



### SPECIFICATIONS:

Mechanism:	Bolt Action, 5-shot pellet clip
Caliber:	.177
Ammunition:	BB cal. (4.5 mm) Steel Airgun Shot  .177 cal. (4.5 mm) Lead Airgun Pellet 
Reservoir:	195 BBs
Magazine:	21 BBs
Weight:	2 lbs., 14 oz. (1.3 kg)
Overall Length:	34 3/8" (87.3 cm)
Sights:	Pinpoint™ Sight Tube
	Rear Fully Adjustable
	Front "Crosshairs"
Barrel:	Solid Steel Smoothbore
Safety:	Crossbolt

### PERFORMANCE

#### \*Maximum Average Muzzle Velocity

BBs	450 feet per second
Pellets	400 feet per second

\*Many factors affect velocity, including brand of projectile, type of projectile, oiling of the gun, barrel condition, temperature and elevation.



**CAUTION:** NOT A TOY. ADULT SUPERVISION REQUIRED. MISUSE OR CARELESS USE MAY CAUSE SERIOUS INJURY OR DEATH. MAY BE DANGEROUS UP TO 400 YARDS (366 METERS).

READ ALL INSTRUCTIONS BEFORE USING.

BUYER AND USER HAVE THE DUTY TO OBEY ALL LAWS ABOUT THE USE AND OWNERSHIP OF THIS AIRGUN.

**THIS AIRGUN IS INTENDED FOR USE BY THOSE 16 YEARS OF AGE OR OLDER.**

## CONGRATULATIONS

And thank you for choosing Crosman Airguns Model 790 Outbacker™ BB/Pellet Air Rifle.

The Outbacker includes many up-to-date features which will mean easier handling, more convenient shooting and more enjoyment for you.

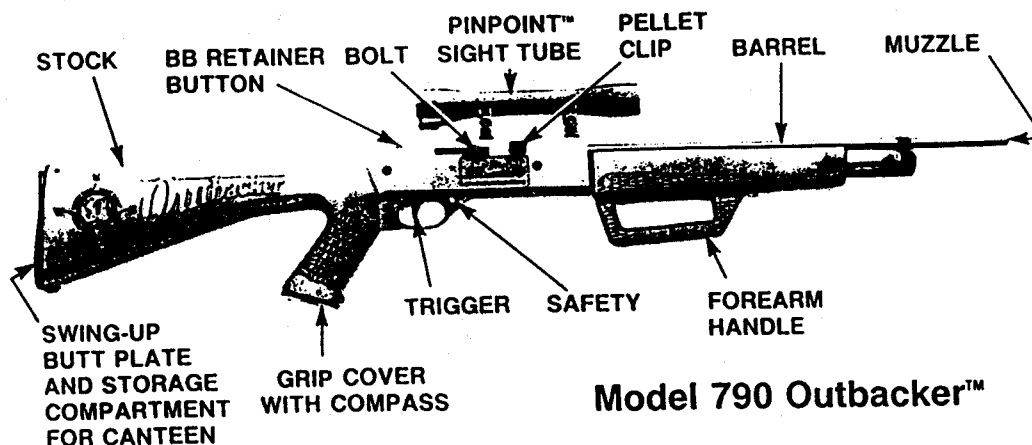
- New Pinpoint™ Sight
- Airgun Adventure Guide
- Easy-to-Pump Forearm
- Compass and Hidden Canteen

To get the most enjoyment from your new airgun, please read this owner's manual completely. And remember, the Model 790 Outbacker is not a toy. Treat it with the same respect you would a firearm. Always carefully follow the safety instructions found in this Owner's Manual and keep this manual in a safe place for future use.

Thank you for choosing a Crosman airgun.

