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REMINGTON

Arms Company, Inc.

MODEL 81 AUTOLOADING CENTERFIRE RIFLE

- **Shooting Safety Commandments**
- **Information**
- **Instructions for Operation & Care of Rifle**
- **Components Parts Listing**
- **Value and Reference Book Listing**

NOTE: We are pleased to accommodate your request for the Model 81 Autoloading Centerfire Rifle information. The following documentation represents all information available on this model from the Remington Arms Co., Inc.

DO NOT MAKE CHANGES OR ALTERATIONS TO ANY PARTS OF A FIREARM. USE ONLY REMINGTON PARTS. NEVER MAKE AN ADJUSTMENT TO THE TRIGGER, OR CHANGE THE SHAPE OR SIZE OF THE SEAR, SEAR NOTCH, OR OTHER PARTS.

Ten Commandments of Shooting Safety

1. Always keep the muzzle pointed in a safe direction.
2. Firearms should be unloaded when not in use.
3. Don't rely on your gun's "safety".
4. Be sure of your target and what is beyond it.
5. Use correct ammunition.
6. If your gun fails to fire when the trigger is pulled, handle with care!
7. Always wear eye and ear protection when shooting.
8. Be sure the barrel is clear of obstructions before shooting.
9. Do not alter or modify your gun, and have guns serviced regularly.
10. Learn the mechanical and handling characteristics of the firearm you are using.

