

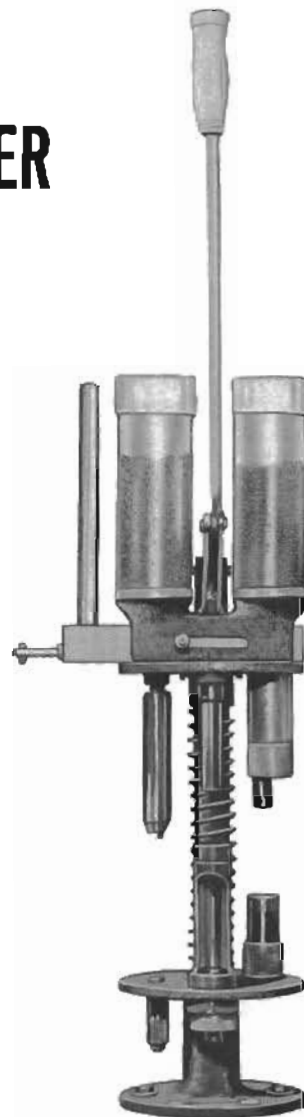


Model DL-100 LOADER

COMPLETE ADJUSTMENT AND OPERATING PROCEDURE

You are now the proud owner of the finest shot shell loader on the market. By following the procedure outlined on this sheet you will enjoy many years of trouble free reloading.

First, mount your Model 100 Loader securely on a sturdy bench. We suggest using three (3) lag screws or stove bolts. You will note that the Model 100 Loader is completely assembled except for attaching link part #100-11 to operating lever part #100-91 and placing hoppers part #100-6 on casting #100-5 as shown in photos on the following page. Before you start loading make sure that the charge bar, #100-7, corresponds with the gauge you are going to load and to the powder being used.



CAUTION: Always install the charge bar with the identification number and letter on the right hand side of the loader.
Fill hopper on the left side with powder and the hopper on the right hand side with shot.
Do not let handle snap back after each operation. This will cause variation of powder and shot charge, in some cases a dangerous condition.

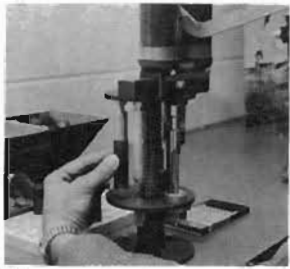
CAUTION: Before reloading shells that you may have picked up, remember, they might have been discarded after several firings.
Each shell should be carefully examined both inside and out. Any shells found defective should be discarded or destroyed.

- A. Any shell having two piece base wad construction, in which one of the pieces has burned through or blown out.
- B. Split shell head.
- C. Thin mouths.
- D. Charred area in paper body along the body seam or at the top of the brass head.
- E. A loose body, one that has started to pull out of the brass head.
- F. Swelled head.

IMPORTANT: Before proceeding read the following instructions. (Several times if necessary.)
Be sure you understand the function of this type of loader. It is best to be alone the first time loading procedure is set up, and until you have loaded at least 20 shells.

MODEL DL-100 SHOT SHELL LOADER OPERATING PROCEDURE

PROCEED AS FOLLOWS:



Place empty case over part #100-38. Move operating lever down to remove old primer.



Place new primer in cup of part #100-31. Place case over part #100-25. Move operating lever down to push in new primer. Part #100-31 must be adjusted to seat primer flat with base of case.



Place case into part #100-23. Move operating lever down and push charge bar to right charging case with powder.



Place proper wads in #100-21 and move operating lever down to complete stop placing proper pressure on wads and powder. Wad pressure can be increased or decreased by screwing part #100-32 up or down. Pressure is indicated on back of part #100-23.



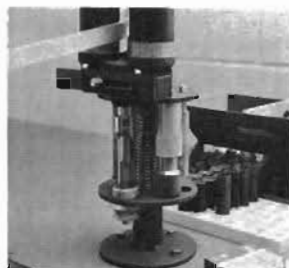
Push charge bar to left charging case with shot.