### Step 1. Learning the Parts of Your New Air Rifle

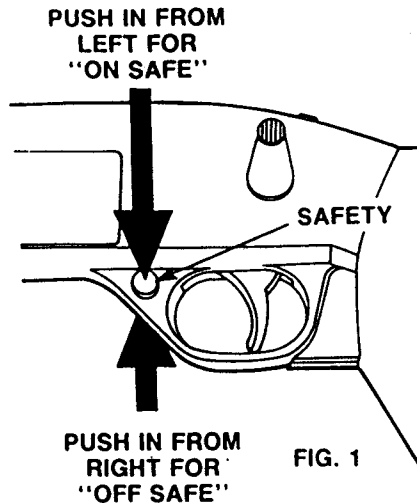
Learning the names of the parts of your new air rifle will help you to understand your Owner's Manual. Use this manual to increase your airgun enjoyment.



### Step 2. Operating the Safety

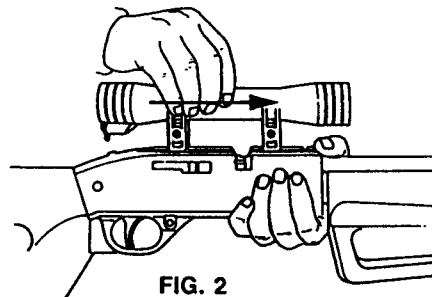
- To put the air rifle "On Safe", locate the safety directly in front of the trigger. Push the safety from the left side all the way in. (Fig. 1). The safety is not on unless it is pushed all the way in and the red ring around the safety is not showing. The air rifle will not fire when "On Safe".
- Even when the safety is "On Safe" you should continue to handle the air rifle safely. Don't point the gun at anything you don't intend to shoot.
- To take the air rifle "Off Safe", push the safety from the right side all the way in. When you can see the red ring around the safety, the rifle is "Off Safe" and will fire.

**CAUTION: KEEP THE AIR RIFLE "ON SAFE" UNTIL YOU ARE ACTUALLY READY TO SHOOT. THEN PUSH IT TO "OFF SAFE".**



### Step 3. Installing the Sight Tube

- Put the air rifle on safe.
- Slide the sight tube onto the scope grooves on top of the receivers. The screw heads go on the right side of the airgun. (Fig. 2)
- Position the sight tube on the scope grooves the distance from your eye that allows you to clearly focus on your target. (Aiming and sight adjustment are discussed in Step 7.)
- Tighten the screws to hold the sight tube in place.

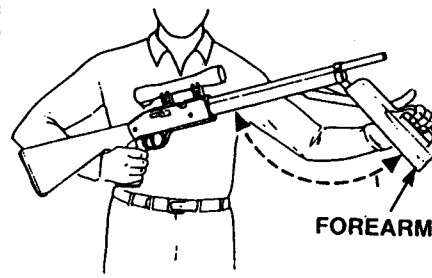


### Step 4. Pumping the Air Rifle

- Put the air rifle "On Safe".
- Open the forearm all the way until it stops. (Fig. 3) Be sure to hold on to the forearm firmly as you open it. It could spring back into the closed position. Place your hands in the same positions shown in Fig. 3 in order to avoid being pinched should you lose hold of the forearm.
- Return the forearm to the original closed position with a smooth stroke. Be sure to hold on to the forearm firmly as you close it to prevent it from springing open and causing possible injury.
- You air rifle is a single pump airgun. It should be pumped only once. After you have pumped the air rifle do not open the forearm again until you have fired the gun. Over-pumping will cause major damage to the gun.
- Do not twist the forearm while pumping. Use straight strokes to prevent breakage.

