Remington



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MODEL 522 VIPER AUTOLOADING RIMFIRE RIFLE

Congratulations on your choice of a Remington. With proper care, it should give you many years of dependable use and enjoyment.

For best results, we recommend that you use Remington Ammunition – the ammunition used in factory testing your frearm against our exacting function and performance standards.



in understanding the instructions in this book.



This picture shows the parts of the ammunition.

SAFETY RULES

WARNING

READ THESE BASIC SAFETY RULES. Learn how to handle your firearm safely. Failure to read, understand and obey these rules can result in serious personal injuries. Only you can prevent accidents.



KNOW YOUR FIREARM. To use it correctly and safely, read and follow the instructions in the enclosed firearm safety booklet and this instruction book. Copies are available free on request from Remington Arms Company, Inc.

TREAT EVERY FIREARM AS IF IT WERE LOADED. Don't rely on the safety switch.



Use it as shown in this book. Even when the safety switch is engaged, careless handling can cause the firstern to fire. The safety switch may not actually be engaged: the internal mechanism may be aftered, disabled or broken; or the safety switch may have become disengaged by careless handling of the firearm.

NEVER MAKE ADJUSTMENTS. Do not make changes or alterations to any parts of a



frearm. Use only REMINOTON pairs. Never make an adjustment to the trigger, or change the shape or size of the sear; sear notch, or other parts.

MAKE YOURSELF SAFE. Wear eye protection, such as eyeglasses, shooting glasses or sunglasses, when shooting. Wear was protection, such as ear plags or muffs, when the protection is not as early plags or muffs, when the protection is not as early plags or muffs, when the protection is not as early plags or muffs, when the protection is not considered to the protection is not considered to the protection of the protection may demand selection and desired to the protection of the protection of the protection and demand selection and d



TAKE CARE OF YOUR FIREARM. Keep the barrel clean and free of obstructions. Clean and have the finarm checked periodically to make sure it is mechanically correct. Worn, damaged or missing parts may be dangerous.

WATCH YOUR MUZZLE. Always keep the firearm pointed in a safe direction.

sion. Never shoot when your ability is impaired by alcohol or medication.

SAFETY RULES



NEVER USE THE WRONG AMMUNITION. Only use ammunition that exactly matches the caliber or gauge markings on your firearm. Careless or incorrect handloading is dangerous. Improperly-made handloads may cause the barrel or breech of any hand-held firearm to burst, which can result in serious personal hipry.

LOAD YOUR FIREARM SAFELY, Never load a firearm until you are in a location where it is safe to shoot, and you are ready to shoot.

RANGE % TO 5 KNOW YOUR TARGET. Before you pull the trigger, make sure you can see the target clearly, and the path of the bullet, slug, or shot charge beyond the target. Never shoot at water, rocks, or any hard surface. Bullets may glance off such surfaces and cause injuries.

KNOW THE RANCE OF YOUR RIREARM. Remember, shotgun pellets can travel 500 yards and shotgun slugs have a range of more than one-half mile. Rimfire bullets can travel more than 11/2 miles. Centerfire bullets can travel up to 5 miles.

IF FIREARM FAILS TO FIRE keep it pointed in a safe direction, then unload carefully avoiding



exposure to breach. If firsamt fires but report or recoil seems weak, unload and then make sure the barrel is not obstructed.

UNLOAD YOUR FIREARM WHENEVERYOU ARE NOT SHOOTING. Never carry or store a loaded firearm in a building or a vehicle. Unload your firearm before crossing or climbing up or down any obstacle that may prevent you from keeping fic control over the firearm, such as a

fallen tree, fence, tree stand, or slippery area.

STORE YOUR FIREARM SAFELY, Keep firearms and ammunition away from children. Lock unloaded firearms and ammunition securely in separate locations.



WARNING: Discharging firearms in poorly ventilated areas, cleaning frearms, or handling ammunition may result in exposure to lead, a substance known to cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all times. Wash hands thoroughly after exposure.

IMPORTANT PARTS OF THE FIREARM

THE SAFETY SWITCH

The safety switch on the Model 522 Viper Autoloading Rimfire Rifle is a button located in front of the trigger. See Pictures 3 and 4.

The safety switch provides protection against accidental or unintentional discharge under normal usage when properly engaged and in good working order.

To engage the safety switch, push the button so the RED BAND MARKING CANNOT BE SEEN.

Always engage the safety switch when the firearm is loaded and you do not intend to shoot.

Never pull the trigger when the safety switch is engaged.

When you are ready to fire the firearm, the magazine must

be in place. Press the safety switch so that the RED BAND MARKING IS SHOWING.

Do not touch the trigger while moving the safety switch,

WARNING: The firearm will fire when the trigger is pulled

and the RED BAND IS SHOWING.

Even when the safety switch is engaged, careless handling can cause the firearm to fire. See Safety Rules on Page 2.





THE OPERATING HANDLE

The operating handle has two (2) functions:

- It is used to pull the bolt rearward to open the action.

 See Picture 5.
- The operating handle is also used to lock the bolt in the open position.

TO LOCK THE BOLT OPEN:

- Pull the operating handle rearward to open the action.
 While pulling the operating handle rearward push in-
- ward on the operating handle.

 3. The operating handle will seat into the bolt and lock the bolt in the manual open position.



To unlock the bolt, pull outward on the operating handle and

release.
WARNING: When the operating handle is forward and the bolt is closed, the firearm is ready to be fired.

TO REMOVE THE MAGAZINE:

- Point the firearm in a safe direction.
 Engage the safety switch. RED BAND WILL NOT SHOW.
- Push the magazine latch rearward. See Picture 5.
- Lock the bolt open.
 Remove the magazine from the firearm.



Ploture 6

Picture 6 | WARNING: If you pick the firearm up and the RED firing pin carrier shows in the operating slot, there may have been a

- malfunction. See Picture 6.

 1. Point the firearm in a safe direction.
- Engage the safety switch. RED BAND WILL NOT SHOW.
- Remove the magazine.
 Pull the operating handle rearward to open the action.
- Lock the bolt open.
 Check the chamber to make sure it is empty.

THE TRIGGER ASSEMBLY

Pulling the trigger fires the firearm.

The trigger assembly and other parts of the firing mechanism are preset at the factory, and must never be altered or adlusted.



WARNING: NEVER put your finger on the trigger unless you are going to fire the firearm.

THE BARREL

The inside of the barrel must be clean and free of obstructions.

- TO CHECK THE INSIDE OF THE BARREL:
- 1. Point the firearm in a safe direction.
- Engage the safety switch. Make sure the RED BAND IS NOT SHOWING.
- Pull the operating handle rearward and push it in to lock the bolt open.
- 4. Remove the magazine from the firearm.
- Check the chamber to make sure it is empty.
- Insert a cleaning rod into the muzzle. Push the rod completely through the barrel until the rod can be seen in the election port.

TO REMOVE OBJECT FROM INSIDE THE BAR-REL:

WARNING: Never try to remove an object from the barrel by loading another cartridge and firing. This may cause the barrel to burst or a cartridge case to rupture and cause serious personal injury.

- Use the correct size cleaning rod.
- Insert the cleaning rod into the muzzle and lightly tap rod to free object.
- Push the cleaning rod all the way through the barrel, until the rod can be seen in the ejection port.
- If an object cannot be easily pushed out of the barrel with a cleaning rod, return the firearm to the factory or a REMINGTON RECOMMENDED GUNSMITH.
- III TO CLEAN THE BARREL FOLLOW INSTRUC-TIONS SHOWN ON PAGE 10.

BEFORE LOADING THE FIREARM:

Make sure the inside of the barrel is free of dirt or other objects.

TO LOAD THE FIREARM

WARNING: This firearm is designed to use 22 'Long Riffle' cartridges only. Do not use any other 22 caliber ammunition, as this can cause a jam or severe gun malfunction and result in serious personal infur.

