



Pacific 105

SHOTSHELL RELOADING INSTRUCTIONS

To help you load completely satisfactory ammunition the first time you operate your Pacific 105, this instruction folder contains step-by-step procedures and a list of "Recommended Loads." Consult our brochure, "The Facts and the Fun," for more information (included with your loader). However, this folder is not intended to take the place of a complete loading manual, and it is recommended that you obtain a recently published, reliable guide for loading modern shotshell ammunition.

In addition to empty shell cases, you'll need to obtain powder, shot, wads and primers. Before purchasing these components, note the combination of shot and powder you'll be loading from the identification numbers stamped into the shot and powder bushings. Then you can consult the "Recommended Loads" chart in this folder to select components.

For instance,

IF YOUR 105 HAS: ■ 12 gauge 2¾" dies,
■ a 1½ oz. shot bushing,
■ and a #444 powder bushing;

YOU CAN USE

THESE COMPONENTS: ■ Remington/Peters RXP, Win AA or Champion II shell cases,
■ Hercules Red Dot powder (abbreviated "RD")
■ shot of size specified on the bushing,
■ Pacific Red Versalite wads (or any other "LTSP" wad),
■ and #209 primers correct for your shell case and load (ask your dealer).

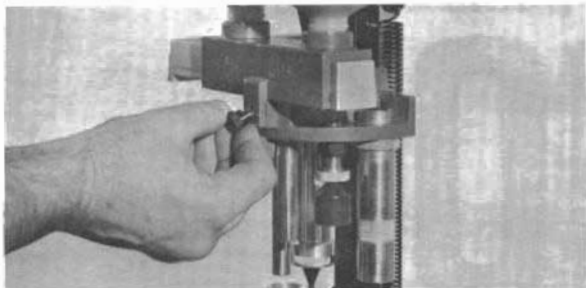
You should always follow loading tables exactly, as they have been carefully developed to deliver maximum performance and safety. Resist the temptation to add a little more shot or a little more powder to "soup up" the load. Not only can pressures rise to dangerous levels upon firing, but the load's ballistics may be upset, resulting in "blown" patterns.

Shotshell loading is a completely safe hobby if common sense prevails. Modern smokeless powder is NOT explosive, but it is highly combustible, so appropriate precautions should be taken. Never mix powders, and never use unidentified powders. Keep new primers in their factory trays until you can use them, and keep your loading area neat.

As an additional safety measure, always wear safety glasses while loading.

SETTING UP YOUR 105

1. Mount the 105 on a sturdy bench at a comfortable working distance, allowing plenty of room on both sides of the reloader for components you will be loading and for finished shells. Connect the return spring between the operating lever and the base casting. Do not fill powder and shot hoppers at this time.



2. Remove bolt at base of measure casting and lift off entire assembly.



3. Place measure casting assembly upside-down and slide charge bar from casting. Insert powder and shot bushings into appropriate recesses in charge bar.



4. Replace charge bar in measure casting, with charge bar to full-left position so that shot bushing is in center. (The rib on the back side of the charge bar must fit into the matching groove in the measure casting. This prevents accidentally reversing the charge bar.) Now you may fill the hopper bottles with powder and shot, making certain that powder is in left hopper and shot is in right hopper.



5. Replace entire assembly onto the 105, being sure that charge bar remains in full-left position, and secure with measure casting bolt. Caution: If charge bar is reversed, tightening bolt may break the casting.

LOADING THE FIRST SHELL

Sort empty cases as to brand and type. Inspect cases and discard those with cracks, loose base wads, or any other defect. You will find it is best to load only one brand and type shell at a time, so that you may use the same combination of components and loader adjustments without interruption.

The 105 has been factory adjusted, but some slight adjustment may be made necessary by variations in the components you are using.

STATION 1 *Resize and deprime.*



1. Insert empty shell case into die.



2. Lower operating handle to full stop. This resizes and de-primers the case. Raise handle fully and shell will be ejected from die.

