



# PACIFIC

## DL-350 LOADER

You are now the owner of the finest precision reloading tool available. By following the procedures set forth in these instructions and by keeping your loader clean and properly lubricated, you will realize many years of enjoyable trouble free reloading.

### ADJUSTMENT AND OPERATING PROCEDURE

Before attempting to follow the instructions on loading procedure, some pre-loading preparations must be made.

1. Mount your DL-350 loader securely to a sturdy bench. When mounting be sure the loader is mounted so that the handle may be pushed all the way down to the stops without hitting on bench. Mount loader so you will have at least 16 to 18 inches of clear bench space on each side of loader.
2. Sort cases as to brand and type (high base, low base, etc.). Cases should also be checked for defects such as

base wad burned or blown out, split shell head, thin mouths, and holes burned through outside. Defective cases should be discarded or destroyed. Place a supply of these sorted cases (approximately 100) in a shallow container to the left of loader.

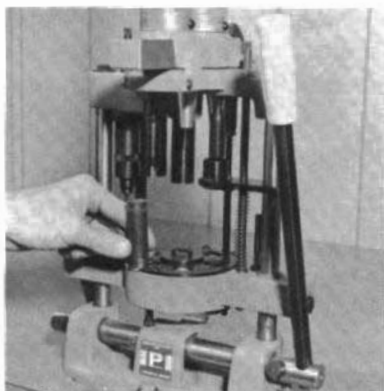
3. Place proper size primers on bench to the left of loader.
4. Determine proper wad column from charts, reloading manual or other source, and place proper wads in dispenser on the right hand side of loader.
5. Make sure the desired charge bushings are in the charge bar.
6. Install measure hoppers and measure baffles in position. **DO NOT PLACE SHOT AND POWDER IN HOPPERS AT THIS TIME.** The location of components as stated is proper for both left and right handed operators, and is necessary for fast efficient reloading.





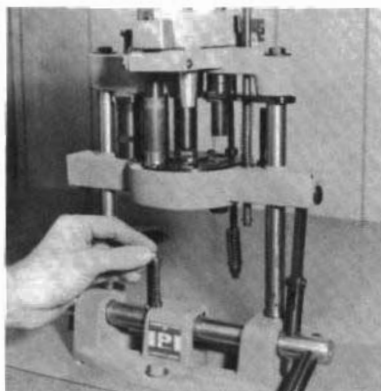
## OPERATING PROCEDURE

Read carefully several times, before attempting the actual reloading process. It is best to be alone when first learning the operating procedure to prevent distraction.

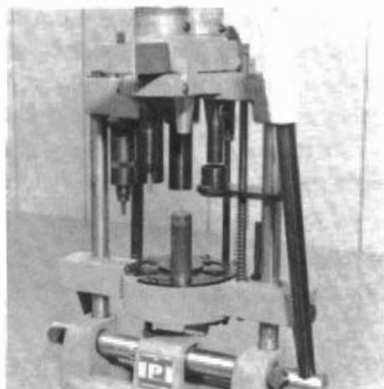


1. With left hand place empty case into station #1 of shell plate (350-63). Move operating lever (250-38) to full down position against stops. This operation decaps case.

**NOTE:** If head resizing is desired, case may be first placed into resize die. This die is located outside shell plate on left side. (Station #1A). If case is run through this die, do not forget to place good shell in station #1.



2. With operating lever still in full down position, place correct size primer into primer post (250-15) and move operating lever to full up position.



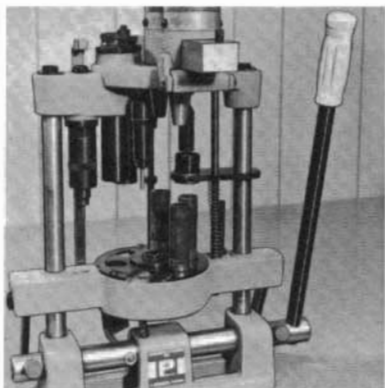
3. With left hand rotate shell plate so that primed case stops at station #2. Place proper type of powder in front hopper at this time. Place empty case in station #1 and repeat steps 1 and 2. Case at station #2 will be charged with powder.