TO LOAD THE CHAMBER AND MAGAZINE:

NOTE: The barrel should be cleaned before loading and firing the firearm the first time. Follow cleaning instructions shown on Page 10.

- 1. Point the firearm in a safe direction.
- Engage the safety switch. RED BAND WILL NOT SHOW.
 Pull the operating handle rearward and push it in to



Push the magazine latch rearward.

Pull the magazine from the bottom of the firearm.
 Push the magazine follower button down. See Picture 7.

Pure 7.
 Pure 1, to ten 22 'Long Rifle' cartridges one at a time into the magazine. Keep the bullets aligned toward the chamber. See Picture 7.

Replace the magazine into the firearm.
 Make sure the magazine is fully latched into posi-

Make sure the magazine is fully latched into position.

 Pull outward on the operating handle to unlock the both.
 Release the operating handle. The both will close and feed the first cartridge into the chamber. The firearm is now occked, with the safety switch-engaged and the RED BAND NOT SHOWING. The red cockin indicator is clearly visible in the recess at



THE CHAMBER AND MAGAZINE ARE NOW FUL-

 To fire the firearm, disengage the safety switch. RED BAND WILL SHOW.

THE FIREARM IS READY TO FIRE.

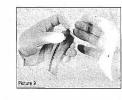
13. The firearm will fire each time the trigger is pulled until the magazine and chamber are empty.
 14. The bolt will remain open after the last cartridge has been fired.

TO UNLOAD THE FIREARM:

- Point the firearm in a safe direction.
 Engage the safety switch. RED BAND WILL NOT SHOW.
 Push the magazine latch rearward and remove.
- the magazine from the firearm.

 4. Pull the operating handle rearward to remove
- Pull the operating handle rearward to remove the cartridge from the chamber.
- Continue to pull the operating handle rearward and push it in to lock the bolt open.
- Side the cartridges forward and out of the magazing. See Picture 9.
- The magazine may be placed back into the firearm. If the magazine is NOT in the firearm, the magazine disconnect will prevent the firearm from firing.

WARNING: Check the chamber and the magazine to make sure there are no cartridges in the firearm.



TO ADJUST THE SIGHTS

TO ADJUST THE REAR SIGHT

Move the rear sight in the same direction as you need to move the bullet on the target.



NOTE: For more information on ballistics and trajectory, see the REMINGTON catalog.

TELESCOPIC SIGHTS

The top of the receiver has a scope rall for the installation of telescopic sights.

	a. Loosen the elevation screw					
\forall	on the rear sight. b. Slide the rear sight down (backward) on the ramp.					
Bullet hite shove	c. Tighten the elevation screw					

0

POSITION ON

TARGET

the center

a. Loosen the elevation screw on the rear sight.
 b. Slide the rear sight up (forward) on the ramp.
 c. Tighten the elevation screw.

ADJUSTMENTS

Bullet hits below the center.

Loosen the windage screw on the rear sight ramp.
 Side the rear sight aperture



to the right.
c. Tighten the windage screw.

a. Loosen the windage screw on the rear sight. b. Slide the rear sight aperture to the left

Bullet hits to the right. c. Tighten the windage screw.

CLEANING, LUBRICATION AND MAINTENANCE WARNING: This firearm should be checked periodically

by the Remington Arms Company, Inc., or a REMING-TON RECOMMENDED GUNSMITH. This will insure proper inspection and any necessary replacement of worn or damaged parts.

NOTE: The chamber and bore should be cleaned before loading and firing the firearm the first time.



LUBRICATION:

Over-lubrication should be avoided at all times. A thin coat of Rem[®] Oil helps to prevent rusting. See note

WARNING: Excessive use of a non-recommended lubritional could cause serious function problems possibly leading to accidental firing.

When the firearm is to be stored, it should be carefully cleaned and thoroughly olled. Outside surfaces should be wised with a light coat of Rem* Oil occasionally.

