

TDC Bracket Converter Kit- Installation Guide

Designed for the Krytac M4 Rotary & Krytac Kriss Vector Series

The TDC Kit is designed to fit onto the existing Krytac rotary chamber in relation to a R-HOP build which required a perfect top-down hop for the best consistency in accuracy and distance. Since the stock chamber is designed specifically for your model of rifle, it will prevent the risk of BB jamming and will hold the best air compression, compared to third party chambers in the market.

Please take your time to follow each of the installation steps and instruction to ensure it installed the correct way. Failure to so may ruin the setup altogether and may required replacements. The time may take 1-2 days to complete as some steps do require you glue some parts together.

We would recommend skilled technicians with a good degree and aptitude for modifying parts within the rifle. We strongly recommend to seek out your local gun tech to help in the installed were required.

Once all is installed, you can expect a great difference in performance! Have fun teching!



TDC Trolley Converter Kit – For Krytac M4 Trident Rotary Series and Kriss Vector (All are included in the purchased kit)

- 1. TDC Bracket
- 2. TDC Trolley
- 3. Modified Hop-up arm
- 4. Silicone M-nub
- 5. Zip Tie (not in Demo Photo)



What Else Will You Require For the Installation? Below are highly recommended and will make the process much easier.

- 1. Scalpel or Sharp Knife



- 2. Perm Marker Pen



- 3. Super Glue or Strong Adhesive



- 4. Handsaw



- 5. Hobby Tweezers



- 6. Sandpaper (Fine Grit 400+)



PREPARATION – TEST THE MESHING

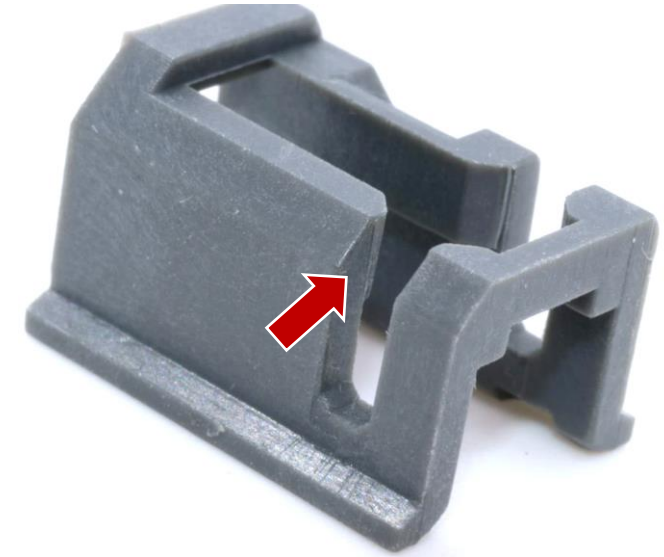
1

Test the trolley fits on to the wall of the hop-up chamber. As standard it should be able to move up and down without resistance. Use gear grease to smoothen the motion.



4

Likely there will be manufacturing burs and part-lines that can be found on the BRACKET that can affect the smooth downward movement of the trolley. Use a sharp knife/ Scalpel to cut them off. Sandpaper can be used remove the lines.



2

Test the Arm fits in between the hop chambers walls without being too tight – snug is acceptable. Lightly sand the sides of the arm on each side. Test incrementally back into the chamber until it fits nicely.



5

Place the Trolley into the Bracket slots. Test it can move up and down without resistance. Apply gear grease to smoothen the sliding action.



3

Test the front hop-up arm fits into the Trolley slot without resistance.



6

For all the moving parts that mesh or slides up and down, add some grease to help smoothen the action.

