



COMRADEQUICHE AIRSOFT

Instructions for installing the “Variable Nozzle Mod” Kit
for the GHK AK series GBBR.

WARNING!!!

**This guide shows how to PERMANENTLY modify your replica!
We are not responsible for the modifications you make!!!**



Included with this kit:

- M4 - 0.7 x 6mm set screw
- M4 - 0.7 x 8mm set screw
- 3.5mm drill bit
- 2-part epoxy
- 3D printed "Set Screw Washer"
- 3D printed "Drill Bit Helper"
- Allen key

Additional tools needed, (In addition to a GHK AK nozzle):

- Sharp razor/ exacto
- Epoxy mixing stick (Chopsticks work well)
- Sand paper
- Work surface

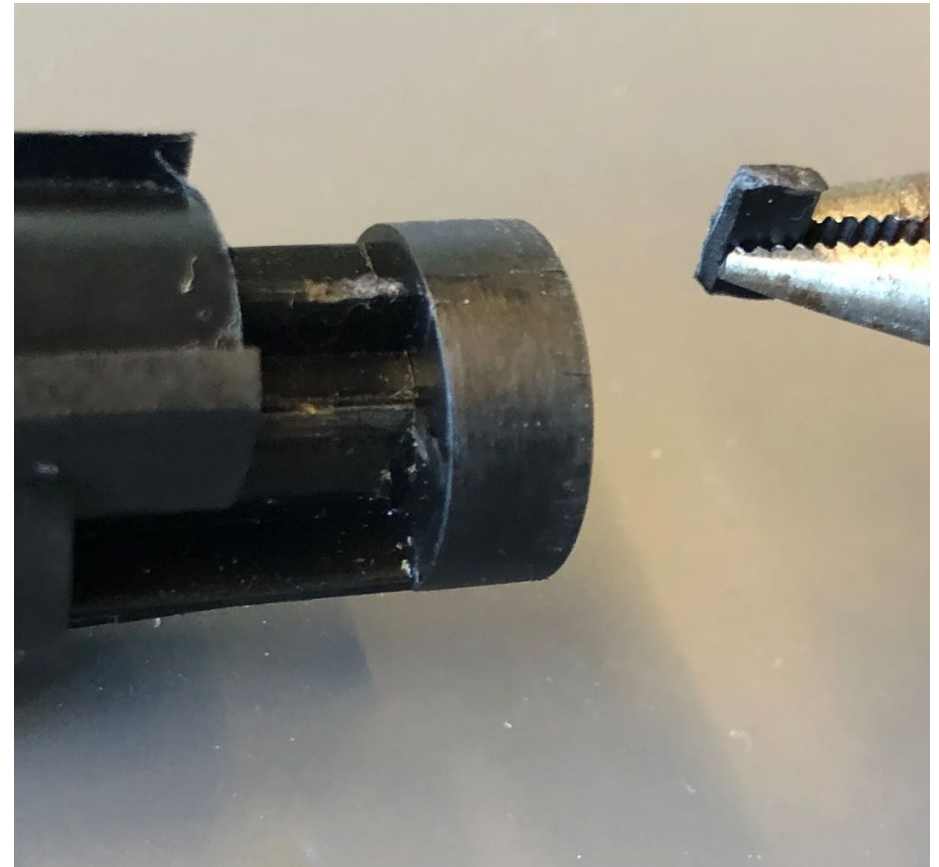


1.

Use a sharp exacto or razor blade to gently score at the rib shown above.

Note that this rib is found on the side of the nozzle which faces the ejection port.

By modifying this area of the nozzle specifically, you will be able to adjust the gas flow without removing the dust cover.

