Router Table Fence Plans

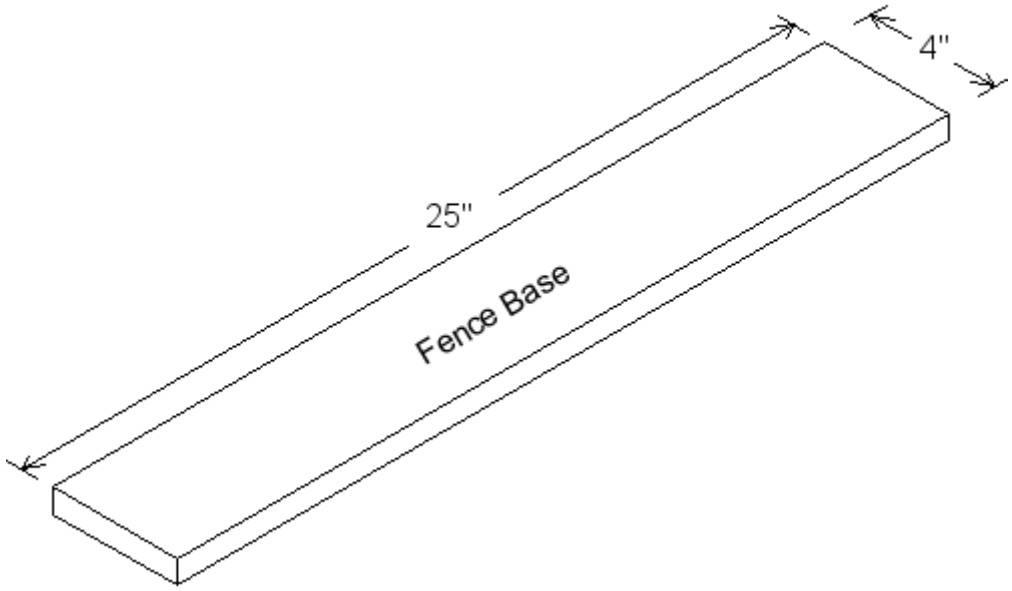
Please read and follow all tool manufacturers safety and operating instructions before operating equipment.
Always wear eye and hearing protection.

Materials List for the Fence

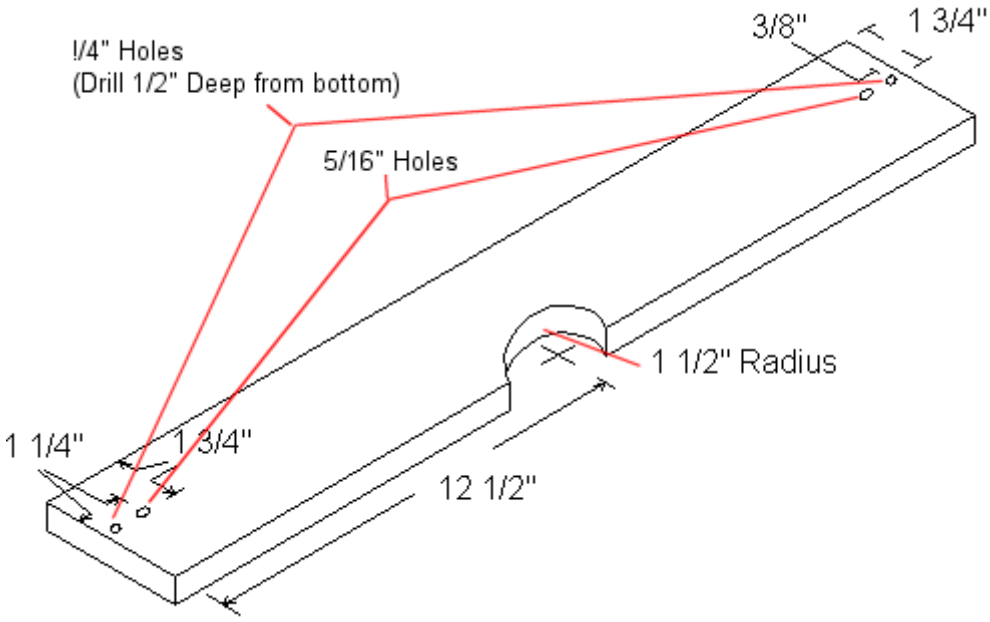
Qty	Item	Material
1	Base	25" by 4" from 3/4" stock
2	Stationary Faces	10 1/2" by 3" from 3/4" stock
2	Sliding Fence	12" by 4" by 1" thick countertop material
4	Support Block	2 1/2" by 2 1/2" by 1" thick
1	Vacuum Box Rear	6" by 2 1/2" from 3/4" stock
1	Vacuum Box Top	6" by 2 7/8" from 3/4" stock
2	EZ- Clamp Side	1 1/2" by 1" from 3/4" stock
2	EZ- Clamp Bottom	3" by 1 1/2" from 3/4" stock
1	Bit Safety Guard	- item Number 67157

