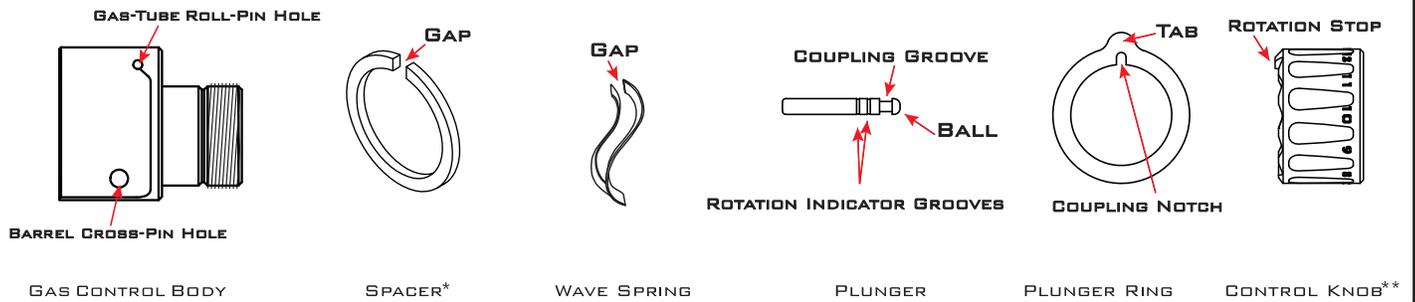




**MAINTENANCE INSTRUCTIONS FOR THE RIFLESPEED
AR15/AR10 GAS CONTROL**

Keeping your Gas Control operating effectively is a simple process. Following the instructions below will keep your Gas Control performing well. Refer to the **Exploded View** and **Nomenclature Diagrams** for terms and component names.

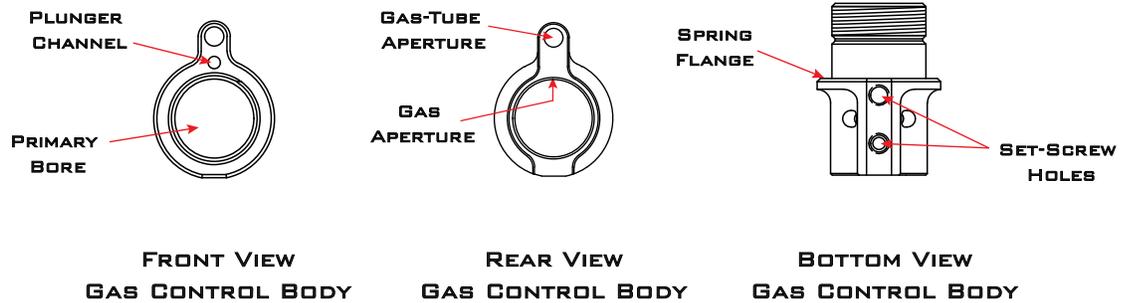
EXPLODED VIEW DIAGRAM OF RS7519/RS6219 ASSEMBLY



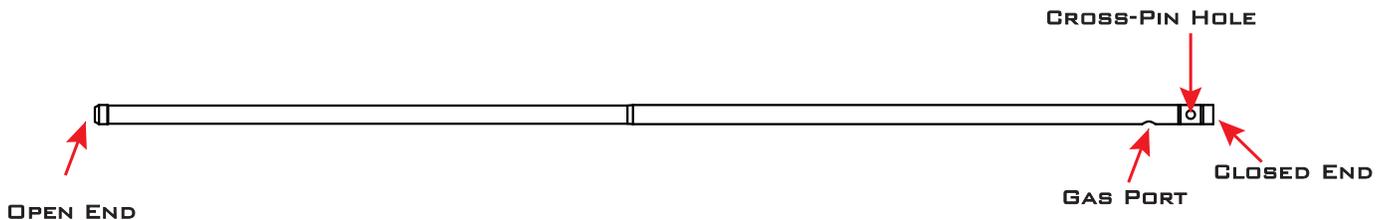
* SPACER (SOLD SEPARATELY) IS USED ON ROTATION RANGE TWO ONLY. DO NOT USE ON ROTATION RANGE ONE

