Product:
JPSCS-15K,
JPSCS-10K,
JPSCS-15K-H,
JPSCS-10K-H

JP ENTERPRISES

JP SILENT CAPTURED SPRING ASSEMBLY KIT

US Patent Number 8,800,424

PARTS INCLUDED

- JP Silent Captured Spring
- Rifle-length spacer
- Alternate rate springs
- Loctite® 263

CAUTION: REMOVE THE MAGAZINE AND VISUALLY CHECK THE CHAMBER TO ENSURE THAT YOUR FIREARM IS UNLOADED.

WARNING

The Silent Captured Spring unit in this kit has been only partially assembled. The screw retaining the mass slider and spring must be secured with thread locker before final installation of the JPSCS. **Do not install the JPSCS for regular use without securing this screw with thread locker.**

The screws of the the JPSCS are metric (M5) and require a 3mm hex key.

The **JP Silent Captured Spring** is a drop-in module replacement for the traditional buffer plunger and buffer spring components of the AR-15 and AR-10 platforms. By all but eliminating the raspy scraping of the buffer spring against the interior of the extension tube, the JPSCS yields a virtually silent cycling action with a dramatic reduction in friction and vibration during live fire. This complete assembly kit includes the JPSCS unit with several alternate rate springs to facilitate more precise tuning and refinement of your rifle's cycling.

The JPSCS is designed and intended for semi-automatic use only and is not recommended for full-auto applications. Also, while the JPSCS has been tested in numerous rifles without malfunction, this is no guarantee of function in all rifles. As with any gas gun component, there are simply too many possible rifle configurations, barrel lengths and calibers available within both the AR-15 and AR-10 platforms to test and verify universal function of the JPSCS system. See reverse for known compatibility issues, and if the unit does not function in your rifle, please contact JP via phone or email to arrange a return of the JPSCS to the original point of sale.

COMPARATIVE JPSCS SPRING RATES

HEAVIER

JPSCS-15	JPSCS-10
JPSCS-15-80 White - Uncolored	JPSCS-10-100 Red - Uncolored
JPSCS-15-85 Black - Uncolored	JPSCS-10-105 Red - Uncolored
JPSCS-15-90 Green - Uncolored	JPSCS-10-110 Red - Yellow
JPSCS-15-95 Yellow - Uncolored	
JPSCS-15-100 Uncolored	

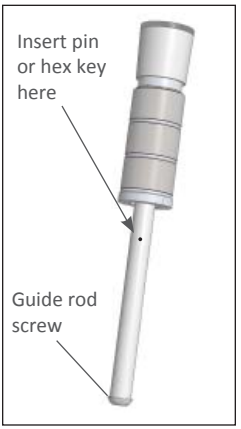
P.O. Box 378, Hugo, MN 55038 | Voice: 651-426-9196 | Fax: 651-426-2472

JPSCS ASSEMBLY INSTRUCTIONS

The following steps will detail how to assemble the JPSCS unit in order to change out the operating spring. As a general rule for selecting an alternate spring, install a heavier spring if you feel the buffer head fully compress and bottom out while firing the weapon with the existing spring. If the bolt carrier will not lock back reliably on the last round fired even when completely gassed (in the case of an adjustable gas block), select a lighter spring. The ends of the springs have been color-coded for ease of identification. To ensure your intended result, refer to the preceding table. Be aware that with repeated use, the coloring will wear off these springs, so you may wish to label them.

1. From the springs provided, select one from the table above. The highlighted springs represent the default option we use and are a good starting point.

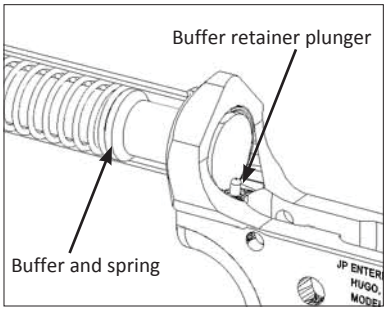
2. Insert the spring onto the guide rod and compress it completely with the mass slider until it reaches the bumper. Then, insert a hex key or other suitable tool into the hole through the guide rod to retain the mass. For your ease, you may wish to secure the JPSCS in a vise for this step. The spring pressure is approximately 15 lbs., so point these components away from your face as a precaution in case they do fly apart.



3. Install the guide rod screw and tighten it securely to retain the mass slider. **Note that the screws of the the JPSCS are metric (M5) and require a 3mm hex key. A standard bit may be a close fit but will begin stripping the screw.** Remove the hex key from the guide rod.

4. Install the JPSCS into your rifle as described in the installation instructions. With your rifle reassembled with the SCS, test fire a few rounds to assess the function with the current spring.

5. When you are satisfied with your spring selection, clean the guide rod screw with solvent and dry completely. Then, apply the included Loctite® 263 or an equivalent thread locker to the threads of the guide rod screw and tighten to 3-5 foot-pounds. Allow 24 hours for the thread locker to set before use.



JPSCS INSTALLATION INSTRUCTIONS

1. Remove the existing buffer and spring by slightly compressing the buffer and then compressing the buffer retainer plunger with a small punch. Release the buffer slowly, removing it and the buffer spring from the extension tube.

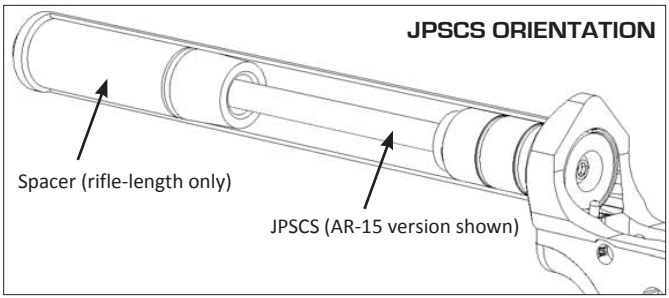
2. If you are using a rifle-length stock and extension tube, insert the white spacer into the extension tube. This spacer is not needed for carbine stocks/tubes.

REMOVAL OF BUFFER RETAINER PLUNGER AND SPRING

While the JPSCS will function with or without them, you can remove the buffer retainer plunger and spring at this point. With these components removed, installation and removal of the JPSCS is much easier, though be aware the traditional buffer and spring components will be cumbersome to use without the retainer and plunger.

To remove the retainer plunger and spring, you'll first need to remove the stock and buffer tube from the receiver to gain access, after which you can reinstall the extension tube and stock taking care not to lose or damage the rear takedown pin detent and spring.

3. Insert the JP Silent Captured Spring into the buffer tube oriented as shown. You may have to depress the hammer to the cocked position or a little further to allow enough clearance around the trigger components. Likewise, on certain two-stage triggers, you will have to hold the hammer in the half-cocked position to achieve sufficient clearance.



4. Reassemble the upper and lower assemblies with the front pivot pin and slowly lower the upper into position. Watch carefully as the receivers are closed to verify that the SCS buffer head contacts the bolt carrier. If you are not certain if there is a gap, finish reassembling the rifle and then shake it back and forth gently, listening for the sound of the SCS sliding back and forth in the buffer tube. The unit should not be moving freely.

   The precise length of the SCS was chosen to accommodate most rifles, but if you detect a gap between the bolt carrier and SCS, this is due to slight variations in the manufacturing tolerances of the buffer tube, bolt carrier and receivers. To shim this gap, the best solution we've found is to simply place a quarter in the buffer tube before installing the SCS. It will not be necessary to use more than one, and you should not use extra shimming to "preload" the SCS. The alternate rate springs are intended for this purpose.

JPSCS DISASSEMBLY INSTRUCTIONS

1. Compress the buffer spring by hand and insert a hex key or other suitable tool into the hole through the guide rod to retain the mass. For your ease, you may wish to secure the JPSCS in a vise for this step.

2. If you have not applied thread locker to the guide rod screw, you can remove it now by hand. If you choose to change the spring out after you've applied thread locker, you'll need to break this down by applying heat with a propane torch or powerful heat gun to the guide rod while using a hex wrench to apply turning pressure to the screw. Once the screw breaks loose, remove the heat source and the screw.

3. Remove the hex key while retaining the compressed mass with your hand. As stated earlier, be sure to point these components away from your face as a precaution in case they fly apart.

4. Slowly relax the spring and remove both the spring and buffer mass from the guide rod.

5. If needed, remove any remaining thread locker on the guide rod and screw by cleaning the guide rod in lacquer thinner, acetone, brake cleaner or equivalent. Allow the part to air dry or blow the threads out with compressed air to remove solvent.

6. Repeat the assembly instructions with another spring as desired. When you have made your final selection, complete step 5 of the assembly instructions.

To achieve the utmost from the JPSCS, we recommend lightly oiling the spring and guide rod of the unit periodically. If the unit becomes fouled, clean with hot, soapy water, blow dry with compressed air and apply light oil (rather than grease) to the spring and guide rod.

During regular rifle maintenance, check the tightness of the hex head screws at the ends of the JPSCS. If they are loose, remove them, clean the threads and reapply Loctite® 263 before reinstalling.

THANKS FOR YOUR BUSINESS!

COMPATIBILITY

JPSCS-AR15: The JPSCS-AR15 does not currently function with any Primary Weapon Systems (PWS) bolt carriers. The back bore on the PWS bolt carriers is not compatible with the JPSCS.

JPSCS-AR10: Unit will not function with longer Armalite carbine-length extension tubes unless the spacer is modified to accomodate the extra length. It will also not function with the HK MR762, the Sig Sauer 716, or the Rock River Arms LAR-8 due to its longer bolt stroke.