Parts Drawings

Base



Begin making the base by cutting a piece 25" long by 4" wide from 3/4" stock.



Drill two 5/16" holes completely through the base for the EZ Clamp Bolts. Drill two 1/4" holes 1/2" deep for the alignment dowels. These holes for the alignment

are only 1/2" deep and must be drilled from the botom surface of the base. Also, cut a half circle with a 1 1/2" radius as shown. This provides clearance for the router bit

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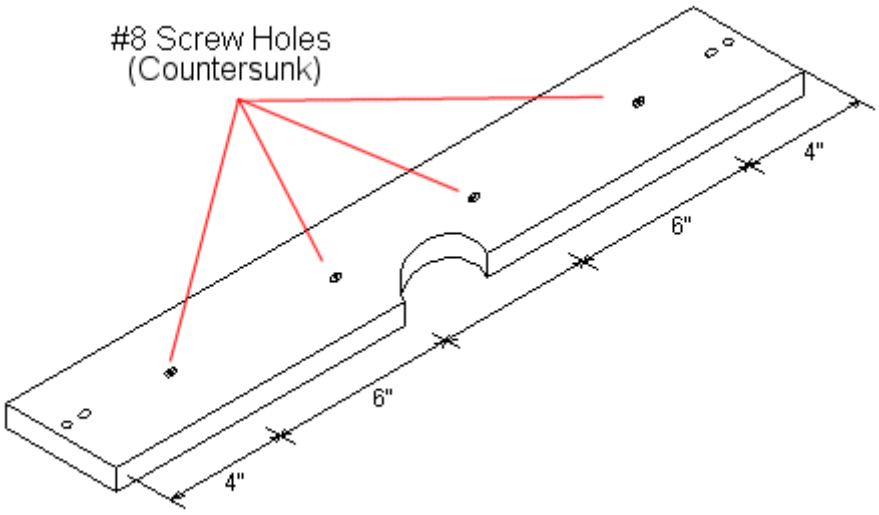
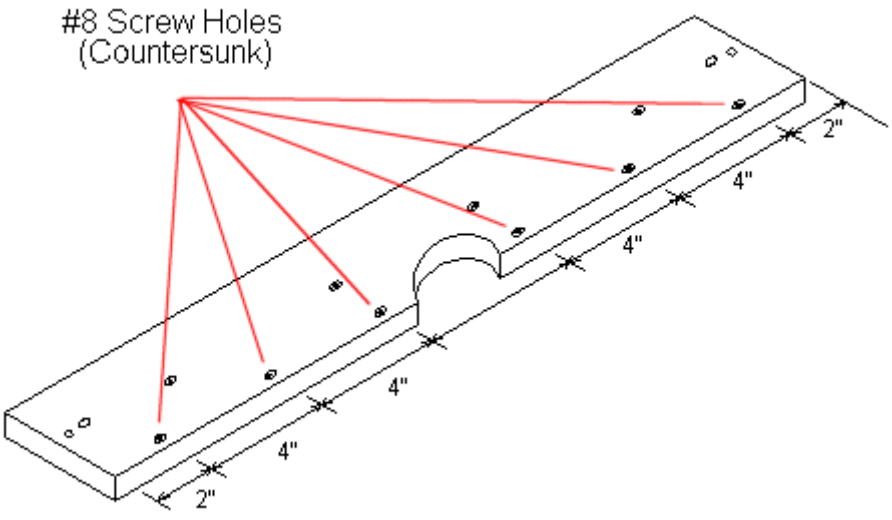
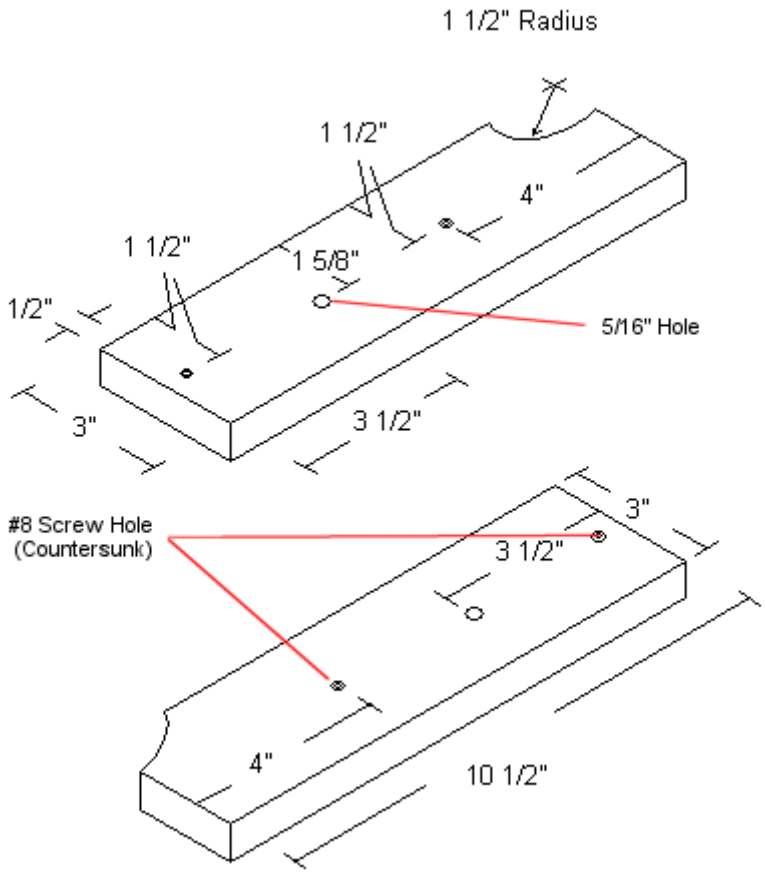


