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› Beeman Raider 3500 PSI PCP Air Rifle Instruction Manual

Beeman 1331

Beeman Raider 3500 PSI PCP Air Rifle Instruction Manual

Model: 1331

1. INTRODUCTION AND SAFETY INFORMATION

This manual provides essential instructions for the safe and effective use of your Beeman Raider 3500 PSI PCP Air Rifle. Please read this manual thoroughly before operating the air rifle. Retain this manual for future reference.

General Safety Warnings:

- Always treat the air rifle as if it is loaded.
- Never point the air rifle at anything you do not intend to shoot.
- Keep your finger off the trigger until you are ready to shoot.
- Be sure of your target and what is beyond it.
- Wear appropriate eye protection when handling or shooting the air rifle.
- Store the air rifle unloaded and in a secure location, separate from ammunition.
- Keep out of reach of children.

2. WHAT'S IN THE BOX

Upon unpacking, ensure all components are present:

- Beeman Raider .22 PCP 3500 PSI Air Rifle
- User Manual (this document)
- *Additional accessories may vary by package.*



Image: The Beeman Raider 3500 PSI PCP Air Rifle, showcasing its classic hardwood stock and overall design.

3. SETUP

3.1 Filling the PCP Reservoir

The Beeman Raider is a Pre-Charged Pneumatic (PCP) air rifle, requiring an external air source to fill its reservoir. The maximum fill pressure is 3500 PSI.

1. Ensure the air rifle is unloaded and the safety is engaged.
2. Locate the fill port on the air rifle. This is typically covered by a dust cap.
3. Connect your high-pressure air pump (hand pump or compressor) to the fill port. Ensure a secure connection to prevent air leaks.
4. Slowly fill the reservoir to the recommended pressure of 3500 PSI. Monitor the pressure gauge on your pump or the rifle carefully. **Do not overfill.**
5. Once filled, disconnect the air source and replace the dust cap on the fill port.



Image: Close-up view of the front section of the air rifle, showing the barrel and the air cylinder where the fill port is located.

3.2 Loading Pellets

The Beeman Raider uses .22 caliber pellets.

1. Ensure the air rifle is pointed in a safe direction and the safety is engaged.
2. Pull back the bolt mechanism to open the breech.
3. Insert a .22 caliber pellet into the breech, ensuring it is seated correctly.
4. Close the bolt mechanism firmly. The air rifle is now loaded and ready to be fired (after disengaging safety).



Image: Side view of the Beeman Raider air rifle, highlighting the bolt action mechanism for loading pellets.

4. OPERATING INSTRUCTIONS

4.1 Firing the Air Rifle

1. With the air rifle loaded and the reservoir filled, ensure you are in a safe shooting environment.
2. Aim the air rifle at your intended target.
3. Disengage the safety mechanism.
4. Place your finger on the trigger and slowly squeeze to fire.
5. After firing, engage the safety immediately.

The Beeman Raider PCP air rifle is designed to be practically recoilless, contributing to improved accuracy and ease of use.



Image: Side view of the air rifle, illustrating the trigger guard and the ergonomic design of the hardwood stock.

5. MAINTENANCE

5.1 Cleaning

- Regularly clean the barrel using appropriate airgun cleaning kits. Follow the cleaning kit instructions.
- Wipe down the exterior of the air rifle with a soft, dry cloth to remove dirt and moisture.
- Avoid using harsh chemicals or abrasive materials that could damage the finish.

5.2 Seal Inspection

Periodically inspect all seals (e.g., fill port, breech) for signs of wear or damage. Worn seals can lead to air leaks and reduced performance. If a leak is suspected, consult a qualified technician or contact Beeman customer support for guidance on seal replacement.

5.3 Storage

Store the air rifle in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure it is unloaded and the safety is engaged before storage. Consider using a padded gun case for protection.



Image: Top-down view of the Beeman Raider air rifle, showing the overall profile and sights.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Air Leakage	Worn or damaged O-rings/seals, loose connections.	Check all connections for tightness. Inspect seals for damage and replace if necessary. If the leak persists, contact customer support.
Inconsistent Accuracy	Improper pellet seating, dirty barrel, inconsistent air pressure, loose barrel.	Ensure pellets are seated correctly. Clean the barrel. Verify consistent air pressure. Check barrel clamps for tightness and align if needed.
Pellet Not Firing	No air in reservoir, bolt not fully closed, safety engaged.	Check air pressure and refill if low. Ensure the bolt is fully closed. Disengage the safety.

7. SPECIFICATIONS

Model Name	1331
Brand	Beeman
Power Source	Pre-Charged Pneumatic (PCP)

Max Fill Pressure	3500 PSI
Caliber	.22
Stock Material	Hardwood (Classic Style)
Item Weight	4.9 Pounds (approx. 2.22 kg)
Package Dimensions (LxWxH)	43 x 7.08 x 3 inches
Hand Orientation	Ambidextrous
Manufacturer	S/R Industries, Inc.



Image: Rear view of the air rifle, focusing on the buttplate and the craftsmanship of the hardwood stock.

8. WARRANTY INFORMATION

The Beeman Raider 3500 PSI 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 caused by misuse, abuse, unauthorized modification, or normal wear and tear.

For warranty claims or detailed information, please refer to the official Beeman website or contact customer support.

9. CUSTOMER SUPPORT

If you have any questions, require assistance with setup, operation, maintenance, or troubleshooting, please contact Beeman customer support.

Contact Information:

Website: www.beeman.com *(Example link, please verify official website)*

Phone: Refer to the Beeman website for current contact numbers.

Email: Refer to the Beeman website for current contact email.

When contacting support, please have your model number (1331) and purchase date available.

