



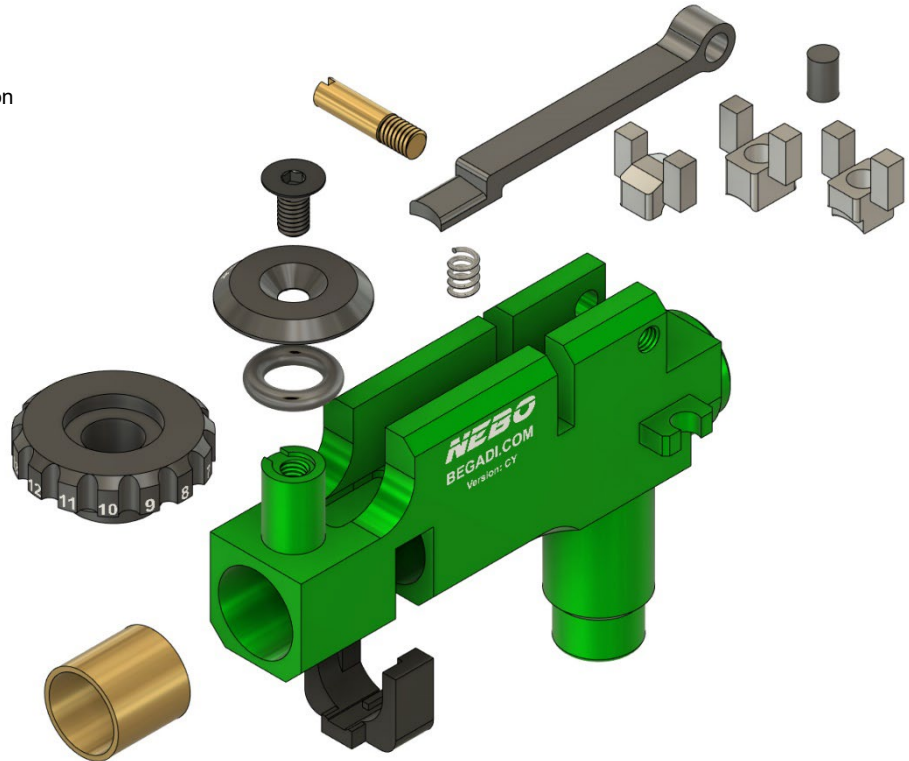
## **Begadi PRO NEBO AK HopUp Unit (CY Version)**

Compatible with: Begadi Sport, CYMA, ARCTURUS, LCT, LONEX

This HopUp Unit is a CNC manufactured rotary for AKs from Cyma (Begadi Sport), Arcturus, LCT and LONEX. The newly developed system makes it possible to set the hop-up effect much more precisely. In connection with a Begadi PRO HopUp rubber leads to more range and a smaller spreading circle. The inner diameter is exactly right for our HopUp rubbers in order to be able to guarantee a constant energy release.

### **Included Parts:**

- 1x CNC HopUp Unit from 7075 Aluminium
- 1x Dial made of 7075 aluminium with position indication
- 1x Cover plate for dial
- 1x Countersunk screw for dial
- 2x C-Clip for AEG and Hybrid barrels
- 1x HopUp Arm (lever) on 7075 aluminium
- 2x Compression spring for HopUp arm
- 1x Brass screw for HopUp arm
- 1x Brass ring for centering the barrel
- 2x O-ring for dial
- 1x Tensioner for 5mm HopUp systems
- 1x Tensioner for 7mm HopUp systems
- 1x Adapter for rubber Tensioner
- 2x Buckings for Tensioner – Hard (Red)
- 2x Buckings for Tensioner – Soft (Black)



### **Compatible Nozzle:**

- The HopUp Unit can be used with most standard AK Nozzles with **19.70mm**.
- The maximum possible length is **20.00mm**.
- If you want to use a high-quality nozzle, we recommend the **Begadi PRO Nozzles made from Aluminium with 2 O-Rings**.



### **Manufacturing and Tolerances:**

- The components of this hop-up unit are completely CNC-manufactured, this also applies to the enclosed C-clips.
- The tolerances are  $\pm 0.05\text{mm}$  and are automatically checked by a laser after production.
- Parts that do not fit are sorted out directly and do not find their way into the packaging.
- This HopUp Unit was designed in Germany, the design and function is protected.
- If you have any further questions or need help, our support team will be happy to assist you via [support@begadi.com](mailto:support@begadi.com).

