



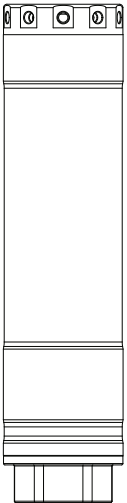
KGM

SUPPRESSORS

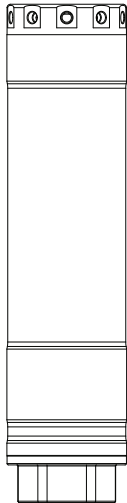
User Manual

For KGM Taper Muzzle Brake Suppressors

R30T, R65T, R338, R50T



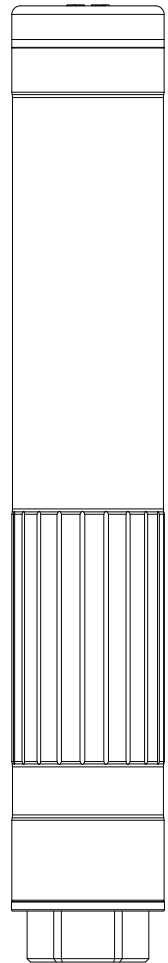
R30T



R65T



R338



R50T

- Safety Precautions 2
- About KGM 3
- Suppressor Nomenclature 3
- Specifications 4
- Muzzle Device Installation 5
- Attaching Taper Mount Suppressor 6
- Removing Taper Mount Suppressor 7
- Suppressor & Bore Alignment 8
- Adjustable Port End Cap (APEC) 9
- Suppressor Maintenance 10
- Limited Lifetime Warranty 11

At KGM Suppressors, we do not accept the status quo. Our suppressors are designed to enhance the performance of the host firearm and shooter.

We are unwavering in our dedication to crafting solutions that not only meet but surpass the expectations of shooters, law enforcement, and military professionals.

KGM Suppressors are engineered to provide superior sound and signature suppression while also enhancing the precision and performance of the host firearm.

All of our products are built with quality materials and precision manufacturing to create a rugged product capable of withstanding hard use over a long service life.

KGM delivers Excellence in Suppression.



Safety Precautions

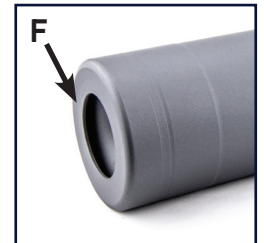
Safety Precautions

- Ensure the host firearm is UNLOADED before mounting or removing the suppressor, cleaning, storage, or shipping
- Wear proper eye protection when firing or cleaning the suppressor or host firearm.
- Depending on the host firearm, ammunition combination, and environmental conditions, firing may produce sound levels above recommended ear safety thresholds. Always wear hearing protection to prevent hearing damage.
- Suppressors are user-attached to firearm muzzles; it is crucial to follow proper mounting procedures. An improperly mounted suppressor can cause bodily harm, suppressor damage, or damage to the host firearm.
- For suppressors with muzzle device mounts, check for proper muzzle device fit before mounting. The mount must fully contact the barrel's shoulder, with no visible gap.
- When mounting the suppressor, ensure it is fully seated and tightened on the muzzle brake.
- Ensure the suppressor internals and bore remain free of obstructions such as dirt, mud, or other foreign debris. NEVER attempt to fire with an obstructed bore, as it may cause bodily harm, suppressor damage, or damage to the host firearm.

Suppressor Nomenclature



Suppressor	
A	Adjustable Port End Cap
B	Suppressor Bore
C	Engraving/Markings
D	Wrench Flats
E	Suppressor Threads
F	Shrouded, Venting End Cap



Muzzle Device	
1	Taper Muzzle Brake
2	Taper Surface
3	Muzzle Brake Threads
4	Wrench Flats

Muzzle Device Installation

Muzzle Device Installation

1. Remove any previous muzzle devices, thoroughly clean, degrease and dry muzzle threads.
2. Thread the adapter onto the muzzle threads until snug. With a wrench, tighten to 30-45 degrees past hand-tight (25-45 ft-lbs) to view final position.
3. If timing the muzzle device, test fit shim combinations until desired alignment of ports when torqued. Do NOT use a crush washer for a suppressor mount.



4. Install the rifle suppressor to test compatibility and fit on the host rifle. It is also recommended to inspect suppressor and bore alignment. (See next page for



instructions). Then remove suppressor, muzzle device and shims.

5. Place several drops of high strength, high temperature LOCTITE® 272 or Rocksett™ onto the muzzle threads.
6. Place the shims, then muzzle device back onto the threads. Tighten with a wrench to 25-45 ft-lbs (35-60 N-meters).
For field expedient tightening, use a wrench and rotate 30-45 degrees from snug.
7. Allow the thread locker to cure overnight before shooting.

