

FOLDING PICNIC TABLE AND BENCHES:

What You'll Need

Materials

- hinges 2410-698 2 packages (2 per pack)
- saw horse brackets 1080-038 2 packages (2 per pack)
- glue Titebond III 2020-012
- #8 x 1 1/4" particle board screws 2129-265 (100 pack)
- #8 x 2 1/2" wood screws 2174-596 (100 pack)
- 1/2" x 20' rope 5461-715

Lumber

- 8/4 x 12 x 6' pine - 2 boards
- 8/4 x 8 x 5' pine - 5 boards
- 2 x 4 x 8' spruce - 9 boards

Tools

- table saw 1346-672
- orbital sander 1262-155
- planer 1260-210
- drill 1239-000
- 1/8" bit 1245-423 (drill bit set)
- 3/4" forstner bit 1213-724 (bit set)
- tape measure 1049-127
- safety goggles 1310-012
- filter mask 1635-057
- 3/4" pipe clamps (3) 1022-772

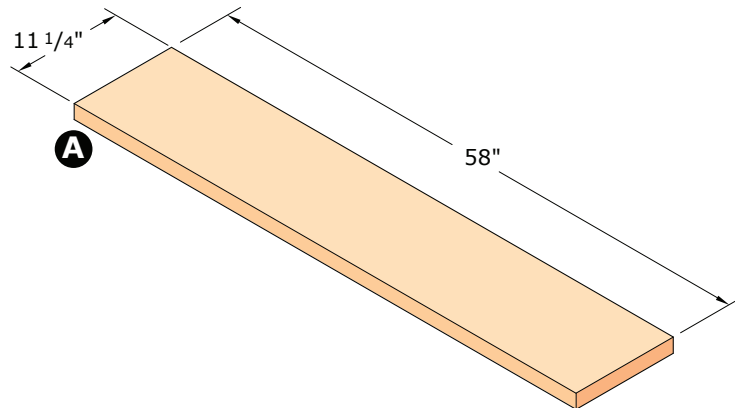
Parts:

- A** bench seats - pine - (2) 1 5/8" x 11 1/4" x 58"
- B** bench legs - spruce - (8) 1 1/2" x 3 1/2" x 19 1/2"
- C** cross rails for bench legs - spruce - (4) 1 1/2" x 3 1/2" x 47"
- D** brackets for bench legs - pine - (4) 1 5/8" x 5" x 10" (see dwg)
- E** tabletop boards - pine - (4) 1 5/8" x 7 1/4" x 60"
- F** tongue strips - pine - (3) 1/4" x 1 5/8" x 60"
- G** table braces - pine - (4) 1 5/8" x 1 5/8" x 28 1/2" (see dwg)
- H** table legs - spruce - (8) 1 1/2" x 3 1/2" x 27" (see dwg)
- I** cross rails for table legs - spruce - (4) 1 1/2" x 3 1/2" x 26 1/2" (see dwg)
- J** top rail for leg assemblies - spruce - (2) 1 1/2" x 3 1/2" x 28 1/2" (see dwg)

BENCHES

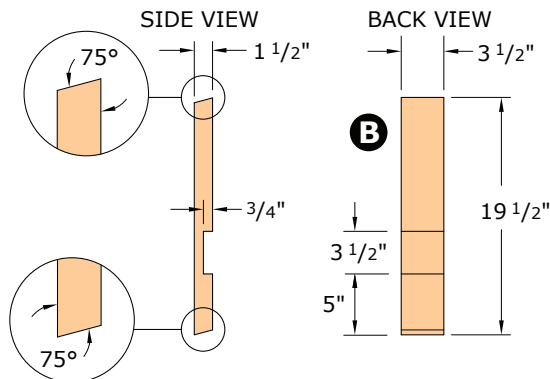
BENCH SEATS

Cut the two bench seats to size.

