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 guide Artemis / Spa PP700

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 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 rifleparts in this manual are universal and mend 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 airrifle; 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. Dry fire the rifle or follow the manufactures instructions 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**

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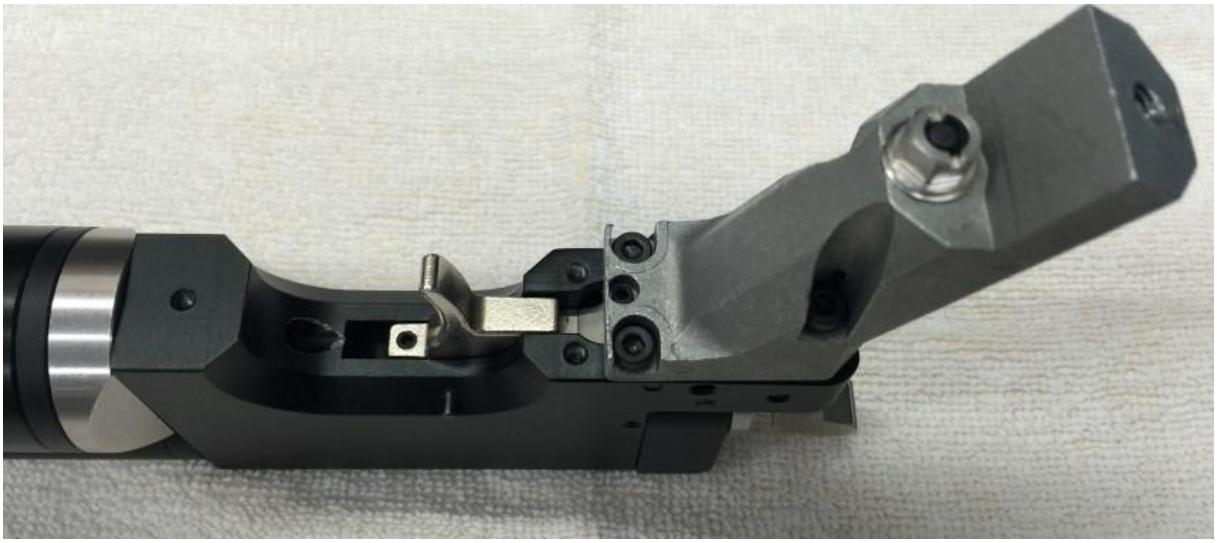
Please read our "General adjustment tips" and "How to adjust the regulator pressure properly" It will help you getting the best performance in the tuning process.

1. Make sure your pressure tube is totally empty

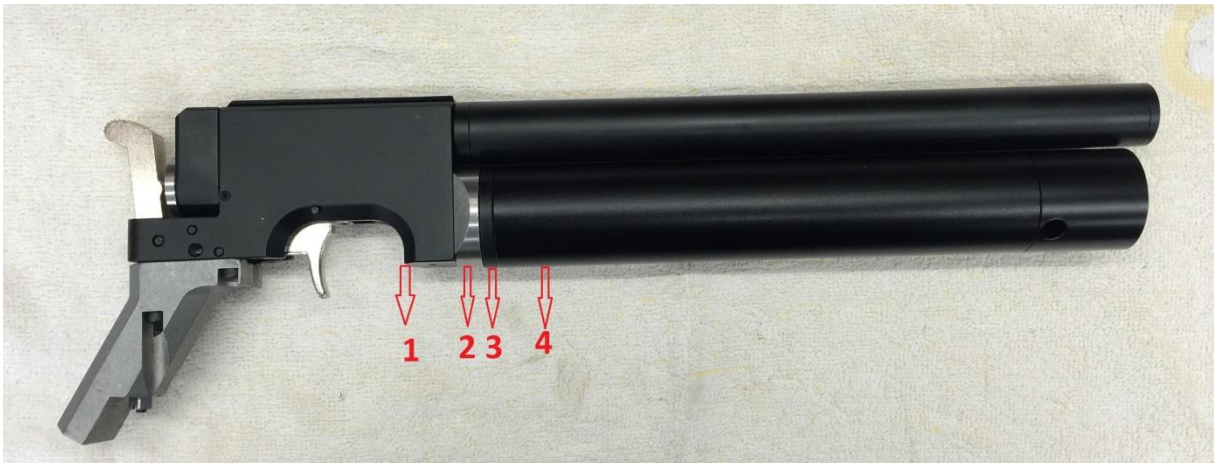
2.Remove the grip from the action.

The bold what gets visible on the end of the "grip part" is the hammer spring adjuster.



3. Now unscrew the pressure tube off the cylinder endcap and unscrew the factory regulator housing off the cylinder endcap. See the part numbers below and also see the total striped pistol picture.

