

HRD Industries - Dude Spike 2.0 and Murder Spike Build Instructions

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Important Notice

Thank You for purchasing The Dude Spike 2.0 or the Murder Spike!

Please remember, the Dude Spike 2.0 is for the LD6 Carbon Fiber Mast, from HRD Industries. The Murder Spike (K8MRD) is for the POTA 20, with multiple reports of it working for the POTA 33.

First, my attorney is advising me to add a warning about this product:

Safety Advisory

This product includes sharp components and is designed exclusively for mounting portable radio masts in outdoor operations. To ensure your safety and the safety of others, please follow these guidelines:

Intended Use Only:

This spike is only for mounting portable radio masts and related operations. Any other use, especially for self-harm or harm to others, is strictly prohibited and outside the intended scope of this product.

Handle with Care:

When not in use, avoid walking or running with the spike exposed. An internal cap is included to securely store the spike inside the tubing, reducing the risk of accidental injury.

Disclaimer:

While the product name may include the word "murder," this is purely a branding choice. This spike is not designed or intended for anything other than its stated purpose of assisting in portable radio operations.

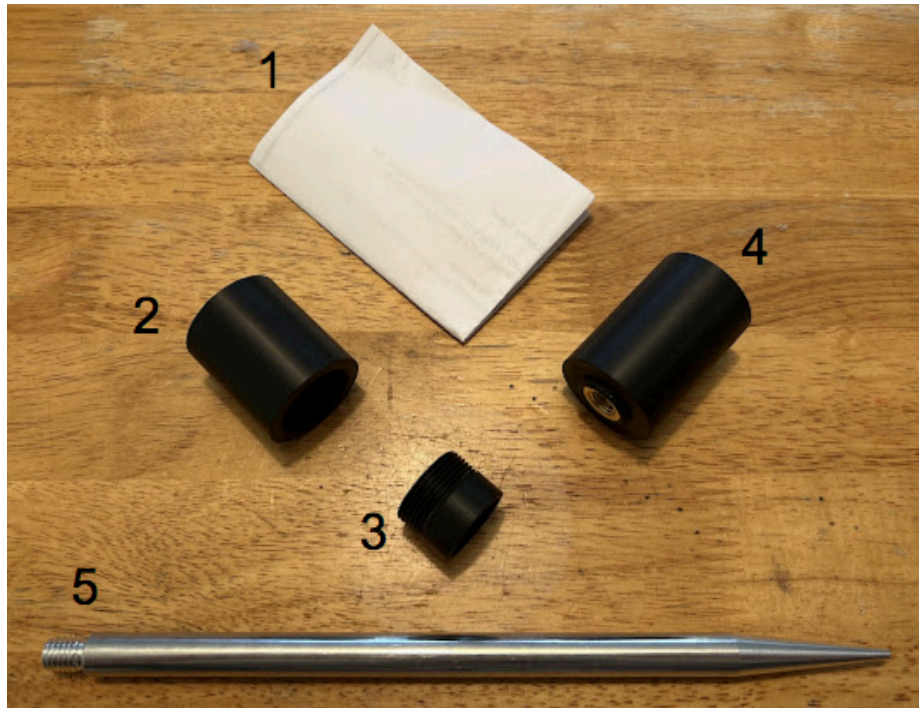
This product is designed to be inserted into the ground. Before use, always check for underground utilities to prevent injury, damage, or service disruption. Know your soil, as hard, rocky, or compacted ground may require extra effort and could damage the product.

Please use this product responsibly and safely.

With that, please enjoy your spike.

Please contact me via my ETSY store, with any questions about this product, suggestions, or concerns

Parts List

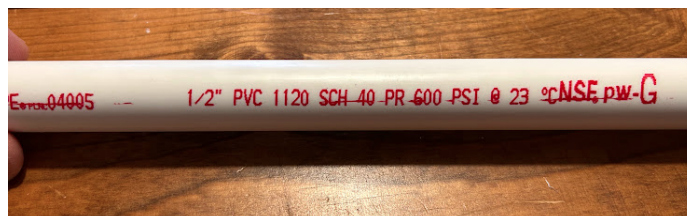


1. Super Secret Document YOU MUST READ prior to build
2. Top Cap
3. Top Cap Thread Ring (**See Note Below**)
4. Bottom Cap
5. Aluminum Spike

***Note: Parts 2 and 3 may be shipped threaded together and may look like this:



The other material needed for the build is a 12" long piece of 1/2" SCH 40 PVC. This is now included. PLEASE NOTE: You WILL need to cut this to proper length.



Build Instructions

Cut the PVC

If you purchased the Murder Spike for the Pota 20 and/or Pota 33 carbon fiber masts, cut the PVC to **11.25"**

If you purchased the Dude Spike 2.0 for the Lil Dude 6 cut the PVC to **10.25"**

To do this, measure and mark the PVC. A chop saw is a quick way to cut PVC, but cut slowly. If using a hand saw, a hacksaw(used for metal) is recommended. Also if using a hand saw you can use a piece of painters/masking tape wrapped around the PVC at the mark to cut, following the edge of the tape while you cut will help with making a square cut. You can also use a PVC cutting tool. Even a pipe cutter designed for copper pipe can be used.

It is important that the PVC cut be square otherwise the caps may not sit properly

Dry Fit Pieces

Put all the pieces together **without any glue**.

The PVC will be inserted into the ABS plastic end caps, depending on the method used to cut the PVC you may need to sand any flare or burrs that the cutting method put at the end of the PVC.