** CONTROL KNOB LENGTH VARIES BY MODEL

NOMENCLATURE DIAGRAM

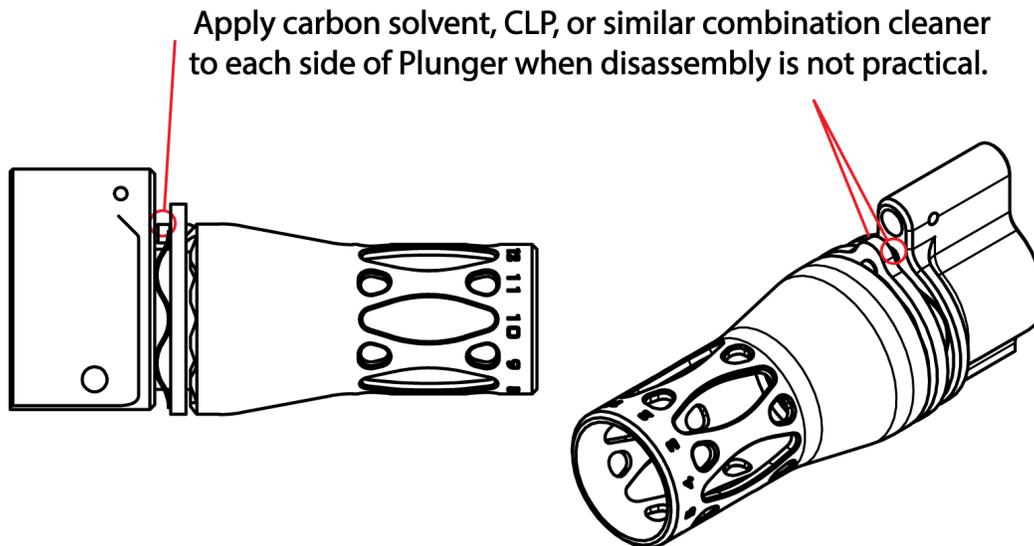


STRAIGHT GAS TUBE



SELF-CLEANING: EVERY TRAINING OR FIRING DAY

At the conclusion of each training or firing event, apply a drop of CLP or other gun oil to the Plunger where it enters the Gas Control Body and rotate the Control Knob from your selected setting number to setting #1 then to setting #12 and back to your selected setting number. Doing this will allow the mechanism to lightly clean itself and ensure that no grit or debris is impeding the adjustment of your Gas Control. This simple process ensures that your Gas Control will provide trouble-free performance throughout its service life and requires less time and effort than lubricating your bolt carrier group.



CLEANING INTERVAL 1: CLEAN EVERY 750 ROUNDS OF HIGH-QUALITY BRASS-CASED MILITARY OR COMMERCIAL AMMO OR EVERY 400 ROUNDS OF STEEL-CASED IMPORTED AMMO

For configurations where the Gas Control is exposed, disassembly can be accomplished quickly for cleaning. External cleaning consisting of brushing all surfaces of disassembled components should be conducted every 750 rounds or less. Imported steel-cased ammo (often used for 7.62x39mm carbines, for example) develops significantly more fouling and will benefit from cleaning in as little as 375-400 rounds. Upon reassembly, apply one or more drops of CLP or similar oil/cleaner to the Plunger where it enters the mouth of the Plunger Channel. Depress the Plunger Ring several times to move the Plunger within the Plunger Channel. This helps the oil spread throughout your Gas Control. Lightly oiling in this manner mitigates fouling significantly and serves as an expedient cleaning (more on this later).

CLEANING INTERVAL 2: DISASSEMBLE AND CLEAN AFTER EVERY 1500 ROUNDS OF HIGH-QUALITY BRASS-CASED MILITARY OR COMMERCIAL AMMO OR EVERY 800 ROUNDS OF STEEL-CASED IMPORTED AMMO

External and internal cleaning consisting of brushing all surfaces and components including the complete depth of the Plunger Channel (pipe cleaners work well for this) should be conducted every 1500 rounds or less when firing high-quality brass-cased ammo or 800 rounds of imported steel-case ammo. After brushing these components inside and out apply CLP or similar combination cleaning product to the inside of the

Plunger Channel and exterior of the Plunger. Control Knob and Body threads should be kept free of grit and debris.

