

Airtech Studios M4 Top Down Center Bracket Integration Kit



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M-nub Installation

1. Remove the 3M sticker from the M-nub and apply silicone grease.
2. Place the M-nub inside the hop-up window in the chamber.

Trolley Installation

1. Apply silicone grease on all contact surfaces and vertical areas.
2. Orientate the trolley to face the front and insert it into the TDC Bracket.

Final Assembly

1. Install the adjustment arm and lock the TDC system with a bolt and screw.
2. Reinstall the stock adjustment wheel on the hop-up unit.

Hop-up Adjustment

1. Set the dial to zero and check for any protrusion in the inner barrel.
2. Adjust the hop-up by clicking and checking for mound protrusion to confirm functionality.

Bracket Gluing

1. If satisfied with the setup, consider supergluing or Loctiting the bracket set onto the hop up chamber.
2. Only glue the lower edges and ensure complete satisfaction before gluing.

FAQ

Q: Do I need to modify the outer barrel for this kit?

A: Yes, you will need to modify the outer barrel to fit the TDC Converter kit. Follow the provided instructions to cut off the required part of the outer barrel.

Installation Manual

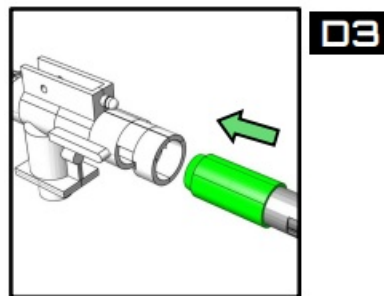
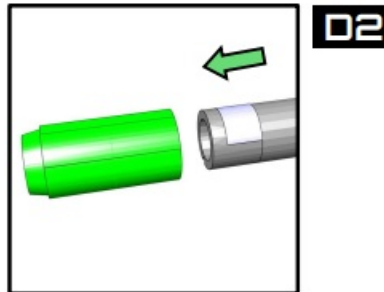
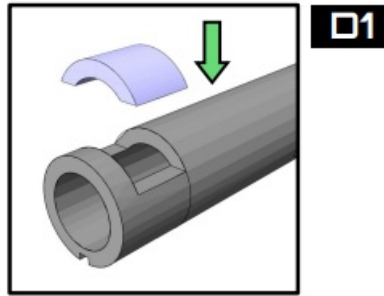
Ares Amoeba M4 Hop-up chamber – Top-Down-Center (TDC) Bracket Integration Kit

Step by Step Installation

Please Follow Each Step Precisely

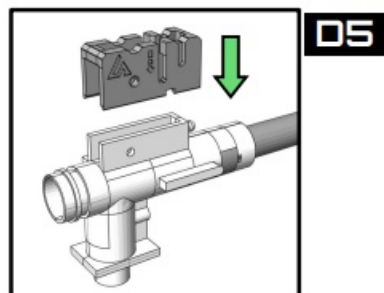
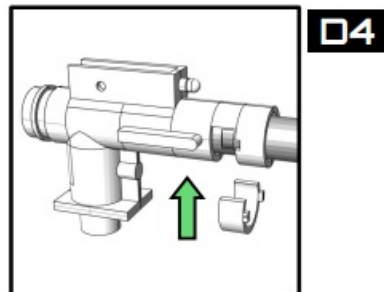
1. D1. Install the RHOP patch into the Inner barrel. Some reputable brands includes Psionic, Elvish and Silent Sniper that are good for performance and offers many sizes for different barrel brands and models. Alternatively, at this stage you can install a RHOP bucking. Brands like Tru-hop and Maple Leaf Macaron are recommended.
2. D2. Insert the bucking – ensure this is a mound less bucking. Brands like Prometheus and Modify offers such buckings.
3. D3. Insert the barrel set up in the Ares Amoeba hop-up chamber. Apply some silicone grease on around the

bucking so it can slide in easily.



4. D4. Install the Maxx C-clip. This will keep your inner barrel centered.

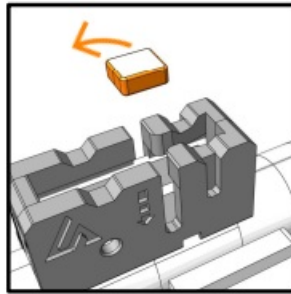
5. D5. Install the TDC Bracket onto the hop up chamber



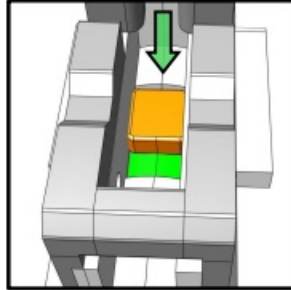
6. D6. Remove 3M sticker on the top of the M-nub. Next apply silicone grease all around the Mnubs and bottom.

7. D7. Place the M-nub into the hop-up window inside the chamber

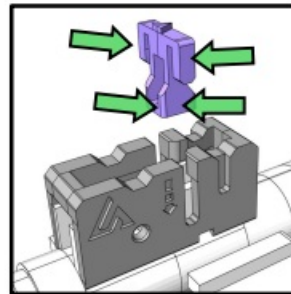
8. D8. Apply silicone grease on all the surfaces that will come in contact with each other or the TDC operation. All vertical surfaces should be applied.



D06

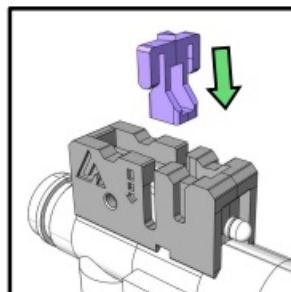


D07

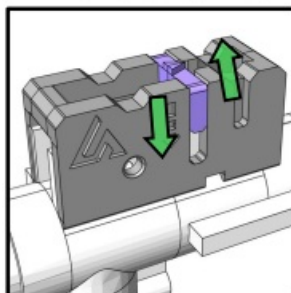


D08

9. D9. Orientate the trolley to face the front, you can use the arrow located at the top to find the orientation and insert into the TDC Bracket.
10. D10. Once installed try using a rod to move the trolley up and down and ensure it can do so easily without much resistance.

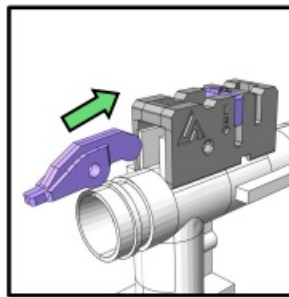


D09

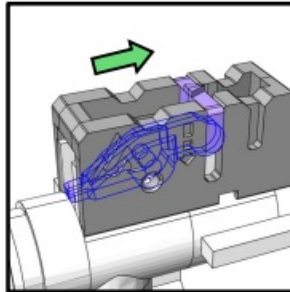


D10

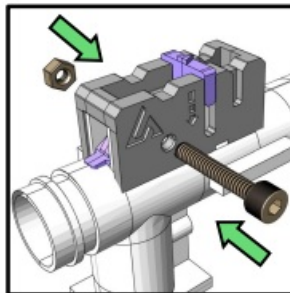
11. D11. From the back of the hop up unit install the Adjustment arm.
12. D12. The adjustment arm will be installed the middle of the TDC trolley as shown in the diagram.
13. D13. Insert the bolt and screw to lock the TDC system. Make sure its firm, but do not over do the tightness.



D11

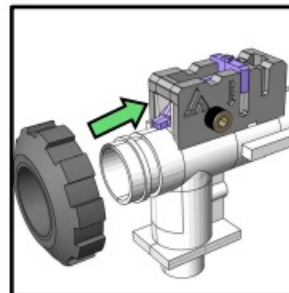


D12



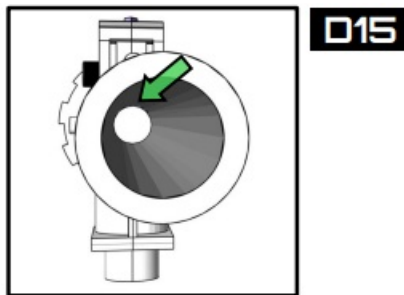
D13

14. D14. Install the stock adjustment wheel back to the hop up unit. It will control the newly installed hop up arm now.

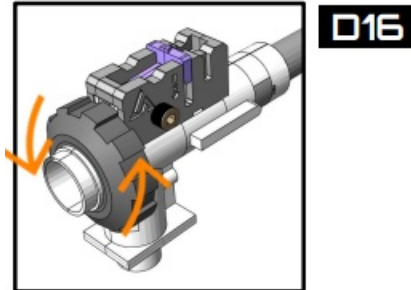


D14

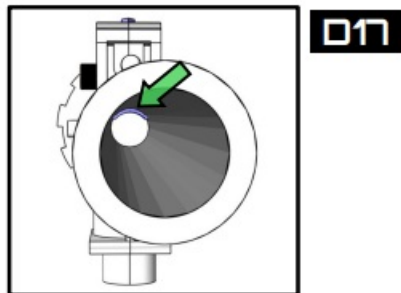
15. D15. Ensure the dial is set at zero. Take a peek down your inner barrel and you should not see any mound protruding from the top.
16. D16. Go back and dial the hop a few clicks.
17. D17. Look down the inner barrel again and you should see the mound protruding out. That means the hop is working.



