die with Decapping Unit
- Powder Through Expanding Die
- Bullet Seating Die
- Carbide Factory Crimp Die
- Universal Shell Holder
- Powder Dipper
- Load Data Sheet
- Flat 4-Die Plastic Container (Storage Box)

SETUP INSTRUCTIONS

Before beginning the reloading process, ensure your reloading press is securely mounted and clean. Each die in this set is precisely machined and labeled for its specific function. Refer to the included load data sheet for appropriate powder charges and bullet types for .38 Special and .357 Magnum cartridges.

1. **Prepare Your Cases:** Inspect all cases for defects such as split necks or other damage. Ensure cases are clean and free of debris.
2. **Install the Carbide Full Length Sizing Die:** Screw the sizing die into your press until it touches the shell holder. Tighten the lock ring finger-tight. The decapper is retained by a collet and should be adjusted to properly deprime spent primers.
3. **Install the Powder Through Expanding Die:** This die expands the case mouth and allows for powder charging. Adjust it to achieve the correct case mouth flare for bullet seating without over-belling.
4. **Install the Bullet Seating Die:** This die seats the bullet to the desired overall length. Adjust the die to ensure proper bullet seating depth and crimp (if combined with seating).
5. **Install the Carbide Factory Crimp Die:** This is the final die in the sequence. It applies a factory-like crimp to secure the bullet and ensure reliable feeding and chambering. Adjust for a firm crimp without over-crimping.

For detailed visual guidance on die installation and adjustment, consult the comprehensive instruction manual provided with your set.

OPERATING INSTRUCTIONS

The Lee Precision Deluxe 4-Die Carbide Set streamlines the reloading process. Follow these general steps for efficient operation:

1. **Sizing and Decapping:** Place a case into the shell holder. Operate the press handle to push the case into the Carbide Full Length Sizing Die. This resizes the case and removes the spent primer.
2. **Priming:** Prime the case using your preferred priming tool.
3. **Expanding and Powder Charging:** Place the primed case into the shell holder. Operate the press handle to push the case into the Powder Through Expanding Die. This will expand the case mouth and allow powder to be dispensed into the case. Use the included powder dipper or a precise powder measure according to your load data.
4. **Bullet Seating:** Place a bullet on the expanded and charged case. Operate the press handle to push the case and bullet into the Bullet Seating Die, seating the bullet to the correct overall length.
5. **Factory Crimping:** Place the loaded cartridge into the shell holder. Operate the press handle to push the cartridge into the Carbide Factory Crimp Die. This die applies a consistent crimp, ensuring the bullet is securely held and the cartridge will chamber reliably.

Always double-check your loaded ammunition against published load data for safety and performance. Consistency in each step is key to producing high-quality ammunition.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your Lee Precision dies. Carbide dies generally do not require lubrication of the cases, but regular cleaning is recommended.

- **Cleaning:** Periodically clean your dies to remove powder residue, carbon, and other debris. Use a soft cloth and a suitable cleaning solvent. Ensure all components are dry before reassembly.
- **Storage:** Store dies in their original plastic case in a dry environment to prevent rust or corrosion.
- **Inspection:** Regularly inspect dies for any signs of wear, damage, or misalignment. Ensure all threads are clean and move smoothly.

TROUBLESHOOTING

If you encounter issues during reloading, consider the following common troubleshooting tips:

- **Case Not Sizing Properly:** Ensure the sizing die is screwed down far enough to contact the shell holder at the top of the press stroke. Check for excessive case length.
- **Bullet Seating Issues (Too Deep/Shallow, Tilted):** Verify the bullet seating die is correctly adjusted. Ensure the case mouth is adequately flared by the expanding die.
- **Inconsistent Crimp:** Adjust the Carbide Factory Crimp Die incrementally. Ensure the case length is consistent.
- **Stuck Case:** If a case becomes stuck in a die, do not force it. Refer to the Lee instruction manual for safe removal procedures.
- **Primer Issues (Crushed, Not Seating):** Check the primer pocket for cleanliness and proper size. Ensure the priming tool is correctly adjusted.

For more detailed troubleshooting, refer to the comprehensive instruction manual provided with your Lee Precision reloading equipment.

SPECIFICATIONS

Feature	Detail
Cartridge Compatibility	.38 Special, .357 Magnum
Number of Dies	4
Die Types Included	Sizer, Mouth Expander, Seater, Crimp
Material	Carbide (dies), Other (components)
Item Weight	0.5 Kilograms
Item Dimensions (LxWxH)	5 x 5 x 2 inches
Model Number	90964
UPC	734307909642

WARRANTY AND SUPPORT

Lee Reloading Products are backed by a strong commitment to quality. Lee guarantees their reloading products against breakage from normal use for two full years. If a product breaks under normal use within this period, it will be replaced free of charge upon return to the factory.

For support, inquiries, or to initiate a warranty claim, please contact Lee Precision directly through their official website or customer service channels. Always refer to the specific warranty terms and conditions provided with your product.

IMPORTANT SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Always follow all safety precautions when handling reloading components and operating reloading equipment. Wear appropriate personal protective equipment, such as safety glasses. Ensure proper ventilation in your workspace. Keep all reloading components and equipment out of reach of children and unauthorized individuals.

ADDITIONAL RESOURCES

For further information, detailed load data, and advanced reloading techniques, please refer to the official Lee Precision website or consult reputable reloading manuals.

Note: No official product videos from the seller were available for embedding.