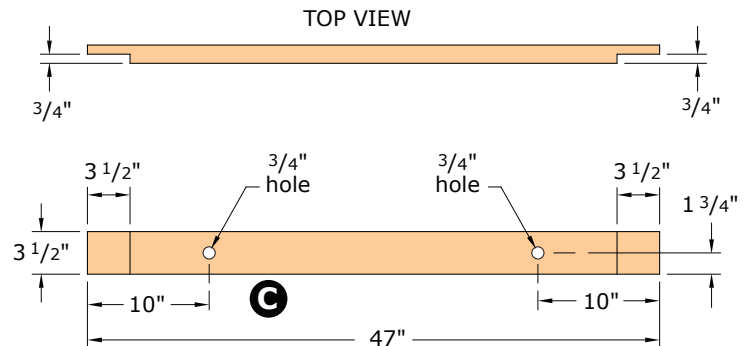


Cut lap joints into the 8 bench legs and the 4 cross rails.

BENCH LEGS



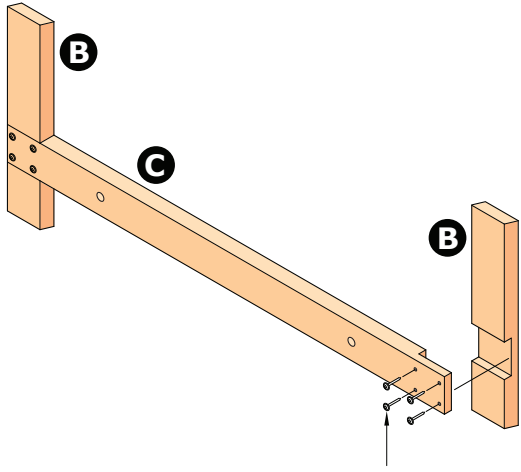
CROSS RAILS



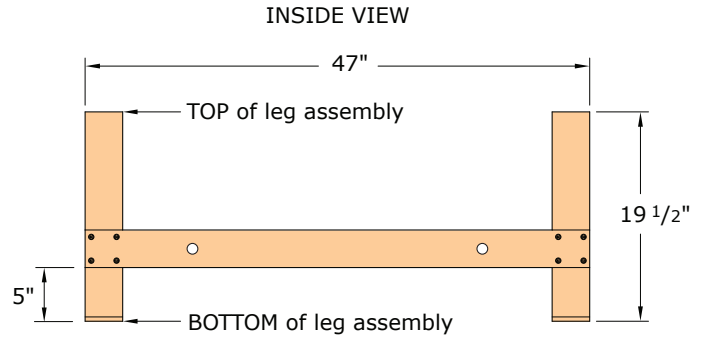
BENCH LEG ASSEMBLIES

Fasten the cross rails to the legs with four 1 1/4" particle board screws. For the benches, pilot drill for all screws to prevent the wood from splitting.

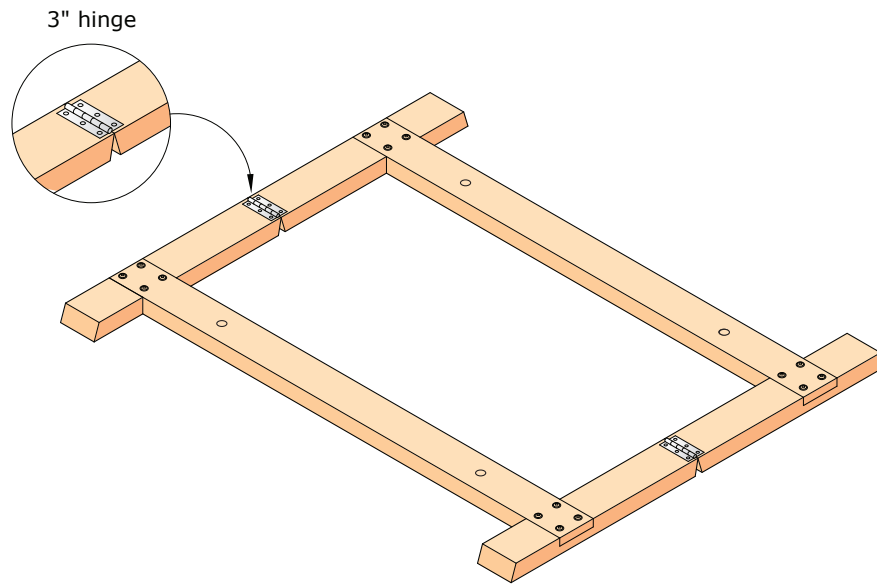
Make 4 leg assemblies.



1 1/4" particle board screws.