D15

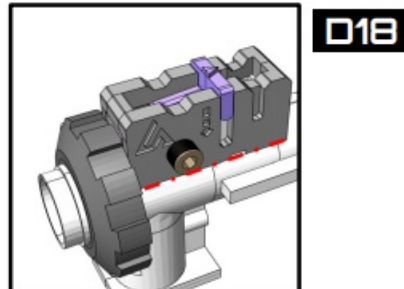


D16



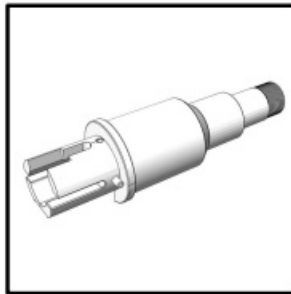
D17

18. D18. If you're happy with the set up and everything is working, you can superglue/ Loctite the bracket set onto your hop up chamber. Only the lower edges are required. But please don't glue until you are fully happy with the set up!

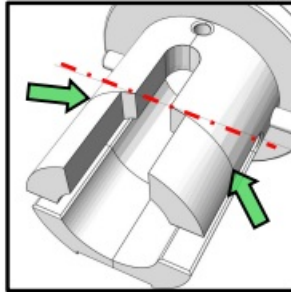


D18

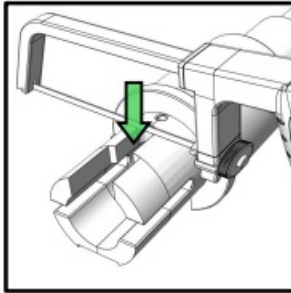
19. D19. The outer barrel needs to be modified in order for the TDC Converter kit to fit. You will need to remove the outer barrel from the handguard. Depending on which model it is usually straight forward to take out. Some screws on the handguard and a grub screw inside.
20. D20. locate the back part of the outer barrel. The top part is what needs to be modified. See diagram you can see the line we draw at the end of the "U" section. You will need a hacksaw to cut this part off clean. Use a pen or pencil to draw the line on the outer barrel as your guide.
21. D21. Take a hacksaw or cutting tool and cut both ends of that top part of the outer barrel.



D19



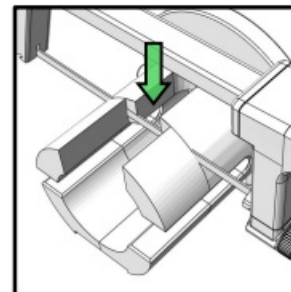
D20



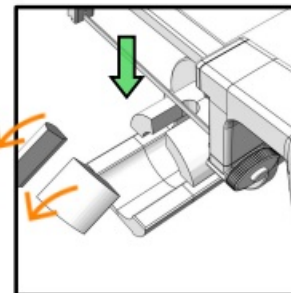
D21

22. D20. Ensure you cut on a straight line as much as possible.

23. D23. Once the both parts are off. Sand down the sharp parts and burs that remain on the metal and smoothen it down.



D20



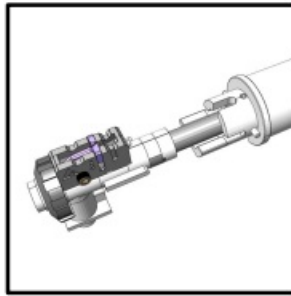
D23

24. D24. Take your TDC converter and insert into the outer barrel for testing.

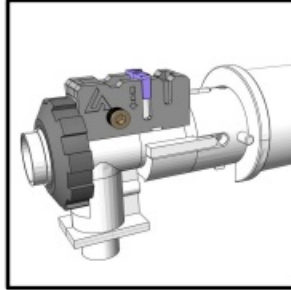
25. D25. See diagram D25 this is what it should look like after the modification process.

26. D26. Top View of successful install. Once completed, installed the outer barrel back into the gun, alongside the handguard and install the new TDC converter kit last.

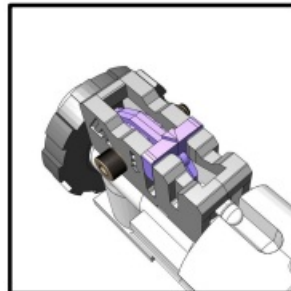
Spend some time on a field day testing various BB brands and weights and which hop setting works best for your setup! Have fun!



024



025



026

Great job installing the Advanced TDC converter kit on your Ares Amoeba Chamber

If you run into any issues during the setup process, please don't hesitate to reach out to our technical support team using the email provided. We're here to help you get your hop up chamber dialed in just right. Be sure to provide as much detail as possible about any problems you're facing, and we'll work with you to get everything sorted out.


Let me know if you have any other questions!

info@airtechstudios.com

Airtech Team

www.airtechstudios.com

Documents / Resources

	<p>Airtech Studios M4 Top Down Center Bracket Integration Kit [pdf] Installation Guide M4 Top Down Center Bracket Integration Kit, M4, Top Down Center Bracket Integration Kit, Center Bracket Integration Kit, Bracket Integration Kit, Integration Kit, Kit</p>
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References

- [Airtech Studios](#)
- [User Manual](#)

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