

# 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.

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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 with less than 1% fluctuation.

## Benjamin Bulldog quickfill with pressure gauge 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

**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 a regulator is fitted and there is no output pressure after filling the pressure tube through the quickfill, 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**

**IMPORTANT NOTE:**

**After you have installed quickfill in combination with a regulator, the factory fill connector or foster male coupler cannot be used anymore and will be replaced by the Huma-Air fill reservoir endcap with foster male fill connection.**

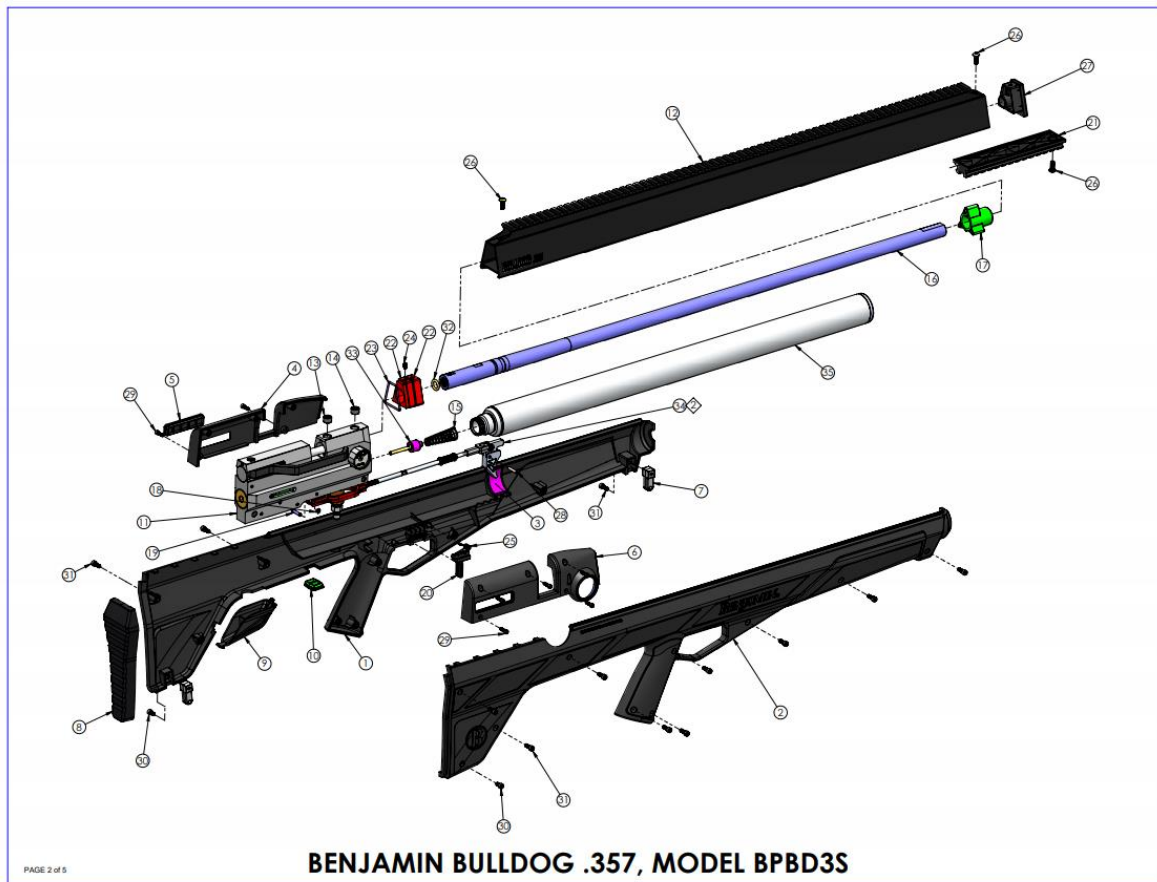
**Using the factory fill connection after the regulator is fitted can cause serious damage to the regulator or your rifle**

When also installing a regulator start with installing the 3x3 mm o-ring on the factory fill connector or foster male coupler to prevent accidental use of the factory fill connection, so you cannot accidentally connect your fillset to this fill connection anymore. The o-ring deliberately slides over the coupler with some difficulty this will ensure it will stay put!



The o-ring slides into the groove in the foster coupler!

Now we start with disassembly of the Bulldog



Installing the Benjamin Bulldog quickfillr is quite straightforward but there are some things you need to pay attention to while doing so. We have included the parts diagram to help indicate what parts need to be removed! A link to higher resolution diagram can be found [here](#)

([https://support.crosman.com/hc/en-us/article\\_attachments/203638306/BPBD3SRT\\_EVP.PDF](https://support.crosman.com/hc/en-us/article_attachments/203638306/BPBD3SRT_EVP.PDF))

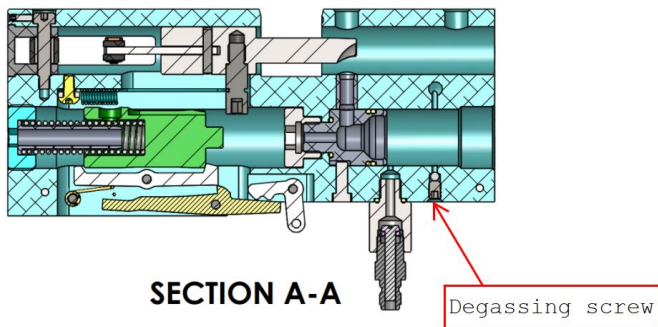
Check again that the rifle is unloaded and decocked!

Start by removing the plastic stock. This can be done by removing the screws 26, 29, 30 and 31  
Removing the cheekpiece 4 and 6 and sliding the shroud 12 forward removing the butpad 8.

The stock halves will then come loose. Take care with the trigger parts and make note of their arrangement.

You will now have access to the action for degassing.

You can double check that the rifle is empty by loosening the little grub screw that is on the underside of the action slightly. You will hear air escaping and you don't need to turn further than that! Wait till all air is drained! After the gun is depressurized, tighten the grubs crew again!



After depressurizing the rifle you can unscrew the air cylinder for easy action.



When unscrewing the cylinder from the action, most of the times the endplug will come out together with the cylinder.

The endplug on the other side of the tube must be unscrewed with a fitting adjustable face hole spanner. Needle nose pliers might work as well!



As supplied the silve coloured piece is screwed into the rest of the assembly. Unscrew it to assemble to the cylinder



Now install the new endplug piece of the quickfill connection into the front of the tube until fully seated. Use a bit of silicone grease on the o-ring! Handtight will be sufficient!



Now it's time to work on the stock. Carefully measure the position of the hole in the stock.

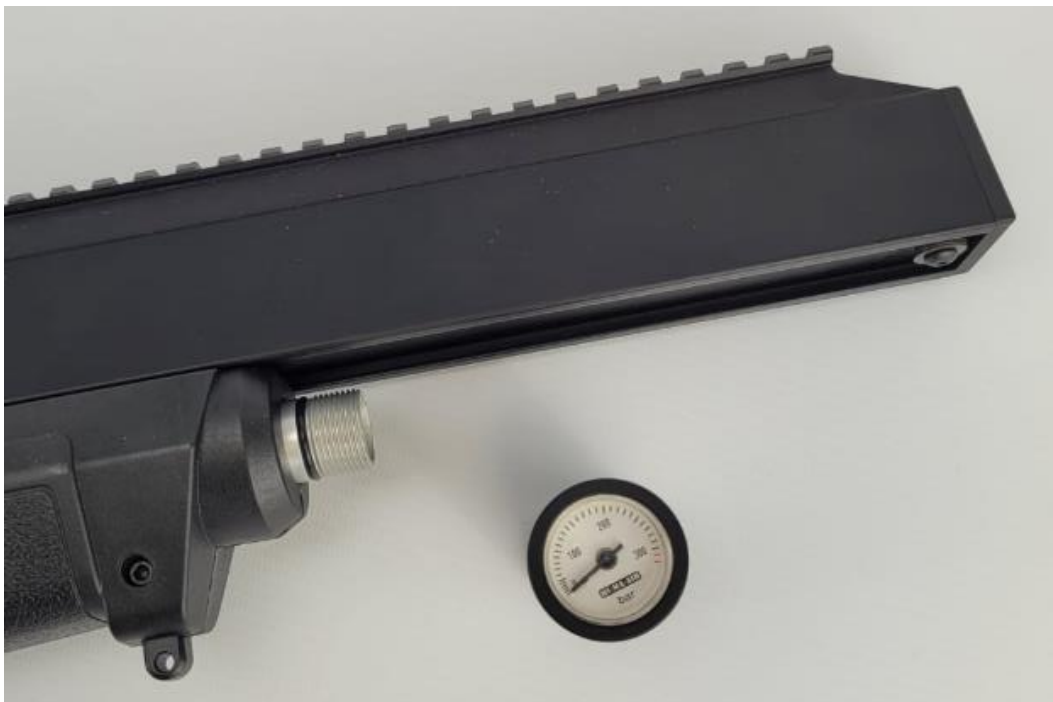
For drilling the stock secure both halves together with some tape.



Using a stepped drill is easiest for creating a fitting hole, but a Dremel can also be used. We drilled the hole to approximately 21mm so the endplug piece has ample room to stick out of the stock.



Now remove the tape debur with some steelwool and reassemble all parts back into the stock. It will look like this after you're done.



What rests is to screw on the rest of the quickfill assembly.



Align the pressure scale and the probe port so the gauge is easily readable and the probe is easily insertable.



Now it's time to fill your rifle and start shooting!