

Remington

BOLT ACTION REPEATER

"MATCHMASTER" TARGET RIFLE

MODEL 513T



Interchangeable Box Magazine

22 Caliber Long Rifle Only

Complete with Sling Strap • Adjustable Front Swivel

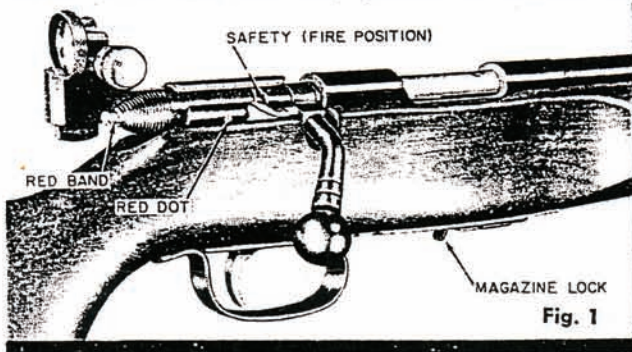
INSTRUCTION FOLDER and PARTS PRICE LIST

Your Remington Model 513T "Matchmaster" is a quality target rifle specially proportioned for steady holding and accurate sighting. This rifle is shipped from factory with bolt and micrometer sight removed from rifle and packaged separately in same carton.

TO PUT BOLT IN RIFLE — Bolt must be cocked (RED band marker at rear of bolt showing). Push safety forward, pull trigger and hold back. Push bolt into rifle. NOTE: Bolt will uncock if handle is lowered while holding back on trigger (with safety forward).

TO ASSEMBLE MICROMETER SIGHT — Mount micrometer sight to extension base on left side of receiver at rear. Sight may be assembled to either of two (2) holes on base. Turn knurled screw into either hole position and tighten sight to base. Micrometer sight has positive, quarter-minute click adjustments. The elevating staff is scaled in minutes of angle on one side. Opposite side is blank for your own elevation or range markings. Front sight is globe type, and provided with additional inserts of various aperture sizes and shapes. Inserts are held firmly in place by a knurled locking sleeve. Sleeve may be turned to loosen insert when changing apertures.

SIDE LEVER SAFETY (Fig. 1) A thumb operated safety is located to rear of bolt handle. This side lever can be rotated to ON SAFE (rear stop position) or forward, to FIRE (front stop position).



ON SAFE position — safety in rearward position. Trigger cannot be pulled to fire. RED dot firing indicator on side of receiver will be covered by safety.

FIRE position — Safety in forward position. RED dot firing indicator will then be uncovered and visible. Trigger can then be pulled to fire. CAUTION: Before firing, make sure barrel is clean and free of heavy oil, grease or any obstruction.

TO FIRE AND EJECT — Be sure rifle is pointed where you want to shoot. Raise bolt handle to unlock and pull bolt rearward to open and eject fired case. For repeat firing, simply close action. This will load next cartridge into chamber of barrel.

TO SINGLE LOAD — Push safety ON SAFE. Unlock and

open action. Load cartridge directly into barrel. Slide bolt forward to close action and chamber cartridge. Lower bolt handle to lock cartridge into barrel. Rifle is then cocked and loaded for firing.

TO LOAD MAGAZINE — Push safety ON SAFE. Box magazine may be removed by pushing rearward on magazine lock (Fig. 1), and dropping box from bottom of rifle. Box may be loaded to magazine limit with six (6) cartridges. Replace magazine to rifle, pushing upward until locked in rifle by snap of magazine lock.

TO UNLOAD MAGAZINE — Push safety ON SAFE. Box magazine can be unloaded easily after removing from rifle.

TO UNLOAD CHAMBER — Push safety ON SAFE. Raise bolt handle, open action to extract cartridge from barrel, then remove cartridge.

TRIGGER PULL — Overtravel is controlled by adjusting trigger cushion spring attached to receiver at bottom, forward of trigger (see Sectional View). Remove stock by loosening takedown screw (see Sectional View). With rifle in fired condition (bolt uncocked), tighten rear trigger cushion spring adjusting screw. Turn until screw just touches trigger. Then when rifle is fired rear screw will limit overtravel as trigger is pulled.

WEIGHT OF PULL — Adjusted by turning front trigger cushion spring adjusting screw. Tighten or turn inward for heavier pull. To lighten or reduce pull weight, turn front screw outward or counter-clockwise.

HANDLING AND EXPOSURE CARE — Handling leaves invisible prints of moisture that can cause rust to metal parts. Wipe receiver and barrel with oil after handling. Abrupt changes in temperature cause condensation and moisture; therefore special care to interior metal parts is needed to prevent rusting.

BARREL CLEANING AND CARE — Remove bolt. Wipe bore with 22 caliber cleaning patch. Important: Clean bore from breech to muzzle. This will prevent shooting residue from falling into action and lessen possible cleaning rod wear at muzzle. Wire brush, if necessary, with powder solvent. Make certain cartridge chamber in barrel is thoroughly clean. Use lightly oiled cloth in barrel after cleaning.

ACTION CLEANING AND CARE — Should it be necessary to clean action or bolt, loosen takedown screw and remove stock. Pull bolt from rifle. Wash action and bolt with a petroleum solvent such as kerosene. Wipe clean and re-oil lightly. Cocking cam on bolt should be kept lubricated. When shooting in freezing weather remove excess oil and use dry graphite as lubricant.

TO PULL BOLT FROM RIFLE — Lift bolt handle, slide bolt back to open action. Loosen and raise micrometer sight enough to clear bolt handle. Push safety forward to FIRE position. Hold trigger back and pull bolt from rifle.

TO COCK BOLT — Should bolt become uncocked while removed from rifle (RED band at rear not showing), bolt must be recocked before putting in rifle. To do this, push bolt into rifle as far as possible. With bolt handle on right side, lift bolt handle. This will rotate handle section enough to cock bolt (RED band marker will show at rear).



MODEL
513T

**"MATCHMASTER" Bolt Action Rifle
22 Caliber Repeater**

ALWAYS ORDER BY PART NAME AND PART NUMBER

Part No.	NAME OF PART	List Price	Part No.	NAME OF PART	List Price
230	Barrel		228	Receiver Plug Screw SA Grade (discontinued) (not shown)	
401	Barrel, SA Grade (discontinued) (not shown)		75	Receiver Insert, Front	
2	Barrel Lock Pin		595	Receiver Insert, Rear	
231	Barrel Plug Screw		564	Receiver Sight Disc (Redfield No. 75RT) (not shown)	
22820	Bolt		499	Safety	
816	Bolt Assembly (includes Bolt, Bolt Handle Assembly, Bolt Sleeve, Bolt Sleeve Pin, Extractor, Left; Extractor, Right; Extractor Pin (2), Extractor Spring, Firing Pin Assembly, Firing Pin Cam Pin, Main Spring, Main Spring Plunger, Safety Indicator) (not shown)		128	Safety Indicator	
297	Bolt Handle Assembly (includes Bolt Handle, Cocking Cam)		251	Safety Lever	
6	Bolt Sleeve		252	Safety Screw	
17922	Bolt Sleeve Pin		83	Sear	
308	Butt Plate		84	Sear Pivot Screw	
25410	Butt Plate Screw		86	Sear Stud	
330	Ejector		20070	Sling Strap Assembly (1-1/4 in.)	
331	Ejector Screw		20215	Sling Strap Assembly, (1 in.) SA Grade, (discontinued) (not shown)	
32	Extractor, Left		25573	Sling Strap Assembly and Mountings, Complete (1-1/4 in) (not shown)	
34	Extractor, Right		21305	Stock Assembly, Complete (includes stock, Butt Plate, Butt Plate Screw (2), Front Swivel Assembly, Front Swivel Base, Front Swivel Base Screw (2), Front Swivel Screw, Magazine Guide Plate, Magazine Guide Plate Screw, Rear Swivel Assembly, Take Down Screw, Take Down Screw Escutcheon, Trigger Guard, Trigger Guard Screw (2)	
17571	Extractor Pin		21295	Stock Assembly, Complete, SA Grade (discontinued) (includes Stock, Butt Plate, Butt Plate Screw (2), Stock Swivel Assembly, Front and Rear; Magazine Guide Plate, Magazine Guide Plate Screw, Magazine Lock, Magazine Lock Screw, Take Down Screw, Take Down Screw Escutcheon, Trigger Guard, Trigger Guard Screw (2) (not shown)	
26465	Firing Pin Assembly (includes Firing Pin, Firing Pin Point)		20895	Stock Swivel Assembly, Front or Rear, (1 in.) SA Grade, (discontinued) (not shown) each	
17934	Firing Pin Cam Pin		393	Take Down Screw	
343	Front Sight, (Redfield Globe No. 68)		17569	Take Down Screw Escutcheon	
18669	Front Sight Insert, (7) (Redfield Globe No. 68) (not shown)		29	Trigger	
522	Front Sight Ramp, SA Grade (discontinued) (not shown)		892	Trigger Assembly (includes Trigger, Sear, Sear Stud) (not shown)	
130	Front Sight Ramp Screw, SA Grade (discontinued) (not shown)		822	Trigger Assembly, Complete (includes Trigger Assembly, Trigger Take-up Pin, Trigger Take-up Spring) (not shown)	
5	Front Swivel Assembly, 1-1/4 in. (includes Front Swivel, Front Swivel Collar)		491	Trigger Cushion Spring	
232	Front Swivel Base		493	Trigger Cushion Spring Adjusting Screw	
233	Front Swivel Base Screw		492	Trigger Cushion Spring Screw	
113	Front Swivel Screw		19474	Trigger Guard	
1010	Magazine Assembly, Complete, 6-shot (includes Magazine, Magazine Bottom, Magazine Follower, Magazine Spring)		17577	Trigger Guard Screw	
2170	Magazine Assembly, Complete, 10-shot (not shown)		98	Trigger Pin	
2105	Magazine Guide Plate		16360	Trigger Spring	
17577	Magazine Guide Plate Screw		438	Trigger Spring Plunger	
596	Magazine Lock (wood fit)		12	Trigger Take-up Pin	
107	Magazine Lock (old style) (not shown)		25	Trigger Take-up Spring	
19636	Magazine Lock Screw (wood fit)				
22250	Magazine Lock Screw (old style) (not shown)				
19809	Main Spring				
58	Main Spring Plunger				
115	Rear Micrometer Sight, Complete (Redfield No. 75 RT)				
548	Rear Sight, SA Grade (discontinued) (Marble No. 63) (not shown)				
22560	Rear Swivel Screw Assembly, 1-1/4 in. (includes Rear Swivel, Rear Swivel Screw Pin, Rear Screw, Rear)				
371	Receiver				