**Installation on Cyma AK:****(1):**

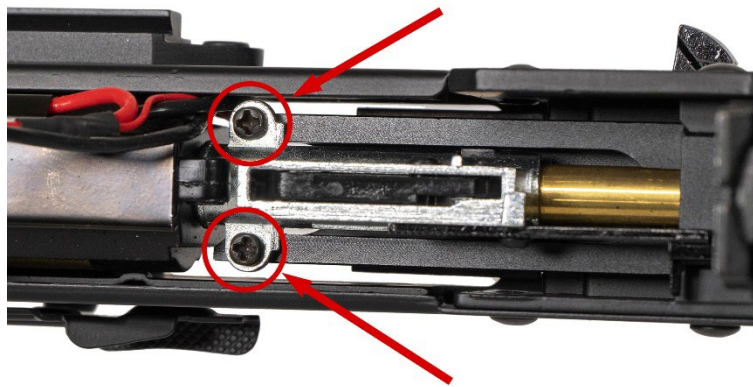
Remove the upper case and remove the spring along with the guide rod.

Now pull the component completely backwards with the charging handle in order to be able to remove it upwards.

**(2):**

You can now detach the original HopUp Unit from the Outer Barrel by removing the two side screws.

The lower stop for the magazine can now also be unscrewed, this **differs depending on the manufacturer!**

**(3):**

In the next step, the upper and lower handguard must be removed. If you have a model with a cleaning rod under the barrel, this must also be removed by unscrewing the flash hider.

To remove the upper handguard, turn the marked lever up. If you have a 74 UN as an example, only the housing cover has to be opened. The handguard can now be removed upwards.



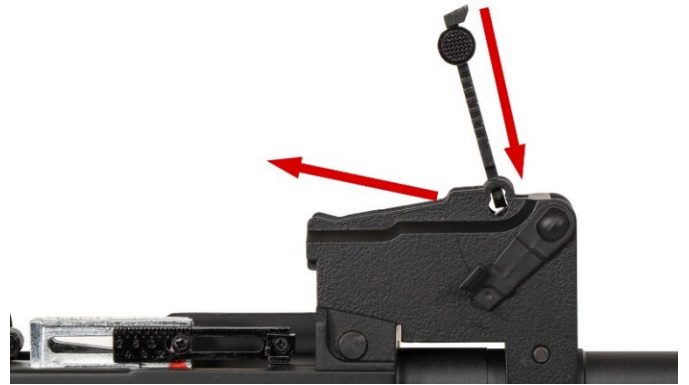
In order to release the lower handguard, the internal lever must be turned. Now push the handguard forward and then lower it down.



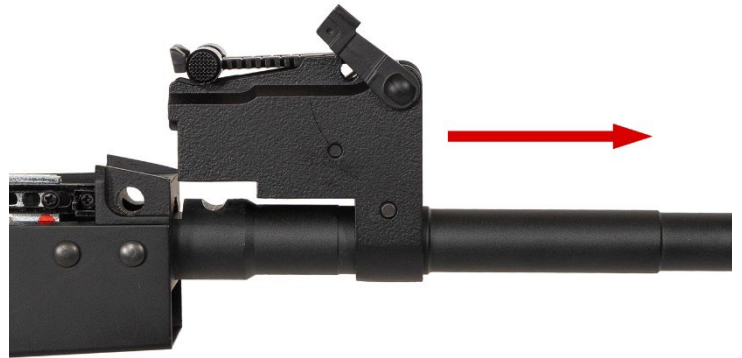


(4):

Remove the outer barrel and rear sight (if necessary). In order to be able to separate the outer barrel from the housing, the internal set screw must be released. This is not easily possible with all AK variants. If you are unable to reach this screw, removing the rear sight will help. To do this, proceed as follows: Fold the rear sight up as shown in the picture and now press it down against the spring steel with force. Now this can be removed to the rear and the passage to the set screw is open.

