

Field Manual for AR15/AR10 Platforms

Monolithic Integral Suppressed Barrel (MISB)™ By SWS Rifles (Patented)



The MISB™ combines a rifle barrel and suppressor into one unit.
The system consists of these parts:

- Barrel with integral suppressor baffles
- Suppressor tube
- Gas system with 2 screws
- Threaded endcap (only on pistol-caliber blowback designs, i.e. CMMG RDB uppers)
- Rubber O-rings

Full disassembly and cleaning should be performed after every 250-500 rounds.

Disassembly

1. Remove the hand guard from the upper
2. **(Step 2 is only needed for pistol-cal blowback designs)**
 - Unscrew endcap from barrel. Endcap uses common right-hand threads. If endcap will not unscrew by hand, any flat metal object can be used to leverage the cap. (Back of a knife or a medium screwdriver)
3. Remove the 2 screws retaining the gas system using a 1/8" hex head wrench. The gas tube is permanently fixed to the gas block.
4. To remove the gas system, pull up on the gas block itself until the down-facing nipple on the gas block has cleared the top of the suppressor tube (about 1/2 inch), roll the gas system sideways to keep the nipple clear and slide it out towards the muzzle. If the gas block is firmly stuck to the suppressor by fouling, you may be able to wiggle it side-to-side by hand, but in extreme cases you may need to carefully use pliers or a non-marring wedge. **(Do not bend or crush the gas tube. Damage to suppressor coating may occur.)**
5. Remove suppressor tube from barrel by twisting (this breaks carbon build-up between baffles and tube) and pulling tube forward.

If tube will not come off after endcap or gas block is removed follow these steps:

1. Spray a strong solvent in the breach and muzzle of the rifle. (Bore cleaner, break/carb cleaner)
2. Rotate rifle to spread solvent around. Let rifle sit for 10 minutes.
3. Securely hold the stock and spin the suppressor tube. After the tube breaks free pull forward. (This can take several people to accomplish)

*******Warning***** NEVER GRAB SUPPRESSOR TUBE WITH A WRENCH, PLIERS, VICE GRIPS OR CHANNEL LOCKS.** This will cause damage to the tube making it impossible to remove.

Cleaning

With suppressor tube removed, clean carbon deposits and debris from barrel exterior and from suppressor baffles. It is normal for barrel surface to keep some build-up after adequate cleaning.

Do not use solvents to clean rubber O-rings.

Foreign material (mud, sand, snow, ect.) can be cleared from suppressor cavities with any suitable object, such as 5.56 shell casings, cleaning rod, knife ect.

No special care is necessary while cleaning rifle bore. Clean as any other precision rifle. However, caution must be used to prevent cleaning patches from becoming lodged in suppressor baffles. Never push loose patches through rifle without first removing suppressor tube.

***Cleaning patches or other foreign objects that remain in suppressor can deflect bullet upon firing, causing bullet to strike interior of suppressor with catastrophic results.

To clean interior of suppressor tube stuff oiled rag in one end of suppressor tube. Push rag through tube with rifle barrel.

To remove hard baked on carbon deposits the use of a round wire tube brush is permitted. (McMaster-Carr item #7231T14 or similar) Spray a lubricating oil like WD40 or CLP into tube. Attach round wire brush on to a non-marring rod. (Wood is preferable). Run rod with wire brush through suppressor tube. A power hand drill can be used to speed this process up.

Reassembly

1. Heavily oil or grease O-rings on the barrel (and endcap if applicable)
2. Slide suppressor tube onto barrel. Pull tube rearward while twisting until tube is fully seated.
3. Line up the three holes in the suppressor tube until they match the barrel.
4. Install the gas system by inserting the gas tube into the upper, slide all the way in until the down tube falls into the barrel. Reinstall the 10-32 screws with a 1/8" hex wrench. (torque: 60 INCH-LBs, or as tight as one can go with a straight-handle screwdriver)
5. (Thread endcap onto barrel. Tighten by hand. If applicable)
6. Reinstall the Hand Guard

O-Rings and Screws

O-Rings are high-temp silicone dash 120

McMaster-Carr #9396K142

Screws are 10-32 thread 3/8th" long 1/8" socket round head.

McMaster-Carr #92949A263

Replace O-rings if:

- Suppressor tube rattles when assembled on rifle.
- Gas leaks from under suppressor tube when firing.
- Rubber looks damaged.

-Old O-rings can be pried or cut from rifle and endcap.

-Stretch new O-ring around endcap until it snaps into groove.

-The suppressor tube itself can be used as an O-ring installation tool. Stretch new O-rings around the end of suppressor tube. Slide tube over barrel. Roll O-rings off tube into grooves on rear of barrel.