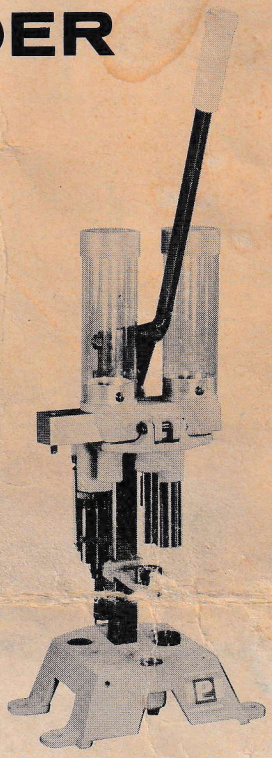
PACIFIC
DL-150
LOADER



ADJUSTMENT AND OPERATING PROCEDURE

Your DL-150 Loader is factory adjusted for the load indicated by the charge bushings supplied with the loader. The only further adjustments necessary will be for slight variations in components.

1. ADJUSTMENT OF SIZE DIE
   Size die is factory [illegible]. If at any time it should need further adjustment proceed as follows. Loosen locknut (250-12), move operating handle (150-38) to full down position, adjust size die (250-11) down until it lightly touches base casting (150-1). Do not adjust lower than necessary as it will impair operation of other dies.
2. ADJUSTMENT OF PRIMER SEATING DEPTH
   Primer seating depth is easily adjusted by loosening primer seating punch locknut and adjusting primer seating punch (150-10) up or down as necessary.
3. ADJUSTMENT OF WAD GUIDE AND WAD PRESSURE
   Wad guide should be adjusted so that spring fingers enter case about 1/8". The wad pressure is graduated from 30 to 100 pounds and read through the opening in the front of the base casting. To take reading of wad pressure the shell must be in place, with proper wad column inserted and handle in full down position. Adjustment is made by adjusting threaded drop tube (150-19) up or down to increase or decrease wad pressure as necessary. This is easily done by turning drop tube with dime inserted in slots provided in bottom of drop tube.

Form No. P-R3-62

4. ADJUSTMENT OF #1 CRIMP DIE
The adjustment of the #1 crimp die is very important. If die is not adjusted low enough, a hole will appear in the center of the crimp, after shell is run through final crimp die. Conversely, if #1 crimp die is adjusted too low very little crimp will appear and the case will be flat on the mouth and the case may be crushed. Adjustment may be accomplished as follows. Loosen set screw in #1 crimp die lock ring, loosen #1 crimp die lock ring and adjust #1 crimp die (250-60) up or down. This adjustment is critical to producing good shells. Only a small amount of movement is necessary to change crimp. When adjusted correctly case mouth will be completely closed. See illustration #7, following pages. Lock in place with lock ring and retighten set screw.

5. ADJUSTMENT OF FINAL CRIMP
The final crimp die is designed so that no adjustment is necessary or provided for, all variations in crimp being provided for in #1 crimp die.

CHARGE BAR BUSHINGS

The DL-150 with "Tip-Top Measure" and removable charge bushings makes changing loads quick and easy.

CHANGING BUSHINGS

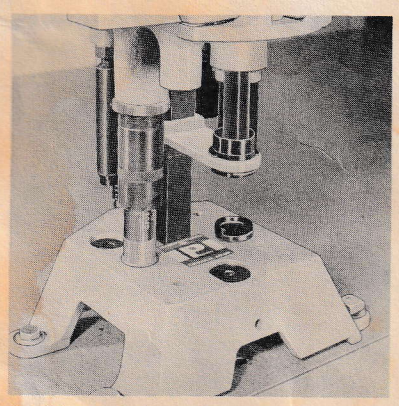
1. Release "Tip-Top Measure" latch (350-85) and tip measure forward.
2. Remove charge bar stop screw (250-36), push charge bar to the right until shot bushing is exposed, remove this bushing and continue extracting bar until powder bushing is exposed. Remove powder bushing.
3. To replace charge bushings, reverse above procedure.

NOTE: The powder and shot bushings are of different outside diameter and can not be accidentally interchanged.

