

## 14 Non-Liability and Warranty

**STATEMENT OF NON-LIABILITY:** Air guns can cause serious harm, and in some instances, even death and should be handled with great care! This air gun is surrendered by **Barra** with the express understanding that we assume no liability for its resale, handling use or possession under local laws or regulations. Neither the manufacturer nor **Barra** assumes any responsibility whatsoever. Personal injury or property damage resulting from either intentional or accidental discharge or for air gun functions subjected to influences beyond our control, are the sole responsibility of the air gun owner. We will honor no claims that may result from careless handling, unauthorized adjustments, defective or improper ammunition, corrosion or neglect. By accepting this air gun, the buyer agrees to release the seller and Moab Ventures and all associated persons from liability for any damage to persons or property that may result, for any reason, by using this air gun. Safety is your responsibility.

**WARRANTY:** This Barra Air Gun is warranted against manufacturer defects and workmanship with proof of purchase for one year after the original purchase date. This warranty does not cover damages due to modifications, abuse or failure to perform regular maintenance.

For warranty questions, or to speak with one of our customer service representatives, please contact:

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

**NOTE:** The customer is responsible for freight charges to Barra. Barra will be responsible for freight charges back to the customer.

**WARNING:** Please check any gun that has been dropped to ensure that its function has not been affected.

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**READ ALL INSTRUCTIONS AND WARNINGS IN THIS MANUAL BEFORE USING THIS AIR GUN.**

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

**IMPORTANT: THIS PRODUCT IS INTENDED FOR USE BY THOSE 10 YEARS OF AGE OR OLDER. ADULT SUPERVISION REQUIRED.**

DO NOT USE your air gun until you have carefully read these cautions, the owner's manual and all other printed material with this air gun. THIS IS AN AIR GUN AND CAN CAUSE INJURY OR DEATH. Misuse may void your warranty and may expose you and others to possible harm! A few minutes now will increase the longevity of your air gun. Remember to treat this air gun 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@barraairguns.com](mailto:help@barraairguns.com)  
Phone: 1-510-296-3250  
You can get answers to frequently asked questions at [www.barraairguns.com](http://www.barraairguns.com)

### WARNING:

DO NOT BRANDISH OR DISPLAY AIR GUNS IN PUBLIC. IT MAY CAUSE 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.

ACTUAL COLORS AND DECORATIONS OF THE PRODUCT MAY VARY.

## 1 WARNINGS: (Restricted to users 10 years of age or older.)

**WARNING:** Always keep the air gun pointed in a SAFE DIRECTION! Treat all air guns as if loaded! DO NOT RELY ON THE SAFETY MECHANISM.

**WARNING:** This sport gun was developed for enjoying sport shooting only. As the Air Gun has the potential risk of serious bodily injury, particularly to the eye, or death, or causing damage to property, please read all instructions and warnings in this manual before using this air gun.

**WARNING:** This is a high power air gun recommended for use by those 10 years of age or older. Read all the instructions before using. The purchaser and user should conform to all laws governing use and ownership of air guns.



**WARNING:** FOR AGES 10 YEARS OR OLDER. NOT A TOY. ADULT SUPERVISION REQUIRED. MISUSE OR CARELESS USE MAY CAUSE SERIOUS INJURY, PARTICULARLY TO THE EYE. MAY BE DANGEROUS UP TO 300 YARDS (275 METERS).

READ ALL INSTRUCTIONS AND OWNER'S MANUAL BEFORE USING. SHOOTING GLASSES SHOULD BE WORN AT ALL TIMES BY YOU AND THOSE WITH YOU, THE PURCHASER AND USER HAVE THE DUTY TO OBEY ALL LAWS GOVERNING THE USE AND OWNERSHIP OF THIS AIR GUN.

**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 COLORATION AND MARKINGS TO MAKE IT LOOK MORE LIKE A FIREARM. THAT IS DANGEROUS AND MAY BE A CRIME. PLEASE REMOVE ALL PACKING MATERIAL BEFORE USE. IF PRODUCT BECOMES DAMAGED OR BROKEN IN ANY WAY, DISCONTINUE USE. USING DAMAGED PRODUCT MAY CAUSE DAMAGE OR LEAD TO INJURY.