EXPEDIENT CLEANING

If the prescribed cleaning cannot be conducted at these intervals, apply CLP or similar combination cleaning oil to each side of the Plunger where it enters the Gas Control Body as previously described and illustrated in these instructions after each range day and every time you lubricate the bolt-carrier group of your firearm. This technique is also helpful in configurations where the Gas Control is installed under an extended handguard. While disassembly and reassembly are possible when the Gas Control is placed under an extended handguard, reassembly can be tedious, depending on configuration.

During the rigorous developmental testing done to insure your RIFLESPEED Gas Control is capable of handling the most rugged duty use, we repeatedly fired more than 2,000 rounds and as many as 6,000 rounds with no disassembly or cleaning of the Gas Control by applying CLP or a similar cleaner/lubricant to the Plunger before and after each range day or at the previously described intervals. Consistent application of a combination cleaning/lubricating product like CLP will mitigate the need for maintenance disassembly and cleaning. Thorough cleaning as detailed in preceding sections is preferred.

When a more thorough cleaning is required, it is not necessary to completely remove the Plunger Ring from the Gas Control Body. With the Plunger Ring moved to the forward end of the Gas Control Body threads, there is adequate exposure of the Plunger to facilitate cleaning with a brush and application of CLP or similar solvent and cleaner. The size and shape of ventilation cutouts on your handguard might affect access to this area if your handguard must remain in place.

If you encounter unusual resistance when turning the Control Knob to adjust the amount of gas delivered to your carbine's action, apply one drop of CLP, carbon solvent, or a combination-type cleaning product to each side of the Plunger where it enters the Plunger Channel as described and illustrated in the daily cleaning section of these instructions and to the Gas Control Body/Control Knob threads. If resistance continues, follow disassembly and cleaning steps as previously detailed. Verify that the Control Knob threads are free from grit and debris.

PARTS INSPECTION AND REPLACEMENT

- Inspect the Set Screws each time you use your carbine. It is helpful to make an alignment mark across the installed and tightened Set Screws and their threaded holes using a paint marker. This will reveal any loosening of the Set Screws should this occur.
- Inspect the location of the Gas Control. Set screws that were not properly installed with high-temperature thread locker can loosen over time. If this happens the Gas Control will forward slightly each time a round is fired. There will be an increased gap between the Gas Control Body and the barrel shoulder should this occur. If left in this condition the Gas Control will move forward until function ceases. Barrels with hard Nitride surface finishes (also called Black Nitride, Nitride QPQ, Melonite[®], or Melonite[®] QPQ[®]) are particularly susceptible to this issue and dimpling of the barrel surface under one or both set screws may be required. If dimpling is not possible, moderately

scoring the surface of the barrel under each set screw with a file, sandpaper, or using a hardened centerpunch to make several small indentations on the barrel surface under the set screws will help keep the set screws in place. Pinning the Gas Control Body to the barrel with the supplied coil pin is recommended for military or tactical weapons.

- Inspect the Plunger for erosion when conducting the 1500-round cleaning process detailed above or each time the plunger is removed during disassembly. Some erosion is normal. The Plunger may be rotated in varying orientations during reassembly to limit erosion in any one portion of the Plunger. Replace Plunger if more than 50% of the plunger's diameter has been eroded, if function changes, during barrel replacement, or during up-echelon maintenance. Plunger-replacement interval, like barrel-replacement interval, will vary according to firearm configuration, chambering, firing schedule and can be between 10,000 and 25,000 rounds. Replacement of the Wave Spring is recommended any time a Plunger is replaced. Wave Spring and Plunger replacement are user-level tasks.
- Inspect Control Knob and Gas Control Body for cracks or damage if direct impact occurs during rough handling or use.

For additional information, images, and videos, please visit www.riflespeed.com. Check out the RIFLEBLOG for detailed articles and content that will help you keep your carbine running with ideal performance. Be sure to sign up for our newsletter to receive the latest news and announcements.

RLTW