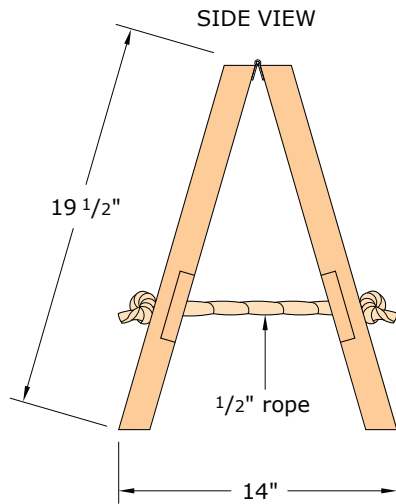


Fasten the leg assemblies to each other at the tops (on the insides of the legs) using 3" hinges.



ROPE SUPPORTS

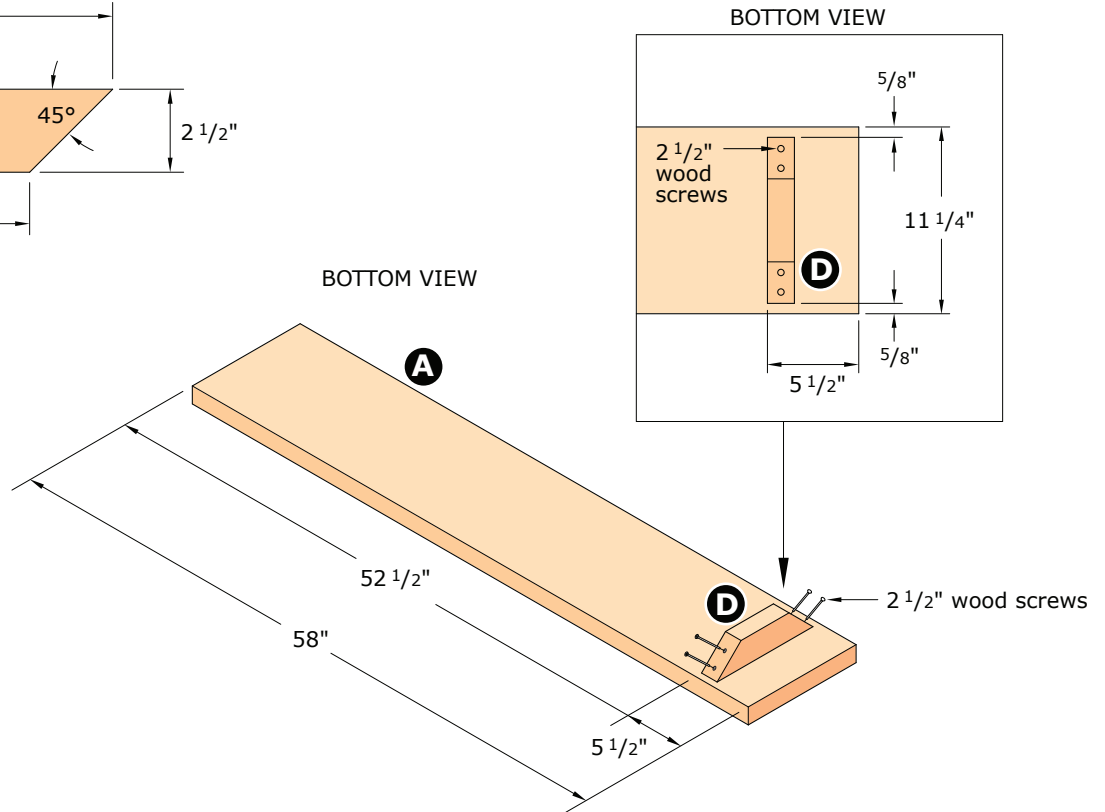
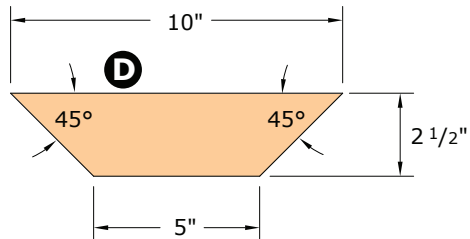
Position the legs 14" apart from outside of leg to outside of leg.
Now thread some 1/2" rope through the holes in the cross rails.
Tie tight knots at both ends.
This will prevent the legs from splaying apart.