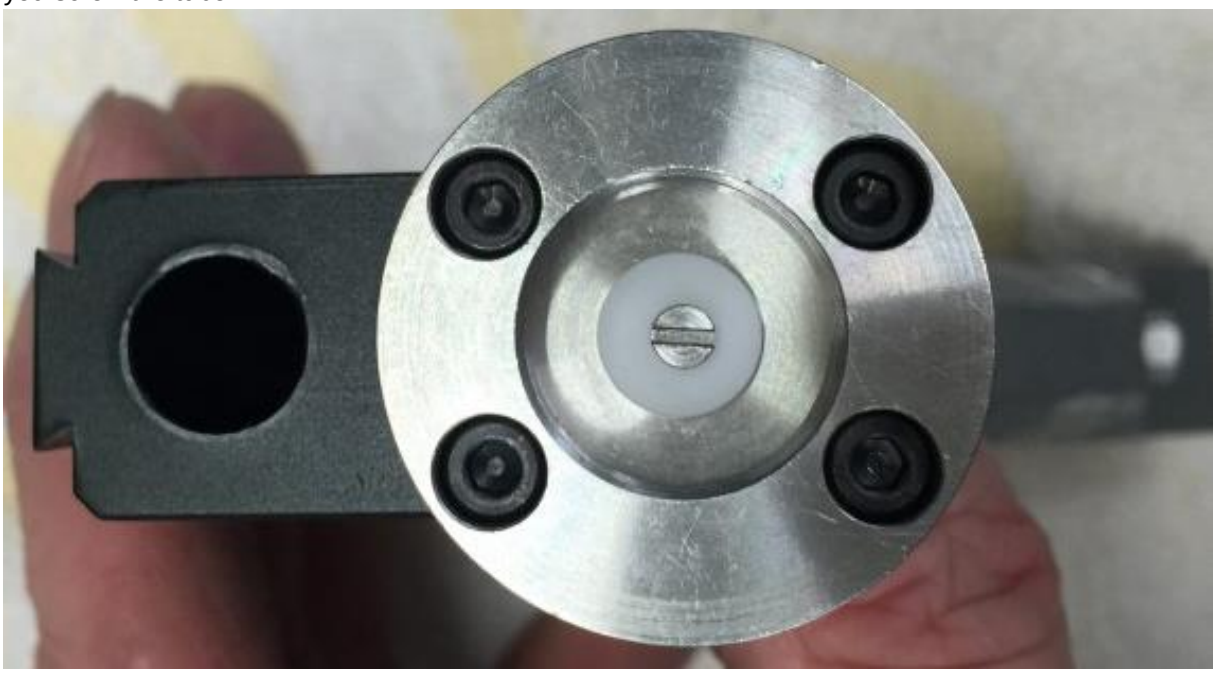
Part nr 1: Action
Part nr 2: Regulator housing (factory regulator)
Part nr 3: Cylinder endcap
Part nr 4: Pressure tube.

