

PROBLEM: Trap throws large percentage of broken targets.

CORRECTION:

- A. Check targets being loaded into magazine for cracks or breaks. Instruct people handling cartons of targets of the necessity of careful handling.
- B. Check to be sure pick up birds are not being used.
- C. Check to be sure target is not hitting opening in house or target chute.
- D. Check position of target feed shelf (V203W). When carrier is in cocked (rear) position, the feed shelf should be flush or slightly below level of carrier plate (V28).

NOTE: See item "G" under Trap Throws Continuous Broken Targets for detail on target feed shelf adjustment.

- E. Check for badly worn carrier rail assembly (V32W). A worn carrier rail (V32W) may be reversed for further use.

TARGET FLIGHT AND FLIGHT ADJUSTMENT, SKEET

The distance and height of targets (at target crossing point) are the same for both high and low house.

The target crossing point is a point 18 feet out from station 8 and in line with station 4 and 8. This crossing point should be marked with a short stake or pipe.

1. Target flight.

- A. The height and direction of target should be within 3 feet horizontally or vertically, of a point 15 feet above the target crossing point.
- B. The target, in still air, should carry to a distance equivalent, on level ground, to 55 yards from trap house and not exceed 65 yards.

2. Target flight adjustments.

- A. With suitable setting pole (usually a piece of 2" x 3" cut or marked to correct length) held vertically at crossing point, throw target and note direction of flight. Correct flight direction is obtained by loosening bolts that hold trap to plank and turning trap right or left. Be sure bolts are retightened before throwing additional targets. Master switch should be off and carrier in fired position before making this adjustment.
- B. The correct height (15 feet above target crossing point) is obtained by turning elevation adjusting crank (V139) at rear of trap.

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- C. The correct distance is obtained by turning the main spring adjusting screw (X42) at front of trap. Turn clockwise to increase distance, counter clockwise to shorten distance. Be sure master switch is off and carrier in fired position before making this adjustment.
- D. If targets lean or curve to the right, loosen the screws at each end of carrier rail assembly (V32W), move outer end of rail about 1/8" toward leading edge of carrier, and re-tighten screws while supporting carrier with one hand to prevent springing. If targets lean or curve to the left, move rail in opposite direction. Recheck direction of target flight and correct if necessary.
- E. If considerable variation is noted in direction of target flight, check for worn rubber on carrier rail assembly (V32W). A worn carrier rail may be reversed for further use. Also check for excessive movement of target when carrier is cocked and target in position to be thrown. Excessive movement may be reduced by moving target stop finger (V215) closer to carrier. To do this, turn off main switch and release carrier, loosen bolts in stop bracket (V216W), and swivel bracket so that stop finger (V215) will be closer to the carrier when carrier is in cocked position.

NOTE: Target must have some play for proper operation.

OILING (See Page 19 for Illustrations.)

- A. At time of installation, gear housing (V3W) was filled with one quart of automatic transmission fluid, type A. Each three months, check oil level by removing level gauge plug from raised pad on right side of housing (this is the upper plug on side of housing.)

Add automatic transmission fluid, type A (obtainable from automobile service stations) to bring oil level to this opening. Oil is added by removing filling plug (X133) from top right rear corner of housing and pouring in. This fluid is compounded for year-round use and should not require changing. However, drain plugs are provided on lower right side of gear housing, for use in event housing is to be drained for repairs. Use care to prevent entrance of dirt when any of these plugs are removed.

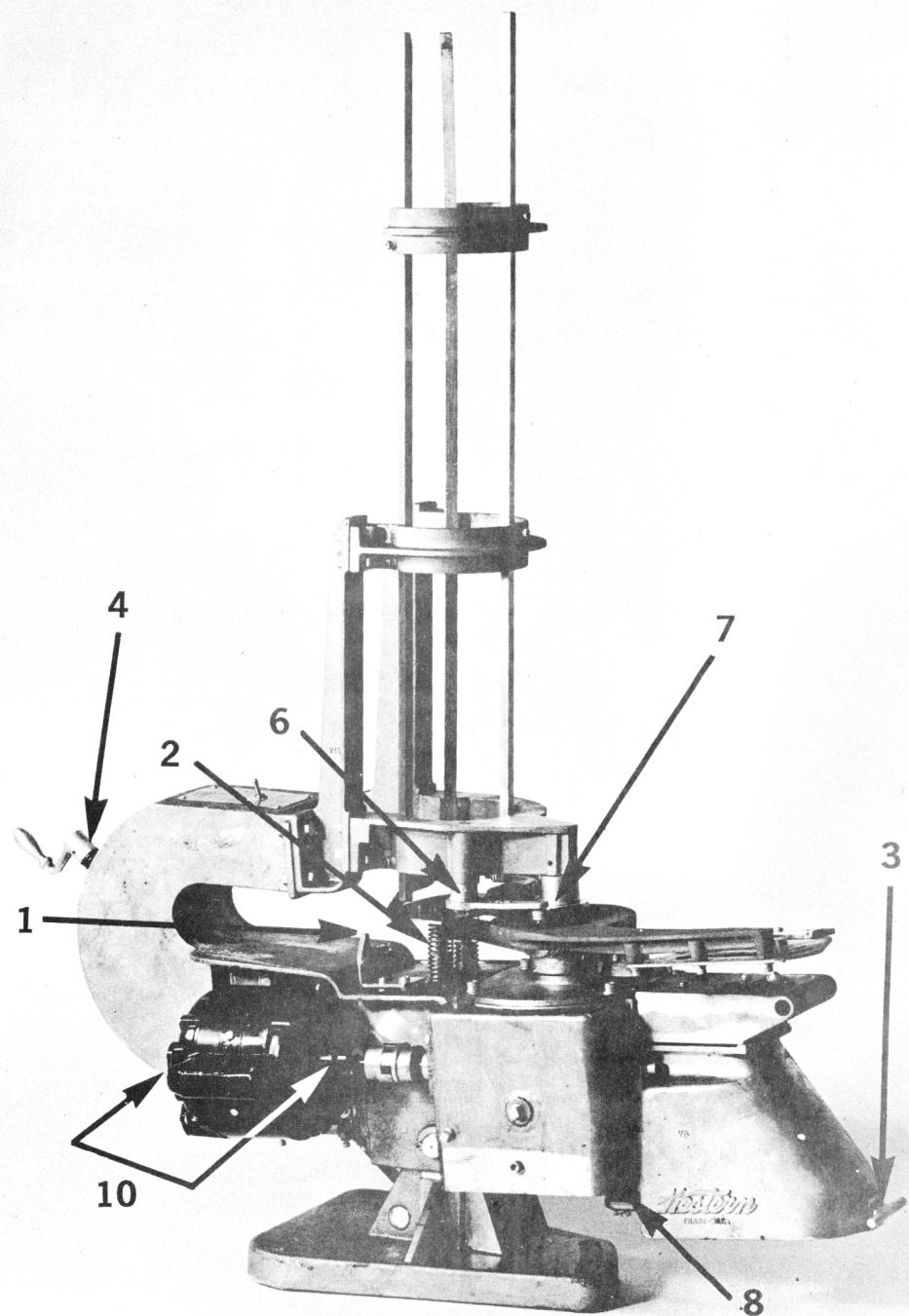
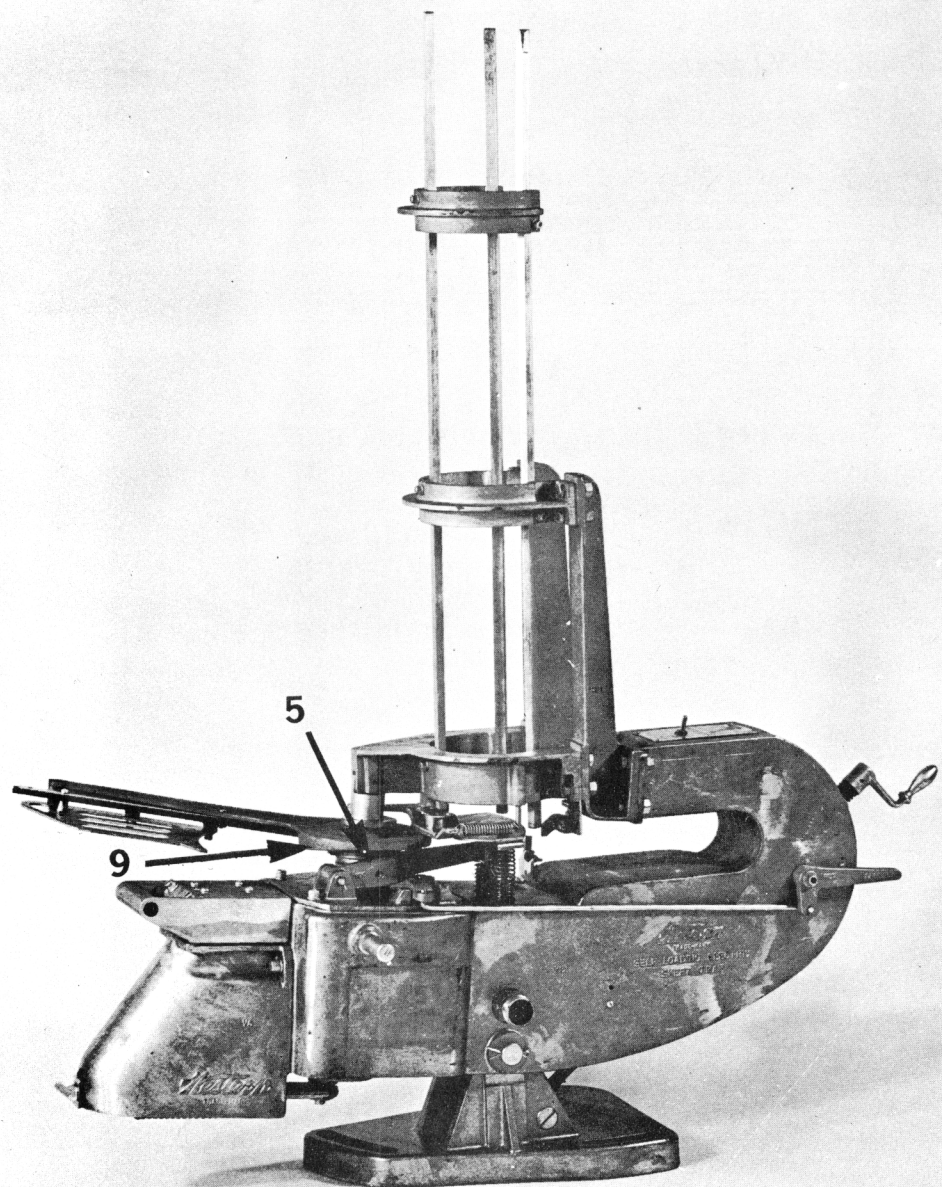
- B. Periodically (with constant use once a month) squirt a few drops of oil on the following:
1. On the tip of target stop finger (V215).
 2. On the feed shelf guide rods (V198). These are the two rods under target feed shelf (V203W).
 3. On the socket in main spring housing (V5) just above the swivel (X43).