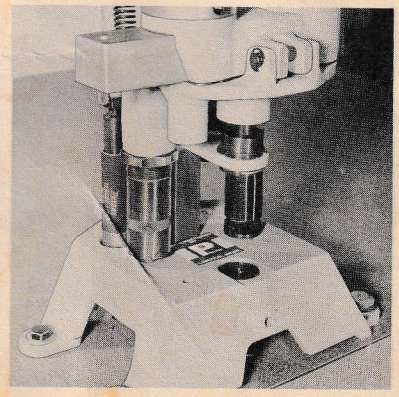
PACIFIC

OPERATING INSTRUCTIONS

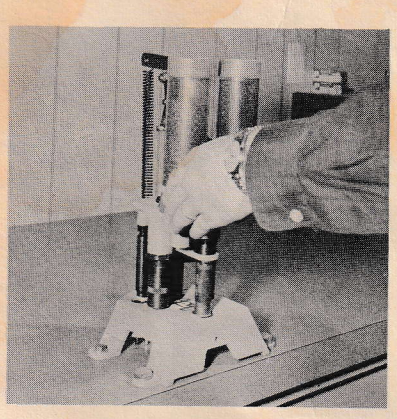
Place correct powder in left hand hopper.
Place correct size shot in right hand hopper.



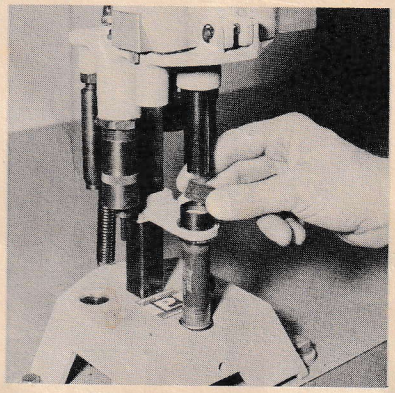
1. Place shell to be loaded into resize-decap die and move operating lever down until it hits stop. This deprimes and full length sizes the case. Return handle to full up position, this ejects shell from resizing die.



2. Place proper size primer, base down in hole in primer disc. Start mouth of case over primer seating punch. Bring operating lever to full down position, seating primer. Return handle to full up position.



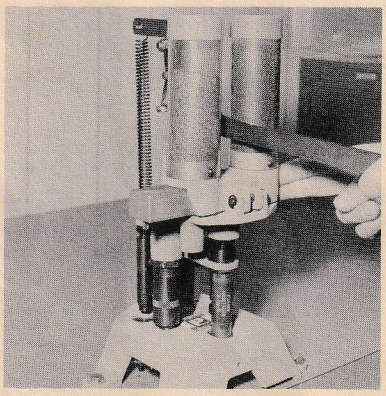
3. Place resized and primed case into wad guide. Move operating lever to ¾ down position, push charge bar all the way to the right, charging case with proper amount of powder. Return operating lever to full up position.



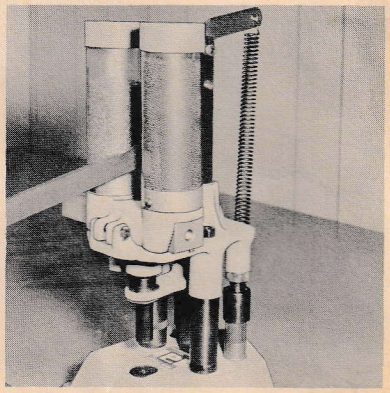
4. Place proper wad column into wad guide. Bring operating lever to full down position. Check wad pressure and adjust according to instructions (Page 1).

PACIFIC

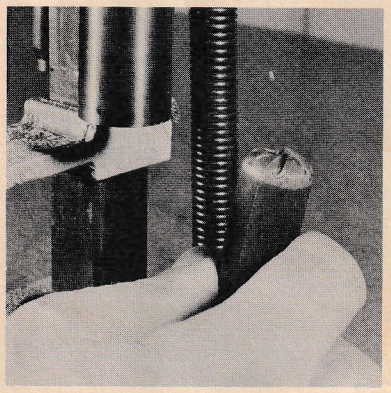
OPERATING INSTRUCTIONS



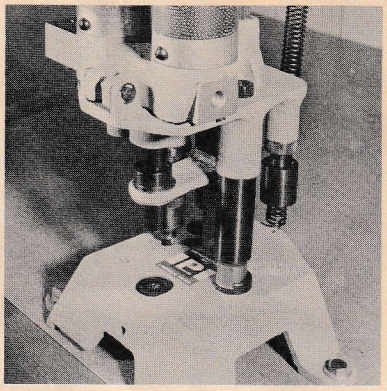
5. With handle still in down position, push charge bar all the way to the left, this places proper amount of shot into case. Return handle to full up position. There should be ½ to 9/16 inch between the top of the shot and the mouth of the case.



