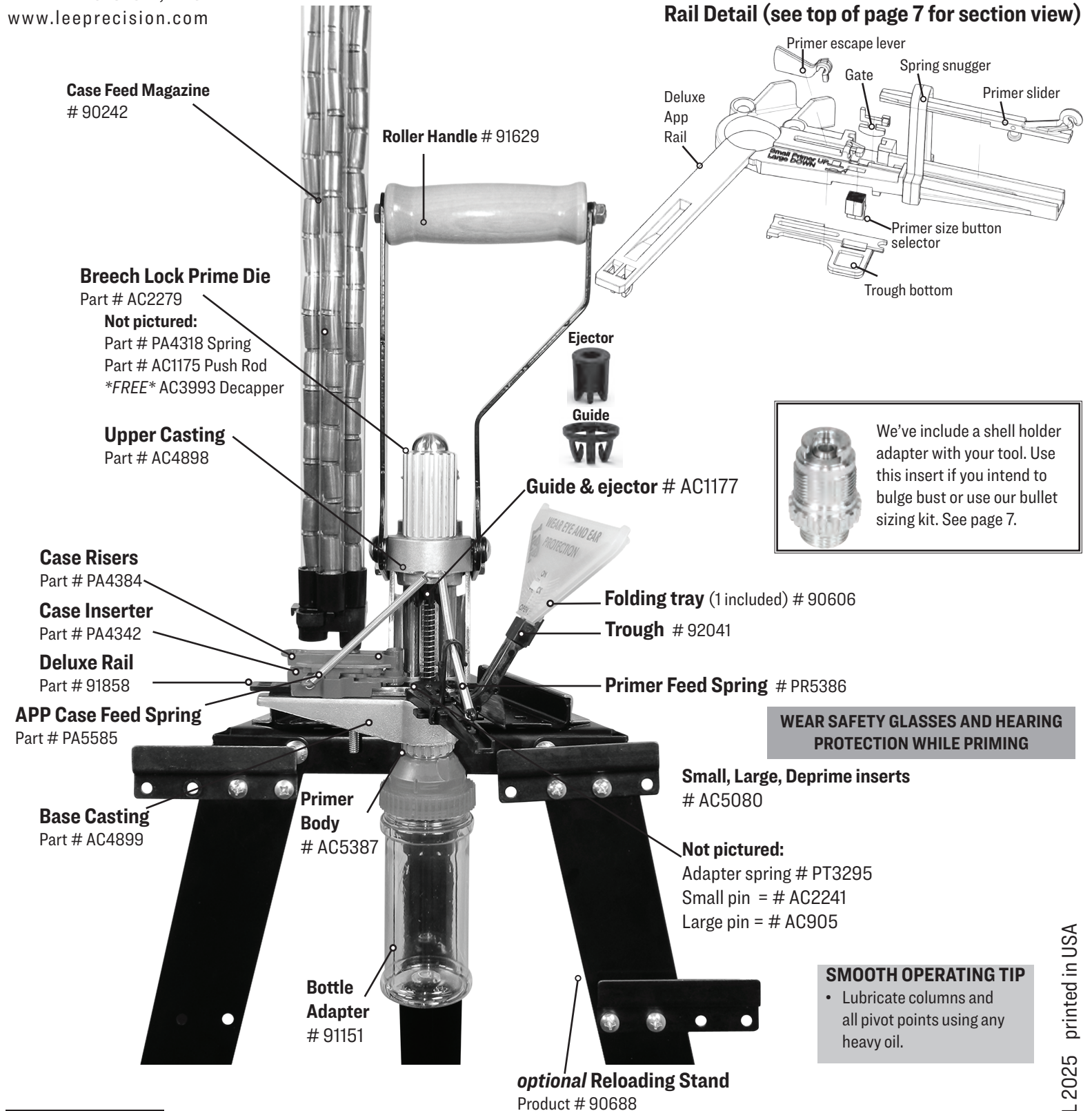


# LEE DELUXE APP PRESS

LEE PRECISION, INC.  
www.leeprecision.com

Rail Detail (see top of page 7 for section view)



**WARNING**

Primers will explode if they are impacted, shocked or crushed. Wear hearing and eye protection at all times.



