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 9/16-14 threading. Follow the instructions to install the shell holder, then adjust your dies according to the manufacturer’s instructions.

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

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.

**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. To prevent exposure, do not alter the product by welding, grinding, etc.
The most convenient way to mount your press is with our Lee Bench Plate or Lee Reloading Stand. These systems include 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.

-OR-

Purchase qty. 3, ¼” bolts and nuts, and prepare your workbench for use with this press using the drill template provided here: leeprecision.com/files/instruct/TMPLP.pdf

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

### APP Accessories

**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 XPRESS 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.

**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.

### 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.

### 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.

<table>
<thead>
<tr>
<th>Caliber</th>
<th>Product #</th>
</tr>
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<tbody>
<tr>
<td>17 cal. &amp; 204 Ruger</td>
<td>91574</td>
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<tr>
<td>22 cal.</td>
<td>91576</td>
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<tr>
<td>6mm to 25 cal.</td>
<td>91577</td>
</tr>
<tr>
<td>27 cal. to 7mm.</td>
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<td>30 cal.</td>
<td>91580</td>
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<tr>
<td>34 cal. to 35 cal.</td>
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</tr>
<tr>
<td>40 cal.</td>
<td>91583</td>
</tr>
<tr>
<td>45 cal.</td>
<td>91584</td>
</tr>
</tbody>
</table>

### Mount Your Press

1. 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.

-OR-

Drill template
Purchase qty. 3, ¼” bolts and nuts, and prepare your workbench for use with this press using the drill template provided here: leeprecision.com/files/instruct/TMPLP.pdf

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

2. 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.
1. Place lock ring inside the bottle adapter. Install the bottle adapter on to the shell holder adapter as shown.

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

3. Install this assembly in the base casting and secure with a ¼ of a turn counter clockwise. Rotate the opening of the shell holder to the convenient loading platform to face the operator.

4. Loosen the Phillips screw on the spline drive bushing.

5. Remove the lock-ring from your die, and install. Adjust according to your reloading die set instructions.

6. 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 ⅓ of a turn counterclockwise. When you use it next time, it will return to perfect adjustment.

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

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 sizing lube. Only Lee dies include a built-in stuck case remover in the event you damage a rim and stick a case.

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

Install this shell holder assembly into the base casting and secure with a ¼ turn counterclockwise. The shell holder must be orientated to allow cases to freely pass through (Shell holder lips parallel to the slide rail).

**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.

### Using Universal Decapping Die?

<table>
<thead>
<tr>
<th>Caliber</th>
<th>Product #</th>
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<tbody>
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<td>17 cal. &amp; 204 Ruger</td>
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</tr>
<tr>
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<td>91577</td>
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<td>91578</td>
<td>45 cal.</td>
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<table>
<thead>
<tr>
<th>Product #</th>
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<td>91540</td>
<td>30 M-1, 32 ACP</td>
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<tr>
<td>91541</td>
<td>33 Win, 348 Win, 40/65, 45/70</td>
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<tr>
<td>91542</td>
<td>41 Magnum</td>
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<td>91543</td>
<td>220 Swift, 6.5 Jap, 7x64 Brenneke</td>
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<td>91544</td>
<td>44 SPL/MAG, 45 Colt, 303 Sav.</td>
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<td>91545</td>
<td>22 PPC, 6 PPC, 7.62x39R</td>
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<td>91547</td>
<td>44/40, 45 Long Colt</td>
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<tr>
<td>91549</td>
<td>7.62x54R, 500 S&amp;W</td>
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<tr>
<td>91554</td>
<td>21</td>
</tr>
<tr>
<td>91555</td>
<td>224 Valkyrie</td>
</tr>
</tbody>
</table>

**Order more bushings:**

- 2 pack Product # 90063
- 3 pack Product # 90042
- 4 pack Product # 90095
INSTALLING THE BULLET/CASE SLIDER

If you want to make the most convenient press the fastest, add the Automation kit. The balance of the instructions features the Automation kit in use.

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

2. **Slide case inserter “jaws” first on to slide rail.**

3. **Lower press handle to the 1/2 stroke position (2”) and install spring on to case inserter actuator hook as shown.**

4. **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.**

---

**RISER & JAW ADJUSTMENT**

1. **Unhook the spring from the case actuator hook (step 3).**

---

**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
PA4342G | 22 cal. Outer Jaw | PA4384E | 1.3” Riser

---

**Feed tubes**
- # PA4340 .28”
- # BF3490 .42”
- # BF3489 .49”
- # TR2458 .53”

---

**Continued...**
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.

**FIG. 1 Change the jaws on case inserter to feed 25 cal. and smaller bullets**

1. Place case inserter assembly on work surface upside down. Remove flat head #4-40 Phillips screw as shown.
2. Flip assembly right side up, and lift off PA4342A top cover and remove the PA4342C actuator.
3. Remove the large inner and outer jaws PA4342E and PA4342F, and replace with PA4342G and PA4342H 22 cal inner and outer jaws.
4. Re-install the PA4342A top cover on top of the PA4342C actuator.
5. Re-install and tighten #4-40 Phillips screw with a small screwdriver.

---

**CASE FEEDING**

**Jaw Adjustment**

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.

**BULLET FEEDING**

**Jaw Adjustment**

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].

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.
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.

**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.

Proceed to installing tube supports. If cases/bullets do not freely drop into the jaws from the tube support, see top of page 5 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 ¼” 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.

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.

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.

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.

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.

1. 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)

2. 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.

3. 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.
CONFIGURING APP FOR BREECH LOCK BULLET SIZING KIT

Breech Lock Bullet Sizer Kit
Product 91532

Bullet Sizer & Punch

<table>
<thead>
<tr>
<th>Product</th>
<th>Dia.</th>
<th>Product</th>
<th>Dia.</th>
<th>Product</th>
<th>Dia.</th>
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<td>.314</td>
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<td>.410</td>
<td>91531</td>
<td>.510</td>
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</table>

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

1. Roll mark in first
2. Bottle adapter
3. Place lock-ring as shown. Thread on clear bottle or an empty powder container.
4. Insert roll marked end of bullet sizer in first into the Breech Lock insert.
5. Insert long end of bottle adapter into Breech Lock Bullet Sizer insert.
6. Install breech lock bullet sizer assembly in APP base casting.
7. Tighten ⅓ of a turn counter clockwise.
8. Load the feed tube with bullets (nose first)
9. 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® 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
**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 5.

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.
3. Spline drive lock ring must be used
4. Roll mark in first.
5. Breech Lock Bulge Buster intake funnel holder.
7. Slide Bulge Buster punch into shell holder adapter.
8. Tighten with a ⅓ of a turn clockwise
9. Install bulge buster assembly and tighten ⅓ of turn.
10. With the Automation kit installed, you can process cases rapidly.

*Insert cases into feed tube (case mouth down first) with case inserter assembly underneath.*

<table>
<thead>
<tr>
<th>CARBIDE FACTORY CRIMP</th>
<th>CARTRIDGE</th>
<th>INTAKE FUNNEL</th>
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</thead>
<tbody>
<tr>
<td>90867</td>
<td>380 ACP</td>
<td>380</td>
</tr>
<tr>
<td>90862</td>
<td>10mm, 40 S&amp;W</td>
<td>10/40</td>
</tr>
<tr>
<td>90416</td>
<td>41 AE, 41 MAG</td>
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</tr>
<tr>
<td>90864</td>
<td>45 ACP, 45 GAP, 45 WIN MAG</td>
<td>45</td>
</tr>
</tbody>
</table>

Bulge busted cases conveniently collect in catch container, or use your empty powder container for even more capacity.