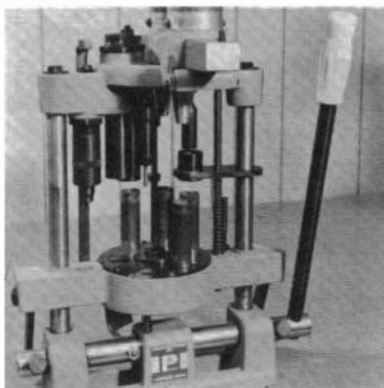
4. Rotate shell plate so that primed and charged case is moved to station #3. With left index finger press down on wad guide bracket (350-51). With right hand place proper wads into wad guide. Repeat operations #1 and #2.



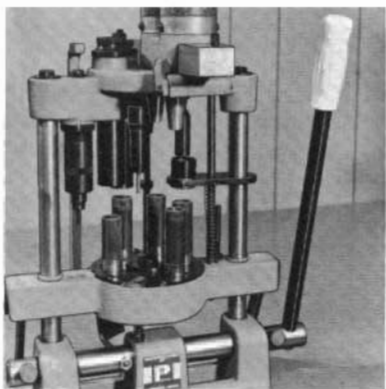
## OPERATING PROCEDURE



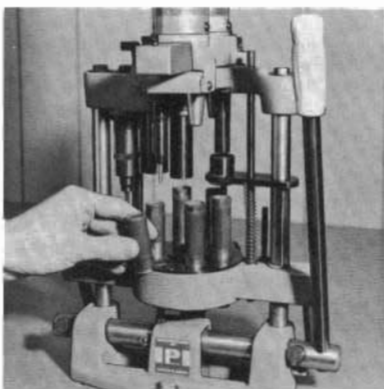
5. Rotate shell plate so that case with primer, powder and wads is at station #4. Put proper size shot into rear hopper at this time. Repeat previous operations of placing empty case, primer and wads into their respective places. Move operating lever to its full stroke, both down and up.



6. Rotate shell plate so that case with primer, powder, wads and shot is in station #5. Place empty case, primer and wads in their respective places and move operating lever to full down and up positions.



7. Rotate shell plate so that case with primer, powder, wads, shot and crimp is in station #6. Repeat previous operations of placing empty case, primer and wads, and operating lever.



8. With left hand grasp shell from station #6, rotate shell plate with it and remove from shell plate. Loader is now in sequence, and ready to load on a production level.



## NOW THAT SEQUENCE IS SET UP, PROCEED AS FOLLOWS:

1. Place empty case into shell plate at station #1, and wads into wad guide.
2. Move operating lever down to complete stop. Place primer into primer cup.
3. Move operating lever up to complete stop and remove loaded shell.

**NOTE:** When finished loading leave 5 shells in shell plate so that set-up procedure need not be repeated.

## ADJUSTMENT PROCEDURE

All loaders are factory adjusted for the load indicated by the charge bushings supplied with them. Do not attempt any adjusting until you are positive that adjustment is needed.

**WAD PRESSURE** Wad pressure reading is taken from the calibrated shaft under the movable platen at station #3. Before reading can be taken, operating lever must be in full down position against stops and loader in regular sequence of operation. Adjustment is made by loosening lock nut on wad ram (350-34) and screwing wad ram down to increase and up to decrease wad pressure. When correct reading has been attained, retighten lock nut.

**PRIMER SEATING** Be sure that primer post is not concaving head of shell. Primer post (350-15) can easily be adjusted to seat primer flush only by loosening lock nut on primer post and screwing primer post up or down as necessary. When correct primer post setting has been arrived at, retighten lock nut.

**CRIMP ADJUSTMENT** To adjust crimp depth, loosen bushing lock nut (250-12) and screw bushing (250-26) down to increase crimp, up to decrease crimp. Tighten bushing lock nut.



