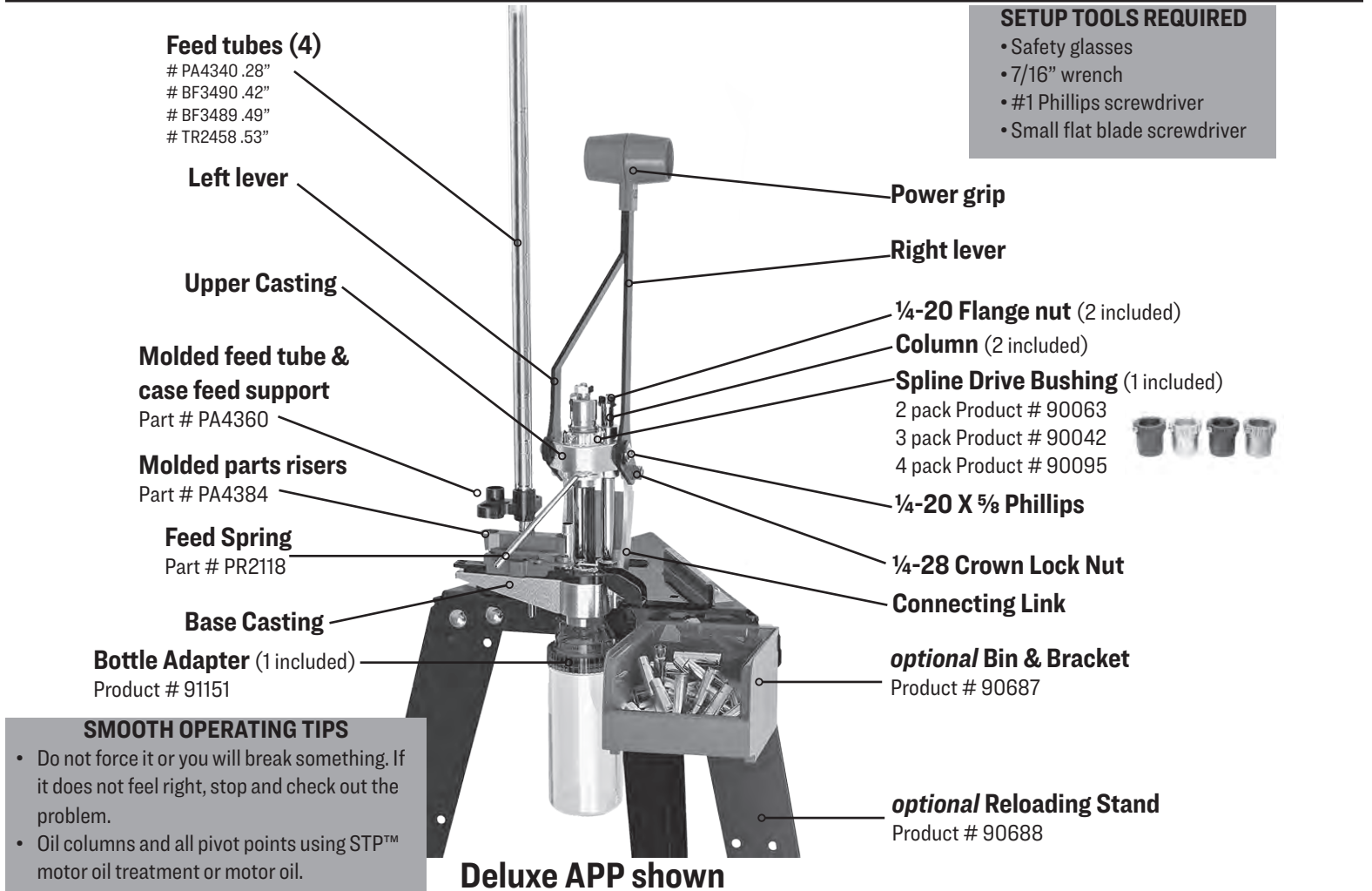


The APP is the most convenient single station press ever made. You can use any brand shell holder provided the outside diameter does not exceed 13/16" (20,6mm). Any brand or type of die will also work provided they have a 7/8-14 threading. Follow the instructions to install the shell holder, then adjust your dies according to the manufacturer's instructions.



### SETUP TOOLS REQUIRED

- Safety glasses
- 7/16" wrench
- #1 Phillips screwdriver
- Small flat blade screwdriver

### SMOOTH OPERATING TIPS

- Do not force it or you will break something. If it does not feel right, stop and check out the problem.
- Oil columns and all pivot points using STP™ motor oil treatment or motor oil.

## ! DANGER

Ammunition reloading can be dangerous if done improperly and can result in serious injury or death.

## ! CAUTION

Reloading 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 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](http://www.P65Warnings.ca.gov).

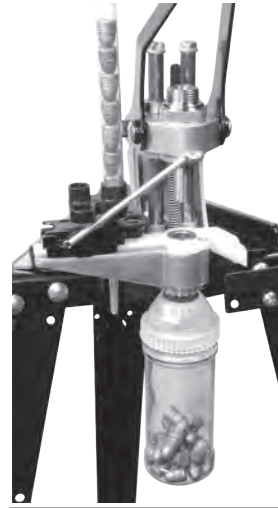
**! WARNING:** This product may contain steel alloyed with trace amounts of lead and other elements which are known to the State of California to cause reproductive harm and cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). To prevent exposure, do not alter the product by welding, grinding, etc.

# APP Accessories

**Automation Kit** *product 90511*  
Includes a revolutionary new kind of case and bullet feeder. Jaws automatically open and grasp bullet or case. They then rapidly position the case or bullet into the operating position. Once in position, the jaws instantly open and return for the next case or bullet. Includes feed tubes, tube supports, risers, case slider and 22 cal. bullet feed jaws.



**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.



**APP Primer Pocket Swage Kit** *product 91582*  
The new swage kit removes military primer pocket crimps as fast as you can operate the lever. Universal shell holder adapter allows you to use your press shell holder or X-PRESS shell holder to swage. Typical cases that you will encounter primer pocket crimps are 45 ACP, 223(5.56mm), 30-06, 308(7.62x51), 9mm Luger and special law enforcement 40 S&W.  
  
See complete product instructions shipped with kit.



**APP Bulge Buster Kit** *product 91572*  
The Lee APP Bulge Buster Kit and the appropriate Lee Factory Crimp Die, restores free function of rimless cases that have low base bulges. Low base bulges usually occur from chambers that do not fully support the cartridge or cases resized in carbide dies from manufacturers other than Lee.



## Heavy Duty Guided Decapper

Use in conjunction with Universal Decapping Die product 90292, guided decapper helps align the case to reduce the chance of bending or breaking a decapper.

Caliber	Product #
17 cal. & 204 Ruger	91574
22 cal.	91576
6mm to 25 cal.	91577
27 cal. to 7mm	91578
30 cal.	91580
34 cal. to 35 cal.	91581
40 cal.	91583
45 cal.	91584



**Breech Lock Ram Prime** *product 91612*  
Start priming in seconds, nothing to adjust. Includes small and large priming assemblies, no tiny parts to fumble with or lose. Effortless priming in the tightest pockets. Uses any brand press shell holder. Safe with all brands of primers.



## MOUNT YOUR PRESS

- The most convenient way to mount your press is with our Lee Bench Plate or Lee Reloading Stand. These systems includes all of the mounting hardware and allows for quick press removal without unbolting from bench. Follow mounting holes identified for Reloader Press as the APP uses the same mounting pattern.



# 90688  
Reloading Stand



# 90251  
Bench Plate

### Drill template



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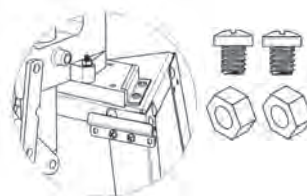
**-OR-**  
Purchase qty. 3, 1/4" bolts and nuts, and prepare your workbench for use with this press using the drill template provided here:  
[leeprecision.com/files/instruct/TMPLP.pdf](http://leeprecision.com/files/instruct/TMPLP.pdf)

Drill three 17/64" (7mm) holes.  
You can also use the press base as a drill template.

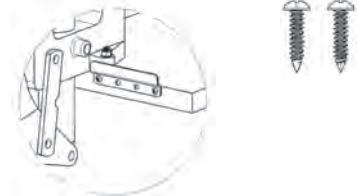
- Install **OPTIONAL** bin and bracket # 90687



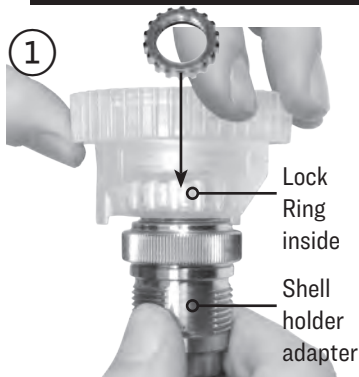
Mount to leg of Lee reloading stand using provided 1/4"-20" bolts and 1/4"-20 nuts



**OR** Mount to workbench using (2) provided # 8 Phillip Head Screws.



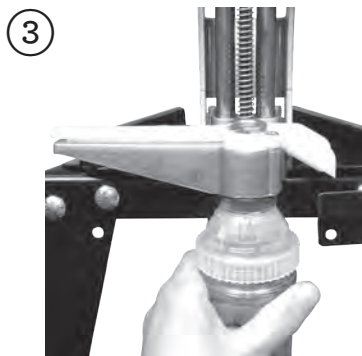
# CONFIGURING APP FOR RELOADING



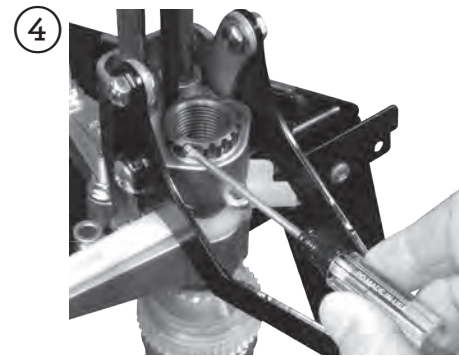
Place lock ring inside the bottle adapter. Install the bottle adapter on to the shell holder adapter as shown.



Install universal shell holder into the shell holder adapter. Attach bottle to adapter



Install this assembly in the base casting and secure with a 1/3 of a turn counter clockwise. Rotate the opening of the shell holder to the convenient loading platform to face the operator.

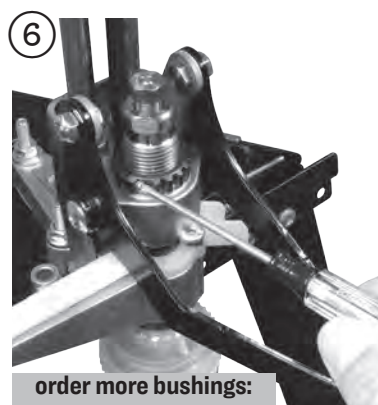


Loosen the Phillips screw on the spline drive bushing.



**Using Universal Decapping Die?**  
You may want to consider adding a heavy duty guided decapper to the die. Guided decapper aligns the case and decapping pin, reducing the likelihood of bending or breaking the pin.

Caliber	Product #	Caliber	Product #
17 cal. & 204 Ruger	91574	30 cal.	91580
22 cal.	91576	34 cal. to 35 cal.	91581
6mm to 25 cal.	91577	40 cal.	91583
27 cal. to 7mm	91578	45 cal.	91584



Lightly tighten Phillips clamp screw to retain position. When you are finished, you can remove the adjusted die from the press by rotating the spline drive bushing 1/3 of a turn counterclockwise. When you use it next time, it will return to perfect adjustment.

**order more bushings:**  
2 pack Product # 90063  
3 pack Product # 90042  
4 pack Product # 90095



## X-PRESS SHELL HOLDERS (required if you plan to use automation kit)

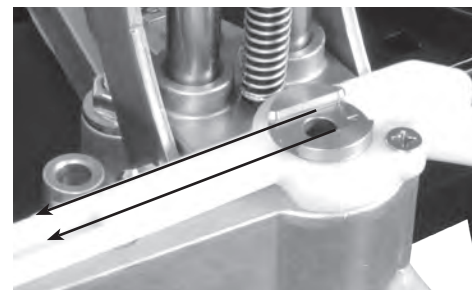
X-PRESS shell holders and the automation kit # 90511 make the nicest single stage press, the fastest. The balance of the instructions feature their use. A word about X-PRESS shell holders. The X-PRESS shell holder allows easy automation on the APP press, however, the pass through design reduces the amount of "pull" that can be applied to the cartridge. That said, we do not recommend full length resizing rimless bottle neck cases. If you insist, we suggest using only Lee dies and **Lee case resizing lubricant # 90006**. Only Lee dies include a built-in stuck case remover in the event you damage a rim and stick a case.

① Install cartridge specific X-PRESS shell holder into shell holder adapter. If you are depriming, install bottle adapter. (see step # 1 above)



The X-PRESS shell holder should rotate freely

② Install this shell holder assembly into the base casting and secure with a 1/3 turn counterclockwise. **If your shell holder does not rotate freely, the shell holder lips must be set absolutely parallel to the slide rail to allow case feeding.**



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		



Push flat blade screwdriver through shell holder adapter to remove detent.

If X-PRESS shell holder doesn't rotate freely, you have an early production shell holder. If you experience feeding problems, contact us for a replacement, or you can remove the detent from the shell holder adapter (see left) to allow free rotation. Don't discard the detent, it is required for other applications. This note only applies to X-PRESS shell holders manufactured before February 2020.

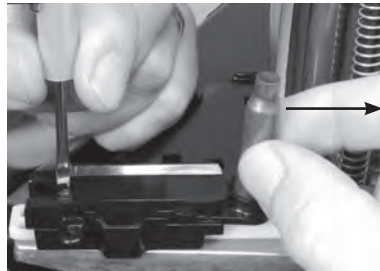
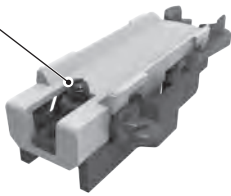
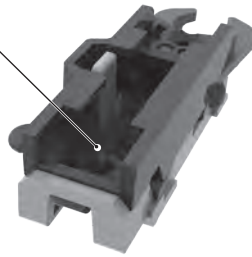


# INSTALLING THE BULLET/CASE SLIDER & ADJUSTING JAWS

## CASE FEEDING

The setscrew found on the rear of the case inserter closes the fingers on the return stroke of the case inserter. For most cases, the adjustment screw should be backed out to allow maximum jaw opening to allow the rim of the case to easily enter the jaws. The **ball end** of the setscrew should protrude slightly from the bottom of the actuator. Small diameter bottleneck cases such as the .223 may require slight adjustment of the setscrew inward to close the fingers trapping the case as it feeds from the feed tube.

Adjust the setscrew when the case inserter is at the end of the feed rail. Rotate the setscrew clockwise with flat blade screwdriver until there is a slight amount of capture when you slide the case out of the fingers. We found it best to adjust for the least amount of closure as it provides the largest target for the next case to feed.



1

## BULLET FEEDING

The case inserter is shipped with the large fingers installed. They will work with 25 caliber and larger bullets. If you are sizing bullets smaller than 25 caliber, change the jaws to the 22 caliber [ see FIG. 1 at website link below].

SEE INSTRUCTIONS HERE:  
[leeprecision.com/files/instruct/APPchangejaws.pdf](http://leeprecision.com/files/instruct/APPchangejaws.pdf)



Adjust the setscrew with the case inserter positioned at the end of the feed rail. Rotate the setscrew clockwise with flat blade screwdriver until the bullet is captured in the finger tips.



case inserter actuator

## RISER INSTALLATION

1

The automation kit includes 5 unique risers, PA4384A-PA4384E. These are double ended and are used for both bullet and case feeding. Case feeding uses the "C" opening and Bullet feeding uses the "O" opening. With case inserter installed on slider rail, select the riser that is slightly shorter than the case or bullet you wish to process.



### CASE FEEDING

Now, select the tallest riser that is NOT taller than the case when installed on the case inserter. Place on the rail to confirm correct riser. **Be sure the "C" side** of the riser is above the jaws.



Riser stop

Riser installed against stop

### BULLET FEEDING

Now, select the tallest riser that is NOT taller than the bullet when installed on the case inserter. Place on rail to confirm correct riser. **Be sure the "O" side** of the riser is above the jaws.



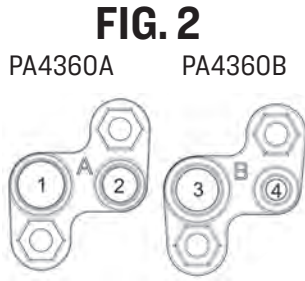
Riser installed against stop

**Proceed to installing tube supports. If cases | bullets do not freely drop into the jaws from the tube support, see top of page to adjust the jaws.**

# INSTALLING TUBE SUPPORTS

①

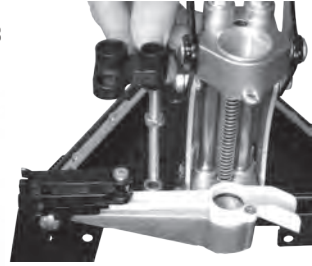
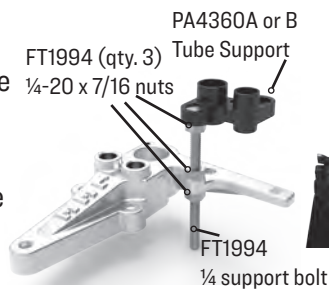
Select appropriate tube support PA4360A or PA4360B by passing your bullet or case through. Select the smallest hole that the case or bullet will flow through unrestricted.



②

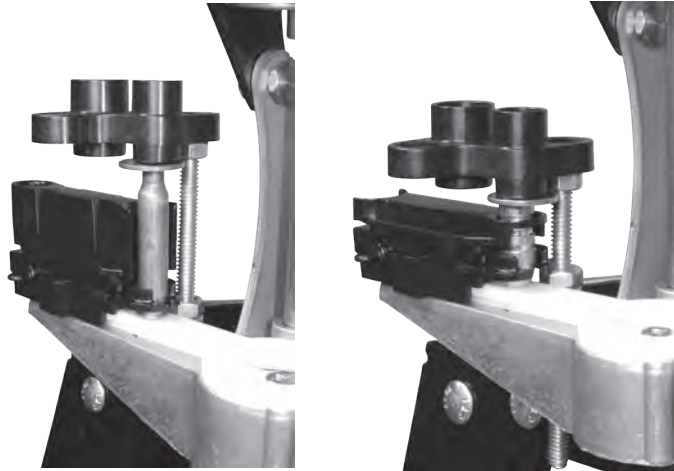
Insert 1/4" support bolt into the adjacent hole you just selected. Secure bolt with nut. Thread another nut onto bolt about half way. Slide the bolt into the APP base casting as shown.

### Orientation of tube support



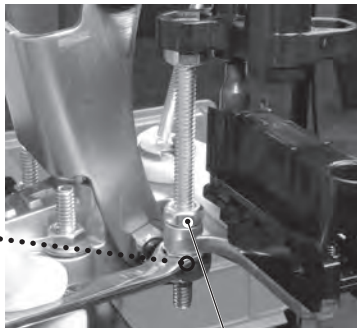
③

Place empty case|bullet into your previously configured and adjusted case inserter and position as shown. Adjust the nut up or down on the tube support bolt so there is approximately a coins thickness between the bottom of the tube support and the top of the case. Minimizing the clearance gives the best results.