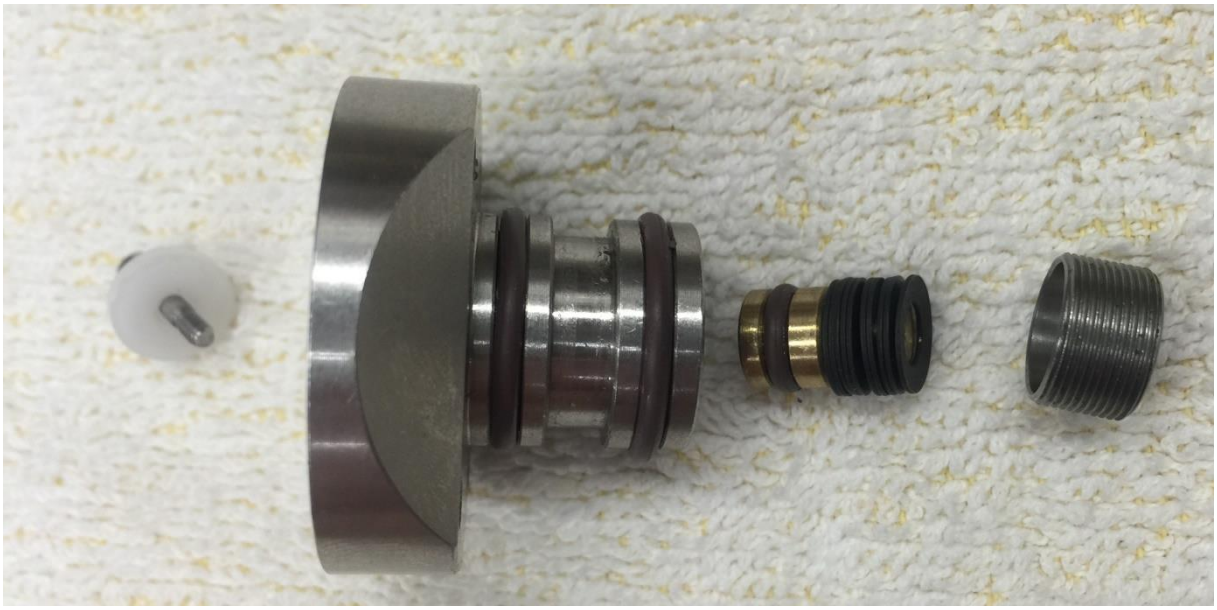


5. If you now look into the factory regulator housing you will see the white regulator valve disk and valve stem.
In order to get the Huma reg working properly the factory regulator needs to be bridged or the pressure has to be set higher compared to the pressure of the new regulator.

There are 2 options to do this:

Adjust the regulator pressure to max by adjusting the setscrew cup what is accessible from the trigger side
Or you can totally bridge it by removing the valvestem (of the original regulator. (When the valvestem turns around but won't come loose, you might need to unscrew the regulator house from the action and hold the regulator piston from the other side) Make sure the white disk in the right position when you screw the tube





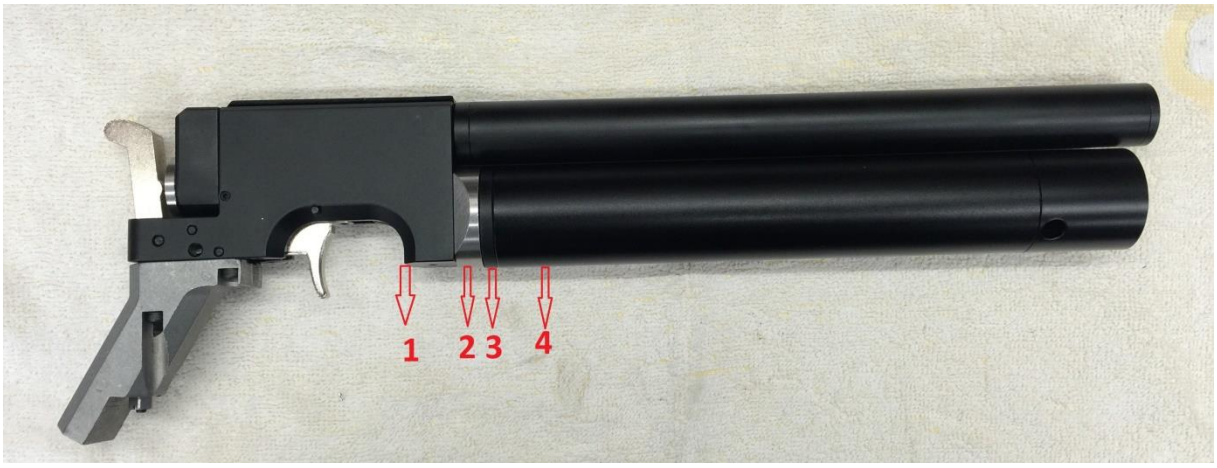
If you have unscrewed the factory regulator housing from the action, you can now place it back again en tighten it with the 4 bolts. Please place all original regulator parts back, except the valvestem what holds the white disk.

7. After you have bridged you factory regulator you can remove the big factory o-ring what is placed on the pressure tube endcap.

8. Now you can push the new regulator into the pressure tube. The scale label needs to be pointed towards the fill side of the pressure tube and the biggest diameter of the regulator will stand on the pressure tube's endcap. Because the o-ring of the endcap is removed, the regulator can "breath" by the treads of the tube.

Now screw the total pressure tube back together and screw it into the factory regulator housing.
Make sure the white disk of the factory regulator is in the correct place otherwise the tube won't seal.

Before you pressurize the tube again, please unscrew the pressure tube just about a ¼ to a half turn open, so there is a tiny gap (max 0,5 mm) between the pressure tube (part 4) and the pressure tube endcap (part 3)
Make sure the the factory regulator housing (Part 2) and tube endcap (Part 3) are tight together and there is only a tiny gap between the pressure tube and endcap!



9. Now you can carefully fill your pistol again. Only fill for about a few bars (30-40) and check if the airflow runs free when you do a blank test shot.
When everything is ok you can now fill your pistol and start testing and adjusting the get the best performance.

When you are testing/adjusting your rifle using a chronograph, please remember to take sufficient time between the shots for the regulator to recharge the regulated chamber volume.