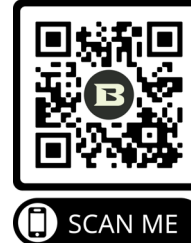


# BARRA

— AIRGUNS —

## 1866™ CO2 BB/PELLET AIR RIFLE



for in depth videos and walkthroughs



16+ YEARS

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All Rights Reserved. **MADE IN TAIWAN**  
**BARRAIRGUNS.COM**

READ ALL INSTRUCTIONS AND WARNINGS IN THIS MANUAL BEFORE USING THIS AIRGUN. BUYER AND USER HAVE THE DUTY TO OBEY ALL LAWS ABOUT THE USE AND OWNERSHIP OF THIS AIRGUN.

THIS PRODUCT IS INTENDED FOR USE BY THOSE 16 YEARS OF AGE OR OLDER. Please read this owner's manual completely. Remember to treat this airgun 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.

### PLEASE DO NOT RETURN PRODUCT TO STORE

For product assistance or questions, please contact Customer Service:  
Email: [help@barrairguns.com](mailto:help@barrairguns.com)  
Phone: 1-510-296-3250  
You can get answers to frequently asked questions at [www.barrairguns.com](http://www.barrairguns.com)

**WARNING:** THIS PRODUCT AND PACKAGE MAY CONTAIN CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. WASH HANDS AFTER PRODUCTIVE HARM. [WWW.P65WARNINGS.CA.GOV](http://WWW.P65WARNINGS.CA.GOV)  
**WARNING:** Choking Hazard-small parts. ACTUAL COLORS AND DECORATIONS OF THE PRODUCT MAY VARY.

# BARRA

— AIRGUNS —



@BarraAirguns

## 1 WARNINGS: (Restricted to users 16 years of age or older)

**WARNING:** This sport gun was developed for enjoying sport shooting only. As the air gun has the potential risk of serious injury such as blindness and damage to property, please read all instructions and warnings in this manual before using this air gun.

**WARNING:** DO NOT exceed temperatures above 120°F (43.3°C) or below 20°F (-6.6°C).



Always wear goggles or eye protective gear when shooting.



Never point the muzzle at unprotected people or animals.



Always keep the air gun out of reach of children.



Disassembling or modifying air gun may affect the gun's performance and void manufacturer's warranty.



Never look directly down the barrel of this BB/pellet gun.



Remove cartridges, CO<sub>2</sub>, and set the fire select switch to "SAFE" when not in use.



Never put your finger on the trigger unless you are ready to fire.

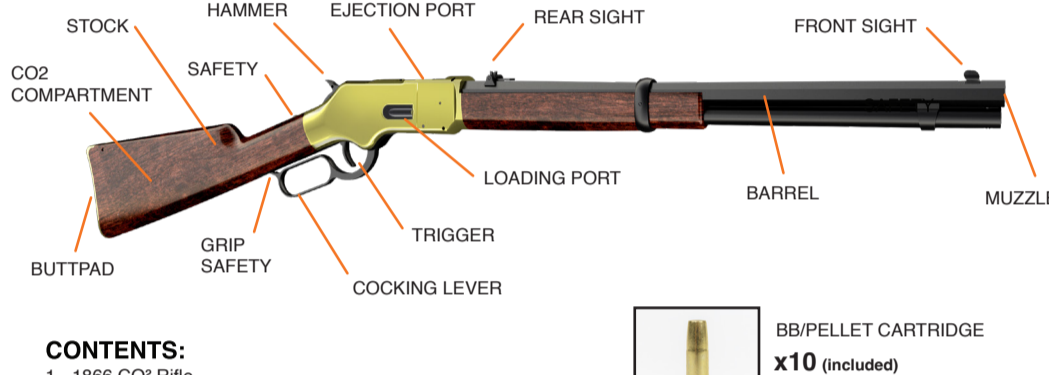


BBs/pellets may still fire, even if the cartridges are removed.

**WARNING:** THIS PRODUCT IS NOT A TOY. ADULT SUPERVISION REQUIRED. THIS PRODUCT IS INTENDED FOR USE BY THOSE 16 YEARS OF AGE OR OLDER. MISUSE OR CARELESS USE MAY CAUSE SERIOUS INJURY (ESPECIALLY TO THE EYE) OR DEATH. EYE PROTECTION MUST BE WORN AT ALL TIMES BY THE USER AND ANY PERSON WITHIN RANGE. READ ALL INSTRUCTIONS AND OWNER'S MANUAL BEFORE USING. BUYER AND USER HAVE THE DUTY TO OBEY ALL LAWS ABOUT THE USE AND OWNERSHIP OF THIS BB AIR GUN. THIS AIR GUN IS RECOMMENDED FOR ADULT USE ONLY. MAY BE DANGEROUS UP TO 425 YARDS (388 METERS).

**WARNING:** DO NOT BRANDISH OR DISPLAY AIR GUNS IN PUBLIC. IT MAY CONFUSE PEOPLE AND MAY BE A CRIME. POLICE AND OTHERS MAY THINK IT IS A FIREARM. DO NOT CHANGE THE COLORING AND MARKINGS TO MAKE IT LOOK MORE LIKE A FIREARM. THAT IS DANGEROUS AND MAY BE A CRIME. PLEASE REMOVE ALL PACKAGING MATERIAL BEFORE USING. IF PRODUCT BECOMES DAMAGED OR BROKEN IN ANY WAY, DISCONTINUE USE. USING DAMAGED PRODUCT MAY CAUSE DAMAGE OR LEAD TO INJURY.

## 2 Contents & Getting to Know Your Gun



**CONTENTS:**  
1 - 1866 CO<sub>2</sub> Rifle  
1 - Allen Key  
10 - Ejecting Metal Cartridges

BB/PELLET CARTRIDGE  
**x10** (Included)  
Additional Cartridges available at [barrairguns.com](http://barrairguns.com)

Specification	Barrel Length	Barrel Caliber	Capacity	BB/Pellet	Velocity
1866 CO <sub>2</sub>	462.5mm	.177 cal/4.5mm	10 Rounds	1.77 cal/4.5mm steel BBs/Pellets	550-600 FPS (with steel BBs)
.177 cal - Smoothbore Barrel					
1866 CO <sub>2</sub>	476.5mm	.177 cal/4.5mm	10 Rounds	.177 cal/4.5mm Pellets ONLY	420-525 FPS (Pellet)
.177 cal - Rifled Barrel					
1866 CO <sub>2</sub>	476.5mm	.22 cal/5.5mm	10 Rounds	.22 cal/5.5mm Pellets ONLY	370-450 FPS (Pellet)
.22 cal - Rifled Barrel					

**WARNING:** DO NOT fire .177 cal Steel BBs through a rifled barrel. Firing BBs through a rifled barrel may cause damage to the rifling reducing accuracy and function of the rifle.

.177 cal (smoothbore barrel) - Can fire BBs or Pellets  
.177 cal (with rifled barrel kit) - Pellets ONLY  
.22 cal (with rifled barrel) - Pellets ONLY

## 3 CO<sub>2</sub> Installation (CO<sub>2</sub> Sold Separately)

**WARNING:** Use ONLY 12g CO<sub>2</sub> Cylinders. Any attempt to use other types of gas cylinders or failure. Since backstop surfaces eventually fail, always place the backstop in a location that will be safe should the backstop fail. Discontinue the use of a backstop if the projectile rebounds or ricochets.

**WARNING:** CO<sub>2</sub> cylinders contain gas under pressure, whether or not it has been inserted into the gun. If exposed to high temperatures (such as inside of a closed car and/or direct sunlight, it could explode. Do not expose CO<sub>2</sub> cylinders to temperatures above 120°F. Store all cylinders in a cool place.

