

COMPLETE INSTRUCTIONS FOR 3-DIE SETS

LEE BREECH LOCK CARBIDE DIES

CAUTION

Ammunition reloading can be dangerous if done improperly and should not be attempted by persons not willing and able to read and follow instructions exactly. Children should not be permitted to reload ammunition without strict parental supervision. Always wear safety glasses when reloading and shooting. Ammunition loaded with these tools and data should only be used in modern guns in good condition. We do not accept responsibility for ammunition loaded with these tools or data as we have no control over the manufacture and storage of components or the loading procedure and techniques. Primers and gun powders, like gasoline and matches, can be dangerous if improperly handled or misused.

1 PREPARE YOUR CASES

Discard cases with defects such as split necks, indications of head separation or anything that would make them unsuitable for reloading.

2 CARBIDE FULL LENGTH SIZING DIE



This die will come with a **RED BREECH LOCK BUSHING** installed. Install die and bushing into press. Raise the ram to the top of the stroke (Handle all the way down); then screw in sizing die to contact the shell holder/shell plate.

NOTE ▶ If turning the die by hand is a challenge, you may use a 1/2" wrench on the decapper clamp. The decapper is retained by a collet. Should it be overstressed by an obstruction; it simply slides up without damage. To reset, loosen the decapper clamp and position the decapper flush with clamp end and retighten. **CONSIDERABLE TORQUE MAY BE NECESSARY.** A 1/2" and 3/4" wrench are necessary.

3 PRIME

If your press isn't equipped with automatic priming, the easiest, most convenient way to prime is with **LEE PRIMING TOOLS**. Never touch primers from box to shell. Uses inexpensive priming tool shell holders — no need to endlessly swap between your press shell holder and your priming tool. Includes priming assemblies for large and small primers. Change primer size in seconds.



Lee Auto Bench Prime 90700

4 EXPANDER DIE

IMPORTANT! remove any residual oil in the through hole of the expanding plug with a tissue.



Die comes with a **WHITE BREECH LOCK BUSHING** installed. Install die and bushing into the press. Place a US nickel coin or equivalent, approx. 2mm thick, on the shell holder/shell plate. Thread die in until it touches the nickel, then remove nickel. Insert a case into shell holder/shell plate and raise the case into the **POWDER THROUGH EXPANDING DIE** to flare case mouth. Lower ram enough so you can check the amount of flare. Use your bullet as a gauge. Flare enough so the bullet easily starts into the case. Flare is increased by turning die clockwise (closer to the shell plate). Continue short cycling the press lever until you've achieved the desired flare. In use, the expander plug travels approx. 3/8" within the die and comes to abrupt stop at extraction. This helps shake the powder through. However, we recommend you check to be sure all the powder has cleared the funnel and expander plug.

NOTE ▶ While using the Auto Drum, the case actuates the powder drop. You may need to flare more than minimum to achieve a successful powder drop. Case will bottom on shoulder of Powder Through Plug and will not over flare case. If die is turned in too far, you will crush case mouth.

5 CHARGE THE CASE

Select a load from the chart on reverse side. This is the most critical decision you must make. An overcharge can blow up the gun and injure the shooter or persons nearby. It is dangerous to use a bullet of a greater weight with a charge for a lighter bullet. **Never select a load intended for a bullet lighter** than you are using. Loads for a slightly heavier bullet are safe. Always start with the **STARTING LOADS**. You may work up to the **NEVER EXCEED LOADS** gradually, provided you know how to watch for pressure signs. The Lee Dipper is the safest and easiest powder measure to use. For the ultimate in speed, convenience and versatility, consider the **LEE AUTO-DRUM POWDER MEASURE**.



CAUTION After charging the case, the only operation that should be done is to seat the bullet. Never try to seat a primer after powder has been added.

6 BULLET SEATING DIE

Die comes with **BLUE BREECH LOCK BUSHING** installed. Unscrew adjusting screw (silver knurled knob on top of die) until you see the start of the threads. Install die and bushing into the press.

LOADED ROUND AVAILABLE

Place a loaded round that you wish to duplicate in the shell holder/shell plate. Raise ram to the top of its stroke and hold handle down. Screw bullet seating die in until it stops turning. Turn adjusting screw in until you feel it touch the tip of the bullet. If crimp is desired; lower ram, thread die in an additional 1/8 turn.

LOADED ROUND NOT AVAILABLE

Insert case into shell holder/shell plate. Raise ram to the top of its stroke; hold handle down. Screw bullet seating die in until it stops turning. Place a bullet on top of case; raise ram to top of its stroke; screw adjusting screw in until you feel it touch the tip of bullet. Turn adjusting screw in two turns. Lower ram; check progress; continue to turn adjusting screw in 1/4 turn until you reach desired case overall length. If crimp is desired; lower ram, thread die in an additional 1/8 turn.

