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# Lyman Products Corp.

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Middletown, CT 06457

# Lyman® Ultimate Case Prep Kit



### Kit Contains:

- |   |  |
|---|--|
| 1. E-ZEE Case Gauge                                 | 8. Large Primer Pocket Reamer                                  |
| 2. Magnum Inertia Bullet Puller<br>with two collets | 9. Small Primer Pocket Uniformer                               |
| 3. Extra Large Deburr Tool                          | 10. Large Primer Pocket Uniformer                              |
| 4. Outside Chamfer Tool                             | 11. Small Primer Pocket Cleaner                                |
| 5. Flash Hole Uniformer                             | 12. Large Primer Pocket Cleaner                                |
| 6. VLD Chamfer Tool                                 | 13. Nylon Case Neck Brushes:<br>25 Cal, 30 Cal, 38 Cal, 45 Cal |
| 7. Small Primer Pocket Reamer                       | 14. Dry Case Neck Lube   |

## Ultimate Case Prep Kit

The Ultimate Case Prep Kit gives the reloader all of their necessary case prep tools in one handy organized storage case. Everything is there to process cases after trimming and to handle prep work for the most accurate reloads possible.

## Magnum Inertia Bullet Puller Instructions

The Magnum Inertia Bullet Puller is designed to use two different size collets which will accept almost all cartridges. See the chart below to select the proper collet for your cartridge. If a particular cartridge is not listed, use the collet that best fits its diameter without being loose.

### Small Collet Fits Calibers:

17 Rem.	7.62 x 39	380 Auto
204 Ruger	32-20	9mm Luger
222 Rem.	5.7 x 28	38 Auto
223 Rem.	25 ACP	38 Spec.
25-20 Win.	32 ACP	357 Mag
6.8mm Rem.	32 S&W L	40 S&W
30 Carbine	32 H&R	10mm Auto

### Large Collet Fits Calibers:

22-250 Rem.	30-30	375 H&H Mag
220 Swift	300 Sav.	416 Rigby
243 Win.	308 Win.	444 Marlin
250 Sav.	30-06	450 Marlin
257 Roberts	300 WSM	45-70
25-06 Rem.	300 Ultra Mag	50-70
6.5 x 55	300 Win Mag.	41 Rem. Mag
260 Rem.	8mm Mau.	44-40 Win.
270 Win.	325 WSM	44 Rem. Mag
270 WSM	338 Federal	45 ACP
7mm-08	338 Win. Mag	45 Colt
7mm Mau.	338 Lapua	454 Casull
280 Rem.	35 Rem.	460 S&W
7mm Rem. Mag	38-55 Win.	480 Ruger
7mm WSM	375 Ruger	500 S&W

greatly increased, contributing to neck stretching and requiring more effort from the reloader.

The Case Neck Brush allows the reloader to brush clean the case neck interiors and, if he wishes, also apply a clean dry lubricant to further ease passage of the resizing die's expander ball.

## Dry Case Neck Lube

There are many uses for this specialty lube. Dip the case neck of your cartridge into the lube to reduce friction from sizing die expander button. The lube also works great on keys that stick in locks.

1. **CAUTION:** PRIOR TO REMOVING BURRS FROM YOUR CARTRIDGE CASES, BE CERTAIN THAT ALL PRIMERS HAVE BEEN REMOVED FROM THE CASES. A LIVE PRIMER COULD BE DETONATED BY THIS OPERATION. FOR BEST RESULTS, BE SURE THAT CASES HAVE BEEN TRIMMED TO A UNIFORM LENGTH.
2. Loosen the set screw in the cone shaped case adapter and slide the adapter on the shaft away from the cutter end.
3. Insert the uniformer shank into the case mouth and align the cutter so that it protrudes through the flash hole.
4. While holding the case in this position, set your cutting length. Slide the cone shaped adapter into the entrance of the case mouth. Leave a gap of about .010" between case mouth and cone shaped adapter. Tighten the adapter set screw. Your tool is now adjusted to deburr your cases.
5. Turn the tool clockwise until you feel the cutting stop, usually after two or three turns. Some adjustment of the cone shaped adapter may be necessary if cases vary in internal volume.

**CAUTION:** WE RECOMMEND A MODEST DEPTH-OF-CUT AS THE REMOVAL OF EXCESSIVE AMOUNTS OF BRASS WILL ONLY WEAKEN THE CASE. REMOVE ONLY ENOUGH BRASS TO ELIMINATE ANY BURRS AROUND THE FLASH HOLE.

### Case Neck Brushes

The Case Neck brushes are a valuable accessory for the re-loader processing bottle-neck cartridge cases. The tendency for those cases to “flow” and thicken in the neck and shoulder - at the expense of the cartridge base wall thickness - is well known. This shifting - or stretching - is to some degree due to the use of an expander ball (integral with the decapping rod/pin on standard two-die rifle sets) in uncleaned case necks. Friction between the expander ball and case neck is

Once the proper collet has been selected, slide the cartridge into the collet, bullet first. The rounded edge will face the rim. Slide the cartridge in until the collet engages the extractor groove, rim, or belt on the case. Place the cartridge and collet onto the handle and tighten down the end cap.