6. Start mouth of case into #1 crimp die and bring operating lever to full down position. This starts the crimp on the reloaded case.

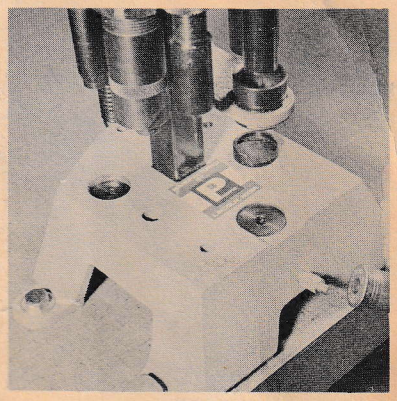


7. Reloaded case with crimp started and ready for final crimp.



8. Place case into shell holder of final crimp die, bring operating lever to full down position. Return handle to full up position. You now have a finished reloaded shell that will chamber and properly function in any type gun.

CAP CONVERTER SET



1. Place cap extractor body (250-51) in place as shown. Remove primer punch (150-10) from eject punch (150-9) in resize-decap die. Replace primer base (150-15) and primer disc (150-27) with cap seating base (150-59) and cap seating disc (150-58). Place anvil tool (250-52R) in threaded hole in front of base casting.
2. Place case to be reloaded over cap extractor body, make sure that the cap extractor pin enters flash hole of primer. Bring operating lever to full down position. Cap extractor should be adjusted so that it pushes out cap only, leaving anvil in battery cup.
3. Realign and straighten anvil by placing over anvil tool and rotating.
4. Place proper size cap into cap seating disc, start mouth of case over primer seating punch, and bring operating lever to full down position. Primer is now loaded and balance of shell may be loaded in conventional manner.

TROUBLE SHOOTING CHART

TROUBLE	CAUSE	CURE
Loaded case will not chamber or chambers hard.	1. Cases loaded when damp. 2. Cases picked up dampness after loading. 3. Cases swelled from too much wadding. 4. Weak cases.	1. Dry empty fired cases in oven for ten minutes at 200° before loading. (Do not attempt to dry loaded shells in this manner.) 2. Store cases in cool dry places. 3. Consult charts for proper wad column and pressure for case and load. 4. Cases loaded too many times, walls will not support wad pressure. Discard cases.
Bloopers or Roar outs	1. Powder not igniting properly.	1. Primer not hot enough, change to hotter primers. Use only primer designed for case being loaded. 2. Wad pressure insufficient. Check wad pressure frequently when loading. 3. Foreign matter over primer flash hole. Exercise care in handling process, check cases for dirt or other foreign matter prior to loading. 4. Cold lot of powder. Increase wad pressure or change to powder of another lot.
Loaded cases do not hold crimp.	1. Cases fatigued. 2. Wad column too long.	1. Discard cases. 2. Consult charts for proper wad column and pressure for case and load.
Heads pulled off cases after firing.	1. Cases fatigued.	1. Discard cases.
Cases stick in final crimp die.	1. Cases damp. 2. Final crimp die dirty. 3. Cases swelled from too much wadding.	1. Dry empty fired cases in oven for ten minutes at 200° before loading. (Never attempt to dry loaded shells in this manner.) 2. Clean inside of final crimp die with carbon tet. or lighter fluid. 3. Consult charts for proper wad column and pressure for case and load.
Collapsed cases.	1. #1 crimp die adjusted too low.	1. Adjust #1 crimp die up.
Shell is not completely closed in center of crimp.	1. #1 crimp die adjusted too high. 2. Insufficient wadding.	1. Adjust #1 crimp die down. 2. Consult charts for proper wad column and pressure for case being loaded.