**CAUTION**

Priming should not be attempted by persons not willing and able to read and follow instructions exactly. Do not permit distractions while priming.  
Children should not be permitted to prime without strict parental supervision.  
Always wear safety glasses and hearing protection when priming and shooting.  
Primers, 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](http://www.P65Warnings.ca.gov).

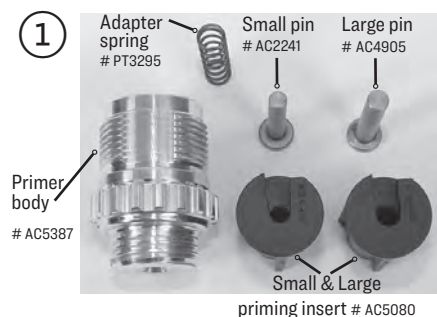
## MOUNTING DELUXE APP KIT

Press fits directly on LEE Steel Base Block included with Reloading Stand # 90688 or Bench Plate # 90251.

- OR -

Mount using three, 1/4" (6mm) bolts and nuts. Drill three 17/64" (7mm) holes in your work bench.

## CONFIGURING DELUXE APP KIT



Select the correct priming insert (small or large) and matching primer pin. The priming insert and pin are usable on rifle or pistol primers interchangeably.

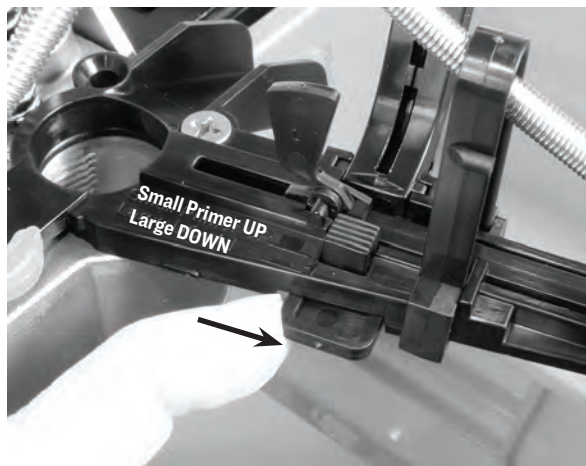
- ② Slide the primer spring over the correct primer pin and install into the correct priming insert.



- ③ Align the flat on the priming insert with an un-threaded portion of the primer body.



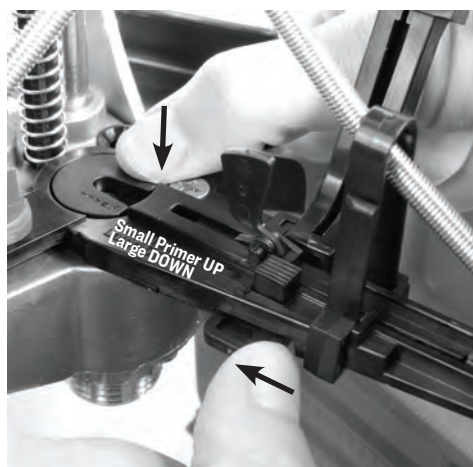
- ④ Verify lock is open (away from the rail).



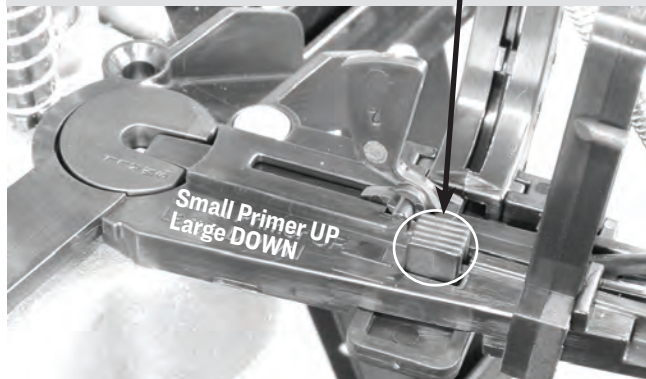
- ⑤ Install primer body assembly into the bottom of the base casting.