TDC INSTALLATION

7

Remove everything from the hop-up chamber. Install the Inner barrel with the R-HOP patch already installed, bucking and C-clip, and Brass O-ring



10

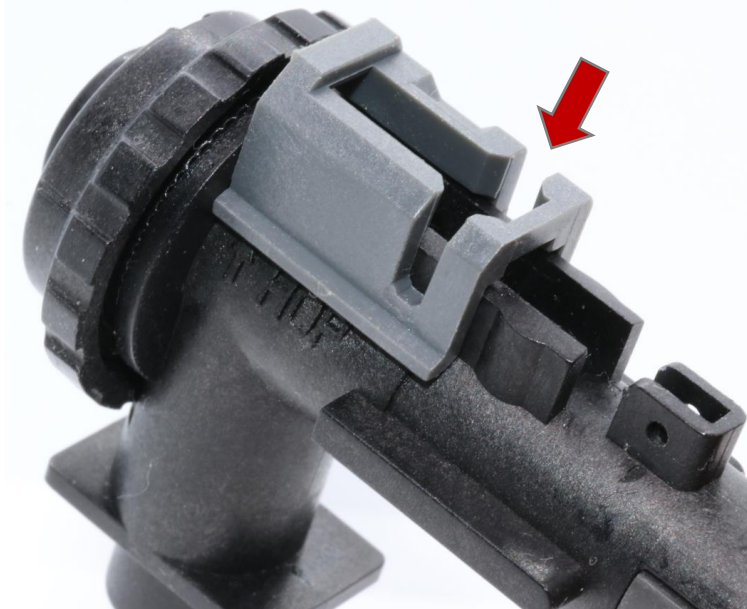
While holding the bracket in place to prevent movement, install the TDC trolley into the two slits found on the TDC bracket. Press down so the foot of the trolley is stuck firmly onto the M-nub.

Take the Bracket and arm back out of the hop up chamber for now.



8

Place the bracket over the hop-up unit chamber



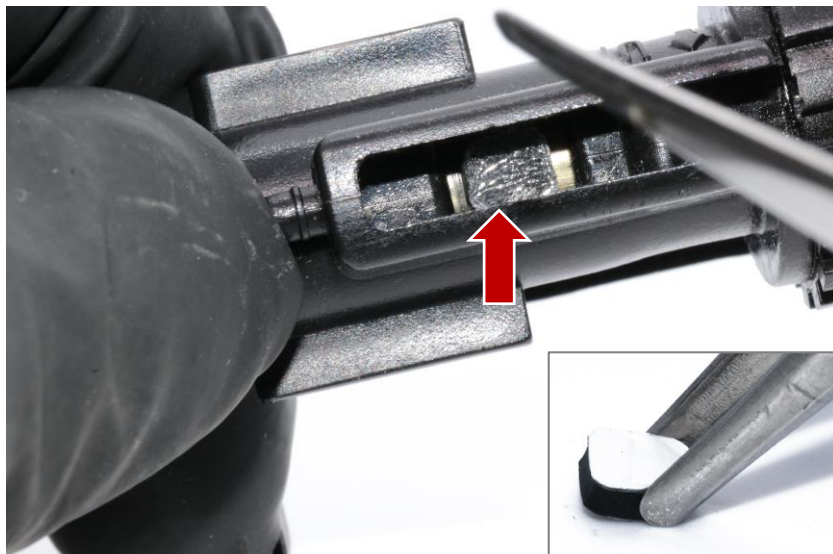
11

1. Fit the trolley down into the chamber
2. Insert the long arm into the trolley.



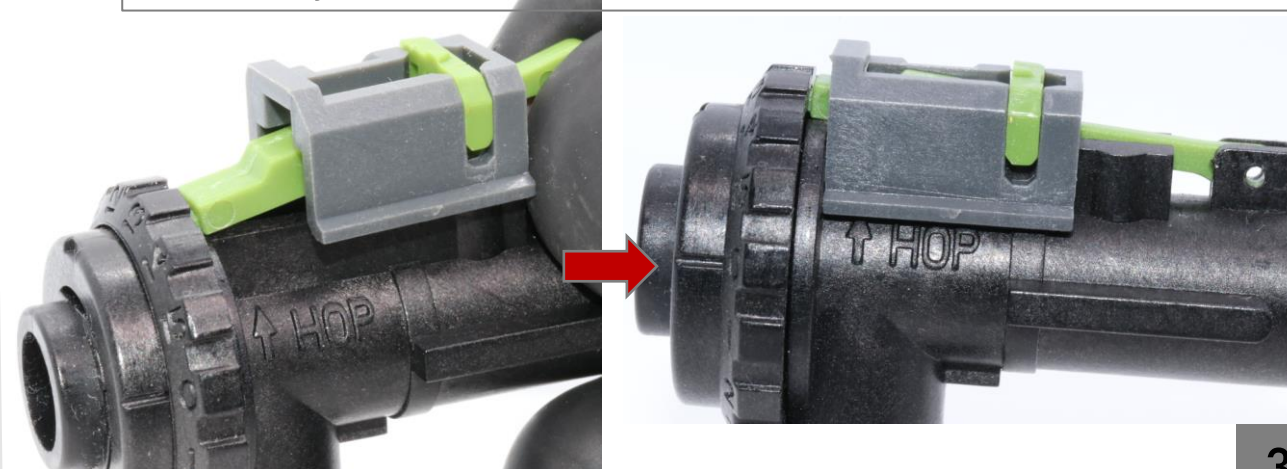
9

Remove the sticker paper from the M-nub and place onto the hop-up window. Ensure it is directly above the R-HOP patch to achieve a unison amount of hop force applied right across the patch.



12

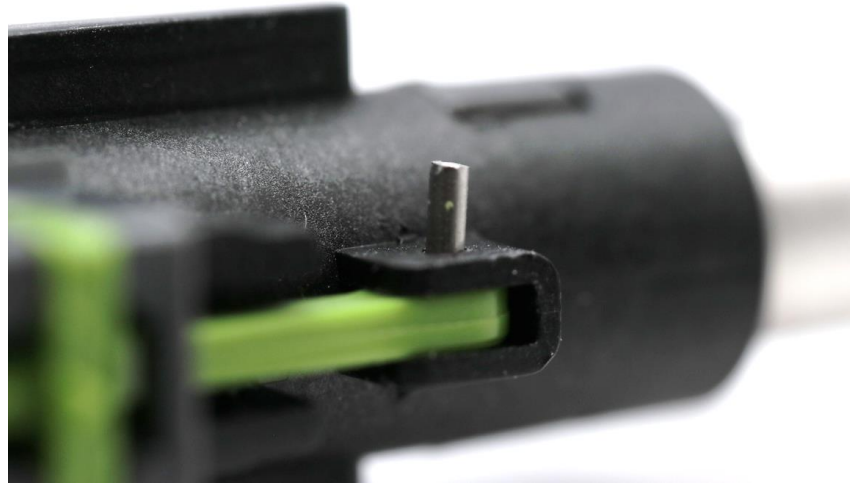
Fit the kit into the chamber, angle it so the tail inserts in the adjustment wheel first then adjust the bracket to the back of the chamber. Use Pin to lock



TDC KIT INSTALLATION

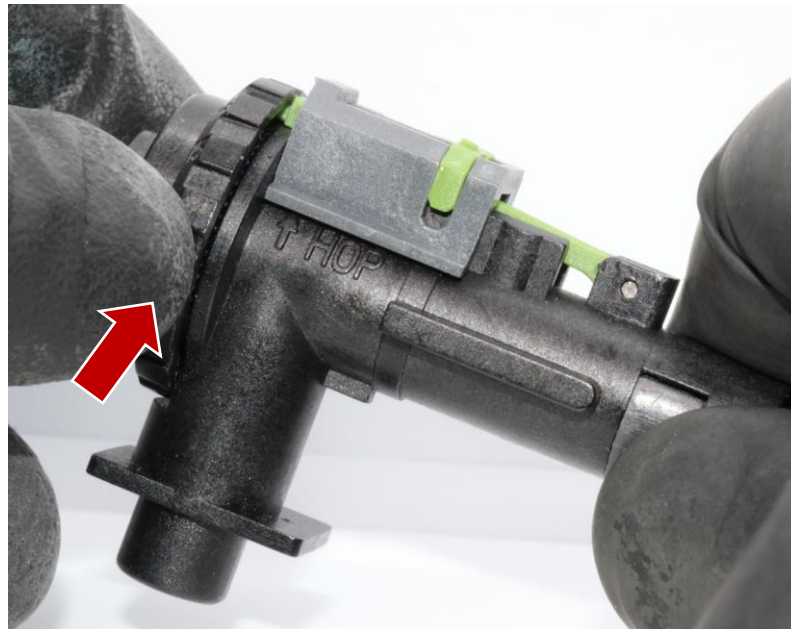
13

Use the exiting pin to lock the lock and bracket kit into the hop up chamber.



