

Lyman Accu-Prime Auto Load Instructions

Congratulations on purchasing Lyman's Accu-Prime Auto Load tool, one of the fastest and 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. Additionally, the Accu-Prime Auto-Load uses a linear rail system for an extremely smooth primer feed operation.

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 reseal 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 Auto-Load 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 by attaching it to a scrap piece of wood. The handle should be positioned on the right-hand side of the tool.

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.

Filling Primer Tubes

Select the proper size tube for the primer being loaded. There are indicator marks on the tube's pickup end to designate primer size. One line for small primers and two lines for large primers. Install the supplied cotter pin through the hole in the side of the tube. Use a primer tray to position all primers anvil side down, then press the pickup end of the tube down over each primer to load them into the tube.



Tubes will hold up to 100 primers. Turn the tube over and slide the bare end into the primer feed mechanism. Remove the cotter pin to allow the primers to drop down against the stop plunger. Install the primer follower by gently sliding it down inside the primer tube until it rests on the primers.

You are now ready to prime cases.

Priming cases

Move the tool handle towards you until it reaches its stop. This will raise the priming punch and move the primer feed mechanism forward to drop a primer into the primer cup.

Move the handle back to its rear position, which will lower the priming punch.

Insert a case into the shellholder and 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 rear 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.

Continue priming cases in this manner until through.

Changing primer Size

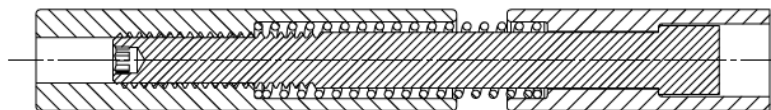
To change primer size, the priming punch and the primer tube will need to be swapped. To remove the priming punch, pull the handle forward until you can grip the punch with your fingers and lift it out. Replace it with the correct size punch.



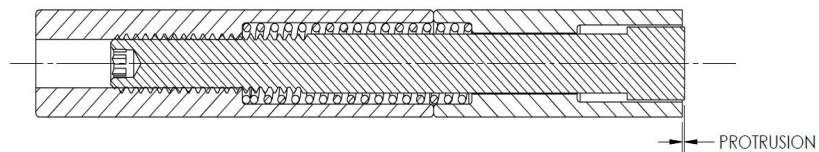
Adjusting the Primer Punch

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 Auto-Load 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 depressed) 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.

(See diagrams on the next page.)



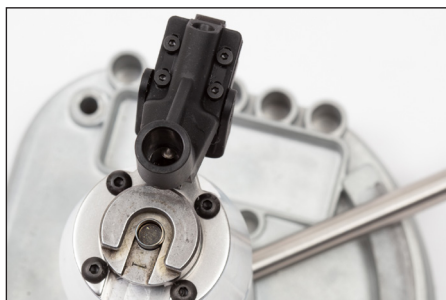
Cut-away view of priming punch in the raised position.



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.

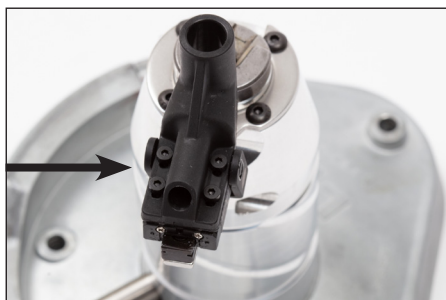
Adjusting the Lever Stop

The Accu-Prime Auto-Load lever stop is factory set and normally DOES NOT need to be adjusted. However, if adjustment is ever needed, the stop should be set so that lever stops when the primer feeder plunger is fully compressed by the priming punch, but no more. This can be determined by looking down into the primer feed body with the tube not in place, and watching as the plunger is compressed by the priming punch.



Adjusting the Primer Feed Mechanism

The Accu-Prime Auto-Load primer feed mechanism is factory set and normally DOES NOT need to be adjusted. However, if adjustment is ever needed, the four small hex screws on the top of the priming feed mechanism can be loosened and the primer feed body can be slid forward or back. Its position should be set when the lever is fully forward against its stop and the primer punch is fully raised. The primer feed body is moved against the primer feed plunger until it is fully compressed by the priming punch, but no more. This can be determined by looking down into the primer feed body with the tube not in place, and watching as the plunger is compressed by the priming punch. Tighten the four screws when in this position.



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Accu-Prime
Auto Load

Instruction Manual

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