



**RADICAL  
DEFENSE**  
MODERN DEFENSE SOLUTIONS

ISO 9001:2015 Compliant Company  
CAGE: 8RC72 DUNS: 043893696

## CS / LS Suppressor Installation Guide



The following installation guide will illustrate how to mount the Radical Defense CS and LS Series of Suppressors and the Radical Defense KFM Flash Hider Suppressor Mount on the M4 / AR15 family of rifles and carbines. For the purposes of this manual, host weapons will have standard M4 / AR15 style 1/2x28 muzzle threads and a standard A2 style flash hider installed.

1. Remove source of ammunition feed. Pull charging handle fully to the rear and using the bolt lock, lock bolt fully to the rear (**Figure 1**). Return charging handle to the forward, locked position. Inspect chamber ensuring it is clear of ammunition. Place selector on 'Safe.'



**Figure 1**

2. Once weapon is verified 'Clear and Safe' release bolt to go home. From the left side, push rear takedown pin to the right and pull out from the right side until the pin is fully extended allowing the upper receiver to pivot away from the lower receiver (**Figure 2**).



**Figure 2**

- From the left side, push front pivot pin to the right and pull out from the right side until the pin is fully extended, allowing the upper receiver to detach completely from the lower receiver (**Figure 3**). Take care when removing the upper receiver from the lower receiver so as not to allow the Bolt Carrier Group (BCG) to drop and fall freely.



**Figure 3**

- Remove the BCG from the upper receiver. Using an upper receiver reaction rod (Brownell's PN: 100-011-315WB) in a vise, place receiver onto reaction rod. Using an AR15 armorer's wrench (Brownell's PN: 851-000-068WB), turning counter clockwise, remove the standard A2 flash hider and crush washer. (**Figure 4**).



**Figure 4**

5. Clean threads thoroughly of contaminants and degrease. Using a cotton swab, apply a small amount of Rocksett to the muzzle threads (Figure 5). Using an AR15 armorer's wrench (Brownell's PN: 851-000-068WB) thread on Radical Defense KFM Suppressor Mount turning clockwise, until hand tight. Using a torque wrench, tighten flash hider to 30 ft/lbs (Figure 6). According to the manufacturer, a light application of Rocksett can dry at room temperature in a 24-hour period. (CAUTION! DO NOT install Radical Defense KFM with a crush washer)



Figure 5



Figure 6

6. Rotating counter clockwise with your hand, screw CS suppressor completely onto flash hider ensuring the tapered surfaces fully engage (Figure 7). Use a 32mm crows foot on a torque wrench tighten suppressor to 20 ft/lbs (Figure 8). To uninstall, reverse these processes. (CAUTION! Use of a strap wrench for installation of the CS is not ideal)



Figure 7



Figure 8

7. Holding the LS Suppressor with soft jaws in vise, thread the Hub into LS Suppressor. Using an AR15 Castle Nut Wrench on a torque wrench, tighten Hub to 35 ft/lb. Thread LS Suppressor (left hand threads) onto KFM flash hider and using the same Castle Nut / Torque Wrench, tighten the suppressor to 20ft/lbs.
8. Reinstall BCG in upper receiver. Align and reattach upper and lower receivers, fully pushing pivot and takedown pins in from the right until fully engaged (**Figure 9**). Check alignment using a suppressor alignment rod, perform safety function check, and ensure barrel is free of obstructions. The suppressor is installed and ready for use.



**Figure 9**

## Suppressor with HUB Install Guide

Additionally, Radical Defense offers a Hub mount for certain suppressors. The installation is as follows:

1. Ensure weapon is clear of ammunition and placed on SAFE.
2. Remove factory muzzle device.
3. Clean and Dry muzzle threads.
4. Install RD KFM Flash Hider hand tight.
5. Using an AR15 Armorer's Tool, on a torque wrench, tighten to 25 ft/lbs for 1/2x28 threads and/or 35ft/lbs for 5/8x24 threads.

**\*\*Use of a thread locker is recommended, but not required.**

6. Install suppressor hand tight rotating counter clockwise (left hand threads).
7. Using an AR15 Castle Nut Wrench, on a torque wrench, tighten suppressor to 20 ft/lbs.
8. **Check suppressor alignment using an alignment rod!**

### To swap Hub from 7.62 to 5.56:

1. Use a padded vise jaw and clamp suppressor tightly. With an AR15 Castle Nut Wrench, remove the hub from the rear of the suppressor by turning counter clockwise.
2. Apply a small amount of high heat anti-seize on the hub threads, while ensuring the internal suppressor threads are clean and dry.
3. Install the alternate hub with the same wrench, turning clockwise. Tighten the Hub to 35ft/lbs.
4. Reinstall on appropriate KFM using the instructions above.

### Cleaning:

Every 1,000rnds Flush Suppressor with Bore Tech copper and carbon solvent. Allow solvent to sit inside suppressor 30 minutes to an hour. Flush thoroughly with HOT water. Drain water, and fire ten rounds to remove any residual water. Ultra sonic cleaners can be used however, prolonged exposure can lead to damage and or removal of the exterior finish

IMPORTANT: RD OFFERS A LIMITED 1 YEAR WARRANTY-This limited warranty is null and void if the suppressor has been misused, damaged (by accident or otherwise), fired with hand loaded, reloaded, or improper ammunition, fired with an obstruction in the barrel, damaged through failure to provide reasonable and necessary maintenance as described in the manual accompanying the suppressor, or if unauthorized repair or any alteration, including of a cosmetic nature, has been performed on the suppressor. Average service life of suppressor 15,000-20,000 rounds with semi auto fire ONLY. The average service life of suppressor under Full-Auto fire is 7,000-10,000 rounds.

For Assistance or Technical Support please contact: [info@rdusa.com](mailto:info@rdusa.com) or visit our website at [www.rdusa.com](http://www.rdusa.com)

