

FORSTER PRODUCTS

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User Instructions for the Forster Products Co-Ax® Reloading Press

Issue 7

1.0 GENERAL INFORMATION

The Co-Ax® Reloading Press is designed for two main purposes:

1. Rifle and pistol case resizing and bullet seating.
2. Rifle and pistol primer seating.

The Co-Ax Press accepts any 7/8" X 14 rifle or pistol reloading die. For proper press operation, you must use the two aluminum Cross Bolt Die Lock Rings provided in the Important Parts Packet (Figure 2) on either Forster Products Reloading Dies or on your own dies. The Cross Bolt Die Lock Rings are important for two reasons:

- They keep the Co-Ax Press T-Slot free from wear that may be caused by other harder steel lock rings
- They are the proper thickness to allow the dies to "float" in the T-Slot for optimal reloading

CAUTION

PRODUCT DAMAGE

- Do not drop the Co-Ax Press or expose it to sudden stresses.

Failure to comply with these instructions may result in product damage.

2.0 SHIPPING PACKAGE CONTENTS (See Figure 2.)

Your shipping package should contain the following:

- **Section A:** Co-Ax Press already assembled
- **Section B:** Important Parts Packet
- **Section C:** Loose Components

3.0 SAFETY INFORMATION



WARNING

PERSONAL INJURY

- Avoid possible pinch points.

Failure to comply with these instructions could result in death or serious injury.

Always wear safety glasses.

4.0 MOUNT THE CO-AX PRESS TO A WORK SURFACE

The Co-Ax Press may be directly mounted to a work bench, or to a board for later use on the range or in the field. Due to the extreme mechanical advantage engineered in the Co-Ax Press, only two "C" clamps are needed to fasten a board-mounted Co-Ax Press to a working surface.

1. See Figure 11 on page 8 for a scale drilling template.
2. Drill four 1/4" holes. Mount the Co-Ax Press using 1/4" lag bolts.

5.0 SETUP AND ASSEMBLY

5.1 Install the Handle

1. Insert the Handle into the Yoke Handle Casting (-055).
2. Using the 5/32" Allen Wrench (SHORTARMHEXKEY5/32), tighten the Handle Set Screw (5/16-24) (-028).

Note: A short handle with a ball end is available separately for use when less leverage is needed. See Section 9.0.

5.2 Install the Primer Catcher (See Figure 1.)

1. From below, insert the threaded part of the Primer Drop Tube (-057) through the hole in the Primer Catcher Cap (-050).
2. Screw the Primer Catcher Cap to the Primer Catcher Cup (-051).
3. Pass the Primer Drop Tube through the middle hole in the bottom of the Frame Casting (-031).
4. Screw the Primer Drop Tube into the tapped hole in the bottom of the Guide Block Casting (-045) until finger tight.

Figure 1. Primer Catcher Installation



5.3 Adjust the Jaw Opening Screw (-044) (See Figure 2.)

The Jaw Opening Screw controls the amount the lower Shellholder Jaws open to accept cases when the Handle is raised to its highest position. Adjust the Jaw Opening Screw's height so that the Shellholder Jaws completely open when the handle is in the full up position, but not so far up that it could damage the Shellholder Housing (-037). This important adjustment controls how far the jaws open to accept cases.

Figure 2. Co-Ax Reloading Press (028271) Nomenclature

Section A. Co-Ax Press with All Components Not Noted in Sections B and C Already Assembled

Section B. Important Parts Packet

1/8 Allen Wrench
(SHORTARMHEXKEY1/8)

5/32 Allen Wrench
(SHORTARMHEXKEY5/32)

7/64 Allen Wrench
(SHORTARMHEXKEY7/64)

Locator
(028271-018) (See Figure 9.)



Primer Drop Tube
(028271-057)

Primer Drop Tube Retaining Ring
(028271-056)

Small Primer Seater Assembly
(028271-101) (See Figure 7.)

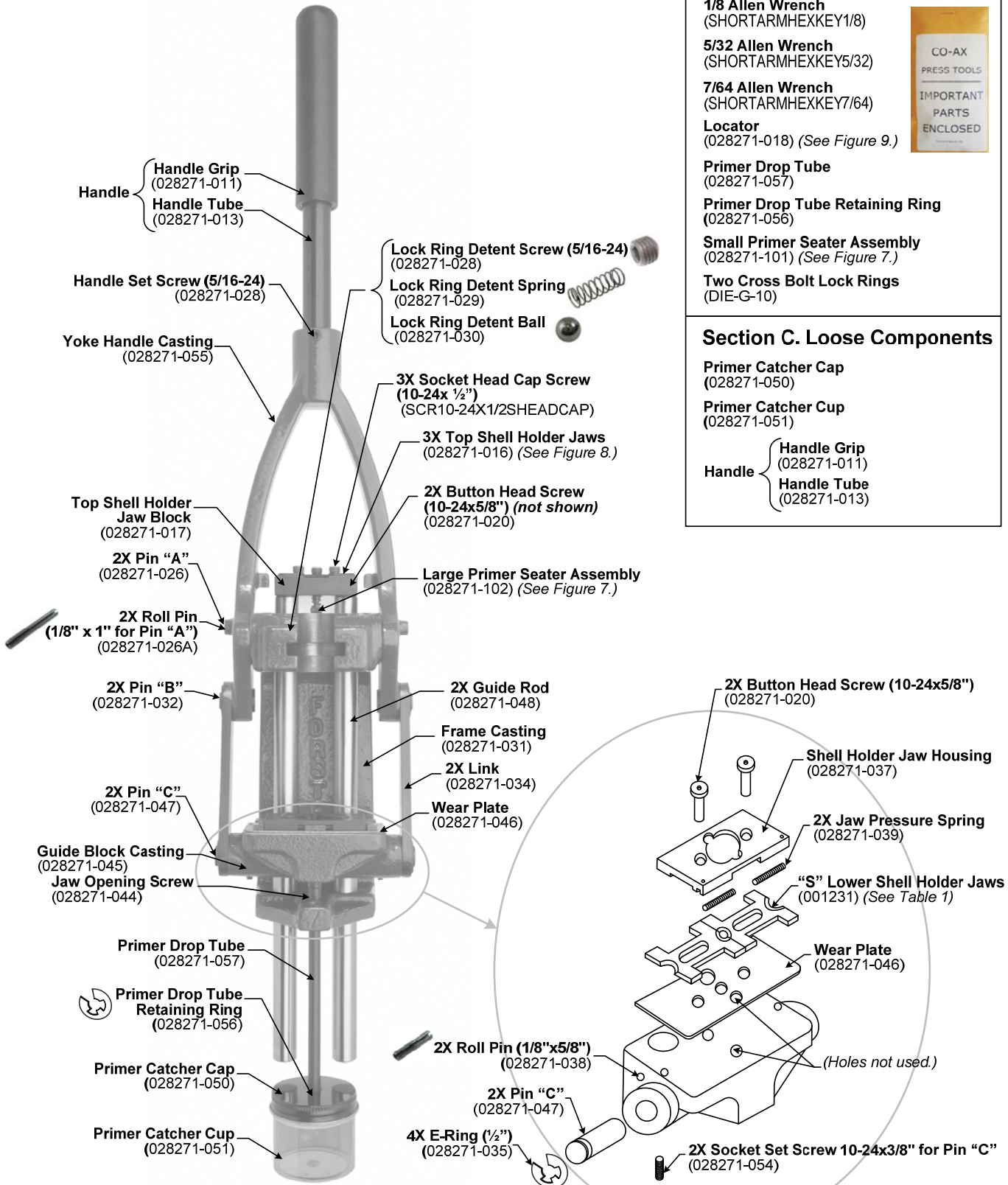
Two Cross Bolt Lock Rings
(DIE-G-10)

Section C. Loose Components

Primer Catcher Cap
(028271-050)

Primer Catcher Cup
(028271-051)

Handle { **Handle Grip**
(028271-011)
Handle Tube
(028271-013)



6.0 CASE SIZING AND BULLET SEATING

6.1 Choose the correct lower shell holder for the caliber being sized/seated.

- Table 1 shows the three lower shell holders available for the Co-Ax Press.
- Figure 3 shows how to use the on-line **FORSTER PRODUCTS TOOL SEARCH BY CARTRIDGE** to find which lower shell holder to use with your particular caliber,

