

# RAD™ 9 & RAD™ 45 INSTRUCTION MANUAL

## WARNING

Use proper safety equipment before handling. Ensure firearm is not loaded before installing or removing the suppressor. Only operate the suppressor system with a serviceable firearm and ammunition of the correct caliber. Do not disassemble the suppressor system beyond required level, as shown in this manual, for standard maintenance.

The suppressor system can reach extremely hot temperatures. Use caution before handling after use. Avoid contact with skin or clothing when hot. Improper installation or use may result in serious injury or death.

Discharging firearms in poorly ventilated areas, cleaning firearms or handling ammunition may result in exposure to lead and other substances, which can cause birth defects, reproductive harm and other serious physical injury. Ensure adequate ventilation at all times. Wash hands thoroughly after exposure.

## LEGAL WARNINGS

Suppressors (often referred to as silencers, cans, or mufflers) are controlled under both the National Firearms Act (NFA) (26 U.S.C. §5849 et seq.) and the Gun Control Act (18 U.S.C. §921et seq.).

Storing an unlocked sound suppressor at home with a person who is not registered to possess the device may be construed as "constructive possession" by the ATF, which may be punishable by law.

It is your responsibility to check your local state and federal laws for ownership, hunting, transferring and transporting laws regarding silencers.

## RAD 45



## HOUSING

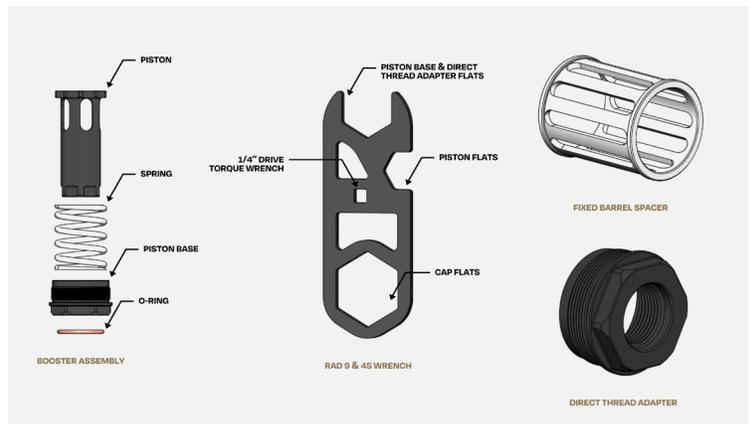


- Note that Flow-Baffles™ will protrude from the end of the housing.
- A 1/2" or 5/8" dowel can be used to push out the Flow-Baffles.
- A flat head screwdriver can be used to separate the Flow-Baffles.

## RAD 9



## RAD ACCESSORIES



# RAD 9 & 45 ASSEMBLY AND INSTALLATION



TORQUE CAP TO 100 LBF-IN (115 KGF-CM)

The RAD 9 & 45 both come preassembled in their long configurations with a booster assembly. The RAD 9 comes with a ½-28 Piston and RAD 45 with .578-28 Piston. Ensure the Cap and Piston Base are firmly tightened or torqued before firing.

## To change the RAD 9 & 45 length configuration:

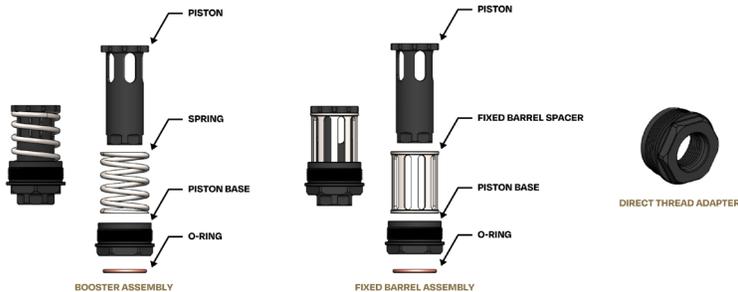
1. Unscrew the Cap and Housing Module from the Housing using the included RAD 9 & 45 Wrench or adjustable wrench.
2. Ensure all threads are clean before assembly.
3. Ensure all Flow-Baffles are properly seated together in the order shown, they do not need to be timed relative to each other and they are interchangeable.
4. Screw the Cap into the Housing.
5. Tighten the Cap using the included RAD 9 & 45 Wrench, firmly by hand or using a ¼ drive torque wrench to 100 lbf-in (115 kgf-cm). This can be done before or after being torqued onto a barrel.
6. When converting back into the long configuration, assemble the Housing Module finger tight then torque the Cap.

**NOTE:** An adjustable wrench on the piston flats can be used as an opposing force to remove the cap and piston base

# ACCESSORY INSTALLATION



TORQUE PISTON BASE OR DIRECT THREAD ADAPTER TO 100 LBF-IN (115 KGF-CM)



1. The Booster Assembly comes preassembled and greased in the RAD 9 & 45. The Booster Assembly with Spring is necessary to function on weapon systems where the barrel reciprocates to cycle. Use high temperature grease on the Piston, Spring, and O-ring before each session of use.
2. To change the configuration from Booster to Fixed Barrel Spacer, replace the Spring with the Fixed Barrel Spacer in the Booster Assembly. The Fixed Barrel Spacer is only to be used on weapon systems where the barrel is fixed and does not reciprocate to cycle.
3. Ensure all threads are clean before assembly.
4. To disassemble the Booster and Fixed Barrel Assemblies from the Housing, use the RAD 9 & 45 Wrench on the Piston Base flats along with an adjustable wrench on the Piston flats if necessary.
5. A Direct Thread Adapter can be used instead of the Fixed Barrel Assembly. Remove all accessory parts before installing the Direct Thread Adapter by itself. The Direct Thread Adapter is only to be used on weapon systems where the barrel is fixed and does not reciprocate to cycle.
6. Tighten the Piston Base or Direct Thread Adapter using the included RAD 9 & 45 Wrench, firmly by hand or using a ¼ drive torque wrench to 100 lbf-in (115 kgf-cm).

# SUPPRESSOR INSTALLATION

**WARNING:** Ensure the firearm is unloaded. Remove the magazine and all ammunition from the workspace. Visually and physically check that the chamber is clear.



TORQUE PISTON OR DIRECT THREAD ADAPTER TO THE BARREL 125 LBF-IN (144 KGF-CM)

1. For handguns, lock the slide open to allow more room for the RAD 9 & 45 Wrench with torque wrench attached.
2. Verify that the barrel and accessory thread pattern match.
3. Ensure all threads are clean before assembly.
4. Thread the suppressor onto the barrel until it bottoms out, either on the crown or shoulder of the barrel depending on the thread.
5. Tighten the Piston or Direct Thread Adapter to the barrel using the included RAD 9 & 45 Wrench, firmly by hand or using a ¼ drive torque wrench to 125 lbf-in (144 kgf-cm).

# SUPPRESSOR CLEANING AND MAINTENANCE

**WARNING:** Ensure the firearm is unloaded. Remove the magazine and all ammunition from the workspace. Visually and physically check that the chamber is clear. Wear proper safety equipment, not limited to safety glasses, chemical resistant gloves.

## Housing and Flow-Baffles

- Recommended maintenance cycle for the suppressor Housings and Flow-Baffles is every 1000 rounds or less.
- Disassemble the assembly down to the individual components shown in the exploded assembly view.
- The Flow-Baffles, Spring, and Fixed Barrel Spacer are heat-treated stainless steel so can be cleaned with a steel bristle brush, wire wheel, ultrasonic cleaner, media tumbler, tools with elbow grease and CLP to remove fouling.
- The serialized housing is titanium coated with high temp Cerakote, and it contains a heat-treated stainless-steel Piston Base that is assembled at the factory with high temp thread locker. A steel bristle brush and tools can be used inside the Piston Base to remove fouling from the Piston interface. The Housing can be cleaned with CLP, nylon brushes and or an ultrasonic cleaner. Ensure all threads are clean before reassembly.
- The Housing Module, Piston Base, Cap are hard coat anodized aluminum. The Housing Module is also high temp Cerakoted. Use nylon brushes and CLP to remove any fouling. Ensure all threads are clean before reassembly.
- The Pistons and Direct Thread Adapters are heat treated and nitride coated stainless steel. They can be cleaned with CLP and a brass or nylon brush and or in an ultrasonic cleaner. Ensure all threads are clean before reassembly.

## Booster and Fixed Barrel Assembly

- Recommended maintenance cycle for the Booster Assembly is to, before each session, apply a light coat of high temperature grease on the bearing surfaces of the Piston, Spring, and O-ring.
- Inspect the O-ring on the inside of the Piston Base for damage before each session. If damaged, remove and replace it with a 018 size Viton O-ring available through HUXWRX.
- To detach the suppressor from the host firearm (lock the slide back if a handgun) use the RAD 9 & 45 Wrench and torque wrench or adjustable wrench on the Piston wrench flats to remove the suppressor from the host firearm.
- To detach the Booster and Fixed Barrel Assemblies from the Housing, use the RAD 9 & 45 Wrench on the Piston Base flats along with an adjustable wrench on the Piston flats if necessary.

# WARRANTY

There is a limited lifetime warranty against all manufacturing defects and damages caused by the normal use of this product. The manufacturer will repair or replace free of charge any suppressor manufactured by or, at the direction of, HUXWRX Safety Co. LLC.

The product is sold "as is" with no further implied contractual rights or warranties beyond those expressly stated herein.

Visit [www.huxwrx.com](http://www.huxwrx.com) for more warranty information.