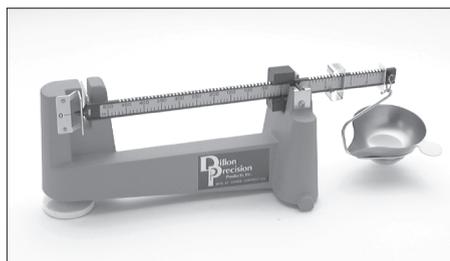
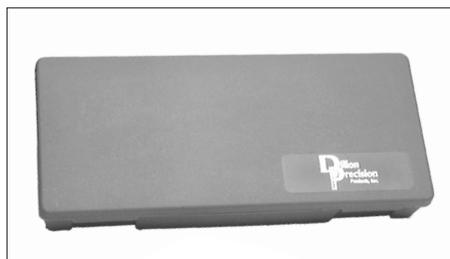


Instruction Manual, May 2007

Case Preparation Tools & Reloading Accessories



Case Preparation & Accessory Instruction Manual

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WARRANTY INFORMATION

All electrical/electronic components in Dillon equipment are covered by a one year warranty.

LEAD WARNING

Discharging firearms in poorly ventilated areas, cleaning firearms, reloading ammunition, handling ammunition or ammunition components may result in exposure to lead, a substance known to cause birth defects, reproductive harm, cancer and other serious injury.

Have adequate ventilation at all times. Be sure to wash your hands thoroughly after exposure.

Dillon Large & Small Case/Media Separator



Dillon's small and large case/media separators.

Large Separator, #20675

Small Separator, #21045

TO ASSEMBLE: Open the blue separator basket by pulling the spring loaded latch(es).

Using the 1-1/4" bolts, fasten the crank handle across the bottom half of the basket (the half without the latches). Be certain the crank handle is in the down position. (See above photo.) It may be necessary to spread the basket slightly to line up the handle bolt holes.

SPECIAL NOTE FOR THE LARGE SEPARATOR ONLY: Using the 5/8" bolts, hang the two steel brackets on the inside of the tub. Be sure the two curved fingers on the bracket wrap over the edge of the tub. Washers and nuts must be assembled on the outside of the tub. Place the basket/handle assembly across the brackets.

TO OPERATE: Be certain the roll pin (on the end of the crank handle) is positioned in the bracket to keep the basket from turning. Then open the basket.

Pour cases and media directly from the case cleaner into the open basket. Close the basket and secure the latch(es). Move the roll pin out of the bracket so the basket has free motion. Rotate the basket by turning the crank handle several times. The media is collected in the tub for future use and the basket is now full of clean cases. We suggest transferring the media to a sealed container to keep it dry for the next cleaning session.

1 For expert assistance or to place an order, call (800) 223-4570

Dillon Case Lube,



Dillon Case Lubricant and Rapid Polish 290.

Case Lube - 8 oz	#13733
Case Lube - case 20 bottles	#20256
Rapid Polish 290 - 8 oz	#13804
Rapid Polish 290 - case 20 bottles	#20255
10 Bottles of Each	#21375
Walnut Media - 15 lb. bag	#13287
Corn Cob Media - 10 lb. bag	#13496
1 Bag each Corn & Walnut Media	#21553

Dillon Case Lube: Lay your cases out in a single layer and spray lightly with one or two passes. After 10 minutes the lubricant distributes itself around the cases and you're ready to load.

Dillon Rapid Polish 290: Add 2-3 capfuls to the media in your tumbler and run. Rapid Polish 290 has a residual value and stays in your tumbling media. You'll use less each time you clean your cases. Rapid Polish 290 contains no ammonia, so it won't weaken brass cases!

DON'T FORGET MEDIA!

Crushed walnut hull polishing media – recommended for extremely dirty or tarnished cases. Leaves a clean, matte finish.

Ground corn cob polishing media – recommended for all around cleaning. Leaves a shiny, smooth finish.

For expert assistance or to place an order, call (800) 223-4570

Dillon Rapid Trim 1200B Case Trimmer

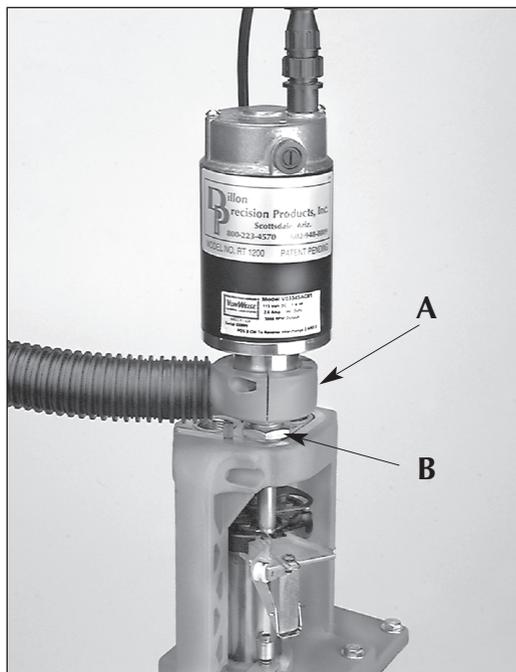
TO OPERATE: You will need a case gage to set the size/trim die properly. (See page 10)

For best results you need to clean and lube your brass before sizing and trimming.

Install the size/trim die (without the trim motor) into the toolhead on your reloading machine. Screw it down until it touches the shellplate and then back it out 1/2 turn. The size/trim die is adjustable. That means that if you screw the die down all the way, without checking the shoulder length first, you may push the case shoulder back further than is desirable.

Size a case and check it for shoulder length in a case gage. Always wipe the case clean of lube before inserting it into the case gage. Lube will cause grit and dust to cling to the inner surface and cause the gage to give false readings. The base of the sized case should fall between the high and low steps on the base of the case gage (see page 10 for further information on reading a case gage). If it does not, reset your die and size a different case. Repeat this process until the case falls between the high and low steps on the **base** of the case gage. Once the correct case length is achieved, tighten the size/trim die lock nut.

You should always have a case in the size/trim die before beginning trim adjustments. You need to do this to avoid screwing the motor assembly down too far causing the carbide cutter to contact the bottom of the port window of the size/trim die. This will cause the carbide cutter to shatter, possibly causing injury or damage to the unit. So with a case in the die, thread the trim motor onto the size/trim die until the cutter makes contact with the case mouth. Then lower the platform and turn the cutter motor down another 1/4 turn. Lock motor jam nut.



Case trimmer with vacuum attachment (A) and size/trim die (B) installed.

Case Trimmer, #22080

Size/trim dies sold separately. (see page 4)

Continued...

3 For expert assistance or to place an order, call (800) 223-4570

Dillon Rapid Trim 1200B Case Trimmer

Connect the power cords and turn the motor on.

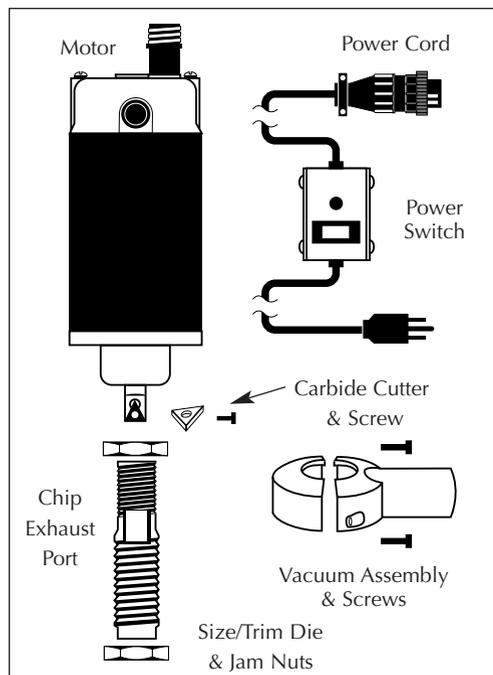
Trim a case and check it for overall length in a case gage. To check for overall length, set the case firmly into the case gage and set the gage on a clean, flat surface. The case mouth should be between the high and low step of the case gage (see page 10 for further information on reading a case gage).

Adjust the motor up or down and repeat these steps until the right overall length is achieved. Once the right length is reached, lock the motor jam nut. Before turning the unit on, **always** retighten the motor jam nut.

NOTE: The vacuum assembly clamps around the lower bell of the trimmer motor assembly. It should surround the chip exhaust port on the trim die. The vacuum attachment may need to be modified to fit your vacuum cleaner model.

