



**DDWAVE®**

**USER / ARMORER MANUAL**

**DANIEL  
DEFENSE®**

»» FREEDOM. PASSION. PRECISION.™

**FOR ALL DANIEL DEFENSE® DD® WAVE®  
SUPPRESSORS & MUZZLE ADAPTERS**

## TABLE OF CONTENTS

1. DANIEL DEFENSE SUPPRESSOR SYSTEMS.....	3
2. ACME THREAD QUICK-CLAMPING SYSTEM QUICK REFERENCE.....	4
3. INCLUDED COMPONENTS.....	5
4. MUZZLE DEVICE INSTALLATION PROCEDURES WARNING .....	5
5. REMOVAL OF FACTORY FLASH HIDER AND CRUSH WASHER .....	6
5.1 Cleaning Procedures .....	7
5.2 Adapter Timing .....	7
5.3 Preparatory Procedures.....	8
6. QUICK-CLAMPING SUPPRESSOR ATTACHMENT PROCEDURES.....	9
7. QUICK-CLAMPING SUPPRESSOR REMOVAL PROCEDURES.....	10
8. DIRECT-THREAD SUPPRESSOR ATTACHMENT PROCEDURES.....	10
9. FIRING SCHEDULE.....	12
10. MAINTENANCE .....	12
10.1 Cleaning Procedures .....	12
10.2 Lubrication.....	13
11. DEMIL PROCEDURES.....	13
12. SPECIFICATIONS.....	14
13. WARRANTY .....	15

## 1. DANIEL DEFENSE® SUPPRESSOR SYSTEMS

The new DD WAVE sound suppressor's advanced cascading baffle geometry more effectively attenuates sound than simpler baffle styles. The DD WAVE's unique one-piece, 3D printed baffle/tube eliminates the need for welds—typically the weakest points of a traditional suppressor—providing unmatched strength and durability. Our Acme Thread Quick-Clamping System won't carbon lock, and securely clamps the suppressor to a 17-4 PH stainless steel muzzle device, making it easy to remove even after extended use. Constructed of Nickel Based Superalloy, stainless steel, and titanium—and then Cerakote coated—the DD WAVE 7.62 is fiercely strong yet lightweight, making it durable and reliable enough for a variety of calibers from 5.56 to .300 Win Mag.

- **One-piece 3D printed baffle/tube**
- **Advanced cascading baffle geometry effectively attenuates sound**
- **Contains no welds, typically the weakest points of a suppressor**
- **Nickel Based Superalloy, stainless steel, & titanium\* construction for durability**
- **Reinforced blast chamber for maximum life cycle**
- **Acme Thread Quick-Clamping System.\*\* Does not carbon lock. Patent Pending**
- **Easy to lock & unlock suppressor. No tools required. Patent Pending**
- **Caliber rated from 5.56 to .300 Win Mag**
- **Designed for full auto use**



\*Direct thread model contains no titanium components

\*\* Quick-clamping model only

## 2. ACME THREAD QUICK-CLAMPING SYSTEM QUICK REFERENCE

**OPEN:** Rotate collar until it stops on the flat faces of the lock tabs. (FIGURE 1)

**ATTACH:** Thread suppressor onto muzzle device adapter until clamps snap over the retaining flange on the muzzle device (you may feel some resistance, this is normal) and the suppressor is secured tightly.

**LOCK:** Tighten locking collar against the locking tabs on the suppressor core. (FIGURE 2)

**VERIFY:** Attempt to rotate suppressor; only slight rotational movement under tension should be felt. Slight rotation is normal, with the clamps retaining the suppressor against the locating taper on the muzzle device.

Attempt to remove suppressor by aggressively pulling/twisting suppressor forward. When attached correctly, the suppressor will have no forward movement and minimal rotational movement under tension.

