INSTRUCTIONS for the Lee Pro 1000
Helpful setup and operation videos available on www.leeprecision.com

PRESS MOUNTING
Both your press to a solid bench. Use 1/4" nuts and bolts of suitable length. (Available at all hardware stores, 3 each required.) For consistency, a 3/16" hole may be drilled through the workbench to permit straight presses to pass through. This hole may be located any place under the base of your press. Install roller handle shaft completely into the lever clamp. Be sure lever passes completely through the hole. Tighten securely to 25 lbs.

AUTO-DISK PRIMER MEASURE
The Lee Pro Auto-Disk Primer Measure is an improved version with a positive pull back. The bottom end of the chain should pass through the hole in the trigger. Attach the brass pendant to the chain so the measure is fully retracted when the user is in the extreme down position. Some chain should dangle below the pendant as the weight helps the chain slide through the cartridge hole on each cycle. Fine adjustment is not needed here as the chain affects to the powder measure. The chain passes through two holes in the lever and it will never move, you can adjust. Store the connecting link on the end of the chain. It will be available should you need it for a repair.

Install the proper disk into the Auto-Disk Primer Measure. See Auto-Disk Primer Measure Instruction Sheet for details. Select load from data supplied with your Lee from one of these five reliable sources. Fill the hopper with the correct powder.

SETTING UP
Slip the turret into the press with the sizing die (the one with the discharging pin) up front. The dies have been factory adjusted, but will require bullet depth adjustment, minor crimp adjustment and minor flare adjustment. See Lee Sizer Instruction Sheet for details.

FILL THE PRIMER TRAY
WARNING: Use only CCI or Remington brand primers. Other brands, especially Federal, can explode with sufficient force to seriously injure the user or persons nearby.

ALL PRIMERS ARE DANGEROUS and it should be undeniably that the primers may be deadly if ingested, breathed in through nostrils, or splashed in eyes or on skin. Should an explosion occur, our thoughts are focused on what safety glasses will normally prevent serious injury to the face and hands. However, due to the explosion, other injuries, possibly worse than those to the face, may have occurred. We do not take any position with respect to the quality of performance of primers available on the market. However, only those primers manufactured by CCI or Remington are recommended for use in the Lee Pro 1000—unless loading these primers—safety glasses must be used. NO OTHER PRIMERS should be used with the Lee Pro 1000.

LOADING A SINGLE CASE
Start with the lever in the full up position (shell plate closed). Always move the round through the press with the size die depressed.

1. Place an empty case in front of the case slider. Slowly raise the lever and the case slider will push the case into the shell plate. Slowly lower the lever to size and depress the case.
2. Raise the lever—the case will be indexed to the next position and be printed at the bottom of the stroke. IMPORTANT: The primer is seated during the last inch of lever travel. Make a conscious effort to feel the primer enter and fully seat into the case. Incomplete primer seating will not permit the case to eject from the shell plate. This seems to be the biggest problem for first time users.

3. Lower the lever, and the powder measure will automatically charge the case while expanding the case mouth to accept the bullet. Raise the lever and the powder measure will be positioned under the bullet seating die. Start a bullet into the case, then lower the lever to seat the bullet and crimp it in place. If you are unable to start the bullet into the case mouth because of insufficient flare, score the expanding die (the die with the powder measure) 1/4 turn deeper. If the bullet is not seated to the proper depth, turn the bullet seating adjusting screw in or out to suit. Crimp is increased by screwing the entire bullet seating die deeper. Make crimp adjustments no more than 1/4 turn. See Lee Instruction Sheet for details.

CAUTION: The rear two dies should never be adjusted so deep that they contact the shell plate. Discard any bullet that contacts the case. Raise the lever causes the shell plate to rotate and eject the loaded round into the chute. This completes one cycle.

The most important thing to remember is that once you start moving the lever in a direction, do not reverse directions until it comes to a complete stop and the two of the stroke—making sure that the primer is fully seated before another upstroke.

The hazards of not doing any: [A] a double charge at the top of stroke, [B] the shell plate will get out of line. (Should the shell plate get out of line, damage the groat by raising the shell plate carrier 1/4" and advance the shell plate by hand.)