BENCH BRACKETS

Place one bracket on the underside of each bench seat according to the drawing.

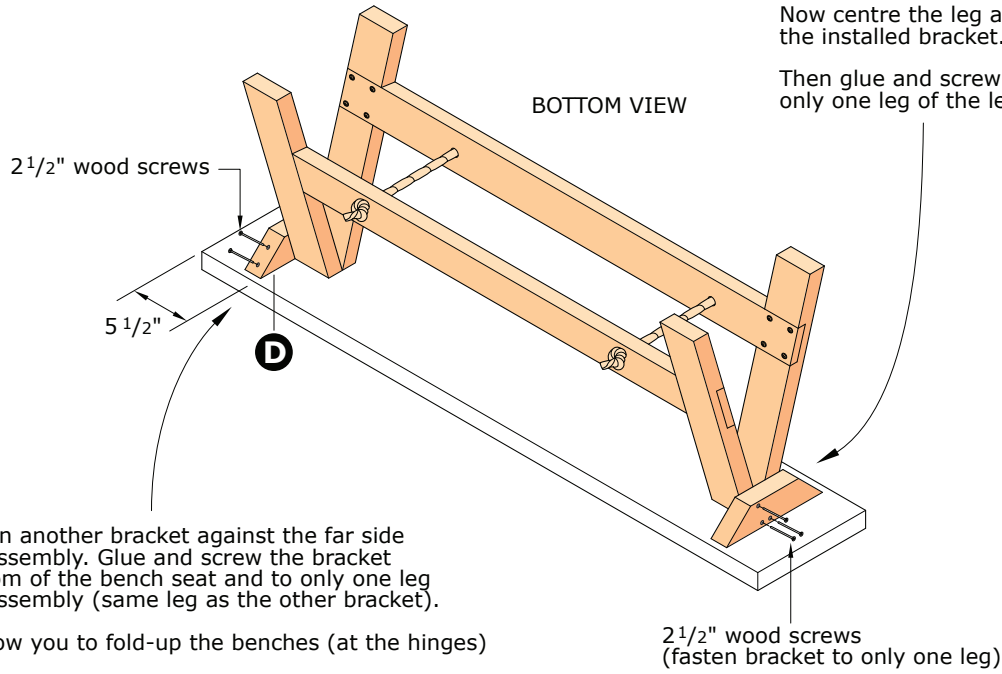
Now glue and screw the brackets to the bench seats with 2 1/2" wood screws.



BENCH ASSEMBLY

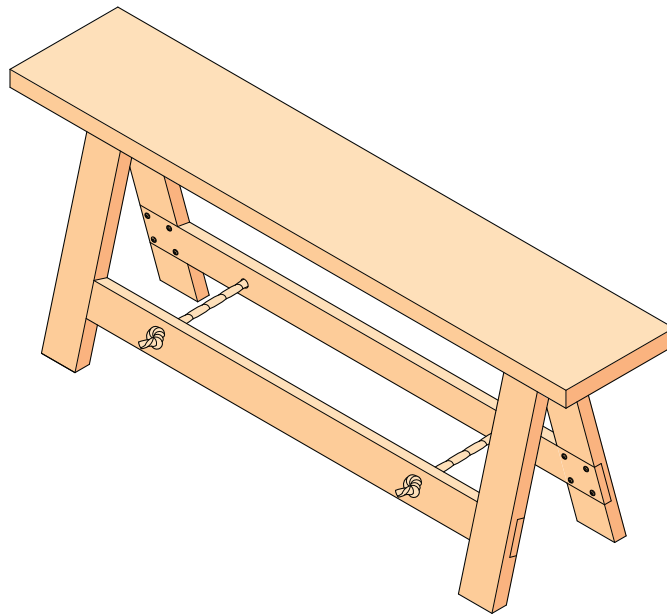
Now centre the leg assembly against the installed bracket.

Then glue and screw the bracket to only one leg of the leg assembly.



Now position another bracket against the far side of the leg assembly. Glue and screw the bracket to the bottom of the bench seat and to only one leg of the leg assembly (same leg as the other bracket).

This will allow you to fold-up the benches (at the hinges) for storage.



