

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 Jkhan Noblesse



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 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**

Drain the pressure tube/air cylinder completely by dry firing. Check the pressure gauge to check if the rifle is completely de-pressurized before you continue.

Unscrew the silencer adapter, and fillvalve protection cap.



Unscrew the three allen bolts to remove the barrelband



Unscrew the pressure tube. When the tube won't turn loose easy, please check if there is no pressure left in the reservoir!



Remove the O-ring of the rifle's valve



Check the pressure tube if it is free from dirt and scratches where the regulator will come. Also check the pressure gauge adapter if it is clean.

Longitudinal scratches inside the pressure tube can cause the regulator o-ring to leak air. It is very important that the inside of the pressure tube is smooth. If not then please polished it.

Put a bit of silicone grease (nothing else!) inside the pressure gauge block and inside the pressure tube where the regulator will be fitted.

After that push the regulator into the gauge block. Make sure the tiny breath hole of the regulator is pointing upwards to the barrel.



Clean the treads of excessive grease and screw the pressure tube back on the gauge assembly. Leave a gap of about 0,5 mm open between tube and gauge assembly. This gap is needed for proper venting of the regulator.



Then re-assemble the barrelband, fillvalve protector and silencer adapter back on the rifle and you are finished.

You would probably need to readjust the hammer spring tension of the rifle for best results. We even got some feedback of people who shortened the hammerspring 1 or 2 windings.

If you notice power spikes every few shots it means that the regulator is not venting/breathing enough/properly. Check that the threads of the pressure tube and valve body are clean and free of grease, also make sure the valve block is not screwed too tightly into the air cylinder.

If this does not cure the problem then proceed to method 2 below.

Method 2

This method is more reliable than method 1 because it allows the regulator to vent/breathe better,

There are no adverse structural changes made to the air cylinder and the rifle can be put back to standard after this modification.

Depressurize the rifle and screw the the pressure tube fully into the valve block. Mark the bottom side of the air cylinder. Remove the valve body from the pressure tube,

Use a small metal file to make a tiny notch in the end/edge of the pressure tube. This does not have to be very big/deep, see pictures below. Just a very tiny notch.



file a small groove in the longitudinal direction of the screw-thread of the valve body. Use the corner of the file to cut a 45 degree/triangular groove in the threads, as shown below,

Note that the O ring groove does not get damaged by doing this modification.

The groove should be cut so that no threads are visible in the groove, this will allow the regulator to breath/vent freely. Below you see some example s of other types of valveblocks.



Fit the regulator and continue to put the rifle back together.

The only difference now is the valve body can be tightened up to the pressure tube completely,