First put Part 3, Top Cap Thread Ring, onto the PVC such that the threads on the ring sleeve are closer to the end of the PVC.

Then thread Part 2, the Top Cap, onto Part 3 until the threads bottom out, do not over tighten finger tight is fine.

Press the PVC into the assembly of the Top Cap until it bottoms out and mark the edge of the ring sleeve as shown below



Prepare for Glue

Remove the Top Cap assembly and sand the PVC end after the mark made:



Unthread the Sleeve and top cap and sand on the **INSIDE** of Part 3 the Ring Sleeve:



Wipe away PVC dust and clean the surfaces to be glued. **Be careful not to remove the mark on the PVC indicating the edge of the threaded sleeve.**

Gluing the Threaded Sleeve

Before applying glue put just the threaded sleeve on the PVC aligned with the mark made earlier and mark the other edge of the sleeve



Remove the threaded sleeve from the PVC and apply super glue around the PVC between the two marks made. Then spin the threaded sleeve as you put it back on the PVC in between the two marks. **Ensure that the threads are towards the end of the PVC as shown in the photo above.** Wipe off any excess glue being very careful not to get any glue on the threads.

Gluing the Bottom Cap

Lastly glue the bottom cap to the end of the PVC opposite of the threaded sleeve.

Apply glue to the PVC

Inserting the PVC and ensure it's fully inserted into the Bottom Cap

Allow the Glue to Cure

Set aside and allow it to cure based on the glue manufacturer's guidance. Be sure that it is set in a way that the pieces will stay where they are during the cure process. Also remove the aluminum or steel spike from the tube to prevent any vapors cutting in the spike.

Do not use it until the glue is cured.

Assembly Instructions

Assemble for Storage

Screw the spike into the internal threads of the top cap. Take care that the spike is aligned with the cap to avoid cross threading

Like this:



Not like this(exaggerated for effect)

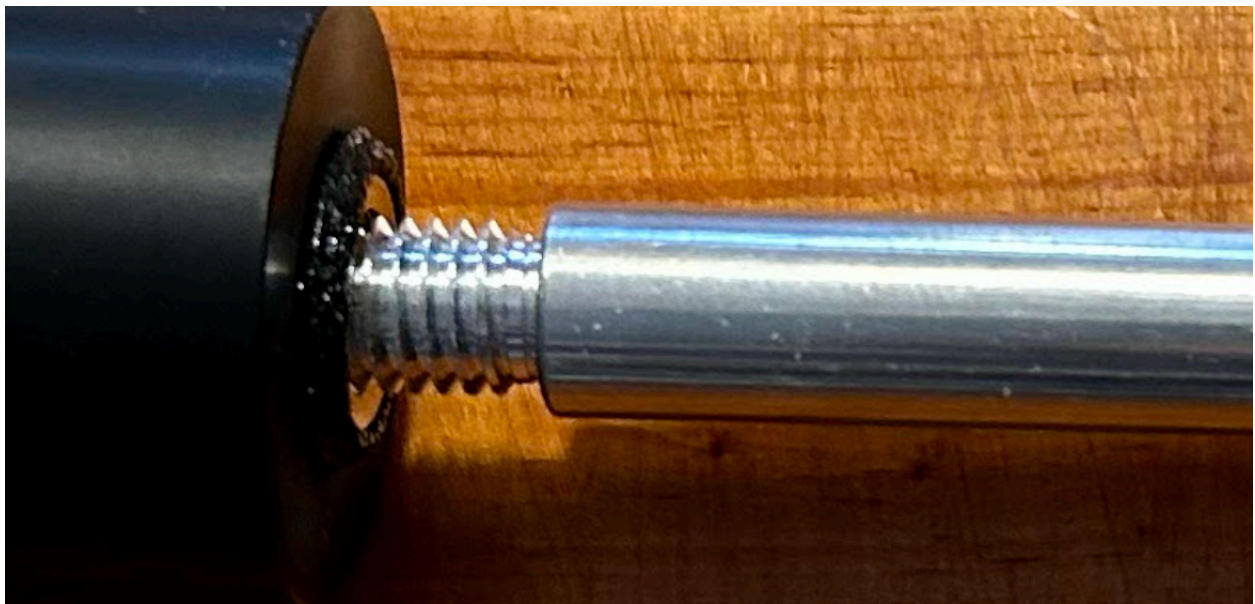


Then insert the Top cap and Spike assembly into the top end of the PVC with the threaded sleeve. Thread the Top cap onto the sleeve for secure storage



Assembly for Use

Remove the top cap and the spike from the top cap. Thread the spike into the metal thread insert in the bottom cap



Note: The metal thread insert comes pre installed at HRD Industries. It may be installed slightly off axis. Meaning the spike isn't exactly in line with the PVC. This shouldn't have any effect on functionality.

Then screw the Top cap back on and the spike is ready to be used for its intended purpose!
Enjoy!

Deployment/Use Directions

The following instructions use screenshots from Ham Radio Tube's video:



<https://youtu.be/VMllu8iJFEQ?si=fnfemLkudNj9tAMi>

Press/Hammer spike into the ground, different ground types will offer different levels of resistance. In rocky soil be careful not to hammer the spike into a rock this could damage the aluminum spike. Steel spikes may be available at a later date. Also know the area and avoid potential shallow underground utilities like sprinkler systems, etc:



Remove the bottom cap from the mast and put it in your pocket or other safe location unless it's

mechanically attached to the mast:



Raise the mast and place the mast down over the spike:

