

# The Skull Chair

Exclusively from Carolina Wood Designs

Assembly instructions - The template set is designed for full 1" thick material. This will make your chair sturdy and stable.

If you use 3/4" thick boards there are some template holes which will need to be adjusted and bolt length will change. The most cost effective material to use is 5/4" thick, pressure treated decking boards, but any material can be used as long as it is a full 1" thick. I recommend Cedar (stained) or Poplar(Painted), Tigerwood/Ipe (oiled)



## Materials needed

6- 5/4" x 6" x 8' (actual size is 1" x 5.5" x 8') Wooden Boards

Make sure you pick out straight and un-warped boards.

8- 5/16" x 18 x 2.25" Bolts

16- 5/16 washers

8- 5/16 x 18 nuts

40- #8 x 2" exterior screws

60- #8 x 1.5" exterior screws

## Tools recommended

Jig saw/Band saw, Table saw, chop saw

Cordless drill, cordless driver with appropriate bit for screws

5/16" drill bit

3/16" drill bit

1/8" drill bit

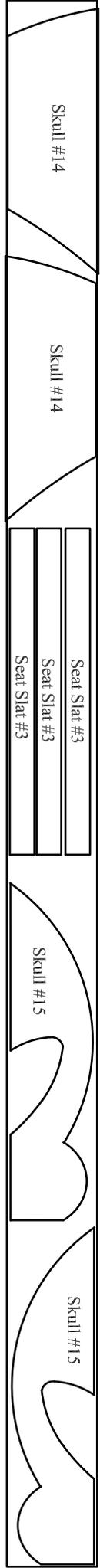
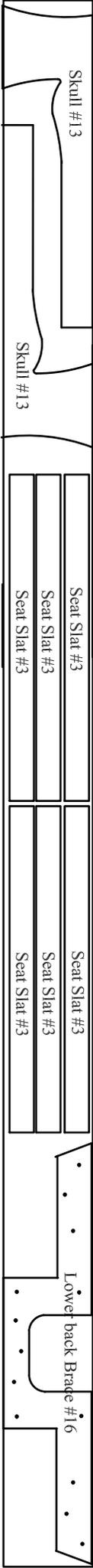
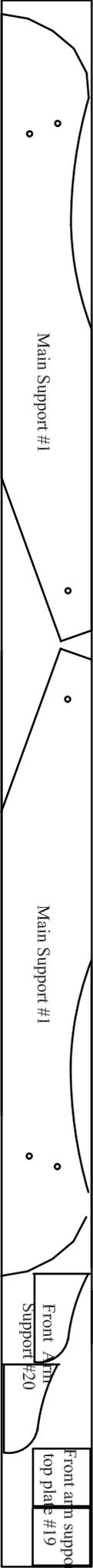
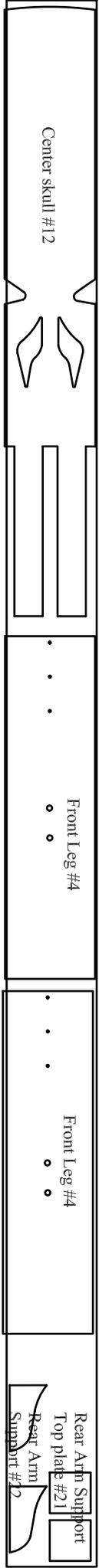
1" Paddle or Forstner bit (if using the CWD hardware set)

1/2" wrench, 1/2 socket and ratchet

Square

Lay out templates on the 6-8' boards as outlined in photo below. Try to work around and eliminate any bad spots in wood. Trace and cut out using jig saw or table saw where applicable. Once all parts are cut out, drill all 5/16" holes\* (if using our hardware kit with black decorative plugs to cover bolts you will need to counter-bore the 5/16" holes in #4 and rear 5/16" holes in #1 with a 1" forstner/paddle bit 1/4" deep so the black covers will snap in. Do this prior to drilling the 5/16" thru holes. Use a 3/16 drill bit and drill all the small holes in corresponding templates. Sand or router all sharp edges and rough spots

Depending on the material you have chosen to use, you may want to finish or paint your chair at this point. If you used pressure treated deck boards, you may have to wait for a period of time for the wood to dry before painting. If using Tigerwood or Ipe I recommend Messmers UV plus for hardwood decks. Simply wipe on this oil and let dry. Re-apply anytime the wood is fading. I also use a wax to seal all the end grain on these exotic woods to prevent cracking.

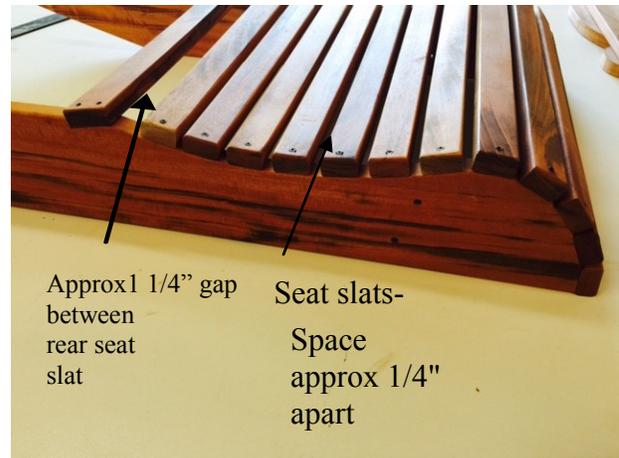
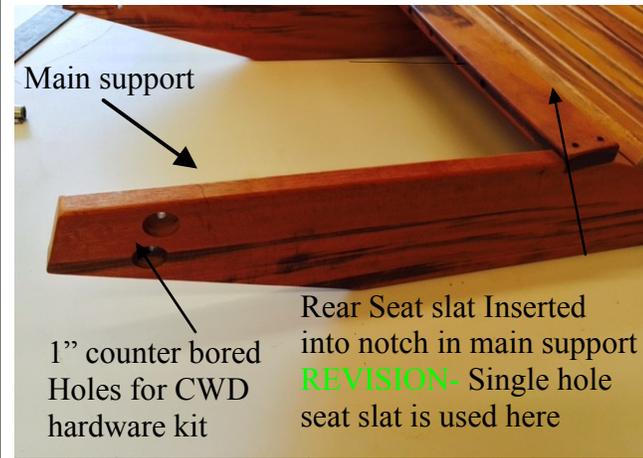


## ASSEMBLY

1-Stand the two main supports (#1) up on a large flat surface, as shown in picture with large counter bored rear holes facing outwards on each main support.

BE SURE NOT TO DRIVE THE SCREWS IN TOO DEEP. DRIVE THEM JUST FLUSH/EVEN WITH TOP OF BOARD. Pre-drill and install one of the 13 seat slats (#3) into the notch of the main supports using 2- 2" screws, be sure that the ends are even/flush with the outside of the main supports.

Pre drill and install the front seat slat (#3) to front edge of main supports using 2- 2" screws. Repeat installing the remaining 11 seat slats over the main supports using the 2" screws, while spacing them approx 1/4" apart at the narrowest point



2-Using 2- 5/16" x 2" bolts attach front legs (#4) to main supports (#1) making sure the 3 small holes in the legs are on top and the two counter bored (1") holes are facing out. Insert bolts thru the legs and then thru the main supports, install washer and tighten nut using a 1/2" wrench and socket to tighten.

Attach back support uprights (#5) using 2- 5/16" bolt thru each main support. Make sure top angle is facing the correct way. Use a square to ensure legs are 90 degrees to main supports and straight up and down. Insert bolt from the outside, thru the main support and then thru leg, Tighten 5/16 bolts using 1/2" socket and wrench.



**3-Install Top back support (#6) using 4- 2" screws while centering the 2 rear legs (#5) on screw holes. The front of the rear legs should be flush with front of the top back support**



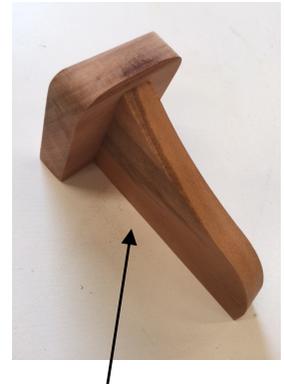
Top back support

**4-Assemble front (#19 & #20) and rear arm supports (#21 & #22) by installing the top plate onto each. Using 2- 2" screws in each**