**WARNING:** Never attempt to reuse a CO<sub>2</sub> cylinder for any purpose. Keep hands and face away from the CO<sub>2</sub> cylinders. Escaping CO<sub>2</sub> gas is very cold and can cause serious injury to you or others. Take great caution in handling CO<sub>2</sub> cylinders. Always make sure the CO<sub>2</sub> cylinder is empty before attempting to remove it from the air gun by slowly turning the knob counter-clockwise all the way until you no longer hear the CO<sub>2</sub> gas escaping.

## 10 Troubleshooting Guide

Status	Cause	Action
No action.	Safety is locked.	Release the safety.
	Insufficient gas release or at a very low temperature.	Replace the CO <sub>2</sub> Cylinders or place the rifle indoors to restore ambient temperature.
The BB bullet does not eject out of the barrel.	Deformed BB. The barrel is clogged with something.	Use only 4.5mm steel BBs. Remove the material from the barrel.
The firing of the gun is not smooth while firing BB	The ambient temperature is too low (in winter or cold weather) Place the rifle indoors to restore ambient temperature.	Place the rifle indoors to restore ambient temperature.
	Low gas pressure in the magazine. The trigger doesn't work.	Replace the CO <sub>2</sub> cylinders. Please contact customer service and ask for assistance.
	Poor lubrication.	Lubricate with 100% Silicon oil.
Short projectile.	Spring is worn out. The CO <sub>2</sub> discharging mechanism is broken.	Please contact customer service and ask for assistance.

The purchase of this Barra Airguns product entitles you to 1 year replacement guarantee from the date of purchase with registration on the [barrairguns.com](http://barrairguns.com) site. Please go to the warranty section of the site and activate your 1 year warranty by registering the purchase within 30 days. Failure to register within 30 days from the date of purchase will void the warranty after the 30 days. We love our customers and believe in our product. If at any time during the warranty period your product fails to work because of manufacture defects, please contact our customer service and we will give you the instructions on how to get your warranty replacement.

Email: [help@barrairguns.com](mailto:help@barrairguns.com) • Phone: 1-510-296-3250

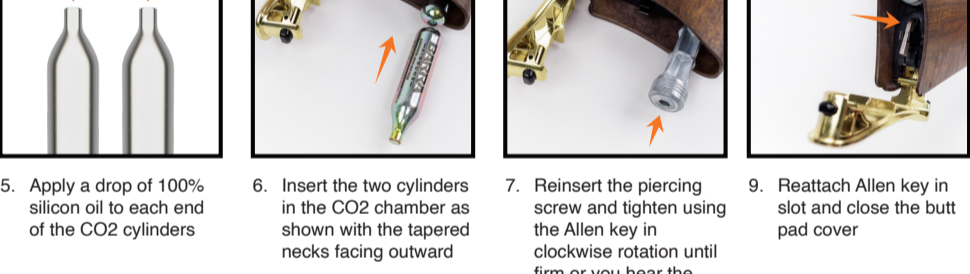
NOTE: The customer is responsible for freight charges to BARRA Airguns. BARRA Airguns will be responsible for freight charges back to the customer.

## To Load CO<sub>2</sub> Cylinders



If your rifle does not make a noise indicating a release of air after you pull the trigger then CO<sub>2</sub> is not being released. Set the SAFETY in "SAFE" position and check to make sure that the cylinders were pierced.

## 4 Loading & Unloading the Cartridges



- To Load BBs or Pellets
- Switch Safety to "SAFE" position
- Load 1 steel BB or pellet at the back of each cartridge until it is seated flush with the back of the cartridge (Do not load more than one projectile in a cartridge)
- Load cartridges into the internal tube magazine by placing the tip of the cartridge against the loading door in the receiver and press cartridge forward all the way (You should hear a click)
- Continue loading up to 10 cartridges into the magazine

## 8 Advanced Maintenance & Disassembling

### Advanced Maintenance

- To ensure the life of the air gun, routine inspections and maintenance should be performed.
- Advanced maintenance and disassembling of this air gun includes lubricating and cleaning the parts of the gun that are difficult to reach.
- For the most up to date authorization maintenance instructions, please visit [www.barrairguns.com](http://www.barrairguns.com) or contact our customer service at 1-510-296-3250 or email at [help@barrairguns.com](mailto:help@barrairguns.com).
- Modification of the gun mechanism may cause a gun to malfunction, and tampering with a gun may make it unsafe to use.
- Any change in the air gun's performance, such as lowered trigger force and shortened trigger travel may indicate possible wear and should be inspected, replaced, or properly repaired. Repairs should only be made by qualified personnel.
- Unauthorized tampering of this air gun will void the manufacturer's warranty.