④

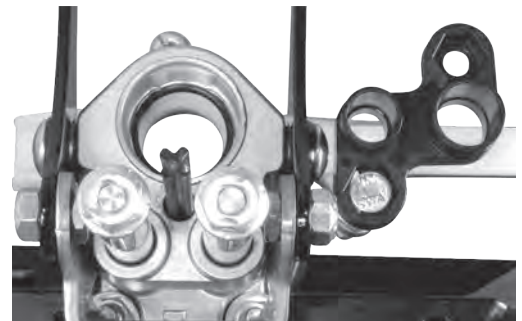
Install the last nut on to the tube support bolt underneath base casting, and tighten nut above rail with 7/16" wrench.



Tighten nut above rail with 7/16" wrench.

⑤

When you secure the nut, hold and orientate the tube support so it does not interfere with the press handle during operation as shown.



⑥

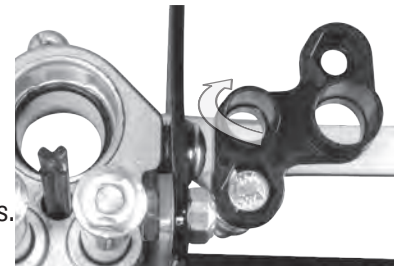
Install clear feed tube for the appropriate size hole in tube support.

**Note: due to the large manufacturer's tolerance on these tubes, some may fit loosely in the tube support. This does not affect anything, you can tighten the fit with a round or two of clear tape.**

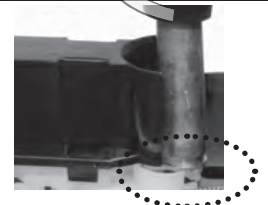


⑦

Lower handle. Re-attach spring to case inserter actuator. Cycle 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.



Case rests on fingers. Rotate feed tube support clockwise from press to delay the drop.

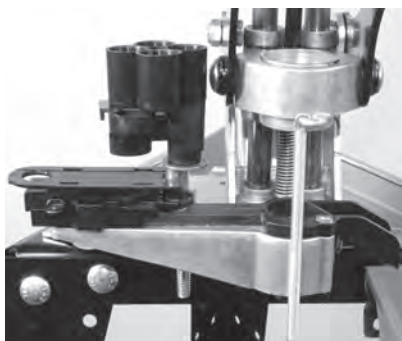


**Note:** while decapping mixed range brass, you may encounter cases with damaged rims that won't feed into shell holder. Remove this case and discard or repair rim damage to allow easy entry.

## INSTALLING UNIVERSAL CASE FEEDER (ACCESSORY # 90242)

Works well with most handgun cartridges 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. **This feeder will not work for bullet feeding.** You must use the case inserter supplied in the Automation Kit # 90511. The case slider included in the universal case feeder will not function correctly, it will not center the cases in the X-PRESS shell holder and there is no attach for the feed spring.

- With the spring unhooked from case actuator hook. Insert case into jaws of slider base. Place a coin on top of the case mouth. (See setting for bottleneck cases)

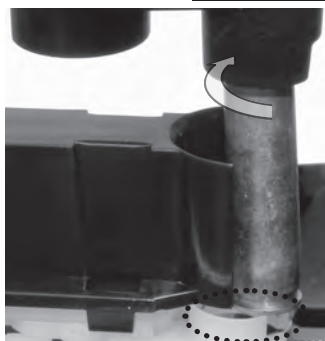


**Bottleneck case orientation. Note neck just clears top of notch.**

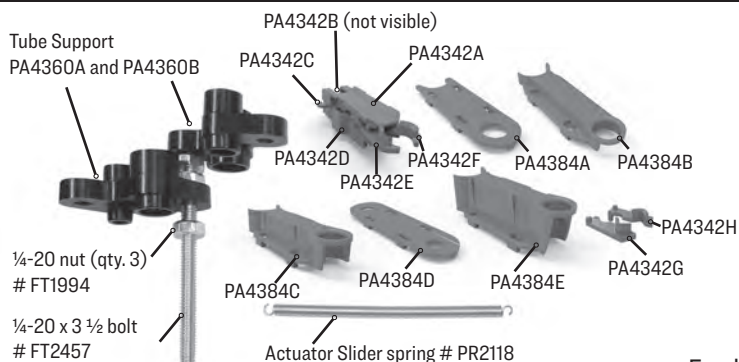
- Slide the feed plate assembly into the base casting hole, and adjust the top nut so that the bottom of the feed plate assembly rests on top of the coin. Tighten the top nut so that the feed plate assembly clears the frame using a 7/16" wrench.



