



Sporting and Target Rifles

Owner's Manual



Telescopic Reflex Suppressors T4 and T8 are all-steel sound moderators designed for use with centre-fire sporting and target rifles with full-power cartridges to help avoid the risk of hearing loss and to comply with current United Kingdom workplace noise regulations. The suppressor reduces environmental noise pollution but does not reduce bullet velocity.

Because of its telescopic layout, most of the suppressor extends behind the muzzle, and the suppressor supports itself at two points on the barrel. A removable barrel bushing at the rear of the suppressor means that the same suppressor can be used on separate rifles with different barrel diameters. The two-point mounting system is very strong, and a telescopic Reflex Suppressor withstands shooting even when fitted a few turns loose, which would normally damage traditional forward-mounted suppressors.

Telescopic Reflex Suppressors come in two standard lengths: the T4, with four suppressing baffles, extends the rifle by only 65 mm (2½"). The longer T8, with eight baffles, extends the rifle by 98 mm (4"), and provides approximately 2 to 4 dB better noise suppression. Reflex Suppressors are available with four different bullet hole diameters in the baffles, the largest being 458 Magnum. A larger Reflex Suppressor model is available for .50 BMG. Smaller T4AR and T8AR versions are available for the AR-15 and other rifles with 223 Rem or smaller cartridge case capacity.

The T4 and T8 Reflex Suppressors typically reduce peak noise exposure of the shooter from the usual unsuppressed level of about 160 dB down to below the United Kingdom maximum limit of 137 dB. *Please note:* no suppressor can eliminate the ballistic "crack" of a supersonic bullet, but the sound of the report from a T8 towards the shooter is usually no louder than the unsuppressed snap of a .22 rimfire rifle shooting Hi-Velocity .22 LR cartridges.

Maintenance: Remove the suppressor after each shooting session; this allows condensation from the powder gases to evaporate away. After use, spray some WD40®, Napier® or similar light gun oil into and onto the suppressor and keep the barrel and muzzle thread greased to prevent corrosion. Otherwise, the Reflex Suppressor is practically maintenance-free. Normal fouling by powders and primers does not affect its functioning. Loose particles, such as powder kernels or carbon chips, are easily removed by shaking the suppressor vertically whilst holding it in a vertical position. Washing with liquids or solvents is not recommended.

Fitting must be carried out by a competent gunsmith - **even if the rifle barrel is already screw-cut for a silencer!** As the suppressor extends telescopically backwards from the muzzle and around the barrel, the front sight will have to be removed. A thread is cut on the muzzle with a lathe; for details, see fitting instruction sheet. Telescopic suppressors can not be mounted on rifles which have a full-length tubular magazine or fore-end. The forward-mounting Ase Ultra S5 or jet-Z™ suppressors may be used on these.

Tightening the suppressor on the muzzle: When screwing the Telescopic Reflex Suppressor onto your rifle, tighten it only moderately. It is advisable to use only as much force as can be applied with the fingers of one hand. Do not over-tighten. Over-tightening may result in excess shift of group or loss of accuracy. It is best always to tighten the suppressor to the same finger-felt tightness, to ensure optimum accuracy and to keep the same point of impact.

Shooting with a suppressor: the Reflex Suppressor is a highly efficient muzzle brake, due to the containment and deceleration of the muzzle blast inside the suppressor jacket. When properly fitted, a suppressor does not usually increase the spread of impacts - it often tightens the group. The additional weight on the barrel shifts the location of the group centre, but any displacement is easily corrected by sight adjustment. The extent of any displacement is usually less than 1 MIL or 4 Minutes of Angle (<10 centimetres at 100 metres), depending on the type of rifle and ammunition.

Warnings: Do not shoot shotshells, unstable projectiles or discarding sabot bullets through a suppressor, as they may damage it. With self-loading rifles, suppressors tend to increase powder gas blowback through the action opening after the shot. If using rifles with this tendency, wear shooting glasses to prevent powder particles from getting into your eyes.

Safety:

- Please observe all usual safe gun handling precautions.
- The pressure in a fullbore suppressor momentarily reaches several hundred p.s.i. – do not fire a suppressed rifle with the muzzle any closer to any person than you would without the suppressor.

Reflex Suppressor T4 or T8 accessories:

- Standard:** a thread cap for M14x1, M15x1, M17x1 or M19x1 muzzle threads with spigot.
On request: thread caps for M18x1, UNF and UNEF muzzle threads
 extra barrel bushings for mounting one suppressor on separate rifles.

Warranty

BR-Tuote Reflex™ suppressors are fully guaranteed against defects in materials or workmanship for twelve months from date of purchase. In the event of a warranty claim, the suppressor must be returned to Jackson Rifles, carriage paid, together with the original Owner's Manual, proof of purchase and this warranty claim form. Jackson Rifles' sole responsibility under this warranty shall be the repair or replacement of the suppressor.

This warranty does not affect your statutory rights.

Limited Lifetime Guarantee

Any BR-Tuote Reflex™ suppressor of current manufacture, regardless of age or condition, will be replaced or reconditioned to new, including a new Warranty, if returned to Jackson Rifles with payment equal to 60% of the current retail price.

Please phone us for a returns number before sending your suppressor!

Returns No.:

Name:

Address:

.....

City: Postcode:

Telephone No.:

FAC No.: Issued by:

Suppressor Model: Calibre:

Purchased from: Purchase date:

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Jackson Rifles is a division of Forge Consulting Ltd, RFD 108 (Dumfries & Galloway)

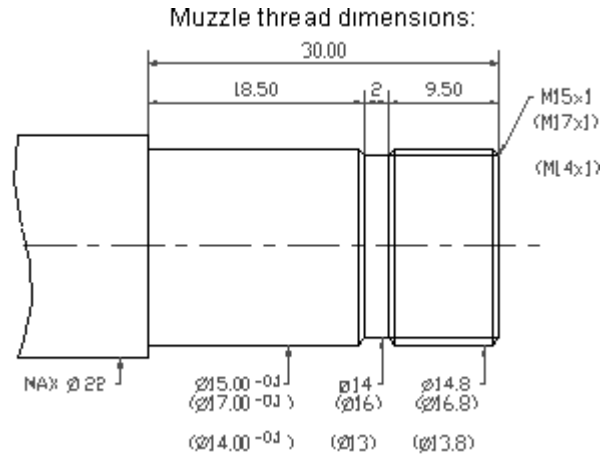


Fitting Instructions

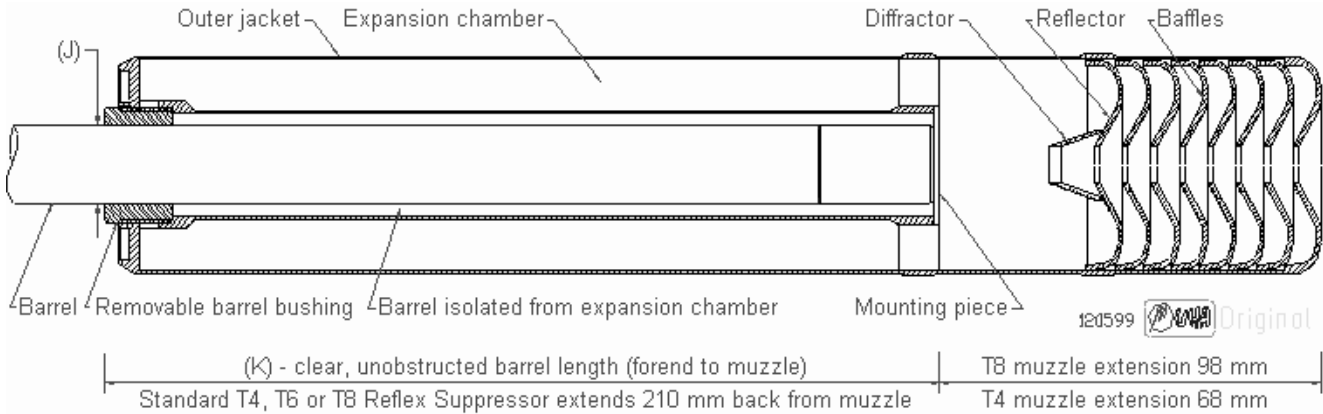
Standard muzzle threads are ISO M14x1, M15x1, M17x1 or M19x1 with spigot. Thread is selected to suit the calibre and barrel diameter of the rifle. Reflex Suppressors can be supplied with practically any other thread on request.

Please note!

1. Remove the front sight.
2. Fasten the barrel in a 3- or 4-jaw lathe chuck at the position of the back of the suppressor (usually 210 mm from the muzzle) with the muzzle supported on a rotating centre.
3. Make a metric thread with a relief cut and a cylindrical "spigot" between the thread and the shoulder (see drawing, right).
IMPORTANT: for threads other than listed above there is no "spigot", so the dimension from muzzle crown to shoulder is 11.5 mm instead of 30.0 mm (except T8SSR - see special drawing). If in doubt, please ask!
4. The thread should be slack enough to allow the suppressor to freely align itself by the rear bushing (see note "Muzzle Thread Tolerance" below).
5. After thread cutting, check the muzzle and re-crown if necessary.
6. Unscrew the barrel bushing from the back of the suppressor.
7. Screw the suppressor on the muzzle without the barrel bushing.
8. Measure the diameter of the barrel at the back of the suppressor (typically 210 mm from the muzzle).
9. Enlarge the barrel bushing hole in a lathe to the measured barrel diameter + 0.02 mm. A threaded tube for holding the bushing in the lathe chuck is recommended.



T8 Reflex Suppressor



If the barrel can not be fastened in a three jaw lathe chuck at the position of the suppressor back end, the barrel may be held at the breech end in a 4- or 6-jaw independent chuck and adjusted for zero run-out at the position of the rear of the suppressor. It is important to make sure the muzzle is centred for thread-cutting against a rotating conical support of the lathe. Unsupported threading will lead to poor suppressor alignment and bullets grazing baffles. If necessary, take a light cut with a tight-fitting live pilot 60-degree centre reamer to correct any eccentricity in the muzzle crown and ensure adequate bearing surface for the rotating centre. Check and, if necessary, re-crown the muzzle after thread cutting is complete.

Muzzle Thread Fitting Instructions:

Muzzle Thread Tolerance: The muzzle thread should have enough play to allow the suppressor freely to align itself according to the barrel bushing. The thread should NOT be dragging tight. It should be loose enough to act a bit like a spherical joint. Correct thread tolerance is easily checked by first screwing the suppressor without barrel bushing fully onto its thread - *do NOT tighten it yet!* - and then unscrewing it half a turn. Then swing the back end of the suppressor sideways; the thread should allow it to swing freely to and fro about three millimetres. If the suppressor back end does not swing for at least two millimetres, the thread is too tight and it should be cut looser.

Tip for Optimum Precision: To ensure optimal aligning during the mounting procedure do NOT screw the suppressor TIGHT on the muzzle thread WITHOUT the barrel bushing. When screwing the suppressor onto the barrel without the barrel bushing, tighten it only very lightly. Only after the muzzle thread and barrel bushing fitting is completed, and with the bushing attached to the suppressor, should the suppressor be tightened to the finger-tightness described overleaf. The purpose of this procedure is to attain maximum aligning precision by letting the virgin metal surfaces of the muzzle thread and the suppressor mounting piece to settle against each other in correct alignment when tightened for the first time.

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Suppressor fitting QA check-sheet

Please ensure that the customer receives a copy of this check-list, which should accompany any warranty claim

Gunsmith/Armourer:	
Address:	
Tel:	Fax:

Suppressor details:					
Model:	Calibre:	mm	Thread:	Rear tube int. dia:	mm

Rifle (1) details:							
(If fitting a suppressor to more than one rifle, please complete these details for each rifle)							
Make:	Model:	Calibre:	Serial No:				
Barrel outside diameter @ muzzle:		Barrel OD @ rear bush:					
Muzzle thread outside diameter:		Bush internal diameter:					
Bush run-out - i.e. (difference between max and min bush rim thickness) ÷ 2:							
Final inspection and alignment check by:				Test fire date:			

Rifle (2) details:							
Make:	Model:	Calibre:	Serial No:				
Barrel outside diameter @ muzzle:		Barrel OD @ rear bush:					
Muzzle thread outside diameter:		Bush internal diameter:					
Bush run-out - i.e. (difference between max and min bush rim thickness) ÷ 2:							
Final inspection and alignment check by:				Test fire date:			

Rifle (3) details:							
Make:	Model:	Calibre:	Serial No:				
Barrel outside diameter @ muzzle:		Barrel OD @ rear bush:					
Muzzle thread outside diameter:		Bush internal diameter:					
Bush run-out - i.e. (difference between max and min bush rim thickness) ÷ 2:							
Final inspection and alignment check by:				Test fire date:			

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