PACIFIC

# ADJUSTMENT PROCEDURE

(Continued)

**TAPER LOC ADJUSTMENT** To adjust taper loc, loosen lock nut (250-12) and screw taper loc die (350-60) down to increase taper, up to decrease. Remember, the more taper that is used, the deeper the crimp must be. Tighten lock nut when suitable taper has been determined.

**TIP-TOP MEASURE** The all new Pacific DL-350 loader has been equipped with the exclusive Tip-Top measure to insure ease and speed in emptying shot and powder from hoppers. To empty shot and powder hoppers, remove cap from hopper containing shot, release hopper latch (350-85) and tip complete measure casting forward pouring shot into container. When all shot has been poured out of hopper, repeat process on powder. Care must be taken when emptying shot to prevent weight of powder from forcing lid off its hopper and spilling.

## CHANGING CHARGE BUSHINGS

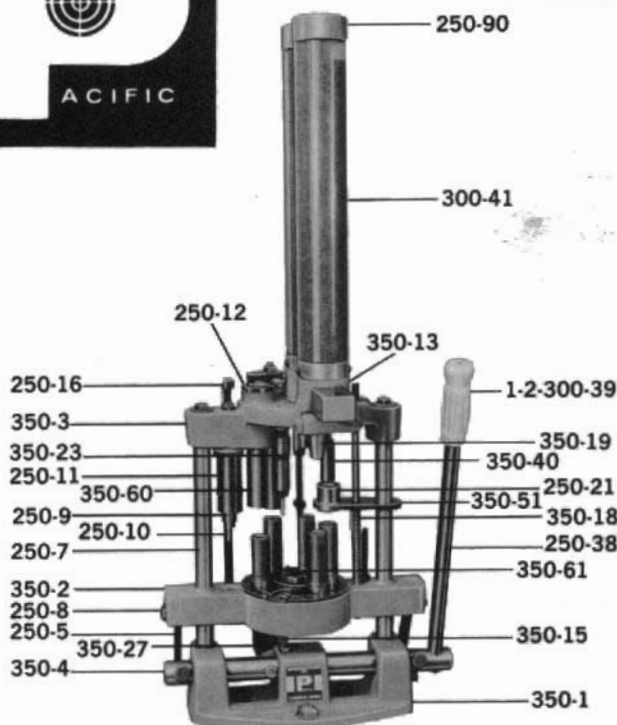
The Tip-Top measure is also utilized when changing charge bushings. To change charge bushings the tip-top measure is tipped forward. It is not necessary to have hoppers empty, but care must be taken to prevent weight of shot and powder from forcing lids off hoppers causing spilling of components. Charge bar stop screw (250-36) is removed from charge bar and charge bar extracted until shot bushing is exposed. Remove shot bushing and continue to extract bar until powder bushing is exposed. Remove powder bushing and replace with bushing of desired load. Return bar partially into loader and insert shot bushing for desired load. Continue inserting bar until original position has been reached and replace charge bar stop screw. Return tip-top measure to upright position.

**NOTE:** Powder and shot bushings have been manufactured with different outside diameters, so that they cannot accidentally be interchanged causing an extremely dangerous condition.



