

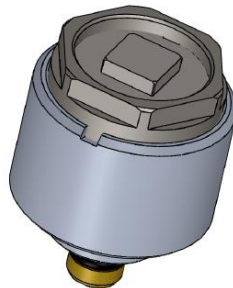
HUMA-AIR.COM

Market Leader In Accuracy

Welcome to Huma-Air. We design and manufacture brand- and model specific precision regulators for PCP air rifles.

By using only the highest quality materials such as aircraft grade aluminum, aluminum-bronze, chrome-moly steel and precision belleville springs, our ultra-compact regulators are high performing with less than 1% fluctuation.

Regulator installation Guideline Huma-Air Raptor Regulator for Edgun Leshiy



For adjustment tips, frequently asked questions and a complete list of installation manuals and instructions on how to adjust your Huma-Air regulator

<https://www.huma-air.com/Fitting-instructions>



Or go there directly by scanning the QR code

**Before you start, realize this:**

- Working on a high pressure rifle could potentially be harmful or lethal to you or bystanders if you do not know what you are doing.
- The pictures of the rifle parts in this guideline can be universal and meant as an example to explain the working principle. They might not be equal to the parts in your rifle.
- Do not attempt to install this regulator yourself if you do not have a clear understanding of how these pcp rifles and regulators work.
- Do not attempt to install this regulator if you are not skilled to work on an air rifle; contact your local gunsmith to do the fitting.
- Installation and operation is done completely at your own risk.
- Installing this regulator might void your rifle's factory warranty.
- Your rifle may never be filled higher in pressure as stated in your rifle's manual.
- Do not attempt to fit this regulator in another rifle as mentioned in our order conformation.
- These regulators are not suitable to use as a CO2 to HPA conversion, this could potentially be harmful or lethal to you or bystanders.
- We cannot be held liable for any accidents in relation to this regulator and its installation.

Before you start, make sure that the rifle is unloaded, remove the magazine and make absolutely sure ALL the air is drained from the pressure tube. If there is a pressure gauge, it will give you just an indication. Follow the manufactures instructions for depressurizing and double check to make sure all the air is out of the rifle

If the regulator is fitted and there is no output pressure after filling the pressure tube, something might be wrong causing the airflow to block totally.

Please beware even though there is no output pressure, the pressure tube is fully charged with high pressure air!!

If you are not able to relieve the pressure of the pressure tube according to the manufacture instructions or by dry firing the rifle then:



Contact a professional gunsmith to retrieve a solution!

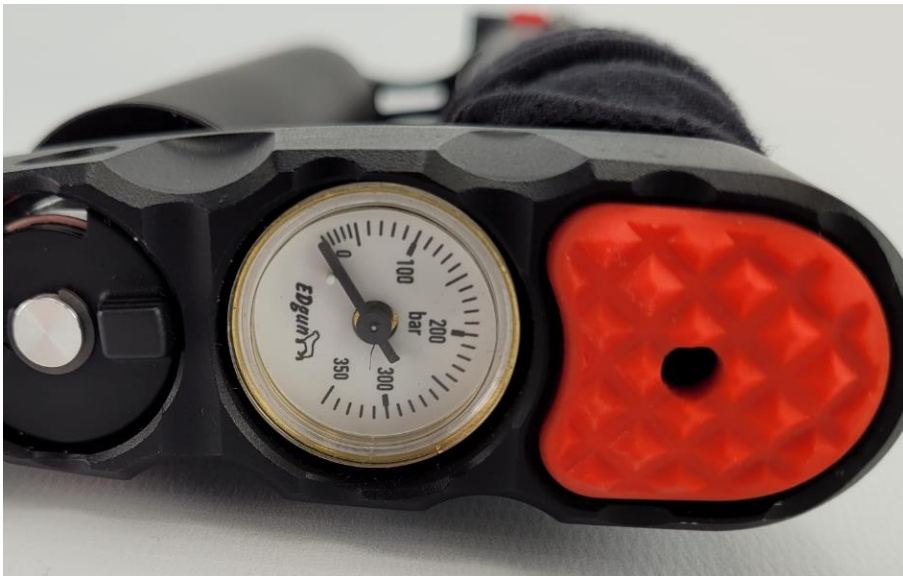
- **DO NOT try to unscrew or to open the pressure tube in any way.**
- **DO NOT try to pierce/drill or to use force to open the pressure tube or unscrew parts in an attempt to relieve the blocked pressure.**
- **These actions can cause serious injury or death to you or bystanders**

Please note that to be able to show better details the pictures are of the aluminium parts of the regulator in the white. Your parts will be anodise black.

Loosen the small grub screw (2,5mm) from the valveblock until you hear air escaping



Make sure that all air is drained by checking the gauge first and then try and dryfire the Leshiy 2 to make sure it is completely empty.



Once completely empty unscrew the plenum tube from the resevoir and valveblock so you have a compact item to work on



To prepare the EAR plenum body for it's new internals you need to remove all the old Edgun EAR regulator parts.

First remove the sinterfilter from the male threaded end of the plenum, then unscrew the adjustment screw using a set of circlip pliers.



