NOTICE

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NOTE: Read all directions before beginning

Carpenter's glue should be used to reinforce all joints
Set all nails and countersink screws – use wood filler as necessary to spot nails and screws before finishing wood
Dimensions shown in brackets denote millimetres
Wipe off excess glue with a wet cloth before it has time to set

Directions:

Procedure 1) – See Figure 1

Begin your project by laying out all materials as illustrated in Figure 1 (Material Layout). Using a pencil, measuring tape and straightedge, (along with a protractor or miter gauge) draw all the parts exactly as shown using the dimensions and shapes illustrated in Figure 2 (Cutting Diagram). Be sure to include the part numbers designations for each piece as well. Drill all holes with a 5/16" drill bit to allow for easier insertion of the threaded rods. For ease of finishing, we suggest that you do all final sanding and staining or oiling before starting the assembly procedure. We don't recommend paint of any type for this project, as stain or oil is easy to touch up in a year or so without disassembly of the chair.

Procedure 2) – See Figure 3

Starting with one 12" length of threaded rod, install one nut on one end of the rod, along with a washer. (Use of work gloves is recommended to protect your hands) Thread on pieces A, B & C as illustrated in Figure 3. Make sure the slanted ends of pieces B, are in the same direction. Install a second washer and nut on the rod and thread down so that all pieces are still a bit loose. Starting with another 12" length of rod, assemble in a similar manner, pieces E & D as illustrated as well in Figure 3. At this point, make sure that the tapered ends of pieces E are all slanting the same way (either way works). Install a second washer and nut on the end of this rod also.

Procedure 3) – See Figure 3

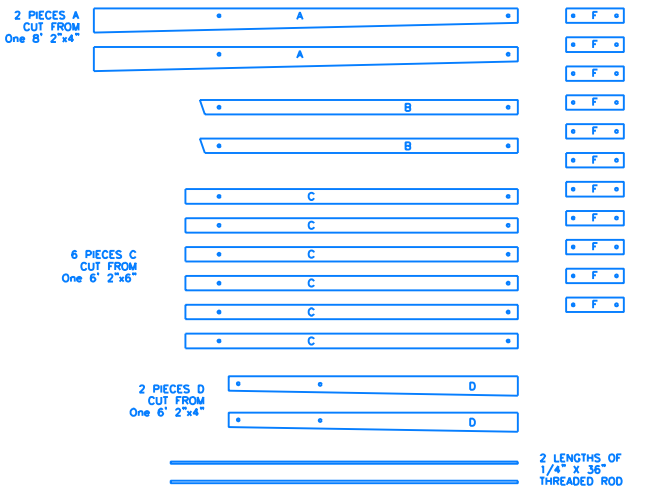
Now comes the tricky part, to assemble the remaining pieces F. You will first need to bend the 20" lengths of rod slightly and gently to attain a moderate curve of approximately 3' radius. Once this has been done it is merely a matter of threading one rod through the holes in pieces A, B & C, and inserting pieces F alternating between the longer members. If you suspend the long pieces, so that they hang vertically, then all pieces, A,B,C & E, will hang straight. Once all pieces are installed insert a nut and washer on both ends of the rod, but only loosely for now.

Procedure 4) – See Figure 3

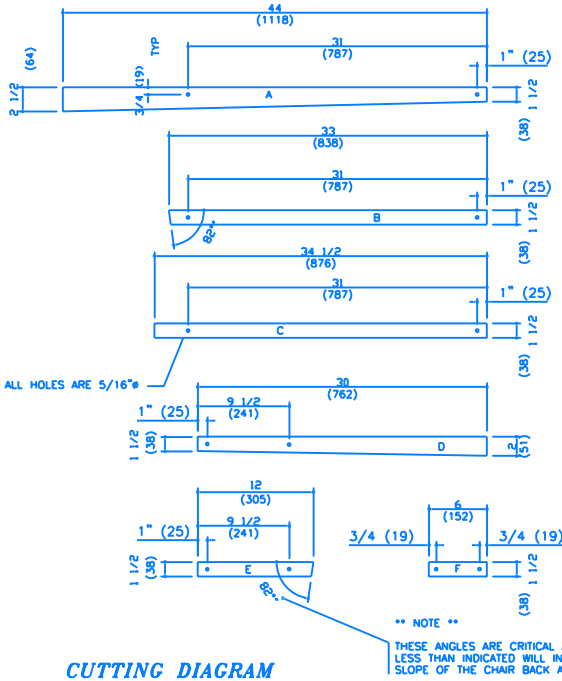
Now that you have pieces F installed in the top section, you will need to bend them up so that they are all in line. It is important to note that the tapered ends of pieces B and E are in the correct direction. If you lay all pieces flat on the floor, the taper is such that the longest side is on top. To complete the assembly, merely thread the second 20" rod through all the remaining holes making sure to alternate pieces F with the seat parts. The rod will have to be bent to do this, however if you hold the seat portion vertical it will be flat as will pieces F, so that you only have to work with one curve at a time.

