

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 BSA Scorpion and Ultra SE models



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**

Remove the action out of the stock. In the red circle you see the part what we are going to exchange for the regulator.



Loosen both the breech screws a bit so there is a bit space between pressure tube and breech. This prevents scratches on the tube when turning it loose. (you may also remove breech totally)



Turn off the pressure tube, pressure gauge assembly and finally the last piece of the tube where the valve house is inside. You can leave the pressure gauge itself in the assembly!



When turned loose you can see the brass valve house



Unscrew the endcap of the valve house and take out the restrictor.
Remove the restrictor and screw the valvehouse back together



Replace the original BSA house for the regulator and screw it on the valve house.



Replace the the pressure gauge assembly, fixing bolt and pressure tube again. Be careful with the o-rings, use some silicon grease.

Now you can fill the rifle carefully and test it and fine tuning the power by following the rifle manufactures instructions

An indication how to adjust the pelletspeed.

If you follow these steps you will have pretty much a optimal balance between air-usage and shotcount.

Remember the regulator will determine the maximum pelletspeed.

- Fill the rifle with air, for testing, max. 180 bar.
- After every shot turn in hammerspring some more
- If pelletspeed keeps raising, more as preferred, lower reg pressure
- If you pelletspeed is too low, raise the reg pressure a bit
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You can in- or decrease it by setting the bronze screw inside the reg. A 15 minutes turn anti-clockwise will give 15 bar increase of pressure. Please handle with care, use very small steps, it's sensitive. NEVER make a full turn

Please read our [General Adjustment Tips](#) to set up your rifle perfect.