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## Barra 1100z

# Barra 1100z Gen 2 PCP Air Rifle User Manual

Model: 1100z | Brand: Barra

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## 1. SAFETY INFORMATION

**WARNING: Read this manual completely before using your Barra 1100z Gen 2 PCP Air Rifle. Failure to follow instructions and warnings can result in serious injury or death.**

- Always treat every air rifle as if it were loaded.
- Always keep the muzzle pointed in a safe direction.
- Always keep your finger off the trigger until ready to shoot.
- Always keep the air rifle on "SAFE" until ready to shoot.
- Always wear eye protection when handling or shooting an air rifle.
- Always be sure of your target and what is beyond it.
- Never shoot at hard surfaces or water, as pellets can ricochet.
- Keep air rifles and pellets out of reach of children.
- Do not alter or modify the air rifle.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## 2. PRODUCT OVERVIEW

The Barra 1100z Gen 2 PCP Air Rifle is a high-performance, pre-charged pneumatic air rifle designed for serious shooters. It features robust construction with premium components, offering exceptional accuracy and reliability. The rifle is available in .22 or .25 caliber and is capable of achieving velocities up to 1000 FPS, making it suitable for various shooting activities including plinking, target practice, and small game hunting.

Key features include an unregulated PCP system with a maximum fill pressure of 3000 PSI, a standard Foster quick disconnect for easy filling, and an adjustable hammer spring for power, noise, and shot count customization. The trigger is adjustable and includes a manual safety. The breech and scope rail are machined from a single block of metal for enhanced durability and accuracy. A solid steel side lever ensures light cocking effort and rapid reloading. The rifled barrel is equipped with a 1/2-20 threaded aluminum air stripper and a threaded shroud for noise suppression.

## 2.1. Components Diagram

Familiarize yourself with the main components of your Barra 1100z Gen 2 PCP Air Rifle.



Figure 2.1: Overall view of the Barra 1100z Gen 2 PCP Air Rifle, showcasing its sleek black finish and general design.



Figure 2.2: Opposite side view of the air rifle, highlighting the side lever action and integrated scope rail.



Figure 2.3: Detailed view of the trigger assembly and the robust side lever, designed for smooth and light cocking.



Figure 2.4: View of the foregrip, showing the integrated Picatinny rail for accessory mounting, such as a bipod.



Figure 2.5: The pressure gauge conveniently located on the underside of the stock, allowing for easy monitoring of air pressure.



Figure 2.6: The barrel with the knurled thread protector removed, revealing the 1/2-20 threads for additional noise suppression devices.



Figure 2.7: The Foster quick disconnect port, used for filling the air rifle with compressed air up to 3000 PSI.

## 2.2. Product Video

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Video 2.1: An official product video from Barra Airguns showcasing the Barra 1100 Air Rifle. This video provides a visual overview of the rifle's features and operation.

## 3. SETUP

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### 3.1. Unpacking and Initial Inspection

Carefully remove the air rifle and all accessories from the packaging. Inspect all components for any signs of damage. Ensure all listed parts are present, including the 10-round magazines and any included tools.

### 3.2. Charging the Air Rifle (PCP)

The Barra 1100z is a Pre-Charged Pneumatic (PCP) air rifle and requires an external air source (e.g., high-pressure hand pump, scuba tank, or compressor) to fill its air reservoir.

1. Ensure the air rifle is unloaded and the safety is engaged.
2. Locate the Foster quick disconnect fill port, typically found on the underside of the air tube (refer to Figure 2.7).
3. Connect your high-pressure air source to the Foster quick disconnect.
4. Slowly fill the reservoir to a maximum pressure of **3000 PSI**. Monitor the pressure gauge (Figure 2.5) carefully. **DO NOT OVERFILL.**
5. Once the desired pressure is reached, disconnect the air source.

### 3.3. Loading Pellets

The 1100z uses a 10-round rotary magazine.

1. Remove the magazine from the breech by pulling the side lever back to its rearmost position.
2. Load pellets into the magazine, ensuring they are seated correctly and flush with the magazine surface.

3. Insert the loaded magazine back into the breech.
4. Push the side lever forward to chamber the first pellet. The rifle is now cocked and ready to fire (with safety engaged).

### 3.4. Mounting Optics

The 1100z features an integrated scope rail machined from a single block of metal, providing a stable platform for mounting scopes or other optical accessories.

- Select appropriate scope rings that match your chosen optic and the rifle's rail type.
- Securely attach the scope rings to the rail, ensuring proper eye relief and alignment.
- Mount your scope onto the rings and tighten all screws according to the scope manufacturer's recommendations.
- Adjust the ambidextrous comb height on the stock to achieve perfect alignment with your scope for comfortable and consistent shooting.

### 3.5. Adjusting Hammer Spring and Trigger

The 1100z allows for customization of its performance:

- **Hammer Spring:** The hammer spring is adjustable to fine-tune power, noise, and shot count. Refer to online resources or experienced users for specific adjustment procedures, as this can significantly impact performance.
- **Trigger:** The trigger is adjustable for pull weight and creep. Adjustments should be made by a qualified individual or with extreme caution, ensuring the safety mechanism remains fully functional.

## 4. OPERATING INSTRUCTIONS

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### 4.1. Cocking and Loading

To cock the rifle and chamber a pellet:

1. Ensure the rifle is pointed in a safe direction.
2. Pull the side lever fully to the rear. This cocks the hammer and allows the magazine to rotate.
3. Push the side lever fully forward until it locks into place. This chambers a pellet from the magazine into the barrel. The rifle is now cocked and the safety should automatically engage (or be manually engaged).

### 4.2. Engaging/Disengaging Safety

The Barra 1100z features a manual safety. Familiarize yourself with its operation before shooting.

- **To Engage Safety:** Push the safety mechanism to the "SAFE" position. The rifle will not fire when the safety is engaged.
- **To Disengage Safety:** Push the safety mechanism to the "FIRE" position. Only disengage the safety when you are ready to shoot and your target is clear.

### 4.3. Firing Procedure

1. Ensure you are in a safe shooting environment and wearing appropriate eye protection.
2. Point the air rifle at your intended target.
3. Disengage the safety.
4. Place your finger on the trigger and slowly squeeze until the rifle fires.

5. After firing, immediately engage the safety if you are not taking another shot.

## 4.4. Reloading

After firing all pellets in the magazine, the side lever will still cock the rifle but no pellet will be chambered. To reload:

1. Ensure the safety is engaged.
2. Pull the side lever fully to the rear.
3. Remove the empty magazine.
4. Load a fresh, filled magazine (refer to Section 3.3).
5. Push the side lever fully forward to chamber the first pellet.

## 5. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your Barra 1100z air rifle.

### 5.1. Cleaning the Barrel

Regular barrel cleaning is crucial for maintaining accuracy.

- Use a cleaning rod with a patch that fits snugly through the barrel.
- Clean from the breech end whenever possible to avoid damaging the crown.
- Use airgun-specific cleaning solvents and oils. Avoid petroleum-based products, which can damage seals.

### 5.2. Lubrication

Periodically lubricate moving parts and O-rings to ensure smooth operation and prevent wear.

- Apply a small amount of silicone-based lubricant to the bolt and O-rings.
- Lubricate the side lever mechanism as needed.
- Do not over-lubricate, as excess lubricant can attract dirt and debris.

### 5.3. Storage

Store your air rifle in a safe, dry, and secure location, away from direct sunlight and extreme temperatures.

- Ensure the rifle is unloaded and the safety is engaged before storage.
- Store with some air pressure in the reservoir (e.g., 1000-1500 PSI) to maintain seal integrity, but not fully charged.
- Use a gun case or cabinet to prevent unauthorized access.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter with your Barra 1100z air rifle. For problems not listed here, please contact Barra customer support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Loss of Air Pressure	Leaking O-rings, loose fittings, faulty gauge.	Check all connections. Inspect and lubricate or replace O-rings. If problem persists, contact support.
Pellets Not Chambering	Magazine not seated correctly, bent pellets, side lever not fully cycled.	Ensure magazine is fully inserted. Use undamaged pellets. Cycle side lever firmly and completely.
Inconsistent Accuracy	Dirty barrel, inconsistent air pressure, loose scope, incorrect pellet choice.	Clean barrel. Ensure consistent fill pressure. Check scope mounts. Experiment with different pellet types/weights.
Safety Mechanism Stiff/Janky	Lack of lubrication, manufacturing tolerance.	Apply a small amount of appropriate lubricant. If it impedes safe operation, contact support.

## 7. SPECIFICATIONS

Feature	Detail
Brand	Barra
Model Name	1100z
Caliber	.22 (also available in .25)
Air Gun Power Type	PCP (Pre-Charged Pneumatic)
Max Fill Pressure	3000 PSI
Muzzle Velocity	Up to 1000 FPS (with lighter pellets)
Muzzle Energy	Exceeding 36 FPE (with heavier pellets)
Magazine Capacity	10 Rounds
Action	Side Lever
Barrel Material	Alloy Steel, Rifled
Frame Material	Metal
Stock Material	Reinforced Polymer (ambidextrous comb height adjustment)
Trigger	Adjustable with Manual Safety
Optics Mounting	Integrated Scope Rail
Accessory Rail	Front Picatinny Rail
Product Dimensions (LxWxH)	42.25" x 2.1" x 6.8"
Item Weight	7.5 Pounds
UPC	810024140954

## 8. WARRANTY & SUPPORT

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### 8.1. Warranty Information

The Barra 1100z Gen 2 PCP Air Rifle comes with a **1-Year Limited Warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, unauthorized modification, or normal wear and tear.

Please retain your proof of purchase for warranty claims.

### 8.2. Customer Support

For technical assistance, warranty claims, or inquiries regarding your Barra 1100z air rifle, please contact Barra customer support. You can typically find contact information on the manufacturer's official website or through the retailer where you purchased the product.

When contacting support, please have your model number (1100z) and proof of purchase readily available to expedite the process.

Visit the official Barra website for the most up-to-date support information: [Barra Official Store](#)

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This manual is for informational purposes only. Product specifications are subject to change without notice.