- ⑥ Depress primer insert, align to trough, slide lock forward to lock into position.



- ⑦ **VERY IMPORTANT** This button must be in **UP** position for small primers (shown above) and **DOWN** for large primers. If UP position is selected, glide finger underneath rail to verify it is flush with bottom of rail.





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## ADJUST JAWS & RISER INSTALLATION

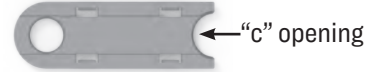
- A** Use a small flat blade screwdriver for the jaw adjustment.

With the handle in the down position, screw clockwise to tighten or counterclockwise to loosen.

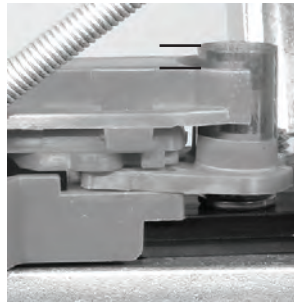
The tips of the jaws should be set slightly smaller than the case you are feeding.



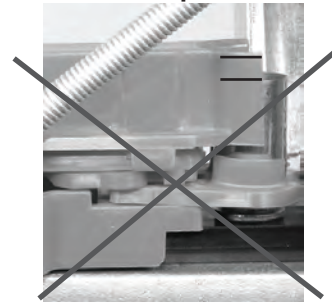
- B** Five risers are included, PA4384A-PA4384E. Only A, B, C and E will be used for case feeding. Select the tallest riser that is NOT taller than the case when installed on the case inserter. Place case on the rail to confirm correct riser. **Be sure the "C" side of the riser is above the jaws.**



**Correct**  
case mouth above top of riser.

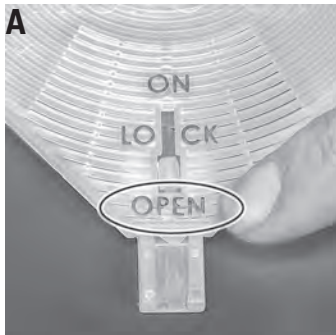


**Incorrect**  
Riser too tall. Case mouth is below the top of riser.

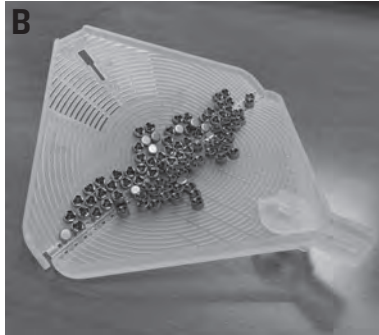


9

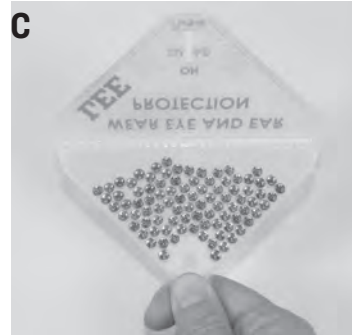
## LOADING PRIMERS INTO TRAY



Slide the flow control **OPEN**



Deposit 100 primers in tray.



Lift tray, shake tray side-to-side to upright all the primers. Fold and close cover. With large primers, occasionally a primer or two refuse to flip. Flip them by hand, fold and close cover.



Slide the flow control to **LOCK** position, feel for the detent. Grasp the top and bottom of the flow control valve using your thumb and index finger above and below tray.

**NOTE:** Make sure it is in the **LOCK** detent position, else primers may spill.



Insert the tray fully into the trough.

Move the flow control to the "ON" position. This is easy to do if you use your thumb and finger over the tray as shown.