Procedure 5) – See Figure 4

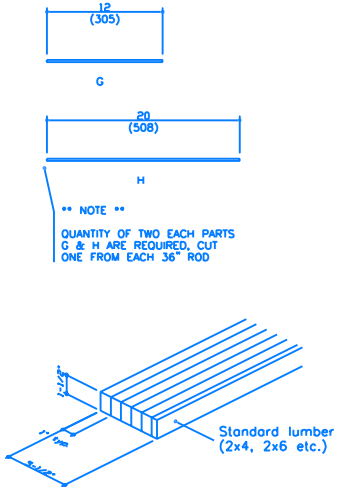
All the nuts may be tightened up, but do not make them too snug, as this chair is meant to flex, and fold up for storage. Once you are satisfied with your assembly, trim the threaded rods so that you can install an acorn nut on the ends. This will prevent someone from catching their clothing and such on the ends.

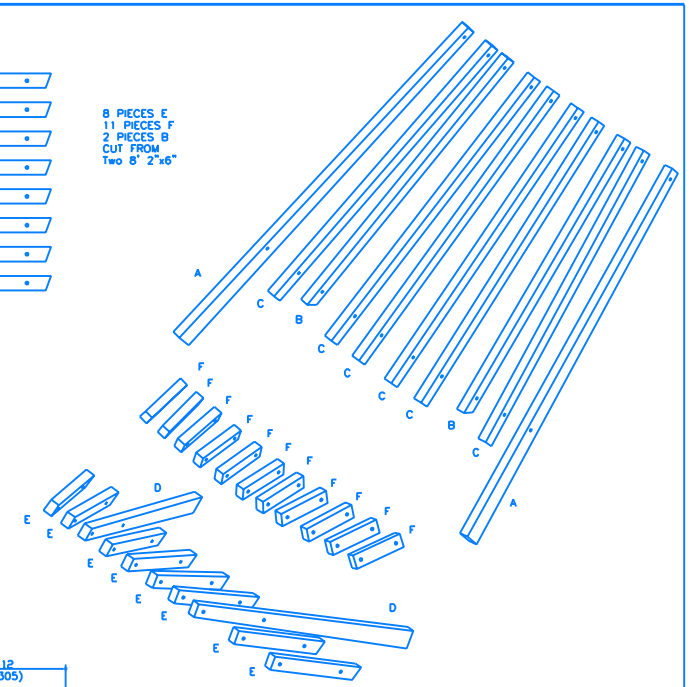


MATERIAL LAYOUT
FIGURE 1

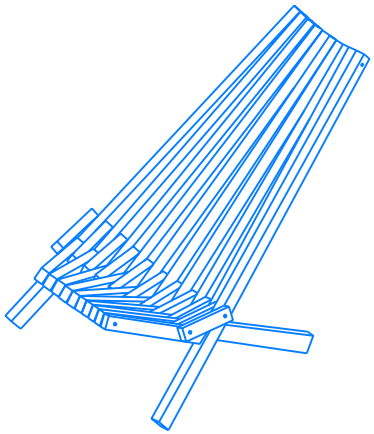


CUTTING DIAGRAM
FIGURE 2





EXPLODED VIEW
FIGURE 3



COMPLETED PROJECT
FIGURE 4

FOLDING BEACH CHAIR – Project #215

MATERIALS LIST

One 6' 2"x4"
One 8' 2"x4"
Two 8' 2"x6"
One 6' 2"x6"

MATERIALS LIST

Two 36" lengths 1/4" Dia. Threaded Rod
Eight 1/4" Hex Nuts
Eight 1/4" Plain Washers
Eight 1/4" Acorn Nuts

TOOLS

Tablesaw
Pencil, Tape, and Square
Power or Hand Drill
5/16" Drill Bit
Wood Plane
Two 7/16" Wrenches

TOOLS

Wood Rasp
Paint Brush
Power Sander (optional)
Protractor and Straight Edge
Hammer
Sandpaper