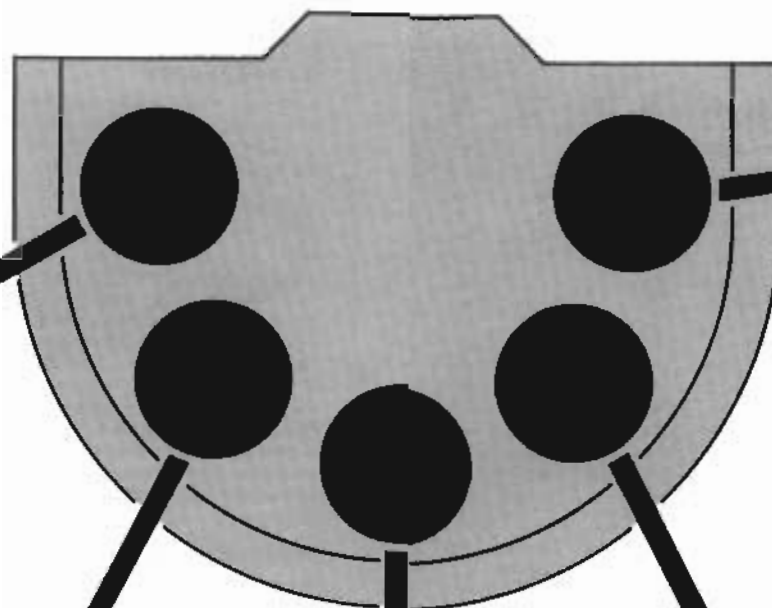
STATION 2 *Prime.*



1. Place primer base down in hole of primer seating pad. Fit shell over primer seating punch, and



2. Lower operating lever to full "down" position. This seats new primer. (primer seating punch may be adjusted by loosening the lock nut and turning the punch to raise or lower it.)



STATION 3

Powder drop, wad seating & shot drop.



1. Place shell under wad guide and lower operating lever. While holding lever down, move charge bar fully to right. This drops measured amount of powder into shell case.



2. If you are using one-piece shot protector wads (such as Versalite) fit wad over powder/shot drop tube before lowering handle. If using fiber wads, place directly in wad guide. (Wad guide spring fingers may become damaged with extended use. To replace, break out damaged spring finger and snap in new unit from bottom of wad guide.)



3. To seat wad, lower operating lever to full stop. Read wad pressure indicator while operating lever is fully lowered. Wad pressure is not critical for one-piece shot protector wads (10-50 lbs. recommended) and may be varied for best crimp. (If adjustment is necessary, powder/shot drop tube may be turned in threads to raise or lower.)



4. Raise handle slightly and move charge bar fully to left. This drops measured amount of shot into shell case. (Note: There should be about 1/2"-9/16" between the shot and the mouth of the case for proper crimping. If measurement is otherwise, you may be using the wrong combination of components.)

STATION 5

Finish crimp and taper.



1. Slide shell under shell holder plate at station 5.



2. Lower handle to full stop. This completes the crimp, while resizing and tapering the shell to proper dimensions. (Adjustment may be made by loosening the die body lock nut and threading the entire die up or down to change the degree of taper. Crimp depth can be adjusted by loosening the lock nut on the crimp plunger and threading the crimp plunger up or down.)