On the bottom surface of the base, drill 4 holes for # 8 screws and countersink them. These are for attaching the support blocks.



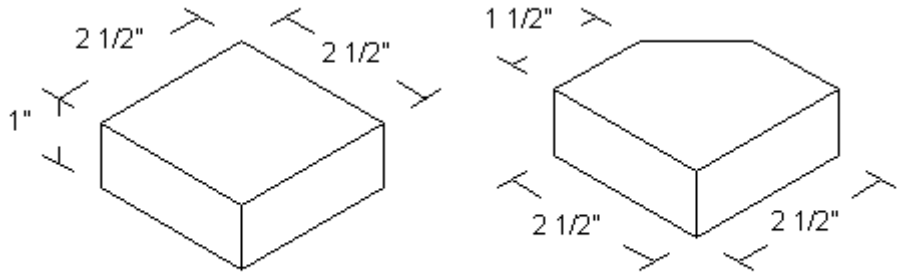
Next, drill 6 holes for # 8 screws and countersink them (also on the bottom surface). These are for attaching the fence faces.

Stationary Faces



Cut two pieces for the faces and drill the holes as shown as shown. The countersunk screw holes are for attaching the faces to the support blocks. The 5/16" holes are for the T-Track Bolts.
Cut a 1/4 circle with 1 1/2" radius at the corners as shown.

