

MISSOURI AIRGUNS

Ultimate Airgun Setup Checklist

Trusted by Shooters Across the USA

This free printable checklist helps you set up, zero, and maintain your airgun for peak performance. Perfect for hunters, competitors, and enthusiasts alike.

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■ Ultimate Airgun Setup Checklist

Free Printable Guide by Missouri Airguns

■ Section 1: Pre-Setup Inspection

Task	Notes
Inspect barrel for obstructions	Use a bore light or pull-through patch.
Check screws & fittings	Tighten stock bolts, trigger guard, and rail screws.
Verify safety function	Ensure mechanical safety engages/disengages smoothly.
Examine air cylinder or bottle	No cracks, leaks, or damage; verify hydro date if removable.
Lubricate O-rings	Use only silicone grease; avoid petroleum oils.

■ Section 2: Scope Mounting & Zeroing

Task	Notes
Level your rifle	Use a bubble level or phone app.
Mount scope with correct eye relief	Leave about 3 inches distance from your eye.
Torque rings to spec	Typical: 15–20 in-lb; verify with manufacturer.
Bore-sight or laser align	Roughly center the reticle before live fire.
Chronograph initial shots	Record FPS to establish a baseline.
Zero at chosen distance	Common zero: 25 or 50 yards.
Confirm POI shift at range	Note pellet drop and wind drift.

■ ■ Section 3: Pellet Testing Log

Pellet Brand / Type	Grain Weight	Group @25yds	Group @50yds	Notes

■ Section 4: Maintenance & Safety Schedule

Frequency	Task	Notes
Every Use	Wipe exterior metal with silicone cloth	Prevents rust.
Weekly	Check stock screws & mounts	Re-torque if needed.

Monthly	Inspect O-rings & fill probes	Replace if cracked.
Quarterly	Clean barrel with pull-through patches	Never use steel rods.
Yearly	Replace regulator seals / service air tube	Follow manufacturer guide.

■ Bonus: Range Day Quick-Reference

Item	Confirmed
Chronograph + batteries	
Pellet tins (2 brands)	
Allen keys & tools	
Fill source (tank/pump)	
Eye & ear protection	
Notebook or app for grouping data	

■ Pro Tip

Consistency beats power. A regulated rifle shooting 850 FPS with a 25 gr pellet delivers ~40 FPE — plenty for hunting, with better accuracy.

Formula: $FPE = (velocity^2 \times pellet\ grains) / 450240$

Example: $(850^2 \times 25) / 450240 = \sim 40\ FPE$

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