MODEL 81

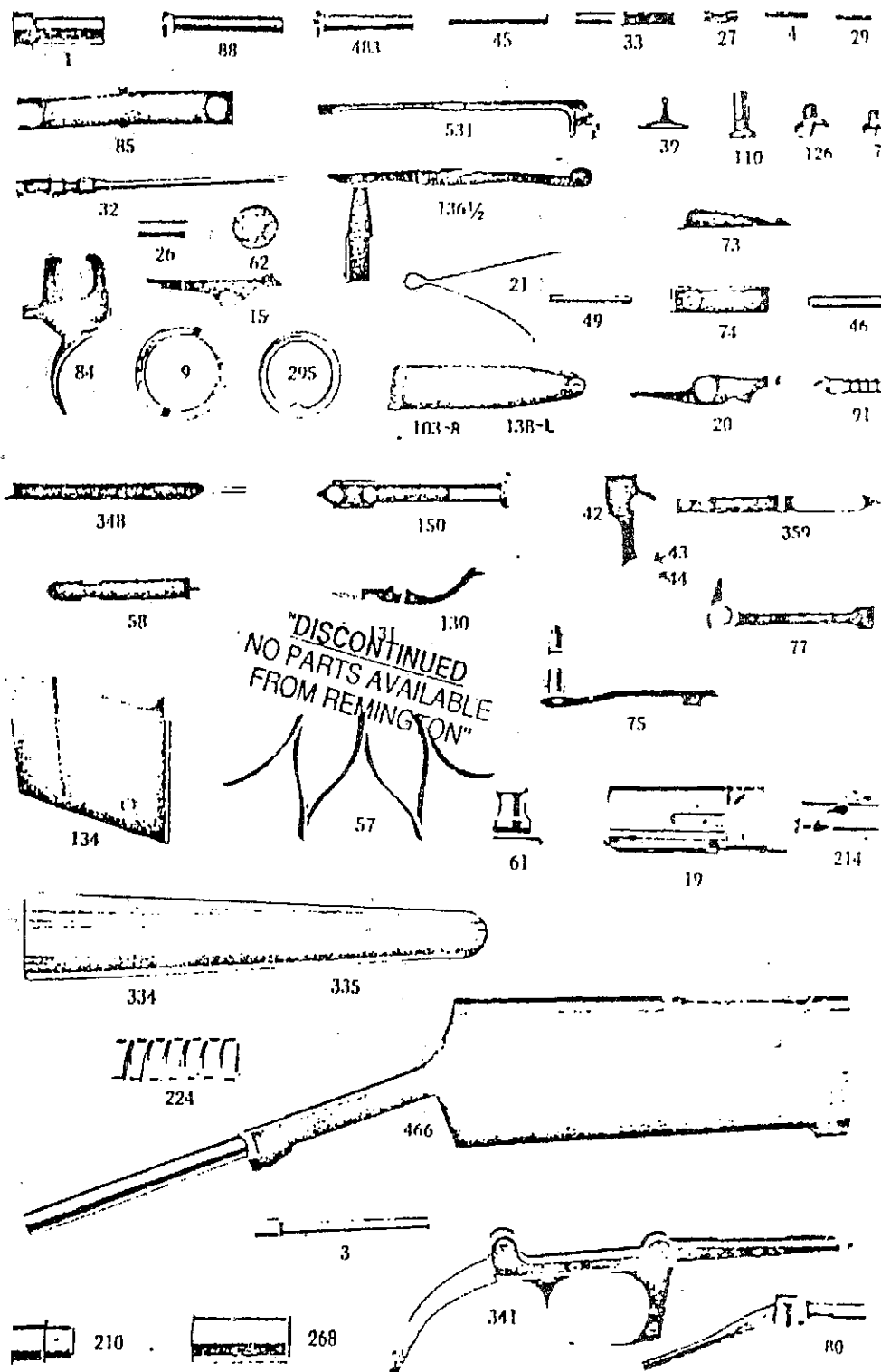
HIGH-POWER AUTOLOADING RIFLE

In ordering parts, specify model, gauge, part name and the serial number of the gun. All parts marked with an asterisk (*) must be fitted at factory or by recommended gunsmith.

Part No. List Price

92	Action Spring (state caliber)
1	Action Spring Follower
3-4	Action Spring Plug and Pin
5	Action Spring Tube
906	*Barrel (state caliber)
908	*Barrel Jacket, Grade A-B
	*Barrel Jacket, Grade D
	*Barrel Jacket, Grade E
	*Barrel Jacket, Grade F
9	Barrel Jacket Bushing
22	Barrel Jacket Plug Screw
30	Barrel Lock
12	Barrel Lock Screw
31	Barrel Lock Spring
10	Barrel Nut (state caliber)
95	Barrel Nut Washer (state caliber)
14	*Bolt (state caliber)
19	Bolt Carrier
20	Bolt Carrier Latch
10	Bolt Carrier Latch Screw
21	Bolt Carrier Latch Spring
15	Bolt Lock
18	Bolt Lock Pin
17	Bolt Lock Spring
24	Buffer Spring (state caliber)
99	Butt Plate
91	Butt Plate Screw (2) each
25	*Butt Stock, Grade A
	*Butt Stock, Grade B
	*Butt Stock, Grade D
	*Butt Stock, Grade E
	*Butt Stock, Grade F
26	Cam Pin (2) each
27	Ejector
29	Ejector Pin
28	Ejector Spring
31	Extractor (state caliber)
32	Firing Pin
33	Firing Pin Retaining Pin
10	Firing Pin Spring