Pull down on part #100-27 and turn right or left $\frac{1}{8}$ turn. This operation sets #100-27 for sizing and crimp starting.



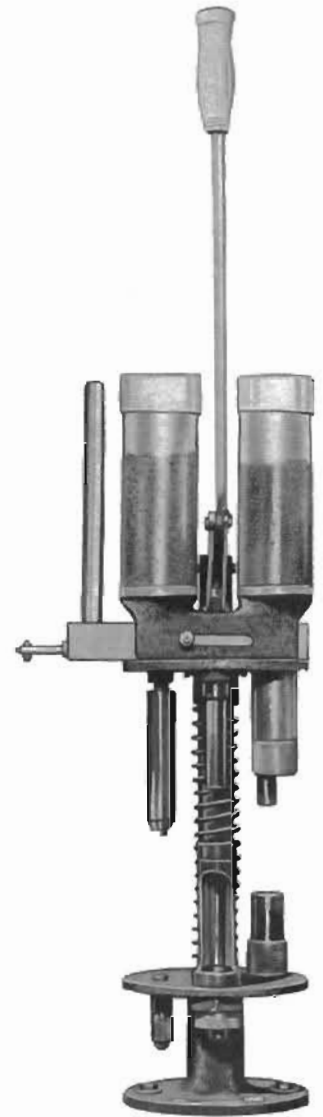
Place case half way into crimp size die and move operating lever down to complete stop. This operation sizes shell and starts crimp.



Release pressure on operating lever slightly and turn part #100-27 right or left until part snaps into holes provided. Move operating lever down to complete stop. This operation finishes the crimp. Crimp depth can be adjusted by screwing crimp plunger up or down.



Place loaded shell in die, under part #100-30. Move operating lever down to eject shell from die. NOTE -- shell will seem to be tight in size die until several shells have been loaded.



Result — A perfect reload!

SPECIAL INSTRUCTIONS

To determine proper wad column, remember: When using desired powder and shot charge with proper wad pressure, there should be $\frac{1}{2}$ to $\frac{9}{16}$ inch of space from the top of the shot to the mouth of the case before crimping.

Do not load damp cases as they will not resize properly and will not function in self-loading guns. (Damp unprimed cases may be dried by placing in an oven at 180° for about ten minutes.)

TAPER-LOC

The DL taper-loc die and bracket can be purchased as an accessory. Installation is made in the hole provided on the back of the unit. The die should be adjusted to operate on the full stop position of the loader.

INSTALLING TAPER-LOC ON CONVENTIONAL CRIMP

Place shell with conventional crimp into taper-loc die. Rotate operating lever down to complete stop. Remove shell and note the amount of taper on crimp.

NOTE—The taper-loc die can be adjusted by screwing the die up or down in the bracket. Be sure to tighten lock nut when desired adjustment is made.

REMEMBER—To increase the amount of taper, you must also increase the depth of the crimp. To load caps only, replace parts as shown on parts list and follow the same procedure. When the cap has been removed straighten anvil with tool provided, part #100-54.