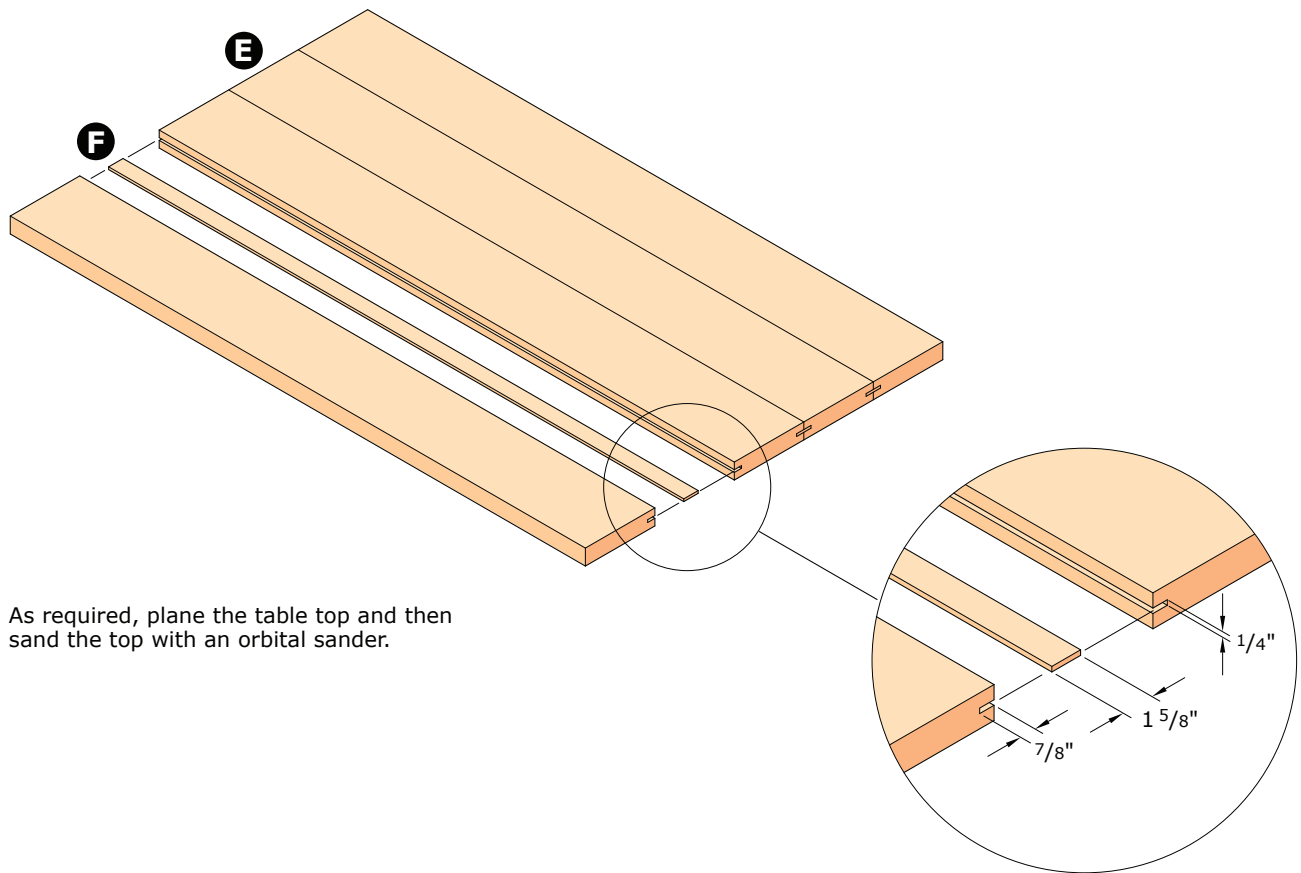
TABLE

TABLE TOP ASSEMBLY

Using a router or a table saw, cut a $\frac{1}{4}$ " groove centred along the joining edges of the four table top boards.

Cut a loose tongue to fit into the grooves in the boards.

Glue up the table top boards and clamp them for 24 hours.



As required, plane the table top and then sand the top with an orbital sander.

TABLE BRACES

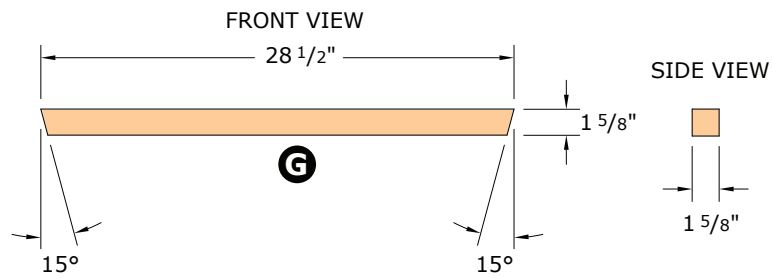
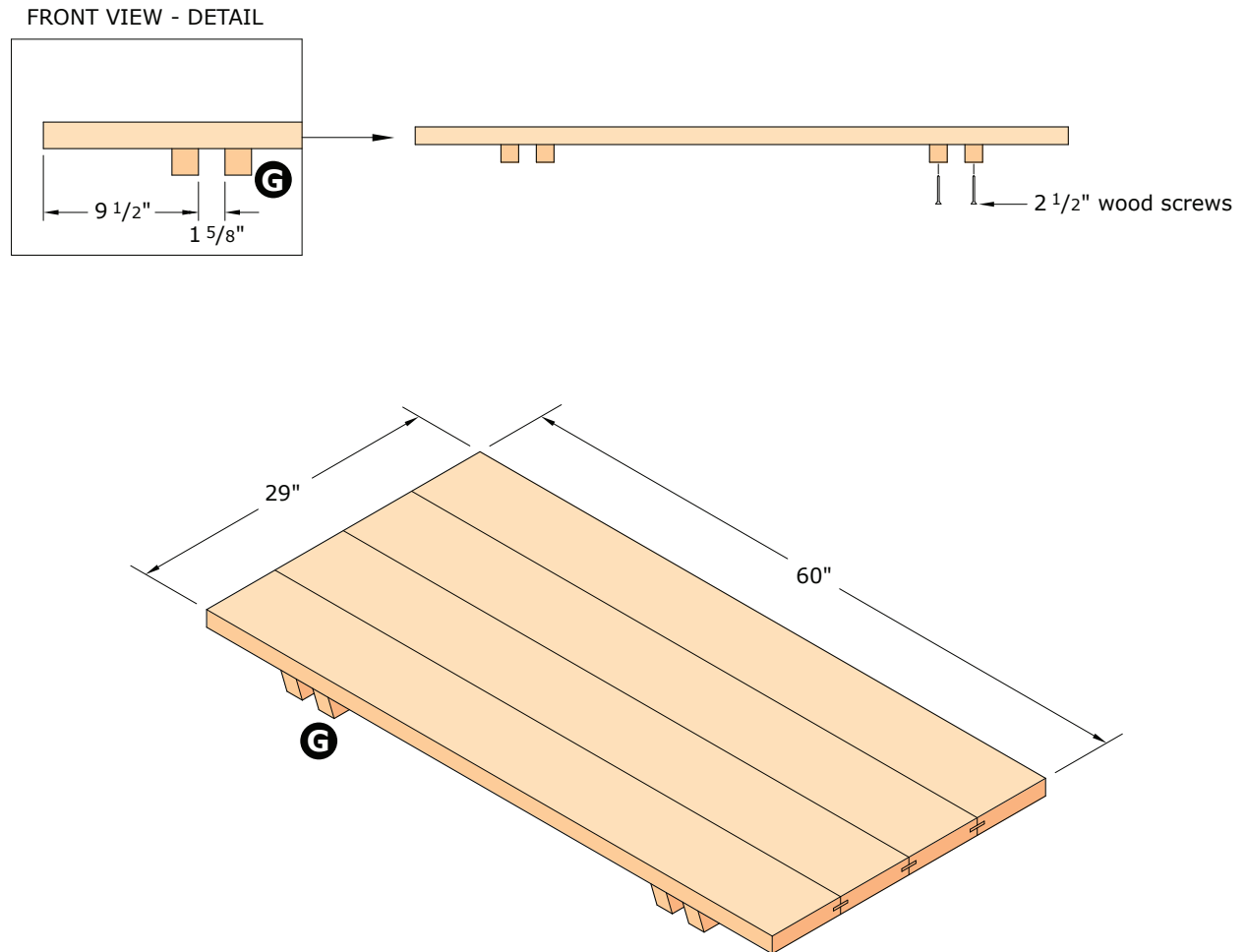


TABLE BRACES

Fasten each brace to the underside of the table top with 4 screws.