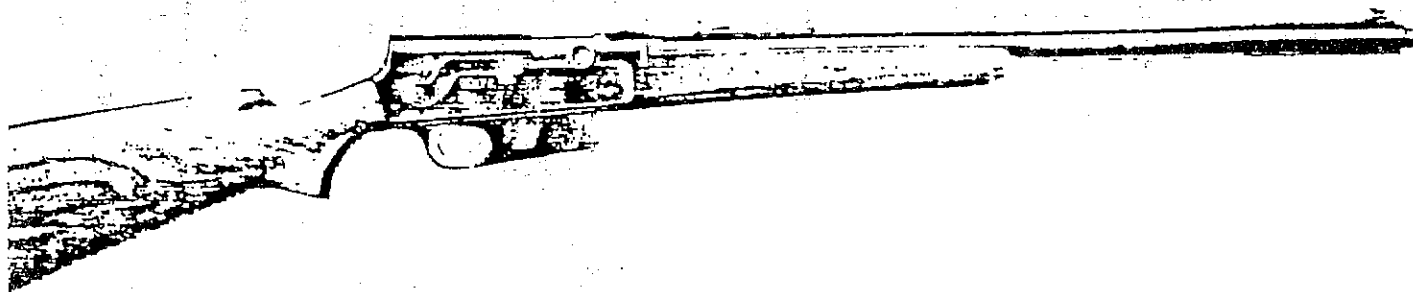
Fore-end, Grade B
Fore-end, Grade D
Fore-end, Grade E
Fore-end, Grade F
Fore-end Escutcheon
335 Fore-end Screw
39 Front Sight
42 Hammer
46 Hammer Bushing
45 Hammer Pin
43 Hammer Roll
44 Hammer Roll Pin
348 Link
49 Link Pin
134 Magazine (box)
58 Magazine Follower
138 Magazine Side Spring, left
103 Magazine Side Spring, right
57 Magazine Spring
134 1/2 Magazine Complete
59 Magazine Indicator Complete
60 Main Spring
60 Main Spring Screw
61 Operating Handle
62 Operating Handle Bushing
63 Operating Handle Plunger
64 Operating Handle Plunger Spring
65 Peep Sight Plug Screw
150 Rear Sight
150 1/2 Rear Sight Complete
151 Rear Sight Elevator Screw
72 Rear Sight Screw (2) each
73 Rear Sight Stop
74 Rear Sight Stud
466 *Receiver, Grade A-B
*Receiver, Grade D
*Receiver, Grade E
*Receiver, Grade F
267 Recoil Spring (state caliber)
268 Recoil Spring Case (state caliber)
75 Safety
77 Safety Rocker
78 Safety Rocker Stop Screw
126 Safety Screw
80 Take-Down Lever, Screw and Pin
221 Take-Down Screw Washer
483 Tang Screw
84 Trigger
87 Trigger Pin
341 *Trigger Plate, Grade A-B
*Trigger Plate, Grade D
*Trigger Plate, Grade E
*Trigger Plate, Grade F
88 Trigger Plate Screw
85 Trigger Spring