PART NUMBER	DESCRIPTION	PRICE EACH
100-1	Base Assembly	\$5.00
100-2	Guide Post	3.60
100-3	Main Spring .....	.60
100-4	Die Head	4.60
100-4	Measure Casting	6.00
100-6	Measure Hopper .....	.60
100-7	Charge Bar	3.60
1-300-90	Hopper Cap .....	.20
100-9	Bar Stop Bolt .....	.40
100-91	Operating Lever	1.60
100-11	Link .....	.40
100-12	Lever Bolt .....	.40
100-13	Link Bolt .....	.40
1-2-300-39	Lever Grip .....	.20
100-15	Measure Bolt .....	.20
100-16	Measure screw (not shown) ..	.10
100-17	Die Head Bolt (not shown) ....	.40
100-18	Measure Plate .....	.60
100-19	Decap Punch	1.20
1-2-300-10	Decap Pin .....	.80
100-21	Wad Guide Cap	1.60
1-2-300-22	Spring Fingers	1.00
1-200-23	Wad Guide Body	6.40
100-24	Wad Pressure Spring (not shown) .....	.40
100-25	Primer Punch	1.80
100-26	Drop Tube	2.40
100-27	Crimp Die Body	2.60
100-28	Crimp Die Spring (not shown) ..	.20
100-29	Crimp Plunger (not shown) ..	.80
100-30	Eject Punch	1.00
100-31	Primer Seater Assembly	3.00
100-32	Wad Guide Cup	2.60
100-33	Cup Lock Nut .....	.50
100-34	Size Die	2.80
100-35	Guide Post Bolt .....	.20
(CAP CONVERSION SET)		
100-38	Cap Extractor Body	1.20
100-74	Cap Extractor Bushing .....	.80
100-40	Cap Seating Assembly	2.80
100-41	Cap Extractor Pin .....	.80
1-2-300-54R	Anvil Tool (Remington size) ..	1.00
1-2-300-54W	Anvil Tool (Winchester size) ..	1.00
DL-100	HUNTER SPECIAL COMPLETE	\$65.50

ACCESSORY PARTS

1-2-300-61	Crimp Starter Die	4.80
100-44	Accessory Bracket (not shown) ..	1.20
1-200-60	Taper-Loc Die	2.60
Accessory bracket is needed when crimp starter die or taper-loc die is installed on DL 100 Loader		
Die set 12, 12 mag, 16, 20, 20 mag.		12.00
Die set 28, 40, 410-3"		14.00

COMMON CAUSES OF CHAMBERING DIFFICULTY

- Loading damp cases or cases that have been wet.
- Too many wads or excessive wad pressure.
- Weak cases that have been loaded too many times and will not support wad pressure.
- Storing loaded shells in a damp place.

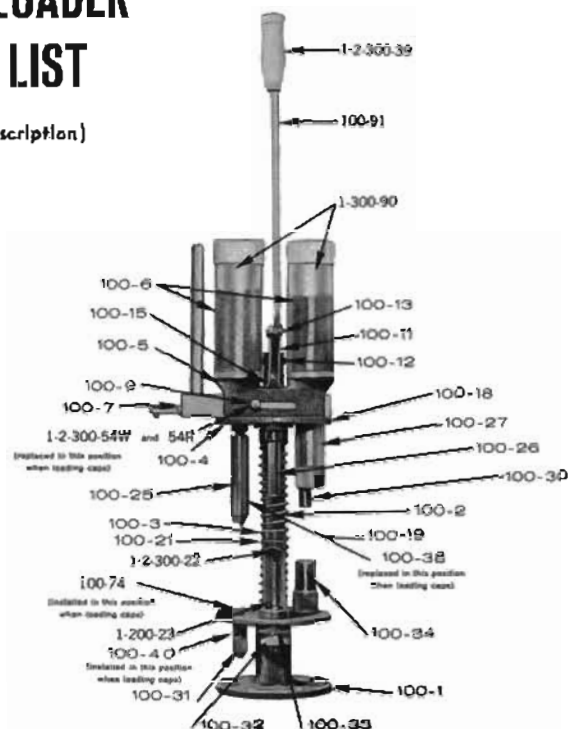
*All loaders are furnished with universal size die designed to load all brands of cases. A special size die of smaller diameter is available for loading Winchester-Western Target Load Cases only, and is identified by 1/4" knurl on body.

MODEL DL-100 LOADER PARTS PRICE LIST

(Order by Number and Description)

POWDER AND SHOT CHARGES WILL VARY DUE TO THE FOLLOWING CONDITIONS:

Due to density and moisture content, powder will vary in weight from one lot to the next. Shot charges will vary in weight due to the size of shot and alloy used in each lot. All charge bars have been tested and are an average of several different lots. We do not recommend that bars be altered or substitute powder be used.



CHARGE BARS NOW AVAILABLE FOR DL LOADERS

Model 100 Hunter's Special

Factory Load Equivalent	Case Length	Bar Number	Grain Weight Powder	Oz. of Shot	Wad Pressure	Type of Load
2 3/4 Dr 1 1/4 oz.	2 3/4"	12-A	21 Red Dot	1 1/4	80	12 Gauge Target Load
2 3/4 Dr 1 1/4 oz.	2 3/4"	12-W	22.5 Win. #450 LS	1 1/4	70	12 Gauge Target Load
3 Dr 1 1/4 oz.	2 3/4"	12-B	23 Red Dot	1 1/4	80	12 Gauge Target Load
3 Dr 1 1/4 oz.	2 3/4"	12-T	23.5 Win. #450 LS	1 1/4	70	12 Gauge Target Load
3 Dr 1 1/4 oz.	2 3/4"	12-C	20 AL-101	1 1/4	60	12 Gauge Target Load
3 Dr 1 1/4 oz.	2 3/4"	12-D	17 Super M	1 1/4	25	12 Gauge Target Load
3 1/4 Dr 1 1/4 oz.	2 3/4"	12-E	30 AL-5	1 1/4	90	12 Gauge Hunting Load
3 1/4 Dr 1 1/4 oz.	2 3/4"	12-S	24.5 Win. #450 LS	1 1/4	70	12 Gauge Hunting Load
3 1/4 Dr 1 1/4 oz.	2 3/4"	12-F	33 AL-5	1 1/4	90	12 Gauge Hunting Load
3 1/4 Dr 1 1/4 oz.	2 3/4"	12-R	35.5 Win. #500 HS	1 1/4	70	12 Gauge Hunting Load
3 1/4 Dr 1 1/4 oz.	2 3/4"	12-G	33 Herco	1 1/4	90	12 Gauge Hunting Load
Short Mag.	2 3/4"	12-H	38 AL-7	1 1/2	90	12 Gauge Hunting Load
4 Dr 1 1/2 oz.	2 3/4"	12-P	40.5 Win. #540 MS	1 1/2	70	12 Gauge Hunting Load
4 Dr 1 1/2 oz.	2 3/4"	12-J	38 Herco	1 1/2	90	12 Gauge Hunting Load
4 Dr 1 1/2 oz.	2 3/4"	**12-V	35 Herco	1 1/2	90	12 Gauge Hunting Load
Short Mag.	1 1/2 oz.	**12-U	35 AL-7	1 1/2	90	12 Gauge Hunting Load
4 3/4 Dr 1 1/2 oz.	3"	12-K	40 AL-7	1 3/4	90	12 Gauge Magnum
4 1/4 Dr 1 1/2 oz.	3"	12-N	41.5 Win. #540 MS	1 3/4	70	12 Gauge Magnum
Max.	1 1/2 oz.	12-M	39.0 Win. #540 MS	1 3/4	70	12 Gauge Magnum
Max.	1 3/4 oz.	12-L	47 AL-8	1 3/4	90	12 Gauge Magnum
2 1/2 Dr 1 1/2 oz.	2 3/4"	16-M	17 AL-101	3/4	60	16 Gauge Target Load
2 1/2 Dr 1 oz.	2 3/4"	16-N	18 Red Dot	1	80	16 Gauge Target Load
2 1/2 Dr 1 oz.	2 3/4"	16-L	19 Win. #450 LS	1	70	16 Gauge Target Load
2 3/4 Dr 1 oz.	2 3/4"	16-O	26 AL-5	1	90	16 Gauge Target Load
3 1/4 Dr 1 1/2 oz.	2 3/4"	16-U	31 Win. #540 MS	1 1/4	70	16 Gauge Hunting Load
2 3/4 Dr 1 1/2 oz.	2 3/4"	16-K	23 Win. #500 HS	1 1/4	70	16 Gauge Hunting Load
3 1/4 Dr 1 1/2 oz.	2 3/4"	16-H	30 Win. #540 MS	1 1/4	70	16 Gauge Hunting Load
3 Dr 1 1/2 oz.	2 3/4"	16-P	27 AL-7	1 1/4	90	16 Gauge Hunting Load
3 1/4 Dr 1 1/2 oz.	2 3/4"	16-R	28 Herco	1 1/4	90	16 Gauge Hunting Load
3 1/2 Dr 1 1/4 oz.	2 3/4"	16-S	37 AL-8	1 1/4	90	16 Gauge Hunting Load
2 1/2 Dr 3/4 oz.	2 3/4"	20-T	14 AL-101	3/4	60	20 Gauge Target Load
2 1/2 Dr 3/4 oz.	2 3/4"	20-U	16 Red Dot	3/4	80	20 Gauge Target Load
2 1/4 Dr 3/4 oz.	2 3/4"	20-G	16 Win. #450 LS	3/4	70	20 Gauge Target Load
2 1/2 Dr 1 oz.	2 3/4"	20-F	20 Win. #500 HS	1	70	20 Gauge Hunting Load
2 1/2 Dr 1 oz.	2 3/4"	20-V	24 AL-7	1	90	20 Gauge Hunting Load
2 3/4 Dr 1 oz.	2 3/4"	20-E	25 Win. #540 MS	1	70	20 Gauge Hunting Load
3 Dr 1 1/2 oz.	2 3/4"	20-D	25 Win. #540 MS	1 1/4	70	20 Gauge Hunting Load
3 Dr 1 1/2 oz.	2 3/4"	20-W	32 AL-8	1 1/4	90	20 Gauge Hunting Load
Max.	1 1/4 oz.	20-C	27 Win. #540 MS	1 1/4	70	20 Gauge Magnum
Max.	1 1/4 oz.	20-A	33 AL-8	1 1/4	85	20 Gauge Magnum
2 1/4 Dr 3/4 oz.	2 3/4"	28-B	21 Win. #540	3/4	70	28 Gauge Hunting Load
2 1/4 Dr 3/4 oz.	2 3/4"	28-F	23 AL-8	3/4	75	28 Gauge Hunting Load
Max.	1 1/2 oz.	410-B	15 Herc 2400 Rifle	1 1/2	50	410 Hunting Load
Max.	3/4 oz.	410-C	16 Herc 2400 Rifle	3/4	50	410 Hunting Load

