

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

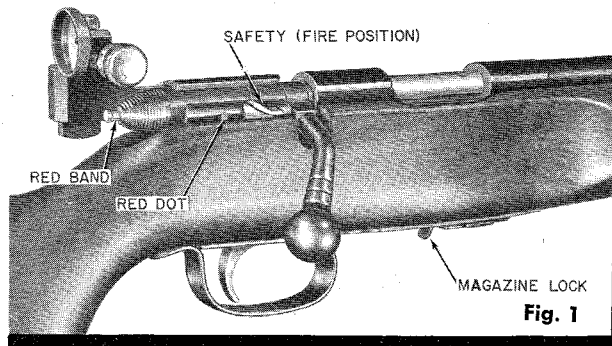
Your Remington Model 513T "Matchmaster" is a quality target rifle specially proportioned for steady holding and accurate sighting. This rifle is shipped from factory with bolt and micrometer sight removed from rifle and packaged separately in same carton.

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.

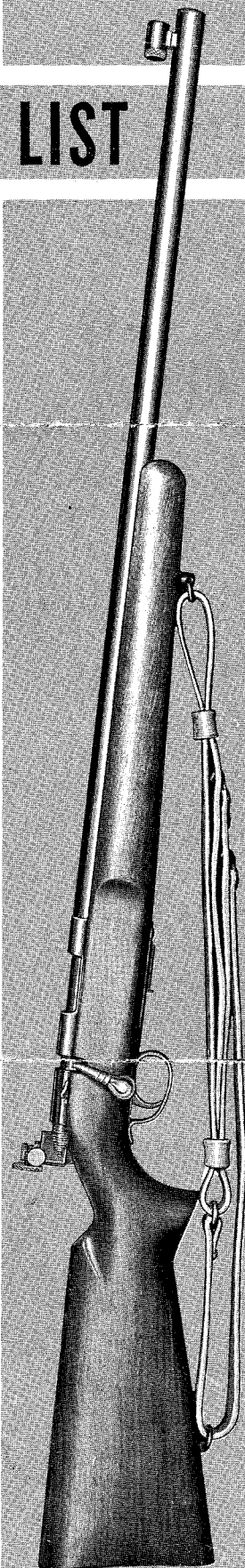
TO PULL BOLT FROM RIFLE — Lift bolt handle, slide bolt back to open action. Loosen and raise micrometer sight enough to clear bolt handle. Push safety forward to FIRE position. Hold trigger back and pull bolt from rifle.

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).

REMINGTON ARMS COMPANY, INC.