Table 1. Lower Shell Holder Specifications

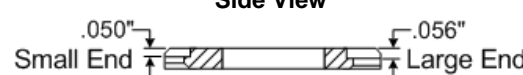
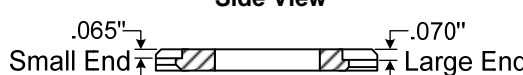
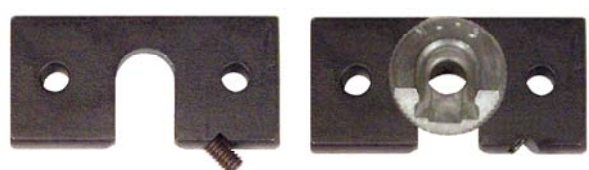
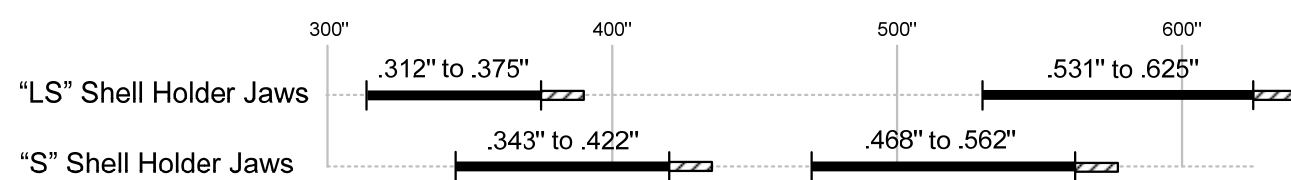
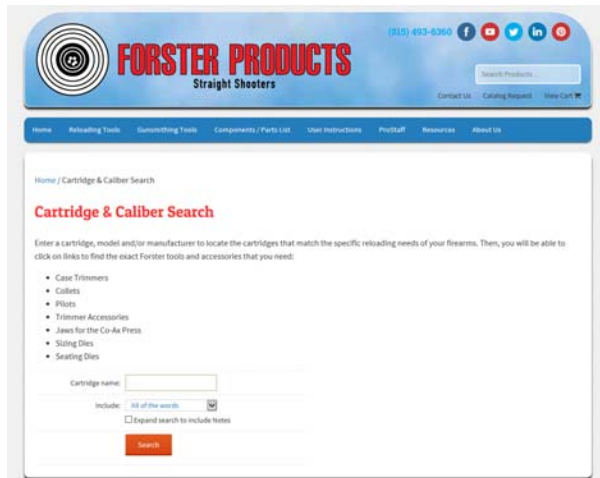
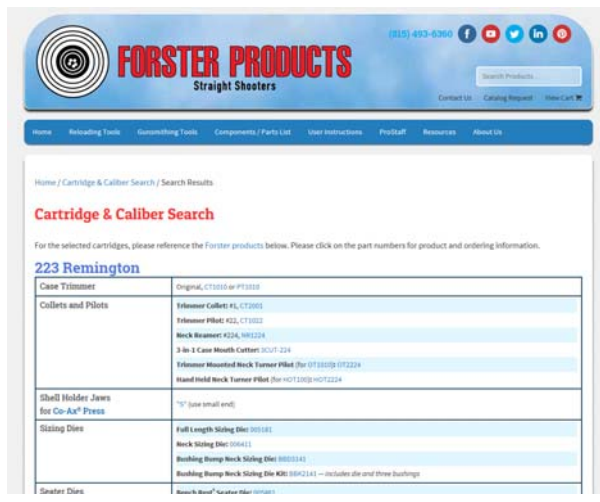
Name (Order Number)	Description	Dimensions	
“S” Lower Shell Holder Jaws (001231) <i>Factory installed on the Co-Ax Press with large ends aligned; ready for reloading.</i>	<ul style="list-style-type: none">Spring-loaded; automatically open and close on the case head when the case is inserted in the die and the Co-Ax Press handle is lowered for full length resizing, allowing the case to float. When the handle is raised and the case is extracted from the die, these jaws automatically open and release the case.Set of two.	Small ends hold: .343” to .422” rim	Large ends hold: .468” to .562” rim
			