**CAUTION: ALWAYS HOLD ON TO THE FOREARM FIRMLY WHEN OPENING AND CLOSING TO PREVENT POSSIBLE INJURY.**

**CAUTION: ALWAYS PUMP YOUR AIRGUN AS SHOWN BELOW. DO NOT HOLD ON TO THE PINPOINT™ SIGHT TUBE WHEN PUMPING. IT MAY SLIDE OFF UNEXPECTEDLY AND RESULT IN INJURY TO YOU.**

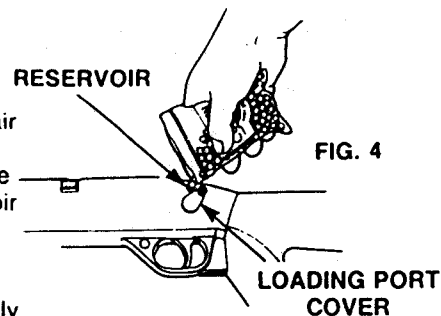


## Step 5. Loading and Unloading BBs.

### A. Loading the BBs

- Put the air rifle "On Safe".
- Slide the loading port cover toward the rear of the air rifle. (Fig. 4)
- Pour no more than 195 BBs into the reservoir. Do not overfill. Do not put pellets in the reservoir hole. They will jam the reservoir.
- Close the loading port cover.
- Pull the BB retainer button back.
- Turn the rifle over, tilt the barrel downward slightly and shake the gun (Fig. 5) to fill the magazine.
- Push BB retainer button forward to keep BBs in magazine.
- With the barrel tilted downward, cock the bolt by pulling it all the way back. The magnetic bolt will pick up a BB.
- Position the pellet clip so the bolt will feed through one of the pellet chambers in the clip. (Fig. 6)
- Push the bolt all the way forward slowly and you will see the BB move through the clip. (Fig. 6). The BB is now in a position to be fired out the barrel.

**NOTE:** BBs will not transfer from the magazine to the barrel unless the barrel is tilted downward.

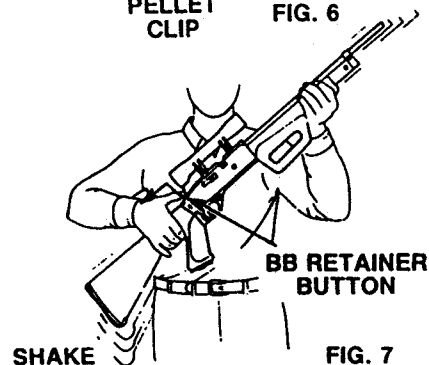
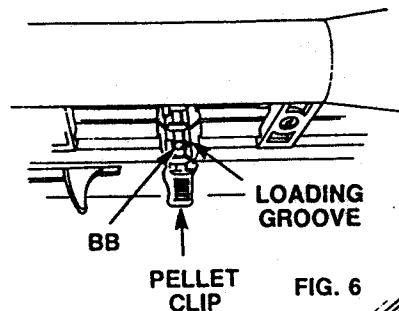


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### B. Unloading BBs

- Pump the air rifle, cock and close the bolt, point the air rifle in a safe direction and fire. This will unload the BB from the magnetic bolt.
- Put the air rifle "On Safe".
- Pull the BB retainer button back.
- Tilt the barrel up just slightly and shake the gun until all the BBs are out of the magazine. (Fig. 7)
- Push the BB retainer button forward to block BBs from the magazine.
- Tilt the air rifle downward and cock the bolt by pulling it all the way back. If there are still BBs in the magazine, the magnetic bolt will pick one up. Push the bolt all the way forward slowly. If there is a BB on the bolt you will see the BB move through the clip. If there is a BB on the magnetic bolt, pump the air rifle, point it in a safe direction, take it "Off Safe" and fire. **REMEMBER**, unless the barrel is tilted downward the BBs will not transfer from the magazine to the barrel.
- Repeat this unloading procedure until you are sure the rifle is no longer loaded.

Before storing your rifle, unload the reservoir by turning the rifle over to the left side, opening the loading port cover and shaking it until all of the BBs have been removed.