Size/Trim Die	Part #
.222 Rem	#21363
.223 Rem	#20107
.220 Swift	#21364
.22-250	#20110
.243 Win	#20109
.25-06	#21367
.257 Roberts	#21498
6.5x55	#21495
.264 Win Mag	#21499
.270 Win	#20112
7mm Rem Mag	#21366
.30-30	#20111
.308	#20106
.30-06	#20108
.300 Win Mag	#21370
.300 Wby Mag	#21371
.303 British	#21765
8x57	#21502
.338 Win Mag	#21368
*7.62x39	#22024

NOTE Available as complete trimmer only. The 7.62x39 trim motor is not compatible with any other size/trim dies.



Now that your cases have been trimmed to length, you'll need to decap them and expand the case mouth. To do this properly you need to make sure that the sizing die does not contact the shoulder of the case and change the headspacing. To prevent this from happening, thread the size die down until it makes contact with the case and then back it up 1/2 a turn and lock in place.

For expert assistance or to place an order, call (800) 223-4570

Dillon SS-600 Super Swager

Most military brass has a crimped primer pocket and therefore requires swaging. The crimp must be removed prior to repriming and reloading the case.

TO OPERATE: First make sure all of your brass has been deprimed.

Use the proper diameter case locator rod. The unit comes with the .223 rod installed. The larger rods are for .30 cal, .38 and 9 mm. For .45 ACP, use the bushing (not pictured) over the .30 caliber rod.

Use the proper swage rod. The smaller primer swage rod is installed at the factory. (See page 6 for parts identification.)



To change swage rods:

Pry off an "E" clip from either side of the eccentric pin.

Slide the eccentric pin out and remove the handle/swage rod assembly.

Using a pencil or similar object, push out the toggle dowel pin.

Put a light coating of grease over the entire surface of the proper size swage rod and re-assemble. When re-assembling the unit, be sure the eccentric pin is on top of the handle in the eccentric, otherwise you won't be able to make a complete stroke.

Now set a case on the locator rod. Screw the locator rod in or out so that the case goes down without hitting the back-up plate.

Slowly push the handle down and move the case so that the tip of the swage rod enters the primer pocket.

Leave the swage rod in the primer pocket and lock the set screw on the right side of the swager unit. This locks the location of the flat block. The flat block sets the alignment of the primer pocket with the swage rod. Failure to do this will ruin your case and may damage the swager itself.

Adjustment for the proper amount of swage is done by trial and error. Not enough swage and the primers won't seat fully. Too much swage will stress the unit, possibly bending the locator rod.

Continued...

5 For expert assistance or to place an order, call (800) 223-4570

Dillon SS-600 Super Swage

A properly swaged pocket should have a smooth radius (see photograph B). Set the locator rod for minimal swage and swage a case. Examine the edge of the primer pocket to be sure it is smooth, then seat a primer in it. Repeat this process until enough swage is achieved to seat a primer easily.



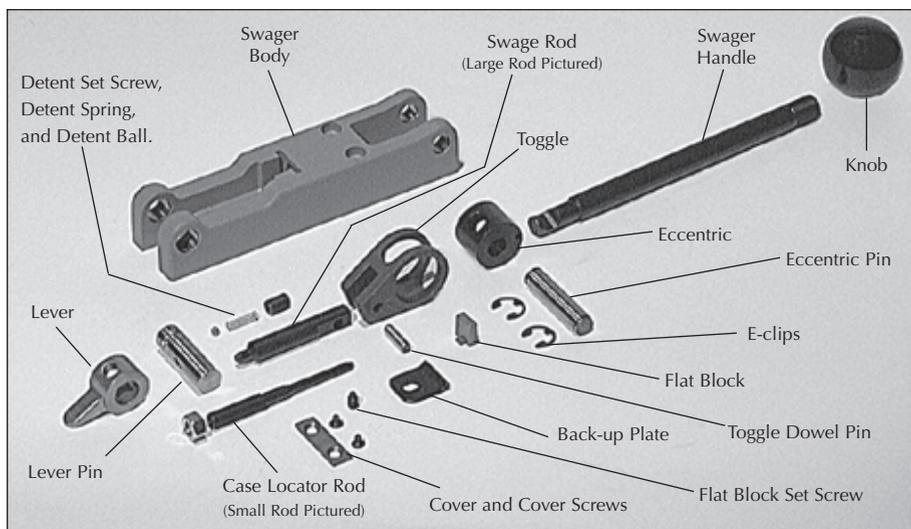
Photo "B": The case on the left shows a properly swaged primer pocket.

