

# 250z PCP AIR RIFLE OWNER'S MANUAL







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#### **BARRAAIRGUNS.COM**

PLEASE READ ALL INSTRUCTIONS AND WARNINGS IN THIS MANUAL BEFORE HANDLING OR SHOOTING THIS AIR RIFLE.
ALWAYS USE CAUTION WHEN OPERATING THIS AIR RIFLE.
BUYER AND USER HAVE THE DUTY TO OBEY ALL LAWS ABOUT THE USE AND OWNERSHIP OF THIS AIR RIFLE.

IMPORTANT: THIS PRODUCT IS RECOMMENDED FOR ADULT USE ONLY.

## PLEASE DO NOT RETURN PRODUCT TO STORE

For product assistance or questions, please contact Customer Service:

Email: help@barraairguns.com
Phone: 1-510-296-3250
You can get answers to frequently asked questions at www.barraairguns.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 HANDLING.

WWW.P65WARNINGS.CA.GOV

WARNING: Choking Hazard-small parts.

ACTUAL COLORS AND DECORATIONS OF THE

PRODUCT MAY VARY

#### **ALWAYS FOLLOW THESE SAFETY WARNINGS**

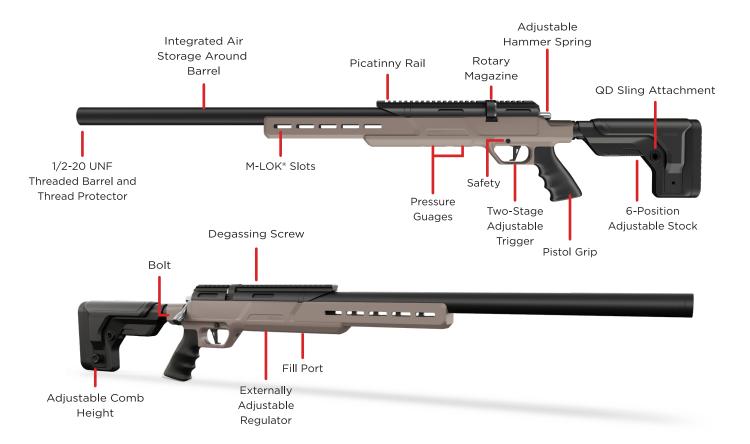
- WARNING: NOT A TOY. THIS AIR RIFLE IS INTENDED FOR ADULT USE ONLY. DO NOT OPERATE THIS AIR GUN UNTIL YOU HAVE READ THE OWNER'S/INSTRUCTION MANUAL COMPLETELY AND ARE FAMILIAR WITH THE PROPER USE AND SAFETY GUIDELINES THAT ACCOMPANY THIS AIR GUN. MISUSE OR CARELESS USE MAY RESULT IN SERIOUS INJURY OR DEATH. THE PURCHASER AND USER SHOULD CONFORM TO ALL LAWS GOVERNING THE USE AND OWNERSHIP OF AIR GUNS. WHEN USING THIS AIR GUN, ALWAYS BE MINDFUL OF YOUR SURROUNDINGS, ESPECIALLY PEOPLE OR ANIMALS WITHIN THE FIRING RANGE OF 600 YARDS (548 METERS).
- MARNING: DO NOT brandish or display this air rifle in public --- it may confuse police and others thinking 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 crime.
- MARNING: Always keep the muzzle pointed in a safe direction.
- MARNING: Lead pellets. Do not inhale dust or put pellets in mouth. Wash hands after handling. This product contains lead, a chemical known to public to cause cancer and birth defects (or other reproductive harm).
- MARNING: Use only compressed air in this air rifle. Do not use other gasses, including oxygen, which can cause a fire or explosion that may result in serious injury or death.
- MARNING: This air rifle could fire when dropped or jarred, with or without the safety engaged.

