SETTING UP YOUR LEE BREECH LOCK CHALLENGER PRESS



MOUNT YOUR PRESS. The most convenient way to mount your press is with our Lee Bench Plate System # 90251. This system includes all of the mounting hardware and allows for quick press removal without

unbolting from bench.

LEE BENCH PLATE #90251

OR — purchase [qty. 3] $\frac{1}{4}$ " or $\frac{5}{16}$ " bolts and nuts and prepare your workbench for use with this press using drill template available: leeprecision.com/files/instruct/TMPBLC.pdf





Slide the

roller handle









Snug bolt with a 1/2" socket or wrench; tighten securely to 25 ft/lbs. minimum



FOR THOSE WITHOUT A BENCH.

LEE RELOADING STAND

#90688

Both the

#90688

#90251 Bench Plate

Reloading Stand

include a steel

mounting plate.



Attach primer deflector with the #8 Install spent primer tube. self-tapping screw provided.



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



The toggle linkage operates on special aircraft type full body bolts and is retained with a crown lock nut. You can adjust the lock nut to eliminate any

side play in the linkage.

YOUR PRESS FEATURES THE LEE BREECH LOCK QUICK-CHANGE DIEHOLDERS



Once 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.



Insert the holder into the press so that the lock groove will line up when secured. Adjust your die in or out for proper operation.



Remove the die by depressing the lock button and rotate the die 1/6 of a turn lift out and change to your next die



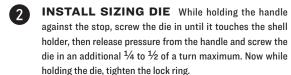
Notice how the lock pin is automatically depressed allowing instant one-handed removal.

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

YOU CAN NOW BEGIN RELOADING







NOTE: Carbide dies should not be screwed in the additional $\frac{1}{4}$ to $\frac{1}{2}$ turn.







Be sure to lube the inside of the case neck with a cotton swab.

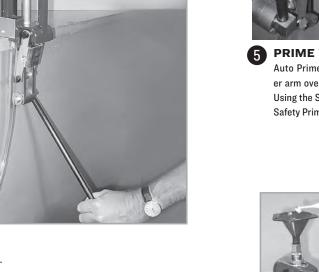
PLACE the lubricated case in the shell holder and raise the ram until the handle comes to a stop. Proceed to the priming operation. Carbide dies need no lubrication

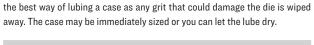
> Primer arm must be in place to direct spent primers.











CAUTION

PREPARE YOUR CASES Inspect your cases while lubricating them.

Discard all cases with split necks, indications of head separation or other de-

fects. Wipe on a thin film of Lee Case Lubricant with your fingers. Fingers are

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.









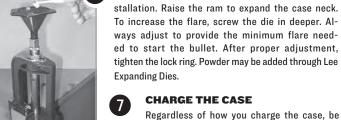


New Auto Prime Hand held requiring special, but inexpensive shell holders.

PRIME 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.

> Lower the ram to install the primer lift hard enough to seat the primer flush with the end of the case. Primers can be seated slightly below flush but never protruding.





THIS STEP IS OMITTED WITH

CHARGE THE CASE

Regardless of how you charge the case, be

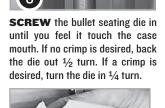
FLARE CASE MOUTH for ease of bullet in-

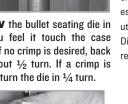
absolutely certain you have the correct amount and type of powder for the bullet you have selected.



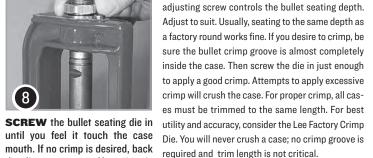
NEVER try to seat the primer deeper after the powder has been added.

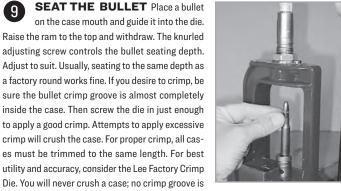






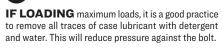






Lee Factory Crimp Die

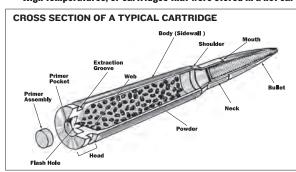




IT IS YOUR RESPONSIBILITY TO ENSURE THE SAFETY OF YOUR LOADS

THE FOLLOWING ARE FACTORS THAT WILL INCREASE PRESSURES. SOME WILL BE DANGEROUS.

- DO NOT USE more powder than recommended
- DO NOT USE a heavier bullet than recommended
- DO NOT SEAT the bullet deeper than normal
- DO NOT USE magnum primers unless using a slow burning ball powder
- Greatly oversize bullets, excessively hard bullets or cases that are too long will cause higher pressures
- · High temperatures, or cartridges that were stored in a hot car or car trunk will produce higher pressures



RELOADING IS QUITE A SIMPLE PROCESS

- 1 Case is sized to original dimensions and the spent primer is removed
- Install a new primer
- Add a charge of powder
- Seat a new bullet and crimp if desired









Store powder and primers in their original containers in a cool, dry place Read and follow instructions exactly

Be sure you have the correct powder, measure and bullet of the correct weight. Any mixup can be dangerous

Keep powder away from heat and open flames — Don't smoke

Exercise care and common sense at all times

WEAR SAFETY GLASSES & HEARING PROTECTION WHEN RELOADING OR SHOOTING

RELOADING SAFETY

CASES

The easiest and best way of getting cases is to simply save those from your factory loaded rounds. New and used cases can also be purchased. Cases must be clean and safe. Do no use cases that have cracks or splits. If they have been used more than twice, they should be checked to see that none of them have become too long for safe use. The easiest way is to trim them with a Lee Case Trimmer. This automatically cuts them to the correct length and no gauging or measuring is needed. After trimming, be sure to chamfer both the inside and outside of the case. A Lee Chamfer Tool works best, but it can be done with a pocket knife.

Straight sided cases, such as those used by most handguns, are loaded with a 3-die set.

MILITARY CASES

Used military cases are readily available at low cost. Usually, these have primers that are crimped in place. This is to prevent the primer from coming loose in automatic weapons and jamming the action at an inopportune time. The crimp must be removed before repriming. This can be done with a primer pocket reamer or swaging tool. Even a Lee Chamfer Tool can be used to ream the crimp.

POWDER

Powder is usually classified as smokeless and black powder. There is also Pyrodex, which is a substitue for black powder. We will be using only smokeless powder for reloading.

Each set of Lee Dies is supplied with powder measure and charge table with a generous selection of loads. Additional load data is available from all the powder manufacturers and bullet makers. This is excellent information and should be followed

Different powders are available to do different jobs. Bullets having a high sectional density (long length in relation to their diameter) require a slow burning powder. This permits sustained peak pressure to gain maximum acceleration within working pressure limits. Short, light bullets use quicker burning powder for complete combustion within the barrel. A wide selection of powder is readily available. Powders should always be stored in their original containers. While smokeless powder is not an explosive and not as dangerous to handle as

gasoline, it would be foolish to handle it carelessly and store excessive amounts. Follow the powder manufacturers' recommendations for storage and use.

Add powde

PRIMERS

Rifle and pistol cartridges require different primers. Rifle primers have a thick and stronger cup to withstand the higher pressure. Pistol primers have a thinner cup for easy detonation with a lighter hammer blow. Both rifle and pistol primers are available in regular and magnum. Use regular for all loads except if the load data specifies magnum primers.

Primers must always be stored in their original containers. It is always a wise idea to wear safety or shooting glasses when shooting or reloading.

