V-Lok MMS
Owner's & Installation Manual

Modular Mounting System — The first true tool-less return-to-zero mount.



V-Lok MMS — base, rings, and two ADM Quick-Detach levers.

What's in the box

- **V-Lok Base** — the heart of the system, with the patent-pending Double-V interface.
- **Set of V-Lok Rings** — the diameter and height you ordered (1", 30mm, 34mm, or 35mm; 1.30", 1.54", or 1.70" height).
- **2x ADM Quick-Detach Levers** — tool-less on and off the base. The cam holds tension on the Double-V dovetail.
- **Complete Mounting Hardware** — M4 screws (T20 Torx) and M5 screws (T25 Torx).
- **T20 and T25 Torx keys** — included in the box.

Tools you'll need

- **Inch-pound torque wrench** (not included) — always use a calibrated torque wrench. Over-torquing can damage your optic.
- **The included T20 and T25 Torx keys.**
- **Blue medium-strength threadlocker** (such as Loctite 242) — one drop on the screw threads.

> **Safety first:** Always make sure the firearm is unloaded and pointed in a safe direction before installing, adjusting, or removing the mount.

WHEN ZERO MATTERS MOST. | Patent Pending

Before you start

- Your rail should be a MIL-STD-1913 Picatinny rail.
- The base bolts to the rail once and stays there. Return-to-zero comes from the ADM QD levers and the Double-V dovetail, so the ring assembly must seat fully on the dovetail the same way every time.
- Check that the rail and the mount's Double-V interface are clean and free of debris.
- Have your inch-pound torque wrench and the included T20 and T25 keys ready.

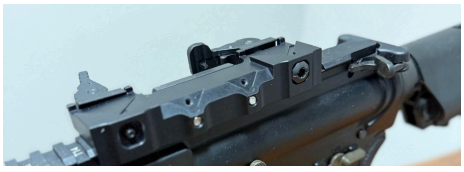
Installation

1 Bolt the base to the rail

1. Set the base on the rail where you want it.
2. Put a drop of blue threadlocker on the cross-bolt threads first.
3. Tighten the cross bolts to **40-50 in-lb** with your torque wrench and the T25 key. See the torque table on page 3.
4. Check the base: it should not move on the rail when you push it firmly forward and back.
5. The base stays on the gun — the QD levers remove the ring assembly, not the base.

2 Set the rings on the dovetail and lock the QD levers

1. Set the rings on the base's Double-V dovetail — the rings self-align.
2. Close both ADM Quick-Detach levers. The cam holds tension on the dovetail and locks the ring assembly to the base — each lever should close firmly with thumb pressure.
3. If a lever closes too easily or will not close, adjust the tension nut on that lever until it closes firmly, then re-check.



Step 1 — Base bolted to the rail.



Step 2 — Rings seated on the dovetail.

3 Set your eye relief

1. Set the scope in the rings. Leave the ring caps loose for now.
2. Shoulder the rifle in your normal shooting position and slide the scope until you see a full, clear sight picture with no dark ring around the edge.
3. Level the reticle so the crosshair is square with the rifle.
4. Hold the scope in that position while you move to Step 4.

4 Tighten the ring caps

1. With the scope held at the eye relief you set in Step 3, fit the ring caps.
2. Tighten the cap screws a little at a time in a criss-cross pattern, so the gap closes evenly on both sides of each ring.
3. Put a drop of blue threadlocker on the cap screw threads first.
4. Finish with your torque wrench at **15-18 in-lb** on the ring caps — do not go past 18 in-lb.
5. Confirm the reticle is still level, then zero the rifle as you normally would.

Torque specs

Fastener	Torque	Tool
Scope ring caps	15-18 in-lb	T20 Torx key (M4 screws)
Cross bolts	40-50 in-lb	T25 Torx key (M5 screws)

Threadlocker: with threadlocker on the threads, torque to the low end of the range — 15 in-lb ring caps, 40 in-lb cross bolts. Do not use threadlocker and anti-seize together.

Return to zero

Return-to-zero comes from the ADM QD levers and the Double-V dovetail, which self-aligns the rings so the assembly seats the same way every time. The base stays bolted to the gun.

Removing and reinstalling the scope and rings

1. Flip both QD levers open and lift the ring assembly (rings and scope) off the dovetail. The base stays on the gun.
2. To reinstall, set the ring assembly back on the dovetail, close both levers, and confirm they close firmly.
3. Verify your zero at the range before relying on it.



MMS mounted — flip the QD levers to lift the ring assembly off the dovetail.

Taking the entire mount off: to remove the whole mount, take the base off too — remove the cross bolts with the T25 key and lift the base off the rail.

> **MPP add-on:** The V-Lok MPP — Modular Picatinny Platform ($89.99) adds a Picatinny mounting surface to any V-Lok setup. It locks into the same Double-V interface.

Care and maintenance

- Keep the Double-V interface clean and free of debris. Wipe it down after use in dust, rain, or mud.
- Check the QD levers and cross bolts for tightness from time to time, and re-torque to spec if needed.
- A light wipe with an oiled cloth is enough. Do not use harsh solvents on the finish.

Troubleshooting

Problem	Check
Mount will not hold zero	Is the ring assembly fully seated on the dovetail? Are both QD levers closed firmly? Are the base cross bolts at 40-50 in-lb?
QD lever too loose or too tight	Adjust the tension nut on the lever until it closes firmly with thumb pressure.
Ring marks on the scope tube	Ring caps were likely over-torqued. Back off and re-torque to 15-18 in-lb.
Base moves on the rail	Re-torque the cross bolts to 40-50 in-lb with the T25 key. The base is held by the cross bolts, not the QD levers.

Warranty

V-LOK™ LIFETIME GUARANTEE — Your mount is covered for life against manufacturing defects and accidental damage. If it breaks or fails, we will repair or replace it at our discretion. No registration or receipt required.

Support

Questions about your mount, fit, or setup? Contact us:

- **Email:** support@v-lokmounts.com
- **Web:** vlokmounts.com

V-Lok MMS — Modular Mounting System. Ring diameters 1", 30mm, 34mm, 35mm. Ring heights 1.30", 1.54", 1.70". Mount height is measured from the top surface of the firearm's Picatinny rail to the centerline of the scope ring. Patent Pending. Made in the USA.

V-LOK™ PRECISION MOUNTING SYSTEMS
WHEN ZERO MATTERS MOST.