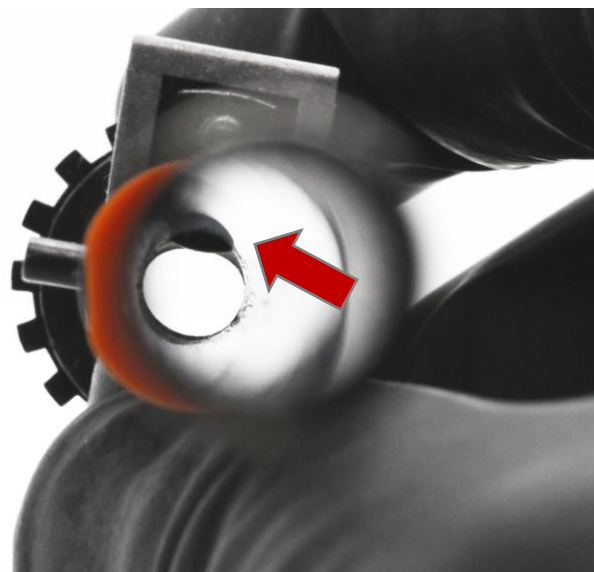
14

Adjust the dial to the max on the chamber to apply the hop fully.



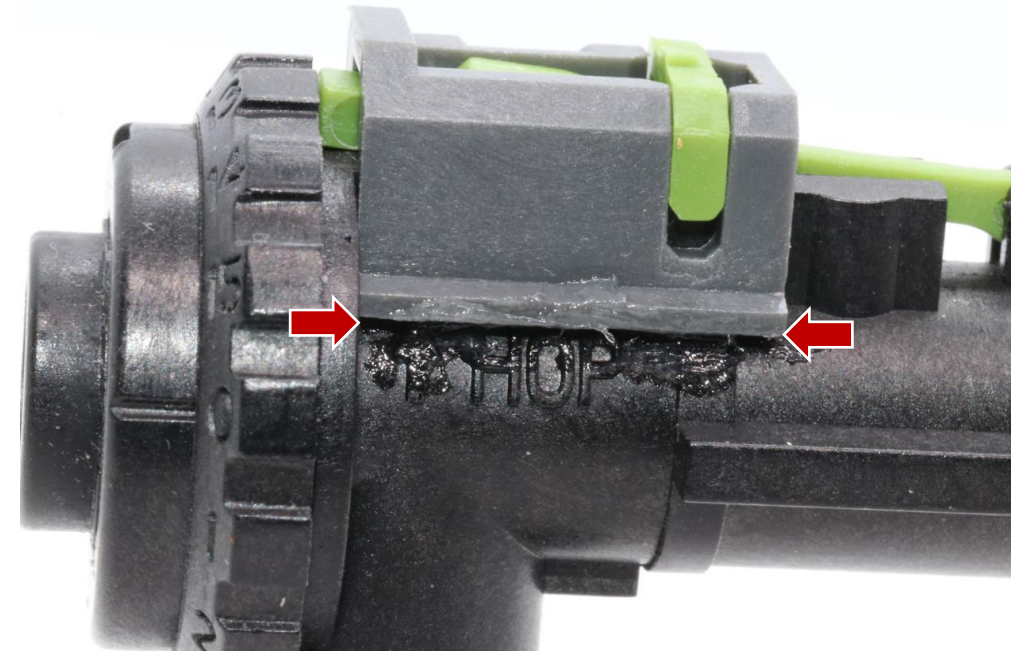
15

Look through the inner barrel, you should see the R-HOP patch protruding downwards to verify the kit is functioning. Adjust the dial back to 0 (neutral) when done.