CHARGE BUSHING CHART

Factory Load Equivalent		Case Length	Grain Weight Powder	Oz. of Shot	Wad Pressure	Type of Load
2¾ Dr	1⅛ oz.	2¾"	21 Red Dot	1⅛	80	12 Gauge Target Load
2¾ Dr	1⅛ oz.	2¾"	22.5 Win. #450 LS	1⅛	70	12 Gauge Target Load
2¾ Dr	1⅛ oz.	2¾"	21 Hi-Skor	1⅛	50	12 Gauge Target Load
2¾ Dr	1⅛ oz.	2¾"	23 TRAP 14	1⅛	60	12 Gauge Target Load
3 Dr	1⅛ oz.	2¾"	23 Red Dot	1⅛	80	12 Gauge Target Load
3 Dr	1⅛ oz.	2¾"	23.5 Win. #450 LS	1⅛	70	12 Gauge Target Load
3 Dr	1⅛ oz.	2¾"	20 AL-101	1⅛	60	12 Gauge Target Load
3 Dr	1⅛ oz.	2¾"	17 Super M	1⅛	25	12 Gauge Target Load
3 Dr	1⅛ oz.	2¾"	22 Hi-Skor	1⅛	50	12 Gauge Target Load
3 Dr	1⅛ oz.	2¾"	27 TRAP 14	1⅛	60	12 Gauge Target Load
3¼ Dr	1¼ oz.	2¾"	30 AL-5	1¼	90	12 Gauge Hunting Load
3¼ Dr	1¼ oz.	2¾"	24.5 Win. #450 LS	1¼	70	12 Gauge Hunting Load
3¼ Dr	1¼ oz.	2¾"	28 TRAP 14	1¼	60	12 Gauge Hunting Load
3¾ Dr	1¼ oz.	2¾"	33 AL-5	1¼	90	12 Gauge Hunting Load
3¾ Dr	1¼ oz.	2¾"	35.5 Win. #500 HS	1¼	70	12 Gauge Hunting Load
3¾ Dr	1¼ oz.	2¾"	33 Herco	1¼	90	12 Gauge Hunting Load
3¾ Dr	1¼ oz.	2¾"	25 Unique	1¼	50	12 Gauge Hunting Load
3¾ Dr	1¼ oz.	2¾"	33 P.B.	1¼	50	12 Gauge Hunting Load
Short Mag.	1½ oz.	2¾"	38 AL-7	1½	90	12 Gauge Hunting Load
4 Dr	1½ oz.	2¾"	40.5 Win. #540 MS	1½	70	12 Gauge Hunting Load
4 Dr	1⅜ oz.	2¾"	38 Herco	1⅜	90	12 Gauge Hunting Load
4 Dr	1⅜ oz.	2¾"	35 Herco	1⅜	90	12 Gauge Hunting Load
4 Dr	1⅜ oz.	2¾"	43 SR 4756	1⅜	70	12 Gauge Hunting Load
Short Mag.	1½ oz.	2¾"	35 AL-7	1½	90	12 Gauge Hunting Load
4¼ Dr	1½ oz.	2¾"	39.5 SR 4756	1½	70	12 Gauge Hunting Load
4⅜ Dr	1⅝ oz.	3"	40 AL-7	1⅝	90	12 Gauge Magnum
4¼ Dr	1⅝ oz.	3"	41.5 Win. #540 MS	1⅝	70	12 Gauge Magnum
4¼ Dr	1⅝ oz.	3"	43.5 SR 4756	1⅝	70	12 Gauge Magnum
Max.	1⅞ oz.	3"	39 Win. #540 MS	1⅞	70	12 Gauge Magnum
Max.	1¾ oz.	3"	47 AL-8	1¾	90	12 Gauge Magnum
Max.	1¾ oz.	3"	40.5 SR-4756	1¾	70	12 Gauge Magnum
2½ Dr	⅞ oz.	2¾"	17 AL-101	⅞	60	16 Gauge Target Load
2½ Dr	1 oz.	2¾"	18 Red Dot	1	80	16 Gauge Target Load
2½ Dr	1 oz.	2¾"	19 Win. #450 LS	1	70	16 Gauge Target Load
2½ Dr	1 oz.	2¾"	23.5 P.B.	1	50	16 Gauge Target Load
2¾ Dr	1 oz.	2¾"	26 AL-5	1	90	16 Gauge Target Load
2¾ Dr	1⅛ oz.	2¾"	23.5 P.B.	1⅛	50	16 Gauge Hunting Load
3 Dr	1⅛ oz.	2¾"	24 P.B.	1⅛	50	16 Gauge Hunting Load
3¼ Dr	1⅛ oz.	2¾"	31 Win. #540 MS	1⅛	70	16 Gauge Hunting Load
2¾ Dr	1⅛ oz.	2¾"	23 Win. #500 HS	1⅛	70	16 Gauge Hunting Load
3 Dr	1⅛ oz.	2¾"	27 AL-7	1⅛	90	16 Gauge Hunting Load
3 Dr	1⅛ oz.	2¾"	20 TRAP 14	1⅛	60	16 Gauge Hunting Load
3¼ Dr	1⅛ oz.	2¾"	28 Herco	1⅛	90	16 Gauge Hunting Load
3¼ Dr	1¼ oz.	2¾"	30 Win. #540 MS	1¼	70	16 Gauge Hunting Load
3½ Dr	1¼ oz.	2¾"	37 AL-8	1¼	90	16 Gauge Hunting Load
2⅛ Dr	¾ oz.	2¾"	14 AL-101	¾	60	20 Gauge Target Load
2⅛ Dr	⅞ oz.	2¾"	16 Red Dot	⅞	80	20 Gauge Target Load
2¼ Dr	⅞ oz.	2¾"	16 Win. #450 LS	⅞	70	20 Gauge Target Load
2¼ Dr	⅞ oz.	2¾"	20 P.B.	⅞	50	20 Gauge Target Load
2¼ Dr	⅞ oz.	2¾"	19 TRAP 14	⅞	60	20 Gauge Target Load
2½ Dr	1 oz.	2¾"	20 Win. #500 HS	1	70	20 Gauge Hunting Load
2½ Dr	1 oz.	2¾"	24 AL-7	1	90	20 Gauge Hunting Load
2½ Dr	1 oz.	2¾"	20 SR 7625	1	50	20 Gauge Hunting Load
2¾ Dr	1 oz.	2¾"	25 Win. #540 MS	1	70	20 Gauge Hunting Load
2¾ Dr	1 oz.	2¾"	19 TRAP 14	1	60	20 Gauge Hunting Load
3 Dr	1⅛ oz.	2¾"	25 Win. #540 MS	1⅛	70	20 Gauge Hunting Load
3 Dr	1⅛ oz.	2¾"	32 AL-8	1⅛	90	20 Gauge Hunting Load
3 Dr	1⅛ oz.	2¾"	26 SR 4756	1⅛	50	20 Gauge Hunting Load
Max.	1¼ oz.	3"	27 Win. #540 MS	1¼	70	20 Gauge Magnum
Max.	1⅛ oz.	3"	33 AL-8	1⅛	85	20 Gauge Magnum
2¼ Dr	¾ oz.	2¾"	21 Win. #540 MS	¾	70	28 Gauge Hunting Load
2¼ Dr	¾ oz.	2¾"	23 AL-8	¾	75	28 Gauge Hunting Load
2¼ Dr	¾ oz.	2¾"	17 P.B.	¾	50	28 Gauge Hunting Load
Max.	⅞ oz.	2¾"	40 IMR 4227	⅞	50	28 Gauge Hunting Load
Max.	½ oz.	2½"	15 2400 Rifle	½	50	410 2½ Hunting Load
Max.	½ oz.	2½"	12 SR 4756	½	30	410 2½ Hunting Load
Max.	¾ oz.	3"	16 2400 Rifle	¾	50	410 3 Hunting Load
Max.	¾ oz.	3"	18.5 IMR 4227	¾	100	410 3 Hunting Load

IMPORTANT

The same shot and powder bushings are used in the DL-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.

STATEMENT OF LIABILITY

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

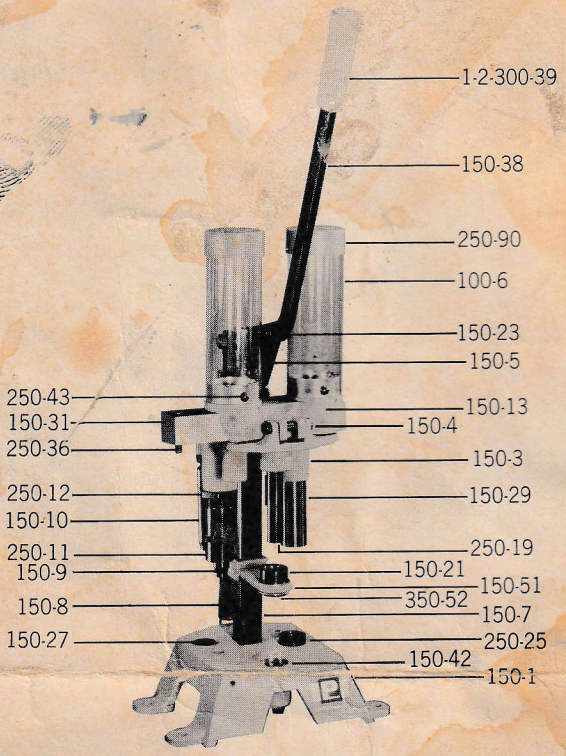
LINCOLN 4, NEBRASKA

MEMBER NATIONAL RELOADING MANUFACTURERS ASSOCIATION

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

PACIFIC

PARTS & PRICE LIST
DL-150 LOADER



PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
150-1	Base	6.40	*150-30	Crimp plunger	1.60
*150-2	Eject bar spacer (2)	.20	150-31	Charge bar	2.70
150-3	Die head	6.40	*250-32	Shot bushing	1.60
150-4	PM Pivot pin	.70	*250-33	Powder bushing	1.60
150-5	Link (2)	.50	*150-34	Post spacer threaded	.70
100-6	Measure hoppers (2)	.60	*150-35	Post spacer-plain	.50
150-7	Guide post	2.40	250-36	Charge bar stop screw	.20
150-8	Main Spring	.70	*250-37	3/8-16 Elastic stop nut	.20
150-9	Eject punch	1.60	150-38	Operating lever	1.60
150-10	Primer punch	1.00	1-2-300-39	Lever grip	.20
250-11	Size die body	4.80	150-42	W P Base	1.60
250-12	Locknut	.40	250-43	Hopper screws (10-32x3/8 ST (4)	.10
150-13	P M casting	5.80	*350-46	5/16-18 Elastic stop nut	.20
*150-14	Primer seater spring	.20	*150-47	9/16-18 Jam Nut (2)	.20
*150-15	Primer base	.50	*150-49	Measure plate	1.00
*150-16	Eject bar	1.00	150-51	Wad guide brkt.	.80
*150-17	E.B. bolt 5/16-18x1 3/8HH	.50	*1-300-50	Measure seals (2)	.10
*150-18	Lever bolt 5/16-18x1 3/4 HH	.50	350-52	Brkt. sleeve	1.10
250-19	Drop tube	2.40	*250-60	#1 Crimp die	2.60
*150-20	Wad guide Brkt. bolt	.20	*350-73	3/8-16 Jam nut	.20
150-21	Wad guide cap	1.60	*250-74	1/2-20 Hex nut	.20
*1-2-300-22	Spring fingers	1.00	*250-75	7/32 x 9/16 Sel loc roll pin	.10
150-23	Link pin (2)	.30	*350-79	"E" clip	.10
*250-24	Wad pressure spring	.40	*350-85	Hopper latch	.70
250-25	Shell holder	2.00	*350-87	1/8x3/4 Sel loc roll pin	.20
*150-26	1/4x1/2 Sel loc roll pin	.30	250-90	Hopper caps	.20
150-27	Primer disc	.40	*250-94	6-32x3/8 flat hd. sc.	.20
*150-28	"E" clip (5133-50)	.20	*9-G28	Spring	.20
150-29	Crimp die	2.90	*9-R14	6-32x1/8 sckt. set sc. (3)	.20

*Not numbered on Photo