



Sofa Desk

PROJECT PLANS

Skill Level: Intermediate

Materials

Item	Qty
Walnut Europly	4
Leather Cushions	2
1/2" Diameter Dowel	1
Wood Finish	1
Pocket Hole Tool	1
Clamps	4-5
Wood Filler	1

Toolbox



18V ONE+HP
Brushless
1/2" Drill/
Driver



18V ONE+ 5"
Random Orbit
Sander



18V ONE+ HP
Brushless 7-1/4"
Circular Saw



18V ONE+
HP Brushless
Orbital
Jigsaw



18V ONE+
Compact
Router



18V ONE+
1/2"x18" Belt
Sander

Project Instructions

Step 1

Trace MDF templates on top of the plywood, splitting the template into a few pieces to reduce material waste.

Step 2

Drill two holes on the inside of the outline to allow easier cutting with the jigsaw.

Step 3

Cut along the traced lines with the jig saw, cutting 1/8-1/16th of an inch outside of the outlines so that the lines can be refined.

Step 4

Attach the mdf template to the plywood using small screws.

Project Instructions

Step 5

Use the router with the flush trim bit to trim the plywood to the exact size without using a CNC tool.

Step 6

Drill 1/2" Holes across the cutout plywood piece and remove the screws to detach the mdf template from the plywood.

Step 7

Attach two layers of the plywood together using wood glue and inserting 1/2" dowels into the holes made in the previous step. Trim the dowels so that they lay flush. Clamp the pieces together while the wood glue dries.

Step 8

Glue together the complex joints and corner pieces using wood glue and allow the glue to cure. Attach these pieces to the straight pieces that go in between with wood glue, building the loop that goes under the cushion first.

Step 9

Once both of the pieces have been built, clamp everything together using spring clamps and weight for stability.

Step 10

Once everything has cured, apply wood putty where there are any gaps in between the joints. Sand all over to finish once the wood putty has dried down. Use the palm router to round out all of the corners.

Step 11

Use a mini belt sander to sand all the inside corners and edges.

Step 12

Use a circular saw to cut linear supports that will go under the cushions and desk. Use the router to the round over the edges to match the other pieces.

Project Instructions

Step 13

On the short pieces, drill pocket holes.

Step 14

Use corner clamps to secure the short pieces to the long pieces, then screw them together using the pocket holes.

Step 15

Use a circular saw to cut pieces from a full piece of plywood to use for the seat back rest and desk.

Step 16

Use a cup to trace quarter circles on the edges of these pieces, then use a jigsaw to cut the quarter circles out. Smooth out the edges using a sander.

Step 17

Use a router to round out the edges.

Step 18

Sand all of the pieces with a high-grit sand paper to prep for wood finishing coat.

Step 19

Wipe all of the dust off of the wood, then apply the wood finish to all of the wood pieces.

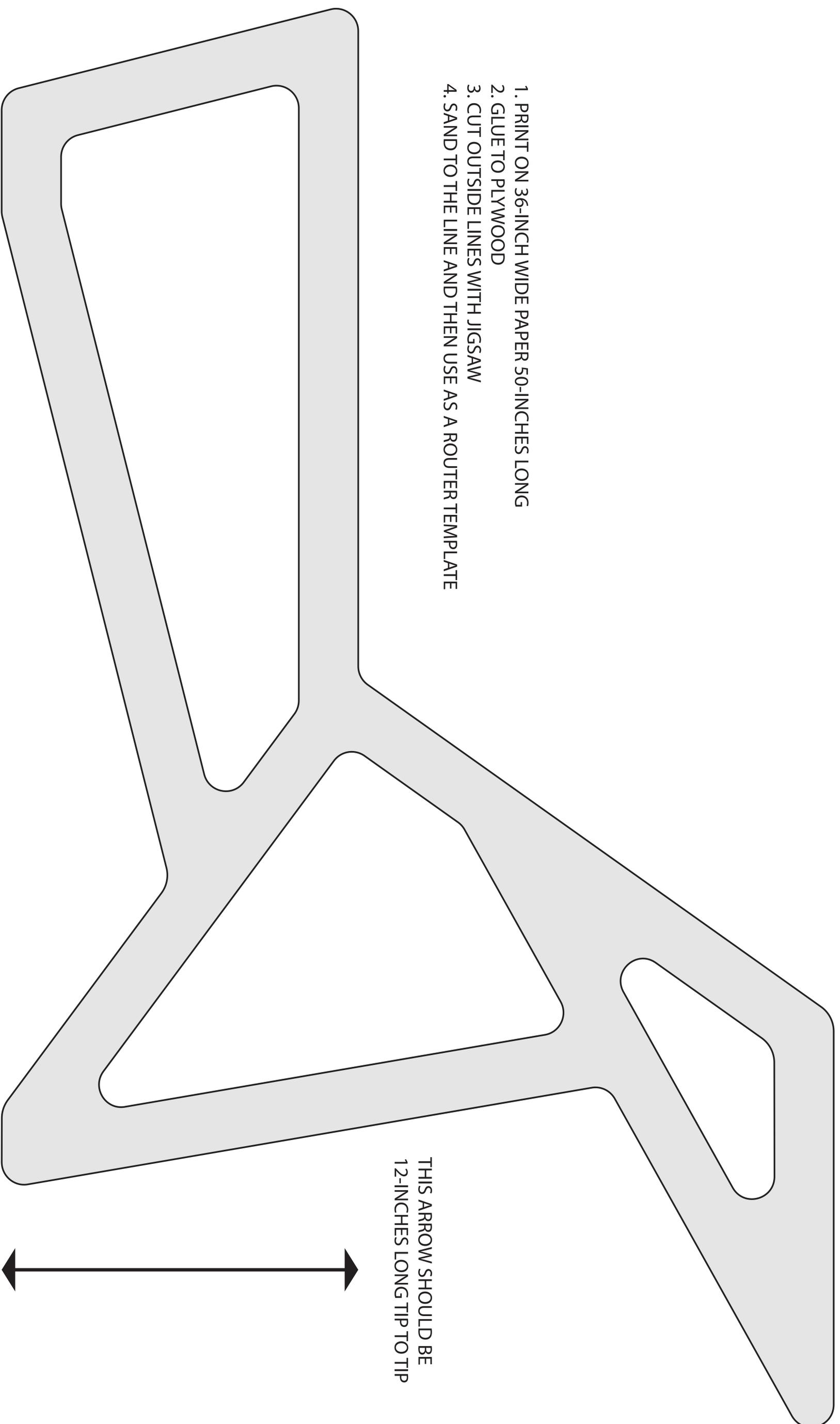
Step 20

Attach the support frame together under the seat using screws and clamps.

Step 21

Screw on the seat panel, back rest, desk support, and desktop using screws and a tape measure to ensure everything is lined up. Place leather cushions on the back rest and seat.

1. PRINT ON 36-INCH WIDE PAPER 50-INCHES LONG
2. GLUE TO PLYWOOD
3. CUT OUTSIDE LINES WITH JIGSAW
4. SAND TO THE LINE AND THEN USE AS A ROUTER TEMPLATE



THIS ARROW SHOULD BE
12-INCHES LONG TIP TO TIP