“LS” Lower Shell Holder Jaws (001251) <i>Available separately.</i>	<ul style="list-style-type: none">Accommodates a wide range of very large and very small case heads.Spring-loaded; automatically open and close on the case head when the case is inserted in the die and the Co-Ax Press handle is lowered for full length resizing, allowing the case to float. When the handle is raised and the case is extracted from the die, these jaws automatically open and release the case.Set of two.	Small ends hold: .312” to .375” rim	Large ends hold: .531” to .625” rim
			
Lower Shell Holder Adapter Plate (AP1000) <i>Available separately.</i>	<ul style="list-style-type: none">For use with those few calibers that the “S” or “LS” Shell Holder Jaws do not accommodate. Requires a caliber-specific shell holder (not available through Forster Products).Not spring-loaded.Single plate.	<div>Without Caliber-Specific Shell Holder</div> <div>With Caliber-Specific Shell Holder</div> 	
Case Rim Diameter Comparison			
			
<div><div>Complete contact of shell holder to case - case held securely.</div><div>Incomplete contact of shell holder to case - case still held securely as determined by user.</div></div>			

Figure 3. On-line Search for Lower Shell Holder Jaws

1. Go to the cartridge search at <http://search.forsterproducts.com>.
2. Input your cartridge name (223 Rem is used here as an example). Click the "Search" button.



3. The search should return matching tools as shown below, including the Lower Shell Holder Jaws:



6.2 Change/Adjust the Lower Shell Holders (if Needed)

6.21 Change/Adjust the "S" or "LS" Lower Shell Holder Jaws (See Figure 4.)

Figure 4. Lower Shell Holder Jaws Change/Adjustment

Step 1: Using the provided 1/8 Allen wrench, loosen the two Button Head Screws (-020).

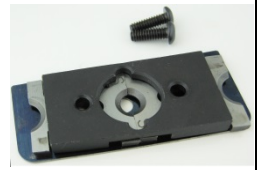


Step 2. Carefully lift off the subassembly containing:

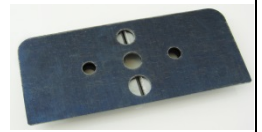
- Two Button Head Screws
- Shell Holder Jaw Housing (-037)
- Two Jaw Pressure Springs (-039)
- "S" or "LS" Shell Holder Jaws
- Wear Plate (-046).



Step 3: Remove the two Button Head Screws and set them aside. Set the component stack on a work surface.



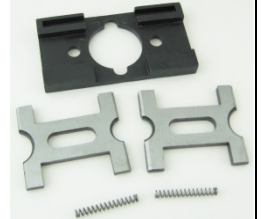
Step 4. Carefully turn the component stack over.



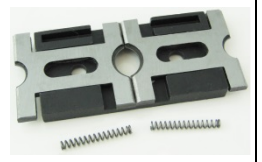
Step 5. Carefully slide the Wear Plate off and set it aside. This is to prevent the two Jaw Pressure Springs from coming loose too soon.



Step 6. Remove the "S" or "LS" Shell Holder Jaws and the two Jaw Pressure Springs, in that order.



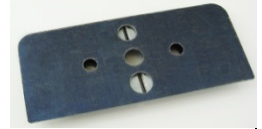
Step 7. Ensure the ends of the selected pair of Shell Holder Jaws are correctly matched. Insert them into the Shell Holder Jaw Housing.



Step 8: Replace the two Jaw Pressure Springs.



Step 9: Replace the Wear Plate. Ensure the rounded edge of the Wear Plate is placed over the two Jaw Pressure Springs.



Step 10: Carefully turn the component stack back over.



Step 11: Carefully pick up the component stack and replace the two Button Head Screws.



Step 12: Replace the subassembly on the Co-Ax Press and tighten the Button Head Screws.



