BEFORE YOU START RELOADING
SETTING UP YOUR LEE BREECH LOCK CHALLENGER PRESS

Attach the Primer Change to a sturdy bench using ¼ or ⅛ bolts.

Install the lever clamp so that the cross-bar registers with the grooves on the face of the toggle. Pass the lever through the lever clamp to the desired length. The end of the lever should be flush with the edge of the toggle at minimum. You may slide it further through when loading easy to size cases like most handgun cases.

The toggle linkage operates on special aircraft type ball bushings and is retained with a crown lock nut. You can adjust the lock nut to eliminate any side play in the linkage.

Install spent primer tube. Leave the cap on the tube if you are not routing to a trashcan.

Your press features the Lee Breech Lock Quick-Change Die Holders

Once your dies are set you can instantly remove them and replace them to the exact same position. The Breech Lock includes a lock pin for initial die set up. If cost is more important than convenience, you can leave the quick-lock bushing permanently installed and screw your dies in and out as in any conventional press.

Thread your die into a quick-change holder and lightly snug the lock ring.

After your dies are set, they can be installed so that the lock groove does not line up with the lock button. This allows you to install and remove the die without depressing the lock button.

Remove the die by depressing the lock button and rotating the die ½ of a turn lift out and change to your next die.

Notice how the lock pin is automatically depressed allowing instant one-handed removal.

You can now begin reloading

INSTALL SHELLHOLDER

INSTALL SIZING DIE

While holding the handle against the stop, screw the die in until it touches the shell holder, then release pressure from the handle and screw the die in an additional ¼ to ½ of a turn maximum. Now while holding the die, tighten the lock ring. NOTE: Carbide dies should not be screwed in the additional ¼ to ½ turn.

PREPARE YOUR CASES

Inspect your cases while lubricating them. Discard all cases with split necks, indications of head separation or other defects. Wipe on a thin film of Lee Case Lubricant with your fingers. Fingers are the best way of lubing a case as any grit that could damage the die is wiped away. The case may be immediately sized or you can let the lube dry.

If for any reason you do not use Lee Resizing Lubricant, be very careful not to contaminate the powder or primers. All other brands are oil based and have serious, detrimental effects on powder and primers. Because of the stickiness, they also attract grit that can damage the die. Lee Resizing Lubricant costs less and is so superior that it is worth the effort to insist upon it or order direct from the factory.

If loading maximum loads, it is a good practice to remove all traces of case lubricant with detergent and water. This will reduce pressure against the bolt.

PREMIE YOUR CASE using the LEVER PRIME SYSTEM or off the press using the Lee Auto Prime.

Install the correct primer arm (large or small) by simply hooking the primer arm over the cross pin in the ram. Place the proper type of primer in the primer guide. Using the Safety Prime greatly speeds this operation. See panel on reverse for details on the Safety Prime System.

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FINISH CASE MOUTH for ease of bullet installation. Raise the ram to expand the case neck. To increase the flare, screw the die in deeper. Always adjust to provide the minimum flare needed to start the bullet. After proper adjustment, tighten the lock ring. Powder may be added through Lee Expanding Dies.

CHARGE THE CASE

Regardless of how you charge the case, be absolutely certain you have the correct amount and type of powder for the bullet you have selected.

NEVER try to seat the primer deeper after the powder has been added.

SEAT THE BULLET

Place a bullet on the case mouth and guide it into the die. Raise the ram to the top and withdraw. The knurled adjusting screw controls the bullet seating depth. Adjust to suit. Usually, seating to the same depth as a factory round works fine. If you desire to crimp, be sure the bullet crimp groove is almost completely inside the case. Then screw the die in just enough to apply a good crimp. Attempts to apply excessive crimp will crush the case. For proper crimp, all cases must be trimmed to the same length.

For best utility and accuracy, consider the Lee Factory Crimp Die. You will never crush a case; no crimp groove is required and trim length is not critical.