



Firebird HEOS High Energy Operating System

NOTE: As in all cases when handling a firearm, make sure the firearm is unloaded and has no magazine or round in the chamber.

Please read the complete instructions before proceeding.

The High Energy Operating System is designed to facilitate the use of low-power/low re-coil 2 ¾" shells only.

You should NEVER under any circumstances fire high pressure 2 ¾" or 3" Magnum Shells with this system installed.

We recommend 3 dram 1 1/8 oz. shot shells and reduced recoil slugs and buckshot only.

Failure to comply with this restriction could result in damage to your firearm or personal injury.

These instructions explain the removal of the original gas system and the installation of the new gas system made by Firebird.

Contents: 1) Op-Rod, 1) Piston, 1) Seal Sleeve, 1) O-Ring

1. Start by removing and stripping the upper receiver. The guide rod is screwed into the receiver (right-hand thread). We recommend you clamp the guide rod in a padded vise and unscrew the receiver off the guide-rod. Some guide rods are set with Loctite so some heat from a propane torch may be required to loosen the thread.
2. With guide rod and handguard cup removed place High Energy Op-Rod in padded vise. Apply a small amount of Loctite to threads then screw the receiver back on to the guide rod. It should be snug but don't over-tighten.
3. Remove seal ring from your original piston and install it on the high energy piston.

4. Reassemble recoil spring, bolt/bolt carrier, piston, barrel and bypass piston into the upper in the same order they came off.
5. At this point, place the barrel in a vertical position then place the supplied O-ring on top of the bypass piston and carefully center it on the piston. This O-ring is a spacer to absorb dimensional variations within the original components of the gun.
6. Now gently slide the handguard down on to the barrel. The seal sleeve may now be placed over the guide rod and into the front of the handguard, it must pass through the O-Ring and seat up against the face of the handguard.
7. Now install the retention nut, screw it down against the face of the seal sleeve and the handguard. Then tighten the retention set screw.

Properly reassemble remaining components of the firearm according to the original instructions.

For more info go to our website www.firebirdprecision.com or You Tube for a video.