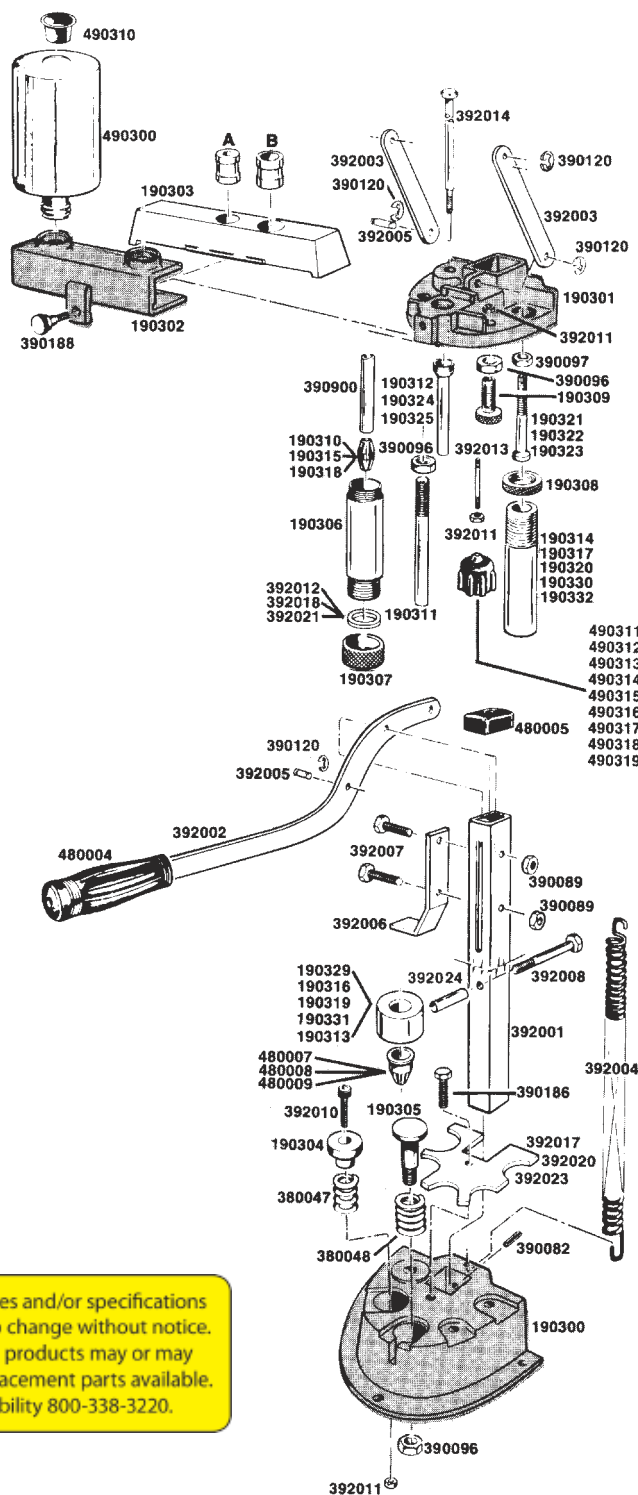
3. The finished shell.

STATION 4 *Crimp starting.*



Place shell on station 4 and lower operating lever to full stop. This starts the crimp. (Adjustment of this die is critical in determining quality of the crimp. If the crimp starter is not adjusted low enough, there will be a hole in the center of the crimp after final crimping. If the die is too low, collapsed shell cases can result. Only a small amount of adjustment is needed to alter the crimp.)





105 PARTS LIST

- A** ...Powder Bushing
- B** ...Shot Bushing
- 190300...Base Casting
- 190301...Die Head Casting
- 190302...Measure Casting
- 190303...Charge Bar
- 190304...Primer Seating Pad
- 190305...Wad Pressure Base
- 190306...Size Die Body
- 190307...Size Die Body Cap
- 190308...Crimp Die Lock Ring
- 190309...Crimp Starter Bush, Aluminum
- 190310...Decap Rod Guide 12 Ga.
- 190311...Primer Seating Punch
- 190312...Drop Tube 12 Ga.
- 190313...Wad Guide Body 12 Ga.
- 190314...Crimp Die Body 12 Ga.
- 190315...Decap Rod Guide 16 Ga.
- 190316...Wad Guide Body 16 Ga.
- 190317...Crimp Die Body 16 Ga.
- 190318...Decap Rod Guide 20 Ga.
- 190319...Wad Guide Body 20 Ga.
- 190320...Crimp Die Body 20 Ga.
- 190321...Crimp Plunger 12 Ga.
- 190322...Crimp Plunger 16 Ga.
- 190323...Crimp Plunger 20 Ga.
- 190324...Drop Tube 16 Ga.
- 190325...Drop Tube 20 Ga.
- 190329...Wad Guide Body 12 Ga. 3"
- 190330...Crimp Die Body 12 Ga. 3"
- 190331...Wad Guide Body 20 Ga. 3"
- 190332...Crimp Die Body 20 Ga. 3"
- 490311...Primer Seater Spring
- 380047...Wad Pressure Spring
- 390082...Guide Post Roll Pin
- 390089...Eject Bracket Nut 1/4x20
- 390096...Primer Seater Nut 1/2x20
- 390097...Crimp Plunger Lock Nut
- 390120...E Clip
- 390188...Measure Casting Bolt
- 390900...Eject Bolt Stop Sleeve
- 392001...Main Guide Post
- 392002...Operating Lever
- 392003...Die Head Links
- 392004...Return Spring
- 392005...Link Cross Pin
- 392006...Eject Bracket
- 392007...Eject Bracket Bolt (2)
- 392008...Wad Guide Bracket Bolt
- 390186...Shell Holder Plate Bolt
- 392010...Primer Seater Bolt
- 392011...Primer Seater Bolt Nut 10x32
- 392012...Size Die Ring 12 Ga.
- 392013...Crimp Starter Rod
- 392014...Deprime-Eject Rod
- 392017...Shell Holder Plate 12 Ga.
- 392018...Size Die Ring 16 Ga.
- 392020...Shell Holder Plate 16 Ga.
- 392021...Size Die Ring 20 Ga.
- 392023...Shell Holder Plate 20 Ga.
- 392024...Wad Guide Spacer Tube
- 480004...Lever Grip
- 480005...Guide Post Cap
- 480007...Spring Fingers 12 Ga.
- 480008...Spring Fingers 16 Ga.
- 480009...Spring Fingers 20 Ga.
- 490300...Measure Bottle
- 490310...Hopper Cap
- 490311...Crimp Starter 12 Ga. 8 Pt.
- 490312...Crimp Starter 12 Ga. 6 Pt.
- 490313...Crimp Starter 12 Ga. Paper
- 490314...Crimp Starter 16 Ga. 8 Pt.
- 490315...Crimp Starter 16 Ga. 6 Pt.
- 490316...Crimp Starter 16 Ga. Paper
- 490317...Crimp Starter 20 Ga. 8 Pt.
- 490318...Crimp Starter 20 Ga. 6 Pt.
- 490319...Crimp Starter 20 Ga. Paper