MODEL 81

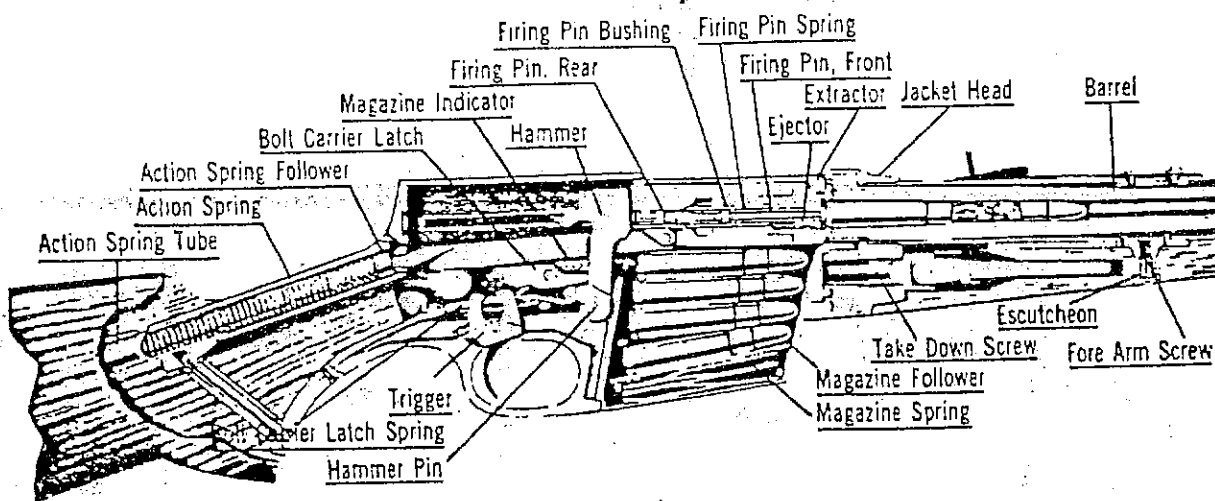
HIGH POWER AUTOLOADING RIFLE

.300 Savage, .30 Rem., .32 Rem., or .35 Rem. Caliber — Center Fire

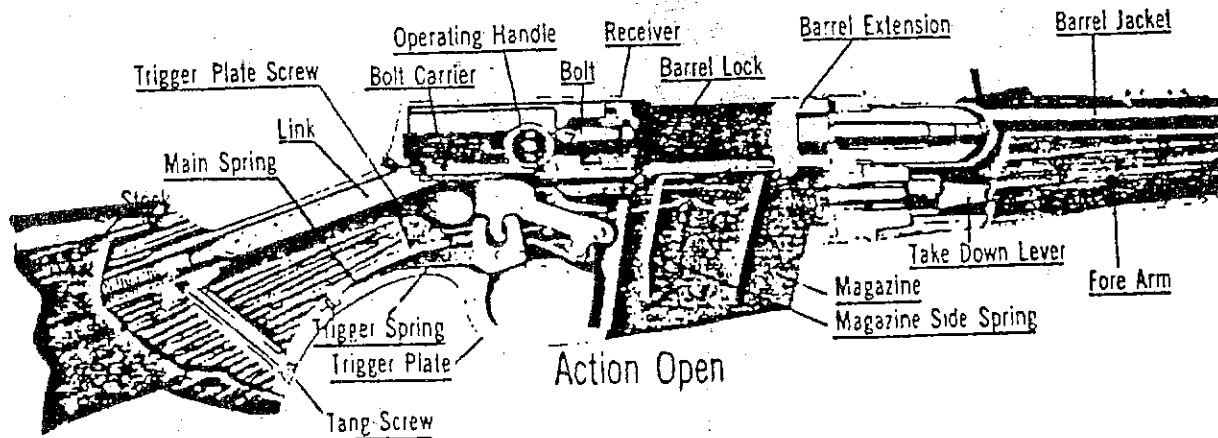


The "WOODSMaster" is everything that the name implies—truly a master of the woods for big game shooting—lightning fast, extremely powerful and amazingly accurate. The most powerful sporting rifle of autoloading type made.

Action Open

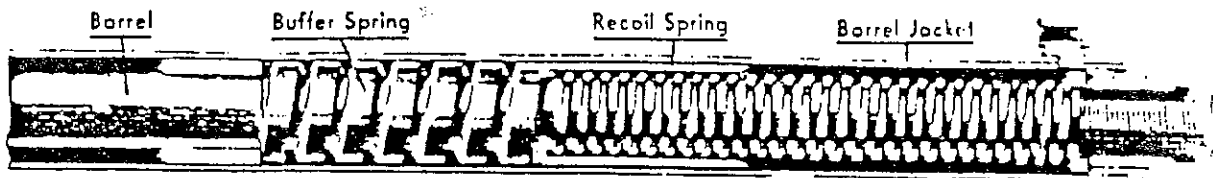


Action Closed



Action Open

Barrel Before Firing



Features to Remember

SPEED OF FIRE — Its lightning-like rapidity of fire makes it especially suitable for quick shots at running game. No other type of high power rifle can be fired as fast. This feature, coupled with the lack of any mechanical noise, makes the Model 81 an ideal big game rifle.

OPERATES WITHOUT PHYSICAL EFFORT — Operation does not depend on muscular control or physical effort, so shooter's nervousness cannot balk operation.

CONTROLLED FIRING — Under shooter's control at all times. Trigger must be pulled and released for each shot.