FIGURE 1

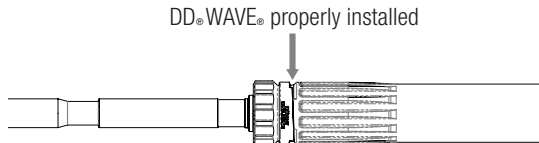


UNLOCKED

FIGURE 2



LOCKED



**Installation of Daniel Defense DD WAVE Sound Suppressor is now complete.**

## 3. INCLUDED COMPONENTS

- Suppressor
- Muzzle Device Adapter
- Alignment Washer
- Shim Kit
- Rocksett
- Manual

## 4. MUZZLE DEVICE ADAPTER INSTALLATION PROCEDURES WARNING

**First remove live ammunition from your work area.**

**Always ensure the firearm is not loaded before performing any work procedures.**

**Practice safe handling of firearms at all times.**

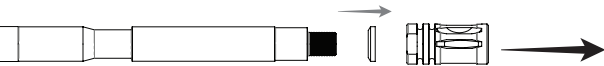
**Refer to your weapon's manual for weapon safety features and handling instructions.**

## 5. REMOVAL OF FACTORY FLASH HIDER AND CRUSH WASHER

**FIGURE 3**

1. Properly secure host weapon in a vise/fixture. Use of a reaction rod is recommended.
2. Insert combination wrench or crow's-foot wrench (armorers tool) onto wrench flats of the birdcage flash hider to loosen.
3. Remove flash hider from barrel of host weapon. (Black arrow, FIGURE 3)
4. Remove and discard the factory-installed crush washer and any other shims/washers present. (Gray arrow, FIGURE 3)

**FIGURE 3**



**CAUTION: ONLY USE SPACERS AND SHIMS SUPPLIED BY DANIEL DEFENSE! INSTALLING ANY COMPONENTS NOT SUPPLIED BY DANIEL DEFENSE (CRUSH WASHER/SHIM) COMPROMISES THE SUPPRESSOR ADAPTER ALIGNMENT TO THE HOST WEAPON BORE. MISALIGNMENT OF THE SUPPRESSOR ADAPTER MAY LEAD TO DAMAGE OR CATASTROPHIC FAILURE OF THE SUPPRESSOR SYSTEM!**

## 5.1 CLEANING PROCEDURES

1. Use a stiff bristle brush to remove debris from the barrel threads. (Gray arrow FIGURE 4)
2. Wipe remaining residue/debris from the barrel threads with a clean cloth.
3. Use a clean cotton swab and a degreasing solution (acetone or alcohol is recommended) to remove residue/debris from the muzzle device threads. (Black arrow, FIGURE 4)

**FIGURE 4**



## 5.2 ADAPTER TIMING

1. Install beveled side of Daniel Defense alignment washer onto host weapon in the direction toward the barrel shoulder and as indicated above (gray arrow, FIGURE 5). Beveled side of spacer should face the barrel shoulder.
2. Using supplied shims, add/remove shims as needed to time muzzle device where the threads end and begin at the 10pm position. Orientation perspective is from behind the rifle in the shooting position. If timed properly, the DD WAVE logo will appear on the left side of the suppressor once installed.

3. Install and hand tighten muzzle device until snug. (Black arrow, FIGURE 5)

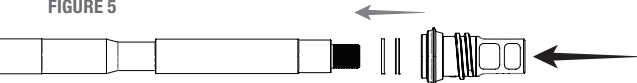
4. Insert combination tool that is attached to a torque wrench into wrench flats on the muzzle device. Wrench flats are 3/4" in width.

5. Use torque wrench set at 20-30 ft. lbs. and combination/crow's-foot wrench (armorers tool) to tighten suppressor adapter onto host weapon. Do not torque suppressor adapter beyond 30 ft. lbs. You may need to remove muzzle device and add/remove shims to orient the timing of the muzzle device correctly.

6. Verify wrench flats are positioned top and bottom dead center for optimal installation.

7. Remove adapter for next steps.

FIGURE 5



### 5.3 PREPARATORY PROCEDURES

1. Apply supplied Rocksett to the barrel threads. (Gray arrow, FIGURE 4)

2. Repeat steps 3-6 in Section 5.2.

*NOTE: DO NOT APPLY ROCKSETT TO THE SUPPLIED SPACER. DO NOT ALLOW ROCKSETT TO ENTER BORE OF HOST WEAPON.*

## 6. QUICK-CLAMPING SUPPRESSOR ATTACHMENT PROCEDURES

**OPEN:** Rotate collar until it stops on the flat faces of the lock tabs. (FIGURE 1)

**ATTACH:** Thread suppressor onto muzzle device until clamps snap over the retaining flange on the muzzle device (you may feel some resistance, this is normal) and the suppressor is secured tightly.