NOTICE: Prices and/or specifications are subject to change without notice. Discontinued products may or may not have replacement parts available. Call for availability 800-338-3220.

BUSHINGS FOR HALF-GRAIN CHARGES:

Example: To find the bushing for 19½ grains of Winchester 452AA powder, note that bushing #402 gives a charge of 19 grains and that bushing #414 gives 20 grains. Split the difference between 402 and 414, and the result is 408. Thus, the correct bushing for 19½ grains of 452AA is bushing #408.

All charges listed on this chart are an average of several loads, weighed following the complete reloading cycle. Powders used in establishing these loads were from ballistic samples supplied by the manufacturer or sealed tins of recent manufacture. Charges may vary slightly due to operator's technique and/or moisture content of the powder.

- No bushing made for this grain weight.
NR No load of this grain weight recommended by powder manufacturer.

1/2 OZ.	7/8 OZ.	1 1/4 OZ.	1 5/8 OZ.
5/8 OZ.	1 OZ.	1 3/8 OZ.	1 3/4 OZ.
3/4 OZ.	1 1/8 OZ.	1 1/2 OZ.	1 7/8 OZ.



GRAINS	POWDERS ¹			HERCULES ²																					
	Alcon AL-5	Alcon AL-7	Alcon AL-8	Alcon AL-120	Dugout PB	Dugout 190X	Dugout 327	Dugout 4756	Dugout 1825	Hercules Red Dot	Hercules Green Dot	Hercules Hero	Hercules 2400	Hercules Unique	Hercules Blue Dot	Herdg. 110	Herdg. H55	Herdg. H56	Win. 433AA	Win. 473AA	Win. 371	Win. 540	Win. 206	Norma 2010	Norma 2020
10	NR	NR	NR	NR	NR	315	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11	NR	NR	NR	NR	NR	330	NR	NR	NR	NR	NR	NR	256	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12	NR	NR	NR	NR	NR	345	NR	NR	NR	363	NR	NR	266	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
13	NR	NR	NR	NR	339	360	NR	NR	NR	381	369	NR	—	NR	NR	256	NR	NR	NR	NR	NR	NR	250	NR	NR
14	NR	NR	NR	NR	354	375	NR	NR	NR	390	381	NR	291	345	NR	266	NR	NR	NR	NR	NR	NR	259	NR	NR
15	NR	NR	NR	NR	369	390	300	NR	NR	402	393	NR	297	360	NR	—	NR	NR	NR	NR	NR	NR	—	NR	NR
16	NR	NR	NR	NR	378	405	312	NR	360	414	405	NR	303	369	NR	—	NR	297	NR	NR	NR	NR	—	408	NR
17	NR	NR	NR	408	387	417	318	NR	369	429	414	390	315	381	NR	291	NR	309	393	351	NR	—	NR	417	NR
18	375	366	NR	420	399	426	327	384	378	444	429	399	324	390	NR	300	NR	315	396	363	NR	303	NR	429	NR
19	381	375	NR	432	411	435	336	396	387	459	441	414	333	402	NR	309	NR	324	402	372	312	NR	NR	438	NR
20	390	381	NR	441	420	450	345	408	396	471	450	426	NR	411	NR	318	NR	330	414	381	318	NR	NR	456	420
21	399	390	406	453	432	462	354	417	411	483	459	432	NR	420	NR	NR	NR	336	423	393	327	327	NR	NR	438
22	408	402	414	465	441	474	360	429	420	492	471	438	NR	432	NR	NR	NR	348	432	399	NR	333	NR	NR	447
23	417	411	423	477	453	486	369	438	429	510	483	453	NR	438	390	NR	NR	360	444	405	345	342	NR	NR	456
24	426	420	432	486	462	NR	375	447	441	NR	495	465	NR	447	399	NR	NR	366	453	417	351	348	NR	NR	465
25	438	429	438	495	471	NR	384	456	447	NR	501	471	NR	456	405	NR	NR	372	462	426	357	NR	NR	NR	474
26	444	438	447	510	480	NR	393	465	456	NR	519	480	NR	468	414	NR	366	378	NR	435	366	363	NR	NR	483
27	453	444	459	516	489	NR	399	474	465	NR	525	489	NR	477	420	NR	369	384	NR	444	375	372	NR	NR	492
28	462	453	465	522	498	NR	405	486	474	NR	534	498	NR	483	429	NR	378	393	NR	453	381	378	NR	NR	501
29	471	459	474	534	—	NR	414	498	483	NR	510	NR	492	NR	NR	384	399	NR	462	NR	384	NR	NR	—	—
30	477																								