NOTE: Re-adjustment of the locator rod may be required when swaging brass from different manufacturers or different lots due to different case webbing.

When changing calibers, the flat block will need to be re-adjusted, .223 has a different case diameter than 9mm, etc. So repeat the steps necessary for proper adjustment.

SPECIAL NOTE FOR 38 SUPER BRASS: Whenever it becomes necessary to swage 38 super brass that has been hot-loaded, be sure to select a case that is **brand new** when making adjustments. These cases have as much primer pocket radius as you would ever want, so adjust your case locator rod with a brand new case and then try some fired/deprimed cases.

IMPORTANT: When mounting the Super Swager to your loading bench, make sure that the handle can extend below the edge of the bench. This is necessary to achieve a complete stroke.



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Dillon Case Gages

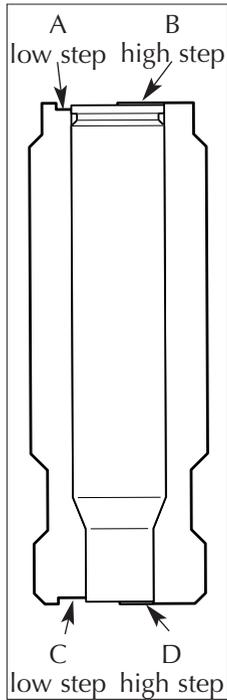


Fig 1

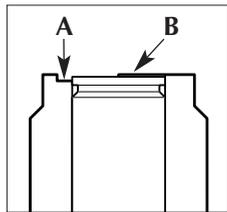


Fig 2

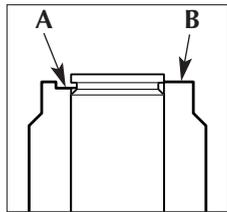


Fig 3

How to use the Case Gage:

The way the case gage works is this: Once you've made a preliminary adjustment to your sizing die drop the sized case all the way into the case gage, **Fig 1**. Look at the base of the case.

If the base of the case is below the high step (see "B" Fig 2) and above the low step (see "A" Fig 2) then the sizing die is properly adjusted. If the base of the case is above the high step **Fig 3**, then you will need to adjust the sizing die down by turning it clockwise.

If the base at the case is below low step **Fig 4**, then the sizing die is adjusted down too far and needs to be backed out by turning it counter-clockwise (Note: this case should be thrown away).

Once the sizing die is properly adjusted, drop the properly sized case back into the case gage and look at the mouth of the case, **Fig 5**. If the case mouth is below the high step (see "C" Fig 5) and above the low step (see "D" Fig 5) then the case is the proper length and will not need to be trimmed. If the case mouth is above the high step **Fig 6**, then the case mouth needs to be trimmed in order to reduce the overall length of the case.

If you find that your cases need to be trimmed, Dillon Precision offers two types of case trimmers.

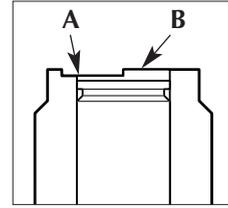


Fig 4

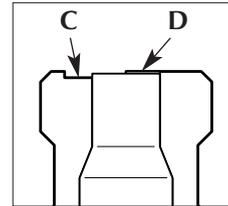


Fig 5

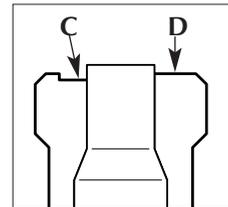


Fig 6

Dillon Case Gages, cont...

NOTE: Before inserting any case into a case gage, make sure it is wiped clean of any lubricant. Otherwise, the lubricant will accumulate inside the case gage and cause it to become coated with grit and dust. This will cause the case gage to give inaccurate readings. Always refer to a reliable loading manual for case dimensions.



RIFLE case gages have “steps” on the top and base. If a case is properly trimmed and the shoulder setting is correct, the case should fall between the high and low steps. These two settings are accomplished at different stages of reloading.

Shoulder setting is done at station one of your loading machine. When a case has a proper shoulder setting it will fall between the high and low steps at the **BASE** of the case gage. If it falls below the low step, you need to raise your sizing die up in 1/8 turn increments until the proper setting is achieved. If the case is above the high step, you need to lower the sizing die.