SPECIAL PARTS (Not Shown)

18418	Telescope Base, Front
19604	Telescope Base, Rear
18417	Telescope Base Screw, Front
19605	Telescope Base Screw, Rear

Send all guns for factory service and inquiries on service and parts to
REMINGTON ARMS COMPANY, INC.
Arms Service Division
Ilion, New York.

All other inquiries are to be addressed to
REMINGTON ARMS COMPANY, INC.
Bridgeport 2, Connecticut

Pull trigger and hold back. Lower bolt handle. Firing pin will then release forward in bolt and uncock ritle. RED band marker at rear of bolt will not show.

TARGET ADJUSTMENT (Fig. 2) — The Remington 513T can be adjusted on target with micrometer sight. Graduated dial heads have adjusting clicks at each dial marking. Each click equals $1/16$ inch at 25 yards, $1/8$ inch at 50 yards, $1/4$ inch at 100 yards.

ELEVATION — Adjustment is made with vertical micrometer screw on top of sight. Zero graduation is set by loosening two small screws on left side, moving staff, and tightening screws.

WINDAGE — Adjustment is made with horizontal micrometer screw on right side of sight. Zero graduation is set by loosening small screw in front of Vernier slide, moving slide, and tightening screw. Some additional windage adjustment may be made by moving front sight in dovetail slot.

FRONT SWIVEL — Position can be changed to any of six holes in swivel base.

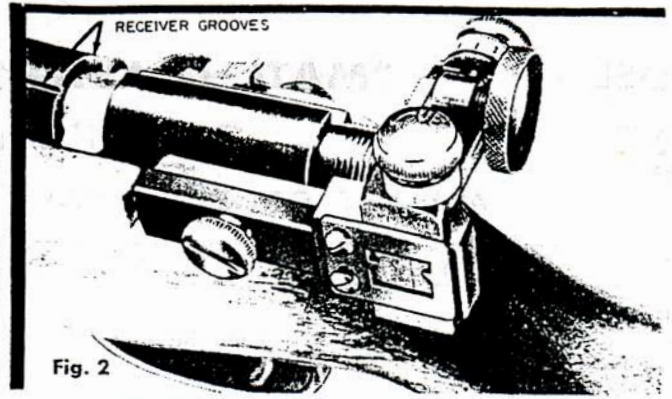


Fig. 2

RECEIVER GROOVES — The receiver is designed with two dove-tail grooves cut along top panel for receiver mount. A receiver type mount may be easily slipped into the receiver grooves and tightened in desired position.