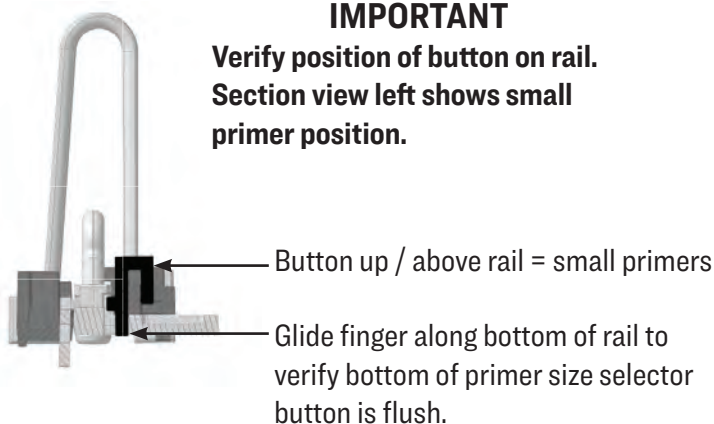
If this is your first fill, tap the tray side to side to fill the trough. Normal operation of the press will agitate the tray and fill the trough. **Important: keep at least 6 primers in the trough to insure continual feeding.**

(extra trays are available, product # 90606)

## BEGIN PRIMING

### IMPORTANT

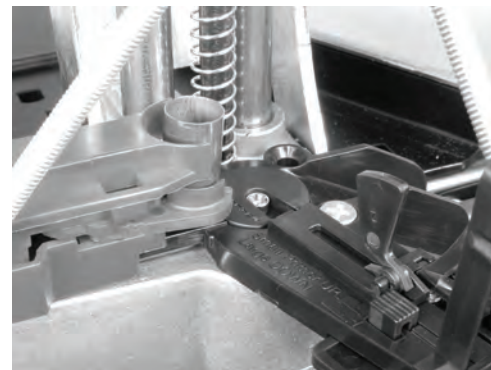
Verify position of button on rail.  
Section view left shows small  
primer position.



### WARNING

Wear hearing  
and eye  
protection while  
operating.

**A** Insert deprimed case into case inserter.



**B** Raise lever to center case on priming insert, ready to be primed.



**C** Cycle the press lever down to the stop to prime. No feel is required to properly seat primers. The primer pin protrudes a measured amount above the primer insert during priming. This controls seating depth regardless of case condition, primer pocket depth or pressure on the lever.



**D IMPORTANT! Push lever up to the press stops to feed the next primer. If you short stroke the lever, it will not feed the next primer in line.**

**IMPORTANT**  
Push to press  
stops!



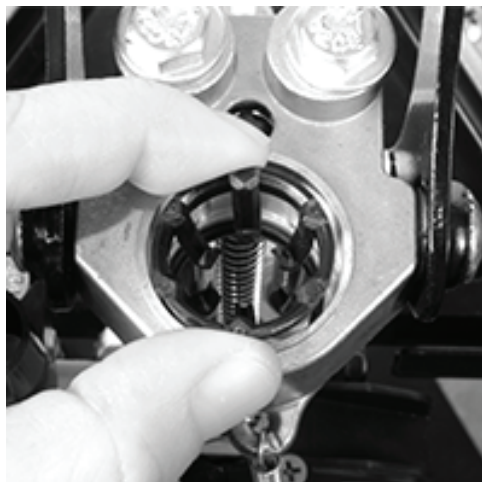
**E** Inspect primed case. Primer should be seated flush to slightly below. Priming is that easy! If you prime a lot of cases, your tool includes the universal case feed magazine. Be sure you prime enough cases, feeding them individually, before you attempt the installation of the case feed magazine.



### Tip:

If you operate the tool too rapidly or carelessly, a simple short stroke will not position the case centered on the priming platform. If the case is a large diameter, straight-walled case like the 45 ACP, on the down stroke you will likely shear one of the guide fingers. You must replace the guide fingers if 2 adjacent fingers are sheared. Replacement finger guide and ejector are available, part # AC1177. **If you replace the**

**finger guide, be sure a finger is aligned with the front and rear of the upper casting.**



**Ejector**      **Finger Guide**  
part # AC1177





# INSTALL CASE FEED MAGAZINE

Works well with most handgun and small rifle cases like the 223. Can be fitted with optional collator bowl # 90667, fills 4 tube feeder with **handgun** cases in about 10 seconds.