# PARTS AND PRICE LIST

## DL-350 LOADER



**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.

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
350-101	DL-350 die set	\$42.00	2-300-28	Crimp die spring	.40	250-65	3/16x18 Hex nut	.10
250-32	Shot Bushing	1.60	250-29	Crimp die	3.00	250-66A	1/4x20 Acorn nut	.22
250-33	Powder Bushings	1.60	250-30	Crimp plunger	1.80	350-67	1/4x20 Hex Nut	.10
350-1	Base	12.80	350-31	Charge bar	4.40	350-68	1 1/2x1 1/2 Pan head screw	
350-2	Platen	16.00	350-34	Wad ram	1.30	2-300-70	3/16x18x1/4 socket set screw	.20
350-3	Die head	15.90	350-35	1/2x20 elastic stop nut	.30	1-2-300-72	3/8 lock washer	.20
350-4	Pivot Shaft	6.40	250-36	Charge bar stop screw	.20	350-73	3/16x16 Jam nut	.20
250-5	Eccentric Arm	1.60	250-37	3/16x16 elastic stop nut	.20	250-75	7/32x7/16 roll pin	.10
250-6	Link	1.00	250-38	Operating lever	1.60	350-77	3/16x16x2 top post bolts	.22
250-7	Guide Post	3.00	1-2-300-39	Lever grip	.20	350-78	Cross pin	.60
250-8	End Screw	.80	350-40	Primer cup	.40	350-79	E Clip	.10
250-9	Eject Punch	2.00	300-41	Measure hopper	2.00	350-80	3/16 I.D. "O" ring	.20
250-10	Depreme Pin	.80	350-42	Wad pressure base	2.10	350-81	Detent ball	.20
250-11	Size die Body	4.80	250-43	Hopper screws	.10	350-84	Charge bar bearing	1.10
250-12	Bush lock nut	.40	350-44	Charge trip	3.20	350-85	Hopper latch	.70
350-13	Powder measure casting	6.40	350-45	Charge trip rod	.70	350-86	Latch Spring	.10
250-14	Charge trip spring	.20	350-47	Clevis	1.00	350-87	1/4x3/4 roll pin	.20
350-15	Primer post	.80	350-48	Rod collar	.20	250-88	3/8 flat washers	.10
250-16	Eject bar	2.20	350-49	Measure plate	1.00	2-300-89	1/4x1 roll pin	.10
250-17	E.B. Screw	.20	1-300-50	Measure seals	.20	250-90	Hopper cap	.20
350-18	Wad guide bracket spring	.30	350-51	Wad Guide bracket	1.60	250-91	3/8x3/8 roll pin	.20
350-19	Powder & shot drop tubes	2.00	350-52	Bracket sleeve	1.10	250-92	Handle stop	.20
250-20	Allen wrench	.20	350-53	Bracket rod	.80	250-94	3/32x3/8 flat head screw	.10
250-21	Wad guide cap	1.60	350-54	Wad guide stop	.60	250-95	3/16x16x2 1/2" Hex read bolts	.20
1-2-300-22	Spring fingers	1.00	350-55	Detent springs	.10	300-98	Allen wrench	.20
350-23	Primer extractor body	4.80	350-56	1 1/2 Hex Nut	.20	9-R-14	3/32x1 1/4 socket set screw	.20
250-24	Wad pressure spring	.40	350-57	1 1/2x2 3/4 Rd. Hd. screw	.20	9-G 27	1/4" hair pin clip	.20
250-26	Crimp die bushing	1.60	350-60	Taper loc size die	5.50	S9-J31	1 1/2x2 3/4 socket set screw	.10
350-25	Primer post spring	.20	350-61	Shell plate bolt	.70			
350-27	Primer deflector	.80	350-62	Shell plate cover	.70			
			350-63	Shell plate	4.00			
			350-64	Shell plate ring	2.90			