## Poor Accuracy. Possible Causes:

- Dirty Bore.** Most accuracy complaints are traced to an unclean bore. Even a barrel which appears to be clean may be shooting well below its potential.  
**Solution:** Clean bore with cleaning rod or cleaning pellets.
- Not Using Special Shooting Techniques.** Proper shot follow through will aid in better accuracy. The length of the barrel on the gun makes the gun more sensitive to movement.  
**Solution:** Due to the time it takes for the ammo to leave the barrel, you should practice holding your shot position until shot impact is either seen or heard.
- Improper Lubrication.** In some cases lubrication can affect accuracy.  
**Solution:** We recommend following the lubrication instructions noted in this manual.
- Incorrect or Defective Ammo.** Keep in mind that each air rifle is unique and it requires some experimentation to find the type of pellets and BBs that will work best. Damaged pellets will not shoot well and may damage the air gun.  
**Solution:** Use only new flawless high quality ammo.

## 13 Reviewing Gun Safety

- Treat all air guns as if they were loaded and with the same respect you would an actual firearm. Follow safe air gun handling practices. Remember that air guns can be dangerous if mishandled. Airguns are not toys; they can cause serious injury or even death. For proper training and information contact your local air clubs and/or the National Rifle Association.

- User should obey all laws regarding the usage and ownership of air guns. Misuse or careless use may cause serious injury or death.

- Normal operation temperature of airguns is approximately 20° to 110°F (-6° to 42°C).

- Always check to see if the air gun is loaded when removed from storage or received from another person! A projectile may be in the barrel without being easily visible! Never fire, even unloaded, air guns against any part of your body.

- Never allow anyone, especially youth, to use an airgun loaded or unloaded until they are fully trained in airgun safety and proper use!

- Adjustments and repairs should be made only by specialized technicians. Never use a malfunctioning air gun.

- Store the airgun in a safe and proper place, secure from unauthorized use! Locking it up is best. Always keep securely away from children.

- Shoot safely. Do not pump more than once. Air gun projectiles may travel up to 300 yards (275 meters). Be sure of your backstop. Avoid ricochets. Do not shoot at hard surfaces. Shooters and bystanders should always wear shooting glasses during firing sessions. NEVER depend on any "safety."

- Select a safe place for operating the air gun. Avoid shooting in public places.

- Always put the gun in a case or bag when you are carrying it to avoid giving rise to public panic.



Be a Safe Shooter! Safety is Your responsibility!

## FIRING SAFETY:

- Repairs should only be made by specialized technicians. Please contact our customer service for more information by calling 1-510-296-3250 or email them at [help@barraairguns.com](mailto:help@barraairguns.com).
- Never look down the end of the muzzle down the barrel!
- Secure your unloaded/unpumped air gun from unauthorized use by locking it up safely and separately from ammo when not in use.
- Never depend on any safety mechanisms. All safeties are mechanical devices and therefore subject to failure.
- Be sure your airgun is unloaded when crossing a fence, stream, or other barrier; letting go of it for any reason; putting it away; allowing another person to handle it; or entering a house or vehicle.
- Always point the 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 operated by persons 10 years or older and with adult supervision by an adult of 18 years of age or older.
- Safety is a straight forward but continuous process.
- Never use drugs or alcohol while handling this air gun.
- Always check to see if the air gun is on "SAFE" and unloaded when getting it from another person or from storage.
- BBs should never be shot in a pellet trap.
- Use targets that will not be penetrated or that cannot cause a ricochet. Do not shoot at or near water.
- Keep muzzle of gun clean. Avoid contact with the ground or anything that could obstruct the barrel.

## 12 Troubleshooting Guide

Note: Most problems encountered by new owners are often easily corrected. Regular maintenance is a must for long time use.

### Air Gun Doesn't Take in Air while Pumping:

- Shooter Error:** The Air Gun has a built in safety that won't allow pumping until the bolt has been pulled back.  
**Solution:** Bring the bolt all the way back and begin pumping.
- Shooter Error:** Shooter may not be bringing bolt all the way back.  
**Solution:** Bring bolt all the way back until it stops and gradually increase pressure until a final click is felt. DO NOT force.