## TOOLS REQUIRED & SETUP

- 7/16" wrench

- 1 The case feeder assembly has a **SMALL** and a **LARGE** hole. See the cartridge setup chart (below, right), find the cartridge you wish to set the case feeder up for. See [FIGURE 1 through 2] to set up feed plate your cartridge calls for.

**FIGURE 1**

Assembled as a **SMALL** feed plate



**FIGURE 2**

Assembled as a **LARGE** feed plate  
small plug removed



If you need to convert to the **LARGE** feed plate, loosen 7/16" nuts and remove the 1/4" hex head bolt.



You must rotate the four tube cylinder slightly to align with the flats of the hex head bolt.

Move bolt and nuts to the opposite hole. Bolt is adjacent to large hole and small plug is removed.



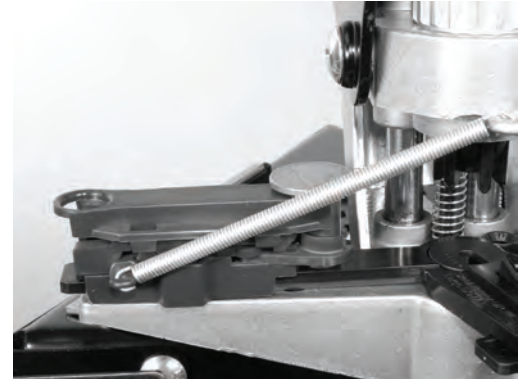
storage spot for small plug

When you convert to large, remove the small plug and place it between the nut and case feed assembly so you don't lose it.

## CARTRIDGE SETUP CHART

CARTRIDGE	FEED PLATE HOLE SIZE
30 Luger	SMALL
30 Mauser	SMALL
7.62 Tokarev	SMALL
32 ACP	SMALL
32 S&W	SMALL
32 S&W Long	SMALL
32 H&R MAG	SMALL
327 FEDERAL	SMALL
9mm Luger	SMALL
9mm Makarov	SMALL
32/20	SMALL
357 Sig	SMALL
38 Super	SMALL
38 S&W	SMALL
38 Colt NP	SMALL
380 Auto	SMALL
38 SPL & 357 MAG	SMALL
38 ACP	SMALL
38 Short/Long Colt	SMALL
40 S&W	SMALL
10mm Auto	SMALL
41 Mag	LARGE
44 SPL & 44 MAG	LARGE
400 Cor Bon	LARGE
30M1 Carbine	SMALL
44 Russian	LARGE
454 Casull	LARGE
45 ACP	LARGE
45 Colt	LARGE
45 GAP	LARGE
455 Webley Mark II	LARGE
223 REM	SMALL
7.62 x 39	SMALL
222 REM	SMALL
6.8 REM SPC	SMALL

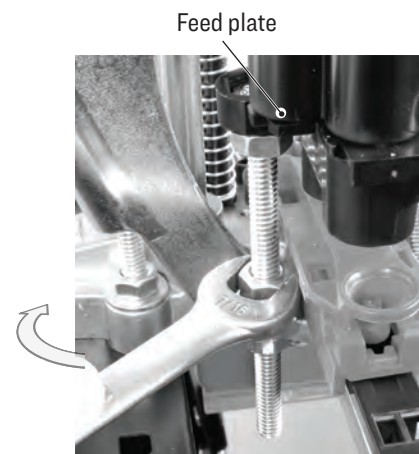
- 2 Insert case into jaws of slider base. Place a coin on top of the case mouth. (**See bottleneck case orientation below.**)



**Bottleneck case orientation. Note neck just clears top of notch.**

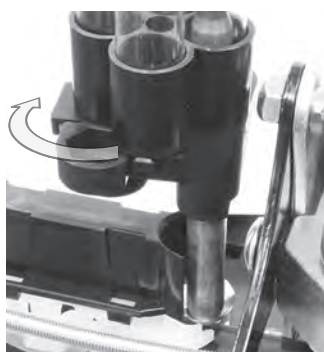


- 3 Slide the feed plate assembly into the base casting hole, and adjust the top nut so that the bottom of the feed plate assembly rests on top of the coin. Tighten the top nut so that the feed plate assembly clears the frame using a 7/16" wrench.