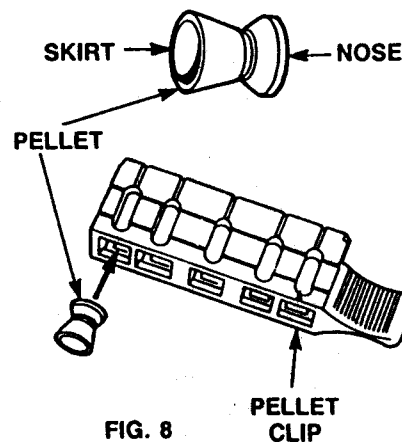


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## Step 6. Loading and Unloading Pellets

### A. Loading Pellets

- Unload the BBs from the air rifle (See Step 5B)
- Put the air rifle "On Safe".
- Pull the bolt to the rear.
- Grasp the pellet clip handle and remove it by pulling it to the right.
- Place a pellet (nose first) in each of the five pellet chambers (Fig. 8). **IMPORTANT:** To avoid jams or deforming pellets make sure each pellet skirt is level or slightly below the rim of the pellet chamber.
- Replace the pellet clip lining up one of the pellet chambers with the barrel chamber, (make sure the pellet clip handle is on the right side of the gun). (Fig. 9)
- IMPORTANT:** If it is not lined up properly, you will not be able to push the bolt forward.
- Push the bolt all the way forward. The air rifle is now ready to be fired.
- Repeat this procedure with each of the chambers.



### B. Unloading Pellets

- With the air rifle "On Safe", pump it once, cock and close the bolt, aim in a SAFE DIRECTION, take "Off Safe", and fire.
- Put the air rifle "On Safe".
- Remove the pellet clip. (See Step 6A).
- Using a ramrod or metal clothes hanger or other similar tool, gently push each pellet out of the clip. **IMPORTANT:** Never use sharp metal tools to remove pellets.
- Lay the clip aside.
- With the air rifle "On Safe", pump it once, cock the bolt and close it, aim in a SAFE DIRECTION, take "Off Safe", and fire.
- Another way of unloading the air rifle is to follow the directions listed under Step 8 -- Removing a Jammed BB or Pellet.
- Put the empty clip back in your air rifle.

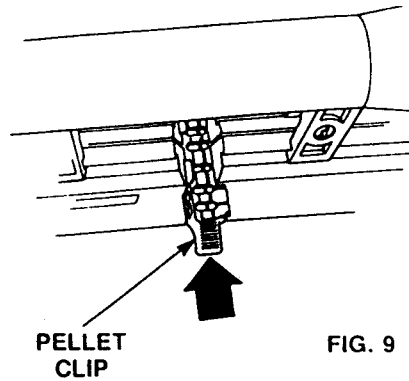


FIG. 9

**CAUTION: USE BBs OR .177 CALIBER PELLETS ONLY. NEVER REUSE AMMUNITION. USE OF ANY OTHER AMMUNITION CAN CAUSE INJURY TO YOU OR DAMAGE TO THE AIR RIFLE.**

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### Step 7. Aiming and Firing Safely

#### A. Aiming the Air Rifle

Always aim your air rifle in a SAFE DIRECTION. When you are sure of your target and backstop, and the area around the target is clear, take the rifle "Off Safe" (see Step 2) and squeeze the trigger to fire.

Don't shoot at hard surfaces or at the surface of water. The BB or pellet may bounce off and hit someone or something you had not intended to hit.

The air rifle is correctly aimed when the "crosshairs" are positioned in the center of the rear peep sight aperture. (Fig. 10)

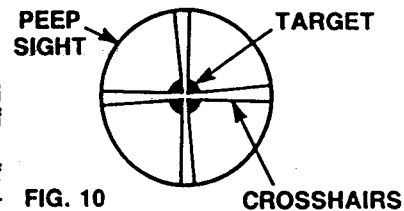


FIG. 10

#### B. Sight Adjustment

The rear sight may be adjusted to shoot higher or lower (elevation). Loosen the rear sight screw and move the sight up to make the BB or pellet hit higher on the target. Move the rear sight down to make the BB or pellet hit lower on the target. After you have made the adjustment, tighten the rear sight screw. (Fig. 11)

The rear sight may also be adjusted to shoot right or left (windage). Loosen the rear sight screw and move the sight to the right to make the BB or pellet hit to the right on the target. Move the sight to the left to make the BB or pellet hit to the left on the target. After you have made the adjustment, tighten the rear sight screw. (Fig. 11)

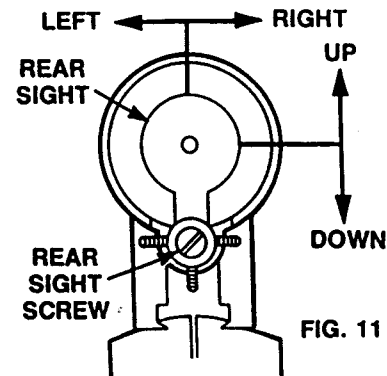


FIG. 11

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### Step 8. Removing a Jammed BB or Pellet

- Don't reload.
- Put the air rifle "On Safe"
- Unload the BBs from the magazine. (See Step 5B).
- Remove and unload the clip. (See Step 6)
- With the air rifle "On Safe", open the bolt, insert a rod or straightened clothes hanger into the barrel and carefully push the jammed pellet or BB into the loading groove. Don't try to reuse that pellet or BB again. (Fig. 12)

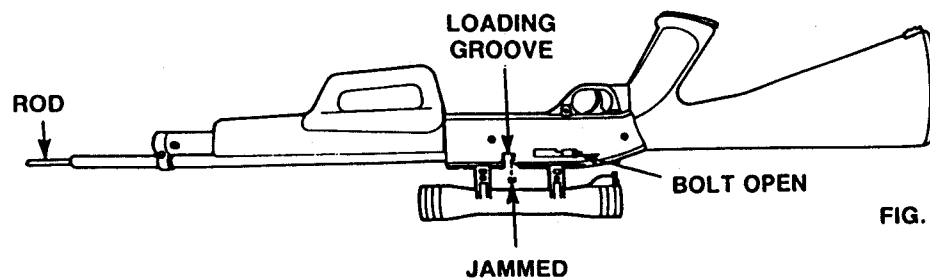


FIG. 12

## Step 9. Maintaining Your Air Rifle

Trouble Shooting Guide

PROBLEMS	REASONS														
	Safety in on position	Gun Not Cocked	Bolt in open position	Gun Not Pumped	Pellet Clip Not Properly Aligned	Bolt Unlatched	Barrel Plugged (Jammed)	Lack of Lubrication	Re-Used Ammunition	Pellets Loaded Backwards	Use of Wrong Type or Cal. Ammo	Shooting Pellet BB Combination	Loading More Than One Projectile	Sight Not Adjusted	Ammunition Not in Fire Position
INACCURACY						•			•	•	•	•	•	•	
GUN FAILS TO SHOOT	•	•	•	•	•		•	•	•	•	•	•	•		•
LOW POWER						•		•	•	•	•	•	•		
BARREL PLUGGED (Jammed)						•		•	•	•	•	•	•		

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Your air rifle will work best if you oil it every 250 shots. Put 2 or 3 drops of Crosman Pellgunoil<sup>®</sup> on the pump pivot pins and the oil retainer in the pump mechanism. A little oil on the barrel helps prevent rust. Pellgunoil<sup>®</sup> (available for order through Crosman Accessories Catalog) is best, but any light household oil is better than none. Don't over-oil. This can cause damage to your air rifle. (Fig. 13)

Tampering with the gun or attempts to change the gun in any way make it unsafe to use. If you drop your gun, check it to see that it works properly before you use it again. If anything seems changed, like a shorter or weaker trigger pull, this may mean worn out or broken parts. Don't use it again until you've had it checked by an Authorized Service Station (A list of Service Stations is in the box with the Rifle.)

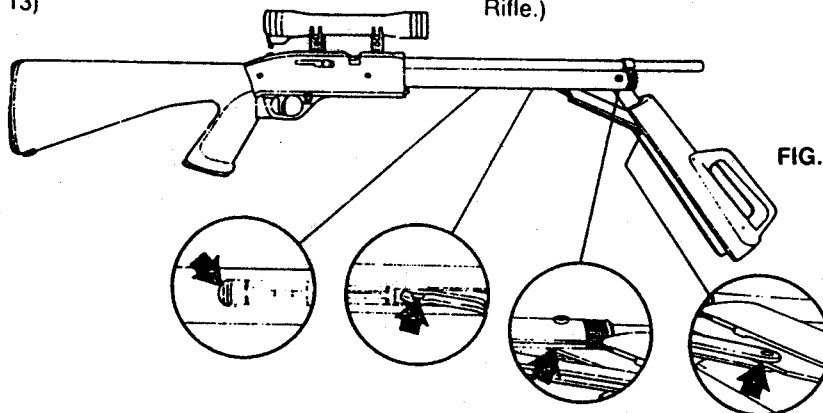


FIG. 13

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## Step 10. Reviewing Safety

- Don't point at anything you don't intend to shoot. Always aim in a SAFE DIRECTION.
- Don't pinch hands or fingers when opening and closing forearm and butt plate.
- Use BBs or .177 caliber pellets only. Never reuse ammunition.
- Don't shoot at hard surfaces or at the surface of water. The BB or pellet may bounce off and hit someone or something you had not intended to hit.
- Always keep gun "On Safe" until you are ready to shoot.
- Stop using a backstop if it becomes worn. Place backstop in a location that will be safe should the backstop fail.
- Do not attempt to disassemble or tamper with your gun. Use a competent repairman.
- Always handle your air rifle as though it were loaded.
- Always check to see if the rifle is "On Safe" and unloaded when getting it from another person or from storage.
- Don't put the rifle away loaded. Make sure all of the BBs and pellets are unloaded. (Step 5B and Step 6B). Also unload the BBs from the reservoir before storing your air rifle.
- Be sure to hold on to the forearm firmly as you close it to prevent it from springing open and causing possible injury.



## Step 11. Using and Enjoying Your Air Rifle

Now that you have studied your owner's manual and understand how to use your air rifle properly, you are ready to begin your shooting enjoyment. Follow these shooting tips for fun and safe shooting.

### Choosing Targets

Always choose your targets carefully. It is best to shoot at paper bullseye targets which are attached to a safe backstop such as the Crosman Target Trap. A heavy blanket should be hung behind the target trap to prevent ricochet or BBs or pellets bouncing off should you miss the backstop. It is also best to wear shooting glasses to protect your eyes.

Don't shoot at hard surfaces or at the surface of water. The BB or pellet may bounce off and hit someone or something you had not intended to hit.

Your backstop should be checked for wear before and after each use. Stop using any backstop if the surface is worn or damaged or if the BB or pellet bounces off or ricochets.

Your airgun is designed for target shooting and is suited for both indoor and outdoor use. Always remember to place your target carefully. **THINK** what you will hit if you miss the target!

### Special Features

Your 790 Outbacker™ has more exciting features!

A hidden canteen fits into the gun's stock.

To open your secret storage compartment, just pull back on the butt plate tab and open. (Fig. 14). Be careful – don't pinch your hands or fingers in the hinge area when opening. Do not use excessive force on the hinge area of the butt plate. This could damage the butt plate. To close, simply snap the butt plate shut.

The Outbacker Adventure Guide is a fun-filled guide with airgunning ideas and activities. (The Guide is packed in the envelope with this Owner's Manual.)

The Outbacker comes equipped with a compass. The compass is located in the grip cover. (Fig. 15). Always remove the compass and grip cover from the gun before using it. The compass may not function properly when near metal.

Simply pull down on the grip cover to remove it from your airgun. When using the compass, be sure it is held in a level position in order to get a good reading.

By placing a piece of string through the hole in the grip cover, you can make a lanyard so the compass can be tied to your belt.

To replace the grip cover on the airgun for storage, simply snap the grip cover back into the pistol grip. (The lanyard ring hole should be facing the butt plate.) (Fig. 15)

