

Arisaka Zero Retention Clamp – Spear LT

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Patent Pending

There are several versions of the Zero Retention Clamp (ZRC). This document pertains only to the version designed for the MCX Spear LT with OEM handguard, as shown in the following images. 300BLK, 5.56, and 7.62x39 gas systems and barrel lengths are supported. The ZRC Spear LT may have either tan or black covers. There should be a total of four (4) 8-32x1/2" Torx flat head screws in the package, not just two as shown below:



The ZRC for the Spear LT consists of two parts:

1. A U-bracket with two clamp covers to secure the handguard to the extended upper receiver. This twin clamp arrangement provides the primary reduction in handguard movement.
2. Two additional tapered head screws that replace the factory button head screws at the rear of the handguard. The factory button head screws allow for a small amount of movement even when tight because the holes in the handguard are slightly larger than the screw threads. The new tapered head screws alleviate this movement.

Cont.

Installation:

1. Always keep firearms pointed in a safe direction and treat them as if they are loaded. Clear the firearm, verify the chamber is empty, and ensure no live ammunition is present.
2. Remove the two button head screws at the rear of the handguard using a T15 Torx driver. These will no longer be used.
3. Push out the front takedown pin and slide the handguard off the upper receiver.
4. The barrel and gas block are now exposed. Slide the ZRC U-bracket over the barrel from the bottom and clip it into the extended upper receiver. It is designed to fit and stay inside the extended upper.



5. Reinstall the handguard, making sure to slide it all the way to the rear before pushing the takedown pin back into place.

Cont.

6. 300BLK users should position the U-bracket in the middle vent slot. 5.56 and 7.62x39 users should position the U-bracket in the furthest forward rhombus shaped vent slot. **Helpful Tip:** You can thread the 8-32x1/2" Torx flat head screws into either side of the U-bracket to help slide it forward or backward to obtain proper alignment. For larger adjustments you may need to remove the handguard, reposition the U-bracket, and then slide the handguard back on. Once aligned, remove the screws before the next step.

Warning: The U-bracket should never contact the gas block.



Cont.

7. Place the left and right clamp covers over the U-bracket and use the 8-32x1/2" Torx flat head screws to secure them, using a small amount of Loctite 222 or 243 and a T20 Torx driver. Alternate tightening the covers until torqued to 20 inch lbs.



Cont.

8. Use a T20 Torx driver and two new 8-32x1/2" Torx flat head screws to secure the handguard to the upper receiver. Torque to 20 inch lbs without Loctite (there are Helicoil inserts in the upper receiver, so threadlocker is not needed). The change to tapered screws prevents the handguard from shifting under the screw head, unlike the OEM button head screws.



Cont.

9. Finished 300BLK installation. Note clamp cover position in the middle vent slot:



10. Finished 5.56 installation (also for 7.62x39). Note clamp cover position in the forwardmost rhombus shaped vent slot:

