

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.

Huma-Air regulator installation guide BSA R12 CLX <12ft.lbs

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

**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**

Installation of a regulator to the R12 CLX can be done in two ways.

1. By just installing the regulator without removing restrictions in the action. This requires the removal of antitamper. But this is relatively easy.
2. Installation with removal of restrictions in the breech block. This will require the removal of the anti-tamper. Consider that after removal of the restrictions your gun can potentially exceed 12ft.lbs and for some countries could mean your exceeding the legal limit!

We'd like to point you to a disassembly video of Sub12 Airgunners. It is very informative

<https://www.youtube.com/watch?v=A4W1Y5Lnnz0>

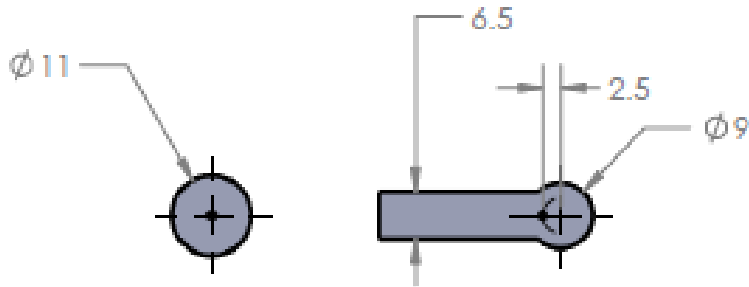
Let us cover the simple installation first

Remove the bottle from the rifle first. Drain the rifle by shooting it empty. Unfortunately it does not let you drain the air otherwise, and remove the action out of the stock.

The easiest way to remove the antitamper on the connectorblock is to drill the plugs. Front 2 you can get by with 3,5mm drill. The bigger one at the back needs about 4,5mm drilled. When you back out the screws the plugs will come out easily.



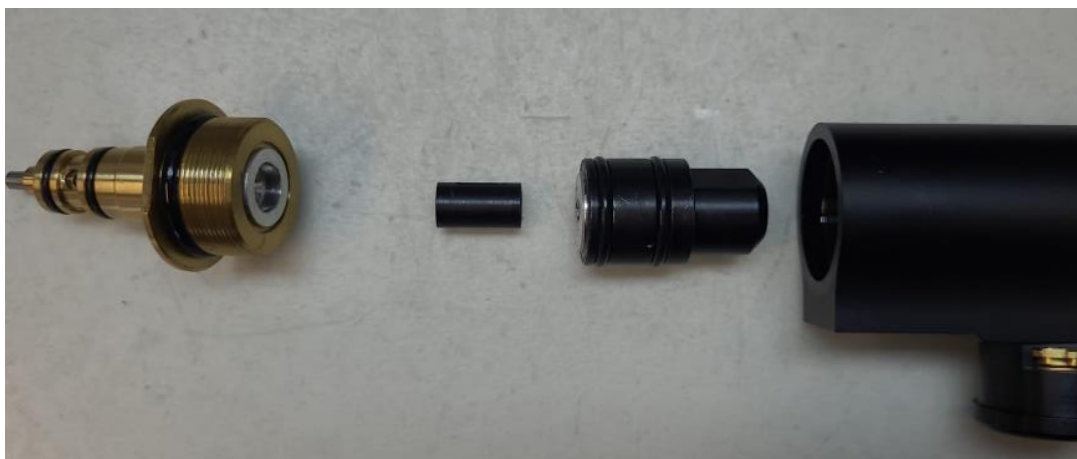
If you plan on doing any further tuning you will also need to remove the screw at the back in the trigger area. Now best to print the two figures below. Removing of this anti tamper on the back isn't strictly necessary but it will make handling the parts much easier. They are a centering help. If they do not print completely to size you can scale your print. In our printer settings with 100% scale they are as close as needed. Cut them out with a pair of scissors.



You can now unscrew the complete valve assembly from the breechblock using a 3mm hex. After this screw is loosened you the regulator housing/valve assembly will come right out!



Now remove the actual valve from the regulator housing using a spanner. To push out the regulator afterwards you can point the opening that shows the original regulator in a pile of towels to catch the reg and carefully screw on the bottle. This will push out the regulator. And the pile of towels avoids any damage. The parts layed down in order will look like this.



Now take our regulator and standoff. The original regulator is set to about 90 bar. If you are not planning on doing any alterations that will be the setting to use.



Now push in the regulator so the circlip points towards the valve.



Now place the standoff on the valvehousing and carefully screw everything back together



It is now a matter of assembling the rifle in reverse order. And your done.

Relating the 2nd method we would like to point you to the BSA Ultra CLX manual. The basic construction of these rifles is so similar that you can use the same principles.

<https://huma-air.com/app/uploads/2024/01/installation-guide-BSA-Ultra-CLX.pdf>

Enjoy your HuMa regulated rifle!