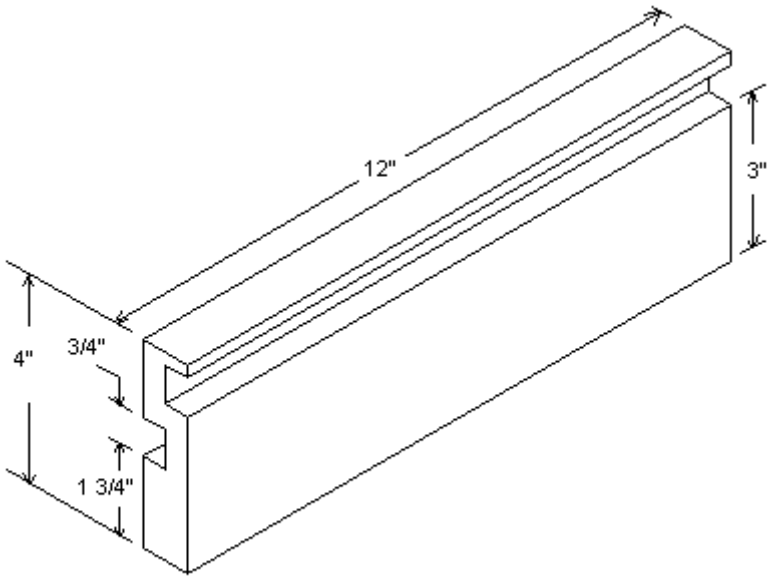
Fence Support Blocks



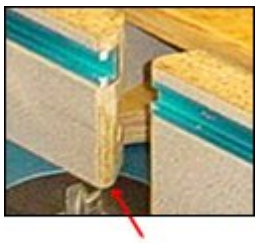
2 Required 2 Required

Cut four Support Blocks as shown above. Two square ones and two with corners cut off. These are for supporting the stationary fences and they serve as the sides for the vacuum box.

Sliding Fence Plates



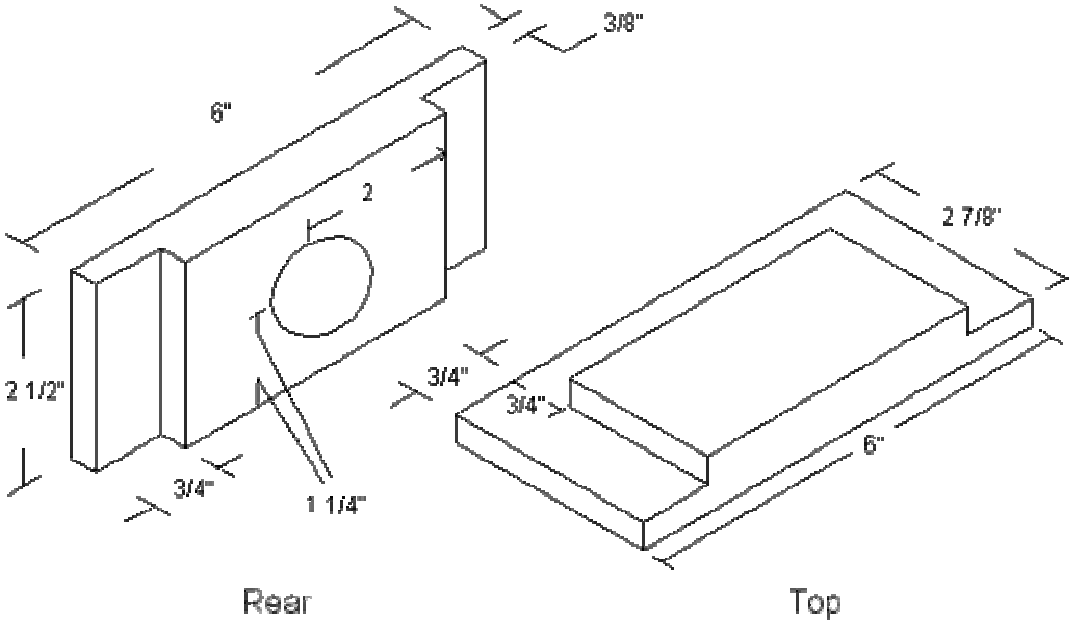
Make two sliding faces as shown. The the 3/4" wide slots need to be 1/2" deep. these are for the T-Track.



