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.

Weihrauch HW100 Tuning Regulator By Huma-Air

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

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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 manual are 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. 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**

Before you start, we would like to advice you to read our manual how to read and adjust the regulator pressure and our General Adjustment Tips to set up your rifle perfect.

Installing the HW100 regulator is a 2 part operation.
- installation of the regulator in the pressure tube
-Bridging the factory regulator because the Huma-air one will take over it's function

Installation of the regulator.

Remove the action from the stock.
Drain the pressure tube so the rifle is totally empty by, for example, dry fireing
After this unscrew the pressure tube from the action.

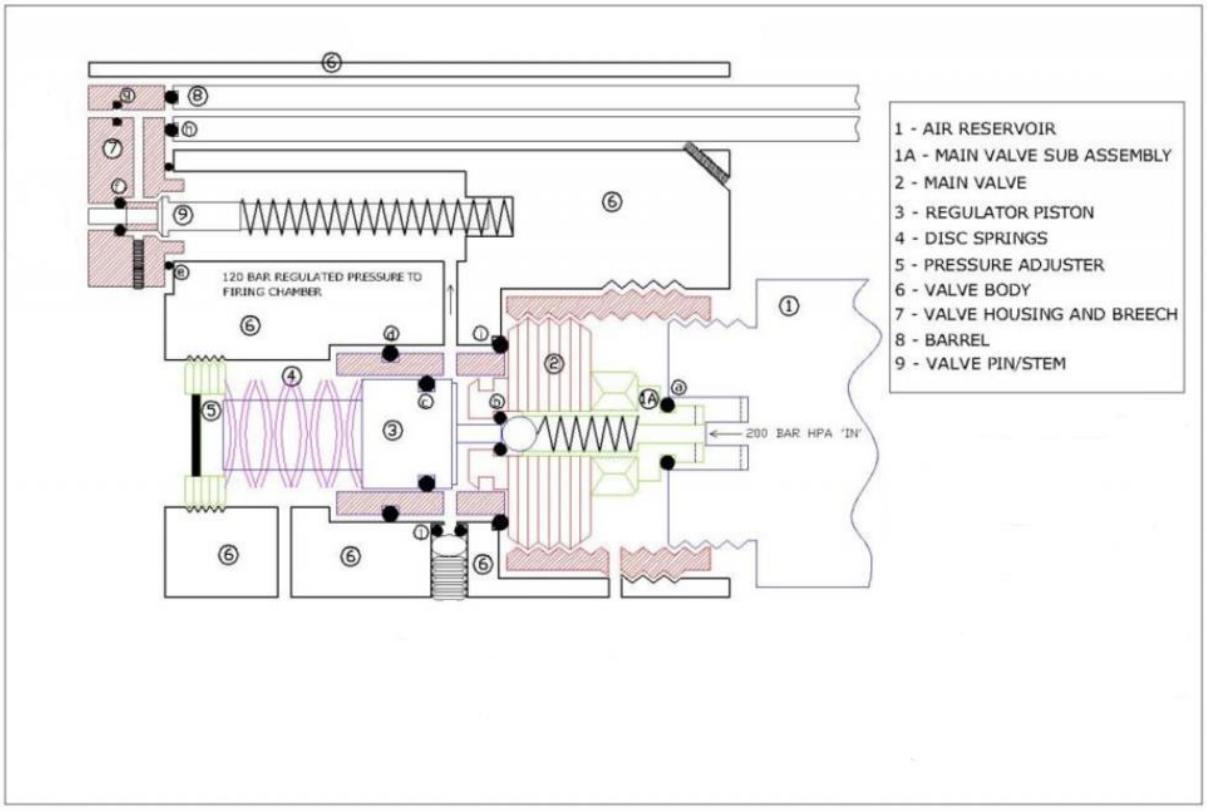
Then unscrew the endplug at the action side

Now remove the o-ring of this endplug , optionally you can file a small groove to the thread root (direction marked in red) and in the end of the tube for the regulator to breath. (not essential)

Now take your regulator and using a little silicone grease, grease your o-rings lightly. This will help in sliding in the regulator. Insert it so the face o-ring is facing the threads. So it will seal on the end plug.

After this you can screw the endcap back on and pressurize your cylinder to check for any possible leaks.

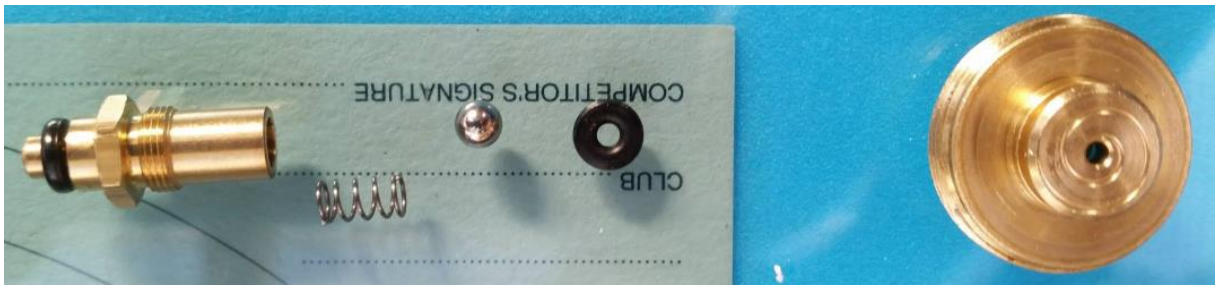
Now we need to bridge the factory regulator. Below you see the schematic representation of the regulator. The only thing we need to do is remove the spring powered steel ball and spring from part 1a.



With a fitting socket, unscrew part 1a, to gain access to the ball and spring. Below you see the main valve 2 with main valve subassembly 1a.

Alternatively you can unscrew the complete main valve subassembly, but this is not needed.

Once unscrewed you get access to the spring and ball.



Remove both but keep the o-ring as this is what seals part 1a to part 2.

Put everything back together and screw in your tube. Now you are ready to shoot.

(All pictures used in this manual can be found on the web)