- Re-attach the spring to the case actuator and 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.



## INSTALL SPRING & TEST AUTOMATION KIT SETUP



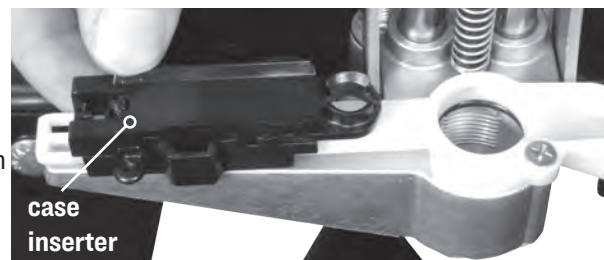
Feed tubes  
 # PA4340 .28"  
 # BF3490 .42"  
 # BF3489 .49"  
 # TR2458 .53"

PART #	DESCRIPTION	PART #	DESCRIPTION
PA4342A	Slider Top Rail	PA4342G	22 cal. Outer Jaw
PA4342B	Actuator Screw	PA4342H	22 cal. Inner Jaw
PA4342C	Actuator	PA4384A	0.53" Riser
PA4342D	Slider Base	PA4384B	0.75" Riser
PA4342E	Large Outer Jaw	PA4384C	1.0" Riser
PA4342F	Large Inner Jaw	PA4384D	0.53" Dual Riser
		PA4384E	1.3" Riser

- Install open end of spring into tab of upper APP press casting.



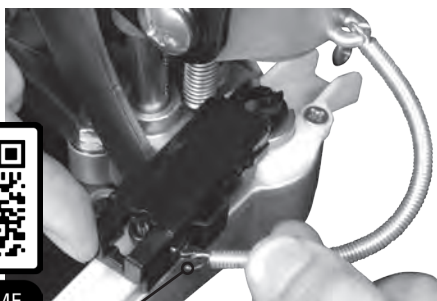
- Slide case inserter "jaws" first on to slide rail.



- Lower press handle to the 1/2 stroke position (2") and install spring on to case inserter actuator hook as shown. If the closed loop on the spring does not align with hook, twist the spring towards the press.



SCAN ME



case actuator hook

- Cycle the press handle, stop to stop, to ensure smooth operation back and forth. Notice how the jaws open and close when the direction of the slider changes.





# CONFIGURING APP FOR BREECH LOCK BULLET SIZING KIT



## Breech Lock Bullet Sizer Kit Product 91532

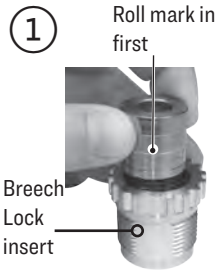
### Bullet Sizer & Punch

Product	Dia.	Product	Dia.	Product	Dia.
91505	.224	91514	.314	91523	.427
91506	.225	91515	.323	91524	.429
91507	.243	91516	.329	91525	.430
91508	.278	91517	.339	91526	.451
91509	.284	91518	.356	91527	.452
91510	.285	91519	.357	91528	.454
91511	.308	91520	.358	91529	.457
91512	.309	91521	.401	91530	.501
91513	.311	91522	.410	91531	.510

Diameter not listed? Custom service available factory-direct:  
[leeprecision.com/custom-breech-lock-bullet-sizer-punch](http://leeprecision.com/custom-breech-lock-bullet-sizer-punch)



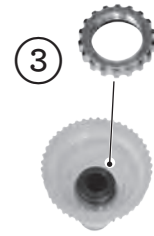
SCAN ME



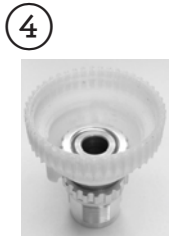
Insert roll marked end of bullet sizer in first into the Breech Lock insert.