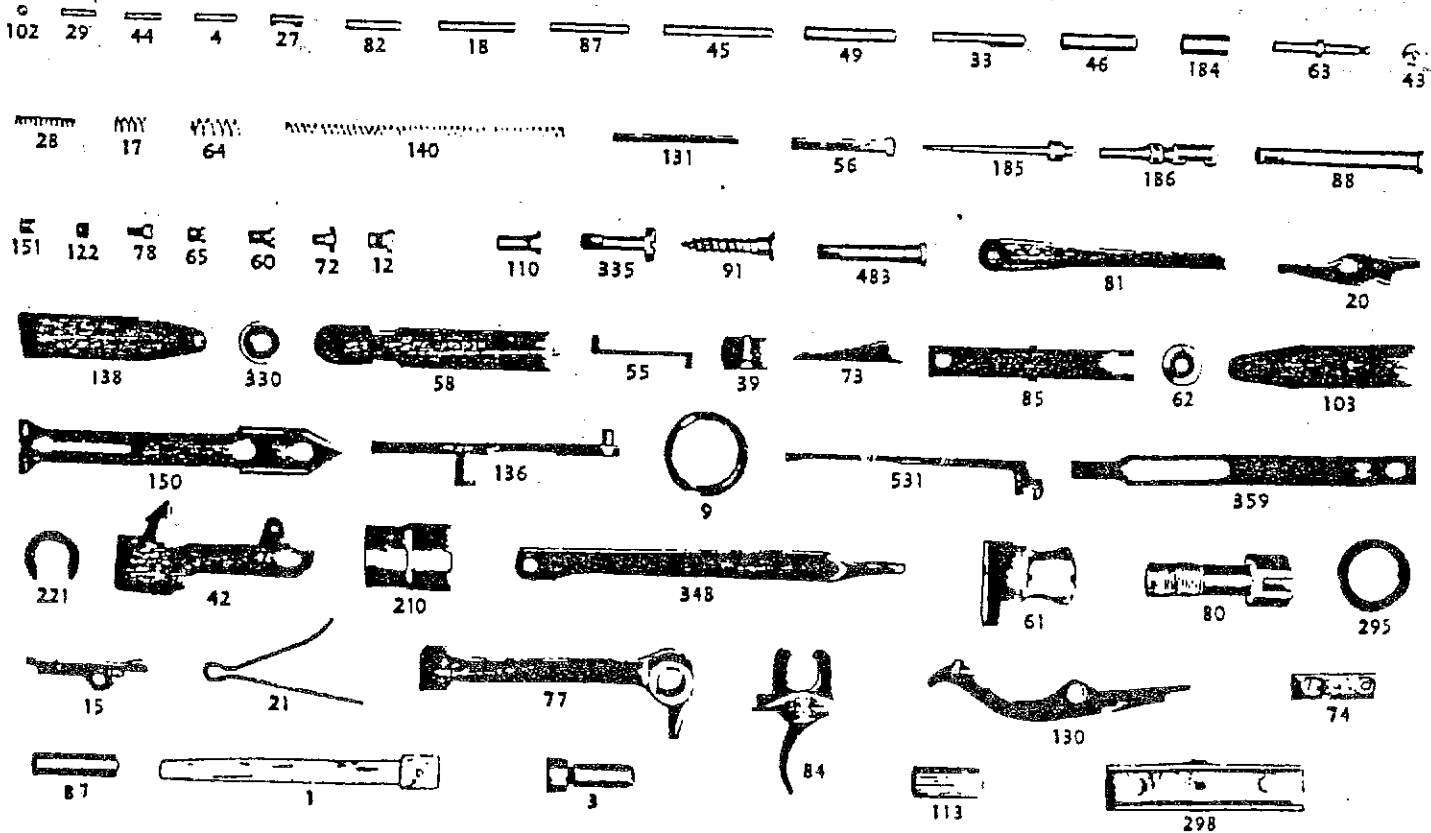
LOCKED BREECH — The only high power auto-loading rifle which positively locks cartridge in chamber until bullet has left the muzzle. Prevents loss of killing power and insures utmost safety.

DOUBLE LOCKING LUGS — An important safety feature. Bolt has two lugs which rotate and lock into a recess in barrel extension as close to the head of the cartridge as possible. This provides the utmost strength.

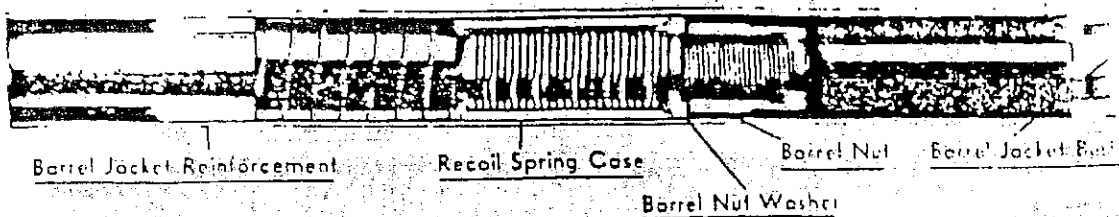
BREECH BOLT EASILY REMOVED FOR CLEANING.

Component Parts

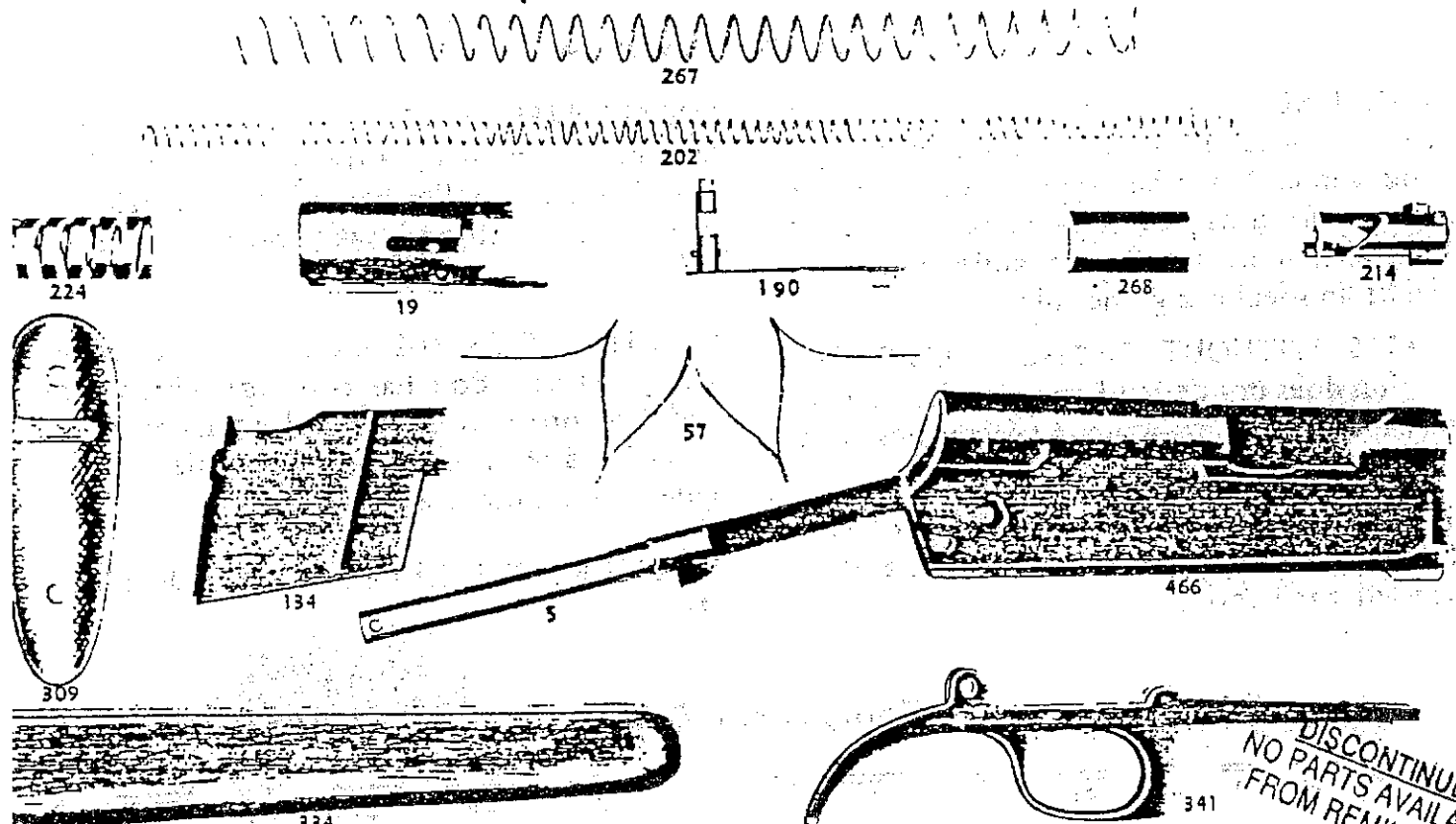
"DISCONTINUED"
NO PARTS AVAILABLE
FROM REMINGTON



Barrel After Firing



Component Parts (Continued)



**DISCONTINUED
NO PARTS AVAILABLE
FROM REMINGTON**

No.	Name of Part	Part No.	Name of Part	Part No.	Name of Part	Part No.	Name of Part
2	Action Spring (state cal.)	309	Butt Plate	49	Link Pin	150 1/2	Rear Sight Complete
1	Action Spring Follower	91	Butt Plate Screw (2)	134	Magazine (box)	151	Rear Sight Elevator Screw
3	Action Spring Plug	325	Butt Stock	58	Magazine Follower	72	Rear Sight Screw (2)
4	Action Spring Plug Pin	184	Cam Pin (2)	138	Magazine Side Spring, left	73	Rear Sight Step
5	Action Spring Tube	298	Cartridge Clip (state cal.)	103	Magazine Side Spring, right	74	Rear Sight Stud
6	Barrel (state caliber)	27	Ejector		466	Receiver	
8	Barrel Jacket	29	Ejector Pin	57	Magazine Spring	267	Recoil Spring (state caliber)
9	Barrel Jacket Bushing	28	Ejector Spring	134 1/2	Magazine Complete	268	Recoil Spring Case (state cal.)
22	Barrel Jacket Plug Screw	531	Extractor (state caliber)	55	Magazine Indicator	75	Safety
30	Barrel Lock	187	Firing Pin Bushing		Thumb Piece	102	Safety Detent Ball
12	Barrel Lock Screw	185	Firing Pin, Front	136 1/2	Magazine Indicator Complete	77	Safety Rocker