Rounded Edge

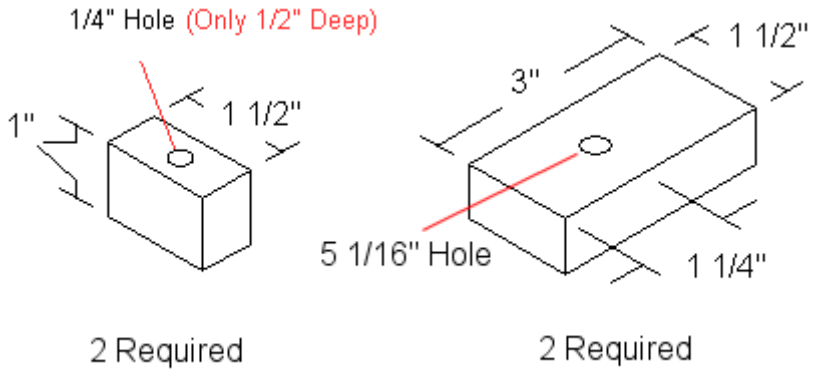
For the prototype, I used my belt sander to round the edges of the sliding faces as shown above. This helps keep the workpiece from hanging up on the corners.

Vacuum Box



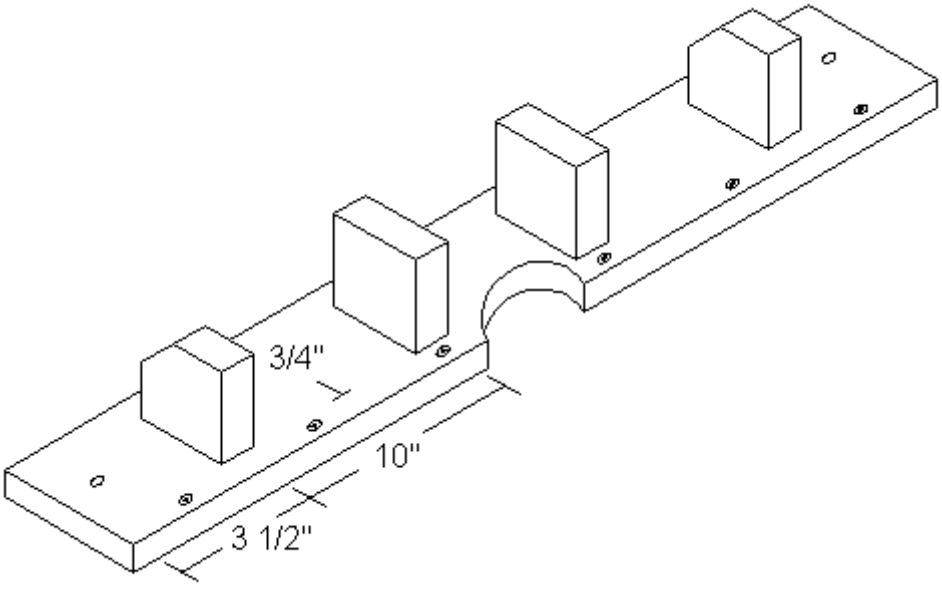
Make the rear and top pieces for the vacuum box as shown. My shop vacuum has a 1 1/4" diameter end so I cut a 1 1/4" hole centered in the vacuum rear piece. The size of the hole depends on you vacuum hose end.