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4. On the rear threaded end of elevation adjusting screw (V137W) and where the hub of crank (V139), or spring, bears on the hexagon bushing at upper end.
5. On the target feed roll assembly (V192W) of target feed arm assembly (V190W).
6. On the pivot bearing of escapement lever assembly (V50W).
7. On the target escapement cam (V46).
8. On the bearing at rear end of main spring (V40W).
9. A little cup grease should be applied to the bottom surface of target feed cam assembly (V207AW).
10. Once each year (or each 2,000 hours of operation) add 30 to 70 drops of No. 20 SAE motor oil to oil cups on motor.

NOTE: When oiling, do not use an excessive amount of oil, as it will collect dust and dirt from targets. Oil sparingly and wipe off excess. Under certain very dusty or sand conditions, it may be advisable to use a dry lubricant in place of oil.

OILING SEE PAGES 17 AND 18



WESTERN SELF-LOADING ELECTRIC SKEET TRAP V1574A

<u>Cat. No.</u>	<u>Name</u>	<u>Cat. No.</u>	<u>Name</u>
V1	Base	V17	Rear Magazine Guide Rail
V2W	Frame Assembly	V18	Front Magazine Guide Rail
V3W	Gear Housing Assembly	V19W	Magazine Guide Rail Screws (Set of 3)
V4W	Gear Housing Cover and Feed Cam Assembly	V23W	Magazine Stabilizer Assembly
V5	Mainspring Housing	V24	Magazine Stabilizer Spring
V6	Solenoid Housing	V27	Carrier Arm
V7	Cocking Pawl	V28	Carrier Plate
V8	Hold-back Pawl	V28W	Carrier Assembly Complete (not shown but including items V27, V28, V29W, V32W, V34 and V35W)
V9W	Control Cam Assembly	V29W	Carrier Plate Screws (Set of 3)
V10W	Sear Assembly	V32W	Carrier Rail Assembly
V11W	Trigger Arm Assembly	V34	Carrier Rail Support
V13R	Magazine Support, Right Hand	V35W	Rail Nut Anchor with Set of Carrier Rail Bolts
V13L	Magazine Support, Left Hand	V36W	Trap grounding bolt (not shown)
V14W	Lower Magazine Bracket Assembly		
V15	Intermediate Magazine Bracket		
V16	Upper Magazine Bracket		