# CHARGE BUSHING CHART

Factory Load Equivalent	Case Length	Grain Weight Powder	Oz. of Shot	Wad Pressure	Type of Load	Factory Load Equivalent	Case Length	Grain Weight Powder	Oz. of Shot	Wad Pressure	Type of Load				
2 3/4 Dr	1 1/8 oz.	2 3/4"	21 Red Dot	1 1/8	80	12 Gauge Target Load	2 3/4 Dr	1 1/8 oz.	2 3/4"	23.5 P.B.	1 1/8	50	16 Gauge Hunting Load		
2 3/4 Dr	1 1/8 oz.	2 3/4"	22.5 Win.	# 450 LS	1 1/8	70	12 Gauge Target Load	3 Dr	1 1/8 oz.	2 3/4"	24 P.B.	1 1/8	50	16 Gauge Hunting Load	
2 3/4 Dr	1 1/8 oz.	2 3/4"	21 Hi-Skor		1 1/8	50	12 Gauge Target Load	3 1/4 Dr	1 1/8 oz.	2 3/4"	31 Win.	# 540 MS	1 1/8	70	16 Gauge Hunting Load
2 3/4 Dr	1 1/8 oz.	2 3/4"	23 TRAP 14		1 1/8	60	12 Gauge Target Load	2 3/4 Dr	1 1/8 oz.	2 3/4"	23 Win.	# 500 HS	1 1/8	70	16 Gauge Hunting Load
3 Dr	1 1/8 oz.	2 3/4"	23 Red Dot		1 1/8	80	12 Gauge Target Load	3 Or	1 1/8 oz.	2 3/4"	27 AL-7	1 1/8	90	16 Gauge Hunting Load	
3 Dr	1 1/8 oz.	2 3/4"	23.5 Win.	# 450 LS	1 1/8	70	12 Gauge Target Load	3 Dr	1 1/8 oz.	2 3/4"	20 TRAP 14	1 1/8	60	16 Gauge Hunting Load	
3 Dr	1 1/8 oz.	2 3/4"	20 AL-101		1 1/8	60	12 Gauge Target Load	3 1/4 Dr	1 1/8 oz.	2 3/4"	28 Herco	1 1/8	90	16 Gauge Hunting Load	
3 Or	1 1/8 oz.	2 3/4"	17 Super M		1 1/8	75	12 Gauge Target Load	3 1/4 Dr	1 1/8 oz.	2 3/4"	30 Win.	# 540 MS	1 1/4	70	16 Gauge Hunting Load
3 Or	1 1/8 oz.	2 3/4"	22 Hi-Skor		1 1/8	50	12 Gauge Target Load	3 1/2 Dr	1 1/8 oz.	2 3/4"	37 AL-8	1 1/4	90	16 Gauge Hunting Load	
3 Or	1 1/8 oz.	2 3/4"	27 TRAP 14		1 1/8	60	12 Gauge Target Load								
3 1/4 Dr	1 1/4 oz.	2 3/4"	30 AL 5		1 1/4	90	12 Gauge Hunting Load	2 1/8 Dr	3/4 oz.	2 3/4"	14 AL-101	3/4	60	20 Gauge Target Load	
3 1/4 Dr	1 1/4 oz.	2 3/4"	24.5 Win.	# 450 LS	1 1/4	70	12 Gauge Hunting Load	2 1/8 Dr	3/4 oz.	2 3/4"	16 Red Dot	3/8	80	20 Gauge Target Load	
3 1/4 Dr	1 1/4 oz.	2 3/4"	28 TRAP 14		1 1/4	60	12 Gauge Hunting Load	2 1/4 Dr	3/4 oz.	2 3/4"	16 Win.	# 450 LS	3/4	70	20 Gauge Target Load
3 1/4 Dr	1 1/4 oz.	2 3/4"	33 AL 5		1 1/4	90	12 Gauge Hunting Load	2 1/4 Dr	3/4 oz.	2 3/4"	20 P.B.	3/4	50	20 Gauge Target Load	
3 1/4 Dr	1 1/4 oz.	2 3/4"	35.5 Win.	# 500 HS	1 1/4	70	12 Gauge Hunting Load	2 1/4 Dr	3/4 oz.	2 3/4"	19 TRAP 14	3/4	60	20 Gauge Target Load	
3 1/4 Dr	1 1/4 oz.	2 3/4"	33 Herco		1 1/4	90	12 Gauge Hunting Load	2 1/2 Dr	1 oz.	2 3/4"	20 Win.	# 500 HS	1	70	20 Gauge Hunting Load