RECOMMENDED LOADS FOR THE 105 AND 155

12 GAUGE								BUSHINGS	
Gram Equiv.	Shot Oz.	Case Type	Case Length	Powder Grains	Powder Type	Wad Type		105.	155.
(TARGET LOADS)									
2 1/4	1 1/4	LC Plastic	2 3/4"	17	700X	LTSP		417	
2 1/4	1 1/4	SC Plastic	2 3/4"	17	700X	STSP		417	
2 1/4	1 1/4	LC Paper	2 3/4"	18	700X	LTSP		428	
2 1/4	1 1/4	LC Plastic	2 3/4"	17	RD	LTSP		429	
2 1/4	1 1/4	SC Plastic	2 3/4"	17	RD	STSP		429	
2 1/4	1 1/4	LC Paper	2 3/4"	18	RD	LTSP		444	
2 1/4	1 1/4	LC Plastic	2 3/4"	19.5	452AA	LTSP		408	
2 1/4	1 1/4	SC Plastic	2 3/4"	19.5	452AA	STSP		408	
2 1/4	1 1/4	LC Paper	2 3/4"	20.5	452AA	LTSP		420	
3	1 1/4	LC Plastic	2 3/4"	18	700X	LTSP		426	
3	1 1/4	SC Plastic	2 3/4"	18	700X	STSP		426	
3	1 1/4	LC Paper	2 3/4"	18	700X	LTSP		435	
3	1 1/4	LC Plastic	2 3/4"	18	RD	LTSP		444	
3	1 1/4	SC Plastic	2 3/4"	18	RD	STSP		444	
3	1 1/4	LC Paper	2 3/4"	19	RD	LTSP		459	
3	1 1/4	LC Plastic	2 3/4"	23.5	473AA	LTSP		414	
3	1 1/4	SC Plastic	2 3/4"	23.5	473AA	STSP		414	
3	1 1/4	LC Paper	2 3/4"	24.5	473AA	LTSP		423	
(FIELD LOADS)									
3 1/4	1 1/4	LC Plastic	2 3/4"	23	Unique	SFSP		438	
3 1/4	1 1/4	LC Plastic	2 3/4"	30	AL5	SFSP		477	
3 1/4	1 1/4	LC Plastic	2 3/4"	21	GD	SFSP		459	
3 1/4	1 1/4	LC Plastic	2 3/4"	25	473AA	LTSP		426	
3 1/4	1 1/4	LC Paper	2 3/4"	25	473AA	LTSP		435	
3 1/4	1 1/4	LC Plastic	2 3/4"	24	P8	SFSP		462	
3 1/4	1 1/4	LC Paper	2 3/4"	25	P8	SFSP		471	
3 1/4	1 1/4	LC Plastic	2 3/4"	31	AL5	SFSP		486	
3 1/4	1 1/4	LC Paper	2 3/4"	32	AL5	SFSP		495	
3 1/4	1 1/4	LC Plastic	2 3/4"	35	540	SFSP		423	
3 1/4	1 1/4	LC Paper	2 3/4"	36	540	LTSP		429	
3 1/4	1 1/4	LC Plastic	2 3/4"	25	Unique	SFSP		456	
3 1/4	1 1/4	LC Paper	2 3/4"	26	Unique	SFSP		468	
4	1 1/4	LC Plastic	2 3/4"	25	SR7625	SFSP		447	
4	1 1/4	LC Paper	2 3/4"	30	SR7625	SFSP		492	
(SHORT MAGNUM)									
3 1/4	1 1/4	LC Plastic	2 3/4"	36.5	571	SFSP		432	
4	1 1/4	LC Paper	2 3/4"	30	AL7	POFF		485	
4	1 1/4	LC Paper	2 3/4"	34	AL7	POFF		495	
4	1 1/4	LC Plastic	2 3/4"	23	SR7625	POFF		429	
(3" MAGNUM)									
4	1 1/4	Plastic	3"	36	571	SFSP		429	
4 1/4	1 1/4	Plastic	3"	39	AL8	STSP		558	
4 1/4	1 1/4	Plastic	3"	38	AL8	FM#3		549	
4 1/4	1 1/4	Plastic	3"	30	SR7625	STSP		492	
4 1/4	1 1/4	Plastic	3"	38	AL8	FM#3		549	

