Lyman Accu-Prime Instructions

Congratulations on purchasing Lyman's Accu-Prime tool, one of the most accurate priming tools available! What makes this tool so accurate is our patented adjustable priming punch (US Patent #11,713,950). Other priming tools use the top surface of the rim to hold the case during priming, and then either use "feel" for primer depth, or a tool stop of some sort. However, even tools with a stop are susceptible to rim thickness variations, which will then transfer these variations to primer seating depth. Our patented adjustable priming punch is unique in that it stops against the bottom surface of the cartridge case. In this manner, you can control the exact amount of primer depth below the bottom surface of the case.

Warning! Read All Warnings Before Using This Tool!

Primers can explode if subjected to excessive force, shock, heat, or crushing! Never force a primer with this tool. If any unusual force is required when seating a primer, STOP IMMEDIATELY and determine the cause. Causes could include a tipped primer, a military case with a crimp still in place, the case may have a primer in place, foreign object debris, or primers could be the wrong size for the case.

- Always wear safety glasses when handling or priming cases.
- Never attempt to seat or reseat a primer in a loaded round.
- Handle primers with care! Never try to force a primer into a case.
- Never smoke when handling primers or powder.
- Never allow children to handle this tool or other reloading equipment.
- Use only new primers in good condition. Never use a primer of unknown type, condition, or age.

Set-Up

We recommend that the Accu-Prime tool be securely fastened to your loading bench with screws through the holes in the base of the tool. Alternatively, it could be clamped to the bench or held securely in a vise. If clamping it to a bench or holding it in a vise, we recommend that the tool be screwed to a scrap piece of wood first.

Select the correct shellholder for the cartridge you are reloading and slide it into the slot at the top of the tool.



Next select the proper size primer punch, large or small, for the cartridge being reloaded. With the cup and spring end up, drop the primer punch through the center hole in the shellholder.

You are now ready to prime cases.

Priming Cases

Move the tool handle away from you until it stops.

Place a primer into the primer cup with the open end facing up. The use of a primer tray will help in orienting the primers correctly before they are placed in the tool.

Place an unprimed case into the shellholder and then pull the handle towards you until it stops. Use firm pressure but be sure to stop when you feel the handle travel end. Remember, with our patented design, the travel is stopped by the primer cup for consistent primer depth. Note that primers will require additional pressure to seat them fully as the anvil reaches the bottom of the primer pocket and is pressed slightly into the primer cup. This is normal and is required for proper primer seating. Our tool is sensitive enough so that this additional resistance is felt as the handle reaches its stop point.

Warning! Stop immediately if any unusual force is felt during priming and determine the cause before continuing.

Move the handle back to its forward position and remove the primed case.
Check the primer depth with calipers or dial indicator. Primers normally should be seated between .003" and .005" below the surface of the case.

Left Hand Operation

Please note that the Accu-Prime can be set-up for left hand operation. To do so, the unit should be mounted to the bench so the handle is positioned on the left hand side. The shellholder will then need to be installed from the rear of the unit, but it can be turned so the opening is facing you. The operation of the unit will be opposite however of right hand use, meaning that the handle will be pulled towards you to lower the punch, and pushed away from you to raise it and seat a primer.

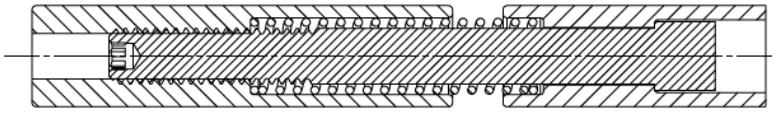


Adjusting the Primer Punch

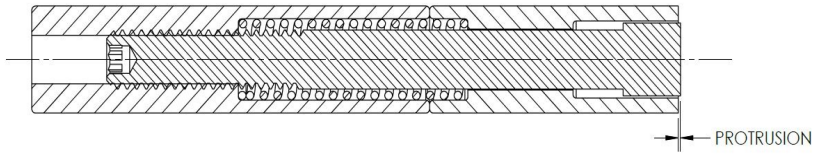
The punches are factory set to approximately the spec above, however if you find that you need to make an adjustment, it is easy to do. Lift the primer punch out of the Accu-Prime tool and hold it with the bottom end up. Then using the supplied 1/16" hex key wrench, turn the screw clockwise to increase the depth of the primer or counterclockwise to decrease the primer depth.

One complete revolution of the screw will change the setting of the primer punch by .025", so 1/10th turn will change the setting .0025". Please note that the adjustment screws are coated with a vibration resistant compound to prevent movement. Do not remove this coating.

Note, when adjusting the punch, the protrusion above the cup (when the cup is de-pressed) will be slightly greater than the actual seated primer depth by .001" to .002". The punch protrusion can be measured with calipers if desired when making changes.



Cut-away view of priming punch in the raised position.



Cut-away view of the priming punch in the seated position.
Note how the amount of protrusion is adjustable.
The punch should seat primers .003" to .005" below the case head.

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Accu-Prime™

Instruction Manual

SAVE THESE INSTRUCTIONS

At Lyman, customer satisfaction and quality are our top priorities.
If you are experiencing any problem with this product, DO NOT RETURN IT TO YOUR RETAILER. Please, let us help. If the item has a missing part, is damaged, or if you need help with the instructions,
Call us toll-free at **1-800-225-9626** Monday - Friday 8:00am-4:00pm (EST)
or go to our website at **www.lymanproducts.com**
and click on the Quick Link at the bottom right that says "Contact Us".