Countersink the screw heads $\frac{1}{4}$ ".



Cut lap joints into the 8 table legs and the 4 cross rails.

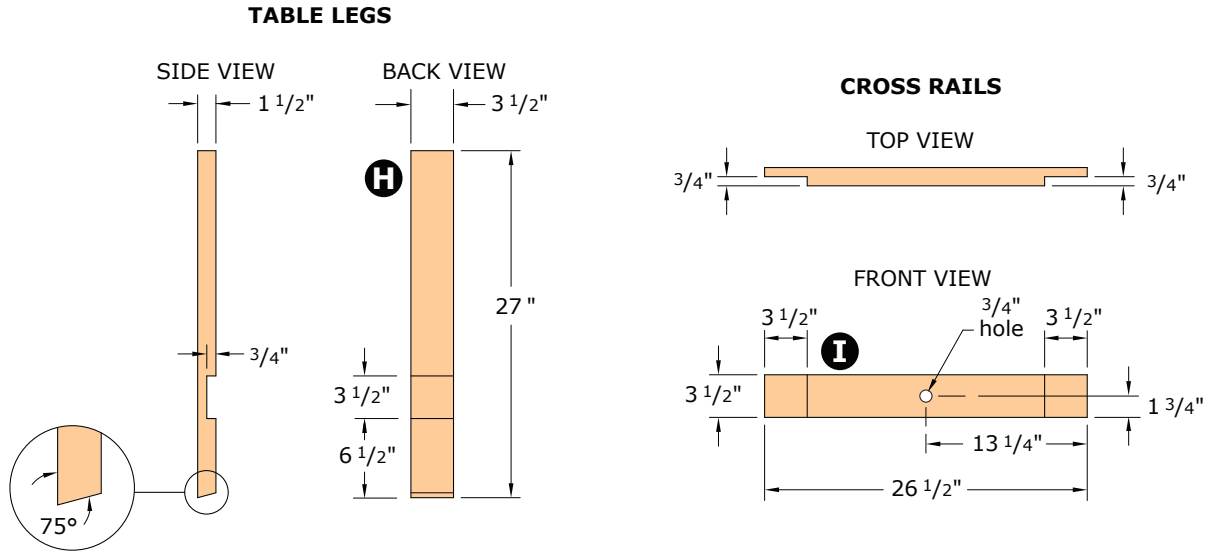
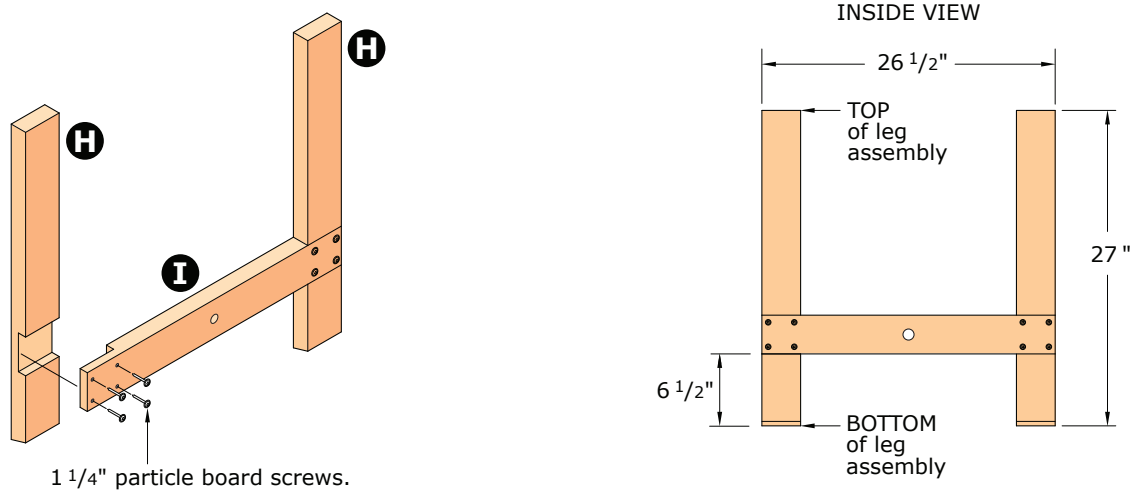


