

BEFORE YOU START RELOADING

LEE BREECH LOCK HAND PRESS

is ideally suited for use while seated. A right handed person should hold the tool in his left hand and let the lever rest against the left leg. By pushing the tool against your leg, you can move the lever and raise the ram, freeing your right hand to insert the case, primers or bullets.

You will shortly find that you can quite comfortably sit in your favorite chair with your left elbow resting on the arm for lengthy loading without tiring.



Insert bushing into the press, turn clockwise 1/6 turn to secure. Adjust die in or out for proper operation.



Lee Smart Lock Bushings

Insert Smart Lock bushing into press frame; rotate 1/6 turn to secure. Adjust for proper depth when removing die— grasp the bushing and rotate 1/6 turn counterclockwise. Using the die wrench works well. **Thread your die into bushing.** If cost is more important than convenience, you can leave Smart Lock bushing permanently installed. Remove O-ring and dies will freely thread in and out as in any conventional press. Be sure to use a lock ring on die to maintain setting.



Remove by rotating the die 1/6 of a turn counterclockwise. Lift out and change to your next die.



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

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.

CAUTION
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.

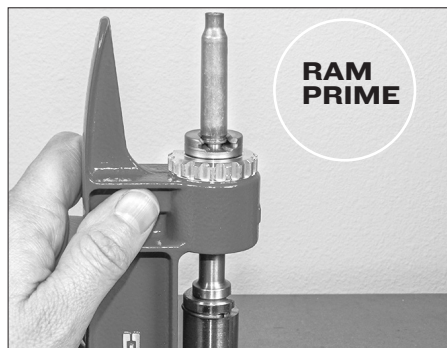
YOU CAN NOW BEGIN RELOADING



1 INSTALL UNIVERSAL SHELLHOLDER

NOTE

Using a 1/2" (13mm) wrench on the decapper clamp makes adjustment easy.



4 PRIME your case with one of the optional priming tools.



2 Pistol/carbide dies

Screw sizing die in until it touches the shell holder. **Rifle** Screw sizing die in until it pushes lever off the stop 1/4".



3 PLACE THE LUBRICATED CASE

in the shell holder and squeeze the levers together. Open the levers and remove the case. Do this with all of the cases before proceeding to the next step.
CAUTION After every box of 20 rounds, remove the shell holder and dump out spent primers.

LEAD WARNING

Primers contain lead: a substance known to cause birth defects, reproductive harm, and other serious physical injury. Wash hands after exposure.

Breech Lock Ram Prime

Safe with all brands of primers.



NEW AUTO PRIME Hand held, with folding tray—built-in primer flipping feature allows direct filling from large primer boxes. Requires special, but inexpensive shell holders.

FOLLOW INSTRUCTIONS INCLUDED WITH THE TOOL



THIS STEP IS OMITTED WITH MOST RIFLE 2-DIE SETS

5 Screw the Expanding Die

one turn short of touching the shell holder. This die flares the case mouth for easy bullet insertion. Turn deeper to increase flare. Adjust to minimum flare needed to start the bullet. Powder may be added through Lee Expanding Die.



6 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.**



7 Screw bullet seating die

in until it touches the shell holder — then back out three full turns.



SEAT THE BULLET Place a bullet on the case mouth and guide into the die. Raise ram to the top and withdraw. The 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 in the case. Then screw 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.



Pistol Rifle Lee Factory Crimp Die

8 FACTORY CRIMP



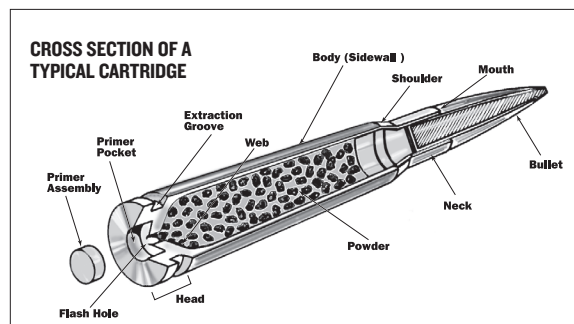
PRE-ADJUST AND COLOR CODE YOUR DIES WITH SMART LOCK BUSHINGS

9 IF LOADING maximum loads, it is a good practice to remove all traces of case lubricant with detergent and water. This reduces pressure against the bolt.

IT IS YOUR RESPONSIBILITY TO ENSURE THE SAFETY OF YOUR LOADS

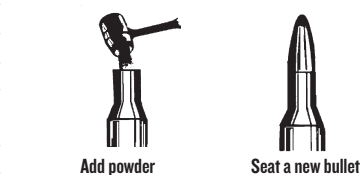
THE FOLLOWING ARE FACTORS THAT WILL INCREASE PRESSURES. SOME WILL BE DANGEROUS.

- **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 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
- 2 Install a new primer
- 3 Add a charge of powder
- 4 Seat a new bullet and crimp if desired



RELOADING SAFETY

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

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

Exercise care and common sense at all times

WEAR SAFETY GLASSES WHEN RELOADING OR SHOOTING

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 not 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 substitute 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 exactly.

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.

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.

BULLETS

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 impact.

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 for hunting.

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**.