Instructions continued, see page 6 ->

- ④ Test operation on a few cases. If the cases drop too soon, they may rest on top of feed fingers. Rotate the feed tube support farther away (clockwise) from the press to delay the dropping. Because of the wide range of diameters and rim configurations, you will have to fine tune this position to provide reliable feeding.



**OPTIONAL CASE COLLATOR**  
product # 90667  
Works on most handgun cases, fills in about 10 seconds.

## CONVERT DELUXE APP TO WORLD'S MOST CONVENIENT DEPRIMING TOOL *included FREE!*

### Deprime Kit



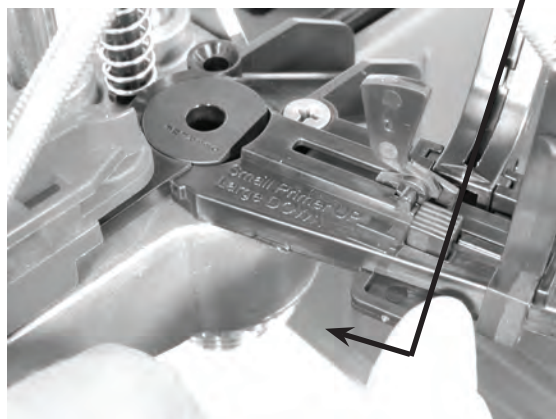
If you like to deprime and tumble clean your cases before sizing, we have included a depriming platform. No shell holders required, and cases shorter than 2 1/2" can be fed automatically with the case feed magazine. It makes your Deluxe APP press the fastest deprimer made.

- ① Replace the priming insert with the "DEPRIME" insert.



- ② Install into base casting and slide the lock forward.

Verify lock is pushed forward toward rail.



The primer feed can remain active while depriming.

- ③ Replace the primer push rod with the decapper and you're ready to deprime.



- ④ Install Breech Lock Prime die into press, tighten Breech Lock Prime die clockwise.

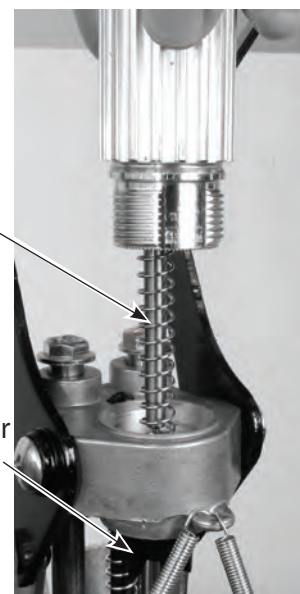
### Service Parts:

Decapper  
#AC3993

Spring  
#PA4318

### Service Parts:

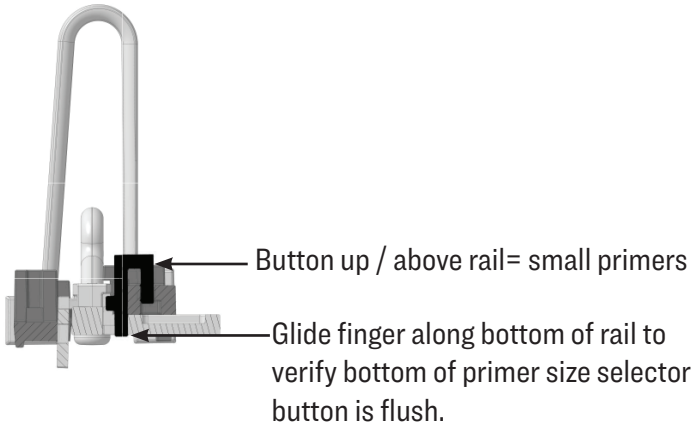
Guide & Ejector  
part #AC1177



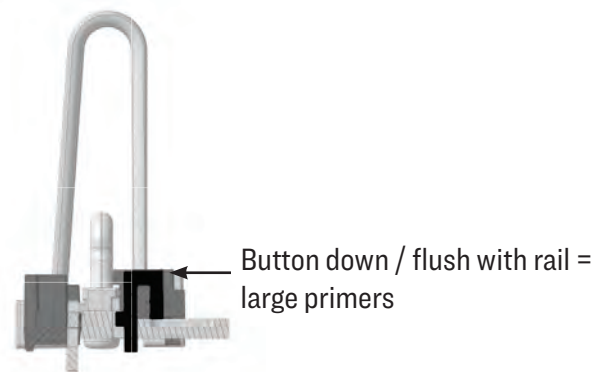
## TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Primer doesn't feed	<ul style="list-style-type: none"> <li>• Full lever stroke not be made</li> <li>• Primer trough not full</li> <li>• Primer size button selector on rail is in incorrect position.</li> </ul>	<ul style="list-style-type: none"> <li>• See page 4, step D. You must push lever from stop to stop to feed the next primer.</li> <li>• Maintain minimum of 6 primers in trough</li> <li>• See section views below, button must in correct position small or large to feed primers.</li> </ul>
Primer doesn't enter case	<ul style="list-style-type: none"> <li>• Primer crimp not removed</li> <li>• Wrong size primer</li> </ul>	<ul style="list-style-type: none"> <li>• Swage primer pocket with accessory App Swage Kit # 90237 or ream primer pocket.</li> <li>• Caution, some 45 ACP cases now have small primer pockets</li> </ul>

Section view of small primer position.



Section view of large primer position.



## 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.

## ACCESSORIES



X-PRESS  
shell holder



Shell Holder  
Adapter

### X-PRESS SHELL HOLDERS

The X-PRESS shell holder installs into the included shell holder adapter. Allows automation on the APP press for bulge busting. The pass through design reduces the amount of "pull" that can be applied to the cartridge. That said, we do not recommend full length resizing bottleneck cases with the X-PRESS shell holder.

Product	#	Cartridges	Product	#	Cartridges
91534	1	38 Long & Short Colt, 38 SPL, 357 MAG	91544	11	44 SPL/MAG, 45 Colt, 303 Sav.
91535	2	45 ACP, 308 Win., 30-06	91545	12	22 PPC, 6 PPC, 7.62x39R
91536	3	30/30, 6.5x55 Mauser, 32/40	91546	13	45 Auto Rim
91537	4	223 Rem, 5.56 NATO, 300 Blackout	91547	14	44/40, 45 Long Colt
91538	5	WSM's, 7mm Rem Mag, 303 British	91548	15	25 ACP
91539	6	218 Bee, 25/20, 32/20	91549	16	7.62x54R, 500 S&W
91540	7	30 M-1, 32 ACP	91552	19	40 S&W, 9mm Luger
91541	8	33 Win, 348 Win, 40/65, 45/70	91553	20	17 Hornet, 22 Hornet
91542	9	41 Magnum	91554	21	6.8 Rem SPC, 224 Valkyrie
91543	10	220 Swift, 6.5 Jap, 7x64 Brenneke			

### App Swage Kit product 90237

The fastest most convenient way to swage primer pockets. Will swage large and small primer pockets on any case up to 2 1/2 inches (30/06) long. Swage kit removes military primer pocket crimps as fast as you can operate the lever. No shell holders required! Large and small swage punches included. Exclusive case guided swage push die works without adjustment. It automatically aligns your case mouth to receive the push rod and six guide fingers center the primer pocket to the swage punch. Nothing to adjust simply install and begin swaging. Swage adjustment is a finger adjustable knob, no tools required.



### App Bullet Sizing Kit product 91532

Allows nose first bullet sizing, change size with an inexpensive punch and die. Nose first bullet sizing is the most accurate, distortion free and because you are pushing on the base of the bullet no special nose punches are required.



Bullets are sized as rapidly as you can operate the press lever. The sized bullets drop into an attached wide mouth container. This is the perfect tool for the now popular powder coated bullets.