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.
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**
- Firing Pin Bushing
- Firing Pin Spring
- Firing Pin Rear
- Magazine Indicator
- Hammer
- Bolt Carrier Latch
- Action Spring Follower
- Action Spring
- Action Spring Tube
- Trigger
- Bolt Carrier Latch Spring
- Trigger Pin

**Action Closed**
- Operating Handle
- Receiver
- Barrel Extension
- Barrel Jacket
- Trigger Plate Screw
- Main Spring
- Stock
- Link
- Trigger Spring
- Trigger Plate
- Cam Screw

The diagram shows the internal mechanisms of the Model 81 rifle, highlighting key components such as the firing pin, magazine, and action components.
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 autoloading 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
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 SHOTGUN 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**

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

**Complaint: Fails to Eject Shells**

<table>
<thead>
<tr>
<th>CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extractor has light tension at claw.</td>
<td>Bend upward the middle of the extractor to produce more tension at claw.</td>
</tr>
<tr>
<td>Extractor has too much space between claw and bottom of counterbore in face of breech bolt.</td>
<td>Fit new extractor.</td>
</tr>
<tr>
<td>Ejector spring weak or ejector rusted fast in bolt.</td>
<td>If spring is weak, fit new spring; if rusted, remove ejector spring. Clean and polish oil thoroughly and reassemble.</td>
</tr>
<tr>
<td>Ejector does not have enough forward motion.</td>
<td>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.</td>
</tr>
</tbody>
</table>

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

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