### Air Gun Does Not Shoot Possible Causes:

- Safety in the "ON" position.** Always check safety before forcing trigger.  
**Solution:** Put the safety in the "FIRE" position manually. Always point the air gun in a SAFE DIRECTION before releasing safety.
- Air Gun is not properly pumped or loaded:** Projectile will not fire if not pumped or bolt is open.  
**Solution:** Refer to section 3 for step by step pumping. See section 4 for loading.
- Projectile is Jammed:** This is a very dangerous situation. Place the gun safely to ON and open the bolt.  
**Solution:** Refer to section 7 for step by step un-jamming a projectile.
- Air Gun's Seal may be broken:** Air gun may have been dropped or defective.  
**Solution:** Please contact our customer service line for more details by calling 1-510-296-3250 or email them at [help@barraairguns.com](mailto:help@barraairguns.com)

**WARNING:** Only have specialized air gun technicians repair air gun. Tampering with and adjusting the internal workings of the gun may void the manufacturer's warranty and can cause personal injury when improperly handled. Call our customer service line for more details on repair at 1-510-296-3250 or [help@barraairguns.com](mailto:help@barraairguns.com)

## 2 Getting To Know Your Gun

### Contents:

- Barra 1866 Junior Airgun
- User Manual & Warning Card
- .177 BB Door
- Safety mechanism
- Rifled steel barrel
- Open sights
- Pump Handle
- Pellet door

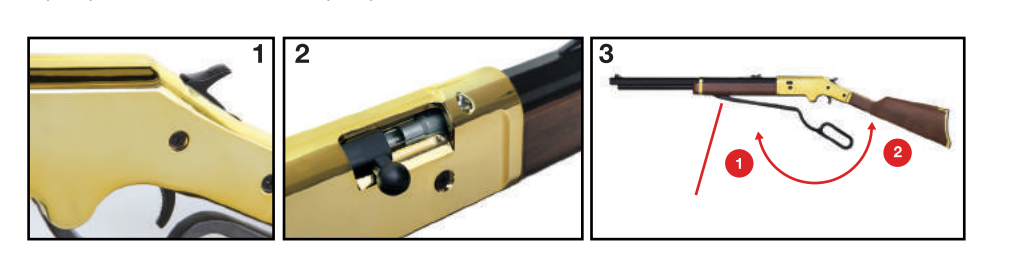
Specification	Weight	Length	Barrel Length	Pellet	BB	Max Velocity
1866 Air Rifle	2.6lbs / 1.2kg	32" / 81cm	17.9" / 45.5cm	.177 Cal 4.5mm / 17.9" Single shot	.177 Cal 4.5mm / 50 shot capacity	350 FPS (with .177 cal pellets)

## 3 Pumping Your Air Rifle

**WARNING:** KEEP YOUR HANDS AND all other objects AWAY FROM THE TRIGGER AND SAFETY during ALL pumping, and loading procedures! WATCH FOR "PINCH POINTS."

### Pumping Your Air Gun

- Your air gun is powered by a compressed air system that must be pumped before use.
- Start by making sure the safety is in the ON position. Do this by placing the hammer forward. The safety looks like a hammer. The red dot is hidden. See image 1.
- With the Safety ON, open the bolt handle (located on the right side of the gun), by pulling it straight back. See image 2. The rifle cannot fire with bolt open.
- Avoiding the trigger area and any pinch points. See image 3.
- NOTE:** The Air Gun has a built in safety that won't allow pumping until the bolt has been pulled back.
- With the bolt open, the SAFETY ON, and the muzzle pointed in a SAFE DIRECTION, pull the pump handle down by applying firm but steady pressure. Then, swing the handle all the way forward until you hear it take in air. See image 3.
- Then, bring the pump handle all the way back to the starting position. This is one pump. NEVER pump more than 1 time. One pump is the maximum



## 10 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 authorized maintenance instructions please go to [www.barraairguns.com](http://www.barraairguns.com) or contact our customer service by calling 1-510-296-3250 or email them at [help@barraairguns.com](mailto:help@barraairguns.com)
- Modification of the gun mechanism may cause a gun to malfunction and tampering with a gun may make it unsafe to use.
- Unauthorized tampering of this air gun will void the manufacturer's warranty.
- Moab Ventures will not be held responsible for any damages or accidents caused by incorrect operation, disassembly, or modification of the air gun.