Un-assembled

Arm supports support



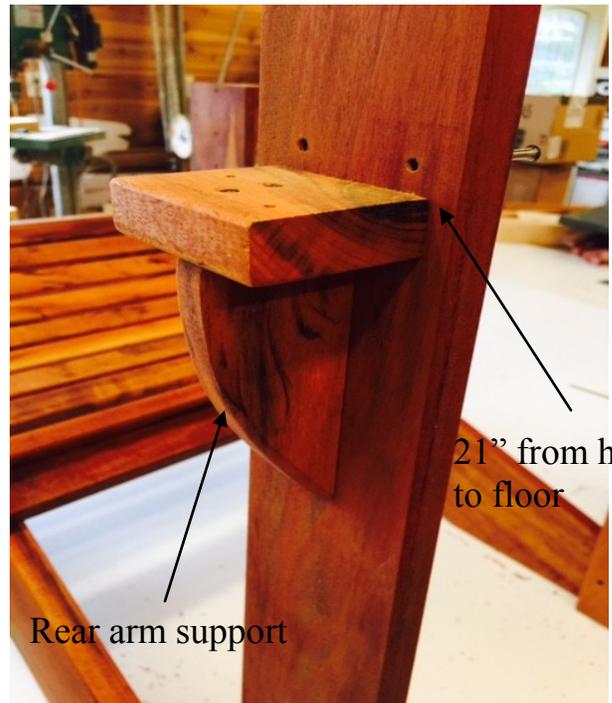
Front arm support

**5-Install front arm supports to the front legs making sure they are centered and flush with top of each leg. Use 3- 1.5" screws in each.**



Front arm support

**6-Make a mark on the outside of each back support upright at 21" from floor. This will be the top of the rear arm supports. Center the arm supports on the upright, pre-drill and fasten with 2- 1 1/2" screws.**



Rear arm support

21" from here  
to floor

**7-**Lay the arm (#11) onto the arm supports and pre-drill and install 2-2" rear screw through back uprights (#5) while making sure the rear of the arm is flush/even with the rear edge of the upright.



**8-**Attach the front of the arm to the front arm support by positioning it so there is approx 1/4" overhang to inside of the front leg . Pre-drill and install 3- 1 1/2" thru top plate of arm support and into the arm.

Install 3- 1 1/2"  
screws



**9-**Predrill and install 2- 1 1/2" screws thru rear top plate of arm support and into the arm.



**10-Lay all the skull pieces (#12-15) out with the good side facing **down** on a flat surface and the 30 degree bevel, side skull pieces layed out as shown below**



**11-Lay and center the lower back brace (#16) on to the skull pieces with the bottom edge 14 1/4" from end of skull as shown here. Pre-drill and install **ONLY** the center screw**



**12-Use a square to be sure the mid brace is perpendicular and centered on the center skull piece #12. As shown here. Pre-drill and install the re-maining center screws.**



**13-Line up all the remaining pieces so the eyes and top of skull line up. There should be approx 3/8" space in-between all skull pieces. Pre-drill and install remaining screws. The lower back brace should be positioned like this photo**

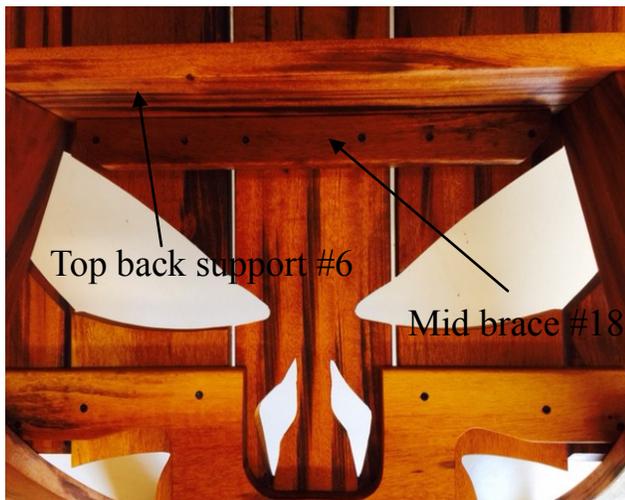


**\*\*Important-**You should have approx 1/2" from bottom of lower back support to edge of bevel

**14**-Center and Install the upper skull brace (#17) near the top of the skull- pre-drill and install 1 1/2" screws. As shown



**16**-Install the skull mid brace (#18) on the underneath the top back support. Slide the brace up tight and centered under the back support. Pre-drill and install 6- 1 1/2" thru mid brace and into skull



**17**-Install 3- 2" screws thru top back support and into mid back brace.



**15**-Lay and center the skull onto the chair. Pre-drill and install 1- 2" screw thru bottom of each arm into the skull, as shown. Making sure the skull is pulled tight to the upper back brace and sitting on each arm equally.



**18**- Pre-drill and install 4- 2" screws thru bottom rear seat slat (#3) and into the fangs or the skull, while pulling the fangs tight to the brace.



Make sure all bolts are tight and install the bolt covers (if you purchased the hardware kit from CWD) That's it! Enjoy!

Be sure to paint or finish it to keep the wood preserved. Use Messmers UV Plus/ Hardwood deck for Tigerwood Chairs

Thanks, Carolina Wood Designs  
704-577-0229