When the firearm is to be reused, all excess lubrication must be removed. The chamber and bore must be thoroughly wiped dry.

The chamber and action must be cleaned periodically to prevent a misfire or gun malfunction.

NOTE: Remington Rem* Oil with DuPont Teflon® Lubricant is available from your local dealer. If your dealer is out of stock, ask him to order Rem* Oil from his Remington distributor.

TO CLEAN THE BARREL:

the magazine from the firearm

WARNING: Check the chamber and magazine to make sure there are no cartridges in the firearm.

NOTE: Open the action, lock the bolt open, and remove

- Use the instructions and equipment provided in a good cleaning kit. For recommendations, see your dealer or Remington Authorized Gunsmith.
- Select the correct caliber cleaning brush and attach the brush to the cleaning rod.
- Put the cleaning brush into gun cleaning solvent.
 Push the cleaning rod through the barrel several.
- times.

 5. Remove the brush from the rod, attach tip with cleaning patch, and push through the bore.
- Repeat several times, using a new cleaning patch each time until the patch is clean.

WARNING: After cleaning, make sure the barrel is free of obstructions.

TO DISASSEMBLE THE FIREARM FOR CLEANING CAUTION: The Model 522 Viper rifls should not be disas-

sembled beyond what is described in this instruction book, except by a qualified gunsmith.

TO DISASSEMBLE THE FIREARM FOR CLEANING:

WARNING: Check the chamber and magazine to make sure there are no cartridges in the firearm. Always wear eye protection when disassembling and reassembling the firearm.

- Engage the safety switch. RED BAND WILL NOT SHOW.
- Pull the operating handle rearward and push it in to lock the bolt open.
- Push the magazine latch rearward and remove the magazine from the firearm.
- Remove the front and rear takedown screws, using a 1/8* Alien Wrench. See Picture 11.



5. Lift and remove the action from the stock,

NOTE: The action has two (2) major parts, the receiver and the housing.

 Slide the receiver rearward slightly to disengage it from the housing. See Picture 12.

WARNING: Use extreme care when disassembling the receiver and housing as the bolt spring and fifting pin spring are under tension. Wear eye protection to avoid serious personal hijury.

 Rotate the receiver upward and slowly separate the receiver from the housing. See Picture 12.



TO CLEAN THE RECEIVER/BARREL ASSSEMLY:

- 1. Remove the bolt spring and firing pin spring. 2. Slide the firing pin carrier assembly rearward and out of the receiver.
- 3. Unlock the operating handle and pull it fully rearward. 4. Pull the operating handle upward and out of the receiv-
- 5. Slide the breech bolt rearward and out of the receiver.

CALITION: Do not disassemble further.

- 6. Brush the inside of the receiver and end of the barrel with gun cleaning solvent and wipe dry. See Picture 13. 7. Apply a thin coat of Rem." Oil to the inside of the receiver and on the sear pivot pin. See Picture 13.
- See Lubrication Warning on Page 10.



TO CLEAN THE HOUSING ASSEMBLY:

CAUTION: Clean the housing as a unit using Rem* Oil. Do not remove any parts from the housing except as stated

 Slide the bolt spring guide and firing spring guide from the hub in the rear of the housing. See Picture 14.



- Use a small brush and clean the inside of the housing thoroughly with cleaning solvent. 3. Use a clean patch or rag to wipe the housing clean and
- 4. Apply a drop of Rem" Oil to the trigger plyot pin area and safety switch spring hole. See Pictures 13 and 14.

TO CLEAN THE BREECH BOLT:

holow

- 1. Clean the breech bolt using Rem" Oil. 2. Clean the bolt including the bolt face and firing pin slot
- thoroughly and wipe dry, 3. Apply a drop of Rem" Oil behind the extractor, and in
- the firing pin slot.

TO CLEAN THE FIRING PIN/CARRIER ASSEMBLY:

 Clean the firing pin/carrier assembly with Rem" Oil and wipe dry. See Lubrication Warning on Page 10.

TO CLEAN THE MAGAZINE ASSEMBLY:

WARNING: Check to make sure there are no cartridges in the magazine box.

 Slide the magazine bottom forward and off of the magazine. As the spring becomes exposed, hold it with your thumb to prevent it from fiving out.

WARNING: Use extreme care when removing the magazine bottom, as the magazine spring is under tension. Wear eye protection to avoid springs personal injury.

- 2. Remove the magazine spring.
- Hemove the magazine spring.
 Remove the magazine follower.
- Clean the magazine and follower and wipe dry.
 Reassemble the magazine follower into the magazine.
 Align the button on the magazine follower with the slot
- In the magazine.

 6. Insert the magazine spring into the magazine with the
- colls aligned as shown. See Picture 15.
 7. Position the magazine bottom onto the magazine.
- Push the magazine spring into the magazine and hold securely.
 Slide the magazine bottom rearward until the spring
 - Silde the magazine bottom rearward until the spring end snaps into the slot in the side of the magazine bottom.

WARNING: This firearm should be checked periodically by the Remington Arms Co., Inc. or a REMINGTON RECOMMENDED GUNSMITH. This will insure proper inspection and any necessary replacement of worn or damaged parts.



TO REASSEMBLE THE FIREARM

WARNING: Check the chamber and magazine box to make sure there are no cartridges in the firearm.

CAUTION: Do not reassemble the firearm with the magazine box in place.

I. RECEIVER/BARREL ASSEMBLY

- Slide the breech bolt into the receiver with the bolt face toward the barrel and the firing pin slot to the top so that it alians with the rail in the top of the receiver.
- Rotate both sears so they do not block the breach boit.
 Slide the both forward until the operating handle hole in the bott aligns with operating handle slot in the repeiver.

- 4. Insert the operating handle through the receiver and
- into the breech bolt.

 5. Side the breech bolt forward toward the barrel.

NOTE: Breech bolt must slide freely in the receiver with operating handle assembled.

 Slide the firing pin/carrier assembly into the receiver making sure that the firing pin aligns with and enters the

firing pin slot in the breech bolt.

NOTE: Rotate both sears so they do not block the firing pin/carrier assembly.

 Place the firing pin spring into the hole on the operating handle side of the carrier. See Picture 18.



 Place the bolt spring through the other hole in the carries and into the breach bolt. See Picture 16.

NOTE: The firing pin spring is identified by RED color coded wire. This marks the spring to match the RED spring guide

In the housing assembly and the RED fining pin carrier. When properly assembled, the springs will show approximately the same length.

HOUSING ASSEMBLY:

 Place the RED spring guide into the slot in the right side of the hub at the rear of the housing.
 Place the BLACK spring guide into the slot in the left side of the hub at the rear of the housing.

NOTE: If you try to insert the spring guides in reverse order you will notice that the spring guides are different and will not assemble properly in the wrong slots.

III RECEIVER AND HOUSING:

 Align the receiver to the housing. Start the bolt spring and the firing pin spring onto the spring guides. See Picture 17.



NOTE: Remember the 3-R's. The RED spring goes on the RED spring guide in the RIGHT side of the receiver.

 Slide the receiver rearward toward the housing until the rear of the receiver closes up on the hub on the housing.

NOTE: Start the receiver rearward at a slight angle to ensure that the sears clear the magazine guide and ejector. Use the receiver assembly aid to guide the receiver assembly into the housing assembly. See Picture 17.

CAUTION: If the receiver assembly aid is damaged or broken return the firearm to the factory or a REMINGTON RECOMMENDED GUNSMITH.

- To ensure that the secondary sear is functioning properly pull operating handle rearward 1/4 inch and release the handle. The firing pin carrier, when propely assembled, WILL NOT contact the rear of the bolt assembly. See Picture 18.
- The front of the receiver must lock into the notch in the housing. This will keep both assemblies together while you assemble the stock.

IV ACTION TO STOCK ASSEMBLY:

Assemble the action into the stock.

NOTE: The safety switch must be engaged. RED BAND

Poture 18

THESE PARTS MUST NOT CONTACT 7

FRING THE CAPACT | BOLT ASSEMBLY

2. Insert the front and rear takedown screws.

NOTE: Longer takedown screw goes to the back of the trigger guard.

 Tighten both screws, using a 1/8" Allen Wrench, until both screws are snug. Do not over-tighten.
 Pull the operating handle rearward and lock the bolt in

the open position.
 The magazine may be placed back into the firearm. If

the magazine is NOT in the firearm, the magazine disconnect will prevent the firearm from firing.

HOW TO ORDER PARTS OR SERVICE FROM THE REMINGTON FACTORY

TO ORDER PARTS:

NOTE: Many Remington dealers carry a full line of

- 1. Use the information on Pages 17 and 18 to find the
- correct part name and number.

 2. Write the model and serial number of your firearm, and the part same and number on the parts order.
 - Send or fax parts order to: Arms Service Division

Remington Arms Company, Inc. Illion, New York 13357-1888

Parts Department: 315-895-7493 Parts Department Fax: 315-895-3659

 When calling an order in, please have your Visa or Mastercard ready. If you wish to pre-pay by check or money order, an exact quote will be given to you over the phone.
 Sorry, no C.O.D.'s.

WARNING: Use only Remington parts in Remington firearms.

TO ORDER FACTORY SERVICE:

- Write a short description of the problem and include the model number, serial number and day time telephone number.
- Attach a copy to the firearm and another in an envelope on the outside of the box.

WARNING: Make sure gun and magazine are unloaded before shipping.

- Send by either United Parcel Service or Parcel
- Post. Ship magazine with the firearm.

 4. Get insurance for the firearm.

 5. Record the serial number. It is required when call-
- ing factory to inquire if firearm has been received for repairs.

 6 Send firearms for factory service to:
 - Arms Service Division Remington Arms Company, Inc. Ilion, New York 13357-1888

Service Department: 315-895-7791 Service Department Fax: 315-895-3559

INSTRUCTION BOOKS AND GUNSMITH LIST:

To get an instruction book for any Remington firearm, a firearms safety booker, and a list of recommended gussmiths, write to Remington Arms Company, Inc., Arms Service Division. Illan, New York (13357. Give the

model, serial number, gauge or callber.

AUT

MODEL 522 VIPER PARTS LIST

View Part Name

PARTS SUBJECT TO CHANGE WITHOUT NOTICE. FOB ILION, NEW YORK. View Part Name

No.	No.		No.	No.	7.000
1	94964	Bolt Return Spring	20	97441	Magazine Bottom
2	94838	Bolt Spring Guide	21	104445	Magazine Box
	104205	Breech Bolt Assembly (Restricted)	22	94972	Magazine Follower
3	104200		23	94973	Magazine Spring
4	97275		24	97716	Operating Handle
5	90906		25	104185	Receiver/Barrel Assembly (Restricted)
6	104830		26	97681	Rear Sight Aperture
7	97039	Extractor Plunger		104165	Rear Sight Assembly
8	97418		27	104160	Rear Sight Base
9		Firing Pin (Restricted)	28	28505	Rear Sight Base Screw
10		Firing Pin Carrier (Restricted)	29	93904	Rear Sight Slide
		Firing Pin Carrier Assembly	30	104210	Stock Assembly
11		Firing Pin Retaining Pin (Restricted)	31	97820	Takedown Screw, Front
12		Firing Pin Spring	32	97821	Takedown Screw, Rear
13		Firing Pin Spring Guide	33	90904	Windage Screw (Not Shown)
14		Front Sight			
15	28505			1	
16	94931	Hold Open			NOTE: Restricted parts are for factor
17	97050	Hold Open Retainer Pin		į.	Installation only.
18	94933	Hold Open Return Spring			
19 104240	104240	Housing Assembly Complete			
		(Restricted)			
	104215	Magazine Assembly (10 Shot)		1	