

KNS Precision Inc.  
**Adjustable Gas Piston**  
for  
**AK-47 Family Firearms**  
Mod 3 Regulator Collar  
Installation & Operation  
User Manual

# Introduction

The new Mod 3 version of the KNS Adjustable Gas Piston for AK Pattern Firearms has been redesigned to improve operation in almost every way. The parts are now stronger, longer lasting, more heat-tolerant, have superior ergonomics, and the detent action that holds the regulator in position is more robust and consistent, even after fouling from high round counts. The new parts are also fully backward-compatible for use on your existing piston head.

Installation of the collar assembly onto the piston head is slightly more complicated than with the previous one-piece design, but can still be accomplished easily by following these simple instructions. We hope you enjoy the improvements offered by this new design, and welcome any questions, comments, or suggestions you have about the product.

**Thank you for your business!**

# Collar Replacement Procedure

## ENSURE FIREARM IS UNLOADED BEFORE PROCEEDING

### -Tools Required:

- Eye Protection
- Nail Setter Punch
- 3/32" Punch
- 16oz Hammer

-Step One: Ensure firearm is unloaded before proceeding, remove bolt carrier from firearm. Remove bolt head assembly from carrier

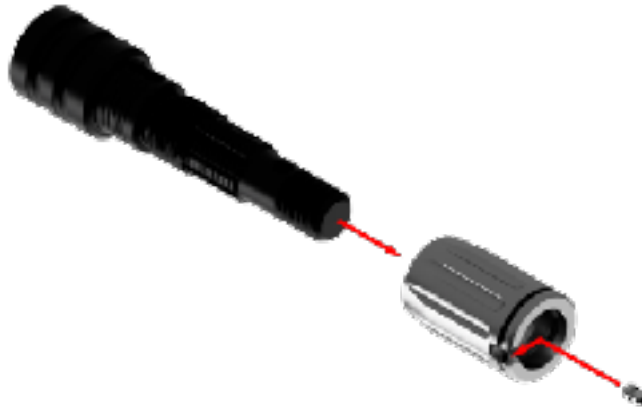
-Step Two: Secure the bolt head assembly in a vise or V-block, and use the nail setter punch and hammer to start driving out the spring pin that joins the piston head to the op-rod. Use the 3/32" punch to drive the pin out the rest of the way. The pin may be discarded.

-Step Three: Take note of the number of turns needed to unthread the piston head from the op-rod, so it can be later reinstalled to the same depth. If you have received a pre-assembled piston head assembly, skip to Step 7.

-Step Four: Unscrew the existing collar from the piston head and set aside. Remove the new collar parts from the bag, and check to make sure you have; one regulator collar with retaining ring already installed in the groove at its rear end, and one detent roller (the roller is about the size of a grain of rice, so be sure it is not hiding in the bag if you cannot find it right away, and be careful not to drop or lose it during assembly)

## Collar Replacement Procedure, Continued

### ENSURE FIREARM IS UNLOADED BEFORE PROCEEDING



-Step Five: Hold the collar such that the centerline is horizontal to the table, and the notch cut into its end is facing downward. Using fingertips or tweezers, lay the roller into the notch from inside the collar, so it rests on top of the retaining ring.

-Step Six: Carefully insert the tail of the piston head through the front end of the collar (opposite the notch & detent roller), making sure not to dislodge the roller. Once the piston head is slid in all the way, carefully begin turning only the piston head, making sure not to cross thread the parts. You should start feeling the detent action shortly after the parts begin to thread together. Once the detent action is established, you may thread the parts fully together by turning the piston head or the collar.

-Step Seven: Thread the piston head assembly back into the op-rod, as close to the same position as before, using the number of turns you recorded earlier as a guide. Align the spring pin holes by sliding the 3/32" punch through them.

-Step Eight: Secure the piston head assembly & op-rod in a vise or V-block, using the 3/32" punch to ensure the spring-pin holes are kept

aligned. Remove the punch, and use it to carefully drive the supplied spring-pin through the two parts. Make sure the pin does not protrude from either side before proceeding.

At this point the KNS Adjustable Gas System installation is complete, and the firearm may be reassembled and adjusted for desired operation.