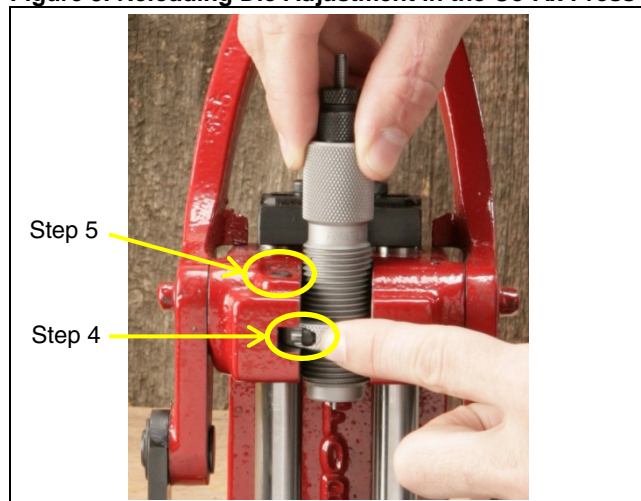
6.22 Optional Lower Shell Holder Adapter Plate Installation

1. Remove the Lower Shell Holder Jaws Subassembly following the instructions in Section 6.21 and set aside.
2. Remove the two Button Screws from the Lower Shell Holder Jaws Subassembly and place them in the corresponding holes in the Lower Shell Holder Adapter Plate.
3. Place the Lower Shell Holder Adapter Plate on the Co-Ax Press and tighten the Button Head Screws.
4. Using the 5/64 Allen wrench (provided separately with Adapter Plate) tighten the set screw against the shell holder.

6.3 Adjust the Sizing/Seating Die in the Co-Ax Press (See Figure 5.)

1. Unscrew the die approximately two-thirds out of the Cross Bolt Die Lock Ring, ensuring that its screw is centered in front.

Figure 5. Reloading Die Adjustment in the Co-Ax Press



2. Lower the Handle all the way down against the stop.
3. While holding the Lock Ring with one hand, screw the die through the Lock Ring until the die makes contact with the Shell Holder Jaws.
4. Using the provided 7/64 Allen wrench, tighten the Lock Ring in place on the die. For specific Forster Products Sizing and Seating Die Instructions, go to forsterproducts.com, then click "PDF Library/Instructions."
5. Do not overtighten the 5/16" Lock Ring Detent Screw (028271-028). This screw should be just tight enough to keep the die lock ring under tension. The die must be allowed to float for Co-Ax alignment. We recommend using Forster Cross Bolt Locking Rings (DIE-G-10).

7.0. PRIMER SEATING

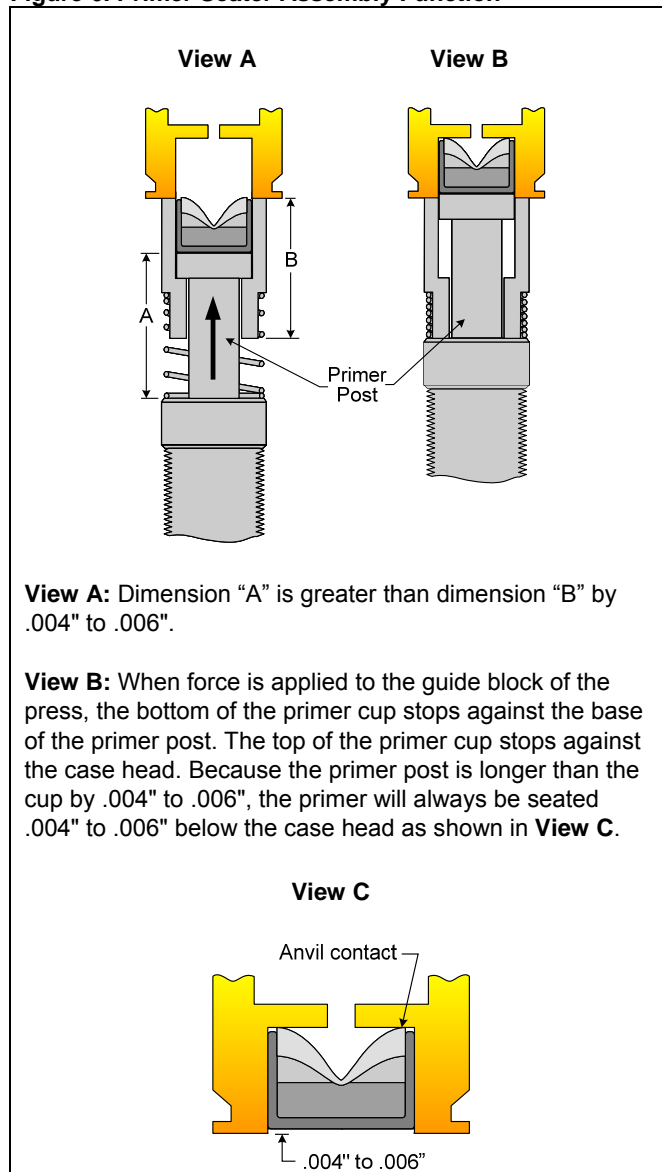
7.1 Primer Seating Overview (See Figure 6.)

Proper priming is one of the most critical operations in the reloading process. In order for your ammunition to perform efficiently, consistent ignition is absolutely mandatory. For this reason, we paid special attention to the priming function in the design of the Co-Ax Press.

The primer seater design is engineered with such precision that no excessive tolerance or "slop" is required in any of the mating parts. The primer post in the Primer Seater Assembly (see Figure 6) moves freely in its channel with minimal clearance. This extremely tight tolerance delivers remarkably consistent seating depth, time after time.

Regardless of the variation in the dimension of the case rim or the amount of force used in seating the primer, with the Forster Products Co-Ax Press, it is impossible to crush a primer or vary the seating depth.

Figure 6. Primer Seater Assembly Function

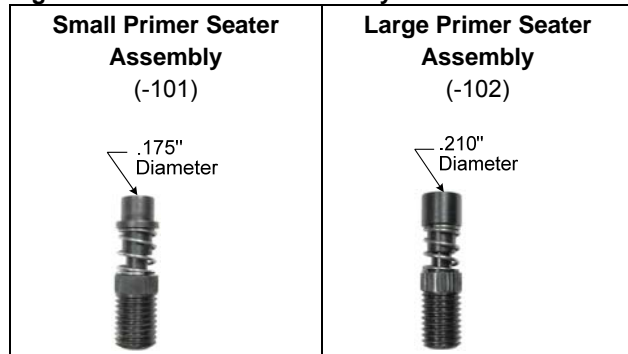


7.2 Adjust the Co-Ax Press

7.21 Primer Seater Assembly (See Figure 7.)

Based on the primer diameter being used, select either the Small Primer Seater Assembly or the Large Primer Seater Assembly (see Figure 7) and screw it into the Co-Ax Press.

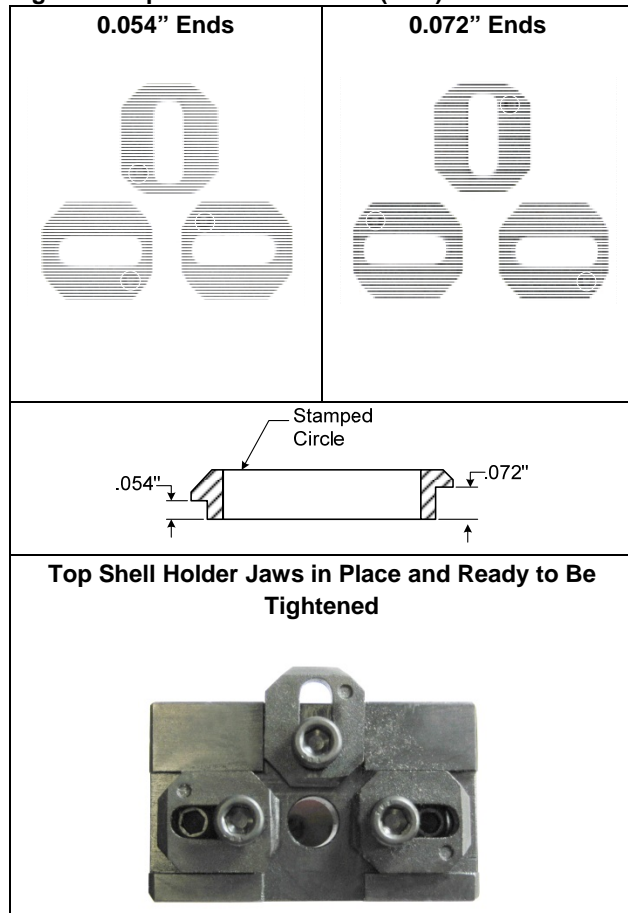
Figure 7. Primer Seater Assembly Versions



7.22 Top Shell Holder Jaws (See Figure 8.)

Based on the thickness of the case rim being used, ensure all three ends of the Top Shell Holder Jaws are matched and aligned, and held loosely face down on the Shell Holder Jaw Block (-017). Note the stamped circle that indicates which ends are aligned.