Install long end of bottle adapter into Breech Lock Bullet Sizer insert.



Place lock-ring inside bottle adapter.



Secure lock-ring as shown. Thread on clear bottle or an empty powder container.

5

Install breech lock bullet sizer assembly in APP base casting.

Tighten  $\frac{1}{3}$  of a turn counter clockwise.



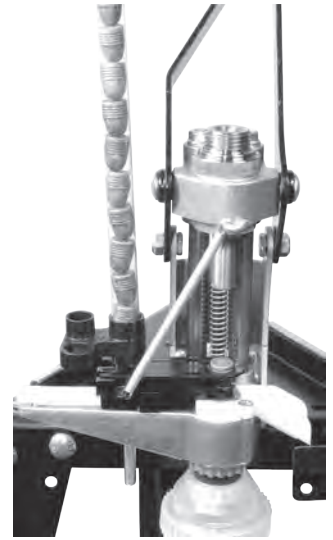
6

Install shell holder adapter and appropriate sized punch in upper APP casting.



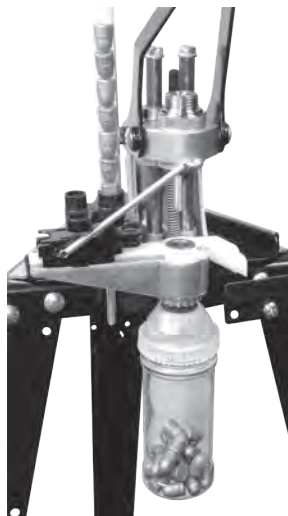
7

Load the feed tube with bullets (nose first)



8

Sized bullets will collect in bottle adapter. Or you can use your empty powder bottle or any bottle with a 53mm or 43mm thread.



### Note:

If you applied too much Lee Liquid Alox<sup>®</sup> on your bullets, you will have feeding problems as the bullets may stick to the tube or fail to fall from the fingers. If this happens, dust with powdered mica.

If powdered mica isn't available, you can use powdered graphite, but it's messy.



Have a Bullet Sizing Kit and want to install on APP press?



SEE INSTRUCTIONS HERE:

[leeprecision.com/files/instruct/InstallBulletSizingKitIntoAPPpress.pdf](http://leeprecision.com/files/instruct/InstallBulletSizingKitIntoAPPpress.pdf)

SCAN ME

# CONFIGURING APP FOR BULGE BUSTING

**APP Bulge Buster Kit product # 91572** restores free function of rimless cases that have low base bulges. Low base bulges usually occur from chambers that do not fully support the cartridge or cases resized in carbide dies from manufacturers other than Lee. These show a noticeable stop ring near the base. You will most likely find cases with these problems in mixed range brass.

**Please note:** if you have automation kit installed, insure the jaws are backed out (maximum jaw opening).

See Riser & Jaw adjustment page 4.

① Remove crimp sleeve and adjusting screw from carbide factory crimp die.



② Select appropriate intake funnel and insert into Breech Lock Bulge Buster insert holder.

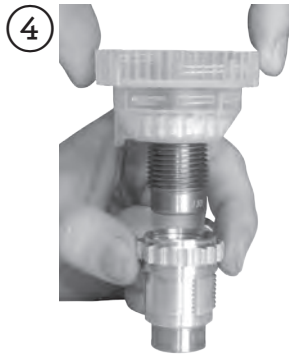
Intake funnel. Roll mark in first.



Breech Lock Bulge Buster intake funnel holder.

CARBIDE FACTORY CRIMP	CARTRIDGE	INTAKE FUNNEL
90867	380 ACP	380
90862	10mm, 40 S&W	10/40
90416	41 AE, 41 MAG	45
90864	45 ACP, 45 GAP, 45 WIN MAG	45

Spline drive lock ring must be used



Assemble the Bulge Buster and Carbide Factory Crimp Die.