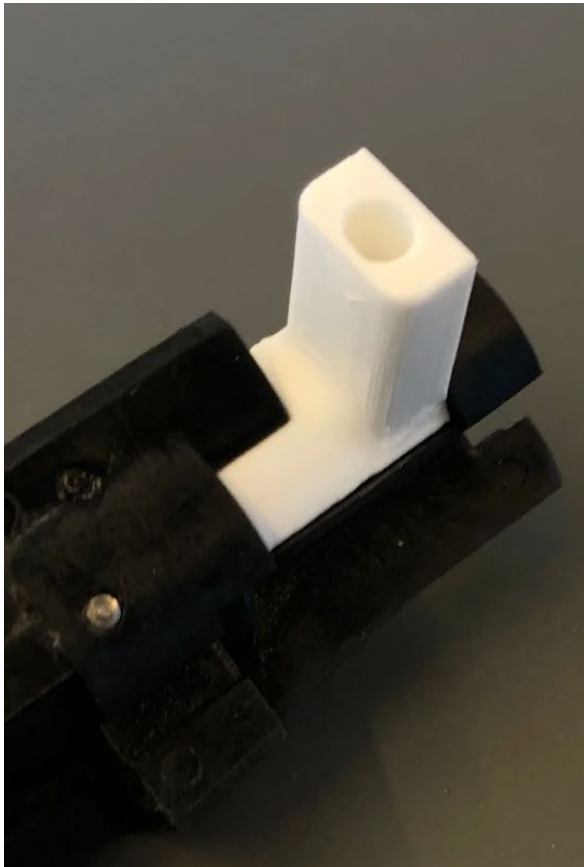


2.

Scoring the edges of the rib will allow you to cleanly snap it off with a pair of pliers.

Once the rib has been removed, clean up any remaining plastic left behind. I find pulling the edge of the blade across the plastic helps to smooth & shave.

Using sand paper, gently sand the area to roughen the surface only slightly. This will give the epoxy in the next step more texture to grip on to.



1.

Do NOT use glue at this stage. This component is only used temporarily!

Insert the 3D printed "Drill Bit Helper" into the newly prepared spot.

It should sit flush against the smoothed down surface.

(Drill Bit Helper shown in white for visibility)



2.

Using the provided 3.5mm Bit, drill into the "Drill Bit Helper" and then into the nozzle itself.

Be sure to **STOP drilling** as soon as you can see the bit by looking into the nozzle!!

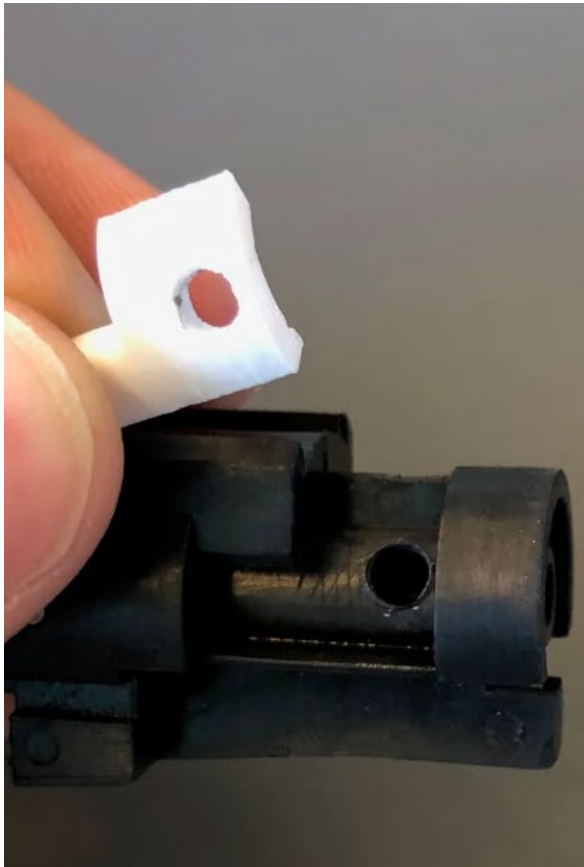
The Helper is meant to ensure your drill bit enters the nozzle at the proper position and angle.



3.

Once the hole has been drilled, you may dispose of the "Drill Bit Helper". It will no longer be used.

Ensure that no shavings from the nozzle have fallen inside! Clean up the edges of the hole if needed with a razor.

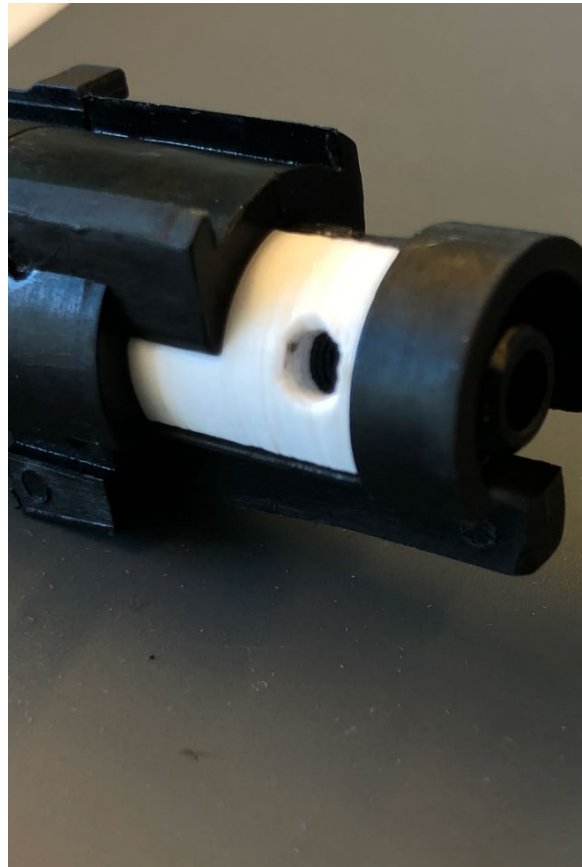


1.

Take the “Set Screw Washer” and ensure it fits snugly into place against the nozzle. Also double check that the hole in the washer is centered to the hole in the nozzle.

Remove the washer and set aside.

(Set Screw Washer shown in white for visibility)



2.

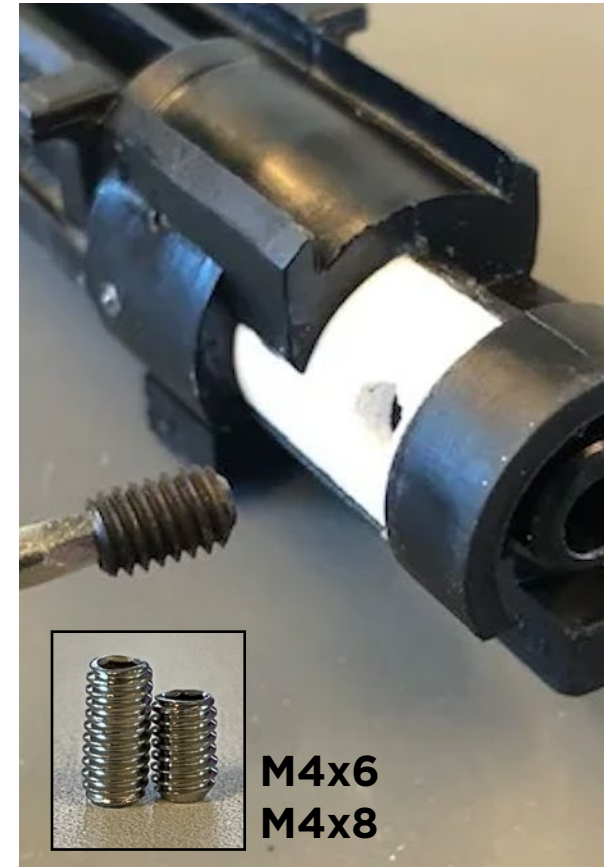
Open the package for the 2-part epoxy.

Read and follow mixing instructions as found on the packaging.

Apply the mixed epoxy to the nozzle, ensuring that no epoxy enters the nozzle through the newly drilled hole!

Press the Washer firmly into place, quickly cleaning up any epoxy which squished out.

To be safe, wait at least 12-24 hours to move to the next step.



3.

Two screws are included in the kit, though only one will be used.

An M4x8 screw is also included just in case you are not able to tune the FPS down far enough by using the M4x6. I suggest to start with the M4x6 first.

Use the included allen key or appropriate bit size to insert the screw into the 3D printed Washer. The screw itself will cut threads into the plastic, so the fit will be TIGHT at first!!!

Make sure to PRESS FIRMLY on the washer while screwing into place, to ensure the washer does NOT pull away from the nozzle!



1.

Once the Set Screw has been inserted, you can reinstall the nozzle back into the replica.

To begin, I have the set screw just flush with the washers outer surface.

If during the adjustment process the M4x6 set screw is pushed too far into the nozzle and risks falling inside, remove the screw fully and use the longer screw included in the kit.

Ensure that the outer end of the screw will not interfere or hit other parts inside your replica!



2.

To adjust the FPS of you replica, pull back on the charging handle, while holding the nozzle in the forward position to reveal the newly installed adjustment screw in the nozzle.

Insert the Allen Key and turn clockwise to REDUCE gas flow.

Turn counter clockwise to INCREASE gas flow (to a maximum of what the original nozzle could achieve)

With the 6mm long set screw included with this kit, I am easily able to tune my GHK AKS74U to sub 350fps levels. For full-length AK replicas, you may need to use the longer screw to adjust the FPS sufficiently.