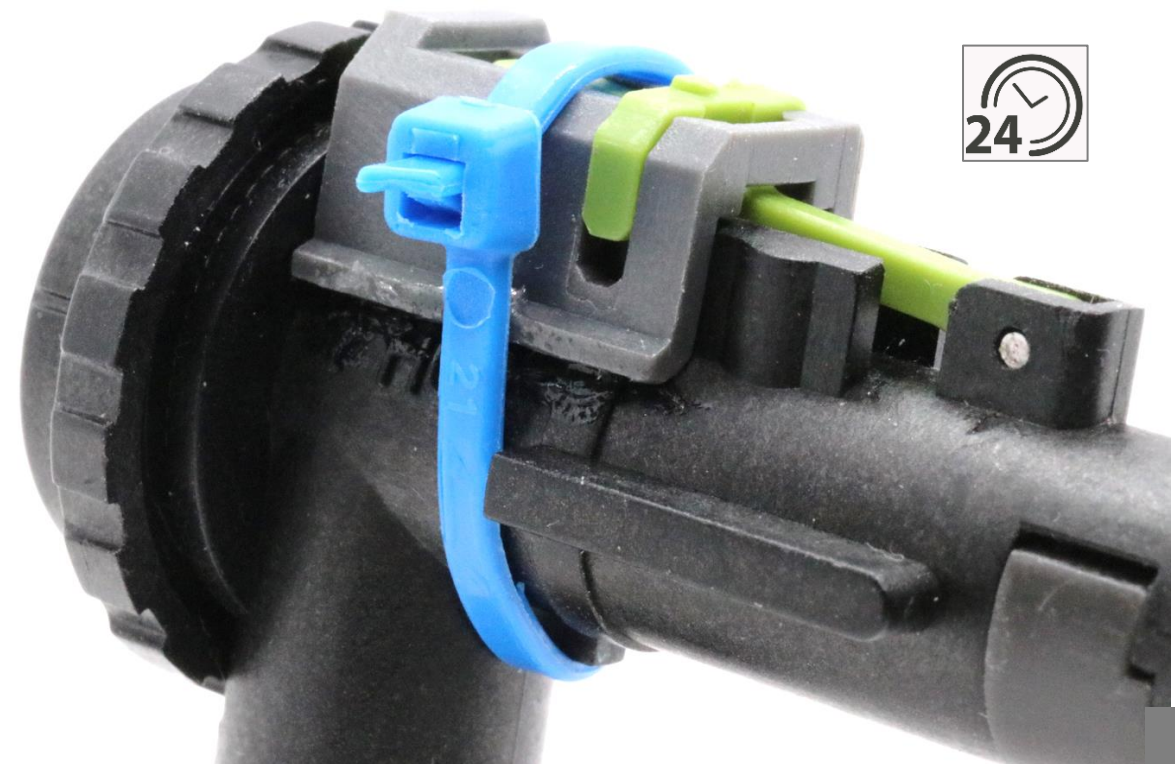
16A

Once you are happy, next will be to permanently stick the TDC bracket in place. Apply a thin layer of super-glue on foot of the bracket – do this for BOTH sides. Do not over do it with the glue, careful not to have glue on the trolley and slot it travels down.



16B

Use the Zip tie (supplied with the kit), to lock the TDC kit into place. Do not over tighten – a firm amount is only required. Leave for 12 minimum and/or 24 hours to fully cure (dry). The Zip tie can be discarded after the glue have dried.