EZ Mount Clamp Blocks

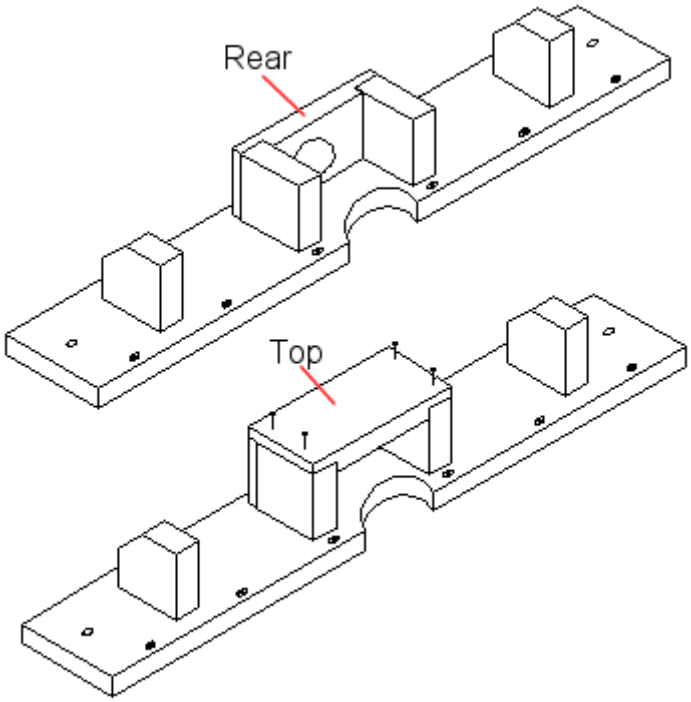


Make the pieces for the EZ-Mount Clamps. The 5/16" hole in the long piece is for the 3 1/2" by 5/16" carriage bolt that provides the clamping force. Drill this hole completely through the workpiece.
The 1/4" hole in the small piece is for the alignment dowel pin. This hole is centered end to end and side to side. Note: This dowel hole is only 1/2" deep.

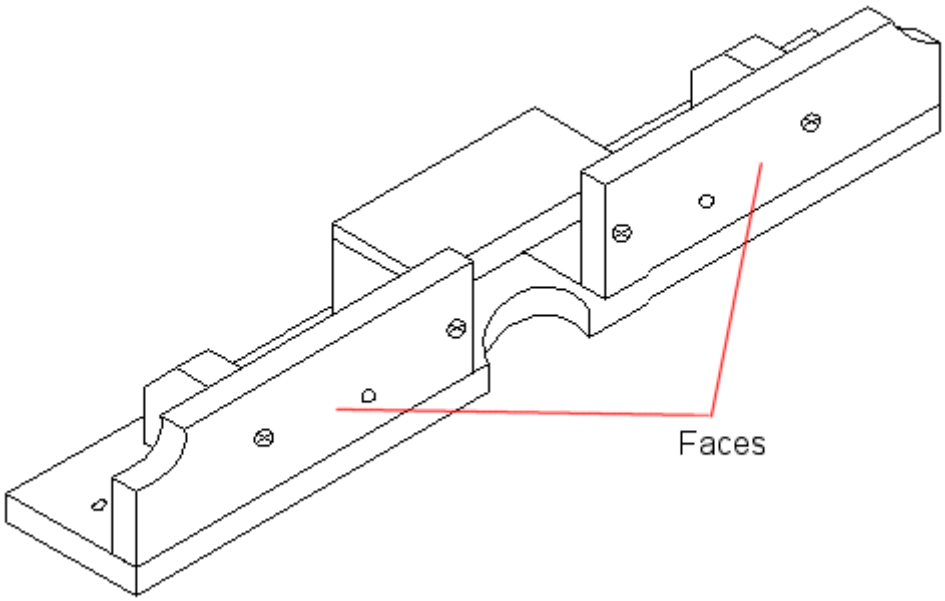
Assembly Instructions



Attach the support blocks to the base as shown using 1 1/2" #8 flathead screws coming up from the bottom.The front of the support blocks are 3/4" from the front of the base.

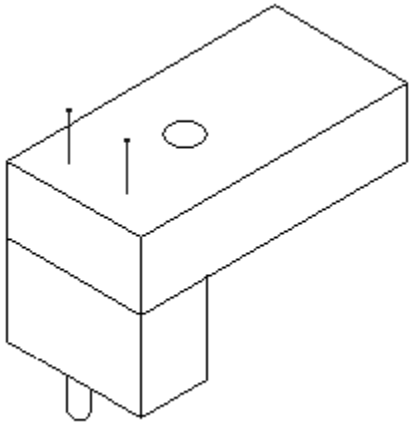


Attach the rear and top of the vacuum box with 1" finishing nails as shown. Be sure to lay the assembly so the center support blocks are supported before driving the nails for the back piece.



Attach the stationary fence faces to the base and support blocks with #8 1/ 1/2" long flathead screws. Two in the front as shown above. Insert screws fom the

bottom through the holes already drilled in the base. I recommend you predrill the holes for the screws in the support blocks and fence faces.



Assemble the clamps with 1 1/2" finishing nails and a little glue as shown. I recommend predrilling the holes to prevent splitting. Note: The 1/4" dowel pin hole goes on the bottom.
Next, apply a little glue and insert the 3/4" long dowel pin.
Note: The dowel pin keeps the clamp from rotating while you tighten the knob.

The above image shows the finished clamp and Knob. Use a 5/16" in by 3 1/2" carriage bolt. flat washer, and T-Track knob to ptovide the clamping force.