**WARNING:** Any advanced cleaning of the air gun should be done by someone with advanced air gun knowledge and training. For tutorials and step by step instructions please visit our website at [www.barraairguns.com](http://www.barraairguns.com) or contact our customer service by calling 1-510-296-3250 or email them at [help@barraairguns.com](mailto:help@barraairguns.com)

## 11 Reviewing Safety

### FIRING SAFETY:

- Shoot your air gun shortly after pumping and loading. It is not advisable to leave the air gun pumped for extended periods of time.
- Do not attempt to unpump your airgun! If you have pumped your air rifle, loaded a pellet and decided not to take the shot in a reasonable amount of time, do not leave your air gun pumped.
- Avoid excessive force in opening and shutting the bolt.
- Protective eyewear is a must for all air gun shooters and spectators.
- Confirm your firing area is safe before firing. Think first, fire second.
- NEVER depend on any "SAFETY." A safety is still just a mechanical device and, therefore, may be subject to failure. There is no substitute for safe gun handling.
- NEVER leave this air gun pumped or loaded! Avoid leaving the compressed air of the air gun under full compression for extended periods. This could lead to a delay from the time the trigger is pulled until the projectile is expelled from the gun. It is best to pump just before firing. Leaving your gun pumped for more than one hour may cause permanent damage to the air release valve.
- After shooting session is completed, return safety to the right "SAFE" position.
- When gun is not in use, store unloaded gun in a SAFE PLACE away from children.

**WARNING:** DO NOT DEPEND ON ANY SAFETY MECHANISM! KEEP POINTED IN SAFE DIRECTION AT ALL TIMES!

**WARNING:** The more times you pump the gun increases the risk of serious injury. Use great caution and only use the amount of pumps necessary for the shot. NEVER PUMP YOUR GUN MORE THAN 1 TIME as additional pumps may result in serious injury or damage your gun and void the warranty.

**WARNING:** Do not open the bolt, close the bolt, and then pull the trigger before pumping! This procedure can result in a LOADED GUN and a projectile being expelled from the gun during pumping. Re-cock the gun by opening the bolt and pull the trigger safely to the ON position and follow the pumping procedures above.

## 4 Loading Your Air Rifle

### Loading The Air Gun with BBs

- Push forward and open the loading door on the left side of the rifle. See image 4.
- Fill the internal magazine with roughly 50 .177 cal/4.5mm BBs. Do not overfill as this may cause the feeding system to not operate properly.
- Close loading door.
- Next, with the Bolt back, the SAFETY ON, and the top of the gun facing upright, tilt the muzzle of the gun upwards from 45° to 90°. See image 5.
- With gun tilted upward, look inside the loading port, and you should be able to see a BB lightly resting on the magnetic tip. See image 6.
- If there is not a BB on the loading tip, gently shake the gun until one feeds onto the tip.
- After confirming the projectile is in place, push the bolt handle forward all the way and lock it, closing the loading port from view. The BB is now chambered and in the firing position.

**WARNING:** The airgun is now loaded and ready to fire. Be sure the airgun is always pointing in a SAFE DIRECTION — away from any person or anything you do not intend to shoot.



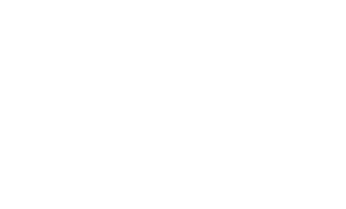
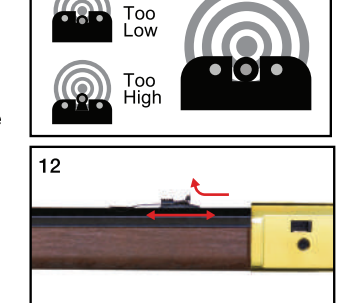
**WARNING:** Always check that the BB or Pellet is in place when closing the bolt and loading port. BBs feed from the internal magazine by gravity which requires the muzzle to be raised. NEVER ASSUME THE MAGAZINE OR CHAMBER IS EMPTY even if the gun does not fire a projectile.

**WARNING:** USE ONLY THE PROPER .177 CAL (4.5MM) LEAD OR HIGH QUALITY PELLETS. Use of any other projectile may have harmful oils, abrasive material, or create excessive space around the pellet. USE ONLY NEW LEAD OR HIGH QUALITY PELLETS. Use of other projectiles such as steel, plastic sheathed, zinc or darts or previously fired, low quality, or deformed pellets will damage your air gun, and may cause dangerous ricochet. Do not use damaged pellets, pellets that have been fired before, or unauthorized projectiles. These can be unsafe and damage your air gun.