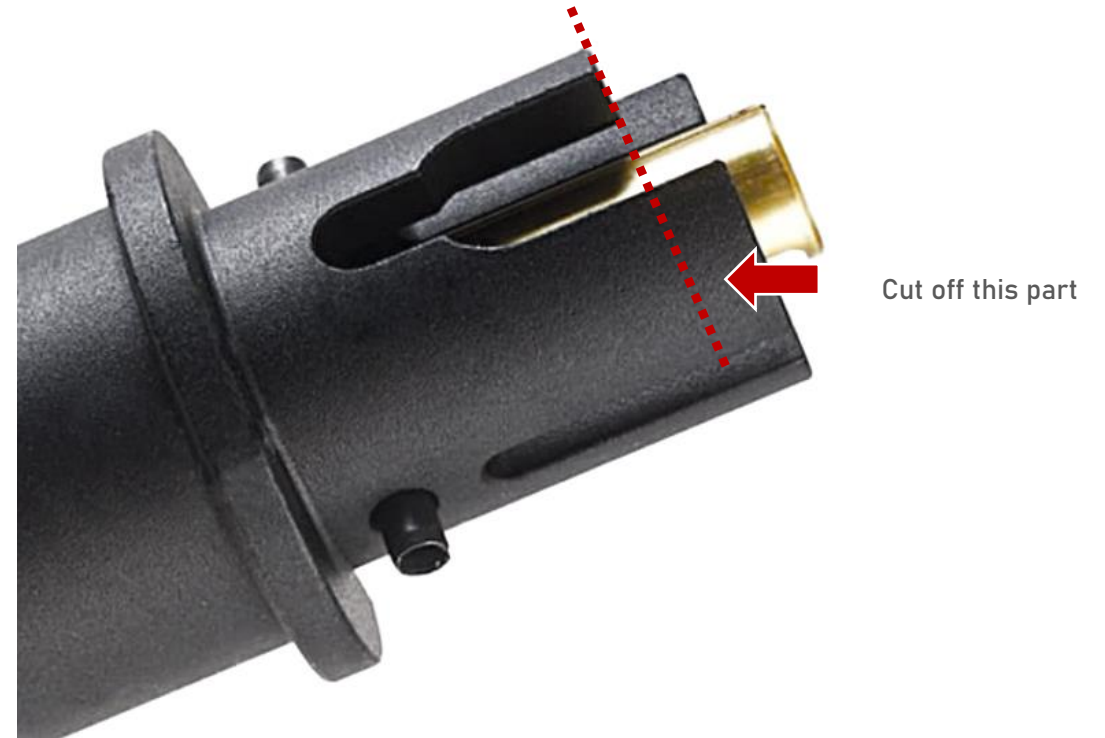


OUTER BARREL MODIFICATION

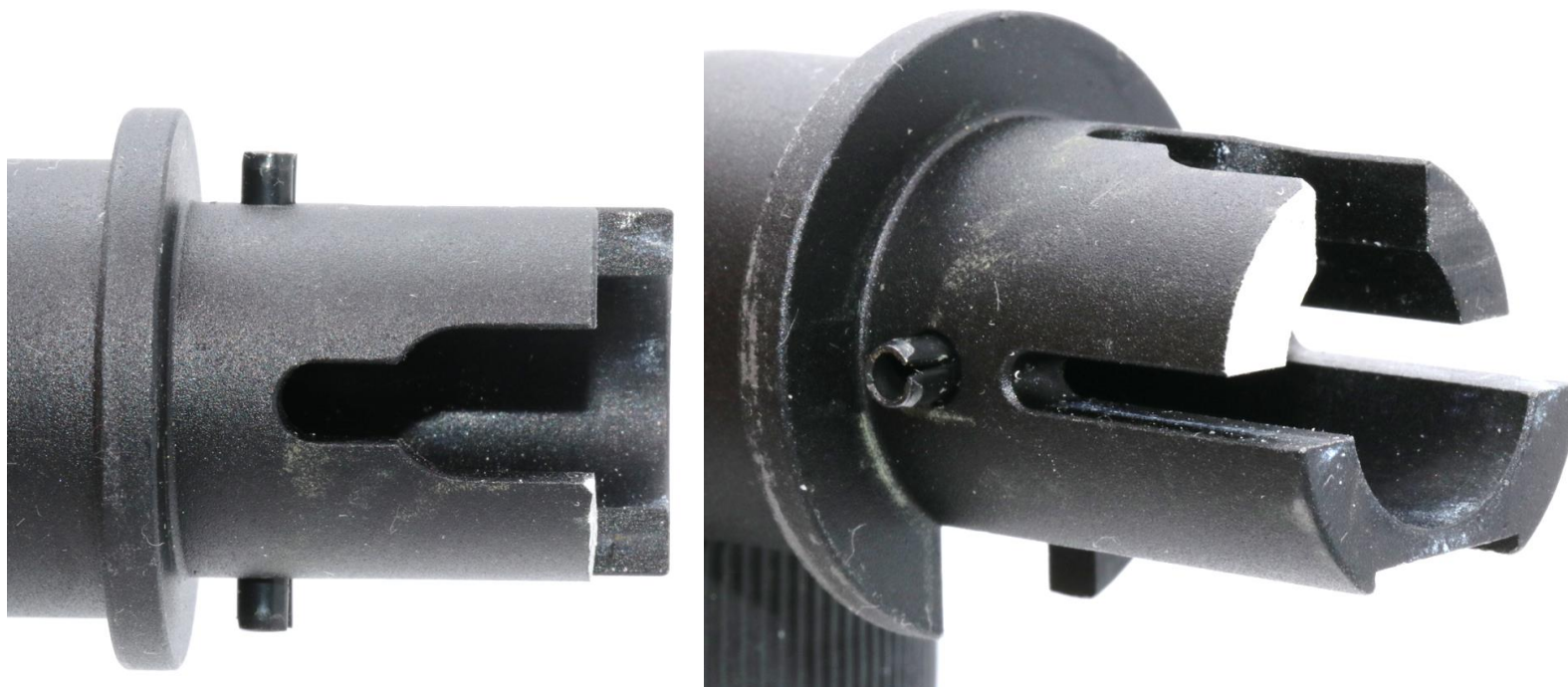
17 Take out the outer barrel from the upper receiver. There are some videos on youtube to show you how to take this out. The outer must be modified in order for the TDC kit to fit properly.