Bullets should be seated deep enough to work through the gun's action. See **MAXIMUM OVERALL LENGTH** on charge table. Cases must be trimmed to the same length to provide a uniform crimp. Excessive crimp causes the bullet seater to deform soft nose bullets.

CAUTION Seating bullets excessively deep will reduce case capacity and increase the pressure. It is extremely important that full wadcutter bullets be used with light loads only. You can select these by their reduced velocity.



The Bullet Seating die is equipped with a floating bullet seating punch for maximum accuracy. It is designed to seat all shapes of bullets with minimum deformation. If you attempt to compress the charge, it may deform the bullet an objectionable amount. It will be necessary to modify the bullet seating punch to fit the bullet. If unable to do it yourself or have it done locally, we can do it for you. **ORDER** leeprecision.com/custom-bullet-seating-plug.html

THE LEE APP
AUTOMATIC PROCESSING PRESS



DEPRIME
BULGE BUST
SIZE CAST BULLETS
PRIMER POCKET
SWAGE
SIZE CASES

DELUXE APP

PRODUCT # 90933
COMPLETE WITH ALL OF THE FEED TUBES, TUBE SUPPORTS, RISERS AND CASE SLIDERS. INCLUDES BOTTLE ADAPTER TO COLLECT SPENT PRIMERS OR SIZED BULLETS.

Fastest way to size cast bullets & more!



Size cast bullets as fast as you can pull the lever with the **BREECH LOCK BULLET SIZING KIT # 91532** and diameter specific bullet sizer and punch.

LEE AUTO-DRUM
POWDER MEASURE
90811

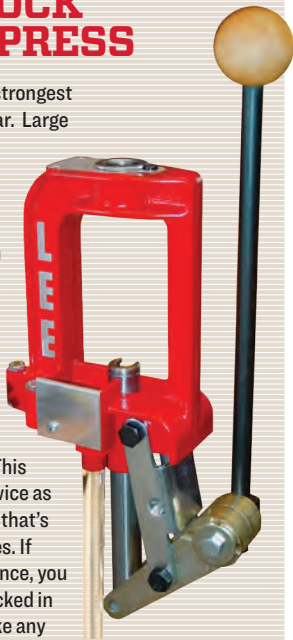
Automated case actuated drum powder measure. Accurately and automatically dispenses powder in your favorite cartridge. Two infinitely adjustable drums included. These Quick Change Drums accurately and reliably drop charges from 1 to 80 grains of powder.



LEE BREECH LOCK CHALLENGER PRESS

The "O" frame press by design is the strongest and the most popular style press by far. Large opening and long stroke handles the largest belted magnums with ease. The primer catcher is positive and routes the spent primers directly to the trash can. Priming is a dream with the Lee Lever Prime System. Best of all, it includes the Breech Lock Quick Change Die System. Change dies instantly with a twist of the wrist; you'll never have to re-adjust your die.

Other features include all steel linkage with adjustable length lever. This same press will cost you more than twice as much from other manufacturers, and that's without all of the Challenger's features. If cost is more important than convenience, you can leave the Breech Lock bushing locked in the press and screw dies in and out like any conventional press. 90588



YOU CAN CHANGE DIES INSTANTLY with a twist of the wrist; you'll never have to re-adjust your die.

LEE SIX PACK PRO KIT PRO 4000 KIT

TAKE FULL ADVANTAGE OF THE
LEE BREECH LOCK DIE SYSTEM

Our progressive presses are designed with the perfect balance of speed and simplicity. Add a bullet and pull the lever; other operations are automatic.

PRO 4000 KIT

SIX PACK PRO KIT



7 CARBIDE FACTORY CRIMP DIE
OPTIONAL ACCESSORY
FOR CRIMP AND POST SIZE CASES

A carbide sizer sizes the cartridge while it is being crimped so every round will positively chamber freely with factory-like dependability. The adjusting screw quickly and easily sets the desired amount of crimp. It is impossible to buckle the case as with a conventional bullet seating die. Trim length is not critical so this extra operation takes less time than it would if cases were trimmed and chamfered. Revolver dies roll crimp with no limit as to the amount. A perfect taper crimp is applied to auto-loader rounds. The crimper cannot be misadjusted to make a case mouth too small to properly head-space. A firm crimp is essential for dependable and accurate ammunition. It will eliminate the problems of poor ignition of slow burning magnum powders.

FACTORY CRIMP IS A TRADEMARK OF LEE PRECISION, INC.

FOR A COMPLETE CATALOG

ORDER leeprecision.com/product-catalog.html

LEE

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