Now you can remove the adjuster and the piston complete with the Belleville washers. After that you'll have access to the main body. Using the same circlip pliers you can unscrew that.



Once removed you'll see the sealing bushing and the ceramic ball underneath it.



To avoid damage to these delicate parts you can disassemble them as follows:

Inside the male part of the plenum you'll see the feedhole for the regulator



To this part place an air blower pistol used on your shop compressor and place a piece of tissue in the regulator orifice then cover it tightly with your hand. And then apply pressure.



You should head the part being dislodged from its seat. Remove the tissue and you'll find the white Delrin seat, a ball and a spring loose inside. We recommend placing them in a small Ziplock bag in case you want to use them in the future.



Now carefully clean the regulator orifice and lubricate it with some silicone grease

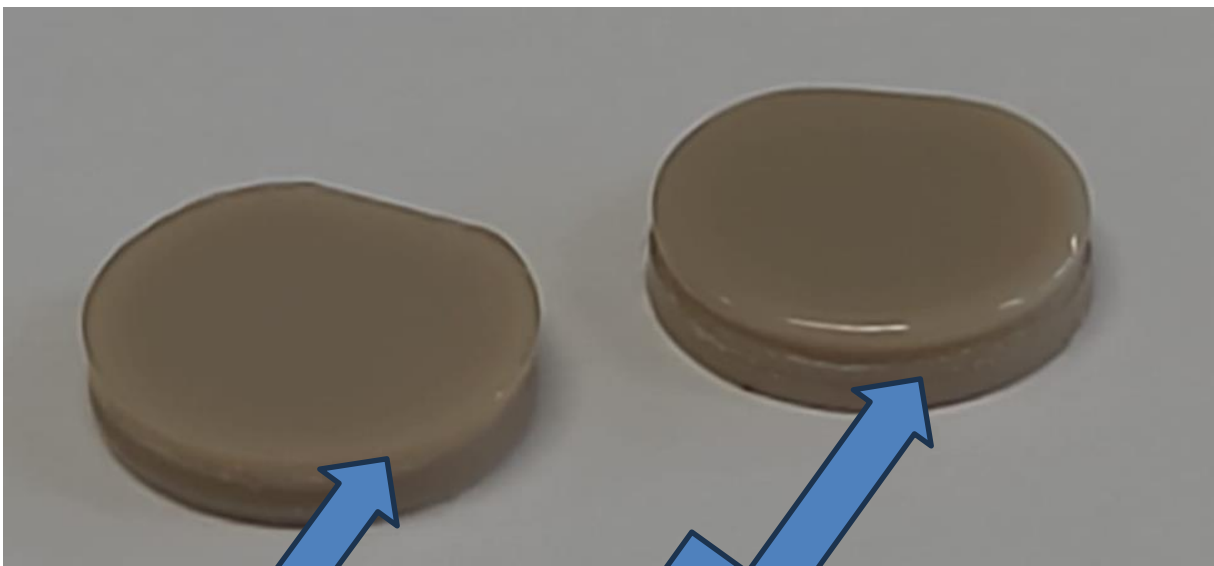


The replacement regulator comes partly assembled and consists of a small nozzle packed in a separate bag. The big lock nut keeping it in place with a piston subassembly screwn into said locknut and a separately packed tan valvediscs.



The discs has one sharp side and one side with rounded edges. The side with the rounded edges should face the nozzle and the side with the sharp edge should rest on the piston.

Left disc has the sharp edge facing upward, right disc has the rounded edge facing upward.



Side with sharp edge should face the piston

Side with rounded edge should face the nozzle

Unscrew the piston subassembly from the locknut so you can start assembling the parts together. They are temporarily assembled by us to protect them during transport. Most times the valvedisc will stick to the piston as can be seen in the picture. But if it falls off be sure to assemble it in the same orientatie as it was as delivered.



Now carefully lay the nozzle in it's seat. It will rest on the o-ring . Using your finger push it down until it is fully seated.



Now it's time to screw the locknut to secure the nozzle securely. Start using your fingers, Once you feel oring resistance switch over to a coin. €2 fits nicely. 10pence (GBP) or a Nickel, half a dollar or a dollar (USA) will also work well. Shipping cart coins will generally work well. The slot is 2.2mm wide.



Make sure the lock nut is fully seated. The larger diameter of the nozzle should be approximately flush with the bottom of the locknut



Insert the valvedisc in the bore or using a little silicone grease on the piston face “glue it on the piston” then you can commence to screw in the complete subassembly.



Screw in the subassembly until you feel the resistance. Don't overtighten as this is the valvedisc touching the nozzle.



Now reassemble the complete stock assembly of your Leshiy 2.



For setting up regpressure we recommend you mount a gauge in the Leshiy 2 gauge connection



Once fully assembled you can fill your reservoir. The regulator will most likely not pass air yet or only very low pressure. You will need to increase regulator pressure by turning the complete subassembly.

This can easily be done with the tip of a spanner wrench. Do NOT adjust the square connection!!



Notice how pressure changes, set it to your desired pressure. Now you can either leave the gauge in place or remove it for a cleaner look. Only thing to do now is go out shooting and enjoy your HuMa regulated Leshiy 2