18 The metal part on the left, needs to be removed. You can mark it with using the metal part on the right as a reference to draw the line.



19 Once completed, the left part of the metal will be symmetrical and balanced to that of the right. Use sandpaper or a sanding tool to get rid of any sharp edges or burs from the cut. Clean with wet paper when completed.



20 Once completed, try testing the TDC kit & Chamber into the outer barrel. When complete install the outer barrel back into the handguard followed by the hop-up unit.



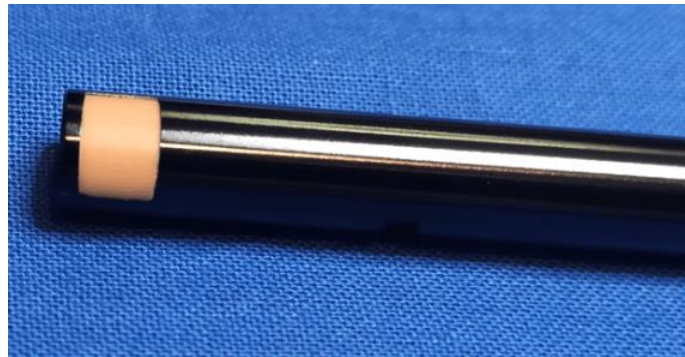
R-HOP vs FLAT-HOP Setup?

The TDC Kit is designed to work with R-HOP and Flat-hop set ups. Below are the different brands we recommend that will work well and are proven to perform well for superior accuracy, longer distance and consistency of BB shots. You can choose either of them with confidence depending on availability and preference for each type of setup.

R-HOP Patches

Recommended R-HOP Patches that are considered a “drop-in” patch. Each brand have tailored sizes to fit the hop-up window perfectly for the particular inner barrel intended to be used. These can be easily found in retailers worldwide or bought directly from them. Once installed superior BB travel distance of 70m+ and with tight accuracy and grouping.

Psionic R-HOP Patches (Kit)
<https://psionic-upgrades.com>



Elvish R-HOP Patches
<http://www.elvishtac.com>



Sniper Upgrades RHOP
<https://sniperupgrades.com/>

**SNIPER
UPGRADES**



R-HOP Drop-in Bucking's

Maple Leaf MR Bucking's now offer a R-HOP performance bucking's that are a completely new drop-in without the need for the patches. You just insert it into the inner barrel and you're good to go. For the average player who wishes to gain RHOP-like performance with out the need to tech or modify these are perfect and you could gain the distance and accuracy to of RHOP however over the longer distance, the groupings are normally not as accurate compared to the original setup above however still impressive.

Maple Leaf MR Hop-up Bucking (Drop in R-HOP)



FLAT-HOP Build

For Flat-Hop, all you is a bucking that does not have mound on the inside. You can cut it off yourself DIY, or purchase a manufactured version by companies like Prometheus or Modify.

If you have any question on this product or installation process, feel free to email us at info@airtechstudios.com