## 9 Sights

### Sight Aiming and Adjustments

- For the best accuracy, align the rear sight with the front sight and shoot directly at a safe target. The three sights should be perfectly aligned. See image 11.
- Because of this air gun's power, use extreme caution when shooting. Be sure of your backdrop and what is cast in its case the backdrop falls. Only use targets designed for the right ammunition and power of airgun you are using.
- To adjust the elevation (height), push up on the rear sight toward the muzzle and slide ramp in the direction you want the sight to go. Sliding it forward will decrease the height, pulling back will increase height. The steps on the ramp will allow you to lock in the sight. See image 12.



## Loading The Air Gun with Pellets

- Make sure the bolt is open, and the internal magazine is emptied of extra BBs. (See section 6).
- Lower the muzzle slightly and load a .177 cal/4.5mm lead or high quality alloy pellet into the loading port with the solid end facing forward. See image 7.
- Push the bolt forward the rest of the way, and lock it. The pellet is now chambered and in the firing position.



**WARNING:** The airgun is now loaded and ready to fire. Be sure the airgun is always pointing in a SAFE DIRECTION away from any person or anything you do not intend to shoot.

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

## 5 Safety and Firing



### Selecting Firing Mode

- Locate the safety inside of the trigger guard, and in front of the trigger.
- The "SAFE" position is when the hammer is in the forward position. The hammer is the safety on this airgun. "FIRE" position is when the hammer is cocked back. Red dot is visible.
- The safety should always be engaged to the "SAFE" position when you pump the air rifle. (It is always a good idea to double check the Safety to make sure it is in the "SAFE" position).
- Once the projectile is loaded in the loading port and the rifle is adequately pumped, the projectile will be ready to fire (USE EXTREME CAUTION). Push the Safety forward from "SAFE" to "FIRE", exposing the red mark, and pull trigger and fire in a predetermined SAFE DIRECTION.
- Repeat the steps in section 3 to pump and/or load the air gun again to continue shooting. (Note: Bolt must be completely closed and locked to fire.)
- If you are not going to shoot the pumped rifle immediately, make sure safety is in the "SAFE" position.
- Don't operate the trigger when the safety is in the "SAFE" position (It may cause damage).
- NEVER depend on any "SAFETY." A safety is still just a mechanical device and, therefore, may be subject to failure. There is no substitute for safe gun handling.
- NEVER leave this air gun pumped or loaded! Avoid leaving the compressed air of the air gun under full compression for extended periods. This could lead to a delay from the time the trigger is pulled until the projectile is expelled from the gun. It is best to pump just before firing. Leaving your gun pumped for more than one hour may cause permanent damage to the air release valve.
- After shooting session is completed, return safety to the right "SAFE" position.
- When gun is not in use, store unloaded gun in a SAFE PLACE away from children.

**WARNING:** DO NOT DEPEND ON ANY SAFETY MECHANISM! KEEP POINTED IN SAFE DIRECTION AT ALL TIMES!

## Quick Step Disassembling Guide

- Put "ON" SAFETY
- Open Bolt
- Pump
- Load
- Close Bolt
- Aim
- Take "OFF" SAFETY
- Fire

**WARNING:** If a projectile does not fire from the loaded rifle, the RIFLE IS JAMMED. This is a very dangerous situation. Handle the air rifle carefully and refer to section 7 on removing Jams.

## 6 Unloading Your Air Rifle

### Unloading the Air Rifle and Magazine for BBs

- Make sure the safety is ON and pull the bolt back all the way. Open the bb door and hold a cupped hand to the hold as you tilt that side of the gun down. Shake the gun until all the BBs are removed. Then remove the BBs from the loading port by moving the bolt slightly forward until no BBs remain. Finally, close bolt, make sure the safety is ON, and store the gun in a safe place away from children.

### Unloading Air Rifle and Magazine for Pellets

- If already loaded: Removing the pellet is inadvisable and doing this with a sharp object could seriously damage the delicate rifling. The best course of action is to shoot the airgun into soft ground, a pellet trap or thick pile of newspapers or magazines. If a safe target is not available, open the bolt make sure the safety is ON, and run a cleaning rod down the muzzle end of the barrel pushing the pellet through or barrel. Be careful not to let the pellet fall back into the back BB feed hole of the gun. If this happens, have a qualified gunsmith remove the left receiver and clear the loading port or call our customer service line at 1-510-296-3250 or email them at [help@moab-us.com](mailto:help@moab-us.com)
- Always check an airgun to see if it is loaded when removed from storage or received from another person. The only way to be sure that your air gun is not loaded is to pass an object (a cleaning rod) all the way through the bore. A projectile or obstruction could be present anywhere in the bore.

**WARNING:** Even if the gun no longer fires BBs that does not mean that the gun is empty. Always treat the air gun as if it were loaded, and with the same respect you would a firearm.

## 7 Clearing Jams

### Un-jamming Your Air Rifle

- If a projectile does not fire from the loaded rifle after going through the correct loading and pumping procedures, then the rifle is jammed.
- Immediately open the bolt and turn the trigger safety to "ON." If the bolt was not all the way closed, do not try to close it until you have opened it all the way. The air rifle will not fire while the bolt is all the way open.
- Next, gently and slowly take a cleaning rod through the muzzle end of the barrel. Be careful not to damage the bolt by pushing the cleaning rod too far or too hard.
- After finding the jammed projectile in the barrel, apply firm but steady pressure to the breach.
- The projectile should break loose and fall out of the loading port. Do not reuse this projectile.
- Confirm that the barrel is now free from obstruction, by sliding the cleaning rod through the muzzle end of the barrel.
- To resume operation, follow the pumping, loading and firing sections above. If the gun still does not fire after proper procedures, please call our customer service line at 1-510-296-3250 or email them at [help@barraairguns.com](mailto:help@barraairguns.com)

## 8 Cleaning, Lubrication and Storage

### Cleaning Barrel/Bore

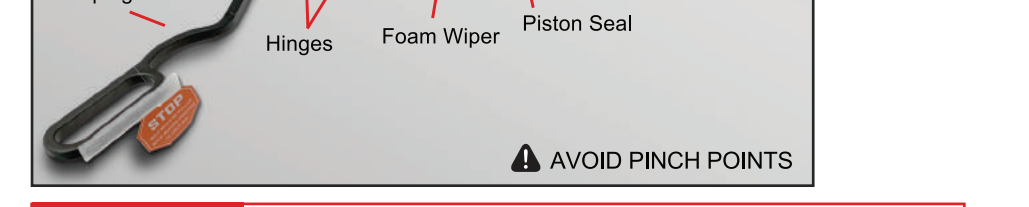
- Maintenance is needed when airgun loses accuracy.
- Make sure the bolt is opened and the safety is "ON" and pointed in a SAFE DIRECTION.
- Cut a strip of cotton cloth over the breech hole and rotate the cloth around a cleaning rod.
- Insert the cleaning rod into the barrel of the gun while slowly twisting down the muzzle.

### Cleaning the Exterior

- The exterior surface should be regularly wiped down with a soft, clean, lightly oiled cloth, making sure to get every screw and rail to prevent rust.

### Use the Right Lubrication

- Improper lubrication or not lubricating your air rifle will lead to breakdown, wear, inaccuracy and power loss. Using improper oils and solvents can damage the air rifle and harm user and others. A clean lubricated air rifle will shoot accurately and dependably.
- Lubrication should be done on a regular basis by an adult, or with adult supervision.
- Use only 10W, 20W, 30W, weight non detergent, automotive motor oil. The use of any other kind of oils or solvents including household oils and aerosol type lubricants may cause damage to the gun.
- To maintain top shooting performance, lightly oil the three pumping lever hinges, the foam wiper on the piston and piston seal every 500 shots. See image 10.



**WARNING:** Improper oils and solvents (such as aerosols and spray type lubricants), can degrade seals and may void warranty. Use only automotive motor oils.

### Storing Your Air Rifle

- Make sure that the internal magazine is empty and that the loading port is not loaded. Dry Fire in a SAFE DIRECTION to confirm that the barrel and pump system are now empty.
- Open the bolt all the way, place the trigger safety to the "ON" position and then close the bolt.
- Make sure the gun is well oiled, clean and dry before storage.
- Make sure the air gun in a safe, cool place away from children and untrained shooters.
- Store the storage in a secure separate location.

**WARNING:** Even if the gun no longer fires BBs does not mean that the gun is empty. Always treat the air gun as if it were loaded, and with the same respect you would a firearm.