ILION, NEW YORK

RF-17



MODEL

"MATCHMASTER" Bolt Action Rifle

513T

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	\$13.20	228	Receiver Plug Screw SA Grade (discontinued) (not shown)	\$.25
401	Barrel, SA Grade (discontinued) (not shown)	12.10	75	Receiver Insert, Front	1.00
2	Barrel Lock Pin	.25	595	Receiver Insert, Rear	.70
231	Barrel Plug Screw	.25	564	Receiver Sight Disc (Redfield No. 75RT) (not shown)	.75
22820	Bolt	3.00	499	Safety	.45
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)	8.25	128	Safety Indicator	.25
297	Bolt Handle Assembly (includes Bolt Handle, Cocking Cam)	2.20	251	Safety Lever	.25
6	Bolt Sleeve	.70	252	Safety Screw	.25
17922	Bolt Sleeve Pin	.25	83	Sear	.90
308	Butt Plate	1.40	84	Sear Pivot Screw	.25
25410	Butt Plate Screw	.25	86	Sear Stud	.70
330	Ejector	.40	20070	Sling Strap Assembly (1-1/4 in.)	3.90
331	Ejector Screw	.25	20215	Sling Strap Assembly, (1 in.) SA Grade, (discontinued) (not shown)	3.05
32	Extractor, Left	.45	25573	Sling Strap Assembly and Mountings, Complete (1-1/4 in.) (not shown)	6.25
34	Extractor, Right	.45	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))	27.50
17571	Extractor Pin	.25	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)	38.50
35	Extractor Spring	.25	20895	Stock Swivel Assembly, Front or Rear, (1 in.) SA Grade, (discontinued) (not shown) each	1.10
26465	Firing Pin Assembly (includes Firing Pin, Firing Pin Point)	1.50	393	Take Down Screw	.25
17934	Firing Pin Cam Pin	.25	17569	Take Down Screw Escutcheon	.25
343	Front Sight, (Redfield Globe No. 68)	3.75	29	Trigger	1.35
18669	Front Sight Insert, (7) (Redfield Globe No. 68) (not shown)	1.00	892	Trigger Assembly (includes Trigger, Sear, Sear Stud) (not shown)	2.20
522	Front Sight Ramp, SA Grade (discontinued) (not shown)	1.65	822	Trigger Assembly, Complete (includes Trigger Assembly, Trigger Take-up Pin, Trigger Take-up Spring) (not shown)	2.40
130	Front Sight Ramp Screw, SA Grade (discontinued) (not shown)	.25	491	Trigger Cushion Spring	.70
5	Front Swivel Assembly, 1-1/4 in. (includes Front Swivel, Front Swivel Collar)	.85	493	Trigger Cushion Spring Adjusting Screw	.25
232	Front Swivel Base	1.65	492	Trigger Cushion Spring Screw	.25
233	Front Swivel Base Screw	.25	19474	Trigger Guard	.70
113	Front Swivel Screw	.25	17577	Trigger Guard Screw	.25
1010	Magazine Assembly, Complete, 6-shot (includes Magazine, Magazine Bottom, Magazine Follower, Magazine Spring)	2.40	98	Trigger Pin	.25
2170	Magazine Assembly, Complete, 10-shot (not shown)	3.10	16360	Trigger Spring	.25
2105	Magazine Guide Plate	.25	438	Trigger Spring Plunger	.25
17577	Magazine Guide Plate Screw	.25	12	Trigger Take-up Pin	.25
596	Magazine Lock (wood fit)	.25	25	Trigger Take-up Spring	.40
107	Magazine Lock (old style) (not shown)	.25	SPECIAL PARTS (Not Shown)		
19636	Magazine Lock Screw (wood fit)	.25	18418	Telescope Base, Front	.90
22250	Magazine Lock Screw (old style) (not shown)	.25	19604	Telescope Base, Rear	.85
19809	Main Spring	.25	18417	Telescope Base Screw, Front	.25
58	Main Spring Plunger	.40	19605	Telescope Base Screw, Rear	.25
115	Rear Micrometer Sight, Complete (Redfield No. 75 RT)	11.75			
548	Rear Sight, SA Grade (discontinued) (Marble No. 63) (not shown)	3.25			
22560	Rear Swivel Screw Assembly, 1-1/4 in. (includes Rear Swivel, Rear Swivel Screw Pin, Rear Screw, Rear)	1.05			
371	Receiver	5.80			