Continuous loading one case at a time is at least satisfied all is in order.

YOU ARE NOW READY TO START PROGRESSIVE RELOADING

WITHOUT THE CASE FEEDER
At the bottom of each lever stroke, place a case in front of the case slider. At the top of each lever stroke, another bullet is inserted into the case.

Always slowly move the lever to the positive stop.

Priming is done on the lever upstroke. Learn to feel the primer being seated. Be sure to raise the lever completely to fully seat the primer.

Power is automatically depleted at the bottom of each stroke. After the powder has been added, it is imperative that the user is fully reloaded for indexing die from the charging die. A short stroke will cause a double charge

Anyway the press tends to bind—STOP! Determine the reason for the binding and correct the problem. Do not force it or something will be damaged.

ATTACH THE CASE FEEDER
Position the case feeder assembly to clear the turret ring and almost the thickness of a dime above a cartridge case. Slip the four turrets into the case feeder and fill them with cases, head down.

OPERATING INSTRUCTIONS
1. Do not run out of primers or powder. It is easy to forget because you will be turning out production much faster than you are accustomed to. What used to be an evening’s reloading is now accomplished in a few minutes.

2. Always move the lever smoothly through its full travel. A short stroke can cause a jam or double charge.

3. Do not force it or you will break something. If it does not feel right, stop and check out the problem.

4. Keep the primer trigger fully. Running out of primers will cause a jam.

5. Polish the cases with steel wool and lightly oil as to help load rounds slides into your container.

SAFETY CONSIDERATIONS
1. Never place more than 100 primers in the tray.
2. Use only Remington or CCI primers. Other brands, especially Federal brand, can explode with sufficient force to seriously injure the user or persons nearby.
3. Be sure of proper powder and charge for bullet weight selected.
4. Wear safety glasses when reloading or shooting.
5. Be extremely careful to avoid a double charge. If in doubt, empty the case and recycle it.
6. Do not permit distractions while loading. This is a complex machine that needs your full attention.
7. Do not increase the capacity of the powder measure. More powder is many times more hazardous.
8. Oil all moving metal parts every few thousand rounds or before use if the press has been idle two weeks or more. Use 20 wt. motor oil or equivalent.

WHEN THINGS GO WRONG
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Problems are usually caused by operator error. However, the Lee Pro 1000 is the fastest of all progressive presses to straighten out. The cases can be removed from each station; rotate the shell plate a few degrees by hand—the case can then be pulled out without damage to the spring fingers. If a partially seated primer holds the case in the shell plate, rotate the plates to the slot on the left edge and lift the case out.

The most important hazard to guard against is a double charge. It is always best to completely remove the offending case, dump the powder into the hopper and the case to the case feeder if the primer is not protruding.

After removing the offending case, continue loading. There is no need to have a case in each position.

PRIMERS NOT FULLY SEATED OPERATOR NOT Pushing hard enough
Shell plate carrier not fully seated, or lean on case
Obstruction to full travel

PRIMERS DON’T ENTER CASE PRIMER CRIMP not removed
Ream or swage primer pocket
Tipped primers Case not fully in shell holder
Improper index adjustment

CASES DON’T EJECT PRIMERS NOT FULLY SEATED CASES wedge against ejector pin
2-Bush taper case feeder

CASE FEEDER DOESN’T WORK PROPERLY "Wrong case feeder be sure you’re using the correct case feeder for the caliber you’re loading.
(See page 8 for proper combination.)

Z-BAR SLIPS OUT OF CASE SLIDE Z-BAR attachment not straight
Z-BAR attachment should be held to a slight inward pressure. The short end of Z-BAR should enter the case slides.

CASE DON’T ENTER SHELL PLATE Improper index adjustment
Adjust index. (See “Zero Adjustment” on page 6.

