

# SADLAK INDUSTRIES

Division of Sadlak Manufacturing LLC

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## IMPROVEMENTS TO THE BROOKFIELD DESIGN



### Background:

Brookfield Precision Tool was the original designer and manufacturer of this mount type, which is known in the industry as a 3-point contact M14 scope mount. When first developed, it was a significant improvement over the original aluminum mounts developed by the military, and has served with distinction since the late 1980s. Brookfield Precision Tool ceased operations in the mid-1990s. However, the military continues to use the original Brookfield mounts from the stock still remaining in their inventory, in addition to Sadlak Industries LLC's and other manufacturer's mounts. What sets Sadlak Industries LLC's mounts apart from the rest are a few small but useful improvements to the original design, which are listed below.

### Sadlak's 6 Improvements:

- 1) Increased Length and Added Two Outboard Set Screws to the Clip Guide Key

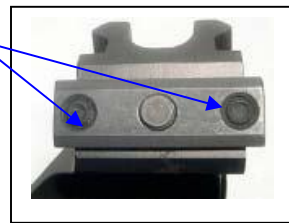
The outboard setscrews wedge the key into the dovetail groove of the stripper clip guide for maximum surface contact and holding power. The "locked-in" key acts as an immobile stationary "threaded nut" rather than a "floating nut" as used in the Brookfield design. This more secure "nut" allows for a better anchoring point for the mount at the stripper clip guide area that is better able to withstand the recoil forces without loosening.

- 2) Slotted Hole in Mount for Clip Guide Screw

With the Clip Guide Key now securely wedged and locked into the dovetail groove, the elongated slotted hole allows more adjustability without sacrificing holding power, and allows the screw to "find" the stationary "nut." With the Brookfield design, it's the other way around. The screw is confined in its hole thru the mount and the Clip Guide Key has to "rock" to properly align with the screw. The cocking of the key to align with the screw does not provide maximum surface contact with the receiver and is prone to loosening. The Brookfield design demands too much from such a small #10 socket head cap screw. It must: (a) hold the Clip Guide Key in the receiver groove to prevent it from moving; AND, (b) securely hold the mount against the receiver's angled face. One screw cannot do both reliably, which is one reason for some of these improvements.

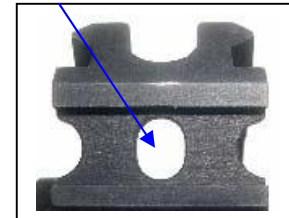
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Sadlak Industries LLC      Brookfield Precision Tool



Top View With Socket Screw

Slotted for Greater Adaptability



Bottom View Shown Without Socket Screw

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3) Added 5 Degree Case Deflection Angle On Underside of Mount

This feature allows deflection of spent cartridges caused by worn ejector parts. With worn parts, the ejected case can be thrown vertically, hit the underside of the mount, and deflect directly back down into the bolt. This can result in the case being jammed between the bolt and chamber. This new feature greatly reduces the chances of this occurring.

4) Added Semi-Circle Notches to Access Set Screws on Clip Guide Key

The two new notches on either side of the mount allow the Clip Guide Key to be tightened in the receiver groove, while the mount is attached, making it a faster and a more convenient installation.

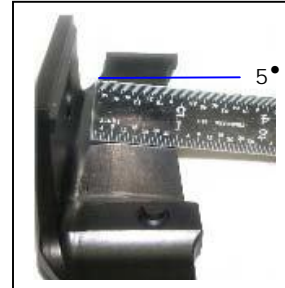
5) Increased Screw Size of Third Contact Point

The size of the screw that contacts the top front of the receiver was increased from 1/4-28 to 5/16-24 half-dog flat-point setscrew. This gives a greater contact surface with the receiver.