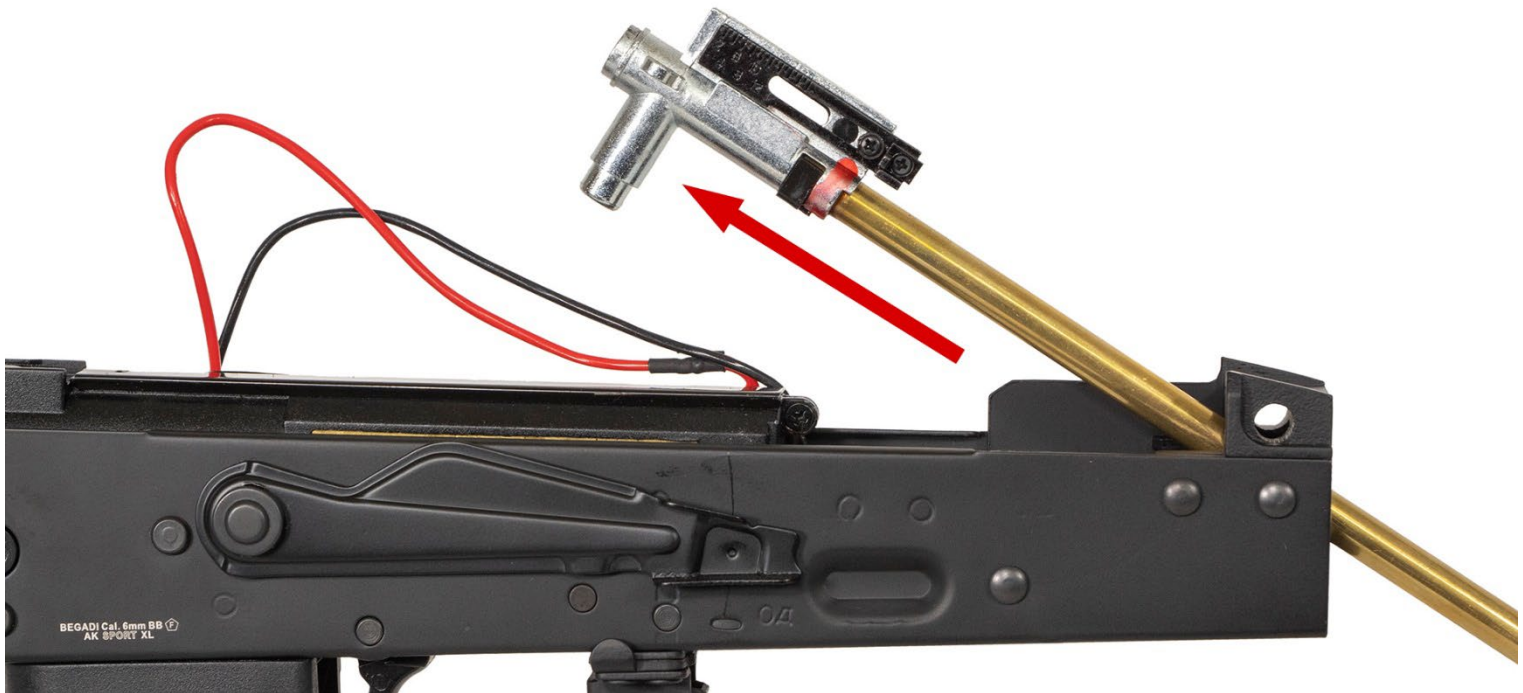


If you have loosened the marked screw, the outer is only held by the lateral bolts. Tap it out and pull the outer barrel forward out of the case. **Attention: Not every manufacturer uses a bolt here!** If this is not the case with your weapon, the outer barrel is only held in place by the inner screws.