Overall length, or OAL, is done while trimming fired rifle cases back down to size. Insert a **CLEAN** case into the gage and set it on a clean, flat surface. If the case is trimmed properly, the mouth of the case will be between the high and low steps at the **TOP** of the gage. If the mouth of the case is above the high step, you need to turn your trim motor down in small increments until the proper OAL is reached. If the rim is below the low step, you need to raise the trim motor. Refer to trimmer instructions.

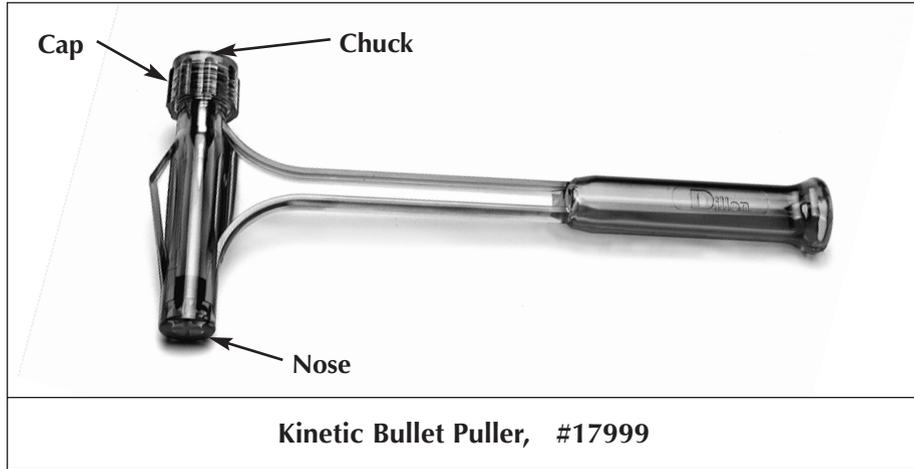
PISTOL case gages do not have the steps mentioned in the rifle gage section. The pistol gage is used to determine overall length and case diameter. Designed to **maximum** SAAMI cartridge length and minimum chamber diameter. OAL is achieved by seating the bullet to the proper depth at station three of your loading machine.

Insert a completed round into the gage and set it on a clean, flat surface. If the bullet extends from the top of the gage, the round is too long. To seat the bullet deeper into the case, adjust your seating die down in 1/8 turn increments until the proper OAL is achieved.

.380 ACP	#15160
9 mm	#15161
.38 Super	#15158
.38 Special	#15159
.357 Mag.	#15163
.40 S&W	#15164
10 mm	#15162
.44 Mag.	#15165
.45 ACP	#15166
.45 Colt	#15167
.223	#13254
.308	#12867
.30-06	#12679

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Kinetic Bullet Puller



IMPORTANT

For use on CENTERFIRE CARTRIDGES only. Not for use with rimfire cartridges or explosive-projectile ammunition.

Before you begin make sure the FLAT side of the metal chuck assembly sits on the flat surface of the puller body and the cap is threaded on. Also note that the rubber strip is crimped to the chuck jaws, it is not a ring.

TO OPERATE: Loosen the cap until the chuck inside of the cap loosens enough to easily insert a round. Insert and rotate the cartridge until the chuck engages the extractor groove or contact is made on a rimmed cartridge. Now tighten the cap.

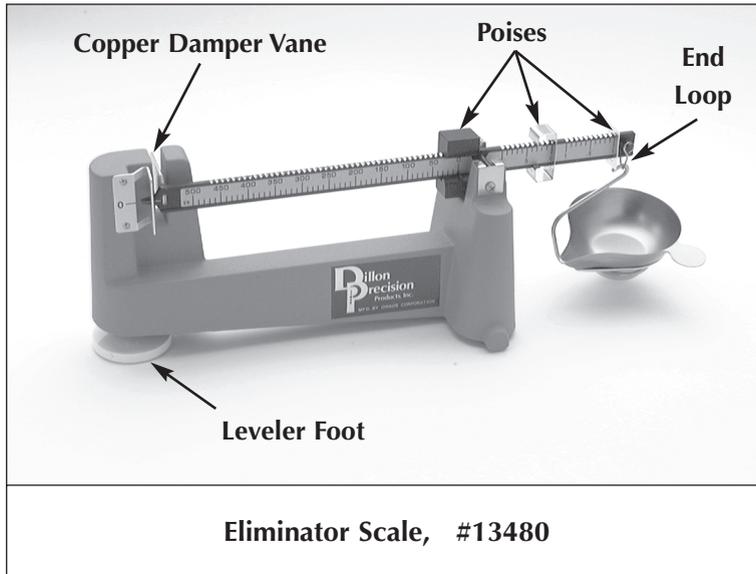
Grip the handle mainly with your thumb and forefinger. Easy extraction results from the handle shaft being PARALLEL to the striking surface AT THE MOMENT OF IMPACT. This also protects the plastic head from breaking. Rap the nose of the bullet puller against a hard, solid surface. If more than one rap is necessary to extract the bullet, retighten the cap after each rap.

Remove the cap to retrieve the components.

NOTE: To protect the lead tips on soft-point bullets you may want to place a foam ear plug into the nose of the bullet puller prior to using the bullet puller.

9 For expert assistance or to place an order, call (800) 223-4570

Dillon Eliminator Scale



TO OPERATE: Be sure that the gold-colored powder pan is set on top of the silver-colored pan support before zeroing the scale.

The scale has three poises: 0 - 500 grains in 10 grain increments; 0 - 10 grains in 1 grain increments; 0 - 1 grain in .1 grain increments. Be sure that the poises are all set at zero before leveling the beam with the white plastic leveler foot.

Make sure that the end loop on the balance beam has not been bent or twisted. This is the loop that the powder pan hangs from. The loop must move freely.

Inspect the copper damper vane to make sure it is not bent. It should be centered in the notch.

Do not use any lubricant on any part of the scale. Keep all surfaces clean and free of corrosion.

Dillon Akro Bins and Utility Boxes



Akro Bins

Square Deal Cartridge Bin #13756	RL1050 Cartridge Bin	#13484
10 Pack Blue Bins #20913	6 Pack Blue Bins	#20915
24 Pack Blue Bins #20914	12 Pack Blue Bins	#20916
48 Pack Blue Bins #20952	24 Pack Blue Bins	#20954
RL550/XL650 Cartridge Bin #13839	SL900 Cartridge Bin	#17125
10 Pack Blue Bins #20917	6 Pack Blue Bins	#97042
24 Pack Blue Bins #20918	12 Pack Blue Bins	#97043
48 Pack Blue Bins #20953	24 Pack Blue Bins	#20954



Dillon Utility Boxes

These boxes can be used for any household purpose. They can hold anything from fishing tackle to a Square Deal B conversion.

Large Utility Box	#17195
Five Large Boxes	#97067
Small Utility Box	#13636
Five Small Boxes	#20925
Ten Small Boxes	#20926

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Dillon Ammunition Boxes



Pistol Ammunition Boxes

	One Box
9mm (50 rd)	#13784
9mm (100 rd)	#13645
.38/357 (50 rd)	#13476
.38/357 (100 rd)	#13766
.44 (50 rd)	#13568
.44 (100 rd)	#13680
.45 ACP (50 rd)	#13715
.45 ACP (100 rd)	#13574

Note: “.38” series boxes fit .38 Super, .38 Special & .357. “.9” series boxes fit .30 Luger, 9x21 and .380. “.44” series boxes fit .41 Mag, .44-40 and .45 LC. “.45” series boxes fit 10mm and .40 S&W.

Rifle Ammunition Boxes

	One Box
Small Rifle (50 rd)	#13740
Med. Rifle (20 rd)	#13625
Med. Rifle (50 rd)	#13665
Lg. Rifle (20 rd)	#13647
Lg. Rifle (50 rd)	#13231
X Lg. Rifle (20 rd)	#13081

Note: “Small rifle” boxes fit from .222 to 7.62x39 length. 20 round “medium rifle” boxes fit from .22-250 to .30-06 length. 50 round “medium rifle” boxes fit from .22-250 to .308 length. “Large rifle” boxes fit from .30-06 to all belted cartridges. “Extra large rifle” boxes fit cartridges from .45-70 Government to 600 Nitro Express.

Extra data labels for Ammo Boxes available in packages of 100, #22039

For expert assistance or to place an order, call (800) 223-4570 12



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For technical assistance or orders:
(800) 223-4570

To place an order by stock numbers
or to quickly check the status of an order only.

No technical questions please:
(800) 762-3845

To order *The Blue Press* catalog:
(800) 762-3844

NOTE: Before sending any item in for repair you must contact us for a **Return Merchandise Authorization**, or **RMA** number. This number will help expedite service.

Accessory Manual, May 2007

