



# 50 FVS Installation Guide





CAGE: 8RC72 DUNS: 043893696



**NOTE: Read and follow instructions completely before firing weapon or serious injury may occur**

The 50FVS (a.k.a. M2FVS) is a Venturi cooled, direct thread Signature Reduction solution for the M2A1 50 BMG Machine Gun. The purpose of this installation guide is to demonstrate the removal of the factory flash hider from an M2A1 50 BMG Machine Gun barrel, and the installation of the RD 50FVS Suppressor.

1. Ensure weapon Unloaded, Clear and Safe. Remove the barrel. Place the barrel into bench vise, and ensure the vise is tight enough that the barrel does not rotate. Using a 35mm crows-foot (one provided by the armory) on a breaker-bar, turning in a clockwise motion (Lefthand thread), remove factory flash hider. (see Figure 1)



**Figure 1**

**2. Clean and degrease barrel threads, then apply a moderate amount of anti-seize compound to the clean, dry threads. (see Figure 2)**



**Figure 2**

**3. Turning in a counter clockwise motion (Lefthand thread), thread the Suppressor onto barrel until hand tight. Next, using a torque wrench and the supplied 33mm crows-foot, torque the Suppressor on at 150 ft/lb. (see Figure 3)**



**Figure 3**

4. The 50 FVS Suppressor indexes off from the muzzle of the barrel. When fully torqued, there should be a thin gap between the Suppressor and barrel shoulder. (see Figure 4)



Figure 4

5. With the suppressor installed on the barrel, insert a suppressor alignment rod, and perform an alignment check. Ensure there is an even gap around the circumference of the alignment rod, between the rod and the suppressor. If alignment is 'GO' (see Figure 5), remove the alignment rod, you are clear to proceed.

**CAUTION:** If alignment is 'NO-GO' (see Figure 6), there is not an even gap completely around the bore of the suppressor, do NOT proceed. Remove suppressor, check concentricity of the barrel threads or replace barrel, also ensure Suppressor is torqued to the recommended specification



Figure 5



Figure 6

\*\*Photos for Figure 5 and Figure 6 are generic and for demonstration purposes only.

Once the 50FVS is torqued-on and alignment check is 'GO' the barrel can be reinstalled into the M2A1 Machine Gun. The Suppressor is now ready for use.

Radical Defense recommends removing the suppressor after operations, cleaning / degreasing muzzle threads, reapplying anti-seize compound, and retorquing.

**For Assistance or Technical Support please contact:**

**Nick Kostin: [nick@RDUSA.com](mailto:nick@RDUSA.com)  
Testing and Evaluation**

**Clayton Schubert: [clayton@RDUSA.com](mailto:clayton@RDUSA.com)  
Gunsmithing and Implementation**

