

# PANTHEON ARMS



## KENTRI SHORT BUFFER INSTALLATION INSTRUCTIONS

Thank you for purchasing the Pantheon Arms Kentri short-buffer system for AR15 variants! Please read the full instructions prior to installing the Kentri and contact us if you are unsure of any steps. Although not necessary, it is recommended a gunsmith perform the installation of this product.

*Please note that once the Kentri is installed on your AR15 variant you will need to remove the buffer internals to safely remove your upper receiver from the lower receiver, or pivot. Detailed instructions for this can be found at the end of these instructions.*

### What's in the box:



### WARNING

Ensure that your firearm is unloaded and the chamber is clear prior to installing the Kentri short buffer system. Failure to do so could result in damage to property, injury and/or death.

### Parts needed to complete install:

- Complete upper receiver with charging handle and bolt carrier group (with or without barrel installed)
- Lower receiver with at least the take-down pin installed, or parts available to install (take-down pin, take-down pin detent and spring)
- Lower receiver end plate, standard GI or QD, etc. (requires modification)

### Tools needed:

- AR15 armorer's tool or castle nut wrench (recommended but not necessary)
- Dremel type rotary tool or hand file for modifying the receiver end plate
- Flathead screwdriver (1/4" wide recommended)

### Modifying the Receiver End Plate

The Kentri buffer tube requires that the small tab at the 6 o'clock position of the receiver end plate be removed. This can be accomplished by the use of a rotary cutting tool or hand file to remove material until the end plate slides over the buffer tube threads. If your receiver end plate does not have a small tab at the 6 o'clock position, skip this step.



### Prepping your receivers for install

Before installing the Kentri buffer tube on your receiver you will need to remove any previously installed buffer tubes and receiver end plates, as well as the buffer detent and detent spring, from your lower receiver. Be mindful of the take-down pin detent and spring when you are removing those items as it is under tension and easily launches across the room if you are not careful! Leave your BCG and charging handle installed in your upper, and attach your lower to it. With your receiver void of any buffer tube, you are ready to install the Kentri.

If you're not sure of what you are doing, please consult a gunsmith.

## Installing the Kentri buffer tube and receiver end plate

You will need the Kentri buffer tube, your modified receiver end plate, and your lower receiver for this step. Place your end plate over the buffer tube threads with the protrusion of the plate facing the receiver. If you have not yet installed your take-down pin in your lower receiver, do so now.



Carefully begin threading the tube into your lower receiver while ensuring the take-down detent spring remains straight as you thread the tube flush to the receiver. Use your castle nut wrench to torque the buffer tube to your receiver once it is flush.

## Internal component orientation

You will need the carrier spring, carrier insert, recoil spring, and guide rod. Assemble the internal components of the Kentri by sliding the carrier spring over the carrier insert, followed by inserting the recoil spring inside the flared end of the carrier insert, and finally, inserting the guide rod in the open end of the recoil spring. The open ends of the springs are identical and do not have a specific orientation.



## Installing internal components

You will need the internals from the previous step and your upper and lower receiver. Attach your upper receiver to your lower, then slide the internals – leading with the carrier insert – through the buffer tube and into the rear of your bolt carrier group. The recoil spring and guide rod will protrude through the open end of the tube.

## Installing the end cap

You will need everything that you have assembled thus far and the end cap. A recess is machined in the cap itself for the guide rod to seat inside. Place the end cap over the guide rod and push towards the buffer tube. Begin rotating the end cap to engage the internal threads of the tube slowly while being mindful to keep the cap perpendicular to the tube to avoid cross threading. If you feel resistance when engaging the threads, you will need to adjust the position of the end cap so it is perpendicular to the tube. Once the cap is hand tightened and flush with the tube, use a flathead screwdriver or small coin to ensure it is tight.



## Function test

Pick up your Kentri equipped AR15 and cycle the bolt a few times using the charging handle. Lock the bolt to the rear with the bolt catch and release the bolt using the bolt catch. If you do not have a barrel installed, DO NOT release the carrier using the bolt catch as it will damage the charging handle; instead, pull the charging handle to the rear and slowly guide the carrier home. At first the springs may feel stiff, but they will settle into their optimal performance after 50 rounds.

## Breaking down a Kentri equipped AR15

Since the Kentri omits the use of a standard buffer and recoil spring assembly retained by the buffer detent, you will need to remove the internal components to separate your upper from the lower, and/or remove the bolt carrier group and charging handle. All you need to do is remove the end cap and slide all of the internal components out through the open tube. Follow the installation instructions starting with “Internal component orientation” to reassemble your AR15.

**The installation video to accompany these instructions can be found on our website, [pantheonarms.com/videos](https://pantheonarms.com/videos)**

**If your Kentri is not functioning properly, please contact us via email at [sales@pantheonarms.com](mailto:sales@pantheonarms.com) to help you with a solution.**