ACCESSORIES

Smart Lock Bushings

91933 4-Pack



Pre-adjust and color code your dies with smart lock bushings

Lee Case Trimmer

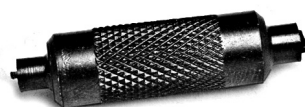
Simplest and safest way to check the case and trim to the correct length.

After a few loadings, cases tend to get longer. This could be dangerous if the case were so long that it would pinch the bullet in the end of the chamber. Pressure high enough to damage the gun could result. Notice how the case length gauge passes through the case and stops against the lock stud and trims every case to the correct length.



Primer Pocket Cleaner 90101

Enhances accuracy and assures full depth primer seating.



Lee Safety Powder Scale 90681



It is the easiest to use, most accurate and sensitive powder scale made exclusively to weigh gun powder. The Lee Safety Scale has magnetic dampening and an approach to weight lifter enclosed within its heavy metal base. The exclusive safety beam has a stainless steel razor edge for maximum sensitivity. You can be sure that the Lee Safety Scale will retain its original factory accuracy for as long as it is not physically broken.



Lee Value Turret Press 90932

Proven design with compound leverage. No spring in this turret design. The turret is locked into a solid steel ring with big rifle bolt type lugs. Exclusive design puts the lugs on the circumference so there can be no tipping. The linkage is so powerful that the largest magnum cases are sized with ease. Effort required is so small that the usual heavy bench is not essential. The Lee Turret Press has built-in primer catcher and a comfortable roller handle. Even if you do not need all of these features, why pay more for anything less?

New

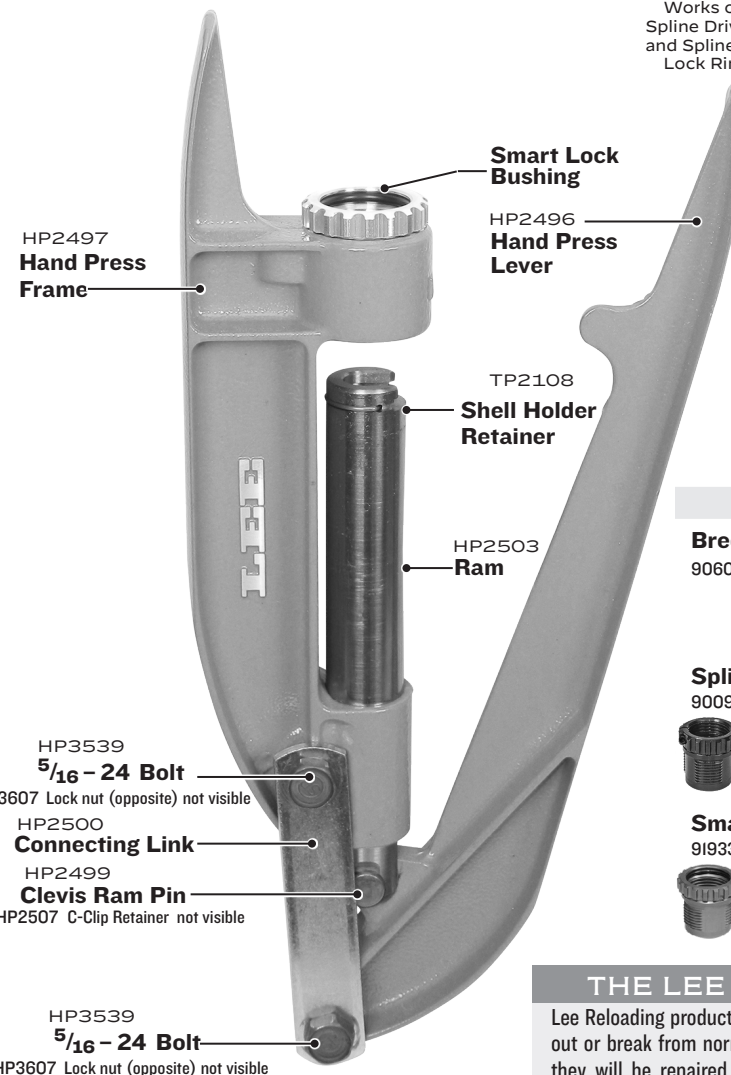
LOW PROFILE STEEL BASE WITH THROUGH RAM PRIMER DISPOSAL

COMPLETE INSTRUCTIONS **LEE**

BREECH LOCK HAND PRESS



Works on Spline Drive Bushings and Spline Drive Lock Rings



ACCESSORIES

Breech Lock Bushings 90600



Spline Drive Bushings 90095 4-Pack



Smart Lock Bushings 91933 4-Pack



THE LEE GUARANTEE

Lee Reloading products are guaranteed not to wear out or break from normal use for two full years, or they will be repaired or replaced at no charge if returned to the factory. Any Lee product of current manufacture, regardless of age or condition, will be reconditioned to new, including a new guarantee, if returned to the factory with payment equal to half the current retail price.

DANGER

Ammunition reloading can be dangerous if done improperly and can result in serious injury or death. Selecting and charging powder is the most important thing you can do for both the safety and accuracy for your reloads. Be absolutely certain you have the correct type and amount of powder before you attempt to reload any cartridge.

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. 2 Always wear safety glasses and hearing protection 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.



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.

LEE

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