**WARNING:** Any advanced cleaning of the air gun should be done by an adult, ages 16 years or older, preferably someone with advanced air gun knowledge and training. For tutorials and step by step instructions, please call our customer service at 1-510-296-3250 or email at [help@barrairguns.com](mailto:help@barrairguns.com).

### 9 Aiming and Firing Safety

- Always assume and treat guns as if they were loaded and ready to fire.
- Always handle and operate air guns safely
- User should obey all laws regarding the usage and ownership of air guns.
- Misuse or careless use may cause serious injury.
- Always point your air gun in a SAFE DIRECTION.
- NEVER POINT your air gun at people or animals even if it is not loaded.
- Air guns are not toys. They should only be used under adult supervision. Safety is a straightforward but continuous process.
- THE UNSUPERVISED USE OF AIR GUNS IS NOT RECOMMENDED FOR PERSONS UNDER 16 YEARS OF AGE.
- Think first, fire second.
- Facial protection is required. You and others with you should always wear eye protection.
- Replace the CO<sub>2</sub> if the firing cycle become slow or stops.
- Always use hearing protection.
- Always keep your fingers away from the trigger during loading and handling. Keep your finger away from the trigger and SAFETY to "SAFE" until you are ready to fire. After firing, return safety to the "SAFE" position.
- Never insert items other than a metal BBs/pellets into the cartridge or gun barrel.
- Always be certain of what is behind your target. Use extra precaution in selecting a safe target. Improper targets may cause ricochet.
- Do not fire at a target which allows ricochets or deflections. Do not fire into or at water, or hard surfaces.
- Never use drugs or alcohol while handling this air gun.
- The air gun and BBs/pellets should be kept in separate and secured places. Always keep the air gun out of reach of children.
- After use and before putting the air gun away, always make absolutely sure that there are no BBs/pellets in the cartridges, the safety is set to "SAFE" and the CO<sub>2</sub> cylinders are removed.
- It is possible that BBs/pellets may fire even if the cartridge is removed. Direct the barrel towards a SAFE AREA. Pull the trigger to confirm no BBs/pellets remain in the gun.
- DO NOT load the air gun until you are ready to fire. Do not walk, run, jump or climb when carrying a loaded air gun. A loaded air gun should never be carried inside a vehicle. Always keep the safety to "SAFE", even after the air gun is unloaded.
- DO NOT use BBs/pellet because they could possibly cause damage to you or your air gun.
- Your air gun is designed for target shooting and is suited for outdoor use only. Always remember to place your target carefully. THINK about what you will hit if you miss the target.
- Always keep the SAFETY to "SAFE" until you are ready to shoot in a SAFE DIRECTION.
- After an extended firing session, the low temperature of the CO<sub>2</sub> will cause a reduction in gas pressure and a decrease in the BB/Pellet velocity. Allow the CO<sub>2</sub> to warm back up and resume shooting.
- Never shoot the gun upside down. This will cause unpredictable results and may damage your gun.
- Always use precision steel BBs/pellets for this airgun. Never use any used or damaged ammunition.

## 5 Firing Operation

**WARNING:** WARNING This air gun comes with a safety feature that can help prevent accidental firing. Like any mechanical device, if any mechanical device, never rely on the safety to prevent accidental firing. Never point this air gun at anything you do not intend to shoot.



**WARNING:** Keep the SAFETY to "SAFE" until you are actually ready to shoot. Then switch SAFETY to "FIRE" and fire in a SAFE DIRECTION.