51	Barrel Lock Spring	186	Firing Pin, Rear	56	Magazine Indicator Spring	78	Safety Rocker Stop Screw
10	Barrel Nut (state caliber)	33	Firing Pin, Retaining Pin	136	Magazine Indicator	126	Safety Screw
25	Barrel Nut Washer (state cal.)	140	Firing Pin Spring	359	Main Spring	81	Take-Down Lever
		334	Fore-end	60	Main Spring Screw	82	Take-Down Lever Pin
14	Bolt (state caliber)	330	Fore-end Escutcheon	61	Operating Handle	80	Take-Down Screw
19	Bolt Carrier	335	Fore-end Screw	62	Operating Handle Bushing	221	Take-Down Screw Washer
20	Bolt Carrier Latch	39	Front Sight		ing	483	Tang Screw
10	Bolt Carrier Latch Screw	42	Hammer	63	Operating Handle Plunger	113	Tang Screw Bushing
21	Bolt Carrier Latch Spring	46	Hammer Bushing	64	Operating Handle Plunger Spring	64	Trigger
15	Bolt Lock	45	Hammer Pin	64	Operating Handle Plunger Spring	87	Trigger Pin
18	Bolt Lock Pin	43	Hammer Roll	65	Peep Sight Plug Screw	341	Trigger Plate
17	Bolt Lock Spring	44	Hammer Roll Pin	150	Rear Sight	88	Trigger Plate Screw
24	Buffer Spring (state cal.)	348	Link			85	Trigger Spring

Work must be done at factory or by recommended gunsmith.

Features to Remember (Continued)

EXTREME ACCURACY — The double locking lugs close up to the head of the cartridge and the specially bored and rifled barrel contribute to fine accuracy.