(12 GA., 3" MAGNUM continued)								BUSHINGS	
Gram Equiv.	Shot Oz.	Case Type	Case Length	Powder Grains	Powder Type	Wad Type		105.	155.
4	1 1/4	Plastic	3"	33.5	571	STSP		414	
4 1/4	1 1/4	Plastic	3"	35	AL8	FM#1		525	
2 1/2	1 1/4	Plastic	2 3/4"	13	P8	SP		339	
2 1/2	1 1/4	Plastic	2 3/4"	21	SR4756	SP		417	
2 1/2	1 1/4	Plastic	2 3/4"	18	Herco	SP		399	
2 1/2	1 1/4	Plastic	2 3/4"	17	SR7625	SP		389	
2 1/4	1 1/4	Paper	2 3/4"	16	Green Dot	SP		406	
2 1/4	1	Plastic	2 3/4"	20	AL7	POFF		381	
2 1/4	1	Plastic	2 3/4"	16	Unique	SP		369	
2 1/4	1	Plastic	2 3/4"	19	Herco	SP		414	
2 1/4	1	Paper	2 3/4"	24	SR4756	SP		447	
2 1/4	1	Plastic	2 3/4"	22	SR4756	SP		429	
3	1 1/4	Plastic	2 3/4"	20	Herco	SP		426	
3	1 1/4	Plastic	2 3/4"	27	AL8	POFF		459	
3	1 1/4	Plastic	2 3/4"	22	SR4756	SP		429	
(3" FIELD LOADS)									
Max	1 1/4	Plastic	3"	24	SR4756	SP		447	
Max	1 1/4	Plastic	3"	35	1MR4227	SP		453	
Max	1 1/4	Plastic	3"	36	1MR4227	POFF		459	
Max	1 1/4	Plastic	3"	26	AL8	POFF		447	
Max	1 1/4	Plastic	3"	24	571	SP		351	
Max	1 1/4	Plastic	3"	21	SR4756	SP		417	

16 GAUGE								BUSHINGS	
Gram Equiv.	Shot Oz.	Case Type	Case Length	Powder Grains	Powder Type	Wad Type		105.	155.
(TARGET AND FIELD LOADS)									
2 1/2	1 1/4	Plastic	2 3/4"	15	700X	POFF		380	
2 1/4	1	Plastic	2 3/4"	14	Red Dot	SP		390	
2 1/4	1	Plastic	2 3/4"	16	700X	SP		405	
2 1/4	1	Plastic	2 3/4"	23	AL5	POFF		417	
3	1 1/4	Plastic	2 3/4"	22	Herco	SP		438	
3	1 1/4	Plastic	2 3/4"	18	Unique	SP		390	
3	1 1/4	Plastic	2 3/4"	16	Green Dot	SP		429	
3	1 1/4	Plastic	2 3/4"	23	AL7	POFF		411	
Max	1 1/4	Plastic	2 3/4"	26	SR4756	POFF		465	
Max	1 1/4	Paper	2 3/4"	30.5	571	SP		396	