3 1/4 Dr	1 1/4 oz.	2 3/4"	25 Unique		1 1/4	50	12 Gauge Hunting Load	2 1/2 Dr	1 oz.	2 3/4"	24 AL-7	1	90	20 Gauge Hunting Load	
3 1/4 Dr	1 1/4 oz.	2 3/4"	33 P.B.		1 1/4	50	12 Gauge Hunting Load	2 1/2 Dr	1 oz.	2 3/4"	20 SR 7625	1	50	20 Gauge Hunting Load	
Short Mag.	1 1/2 oz.	2 3/4"	38 AL-7		1 1/2	90	12 Gauge Hunting Load	2 3/4 Dr	1 oz.	2 3/4"	25 Win.	# 540 MS	1	70	20 Gauge Hunting Load
4 Dr	1 1/2 oz.	2 3/4"	40.5 Win.	# 540 MS	1 1/2	70	12 Gauge Hunting Load	2 3/4 Dr	1 oz.	2 3/4"	19 TRAP 14	1	60	20 Gauge Hunting Load	
4 Dr	1 1/2 oz.	2 3/4"	38 Herco		1 1/2	90	12 Gauge Hunting Load	3 Dr	1 1/8 oz.	2 3/4"	25 Win.	# 540 MS	1 1/8	70	20 Gauge Hunting Load
4 Dr	1 1/2 oz.	2 3/4"	35 Herco		1 1/2	90	12 Gauge Hunting Load	3 Dr	1 1/8 oz.	2 3/4"	32 AL-8	1 1/8	90	20 Gauge Hunting Load	
4 Dr	1 1/2 oz.	2 3/4"	43 SR 4756		1 1/2	70	12 Gauge Hunting Load	3 Dr	1 1/8 oz.	2 3/4"	26 SR 4756	1 1/8	50	20 Gauge Hunting Load	
Short Mag.	1 1/2 oz.	2 3/4"	35 AL-7		1 1/2	90	12 Gauge Hunting Load								
4 1/4 Dr	1 1/2 oz.	2 3/4"	39.5 SR 4756		1 1/2	70	12 Gauge Hunting Load	Max	1 1/4 oz.	3"	27 Win.	# 540 MS	1 1/4	70	20 Gauge Magnum
								Max.	1 1/4 oz.	3"	33 AL-8	1 1/8	85	20 Gauge Magnum	
4 1/4 Dr	1 3/8 oz.	3"	40 AL-7		1 3/8	90	12 Gauge Magnum	2 1/4 Dr	3/4 oz.	2 3/4"	21 Win.	# 540 MS	3/4	70	28 Gauge Hunting Load
4 1/4 Dr	1 3/8 oz.	3"	41.5 Win.	# 540 MS	1 3/8	70	12 Gauge Magnum	2 1/4 Dr	3/4 oz.	2 3/4"	23 AL-8	3/4	75	28 Gauge Hunting Load	
4 1/4 Dr	1 3/8 oz.	3"	43.5 SR 4756		1 3/8	70	12 Gauge Magnum	2 1/4 Dr	3/4 oz.	2 3/4"	17 P.B.	3/4	50	28 Gauge Hunting Load	
Max.	1 3/8 oz.	3"	39 Win.	# 540 MS	1 3/8	70	12 Gauge Magnum	Max.	3/4 oz.	2 3/4"	40 IMR 4227	3/4	50	28 Gauge Hunting Load	
Max.	1 3/8 oz.	3"	47 AL-8		1 3/8	90	12 Gauge Magnum								
Max.	1 3/8 oz.	3"	40.5 SR-4756		1 3/8	70	12 Gauge Magnum	Max.	1 1/2 oz.	2 1/2"	15 2400 Rifle	1 1/2	50	410 2 1/2 Hunting Load	
								Max.	1 1/2 oz.	2 1/2"	12 SR 4756	1 1/2	30	410 2 1/2 Hunting Load	
2 1/2 Dr	3/4 oz.	2 1/4"	17 AL-101		3/4	60	16 Gauge Target Load	Max.	3/4 oz.	3"	16 2400 Rifle	3/4	50	410 3 Hunting Load	
2 1/2 Dr	1 oz.	2 1/4"	18 Red Dot		1	80	16 Gauge Target Load	Max.	3/4 oz.	3"	18.5 IMR 4227	3/4	100	410 3 Hunting Load	
2 1/2 Dr	1 oz.	2 1/4"	19 Win.	# 450 LS	1	70	16 Gauge Target Load								
2 1/2 Dr	1 oz.	2 1/4"	23.5 P.B.		1	50	16 Gauge Target Load								
2 3/4 Dr	1 oz.	2 1/4"	26 AL-5		1	90	16 Gauge Target Load								