SHELL PLATE TURNS HALF WAY User damaged drive bolt
CHANGING THE SHELL PLATE CARRIER

1. Remove turret, primer tray and z-bar.
2. Loosen allen screw clamp.
3. Place wood block under carrier.
4. Use lever to pull ram out of carrier.
5. Set the shell plate carrier free from the press, loosen the screw that holds the ejector and remove the ejector. DO NOT LOSE IT!
6. Using a 1/4" hex wrench, turn the drive bolt clockwise to thread it out of the shell plate.
7. You must hold the shell plate from turning while doing this. A 3/8" hex wrench or small screwdriver through the plate in the direction position works well.
8. If changing primer size, be sure to change the primer trough and primer punch before installing a new shell plate.

INSTALLING THE SHELL PLATE CARRIER

The carrier is attached to the ram with a single socket head screw. This makes it very easy to change the entire carrier for caliber changing.

1. Push the carrier end through the carrier from the bottom until the end slightly protrudes through the top. Be sure the threaded end is down.
2. Be sure the twisted end is down.
3. Push the action rod up through the top of the press and continue rotation to level position. Be sure to keep the primer trough pin behind the right rear column.
4. Insert the assembly from the front of the press until it contacts the press in three places as shown.
5. Push the action roll up through the top of the press and continue rotation to level position. Be sure to keep the primer trough pin behind the right rear column.
6. Push the assembly onto the ram’s unit. Tighten the clamp screw with a hex wrench. DO NOT OVERTIGHTEN.

SHELL PLATE PARTS LIST

When changing calibers that use a different primer size, we recommend changing the entire shell plate carrier. If caliber uses the same primer size, you can easily change just the shell plate.

| CARTRIDGE | SHELL PLATE PARTS | SHELL PLATE INDEXING
|------------|-------------------|-------------------|
| 32 SW Long & 32 HR | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 38 Special & 357 Mag | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 45 ACP & 45 LR | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 50 AE | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 50 AE 500 gr. | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 223, 222 Rem & 7mm TCU | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 32 S&W | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 380 | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 41 ACP | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 45 Auto Rim | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 220 Russ | Primer Box, Primer Pipe, Primer Spring | Primer Box

| ZBAR | SHELL PLATE INDEXING
|-------|-------------------|
| 32 SW Long & 32 HR | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 38 Special & 357 Mag | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 45 ACP & 45 LR | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 50 AE | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 50 AE 500 gr. | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 223, 222 Rem & 7mm TCU | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 32 S&W | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 380 | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 41 ACP | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 45 Auto Rim | Primer Box, Primer Pipe, Primer Spring | Primer Box
| 220 Russ | Primer Box, Primer Pipe, Primer Spring | Primer Box

CHANGING SHELL PLATE ONLY

1. With the shell holder carrier free from the press, loosen the screw that holds the ejector and remove the ejector. DO NOT LOSE IT!
2. Using a 1/4" hex wrench, turn the drive bolt clockwise to thread it out of the shell plate.
3. You must hold the shell plate from turning while doing this. A 3/8" hex wrench or small screwdriver through the plate in the direction position works well.
4. If changing primer size, be sure to change the primer trough and primer punch before installing a new shell plate.

ZERO ADJUSTMENT FOR SHELL PLATE INDEXING

With the turret installed, raise and lower the shell plate carrier. If the shell plate does not index to the proper spot, turn the adjusting screw clockwise; the shell plate should move. If not—raise and lower the ram again to engage the slot. Keep turning until the shell plate snaps into place; then turn an additional 1/2 to 3/4 turn.

Confirm the zero adjust is set properly. With the carrier in the down position, try turning the shell plate counterclockwise; there should be no movement. If there is, rotate the zero adjust screw a fraction of a turn clockwise to remove all free play.

KEEP YOUR PRESS WELL OILED AND IT WILL LAST A LIFETIME

LEE BULLET FEEDER OPTIONS

The bullet feeder designed directly for the Pro 1000. Automatically feeds bullets into the mouth of the seating die.

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. Shooters should use only proven reloading tools and components.

Lee Reloading products are guaranteed not to wear out until major overhaul or condition. We do not accept responsibility for ammunition loaded with these tools or data as we have no control over the manufacture or storage of components or the loading procedures and techniques. Primers and powder, the gunpowder and metals, can be dangerous if improperly handled or mixed.

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