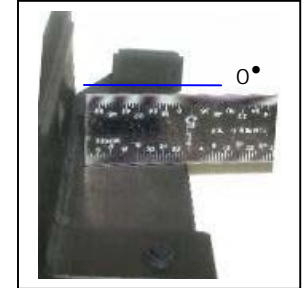
6) Eliminated One Service Tool

Only two hex wrenches are required, not three, to service the mount. By increasing the size of the flat-point screw, described in #5 above, it eliminated one hex wrench, making it more convenient for the user. That's one less tool to worry about. Note: A 3/8 box wrench is still required for the left-side hex screw.

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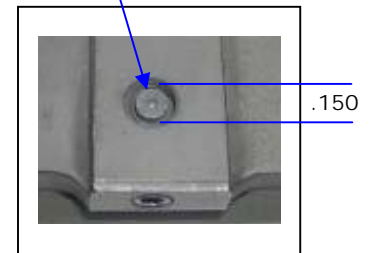
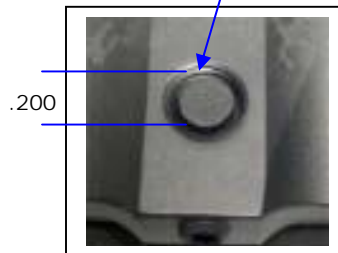
Brookfield Precision Tool



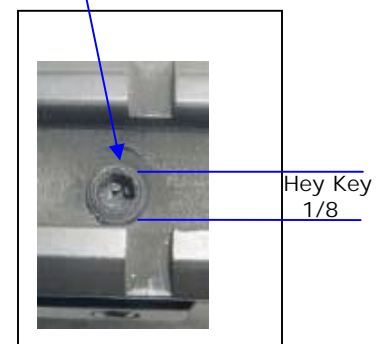
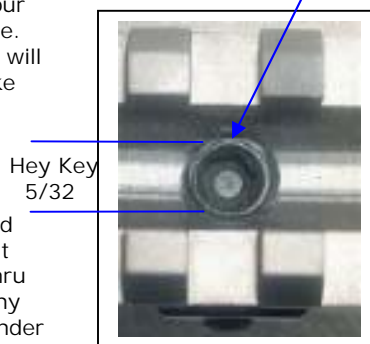
Hex Key Access Notch



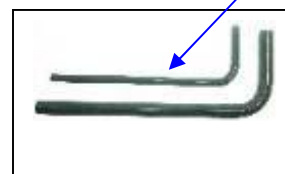
Bottom View Flat-Point Diameter



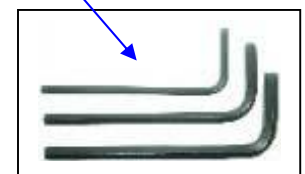
Top View Hex Key Size



Tools Required



Sadlak, 2 Hex Keys



Brookfield, 3 Hex Keys

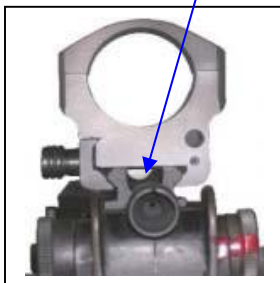
## Other Benefits of a Sadlak Industries LLC Scope Mount

### Custom Scope Mount Fitting

Sadlak is the first M14 scope mount mfr to offer an optional custom-fitting service for your Sadlak Industries LLC mount to your out-of-spec M1A receiver. You do not need to ship your rifle to us. By using the precision ground pins contained in our Inspection Kit, you can properly inspect the receiver at home. Simply fax or email the data from your inspection to us. We will then modify your mount to fit your receiver perfectly just like on a genuine M14 government-issued receiver.

### Using Iron Sights with a Brookfield Style Scope Mount

"See-Thru" U-Channel



Shown with Prototype Sadlak Titanium Rings

Similar to the original Brookfield scope mount, the Sadlak mount also has a U-shaped channel thru the precision-machined Picatinny rail that provides an opening under the rings to use the iron sights with the scope and rings attached. (See photo to left.) In addition to aiding in the initial zeroing of the scope, it serves as an alternate aiming option should the scope malfunction. The U-channel is machined with a downward slope to provide a clear view even when the rear sight is elevated for longer distances.