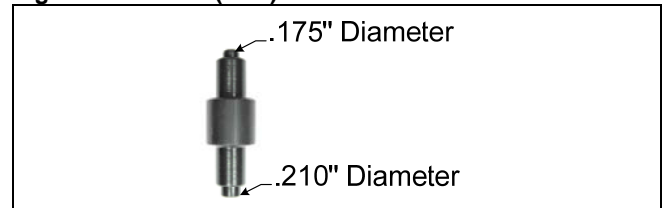
Figure 8. Top Shell Holder Jaws (-016)



7.23 Locator

1. Match the Locator end to the primer diameter being used (Figure 9).

Figure 9. Locator (-018)



2. Lower the Co-Ax Press Handle until there is enough room to insert the Locator up into the Top Shell Holder Jaw Block (-017) from underneath.
3. Center an unprimed case on the Locator.
4. While holding the locator in place, adjust the three Top Shell Holder Jaws inward onto the case rim and tighten the three Socket Head Cap Screws (SCR10-24X1/2SHEADCAP) around the case. Do not overtighten. (See Figure 10.)

Figure 10. Locator in Use



5. Lower the Co-Ax Press handle and remove the Locator. You are now ready to prime. If the case rim is either too loose or too tight, try using the opposite end of the Top Shell Holder Jaws.

7.3 Prime Your Cartridges

NOTICE

Wear thin medical gloves on the primer hand to improve the grip and help keep the primer from contamination.

1. Insert the primer on the Primer Seater Assembly and the case on the Top Shell Holder Jaws following the instructions below.



WARNING

PERSONAL INJURY

Failure to comply with these instructions could result in death or serious injury.

Ensure you use one of the two following positions for inserting the primers on the Primer Seater Assembly and the cases on the Top Shell Holder Jaws:

Left-handed primer handling:

1. Facing the press, take a position to the left of the press.
2. Lower the handle forward approximately 90 degrees.
3. From the rear of the press, use your left hand to insert the primer and the right hand to insert the case.



Right-handed primer handling:

1. Facing the press, take a position to the right of the press.
2. Lower the handle forward approximately 90 degrees.
3. From the rear of the press, use your right hand to insert the primer and the left hand to insert the case.



2. Raise the Co-Ax Press handle to seat the primer. Only a very small amount of force is needed.

FORSTER VIDEO LIBRARY



Go to the online Video Library at forsterproducts.com to see videos of the Co-Ax Press.

8.0 MAINTENANCE

- Use a good quality gun oil to lubricate moving parts, wipe all unpainted parts with oil to prevent rust.
- When not in use, keep a protective cover, such as our 028271-300 (see Table 2), over the Co-Ax Press.

9.0 REPLACEMENT PARTS

Every product component is available individually. A complete list of component order numbers and prices is available on our website. Go to forsterproducts.com, then click **Components/Parts Price List**.