NEW STYLE SPORTING STOCK WITH SHOT-GUN STEEL BUTT PLATE, deeply checkered to prevent slipping. Real pistol grip, properly shaped to fit the hand.

NEW STYLE, FULL, WELL-ROUNDED FORE-END of the semi-beavertail type permits steady holding.

DEPENDABILITY — Every part is hand fitted by skilled workmen so that it will function properly in coordination with other parts. And Remington's rigid system of testing and inspection insures perfect operation. Every part is carefully inspected before used.

SOLID BREECH — A solid wall of steel lies between the shooter's face and the firing chamber. The utmost safety is assured.

THE BOX MAGAZINE IS PERMANENTLY ATTACHED — Cannot become lost or damaged.

EASY LOADING — Cartridges may be loaded in the magazine one at a time or with clip.

WHEN MAGAZINE IS EMPTY, ACTION STAYS OPEN AUTOMATICALLY — No chance of losing a shot by pulling trigger on an empty chamber.

POSITIVE SAFETY DEVICE — Locks the trigger into the hammer so that it is impossible to jar off. Since it works at right angles to the recoil it cannot jar "on" from recoil. When safety is "on" the bolt cannot be opened. Conveniently located on the right side of the receiver for quick operation.

Remedies for Malfunctions

Complaint: Fails to Feed Shells From Magazine

CAUSE	REMEDY
Magazine spring assembled with wide side toward front of arm.	Assemble spring with wide side of spring toward rear.
Top of magazine sides not opened wide enough.	Bend top edges of magazine slightly wider at points about middle of cartridge.
Bullet incline in magazine rough or rusted.	Polish incline at front end of magazine very smooth.
Sides of magazine dented or closed in slightly causing follower to stick.	Adjust sides of magazine to relieve sticking.

Complaint: Fails to Extract Shells

CAUSE	REMEDY
Extractor claw slips off shell rim.	Bend middle of extractor upward to increase tension of claw.
Extractor broken at lug which engages bolt or claw may be broken.	Fit new extractor.
Chamber rusted or gas cut, allowing shells to swell.	*Return to factory for fitting new barrel.

* Work must be done at factory or by recommended gunsmith.

Complaint: Fails to Eject Shells

CAUSE	REMEDY
Extractor has light tension at claw.	Bend upward the middle of the extractor to produce more tension at claw.
Extractor has too much space between claw and bottom of counterbore in face of breech bolt.	Fit new extractor.
Ejector spring weak or ejector rusted fast in bolt.	If spring is weak, fit new spring; if rusted, remove ejector spring, clean and polish, oil thoroughly and reassemble.
Ejector does not have enough forward motion.	Remove ejector and file rear end of clearance slot to provide more forward motion. Be sure lower front corner of ejector is filed below front face of bolt to permit shell head to feed upward freely.

Firearms Value & Reference Books

NOTE: We do not provide information on firearms' values. You may want to have your firearm appraised by a gunsmith. The following sources may also be helpful. We do not accept responsibility for the goods or services provided by these sources.

Firearms Value Books

Blue Book of Gun Values

Blue Book Publications
8009 34th Avenue South #175
Minneapolis, MN 55425
800-877-GUNS

Flayderman's Guide to Firearm Values Gun List

Modern Gun Values
Krause Publications
700 East State Street
Iola, WI 54990-0001
847-573-8530

Gun Trader's Guide

Stoeger Publishing Company
5 Mansard Court
Wayne, NJ 07470
973-872-9500

Reference Books

The Remington 700

John Flacy
Brownells, Inc.
200 South Front Street
Montezuma, IA 50171
515-623-5401

Cartridges of the World

Frank C. Barnes
Standard Catalog of Firearms
Krause Publications
700 East State Street
Iola, WI 54990-0001
847-573-8530

Shooter's Bible

Stoeger Publishing Company
5 Mansard Court
Wayne, NJ 07470
973-872-9500

Remington, America's Oldest Gunmaker

Remington Arms Co.
PO Box 700
Madison, NC 27025
Attention: History Book
800-423-8495