

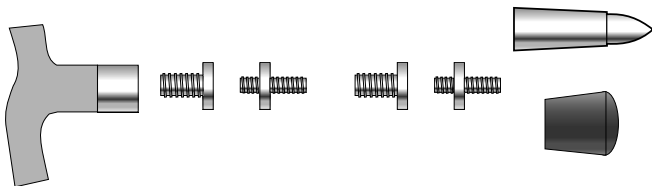
Turning a Walking/Climbing Stick

Supplies Needed

- Three blanks each: 1 1/8" dia. x 10-12"
- Drill Chuck
- Revolving Center
- Sandpaper & finish
- Epoxy
- 11/32" & 7/16" Drill Bits
- Eye and ear protection

Layout the Parts

1. Select three hardwood blanks 1 1/8" x 10 to 12" long depending on the stick height desired.
2. Layout the parts in the correct order and mark each part for correct orientation to ensure a proper final assembly.

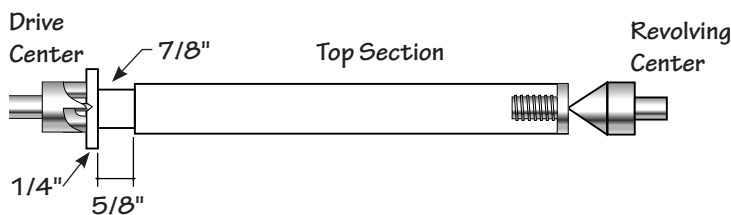


Drilling the Coupler Holes

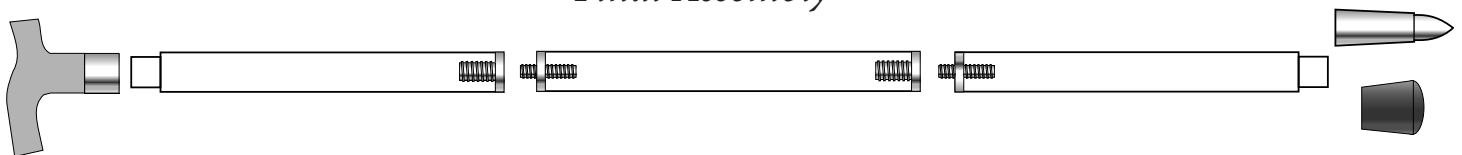
1. Make sure the holes are drilled parallel to the blank and perpendicular to the end of the blank.
2. Top Section: drill a 7/16" hole in the bottom of the blank.
3. Middle Section: drill a 11/32" hole in the top of the blank and a 7/16" hole in the bottom of the blank.
4. Bottom Section: drill a 11/32" hole in the top of the blank. When all holes are properly drilled, apply some epoxy to the threads on the couplers and screw them into the blanks.

Turning the Top Section

1. Mount the blank onto the lathe using a drive center and a revolving cone center.
2. Turn the blank down to the diameter of the coupler.
3. Cut a 7/8" tenon 5/8" long at the top of the blank for the handle coupler, leaving 1/4" extra wood next to the drive center. Sand and finish the wood and brass as one piece. (Brass will cut and sand like wood)

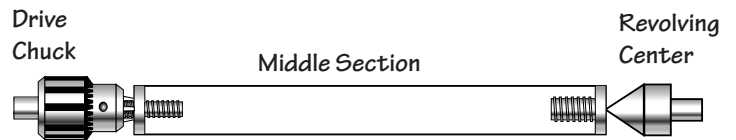


Final Assembly



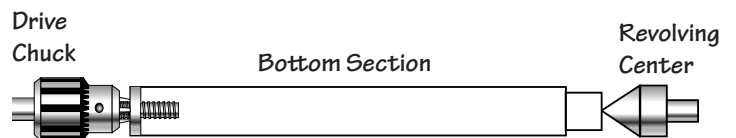
Turning the Middle Section

1. Mount the blank onto the lathe using a drill chuck and a revolving cone center. Turn the blank down to the diameter of the couplers. Sand and finish the blank.



Turning the Bottom Section

1. Mount the blank onto the lathe using a drill chuck and a revolving cone center. Turn the blank down to the diameter of the coupler.
2. Cut a 11/16" tenon 13/16" long at the bottom of the blank for the rubber tip. Cut a tapered tenon 9/16" long with the large diameter 5/8" and the small diameter 9/16" for the climbing tip.



Assembly

1. Using an epoxy, attach the brass handle coupler to the 7/8" dia. tenon.