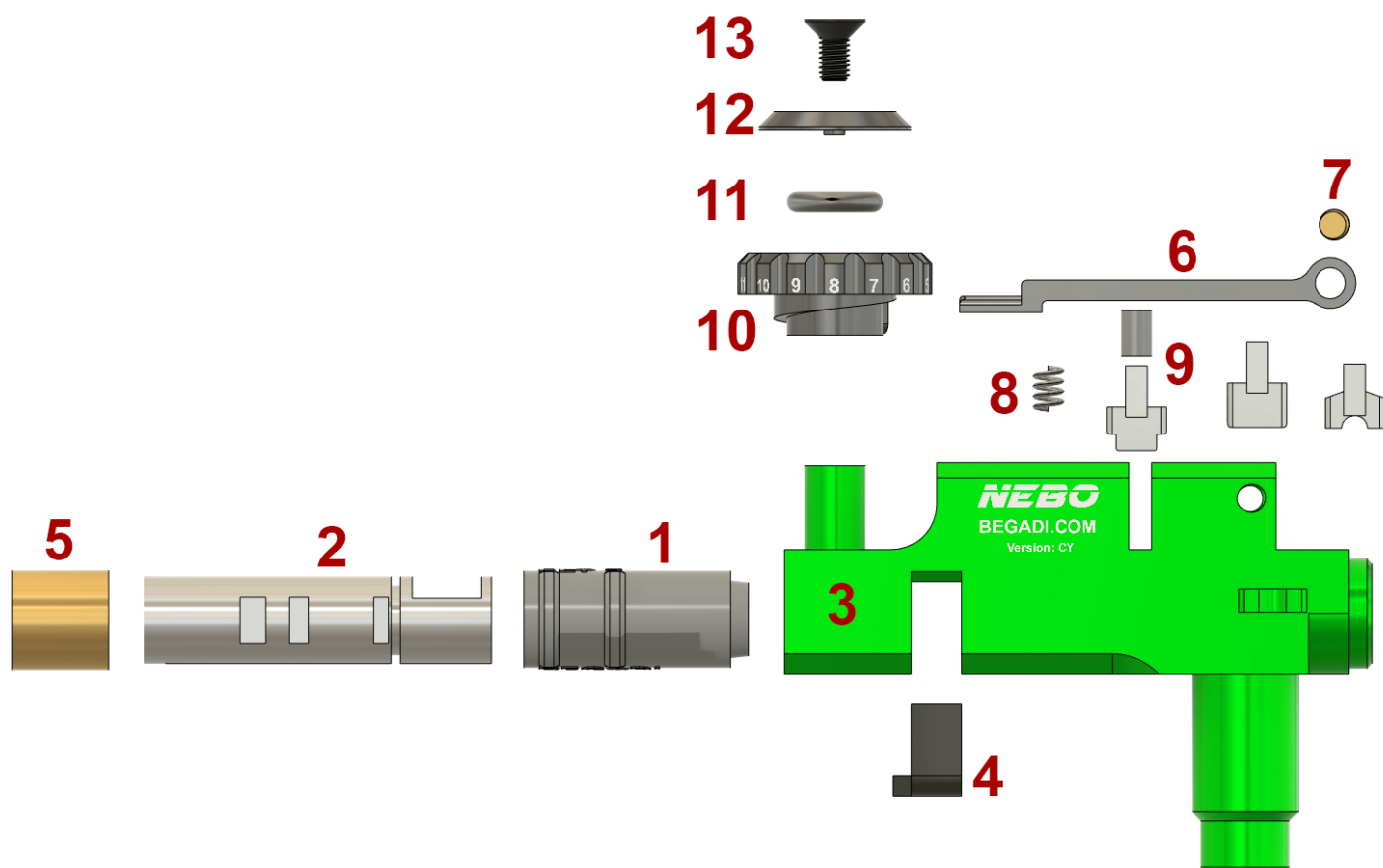


(5):

The original HopUp Unit together with the inner barrel can now be removed from the housing at an angle and dismantled.



If you want to keep the original inner barrel, remove the front plastic clip downwards. The barrel can now be pulled out of the unit.



#### Now it is time to configure your new HopUp Unit.

- If you would like to replace the hop-up rubber (bucking) (1), install it on the barrel (2) or keep the one that is already installed.
- Now slide the barrel (2) with the rubber (1) installed from the front into the HopUp Unit (3), be careful not to twist the barrel with the rubber, otherwise your BBs will twist to the left or right. At this point, some silicone grease can be applied to the rubber to ease assembly.
- If the barrel is properly installed, it is secured with one of the two clips (4). This step must also be done with precision, otherwise the clip will not snap into the barrel. Push the barrel back a little until you hear a click.
- Next, slide the brass ring (5) over the barrel from the front until it is fully seated in the unit.

- Now choose one of the enclosed aluminum tensioners (9), which is suitable for your hop-up rubber and preferred ball weight. The scope of delivery includes a 7mm version, which is only compatible with 7mm tuning barrels, a 5mm version, which is used with all regular HopUp

Rubbers and barrels used. Or the third version, which can be combined with a rubber tensioner (3mm diameter).

- Once you have made your selection, **use one of the 4 rubber bands supplied** and install it in the bore of the tensioner. We deliver here 2x black (soft version) and 2x red (hard version). We always recommend installing the soft version first. The red is harder and is only suitable for very heavy BBs, otherwise the BBs tend to over-hop. Once the rubber is installed, the tensioner can be inserted into the unit.

- In the next step, the HopUp Arm (6) is installed together with one of the enclosed springs (8). Place the spring in the hole provided and fix it with a drop of grease if necessary. Now put the HopUp Arm into the unit from above. Now fix the arm with the enclosed brass screw (7), which is inserted from the right.

- If the hop-up arm is installed together with the spring, the adjustment wheel (10) can be placed on the guide. We recommend applying some silicone grease to the guide. Now use one of the enclosed O-rings (11) and also moisten it with a little silicone grease. This can now be inserted into the dial from above.

- To fix the wheel, use the cover (12) together with the screw (13). It is essential to ensure that the tongue and groove system of the cover is correctly aligned. Otherwise, it will rotate together with the dial and loosen the screw.

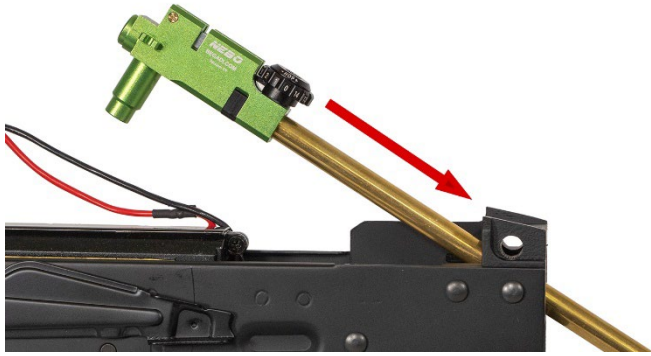




Once you have assembled the HopUp Unit together with the Inner Barrel, the installation can take place:

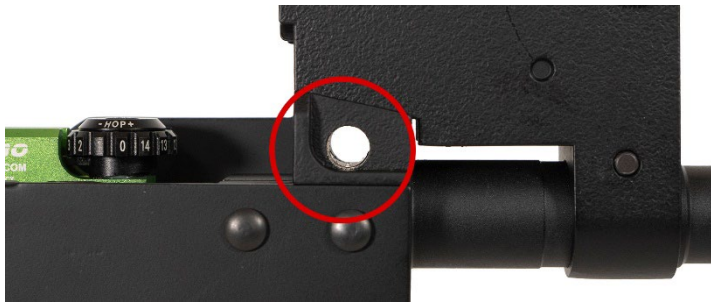
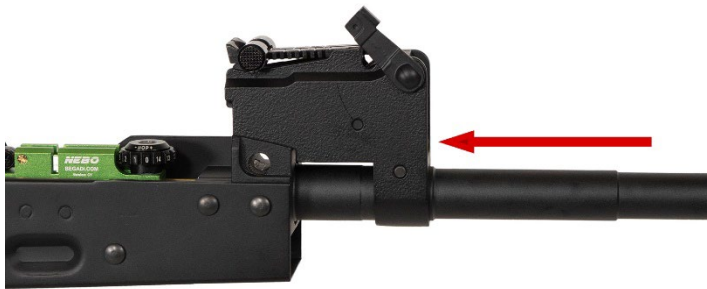
(1)

Install the new system in the case and slide the HopUp Unit over the Nozzle



(2)

The outer barrel can now be installed again from the front, align it straight and push it completely into the housing. Make sure the holes in the HopUp Unit line up with those in the Outer Barrel. If the outer is correctly aligned, the bolt can be inserted and the internal set screw can be fixed.



(3)

The hop-up unit can now be screwed to the outer barrel, the stop for the magazine is also screwed from below.





(4)

First attach the lower one and then the upper one handguard. Secure both parts with the levers provided.

If your version has a cleaning rod, it can inserted and fixed.



(5):

Insert the component with the clamping lever into the housing from behind and push it completely forward. In the last step, the spring is mounted together with the rod and the housing is closed.



Your new HopUp system is now successfully installed. You can now increase or decrease the hop-up effect using the adjustment wheel. If a new HopUp rubber was installed, it should be shot in with 200 - 300 shots.