Commercial rifle bullets usually have a soft lead core with a copper jacket. Point shapes come in a variety of styles, but usually have some soft lead exposed to properly mushroom on

The jackets serve a dual purpose: to control the bullet expansion and act as a bearing surface for its high speed travel down the bore. Some bullets have a crimping groove called a cannelure. This groove must be seated almost entirely in the case when crimping the case. The very end of the case mouth is turned into this groove by the bullet seating die used in a tubular magazine gun and most revolver ammunition

Cast bullets are very popular with the handloader. They are very economical to use and can be as accurate as jacketed bullets. They do not normally expand as well as soft lead jacketed bullets on game. Therefore, it is poor economy to use them

CRIMPING

Ammunition loaded for hunting should always have the bullets crimped in place, as should ammunition used in tubular magazine and auto-loading rifles. It could ruin your hunt if a bullet wedged in the chamber or pushed back into the case. Best accuracy is usually obtained with crimped ammo as the crimp has an effect on ignition, velocity, pressure and ballistic consistency. No die does a better job crimping than the patented Lee Factory Crimp Die.



WARNING Handling live primers and spent primers may expose you to lead or other chemicals, which are known to the State of California to cause reproductive harm and cancer. For more information, go to www.P65Warnings.ca.gov.



WARNING Steel parts in this product may be alloyed with trace amounts of lead and other elements which are known to the State of California to cause reproductive harm and cancer. For more information, go to www.P65Warnings.ca.gov. To prevent exposure, do not alter the product by welding, grinding, etc.

SAFETY PRIMER FEED INSTRUCTIONS

ALL BRANDS OF PRIMERS ACCEPTED Patent # 7,694,618. Expires October 30, 2027

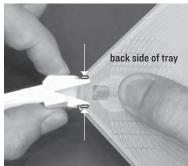
PRIMERS WILL EXPLODE IF SHOCKED OR CRUSHED WEAR EYE & EAR PROTECTION AT ALL TIMES WHEN HANDLING PRIMERS WARNING

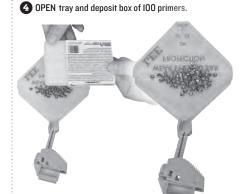
Primer dust accumulation can detonate. Regularly clean tray and tool to prevent accumulation. The dust contains lead; a substance known to cause birth defects, reproduction harn and other serious physical injury. Wash hands after exposure.





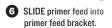
3 MAKE sure trough fingers are between and completely engaged with tray latch lugs (highlighted)





5 SHAKE tray side to side to upright all the primers. Fold and close cover and slide to ON position. Shake assembly to fill the trough.







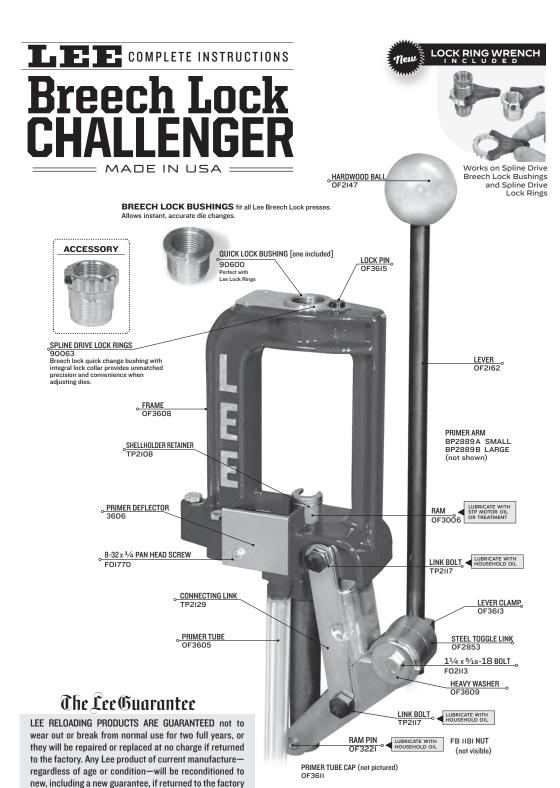
8 LOWER ram to seat primer. The primer should be

Firmly push trigger on the primer feed





HARTFORD, WISCONSIN 53027 www.leeprecision.com





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.

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with payment equal to half the current retail price.



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Lee Precision, Inc. **OF1219 BREECH LOCK CHALLENGER** mjh