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.

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.

**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**

- 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 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.

**MOUNT YOUR PRESS**

1. **OPTIONAL**

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

   - Mount to leg of Lee reloading stand using provided 1/4-20” bolts and 1/4”-20 nuts
   - Mount to workbench using (2) provided # 8 Phillip Head Screws.

---

**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 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.

### 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>
</thead>
<tbody>
<tr>
<td>17 cal. &amp; 204 Ruger</td>
<td>91574</td>
</tr>
<tr>
<td>22 cal.</td>
<td>91576</td>
</tr>
<tr>
<td>6mm to 25 cal.</td>
<td>91577</td>
</tr>
<tr>
<td>27 cal. to 7mm</td>
<td>91578</td>
</tr>
<tr>
<td>30 cal.</td>
<td>91580</td>
</tr>
<tr>
<td>34 cal. to 35 cal.</td>
<td>91581</td>
</tr>
<tr>
<td>40 cal.</td>
<td>91583</td>
</tr>
<tr>
<td>45 cal.</td>
<td>91584</td>
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</tbody>
</table>

**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 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.

**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.
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.

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

Install this assembly in the base casting and secure with a ⅓ of a turn counterclockwise. Rotate the opening of the shell holder to the convenient loading platform to face the operator.

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

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.

<table>
<thead>
<tr>
<th>Caliber</th>
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</tr>
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<tbody>
<tr>
<td>17 cal. &amp; 204 Ruger</td>
<td>91574</td>
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<td>91580</td>
</tr>
<tr>
<td>22 cal.</td>
<td>91576</td>
<td>34 cal. to 35 cal.</td>
<td>91581</td>
</tr>
<tr>
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<td>91577</td>
<td>40 cal.</td>
<td>91583</td>
</tr>
<tr>
<td>27 cal. to 7mm</td>
<td>91578</td>
<td>45 cal.</td>
<td>91584</td>
</tr>
</tbody>
</table>

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.

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

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.

RISER INSTALLATION

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 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.

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: 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.

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. 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

2. Install open end of spring into tab of upper APP press casting.
3. Slide case inserter “jaws” first on to slide rail.
4. 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.
5. 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.

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4342A</td>
<td>Slider Top Rail</td>
<td>PA4342G</td>
<td>22 cal. Outer Jaw</td>
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<tr>
<td>PA4342B</td>
<td>Actuator Screw</td>
<td>PA4342H</td>
<td>22 cal. Inner Jaw</td>
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<td>PA4342C</td>
<td>Actuator</td>
<td>PA4384A</td>
<td>0.53&quot; Riser</td>
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<tr>
<td>PA4342D</td>
<td>Slider Base</td>
<td>PA4384B</td>
<td>0.75&quot; Riser</td>
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<tr>
<td>PA4342E</td>
<td>Large Outer Jaw</td>
<td>PA4384C</td>
<td>1.0&quot; Riser</td>
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<tr>
<td>PA4342F</td>
<td>Large Inner Jaw</td>
<td>PA4384D</td>
<td>0.53&quot; Dual Riser</td>
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<td>Feed tubes</td>
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<td>1.3&quot; Riser</td>
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<td></td>
<td># BF3490 .42”</td>
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<td></td>
<td># BF3489 .49”</td>
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<td></td>
<td># TR2458 .53”</td>
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<td>¼-20 nut (qty. 3)</td>
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<td></td>
<td># FT1994</td>
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<td>¼-20 x 3 ½ bolt</td>
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<td></td>
<td>Actuator Slider spring</td>
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<tr>
<td></td>
<td># PR2118</td>
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<td></td>
</tr>
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</table>

Feed plates:
- Large Outer Jaw: 1.3" Riser
- Large Inner Jaw: 0.53" Dual Riser
- 22 cal. Outer Jaw: 0.53" Riser
- 22 cal. Inner Jaw: 0.75" Riser
- 0.53" Riser
- 1.0" Riser
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>.311</td>
<td>91522</td>
<td>.410</td>
<td>91531</td>
<td>.510</td>
</tr>
</tbody>
</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. Breech Lock insert
4. Insert roll marked end of bullet sizer in first into the Breech Lock insert.
5. Install long end of bottle adapter into Breech Lock Bullet Sizer insert.
6. Place lock-ring inside bottle adapter.
7. Secure lock-ring as shown. Thread on clear bottle or an empty powder container.
8. Load the feed tube with bullets (nose first)
9. Install shell holder adapter and appropriate sized punch in upper APP casting.
10. Install breech lock bullet sizer assembly in APP base casting.

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:
leeprecision.com/files/instruct/InstallBulletSizingKitIntoAPPpress.pdf
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).


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.

3. Spline drive lock ring must be used


5. Breech Lock Bulge Buster intake funnel holder.

6. CARBIDE FACTORY CRIMP CARTRIDGE INTAKE FUNNEL

<table>
<thead>
<tr>
<th>CARBIDE FACTORY CRIMP</th>
<th>CARTRIDGE</th>
<th>INTAKE FUNNEL</th>
</tr>
</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>
<td>45</td>
</tr>
<tr>
<td>90864</td>
<td>45 ACP, 45 GAP, 45 WIN MAG</td>
<td>45</td>
</tr>
</tbody>
</table>

7. Slide Bulge Buster punch into shell holder adapter.

8. Tighten a ⅜ of a turn clockwise.

9. Install bulge buster assembly and tighten ⅜ of turn.

10. With the Automation kit installed, you can process cases rapidly.

11. Push case through. BUSTED!

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