



-Hop-Up Rubber & Precision Barrel-

The hop-up rubber determined for the most part the accuracy and range of your replica. A good hop-up rubber can increase your range enormous. A precision barrel give you better accuracy and can give you a little FPS boost.

Let op!

- A hop-up Bucking and a hop-up Rubber are the same!
- There is NO different between a Tightbore barrel and a Precision barrel!
- A higher FPS doesn't mean that your range will increase! The hop-up rubber makes more of a difference!
- A longer inner barrel doesn't mean that your range will increase! The barrel and cylinder matched out of the factory. If this is altered the range and accuracy can **decrease!** Always make sure the volume of your cylinder is matched with the barrel!
- If the Hop-up rubber has grease on the inside of the rubber it will affect the hop-up negatively.
- Hop-up rubbers are for almost all AEGs universal. GBB (Gas Blow Back) Pistols, Rifles and Sniper Rifle Replicas have other hop-up rubbers!
- Barrels are for almost all AEGs universal. GBB Pistols, Rifles and Sniper Rifle Replicas can have special barrels!
- Rubbers can be damaged by using petroleum based oil! Always make sure to use silicone spray that doesn't affect O-rings or rubbers!



How To:

This is a basic guide for installing a barrel and hop-up rubber. for this guide we used a standard M4 hop-up unit, but this guide can also be used for different hop-up units! Sniper and GBB hop-up units can be different!

Parts needed:

- Cleaning/jamming rod
- Siliconenspray
- Teflon Tape
- Water with soap



1: Remove the hop-up units and barrel from the replica. Carefully disassemble the hop-up unit.

Please note! The fishbone/hop-up nub is A small rubber cylinder, This piece make sure that the hop-up rubber is pressed in the barrel. This is easily lost!

Tip: If you lose the fishbone/hop-up nub, It can be make from wire isolation!



2: Pull the barrel and hop-up rubber out of the hop-up unit. If the hop-up rubber is stuck in the hop-up unit, then turn the barrel gently back and forth while pulling it out. After that you can remove the hop-up rubber and stabilizer ring from the barrel.

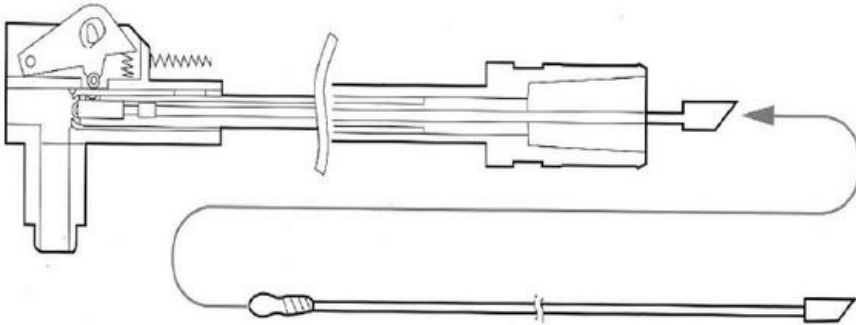
Tip: A little bit of siliconenspray on the outside of the hop-up rubber helps with removing it!



3: Clean the new (or old) barrel, with a degreaser or water with soap. Afterwards clean it with the cleaning/jamming rod and a piece of cotton.

Please make sure that after cleaning the barrel is dry! Do NOT use any kind of lubricate in the barrel!

Tip: You can also use water and soap to clean the hop-up rubber! Useally there is some oil residue on the rubber from the factory.



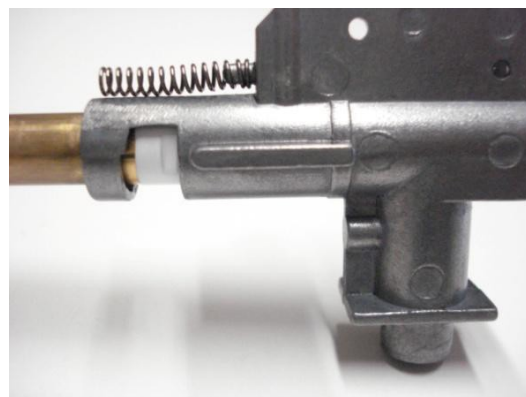
4: Install the hop-up rubber again on the barrel. Make sure that the slot in the barrel and the rim on the hop-up rubber are inline. Make sure that the hop-up rubber isn't fold, cracked or crooked.

Tip: For a better airseal wrap a layer teflon tape over the barrel and over the hop-up rubber (after installed)!
Do NOT use to much!



5: Use a silicone spray to oil the hop-up rubber a little bit from the outside and slide the barrel and hop-up rubber in the hop-up unit. When it isn't going in easy gently turn the barrel back and forth **BE CAREFULL!** Make sure that the barrel is straight in the hop-up unit!(The slot on the barrel is the bottom)

Make sure that the hop-up rubber isn't jamming, folding or getting stuck! This can damage the hop-up rubber!



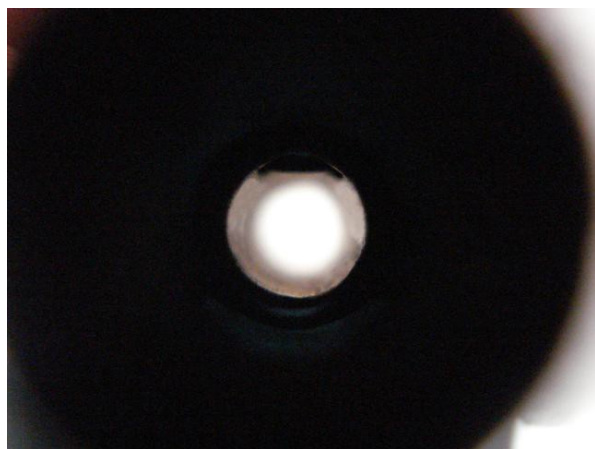
6: Check if everything is installed correctly. The hop-up rubber must be round when you look in at the end of the barrel.

When you look in the barrel you will see a bulge. This bulge need to be in the middle of the op-up unit and barrel.

If the bulge isn't in the middle then repeat step 5.

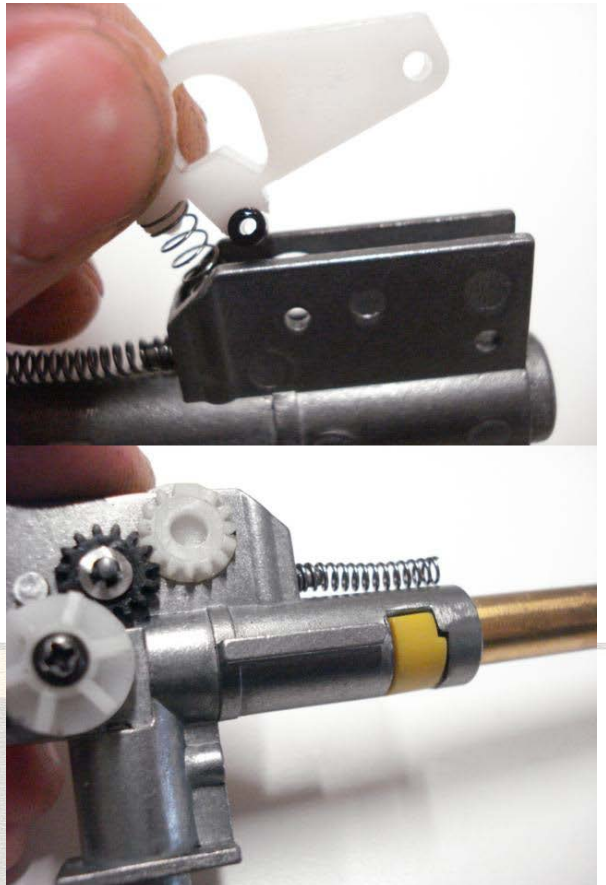
If the hop-up unit is installed correctly then install the stabilizer ring and then the C clip.

Tip: Hold the barrel up to the light, so you can see easily in the barrel and check if everything is correctly installed!



Z: Assemble the hop-up unit. Do not forget the **fishbone/hop-up nub!**

Test afterward the function of the hop-up unit, By looking in the barrel while turning the hop-up wheel. The bulge in the barrel should be adjustable in height (If installed correctly). When everything is checked and is installed correctly install the hop-up unit and barrel assembly back and adjust you hop-up on your preference bb's.



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