### IMPORTANT

The same shot and powder bushings are used in the DL-150, 250, and 350.

## IMPORTANT

The same shot and powder bushings are used in the DI-150, 250, and 350.

They are designed with different outside diameters, and cannot be interchanged in the charge bar, as it would cause an extremely dangerous condition.





## TROUBLE SHOOTING CHART

TROUBLE	CAUSE	CURE
Loaded case will not chamber or chambers hard.	<ol style="list-style-type: none"> <li>1. Cases loaded when damp.</li> <li>2. Cases picked up dampness after loading.</li> <li>3. Cases swelled from too much wadding.</li> <li>4. Weak cases.</li> </ol>	<ol style="list-style-type: none"> <li>1. Dry empty fired cases in oven for ten minutes at 200° before loading. (Do not attempt to dry loaded shells in this manner.)</li> <li>2. Store cases in cool dry places.</li> <li>3. Consult charts for proper wad column and pressure for case and load.</li> <li>4. Cases loaded too many times, walls will not support wad pressure. Discard cases.</li> </ol>
Bloopers or Roar outs	<ol style="list-style-type: none"> <li>1. Powder not igniting properly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Primer not hot enough, change to hotter primers. Use only primer designed for case being loaded.</li> <li>2. Wad pressure insufficient. Check wad pressure frequently when loading.</li> <li>3. Foreign matter over primer flash hole. Exercise care in handling process, check cases for dirt or other foreign matter prior to loading.</li> <li>4. Cold lot of powder. Increase wad pressure or change to powder of another lot.</li> </ol>
Loaded cases do not hold crimp.	<ol style="list-style-type: none"> <li>1. Cases fatigued.</li> <li>2. Wad column too long.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discard cases.</li> <li>2. Consult charts for proper wad column and pressure for case and load.</li> </ol>
Heads pulled off cases after firing.	<ol style="list-style-type: none"> <li>1. Cases fatigued.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discard cases.</li> </ol>
Cases stick in final crimp die.	<ol style="list-style-type: none"> <li>1. Cases damp.</li> <li>2. Final crimp die dirty.</li> <li>3. Cases swelled from too much wadding.</li> </ol>	<ol style="list-style-type: none"> <li>1. Dry empty fired cases in oven for ten minutes at 200° before loading. (Never attempt to dry loaded shells in this manner.)</li> <li>2. Clean inside of final crimp die with carbon tet. or lighter fluid.</li> <li>3. Consult charts for proper wad column and pressure for case and load.</li> </ol>
Collapsed cases.	<ol style="list-style-type: none"> <li>1. #1 crimp die adjusted too low.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust #1 crimp die up.</li> </ol>
Shell is not completely closed in center of crimp.	<ol style="list-style-type: none"> <li>1. #1 crimp die adjusted too high.</li> <li>2. Insufficient wadding.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust #1 crimp die down.</li> <li>2. Consult charts for proper wad column and pressure for case being loaded.</li> </ol>

Pacific Gun Sight Company cannot assume any liability for damage which may result from the use of the products or information given herein. This is necessary because Pacific Gun Sight Company has no control over the manner in which products or components are used in the reloading operation.



**MANUFACTURED IN USA BY**  
**PACIFIC GUN SIGHT CO.**  
**BOX 4495**  
**LINCOLN 4, NEBRASKA**



All prices and/or specifications subject to change without notice.