Send all guns for factory service and inquiries on service and parts to

REMINGTON ARMS COMPANY, INC.
Arms Service Division
Ilion, New York

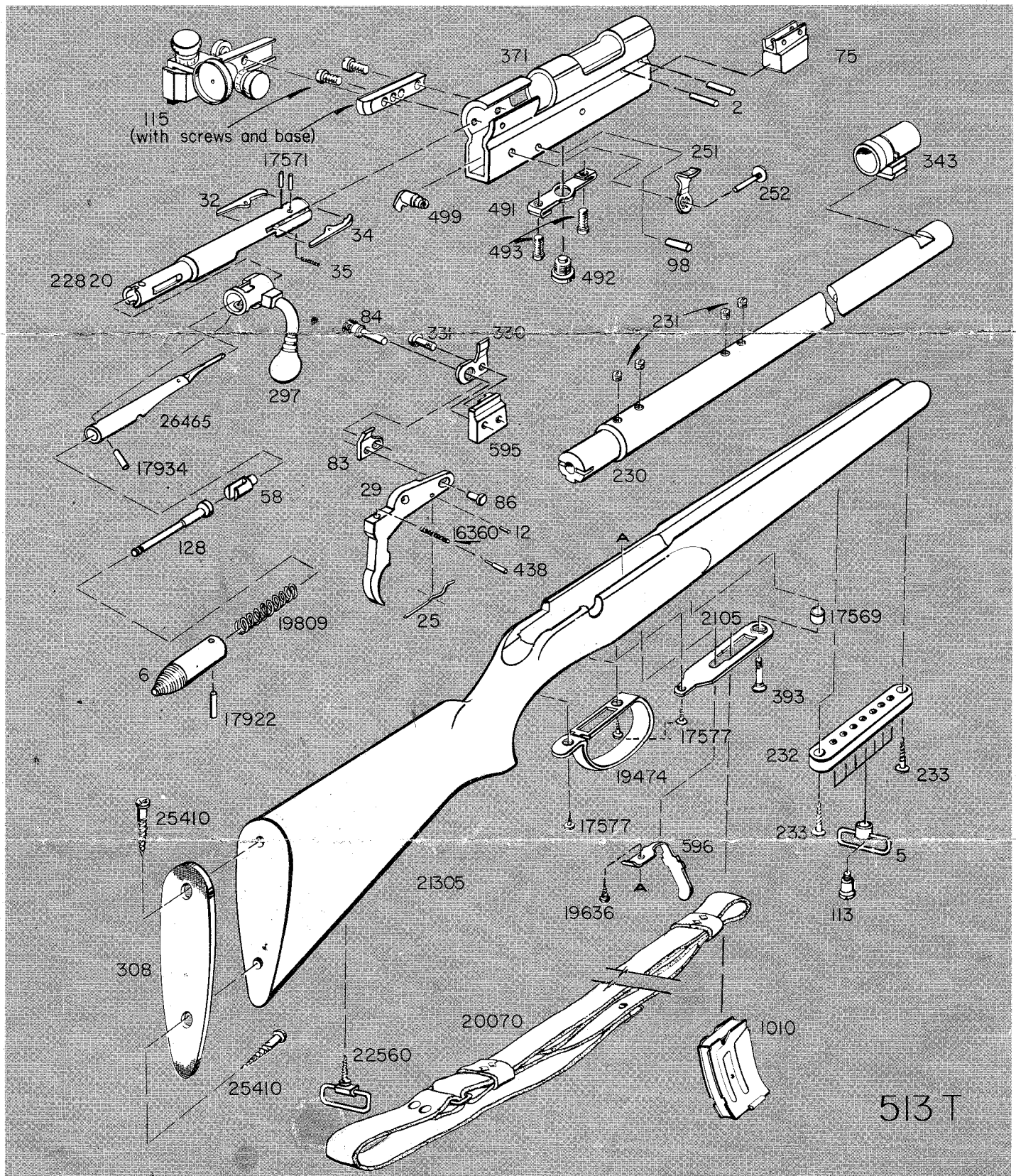
All other inquiries are to be addressed to

REMINGTON ARMS COMPANY, INC.
Bridgeport 2, Connecticut

Remington

BOLT ACTION RIFLE 22 Caliber Repeater SECTIONAL VIEW

MODEL 513T



REPLACEMENT PARTS: IDENTIFY COMPONENTS FROM SECTIONAL VIEW

NOTE: Sear Pivot Screw, Part No. 84 (see Sectional View) was assembled to full depth, backed off one-half turn and staked in place. If for part replacement, screw is removed, replace in same position and restake.

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TO UNCOCK RIFLE (Bolt) — Caution: Be sure there is NO LIVE round in chamber. Lift bolt handle. Push safety forward to FIRE position. Pull trigger and hold back. Lower bolt handle. Firing pin will then release forward in bolt and uncock rifle. 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.

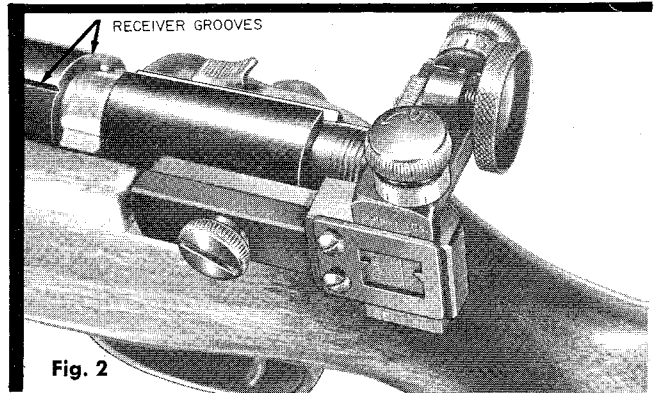


Fig. 2

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.

INSTRUCTIONS FOR ORDERING PARTS

(Please read carefully)

When ordering parts — please order by part number and part name. Give also model name and number of gun, serial number (if any), and state caliber or gauge. Please identify from the component parts, picture or section view, if available.

Cover only one subject in letter or order. Do not order spare parts and give instructions on repair of a gun or guns in the same letter — **this delays service.**

Please **do not ship sample parts** to Firearms Factory unless it is impossible to identify from the Parts Price List or Instruction Folder. See shipping instructions concerning **FACTORY SERVICE.**

We will furnish parts for discontinued models as long as the

supply is available. We are unable to supply parts for models or repair guns not listed in the Parts Price List.

All parts will be shipped as ordered, but since they are made to close dimensions, the particular part may require slight adjustment or fitting to assure proper functioning of the arm.

IMPORTANT: Do not combine Part Orders with Gun Repair Orders.

Please send Part Orders direct to:

REMINGTON ARMS COMPANY, INC.
PARTS DEPT.
ARMS SERVICE DIVISION
Ilion, New York

INSTRUCTIONS FOR FACTORY SERVICE

Please read carefully before making shipment to the Firearms Plant at ILION, NEW YORK

Please do not ship gun in a gun case, or special container that must be returned from the factory. The return of your gun or parts will be greatly speeded if properly packaged in a throw-away carton. All shipments should have forwarding and return address clearly marked on gun package as well as on attached letter.

All shipments should have forwarding and return address clearly marked on gun package as well as on attached letter. To further improve service — please attach complete letters of information securely on outside of each package returned to the factory for repairs.

Please do not return gun accessories such as sling straps, quick release swivels, special boots, covers, telescopes, mounts or any special equipment to the factory with the gun shipment.

Give full details of the contents of the shipment — state whether complete gun or part. List model name and model number, serial number (if any), and caliber or gauge.

Give full condition of contents — stock and fore-end damage (if any), metal damage (if any), barrel bent or damaged (if any), parts missing, etc. A full description will enable us to more accurately list the needed repairs.

Cover only **one subject** in letter or order. **Do not** order spare parts and give instructions on repair of a gun or guns in the same letter — **this delays service.**

THEN — to avoid all possible delay in starting work on your gun or parts, please include in your first order or letter the trouble you wish corrected, any changes you desire, or parts you wish replaced.

If an estimate is required before the work is started, please advise. Otherwise we will proceed with the necessary work and send a statement of the cost to you. In this manner we can re-ship your gun or parts at the earliest possible date.

Unless you specify otherwise, shipments will be made by way of Parcel Post on small packages, Express on larger packages.

Remington gun parts are not interchangeable with those of any other make of gun. For this reason the Remington Arms Company, Inc. cannot service any gun not of our manufacture.

We will make repairs on discontinued models as long as the supply of parts is available. However, **we cannot make repairs** for models which are **not listed** in the Parts Price List.

IMPORTANT: Before packaging guns for return to factory, **ALL LIVE AMMUNITION SHOULD BE REMOVED.**

If live ammunition is included in package, shipment cannot be made by Insured Mail. All other shipments may be made by Insured Mail, Express, Motor Transport, or Freight.

Please send repairs direct to:

REMINGTON ARMS COMPANY, INC.
ARMS SERVICE DIVISION
Ilion, New York