Rap the bullet puller against a hard, solid surface, with the cap end up. For easiest extraction, try to keep the handle and shaft parallel to the surface being struck. Lighter weight bullets will take more raps to pull the bullet than heavier ones.

Caution: Always wear safety glasses when using this tool. Never use it with rimfire ammunition.

Once the bullet is removed, unscrew the end cap and remove the case and collet. The powder and bullet can then be poured out of the handle.

### E-ZEE™ Case Gauge

Measure the case length of over 70 popular rifle and pistol cases. This rugged metal gauge makes sorting cases quick, easy and accurate. The gauge is machined to maximum case length. Simply insert a case into the proper location on the gauge. If it does not fit, the case needs to be trimmed.

### Extra Large Deburr Tool

Handles inside and outside deburring of cartridge cases from .17 to .60 caliber. Ideal for black powder cartridge shooters. A must for 50 BMG reloading. The 30 degree angle cutter bevels the inside of the mouth of the case, allowing the bullets to slide in without deforming.

### Case Prep Tools

#### Small & Large Primer Pocket Cleaners

Quickly removes fouling out of primer pocket bottoms. Insert tool into pocket and twist gently until fouling is removed.

### Small & Large Primer Pocket Reamers

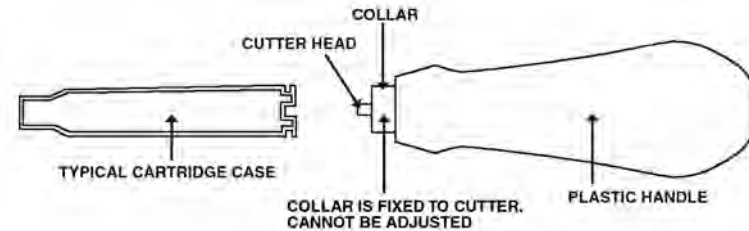
Removes military crimps and rough metal edges from primer pockets. The tool requires only a few turns to work properly. Be sure to hold unit square and in-line with the case. Holding unit at an angle in the primer pocket could enlarge the pocket and cause gas leakage.

### Small & Large Primer Pocket Uniformers

The Lyman Primer Pocket Uniformer Tool is designed to cut primer pockets to a uniform depth that can produce more consistent ignition and lead to greater accuracy. The Primer Pocket Uniformer cuts to a uniform depth and at the same time squares the seating surface for the anvil of the primer. Primers are constructed so that the anvil protrudes slightly from the open end of the primer cup. This is necessary so that the anvil will rest firmly on the bottom of the primer pocket. When the firing pin strikes the primer, the impact sensitive compound inside the primer is crushed between the anvil and cup causing the compound to ignite. Variations in the depth or configuration of the primer pocket, or in the primer seating operation itself, can alter the effects of the firing pin blow. This, in turn, effects the ignition of the primer and may affect the accuracy of the cartridge.

The Uniformer Tool is factory set to S.A.A.M.I. specifications and is fixed in place. **NO ADJUSTMENTS ARE NEEDED OR SHOULD BE ATTEMPTED!**

To use the Primer Pocket Uniforming Tool, insert the cutter into the primer pocket of an empty, deprimed case. Be sure to hold the case straight in line with the Uniforming Tool. Turn the cutter clockwise in the primer pocket while applying pressure. Continue to turn the cutter and remove material until the head of the case makes contact squarely against the stop collar on the Uniformer Tool. Remove the cutter from the case and check the pocket for brass shavings. Remove any shavings that are found. If no material is removed, the pocket is already at the correct depth. Military cases have crimped-in primers. Lyman's Primer Pocket Reamer should be used first to remove the crimp and then the Uniformer Tool can be used as described above.



### WARNING:

1. Large Rifle and Large Pistol Primers have different pocket depths.  
Do not use the Large Rifle Uniformer in pistol cases.
2. Holding the Uniforming Tool at an angle in the primer pocket could enlarge the pocket and cause gas leakage.  
Keep tool square and in-line with the case.

### Outside Chamfer Deburr Tool

This tool removes excess brass from trimmed cases. The tool easily deburrs the outside case mouth to leave a smooth even finish. This tool only requires a few twists to properly function. Do not over cut brass as this will lead to thin weak necks. Works on cartridges from 17 cal. - 45 cal.

### VLD Chamfer Reamer

This tool eliminates damage caused by sharp edges on the case neck. It cuts a gentle 22 degree chamfer on the case mouth allowing bullets to easily enter the cartridge. This tool only requires a few twists to properly function. Do not over cut brass as this will lead to thin weak necks. Works on cartridges from 17 cal. - 45 cal.

### Flash Hole Uniformer

During case manufacture, burrs are often raised around the primer flash hole from punching operations and primer flash hole uniformity can be affected.

Your Lyman Flash Hole Uniformer will remove these burrs and standardize the length of the flash hole, allowing a more uniform flash to ignite the powder charge thus improving accuracy. The cone adapter is adjustable to fit various length rifle and pistol cases from .22 to .45 caliber.