**LOCK:** Tighten locking collar against the locking tabs on the suppressor core. (FIGURE 2)

**VERIFY:** Attempt to rotate suppressor; only slight rotational movement under tension should be felt. Slight rotation is normal, with the clamps retaining the suppressor against the locating taper on the muzzle device.

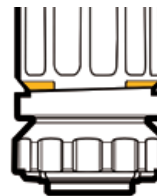
Attempt to remove suppressor by aggressively pulling/twisting suppressor forward. When attached correctly, the suppressor will have no forward movement and minimal rotational movement under tension.

FIGURE 1

FIGURE 2



UNLOCKED



LOCKED

## 7. QUICK-CLAMPING SUPPRESSOR REMOVAL PROCEDURES

### CAUTION!

**DO NOT HANDLE SUPPRESSOR IMMEDIATELY AFTER IT HAS BEEN USED IN LIVE-FIRE OPERATIONS. ALLOW SUPPRESSOR TO COOL SUFFICIENTLY BEFORE HANDLING. SURFACE OF THE SUPPRESSOR AND HOST WEAPON CAN REACH TEMPERATURES CAPABLE OF INFLECTING SEVERE BURNS IF HANDLED IMMEDIATELY AFTER LIVE-FIRE OPERATIONS!**

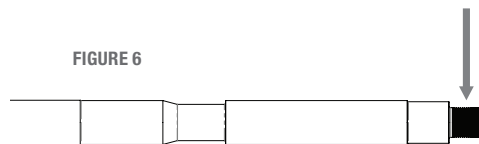
1. Unlock locking collar by rotating it counterclockwise until it stops on the flat faces of the locking tabs and the tabs are aligned in the keyways on the locking collar.
2. Thread the suppressor counterclockwise off of the muzzle device adapter.

## 8. DIRECT-THREAD SUPPRESSOR ATTACHMENT PROCEDURES

1. Use a stiff bristle brush to remove debris from the barrel threads. ( FIGURE 1)
2. Wipe remaining residue/debris from the barrel threads with a clean cloth.

3. Use a clean cotton swab and a degreasing solution (acetone or alcohol is recommended) to remove residue/debris from the muzzle device threads.
4. Install beveled side of Daniel Defense alignment washer onto host weapon in the direction toward the barrel shoulder. Beveled side of spacer should face the barrel shoulder.
5. Using supplied shims, add/remove shims as needed to time suppressor properly. If timed properly, the DD WAVE logo will appear on the left side of the suppressor once installed.
6. Use torque wrench set at 20-30 ft. lbs. and combination/crow's-foot wrench (armorers tool) to tighten suppressor onto host weapon. Do not torque suppressor beyond 30 ft. lbs. You may need to remove suppressor and add/remove shims to orient the timing of the suppressor correctly.
7. Once suppressor is timed properly and torqued to 20-30 ft. lbs, remove suppressor. Apply a very small amount of supplied Rocksett to barrel threads and re-torque suppressor onto host weapon. (Ensure Rocksett does not drop on or into the bore)

Let Rocksett cure for 24 hours before using firearm.



## 9. FIRING SCHEDULE

### WARNING!

**LIMIT FULL AUTO FIRING TO REDUCE HEAT BUILDUP AND EXTEND SUPPRESSOR LIFE. AVOID FIRING MORE THAN 90 ROUNDS OF SUSTAINED FIRE. IF THIS LIMIT IS REACHED, ALLOW THE UNIT TO COOL BEFORE RESUMING FIRE, IF POSSIBLE. HIGH-RATE FIRING BEYOND 120 ROUNDS CAN CAUSE COOK-OFF CONDITIONS. SHOULD THIS OCCUR, CLEAR STOPPAGES QUICKLY AND LEAVE THE CHAMBER EMPTY.**

## 10. MAINTENANCE

While Daniel Defense suppressors require minimal maintenance, it is recommended that the adapter and suppressor be cleaned in conjunction with regular weapon maintenance. Cleaning should be conducted as often as deemed necessary.

### 10.1 CLEANING PROCEDURES

*NOTE: SUPPRESSOR BACK SECTION MUST BE CLEANED PRIOR TO INSTALLATION IF ALTERNATING BETWEEN DIFFERENT-MODEL ADAPTER TYPES. EXAMPLE: ALTERNATING BETWEEN A MUZZLE BRAKE ADAPTER AND A FLASH HIDER ADAPTER.*

1. Attach and detach the suppressor from the weapon several times to dislodge carbon and metal-fouling buildup.
2. Brush and/or scrape carbon & copper residue from suppressor mounting surfaces and adapter. Take care to position the parts so carbon does not fall into the weapon bore or into the suppressor body.

3. Inspect host weapon for any loose debris/residue that may have fallen into the barrel during this process. Any debris/residue should be removed per standard cleaning procedures for host weapon.

4. Compressed air can be used to blow loose debris out of the coupling mechanism. (Eye protection recommended)

*NOTE: GUN CLEANER MAY BE USED TO REMOVE CARBON/ COPPER FOULING FROM BOTH THE ADAPTER AND THE CORRESPONDING INTERNAL MOUNTING SURFACES OF THE SUPPRESSOR. (NON- FLAMMABLE M-PRO 7 IS RECOMMENDED)*

### 10.2 LUBRICATION

Daniel Defense suppressors require minimal lubrication to function effectively. Two drops of gun oil into the locking collar keyway (both sides) may be applied as needed.

## 11. DEMIL PROCEDURES

Silencers/suppressors/mufflers are deemed code “D” items. The preferred method of DEMIL for items assigned code “D” is smelting. Silencers/suppressors/mufflers shall be demilitarized by smelting, breaking, shearing, crushing, deep water dumping, or cutting utilizing a cutting tip that minimally displaces 1/2 inch of metal, or crushed to the extent necessary to preclude restoration to a usable condition. At least three cuts shall be made with at least one cut through the back section/lock ring area. The back section/lock ring area cut shall be at least one wall thickness of the outer tube and shall cut through the entire

length of the back section. Cuts shall be made completely through the tube forward of the back section/lock ring area. Shearing, crushing, deep water dumping, or smelting may be utilized when such methods of DEMIL are deemed cost effective or practicable, and when authorized by the appropriate authority or the DoD DEMIL Program Manager (DDPM).

## 12. SPECIFICATIONS

### Quick-clamping model:

WEIGHT: ..... 17.2 oz

LENGTH (w/COUPLING): ..... 7.6 in.

COLLAR DIAMETER: ..... 1.68 in.

TUBE DIAMETER AT RIBS: ..... 1.59 in.

TUBE DIAMETER AT FRONT: ..... 1.5 in.

### SOUND REDUCTION

Typically reduces a 5.56 round by 30dB & 300BLK by 40dB, depending on barrel length and environmental conditions.

### Direct-thread model:

WEIGHT: ..... 15.45 oz

LENGTH: ..... 7.10 in.

TUBE DIAMETER AT RIBS: ..... 1.59 in.

TUBE DIAMETER AT FRONT: ..... 1.5 in.



## 13. WARRANTY

All Daniel Defense products carry a 100% satisfaction guarantee against defects in original materials and workmanship. If your Daniel Defense product shows evidence of such defects, Daniel Defense will make every accommodation to fix, repair, or replace your product in the most expeditious manner possible. Daniel Defense does not warranty products or damage caused to our products by the correct or incorrect installation of other manufacturer's products. Be sure to retain your sales slip as proof of purchase date when making a claim.



DDWAVE<sup>®</sup>



**PATENT  
PENDING**



**PROUDLY AND EXCLUSIVELY  
MADE IN THE USA**

101 WARFIGHTER WAY | BLACK CREEK, GA 31308

[DANIELDEFENSE.COM](http://DANIELDEFENSE.COM)

THIS DOCUMENT CONTAINS TECHNICAL DATA CONTROLLED UNDER THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (ITAR). EXPORT AND/OR RELEASE FOR FOREIGN PERSONS REQUIRES PRIOR AUTHORIZATION FROM THE U.S. DEPARTMENT OF STATE.