



M14/M1A CASM® Installation Instructions

Removing the M14/M1A REAR APERTURE SIGHT

Tools Required A thick [but not too wide] flat blade screw driver.

1. Turn the elevation knob on the left side of the rear sight clockwise to raise the aperture all the way up.
2. On the right side of the rear sight, loosen the split screw in the center of the windage knob by turning counter clockwise. The small windage knob split screw will loosen, but it will stay connected to the body of the windage knob.
3. Unscrew the windage knob from the internal threads holding it to the elevation knob through screw.
4. Remove the elevation knob through-screw.
5. Push up and forward FIRMLY on the aperture to free the aperture spring cover from the slot in the rear of the rear sight pocket, and remove the remaining rear sight components
6. Clean the rear sight pocket of any dirt or hardened grease. Automotive brake cleaner and a tooth brush work well for cleaning the rear sight pocket.

M14/M1A CASM® Installation

Tools Required 5/16” Allen Wrench, 5/32” Allen Wrench

Note 1: The mount is shipped with the half-dog flat tipped vertical tensioning screws installed but not protruding from the mount. Before installing the mount, ensure that these vertical tensioning screws are not turned out and not protruding from the mount. The smaller set screws are also installed, but not tightened. Ensure these smaller set screws do not intrude into the threads of the tapped side mount screw holes in the mount.

Note 2: While some vertical adjustment is designed into the mount, these vertical tensioning screws are not to be used against each other for major elevation adjustments at the mount. If you want to raise the front of the mount to significantly adjust vertical zero, then ensure that you loosen the rear elevation screw first, creating sufficient clearance for rotation without over stressing the mount.

Note 3: Do not turn the front vertical adjustment screw in any tighter than ½ turn after initial contact. These massive 5/16” screws have tremendous power and can flex the mount until it actually bends and takes a set, or even fractures. A small amount of pre-stress is designed in to the system to keep the front of the mount surface in contact with the top of the receiver during the vibration of recoil. By keeping the mount “unitized” to the receiver under spring tension, the mount and receiver act as one mass.

Note 4: Blue Loctite® is provided for extreme/heavy duty use, for very large/heavy scopes, for the ultimate in security, and for semi permanent installations,. Screws installed with blue Loctite® are still removable with normal hand tools: no heat is required.

Installation:

After carefully cleaning any grease or dirt from the M14 receiver rear sight pocket, try the scope mount for fit inside the ears. The mount is CNC machined to close tolerances to fit all Chinese and genuine USGI M14 receivers, however, some commercially manufactured M14/M1A receivers may have variations. The mount should fit easily between the rear sight ears, with a few thousandth of an inch as clearance. In the unlikely event that the mount is too wide to fit easily between your receiver rear sight ears, carefully remove a small amount of material from the right side of the mount only.

1.] Apply blue Loctite® to the **left** side mounting screw and install through the **left** rear sight ear and into the scope mount. With the front of the scope mount held tight against the top of the receiver ring, torque the left side mounting screw as tight as you can get it comfortably with a hand held allen wrench . The fit of the left side of the scope mount to the inside of the rear sight pocket is critical to proper horizontal alignment of the mount with the bore. The side mounting screws are tapered, and sized to be self centering and self aligning within the rear sight ear holes. To prevent loosening under recoil and to lock this screw for maximum security, and a semi-permanent installation, we provide a locking set screw (add a small amount of blue Loctite® to it and tighten).

2.] Apply blue Loctite® to the **right** side mounting screw and install through the **right** rear sight ear and into the scope mount. With the front of the scope mount held tight against the top of the receiver ring, torque this as tight as you can get it comfortably with a hand held allen wrench . The right sight ear will compress inwards slightly to fit snugly against the right side of the mount. To prevent loosening under recoil and to lock this screw for maximum security, and a semi-permanent installation, we provide a locking set screw (add a small amount of blue Loctite® to it and fasten).

3.] Apply blue Loctite® and tighten the **rear** vertical adjustment screw as tight as you can get it comfortably with a hand held allen wrench. The **rear** elevation screw will raise the rear of the mount slightly and pre-load the front of the mount downwards against the receiver ring.

4.] Apply blue Loctite® and tighten the front vertical adjustment screw until it just contacts the top of the receiver. **Add no more than 1/8 to 1/4 turn extra rotation to pre-load the spring tension of the mount.**

5.] Apply blue Loctite® to the two vertical adjustment screws and the two side mounting screws by tightening the corresponding set screws.

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