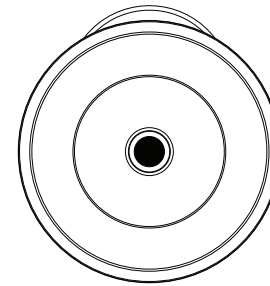


Suppressor & Bore Alignment

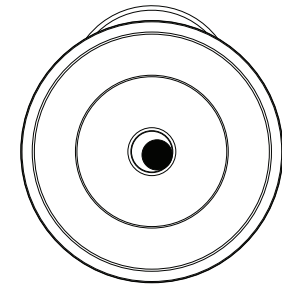
Before firing your suppressor for the first time on a host firearm, use a suppressor bore alignment rod to verify total system alignment. Ensure a proper fitting rod is used for accurate verification, considering potential variances in barrel dimensions and rod specifications.

If misalignment is detected, please promptly contact Customer Support.

REMOVE BORE ALIGNMENT ROD BEFORE FIRING!



Aligned



Mis-Aligned

Attaching Taper Mount Suppressor

WARNING!

Ensure the host firearm is UNLOADED before attaching suppressor.

1. Align the bottom of the suppressor with the muzzle device, and slide suppressor until it makes contact with muzzle device threads.



2. Screw-on the suppressor in a clockwise direction until it completely stops. Firmly grasp the suppressor and tighten onto muzzle brake. For best results to hand tighten, slightly loosen and then quickly "snap" the suppressor into place.



3. Use suppressor wrench to add additional torque for best retention.



Removing Taper Mount Suppressor

WARNING!

Ensure the host firearm is UNLOADED before removing suppressor.

If suppressor is hot, wait for it to cool before attempting to remove.

1. Grasp suppressor and rotate counter-clockwise to loosen and remove.



2. If suppressor is firmly attached, use suppressor wrench on suppressor flats, and muzzle device wrench on muzzle device flats



3. Un-screw the suppressor suppressor in a counter-clockwise direction while holding muzzle device in place.
4. Once the suppressor is free of the muzzle device threads, slide the suppressor off of the muzzle device.

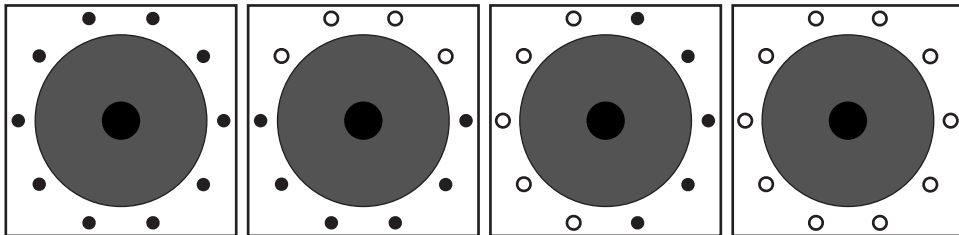
Adjustable Port End Cap (APEC) Instructions



The Adjustable Port End Cap (APEC) feature allows the shooter to tune the exiting gases for their desired results. A shooter may close all of the ports to maximize sound reduction, open all of the ports to maximize gas flow, or close some of the ports to tune recoil impulse.

Examples of APEC Use:

All ports closed, maximum sound reduction.
 Top ports open, bottom ports closed to reduce muzzle rise.
 One side ports open, other side closed, compensate for recoil torque to one side.
 All ports open, functioning as a radial muzzle brake to maximize gas flow.



Installation of APEC Screws

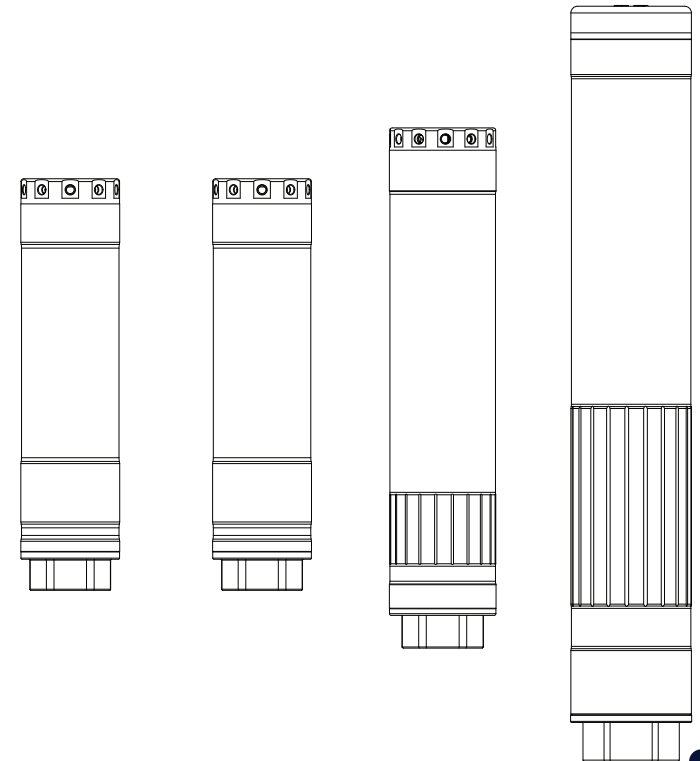
1. It is recommended to place the screw onto the end of an Allen key or tool bit for insertion.



2. Thread the screw into the desired hole and tighten clockwise until the screw bottoms out.

Specifications

	R30T	R65T	R338	R50T
Length	7.3" (185mm)	7.3" (185mm)	9.1" (231mm)	14" (356mm)
Diameter	1.75" (44.5mm)	1.75" (44.5mm)	1.87" (47.5mm)	2.25" (57mm)
Weight (w/o mount)	13 oz (368g)	13 oz (368g)	19 oz (538g)	46 oz (1,315g)
Caliber/Bore	.30 / 7.62mm	.264 / 6.5mm	.338 / 8.6mm	.50 / 12.7mm
Construction	Titanium	Titanium	Titanium	Titanium
End-Cap Design	APEC	APEC	APEC	Shrouded, Venting
Cartridge Rating	.300 Norma	6.5 Magnums	.338 Lapua/ .338 Norma	.50 BMG
Full Auto Rated	No	No	No	No
Included Muzzle Device	5/8x24 Taper Muzzle Brake	5/8x24 Taper Muzzle Brake	3/4x24 Taper Muzzle Brake	1"x14 R50T Muzzle Brake



Firing Schedules & Service Life

KGM Suppressors are engineered for duty-use, and incorporate a design that efficiently channels gas from the host firearm, through the suppressor, and away from the shooter during the firing process. However, after many firing sessions, carbon accumulation can occur within the suppressor and cleaning may be required.

A good practice is to weigh your suppressor when new, and denote that initial weight. Then periodically weigh it during host firearm maintenance to measure fouling. If several ounces have been accumulated, a heavy cleaning cycle should occur.

Regular Maintenance

Routine maintenance for KGM suppressors is minimal. During standard host weapon maintenance, clean and inspect the mounting surfaces of both the suppressor and the muzzle device.

Use a brush to eliminate carbon and copper fouling from accessible surfaces. Common gun cleaning chemicals are suitable. Wipe clean or rinse with water and dry.

Heavy Cleaning

Perform a more thorough cleaning cycle for the suppressor after several thousand rounds (2,000-3,000), on an annual basis, or as necessary due to fouling or loss of effectiveness.

- Place the suppressor in a chemically resistant container or plug the muzzle and position it muzzle-down inside the container.
- Fill the container/suppressor with CLR® cleaner, 30% Vinegar solution, OR similar suppressor cleaner, and soak for 24 hours.
 - NOTE 1: Certain cleaning solutions or chemicals may cause color discoloration.
 - NOTE 2: Ultrasonic cleaners are a viable cleaning option, however discoloration or scratching may occur.
- Remove the suppressor from the container and drain of fluid.
- Rinse the suppressor with water.
- Brush any accessible carbon buildup and rinse with water again.
- Use compressed air to dry suppressor internals.
- Fire 5-10 rounds of live ammunition to expel any loosened carbon and remaining fluids.

Muzzle Device

The muzzle device is a sacrificial component for heavy-use suppressors, and may require replacement due to erosion, particularly with short barreled rifles. Periodically inspect the muzzle device during rifle maintenance and replace if necessary.

Warranty Statement

KGM provides a limited lifetime warranty for our suppressors and suppressor-related accessories. We will repair or replace any KGM product that is deemed to have manufacturing, material, or workmanship defects if determined by KGM to be defective.

KGM does not warranty normal wear and tear, use of non-standard (SAAMI/NATO) ammunition, unauthorized modifications, alterations, or repairs, improper maintenance, abuse, misuse, improper mounting, or neglect. Repairs not covered under warranty will be at owner's expense, with the owner given approval authority before commencing repair work. Any serial number obliteration or alteration will void the warranty.

KGM will attempt to repair discontinued models subject to parts availability, or a comparable, currently produced model may be offered as a replacement.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

Warranty Claims

For repair or replacement, email Customer Service at info@kgm-tech.com, or call at 770-769-1495, to obtain a Return Merchandise Authorization (RMA) number and instructions. Additionally, an RMA request can also be submitted through the website at www.kgm-tech.com. You will be supplied with additional shipping instructions specific to the product being returned.



kgm-tech.com



info@kgm-tech.com



(770) 769-1495



4900 Avalon Ridge Parkway
Peachtree Corners, GA 30071



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