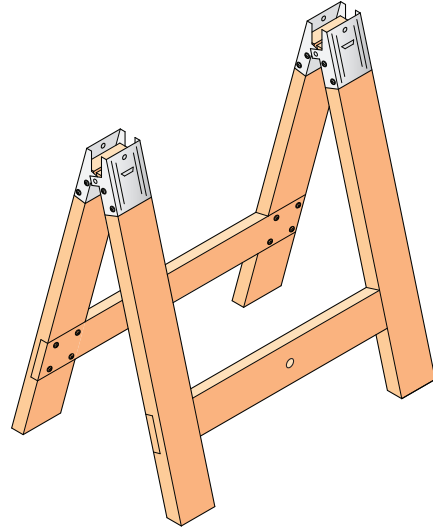
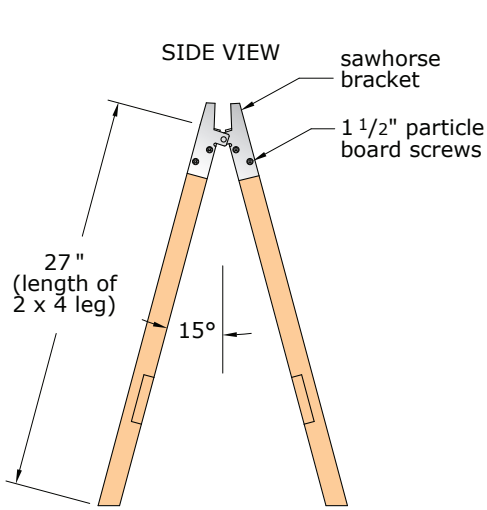
TABLE LEG ASSEMBLIES

Fasten the cross rails to the legs with four 1 1/4" particle board screws.

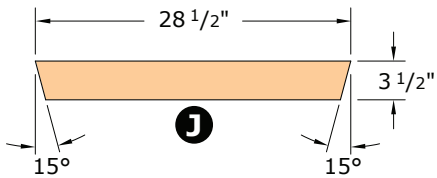
Make 4 leg assemblies.



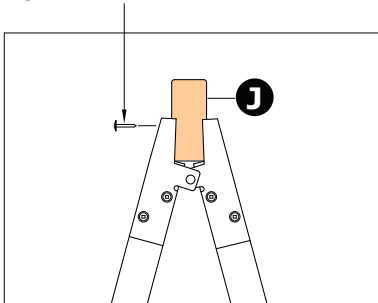
Insert the tops of the 8 legs into the 4 sawhorse brackets.
 Now, fasten each leg to the brackets with 1 1/2" particle board screws.



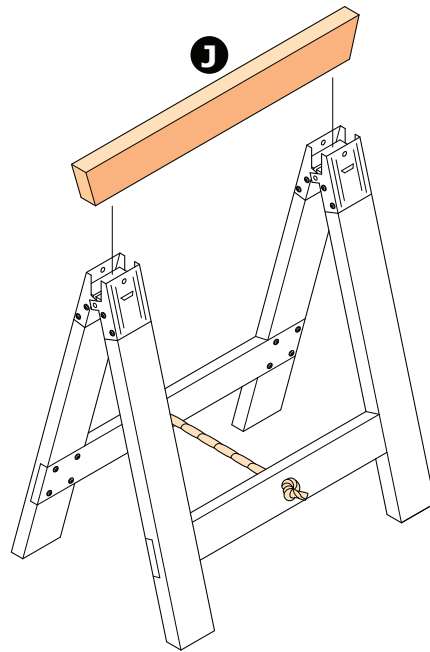
TOP RAIL & ROPE SUPPORTS



Fasten the top rail to the sawhorse bracket from one side only so that the leg assemblies can be folded closed.



Insert the top rail firmly into the tops of the brackets. Centre the rail on the brackets.



After the top rail is in place, thread some 1/2" rope through the holes in the cross rails. Tie tight knots at both ends. This will prevent the legs from splaying apart.

TABLE ASSEMBLY

Lift the table top onto the leg assemblies.
Position the top rails of the leg assemblies
between the braces on the underside of
the table top.

The table top can be removed and the leg
assemblies can be folded closed for storage.

