

Discovery

Pre-Charged Pneumatic Airgun

OWNER'S MANUAL

READ ALL INSTRUCTIONS AND WARNINGS IN THIS MANUAL BEFORE USING THIS AIRGUN

Crosman Corporation 7629 Routes 5 & 20 East Bloomfield, NY 14443 www.crosman.com

1-800-7AIRGUN (724-7486)

BP177-515

AWARNING: Not a toy. This airgun is recommended for adult use only. Misuse or careless use may cause serious injury or death. May be dangerous up to 600 yards (549 meters).

AWARNING: Do not brandish or display this airgun in public—it may confuse people and may be a crime. Police and others may think it is a firearm. Do not change the coloration and markings to make it look more like a firearm. That is dangerous and may be a crime

YOU AND OTHERS WITH YOU SHOULD ALWAYS WEAR SHOOTING GLASSES TO PROTECT YOUR EYES 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 ADULTS ONLY

AWARNING: Lead pellets. Do not inhale dust or put pellets in mouth. Wash hands after handling. This product contains lead, a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm.)

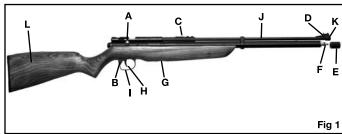
AWARNING: Use only compressed air in this airgun. When using Crosman's optional CO2 adapter, you may use CO2. Use no other gasses—including oxygen, which can cause a fire or explosion that may result in serious injury or death.

Please read this owner's manual completely. And remember that an airgun is not a toy. Always carefully follow the safety instructions found in this owner's manual and keep the manual in a safe place for future use. If you have any questions regarding the operation of your new airgun, please contact Crosman at 1-800-724-7486.

- Learning the Parts of Your New Airgun
 Operating the Safety
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- 4. Cocking, Loading, Unloading and Uncocking the Airgun
- 5. Aiming and Firing Safely6. Removing a Jammed Pellet
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1. Learning the Parts of your New Airgun

Learning the names and parts of your new airgun will help you understand your owner's manual. Graphic of airgun with following parts labeled:



B. Safety C. Rear sight

D. Front sight E. Protective cap for fill nipple F. Fill nipple

G. Pressure gauge (Fig 5)

H. Triaaer

I. Trigger guard J. Barrel

K.Muzzle L. Stock

Your new airgun is unique because it operates on either compressed air or CO_2 , To fill and shoot with CO_2 , an optional CO_2 fill adapter must be purchased. This owner's manual describes operating the gun with compressed air only. The manual that comes with Crosman's CO_2 adapter describes operation on CO_2 .

2. Operating the Safety

A. To Put the Airgun "ON SAFE:"

Locate the safety directly in back of the trigger.

Push the safety from the left side all the way in (Fig. 2). The safety is not "ON SAFE" unless it is pushed all the way in and the RED ring around the left side of the safety is NOT showing.

Like all mechanical devices, an airgun safety can fail. Even when the safety is "ON SAFE", you should continue to handle the airgun safely. NEVER point the airgun at any person. NEVER point the airgun at anything you do not intend

B. To Take the Airgun "OFF SAFE":

 Push the safety from the right side all the way in.
 The airgun is ready to fire when "OFF SAFE." When you can see the RED line on the left side of the safety, the airgun is "OFF SAFE" and can be fired.



3. Pressurizing and Depressurizing the Airgun
 A. Pressurizing (Filling) the Airgun

 [NOTE: Operation instructions for CO₂ operation are contained in the manual that comes with the CO₂ adapter]

AWARNING: Use only compressed air in this airgun. When using Crosman's optional CO_2 adapter, you may use CO_2 . Use no other gasses, including oxygen, which can cause a fire or explosion that may result in serious injury or death.

Be sure to wear eye protectionMake sure the airgun is unloaded and not cocked. (See

Make sure the airgun is unloaded and not cocked. (See step 4B. for instructions on uncocking and unloading.)
 Read all instructions with your high pressure hand pump so you are familiar with its operation. Use only a pump designed for filling a pre-charged airgun. Do not use a standard "shop air" compressor as these types of air compressors cannot produce the high



pressures required to operate the airgun.

Put the airgun "ON SAFE" (see step 2A).

Point the airgun in a SAFE DIRECTION.

Remove the cap that covers the fill nipple on the airgun.

 Connect the quick-disconnect fitting on the hand pump hose to the fill nipple (fig. 3).
 Make certain the bleed valve on the hand pump is fully closed (tighten in a clockwise direction) (fig.4).

Pressurize the airgun by pumping and continue until the gauge on the pump and the

gauge on the airgun are at 2,000 psi. **DO NOT** fill the airgun to more than 2000 psi. See "Overfill" information below.

Open the bleed screw on the pump base in a counter-clockwise direction to bleed the hose.

Disconnect the pump from the fill nipple.
Place the cap over the fill nipple. Always keep the fill nipple capped to eliminate the possibility of dirt entering the check valve.

Over Fill

• This airgun is designed for optimal performance at a pressure no greater than 2,000 psi. Over filling does not improve performance. It will actually lessen performance and may cause the valve to lock. If you discover that the airgun has been over filled, try to dry fire the airgun (cock and shoot with no pellet loaded) in a SAFE DIRECTION until pressure on your airgun drops to 2,000 psi.

If the airgun will not discharge air with each shot the valve may be locked. In this case, contact Crosman Customer Service at 1-800-724-7486.

AWARNING: Do not attempt to repair the airgun or to disassemble to correct an over fill or valve lock. Parts can fly from the airgun at dangerous speeds when it is disassembled while pressurized

B. Depressurizing the Airgun

Keep the rifle pointed in a SAFE DIRECTION (see section 5A)

 Remove all the air from your rifle by repeatedly cocking and dry-firing with the rifle pointed in a SAFE DIRECTION (see step 5A.) until the pressure gauge on your airgun shows no pressure on the gauge and air cannot be heard when the gun is dry fired.

• Put the air gun "ON SAFE"

- If the pressure in the gun cannot be relieved by using the dry firing process it may indicate a valve lock condition. Contact Crosman customer service.
- Alternatively, a special tool (Crosman part number PCPDT1) is available that will de-pressurize the gun. Contact Crosman customer service for information

4. Cocking, Loading, Unloading and Uncocking the Airgun

AWARNING: Use .177 caliber pellets only in your .177 caliber Benjamin Discovery and .22 caliber pellets only in your .22 caliber Benjamin Discovery. Never reuse ammunition. Úse of any other ammunition can cause injury to you or damage to the airgun.

A. Cocking and Loading Pellets

- Put the airgun "ON SAFE." (See Section 2A)
 Point the airgun in a SAFE DIRECTION.
- Be sure your airgun is properly pressurized (see section 3).
- Open the bolt by pushing the bolt handle up and pulling it all the way back until you hear two clicks.

- With the bolt in the rearward position, place one pellet, nose first, into the loading port (breech) (fig. 6). This is a single shot pellet airgun. Load no more than one pellet
- Lightly push the pellet into the barrel by closing the bolt and pushing the bolt handle down to lock. DO NOT jam the bolt forward. This will damage your airgun.
- Be sure the bolt is closed and locked before firing. If it is not closed and fully locked, the pellet may not be discharged.

B. Unloading Pellets and Uncocking Your Air Gun

Unloading

Fig 7

The most common way to unload a pellet is to fire your airgun in a SAFE DIRECTION following Section 5 on Aiming and Firing Safely. If a pellet has become lodged in the barrel follow the steps in section 6 Removing a Jammed Pellet.

Fig 6

Sight

Right

Left

Up

Un-cocking
To uncock the action, take the airgun "OFF SAFE." With the muzzle pointed in a SAFE DIRECTION, open the bolt and pull all the way to the rear. Holding the bolt handle securely, pull the trigger with your other hand and slowly ease the bolt as far forward as it will go with your hand. You may now lower the bolt and the airgun is un-cocked.
Put the airgun "ON SAFE".

Target

Sight

Blade

Rear

5. Aiming and Firing Safely

A. Aiming the Airgun
 Always point your airgun in a SAFE DIRECTION.

- Follow the instructions for filling the air gun (section 3A) and loading pellets (section 4A).
- You and others with you should always wear shooting glasses

to protect your eyes.

• Do not shoot at hard surfaces or

Sight Elevation Sight at the surface of water. The pellet may bounce off or ricochet and hit someone or something you had not intended to hit.

Always choose your target carefully. It is best to shoot at paper bull's-eye targets which are attached to a safe backstop. A heavy blanket should be hung behind the backstop to prevent ricochet should you miss the backstop.
 Your airgun is designed for target shooting and is suited for both indoor and outdoor use. Always remember to place your target carefully. THINK about what you will hit if you miss the target.

The airgun is correctly aimed when the front sight blade is positioned exactly in the center of the notch of the rear sight. The top of the front sight blade should be even with the top of the notch in the rear sight. The bulls-eye

should appear to rest on the top of the front sight. (Fig 7)
Before firing the airgun make certain there is sufficient pressure for proper operation. (see Figure 5).

- B. Adjusting the sights
 The rear sight may be adjusted to shoot higher or lower (elevation). Move the rear sight elevator back to make pellet hit higher on the target. Move the rear sight elevator forward to make the pellet hit lower on the target. When moving the elevator, slightly lift the rear sight with one hand, and move the elevator with the other hand and reset it on the desired notch.

 The rear sight may also be adjusted to shoot right or left (windage). Loosen the windage adjustment screws by
- turning them counterclockwise. Move the sight to the right to make the pellet hit to the right on the target. Move the sight to the left to make the pellet hit to the left of the target. Then tighten the windage adjustment screws by turning them clockwise.

6. Removing a Jammed Pellet

A jammed pellet is usually the result of trying to fire the airgun when the pressure is too low. Before firing the airgun make certain there is sufficient pressure for proper operation. The gauge needle should be pointing to an area in the green zone on the gauge (see Figure 5).

AWARNING: In this procedure you will put a cleaning rod down the barrel of a charged airgun. It is extremely important that while you are doing this that the airgun be "ON SAFE", the bolt remain in open position and that your finger be kept away from the trigger. Always keep the airgun pointed in a safe direction. Failure to follow this warning may result in serious injury or death.

- Point the airgun in a SAFE DIRECTION.
 Put the airgun "ON SAFE".
 Open the bolt by pushing the bolt handle up and pulling it all the way back until you hear two clicks.
 With the bolt in the rearward position insert a ramnod of the proper size into the barrel (start at the muzzle).

The barrel could be damaged if the proper sized cleaning rod is not used NOTE: The bolt must be cocked and open for the jammed pellet to clear the breech when it is pushed out by the ram rod. Using the ramrod push the pellet into the pellet loading port (forward of the bolt), remove and discard the pellet.
 Do not reuse that pellet.

Point the airgun in a SAFE DIRECTION, close the action take "OFF SAFE" and fire. Put the airgun "ON SAFE".
If you are not able to unjam your airgun by following this procedure, take no further action. Crosman Corporation or

an Authorized Service Station will unjam your airgun. (no cost during the warranty period)

7. Maintaining Your Airgun
Put one drop of Crosman silicone chamber oil (part number RMCOIL) on the O-ring on the nose of the bolt every 6 months or every 2,000 shots.
DO NOT use petroleum-based lubricants with this airgun.

DO NOT use petroleum-based lubricants with this airgun.
Keep all petroleum-based lubricants away from the fill nipple. They MUST NOT be introduced into the high pressure chamber. Use of petroleum-based lubricants in this area could result in an explosion resulting in personal injury.
DO NOT MODIFY OR ALTER YOUR AIRGUN. Attempts to modify the airgun in any way inconsistent with this manual may make your airgun unsafe to use, cause serious injury or death, and will void the warranty.
If you drop your airgun, visually check 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. Call Cramman customer service for assistance before using your airgun again. service for assistance before using your airgun again.

8. Reviewing Safety

Never point the airgun at any person or at anything you do not intend to shoot.
Always treat the airgun as though it is loaded and with the same respect you would a firearm.
Always aim in a SAFE DIRECTION. Always keep the muzzle of the airgun pointed in a SAFE DIRECTION.

Always keep the airgun on safe until you are ready to shoot.
Always check to see if the airgun is "ON SAFE" and unloaded when getting it from another person or from storage.

Always keep your finger off the trigger and out of the trigger guard until ready to shoot.
You and others with you should always wear shooting glasses to protect your eyes.

 If your reading or prescription glasses are not safety glasses, make sure you wear shooting glasses over your • Use .177 calliber (4.5mm) pellets only in your .177 calliber Benjamin Discovery or use .22 calliber (5.5 mm) pellets only in your .22 calliber Benjamin Discovery. Never reuse ammunition. Use of any other ammunition can cause

injury to you or damage to the airgun.

• Do not shoot at hard surfaces or at the surface of water. The pellet may bounce off or ricochet and hit someone or

something you had not intended to hit.

Place the backstop in a location that will be safe should the backstop fail.

Your backstop should be checked for wear before and after each use. All backstops are subject to wear and will
eventually fail. Replace your backstop if the surface is worn or damaged or if a ricochet occurs.

Do not attempt to disassemble or tamper with your airgun. Use an Authorized Service Station. Using unauthorized repair centers or modifying the function of your airgun in any way may be unsafe and will void your warranty.
Always keep your CrosBlock® trigger block in place when storing this airgun. Store the airgun in a secure location. (See CrosBlock instructions packaged with this airgun for assistance)

Before you store your airgun make sure it is not loaded or cocked. Store this airgun charged with compressed air or CO₂ to keep the valves closed against dirt.

Whenever you store the airgun, make sure it is "ON SAFE."

SPECIFICATIONS

Fig 4

Fig 5

13	lb		
	Mechanism	Bolt action single shot	
	Power source	Compressed air or CO ₂ (CO ₂ requires an optional fill adapter)	
	Caliber/ammunition	Model BP1K77177 caliber lead pellet ■ Model BP9M2222 caliber lead pellet ■	
	Weight	5.2 lbs	
	Length	39 inches	
	Barrel	Rifled steel	
	Safety	Cross bolt	

REPAIR SERVICE

If your airgun needs repair, we recommend you take or send it to your nearest Crosman Authorized Service Station. DO NOT ATTEMPT TO DISASSEMBLE IT! Your airgun requires special tools and fixtures to repair it. Any disassembly or modification not performed by an Authorized Service Station will void the warranty.

A SPECIAL CUSTOMER SERVICE

rized Service Stations will unjam your airgun at no cost during the warranty period.

LIMITED ONE YEAR WARRANTY

This product is warranted to the retail consumer for one year from date of retail purchase against defects in material and work manship and is transferable. To register the serial number of your airgun, please return the airgun registration form. The warranty is not conditioned on the return of the card. You should retain the original sales receipt as record of date of purchase.

WHAT IS COVERED

Replacement parts and labor. Transportation charges to consumer for repaired product.

WHAT IS NOT COVERED

WHAT IS NOT COVERED

Transportation charges to Authorized Service Station for defective product. Damages caused by abuse, modification or failure to perform normal maintenance – see Owner's Manual. Any other expense. CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, OR INCIDENTAL EXPENSES INCLUDING DAMAGE TO PROPERTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY

HOW TO OBTAIN WARRANTY PERFORMANCE

U.S. Customers- Locate nearest service station (see www.Crosman.com or call Crosman customer service at 800-724-7486 for list of stations). The service station will give you details of how to proceed with sending the item in for repair. You must contact the station prior to shipping your product.

International Customers- Please return product to your nearest distributor. If you do not know your distributor, please call 585-657-6161 and ask for our International Department for assistance.

ANY IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO ONE YEAR FROM DATE OF RETAIL PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

To the extent any provision of this warranty is prohibited by federal, state or municipal law, which cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights and you may also have other rights, which vary, from state to state.

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