

# HUMA-AIR

*Market Leader In Accuracy*

**Welcome to Huma-Air. We design and manufacture brand- and model specific precision regulators for PCP air rifles.**

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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.

## **Installation guide FX Impact M4 first stage tuning regulator**



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 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 used 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 pcpr 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 confirmation.
- 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 manufacturer's 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/bottle is fully charged with high pressure air!!**

**If you are not able to relieve the pressure of the pressure tube according to the manufacturer's 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 advise you to read our manual how to [read and adjust the regulator pressure](#) and our [General Adjustment Tips](#) to set up your rifle perfect.

**Before you start, read the full manual.**

**This manual is a guideline and can be different in detail compared to your rifle.**

**This manual contains pictures of the FX Impact M3.**

## **Important Safety Notes:**

- These regulators are not suitable for stand-alone pressure bottles/buddy bottles.
- The maximum working pressure of this model is 300 Bar.
- Do not exceed the factory advised fill pressure of your rifle!

## **Fitting of the pressure gauge and regulator**

The package consists of:

Stainless steel regulator body  
Blackened steel bottle adapter  
2 sizes of bonded seals  
300 bar pressure gauge

The regulator will extend the bottle forward approximately 23mm.

Before installation make sure that the bottle is removed and your rifle is completely empty!

After you have confirmed this you can start.

Your FX Impact M4 will be equipped with an extra pressure gauge to read the first stage pressure setting of your new first stage regulator.

Unscrew the blind cap using the correct allen key



The new pressure gauge needs to be mounted using just one bonded seal. The adjustment of the gauge is limited due to the thickness of the bonded seal used. To ensure that the pressure gauge is straight and can be mounted properly aligned we supply two different thicknesses of bonded seals.

If the pressure gauge is not aligned properly when using the thin bonded seal under the pressure gauge, replace it with the other supplied thicker bonded seal which will give you a little more flexibility for correct alignment.

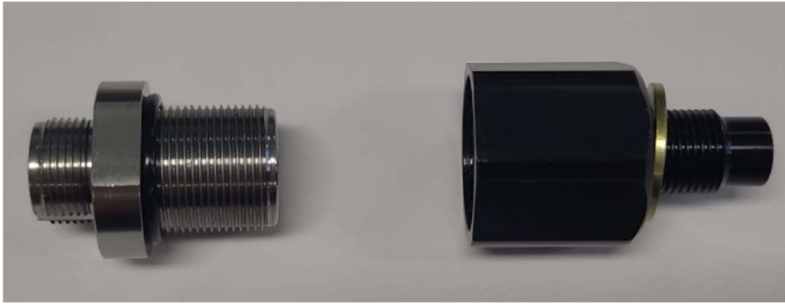
**Please note: never over tighten the pressure gauge! Use just a bit of force to align the gauge. Be aware that in some circumstances it may not always align perfectly regardless of the bonded seal you use.**



The new gauge will indicate the first stage regulator pressure.

The regulator parts are screwed together hand tight. For assembly best to separate the two.





### **Pressure setting of your new regulator**

The regulator is delivered in a range of approximately 110 to 210 bar output pressure.

The set pressure of the regulator is marked on the label of the bag.

Setting the pressure can be done by adjusting the bronze colored set screw that is visible after removing the black bottle adapter.



A 5 minutes turn counter clockwise will give a pressure increase of about 4-5 bar. Or ca 25-30 bar for  $\frac{1}{2}$  a turn

The pressure range of this regulator is between 110 and 210 bar. Use a small screwdriver that fits the internal (2<sup>nd</sup> screwdriver slot of the regulator adjustment screw)

Now start with removing the trigger guard to give you good access to the FX bottle adapter



Unscrew the the 4 M3 screws using a 2,5mm hex key.

Now that the triggerguard is removed and you have good access to the bottle adapter you can unscrew this using a good fitting wrench. Either fixed 23mm wrench or socket or an adjustable one.



The FX bottle adapter can be pretty tight and might require some force to remove. Take care not to scratch your gun during this procedure.

Once removed you can put it in a bag for safekeeping and possible later use



Check if all seals of the new regulator are in place and lubricate them with some silicone oil.

The side that mates to the rifle has two and the one onto which the bottle adapter is screwed on has one





Now you can screw in our regulator to the rifle action. After screwing it in by hand tighten it securely to the action using a 22mm or adjustable wrench.



Now screw on the black bottle adapter and tighten it with a 24mm wrench or the adjustable wrench



Reinstall your trigger guard and screw on the bottle.



For quick recovery and best functioning, we advice to use at least 30 to 40 bar pressure difference between the first- and second stage regulator setpoint.

Enjoy your Huma-Air regulated impact!