Table 2. Accessories

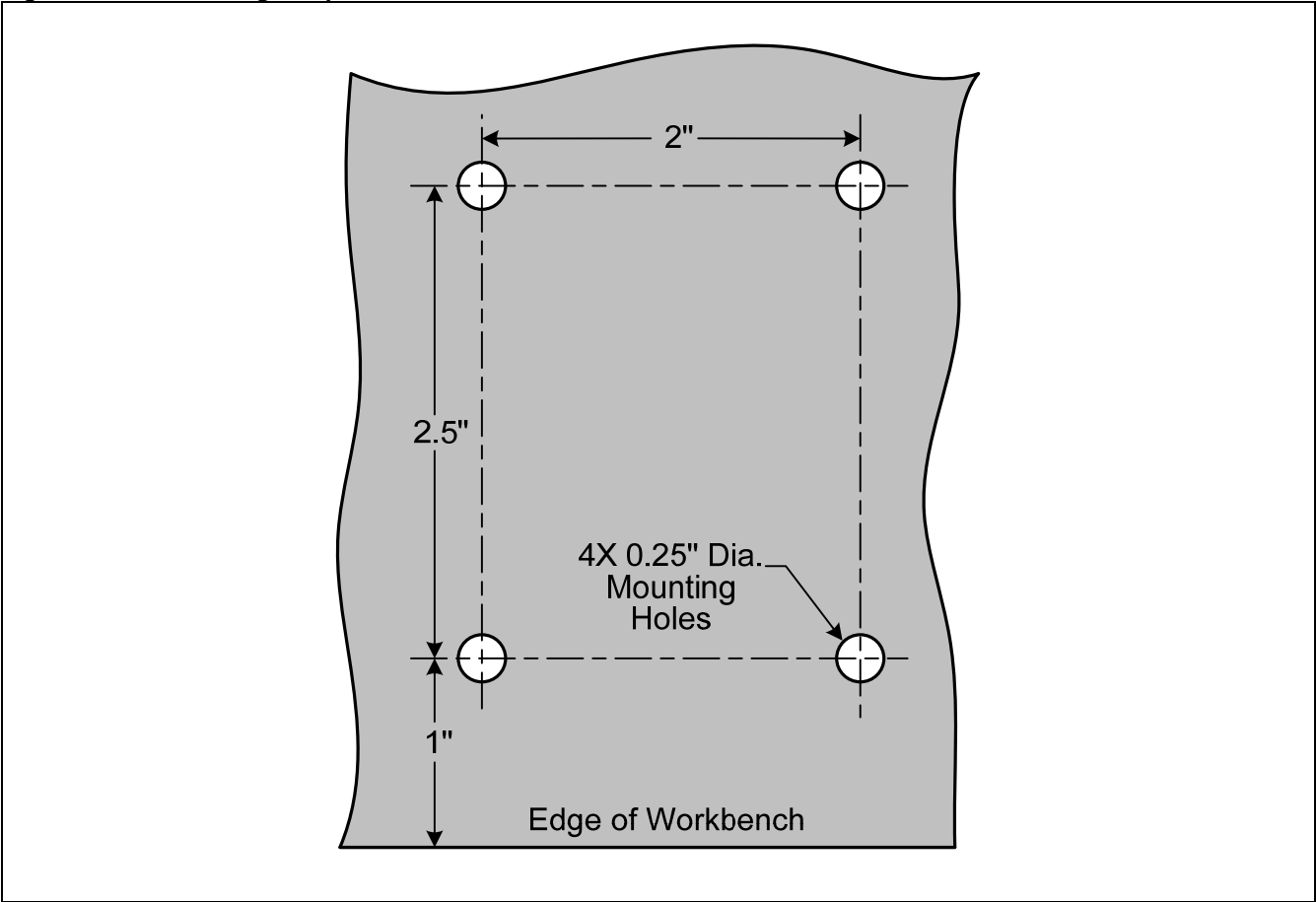
Order No.	Description
SH1000	Short Handle for Co-Ax Press 
028271-300	Protective Cover for Co-Ax Press (Press not included) 

10.0 DISTRIBUTORS/RESELLERS

See www.forsterproducts.com for complete documentation and part numbers.

For best prices, contact your Forster distributor. Experienced distributors are an integral part of the shooting sports. Please make frequent use of their knowledge and support them. If your distributor cannot supply you, please contact us by email, fax or phone.

Figure 11. Scale Drilling Template



11.0 RELEASE HISTORY

Model	Revisions/Enhancements
B1	Compound leverage, reloading press. (Designer: Clarence Purdie in conjunction with Army Marksmanship Unit)
B2	Eliminated removable shellholders from top priming station.
B3	Added 1 1/8" more clearance under yoke handle to accommodate tall dies.
B4	Enlarged drop tube (028271-057) for primer collection and larger set screw (028271-028) for securing handle.

WARRANTY

All Forster Products are warranted against defects in materials and workmanship for the life of the product. Parts excluded from the warranty are those that, by nature of their function, are subject to normal wear (such as springs, pins, etc.) or that have been altered, abused, or neglected. If the product is deemed defective by workmanship or materials, it will be repaired, reconditioned or replaced (at Forster's option). This warranty supersedes all other warranties for Forster Products, whether written or oral.