Before using your new air rifle, check if it is fully charged and abide the below basic safety rules:

- 1. Treat every rifle as it is loaded.
- 2. Never point the rifle at anyone, or allow anyone to point a rifle at you, even if you know it is not loaded.
- 3. Always carry the rifle so that the direction of the muzzle is under control, even if you stumble.
- 4. Always be sure of your target and what lies behind it before firing your rifle.
- 5. Never leave a loaded rifle unattended.
- 6. Beware of targets that tend to cause ricochets.
- 7. You and others with you MUST always wear shooting glasses to protect your eyes. If you wear optical glasses the lenses must be certified for impact resistance or you should wear safety glasses intended for use over normal optical glasses.
- 8. Always keep your finger off the trigger and out of the trigger guard until ready to shoot.
- 9. Never look down the muzzle of an air gun.
- 10. Do not attempt to disassemble or tamper with your air gun. Unauthorized repairs or modifying the function of your air gun in any way may be unsafe and will void your warranty.

## **CONTENTS AND PARTS OF YOUR NEW AIR RIFLE**

Model 250z The Barra 250z is a bolt action regulated PCP air rifle with the following features and specifications:



## **SPECIFICATIONS**

Specification	250z	
Barrel Length	27 in	
Barrel Caliber	.22 (5.5) / .25 (6.35)	
Velocity	.22 (5.5) 1000fps / .25 (6.35) 900 fps	
Maximum Pressure	3625 psi	
Regulator	Yes, externally adjustable	
Air Capacity	322cc	
Magazine Capacity	.22 (5.5) 10 shots / .25 (6.35) 9 shots	
Rail	Picatinny	
Stock	Glass Filled Nylon Polymer	
Overall Length	43.5 inches	
Weight	2.8kg	
Accessories Included	Fill probe, 2 rotary magazines, single shot tray, spare O-rings, hex key, and owner's manual	

#### **OPERATING INSTRUCTIONS**

#### 1. MANUAL SAFETY

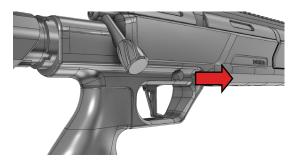
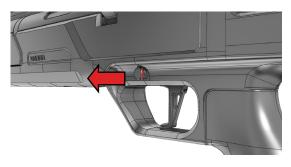


FIG 1 SAFE POSITION



**FIG 2 FIRE POSITION** 

- Safety button can be set to "ON" and "OFF"
- The SAFE position is when the safety is extended to the right. See arrow direction in FIG 1.
- Safety only functions when rifle is cocked. In this position, the gun cannot be fired.
- The FIRE position is when safety is extended to the left. See arrow direction in FIG 2. In this position, the gun is ready to shoot.

**CAUTION:** Until you are actually ready to fire, keep the safety in the "ON" position.

#### 2. FILLING THE RIFLE

Fit the attached fill probe to the socket coupler of your charging equipment, which must incorporate a pressure gauge

(See FIG 3 to fit fill probe).

Ensure both the fill probe and port are clean from dirt, then insert fill probe into fill port (See FIG 4 to insert fill probe).

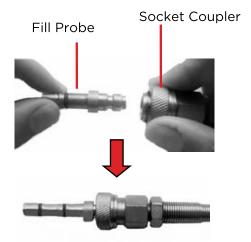
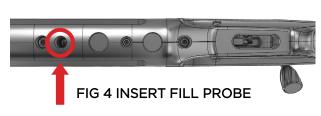


FIG 3 FIT FILL PROBE

Fill to a maximum pressure of 3625 psi.

#### 2.1 Filling the Rifle with a Hand Pump

- Be sure to wear eye protection.
- Make sure the air rifle is unloaded and not cocked.
- Read all instructions with your hand pump so you are familiar with its operation.



#### 2.2 Filling the Air Rifle with a High Pressure Tank

- Follow FIG 3 to fit the fill probe.
- Follow FIG 4 to insert fill probe to your rifle.
- Slowly open the valve on your tank and start filling the air rifle SLOWLY. Filling too quickly will cause heat buildup that can affect the accuracy of the fill pressure.
- Watch the gauge on your air rifle and the scuba tank until the reasonable pressure is reached.
- DO NOT EXCEED ITS MAXIMUM PRESSURE 3625psi.
- Turn the valve on your tank off when the reasonable pressure is reached.
- BLEED RESUDIAL air in fill hose COMPLETELY to avoid hose whip and possible injury.
- Disconnect fill probe from fill port on the air rifle.

#### 2.3 Depressurizing the Air Rifle

Your 250z air rifle, like most PCP air guns, is best stored with some pressure in the reservoir. This keeps seals in the air rifle forced against the sealing surface and saves some air for next time fill or use. In the event you want or need to depressurize the air rifle, please follow one of the two different methods.

- Bleed all the air by repeatedly cocking and dry-firing with the air rifle pointed in a SAFE DIRECTION until the pressure gauge on your air rifle shows ZERO and air cannot be heard when the gun is fired.
- Turn the pressure-adjust screw in clockwise, just turn a little bit, cocking and shooting 1-2 shots, then check he regulator pressure gauge. If the pressure is more than 5 MPa, repeat the above action; If the pressure is just 5MPa or less, slowly turn the air-leak screw (SEE FIG 5), until the air is leaking, then turn the pressure-adjust screw in anticlockwise, until the air has completely leaked and the gauge shows zero.



FIG 5 AIR-LEAK SCREW

NOTE: Before removing the fill probe, be sure the air hose is properly bled. Refer to the instructions of your air supply's manual.

Repairs beyond normal maintenance and use outlined in this manual should not be attempted. Contact customer service for help in resolving any issues.

If the rifle will not fill when it is completely empty, try cocking the bolt and dry firing with the muzzle pointed in a safe direction, then attempt to fill.

Always remove the magazine and make sure the barrel is clear of any ammunition before filling. Always keep the barrel pointed in a safe direction.

#### 3. LOADING PELLETS

- \* Turn the magazine counterclockwise to the end and fasten it by hand. (see Step 1)
- \* Put the pellet into the magazine according to the pointed-end direction in Step2. (see Step 2)
- \* turn the magazine cap on clockwise,load the pellet until fullfill the magazine. (see Step 3 & 4)
- \* It holds 10 shots for .22 Cal (5.5mm), 9 shots for .25 Cal (6.35mm).

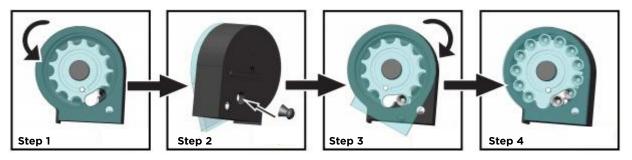
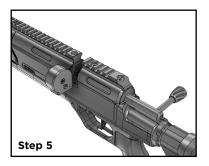
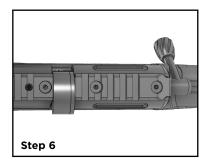


FIG 6 Magazine-Filling Procedure

- Make sure your rifle is filled with air.
- Point muzzle in a SAFE DIRECTION when loading. NEVER POINT IT AT ANYONE.
- The followings is the loading procedure for Model 250z:
- Confirm that you are loading the correct caliber pellet magazine as your barrel.
- Pull the bolt backward to cock the rifle (The bolt cannot automatically return forward). Now the loading port can be seen.
- Align the magazine into breech slot and insert the magazine (see Step 6).
- Push bolt forward to the end (see Step 7).
- After shooting out all pellets, pull the bolt to the end, dismantle the magazine and reload.



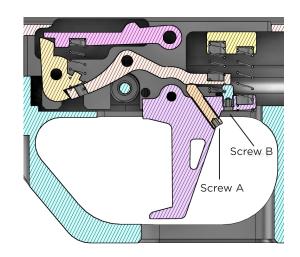


Step 6

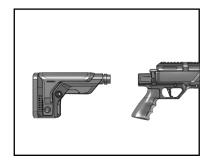
FIG 7 LOADING PROCEDURES

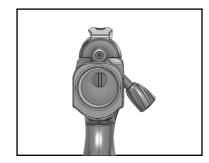
#### **4. TRIGGER ADJUSTMENTS**

- Begin adjustment by making sure gun is unloaded and uncocked. Keep the muzzle pointed in a safe direction at all times
- To increase first stage length, turn screw A counterclockwise. To reduce first stage, turn screw A clockwise
- To increase second stage length, turn screw B counterclockwise. To reduce second stage, turn screw B clockwise
- Once adjustment has been made, cock the gun and dry fire in a safe direction. Make corrections as necessary. Confirm that the safety still operates as expected and that the gun won't go off if bumped.



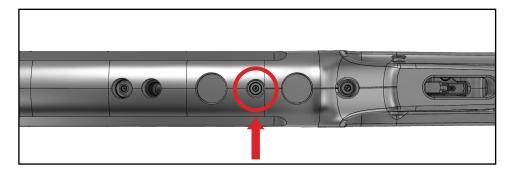
#### **5. HAMMER SPRING ADJUSTMENT**





- Make sure your gun is unloaded and pointed in a safe direction.
- Either remove the buttstock by pulling and holding the button down and sliding the stock off, or loosen the castle nut and unthread the buffer tube and stock together.
- With the butt stock out of the way, the hammer adjustment screw can be accessed. Adjust clockwise for more power, adjust counterclockwise for less power.

#### **6. REGULATOR ADJUSTMENT**



- Make sure your gun is unloaded and pointed in a safe direction
- To increase regulator output, turn adjustment screw counterclockwise.
- To reduce regulator output, degas the rifle to below the desired regulator set point. Turn the adjustment screw clockwise. Do not overtighten to prevent damage to the regulator. Fill and check the new set point.
- Small changes to the screw results in large changes in output. Go slow and check as you go. Dry fire in a safe direction to make sure the regulator operates as intended.

#### **MAINTENANCE**

#### **Lubricating and Cleaning**

Every 3 months or 1000 shots apply 100% silicone oil sparingly to the following parts:

- Between o-rings on the fill probe
- Bolt Probe

Clean your barrel before the first use and either every 1000 shots or when accuracy begins to deteriorate.

Never lubricate inside the barrel.

Before you begin oiling or cleaning your air gun, always check to make sure it is unloaded. Always be sure your air gun barrel is clean and not blocked.

After cleaning ensure that no cleaning patch or other obstruction remains in the barrel. Annually, take your air gun to a gunsmith even if it seems to be working well, since some issues in your air gun may not be apparent from external examination.

Take your air gun to a gunsmith if water, sand, etc. enters the internal mechanism of the air gun, for complete cleaning.

Dangerous conditions may occur if you do not keep your air gun clean and working properly.

#### **Quick Fill O-Ring Replacement**

After a period of time, the fill probe seals will need to be replaced. The need for this will become noticeable if air is heard leaking at fill probe or the probe ejected from rifle fill port when charging. Always ensure to replace both seals.

#### **Intake Valve O-Ring Replacement**

After a period of time, the intake valve seal will need to be replaced. Once air is heard leaking from intake valve, it signifies that the intake valve seal needs to be replaced.

- Make sure there's no residual high pressures air in air reservoir, and wait until gauge needle reaches ZERO.
- The following are replacement procedures of intake valve seal: Dismantle the intake valve.

Remove intake valve screw and the used seal, and replace it and re-assemble.

- Make sure all the threads are screwed in during the assembly.
- It is recommended to seek a competent gunsmith for help to replace seal. If you need to replace it yourself, make sure there's no high pressure in the air reservoir and the gauge needle has pointed to zero.

#### **SAFETY MEASURES & WARNINGS**

- If the gun is dropped, inspect the air reservoir for damage. If any damage is observed, degas the rifle, and contact customer service for further instruction. Always err on the side of caution, as damage to the air reservoir can lead to catastrophic failure, injury, and death.
- Air guns are not toys. Never let young children use an air gun unsupervised. Adult supervision is strictly required during use. Misuse or careless use may cause serious injury or death.
- Learn how your air gun operates and safe air gun handling procedures before loading and using it.
- ALWAYS USE EYE & HEARING PROTECTION AND MAKE BYSTANDERS USE THE SAME. Failure to do so may result in eye injuries and permanent hearing loss.
- Do not point at anything you do not intend to shoot even though the air gun is unloaded. Always keep the air gun pointed in a safe direction.
- Never point an air gun toward you by the muzzle.
- Always aim at a safe target, taking care that it does not conceal any other object.
- Before you shoot, consider where the pellet will travel should you miss your intended target, thus ensuring no damage or harm could result. Be sure of your target before you pull the trigger. Never shoot at sounds.
- When shooting, always have a safe shooting range, have a safe area for shooting, a safe distance between you and the target, and a safe backstop to trap the pellets and hold the target.
- Do not shoot at a target, which allows ricochets or deflections. Do not shoot into or at water.
- Do not shoot at or near power lines or insulators. Be especially careful in wooded areas where power lines may not be as visible.
- Do not load the air gun until you are ready to shoot.
- Always keep your fingers away from the trigger & muzzle during cocking and handling.
- Do not run or jump when carrying a loaded or cocked air gun. A loaded or a cocked air gun should never be carried inside a vehicle, house, camp or public place. Never climb a tree or fence or jump a ditch with a loaded air gun. In such a case, first unload it and hand the air gun to a friend or place it on the ground on the other side of the obstacle before crossing yourself.
- Do not put the air gun away loaded and unattended.
- Always check to see if the air gun is "on safe" and unloaded when getting it from another person or from storage.
- Always keep the air gun and/or pellets out of the reach of children. Keep the air gun and pellets in separate places, better if under lock and key.
- Do not attempt to disassemble or tamper with your air gun. Use a competent gunsmith. Many air guns contain powerful springs or high pressure air cylinders which can cause serious injury if released in an uncontrolled manner.
- Always handle and treat your air gun as it were loaded.
- Improper use or handling of air guns is not the responsibility of the manufacturer or distributor, under any circumstances. The user is responsible for any harm, which may be caused.
- Think first, shoot second. Don't rely on any mechanical safety. Half safe is not safe.
- Be safe not sorry. Respect other's property.
- Air guns should never be used under the influences of alcohol or drugs

## **TROUBLESHOOTING GUIDE**

Number	Issue	Solution
1	Fill probe leaks when filling	Make sure fill probe is seated. If that doesn't fix it, replace the fill probe o-rings.
2	Air coming out from barrel when filling	Cock the gun before filling
		If that fails, replace the valve poppet.
3	Leakage at fill port after filling	Replace intake valve O-ring
4	Leakage at mount place of exhaust/ intake valve and air reservoir	Replace intake valve O-ring
5	Leakage at pressure gauge when charging	Make sure pressure gauge is tightened
		Replace the gauge o-ring if that doesn't fix it.
6	Bolt can't be fully cocked	Bolt screws become loose and need to be re-tightened
7	Poor accuracy	Clean the barrel, try different ammo, check scope and mounting, remove the suppressor.
8	Leakage at loading port when firing	Change breech O-ring
9	Bolt effort is heavy or feels gritty	Dismantle breech, clean around bolt probe and add lubricating oil on bolt probe

## **MARNING:**

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **WARRANTY:**

This warranty does not cover damages due to modifications, abuse, or failure to perform regular maintenance. The purchase of this Barra Airguns product entitles you to 1 year replacement guarantee from the date of purchase with registration on the barraairguns.com site. Please go to the warranty section of the site and activate your 1 year warranty by registering the purchase within 90 days. Failure to register within 90 days from the date of purchase will void the warranty after the 90 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 manufacturer defects, please contact our customer service and we will give you the instructions on how to get your warranty replacement.

Email: help@barraairguns.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.

#### 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 Airguns 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 Airguns 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.











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