## 6 Safe Shooting

### FIRING NOTICE:

- Confirm your firing area is safe before firing.
- Replace the CO<sub>2</sub> if the firing cycle become slow or stops.
- If bullets are clogged, stop firing and remove or clogged pellets immediately (see Section 7).
- Service the air gun with silicone oil as daily maintenance (see Section 7).
- Backstops should be inspected for wear before and after each use. Discontinue use if the backstop surface shows signs of failure. Since backstop surfaces eventually fail, always place the backstop in a location that will be safe should the backstop fail. Discontinue use of a backstop if the projectile rebounds or ricochets.
- After firing all BBs/Pellets, the gun will keep releasing air however there will be BBs/Pellets fired. To resume firing, insert new BBs/Pellets into Cartridges (see Section 4).
- After an extended firing session, the low temperature of the CO<sub>2</sub> will cause a reduction in gas pressure and a decrease in the BB/Pellet velocity. Allow the CO<sub>2</sub> to warm back up and resume shooting.
- Never shoot the gun upside down. This will cause unpredictable results and may damage your gun.

### To Store Gun

- After you are done shooting, empty remaining BBs/Pellets by firing in a SAFE DIRECTION and turn SAFETY in "SAFE" position.
- Make sure that no BBs/Pellets remain in the gun.

## To Take Out CO<sub>2</sub> Cylinder

- Do not remove the CO<sub>2</sub> cylinder without first depleting the CO<sub>2</sub>.
- To deplete the CO<sub>2</sub>, point gun with an empty chamber in a SAFE DIRECTION, and fire the gun until the CO<sub>2</sub> cylinders are depleted.
- Refer to Section 3 for loading CO<sub>2</sub> cylinder.
- Remove the BB/pellet cartridges.
- Store your air gun in a safe, cool place in a secure location away from unauthorized users.

**WARNING:** Use extreme caution while depleting the CO<sub>2</sub> cylinder, as rapid release of the CO<sub>2</sub> will cause the magazine to drop dramatically in temperature. Never point the top of the magazine at anyone including yourself while depleting the CO<sub>2</sub> cylinder. Only deplete in a well ventilated area.

**WARNING:** Higher operating temperatures will increase the CO<sub>2</sub> pressure and the speed of the BB/pellet, while lower operating temperatures will decrease the CO<sub>2</sub> pressure and the speed of the BB/pellet. Keep CO<sub>2</sub> cylinders in a cool, safe place, if temperatures exceed 120°F, the cylinder may burst or explode. Avoid contact with the gas as it may cause harm or injury.

## 7 Basic Maintenance (Removing Jams & Gun Cleaning)

### Cleaning Jammed BBs/Pellets

The most common reason for the barrel jamming is shooting when the CO<sub>2</sub> cylinders are almost out of gas. Stop shooting as soon as the point of impact drops significantly or you hear a drastic drop in noise. Change to fresh CO<sub>2</sub> cylinders before you resume shooting.

Another cause of a jammed barrel is using poor quality ammunition, reusing ammunition, or loading dirty or damaged BB/pellet shells. Use the proper caliber ammunition, never reuse ammunition, and inspect BB/pellet shells for dirt and damage while reloading. Remove and replace when necessary.

If you do experience a jam, immediately stop shooting. Clean the CO<sub>2</sub> cylinders. Remove all shells from the rifle by working the lever until all of them have been ejected. Once the last shell has been ejected, leave the lever in the open position. Insert a brass or aluminum cleaning rod into the muzzle and push the jam out. Be sure the jam doesn't get lost in the action in the process.

### Cleaning the Barrel

- Maintenance is needed when BB/pellet speed becomes slow.
- Make sure the SAFETY is set to "SAFE" and pointed in a SAFE DIRECTION.
- Remove the BB/pellet cartridges.
- Cut a strip of cotton cloth the width of an eyelid hole and rotate the cloth around a cleaning rod.
- Insert the cleaning rod into the barrel of the gun while slowly twisting down the muzzle.

### Oiling Your Air Gun

- Lube and Oil maintenance is needed often – generally after every occasion you use your gun.
- Use only 100% silicone oil to spray specifically in the locations pictured below:

