

# Instructions

▲ Keep this sheet for your records.

## Repair for Nel-Spot Tree Marking Guns

**No. 55833**  
Nel-Spot Tree Marking Gun

**No. 55909**  
Nel-Spot Dura-Built Tree Marking Gun

### Tech Support

800-430-5566

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### Sales

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Nelson has taken many steps towards easy maintenance with these tree marking guns. Replacement of most parts is easy with features such as a two-piece piston rod which permits repair of other parts without the removal of the piston rod from the gun and the cup leathers from the cylinder. The reversible .021" diameter nozzle clears the gun when it gets plugged – just reverse the nozzle and pull the trigger. The nozzle cap keeps dirt out, stops paint drip, and prevents dry-in when gun is idle.

If your Nel-Spot Marking Gun does not function properly, check the following items in the order given (See Diagram on Page 2 for parts references.):

1. If the trigger does not move or is suddenly very difficult to pull, it is likely the reversible nozzle is plugged. Reverse the nozzle and pull trigger. This will usually unclog the nozzle. The cleaning wire on the Nozzle Cap Assembly (Ref. 1) can be used to dislodge dried paint or other tight foreign matter.
2. Inspect the Intake Valve (Ref. 20) to see that the Steel Ball (Ref. 21) can move freely and seats properly in hole at base of Intake Valve. A broken Intake Valve Spring (Ref. 22) can be replaced after unscrewing Intake Valve from Cylinder. Insert the small end of the Spring against the Steel Ball and turn Spring until the large end is completely under the shoulder of the intake valve.
3. If the gun has not been used for some time, the Cup Leathers (Ref. 18) may have dried. Often this can be corrected by squirting lubricating oil into the hole at the top of the Cylinder and through the Intake Valve. Pull the trigger several times to work oil into Cup Leathers.  
If the gun still does not pump, the cup leathers should be removed and softened by kneading with lubricating oil. Badly worn, nicked or extremely hard cup leathers should be replaced.
4. To remove or replace cup leathers, unscrew Intake Valve from Cylinder. Remove Cotter Pin (Ref. 26) to release tension on the Spring (Ref. 14). Grasp knurled portion of the Piston Rod and unscrew the Lower Piston

Rod (Ref. 13). The Lower Piston Rod complete with cup leathers can be removed from Cylinder. Note carefully the manner in which cup leathers and cup leather washers are assembled before removing parts from piston rod.

To reassemble, screw lower piston rod in place and replace spring and cotter pin to hold piston rod in place. Place one Cup Leather Washer (Ref. 16) on Piston Rod. Insert one Cup Leather (Ref. 18) with cup facing top of gun followed by the second cup leather with cup facing bottom of gun. Use extreme caution to avoid nicking or turning over the edges of cup leathers. The Nel-Spot Gun will not operate efficiently with damaged cup leathers. Replace remaining cup leather washer, the Lock Washer (Ref. 23) and the Hex Nut (Ref. 19). Pull the Trigger to ensure the assembly moves freely and replace intake valve on cylinder.

5. If gun leaks an excessive amount of paint through handle, check the O-Ring (Ref. 31) and Retainer (Ref. 30) which should hold the Spacer Disc (Ref. 9) tightly against the Gun Body. Be sure there is a Gasket (Ref. 10) between the Adapter (Ref. 28) and the Gun Body and that the Adapter is tightened.  
To replace O-Ring, unscrew Lower Piston Rod as described above, but do not remove cup leather from Cylinder if not necessary to soften or replace them. Unscrew Cylinder (Ref. 17) from Fluid Tube (Ref. 29). Slide retainer off Fluid Tube, replace O-Ring and Retainer and reassemble Cylinder and Piston Rod.
6. If gun leaks between Tube (Ref. 4) and Gun Body, the Gasket (Ref. 34) is damaged or missing. Do not attempt to stop leakage by over-tightening as this can strip the threads in the Gun Body.
7. If gun only functions when loosened from the paint can, then it most likely is the result of the Adapter Gasket (Ref. 27) being excessively worn or missing. This causes the Intake Valve Assembly (Ref. 20) to seal itself against the bottom of the can. Replace or add a new Adapter Gasket to alleviate the problem.

# Replacement Parts Diagram

55834	1	Nozzle Cap
55835	2	1 piece Reversible Nozzle, .021" (nickel finish)
55878	2	1 piece Reversible Nozzle, .029" (brass finish)
55836	3	Retaining Sleeve
55837	4	Extension Tube, 3"
55838	5	Nozzle Cap Holder
55839	6	Trigger Link
55879	7a	Trigger Link Pin
55880	7b	Retainer Ring (2 req.)
55903	9	Spacer Disc. Assembly
55860	10	Gasket
55906	12	Upper Piston Rod
55846	13	Lower Piston Rod
55847	14	Spring
55848	15	Piston Rod Washer
55849	16	Washer
55850	17	Cylinder
55851	18	Cup Leather
55852	19	Hex Nut
55853	20	Intake Valve Assembly
55854	21	Intake Valve Steel Ball
55855	22	Intake Valve Spring
55730	23	Lock Washer
55857	24	Washer
55790	25	Steel Ball
55859	26	Cotter Pin
55907	29	Fluid Tube
55863	30	Retainer
55864	31	O-Ring
55865	32	Trigger
55881	33a	Trigger Pin
55882	33b	Snap Ring (2 req.)
55867	34	Gasket