20 GAUGE								BUSHINGS	
Gram Equiv.	Shot Oz.	Case Type	Case Length	Powder Grains	Powder Type	Wad Type		105.	155.
(TARGET AND FIELD LOADS)									
2 1/2	1 1/4	Plastic	2 3/4"	18	AL5	SP		375	
2 1/2	1 1/4	Plastic	2 3/4"	14	Red Dot	SP		390	
2 1/2	1 1/4	Plastic	2 3/4"	16	Unique	SP		389	
2 1/2	1 1/4	Plastic	2 3/4"	12	700X	SP		345	
2 1/2	1 1/4	Plastic	2 3/4"	18	473AA	SP		363	

RECOMMENDED WAD PRESSURE:

10-50 lbs. Not critical, may be varied for proper crimp. Wad pressure MUST be at least 10 lbs. to ensure proper wad seating.

12 GAUGE CASES

LC Plastic: Remington/Peters RXP, Winchester/Western AA, Federal plastic Champion, Remington/Peters high brass, Winchester / Western high brass, Federal high brass. LC Paper: Federal paper Champion. SC Plastic: Remington/Peters All American. SC Paper: Winchester Ranger, Western Expert, Peters Victor, Remington Shur Shot. 3" Magnum: Remington/Peters 3" Hi Velocity, Winchester/Western 3" Super X.

16 GA., 20 GA.,

Remington/Peters paper and plastic, Winchester / Western paper and plastic, Federal paper and plastic.

WADS

LTSP (Long Target Shot Protector) Pacific Red Versalite, Winchester / Western WAA12, Remington/Peters W29930, Federal Champion, Alcan "D".

STSP (Short Target Shot Protector) Pacific Green Verelite, Winchester / Western WAA12R, Remington/Peters W23694, Alcan "C".

SFSP (Short Field Shot Protector) Pacific Blue Verelite, Remington/Peters W29928.

POFF Plastic over powder and fiber filler.

NCFE Nitro card and fiber filler.

FM (#1 & #3) Alcan Flite Max.

SP (Shot Protector) Pacific White Versalite, Remington Power Piston, Winchester AA, Federal Pushin' Cushion (20 ga. only), Federal Shot Cup (.410 only).

CHANGE LOADS

with Pacific Charge Bushings and Interchangeable Crimp Starters
Interchangeable shot and powder bushings let you easily change your 105 to many different target and hunting loads. See this folder's charge bushings list. If you would like to load shells requiring a six-segment crimp, you'll need a 6-point crimp starter. (Your 105 is furnished with 8-pt.)

SWITCH GAUGES

with 105 Extra Die Sets
Extra die set contains everything you need for quick-change conversion to another gauge. 105 die sets contain dies, shell holder plate, wad guide and wad guide spring fingers. Available in 12 ga. 2 3/4", 12 ga. 3", 16 ga. 2 3/4", 20 ga. 2 3/4", or 20 ga. 3".

CONVERT TO 3" MAGNUM

with 105 Conversion Die Sets
If your 105 is already set up for loading 2 3/4" shells in 12 gauge or 20 gauge, here's an inexpensive conversion kit for loading 3" shells of the same gauge. Can be easily converted back to 2 3/4".

Designed for reloading!

VERELITE SHOTSHELL WADS

Pacific's one-piece plastic Verelite wads are designed for easy reloading and top performance. Specially designed post section prevents tilting or collapsing during the wad seating operation. Verelites provide maximum gas sealing and shot protection for uniform patterns.

Available in 12 gauge only. See this folder's "Recommended Loads" to select the Verelite best for you. Packed 250 per bag.

Pacific's versatile Versalite. A soft-shooting with hard-hitting performance. Self adjusting center section acts as a shock absorber, protecting pellets and your shoulder. It's designed for the most popular 12 and 20 gauge cases including Win. AA, Fed. Champion II, and Rem. RXP. Load light target to heavy field loads with one wad!

Pacific Tool Company cannot assume any liability for damage which may result from use of the products or information given herein, since Pacific has no control over manner in which products or components are used in the reloading operation.

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