



## Wyoming Tactical Firearms LLC.

# The Barron Owner's Manual

## Important Safety Information

**WARNING: READ THIS MANUAL COMPLETELY BEFORE USING THE BARRON SUPPRESSOR. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS INJURY, DEATH, OR PROPERTY DAMAGE.**

Firearms and suppressors are inherently dangerous. Always handle with care and adhere to firearm safety protocols. The Barron is designed for specific calibers and usage conditions. Misuse can lead to catastrophic failure.

- **Always keep the firearm pointed in a safe direction.**
- **Treat every firearm as if it is loaded.**
- **Keep your finger off the trigger until ready to shoot.**
- **Be sure of your target and what is beyond it.**
- **Wear appropriate eye and ear protection when shooting.**
- **Do not use the suppressor if damaged or showing signs of wear.**
- **The Barron is rated for calibers with projectile diameters of .51 inches or less (excluding .50 BMG). Using unsupported calibers may cause baffle strikes, suppressor failure, or injury.**
- **Minimum barrel length: 1 inch for non-magnum pistol calibers, 6 inches for rifle calibers (including AR-style pistols).**
- **Do not exceed muzzle velocity of 3,650 fps, combustion pressure of 65,000 PSI, or powder charge of 100 grains.**
- **Monitor suppressor temperature; do not exceed 1,200°F to avoid damage or injury.**
- **Never look down the muzzle end of the suppressor while attached to a firearm.**
- **Suppressors reduce noise but do not eliminate it; hearing protection is still required.**
- **Comply with all local, state, and federal laws, including NFA regulations if applicable.**

If you are unsure about any aspect of using The Barron, consult a qualified gunsmith or contact customer support.

## Product Overview

The Barron is a robust, high-performance suppressor designed for firearms with projectile diameters of .51 inches or less (excluding .50 BMG). Constructed from 17-4 H900 stainless steel, it offers durability under extreme conditions and is compatible with industry-standard 1.375" x 24 TPI (HUB) mounts for versatile attachment options.

## Key Specifications

Specification	Details
Product Name	The Barron
Compatible Calibers	.51 inches or less (no .50 BMG)
Minimum Barrel Length	1 inch (non-magnum pistol), 6 inches (rifle/AR-pistol)
Muzzle Velocity Limit	3,650 fps
Combustion Pressure	65,000 PSI (max)
Powder Charge	100 grains (max)
Length	9.9 inches
Diameter	1.825 inches
Weight	21 ounces- 16 in Titanium
Material	17-4 H900 stainless steel and or Titanium
Mount Type	1.375" x 24 TPI (HUB)
Sound Reduction	Up to 35 dB (depending on ammunition and barrel length)
Full Auto Rated	Yes, within specified limits

**Note:** Specifications may vary slightly due to manufacturing tolerances. Use with .50 BMG or other unsupported calibers voids warranty and poses safety risks.

## Installation Instructions

- Verify Compatibility:** Confirm the firearm's caliber is .51 inches or less (excluding .50 BMG) and meets minimum barrel length requirements (6 inch for non-magnum pistol calibers, 10 inches for rifle calibers). Ensure thread compatibility (1.375" x 24 TPI HUB).
- Unload Firearm:** Verify the firearm is unloaded, safety engaged, and action open.
- Inspect Suppressor:** Check The Barron for damage, debris, or loose parts. Clean if necessary.
- Attach Suppressor:**
  - Align the suppressor's threads with the barrel or adapter (1.375" x 24 TPI).
  - Hand-tighten clockwise until fully shouldered and snug, with no gaps.

- Torque tighten to approximately 20-30 ft-lbs (do not over-torque).
- 5. **Muzzle Fit:** Ensure the rear of the threads of the barrel muzzle, have a “Thread Relief”. The “Thread Relief” should have a smaller diameter than the diameter of the threads. If your barrel does not have a thread relief you may need to add shims (not a crush washer) to your barrel to ensure a 90 degree shoulder mount with the adapter and barrel.
- 6. **Function Check:** Cycle the action (unloaded) to ensure no interference. Perform a visual alignment check to confirm the suppressor is straight.

**Warning:** Improper installation can lead to baffle strikes. If alignment issues are suspected, use a suppressor alignment rod or consult a professional.

## Usage Guidelines

- **Break-In Period:** Fire 20-50 rounds to season the suppressor and reduce initial fouling.
- **Ammunition:** Use only high-quality, factory-loaded ammunition within specified limits (projectile diameter  $\leq$  .51 inches, muzzle velocity  $\leq$  3,650 fps, pressure  $\leq$  65,000 PSI, powder charge  $\leq$  100 grains). Avoid .50 BMG.
- **Heat Management:** Monitor temperature during use. Stop firing if approaching 1,200°F and allow 10-15 minutes to cool. Use gloves or a cover to handle hot surfaces.
- **Full Auto Use:** Rated for full-auto within specified limits. Use short bursts (30 rounds) to prevent overheating.
- **Adapter Compatibility:** Ensure third-party adapters or inserts match 1.375” x 24 TPI and are rated for the intended use. Wyoming Tactical Firearms LLC is not responsible for third-party component failures.

## Maintenance and Cleaning

Regular maintenance ensures safe operation and extends the life of The Barron.

1. **Frequency:** Clean every 2,000 rounds or if excessive buildup is observed.
2. **Disassembly:** Detach from the firearm. The Barron is user-serviceable; unscrew the end cap and remove baffles using provided tools (if applicable).
3. **Cleaning Method:**
  - Wear gloves and eye protection.
  - Use compressed air to remove loose debris.
  - Soak components in a non-corrosive solvent (e.g., diluted Simple Green or CLP) for 30 minutes.
  - Scrub with a nylon brush; avoid abrasive materials.
  - Optionally, use an ultrasonic cleaner for thorough cleaning.
  - Rinse with hot water, dry thoroughly, and lightly lubricate threads before reassembly.
4. **Inspection:** Check threads and baffles for damage or obstructions. Ensure proper reassembly and torque end cap to 15-20 ft-lbs.
5. **Storage:** Store in a dry, cool place. Use a protective pouch to prevent scratches.

**Caution:** Never clean while attached to the firearm. Avoid harsh chemicals that could degrade materials.

## Troubleshooting

- **Excessive Noise:** Check for loose mount or fouling. Clean and reinstall.
- **Point-of-Impact Shift:** Normal with suppressors; adjust sights as needed. Verify ammunition and barrel length compliance.
- **Overheating:** Reduce firing rate or use a suppressor cover. Allow cooling if approaching 800°F.
- **Baffle Strike:** Stop use immediately. This indicates misalignment or incompatible setup. Contact support for inspection.

## Warranty Information

The Barron comes with a limited lifetime warranty against defects in materials and workmanship. Warranty is void if:

- Used with .50 BMG or calibers exceeding .51 inches.
- Used with ammunition exceeding specified limits (velocity, pressure, or powder charge).
- Used on barrels shorter than specified minimums.
- Modified, abused, or improperly maintained.
- Involved in negligent discharge or illegal use.

To claim warranty, contact customer support with proof of purchase and a description of the issue. We will repair or replace at our discretion.

## Contact Information

For questions about this manual or W.T.F. Silencers products, please contact:

### **Wyoming Tactical Firearms LLC (W.T.F. Silencers)**

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Thank you for choosing The Barron suppressor.