INSTALLATION INSTRUCTIONS FOR AUTOMATIC PRIMER FEED ON DL 100 LOADER

*All Gauges Except 410 Gauge (cannot be installed on Old Model 100 Loaders)

FOR BEST RESULTS PLEASE FOLLOW THESE INSTRUCTIONS

1. Your Model 100 Loader is completely assembled and adjusted with the exception of the automatic primer feed assembly, which is only partially assembled to facilitate shipping.
2. You will note that Parts No. 10 and 11 are assembled so that shoulder of Part No. 11 extends above die head, but not above bottom plate of Part No. 6 when installed. Be sure this part is properly adjusted if dies are changed to another gauge.
3. Place Part No. 6 into position with flat side down as shown in illustration. Be sure that hole in bottom plate of No. 6 fits over shoulder of No. 11. Secure No. 6 in place with nut No. 12 on $\frac{3}{8}$ " stud of Decap Unit.
4. You will note that Parts 1, 2, 3, 4, 5, and 7 have been assembled. This assembly must now be attached to charge bar by screwing Part No. 2 approximately $\frac{1}{2}$ " into threaded hole in end of charge bar. In order to do this you must remove charge bar bolt and slide charge bar to the left far enough for assembly 1, 2, 3, 4, and 5 to clear No. 6 while being installed. Before replacing bar stop bolt, be sure Part No. 5 is right side up. In order to do this, place pencil down through hole. Pencil should point in toward base of loader.
5. Now slide charge bar to right. At the same time place No. 5 into opening in No. 6. Replace charge bar bolt.

ADJUSTMENT PROCEDURE

NOW THAT ASSEMBLY IS COMPLETE, PROCEED AS FOLLOWS:

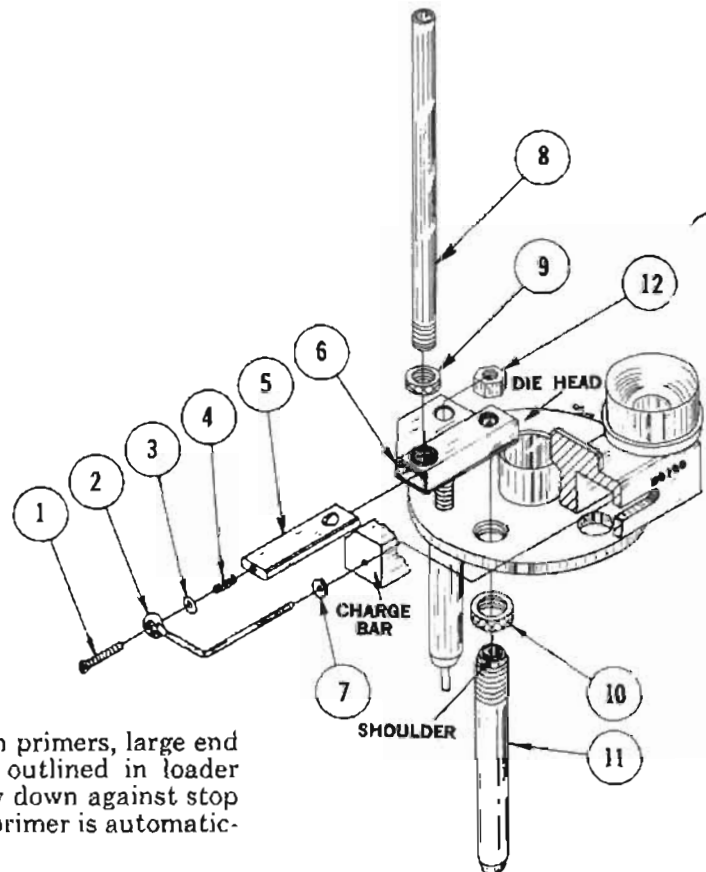
1. Move charge bar to left as far as possible and check to make sure hole in No. 5 lines up with threaded hole in part No. 6. If these holes do not line up they may be adjusted by screwing Part No. 2 in or out as directed above. When Part No. 2 is properly adjusted, tighten lock nut (Part No. 7). Be sure Part No. 2 is in position to allow free movement of Part No. 5 when sliding in or out. During line up procedure, it may be necessary to loosen and retighten Part No. 12.
2. Move charge bar to left as far as possible and place primer into hole in Part No. 5 (large end down). Install Part No. 8 adjusting bottom of Part No. 8 so it will clear top of primer about the thickness of the cardboard in a shot shell box. This is a very important adjustment and will have to be changed when different brands and sizes of primers are used or primer will not feed smoothly. When adjustment is made, lock in place with Part No. 9.

OPERATING PROCEDURE

Place shot and powder in hoppers and fill primer tube with primers, large end down. Place one primer in primer cup and proceed as outlined in loader operating procedure. Be sure operating lever is all the way down against stop when charging powder. When you drop powder into case, primer is automatically placed in cup for next case to be loaded.

*Cannot be made for 410 ga. because of small inside diameter of case.

The Pacific Gun Sight Company cannot assume any liability for damage which may result from the use of the DL 100 Loader or from information given herein. This is necessary because Pacific Gun Sight Co. has no control over the manner in which shells are loaded or components used in the loading operation.



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