

## COMPLETE INSTRUCTIONS FOR 3-DIE SET

# LEE PACESETTER 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

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. **Be sure to lube the inside of the case neck with a cotton swab.** The case may be immediately sized, or let the lube dry.



Lee Case Lubricant applied

Lee Lube can be thinned with up to four parts water for easier application and greater economy. If thinned, let the case dry before sizing.

## 2 FULL LENGTH SIZER



Screw the full length sizer in until it touches the shell holder. Then lower ram and screw the die in  $\frac{1}{4}$  to  $\frac{1}{3}$  turn more. Raise the ram and tighten the lock ring finger tight.

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  $\frac{1}{2}$ " and  $\frac{3}{4}$ " wrench are necessary.



**Stuck Case** If case is not lubricated, the rim will be pulled off and the case remains stuck in the die. If this happens — loosen, but do not remove the decapper clamp — with a  $\frac{3}{4}$ " and  $\frac{1}{2}$ " wrench. Use a  $\frac{3}{16}$ " drift punch and large hammer (1-lb. or larger) to tap on the decapper rod and drive the stuck case free. Replacement sizing dies may be purchased on our website at 50% product discount by applying the coupon code — **CARBHALFOFF** — to your shopping cart.

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## 3 PRIME

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 so there's 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.

The Lee Auto Bench Prime 90700



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## EXPANDER DIE

POWDER  
FUNNEL  
Order # 90190

FUNNEL  
ADAPTER



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

Screw the die in until it touches the shell holder, then back out 2 full turns. Finger tighten the lock ring, adjust the flare to your liking; turning inward increases the flare. For maximum case life, flare only enough to easily accept a bullet. In use, the expander plug travels approximately  $\frac{3}{8}$ " within the die and comes to an abrupt stop at extraction. This helps to shake the powder through. However, we recommend you check to be sure all the powder has cleared the funnel and expander plug.

*Be sure to occasionally clean the bullet lube from the expander plug  
to prevent a powder clog.  
to prevent a powder clog.*

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## CHARGE THE CASE

Select a load from the chart on the 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. The Lee Dipper is the safest and easiest powder measure to use. Adjustable powder measures should be double checked with a scale. Use the starting loads. You may work up to the never exceed loads gradually, provided you know how to watch for pressure signs.



**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.

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## BULLET SEATING DIE



Install a loaded round into the shell holder you wish to duplicate. Raise the ram to the top of its stroke and hold. Screw the bullet seating die in until it stops turning; release the lever, thread in an additional  $\frac{1}{8}$  turn. Finger tighten the lock ring. Now, screw the bullet seating adjusting screw in until you feel it touch the tip of the bullet. Your die is set. Bullets should be seated deep enough to work through the gun's action. See MAXIMUM OVERALL LENGTH on charge table. If more crimp is desired, screw the die in slightly and test until the proper crimp is formed. 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 the case capacity and increase the pressure.

The Bullet Seating die is equipped with a floating bullet seating plug 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. Send \$14.00 [\$8.00 for plug + \$6.00 shipping ] along with a sample bullet; order "Custom Seating Plug for Sample Bullet"



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## **FACTORY CRIMP™ DIE**

( NOT INCLUDED WITH LIMITED PRODUCTION DIES )

Screw the Lee Factory Crimp Die in to touch the shell holder, plus  $\frac{1}{2}$  turn more. Adjust in for a heavier crimp. It is usually best to start with too little crimp, as you can readjust and crimp again to suit your needs. When the four splits in the collet are closed, maximum crimp has been achieved. Do not try for more as the die will be damaged and the crimp excessive.

Bullets do not need a crimp groove as the Lee Factory Crimp Die will form one while crimping. However, it requires a harder push on the press lever to form the crimp.

FACTORY CRIMP IS A TRADEMARK OF LEE PRECISION, INC.

For a complete catalog, send your name and address

# **LEE**

**LEE PRECISION, INC.**

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