

or narrow snow grooves, you may want to move these screw holes slightly so the countersunk screw heads are completely outside the grooves.

6. Clamp the block to the ski and drill screw pilot holes ($3/32$ ") in the block. Apply glue to each block, in its proper location, in turn, and screw onto ski using #10 screws. Done properly, when the ski is flattened, there should be a straight line of block tops, 6" off the floor. Purists will use a Ptex candle and cover the screws. Others will use paraffin. Some will leave them bare. Set both runner assemblies aside.
7. Bottom Deck Assembly. Take five floor cross pieces (C) and two floor bolt rails (B). Mark cross pieces (C) $3/4$ " in from each end. Place bolt rails (B) vertically on the floor so that they are under cross pieces, $3/4$ " in from each end and space the cross pieces so that the back edge of the cross pieces are at 0", 11.5", 23", 34.5", and 45.5" from an end of the bolt rail. Square the pieces. Glue and screw into place. $3/4$ " of each cross piece should project beyond the bolt rails.
8. Take four floor boards (D). With the outer two parallel to and over the bolt rails (B) ($3/4$ " in from the end of the cross piece), place the floor boards in place and glue and screw. The floor boards will be about $3\ 1/2$ " apart. Set aside bottom deck assembly.
9. Side Assembly. Do twice to make a left and right side. For each side, take a side top (E), a side Nr 1 upright (F), Nr 2 upright (G), Nr 3 upright (H), Nr 4 upright (I), Nr 5 upright (J) and a side bolt rail (K). Place the uprights in order, parallel to each other, and spaced like the bottom cross pieces (0", 11.5", 23", 34.5", and 45.5" from an end of the bolt rail) with the bolt rail (K) on top, 5" from the ends. Make square and glue and screw into place. (If you are using a power miter saw, table saw or radial arm saw, a case can be made for doing all the fitting in steps 9 and 10, marking all the pieces, making all the cuts, and then assembling the pieces).
10. Turn the assembly over. Note that the bolt rail (K) and the side top (E) are on opposite sides of the uprights. Note also that they are on opposite sides for the left and right assemblies. Place a side top (E) in position. To do this, make a mark on the Nr 5 upright (J), one foot down from the top on the outer edge. Put a top corner of side top (E) at this mark and extend (E) to where the top edge of (E) aligns with the rear top corner of Nr 1 upright. Glue and screw in place. Cut off all overhangs on uprights 1 – 4 and on the side top (E). Align uprights with the outer face of attachment blocks (A) and lower until side bolt rails (K) are on top of blocks (A). Glue and screw into place. Set aside side assemblies.
11. Rear Assembly. Take the rear faces (M) and the rear bolt rails (L). Align each bolt rail $3/4$ " in from the edge of a face, at a right angle, and glue and screw in place. Take the three rear cross pieces (N). Place the M/L pieces parallel with the bolt rails (L) to the outer edge. Place a cross piece (N) at the top and bottom, square, and glue and screw into place. Place the third cross piece 20" (outer edge to outer edge) above the bottom. Square, glue and screw. Equal space and place the two rear uprights (O) and glue and screw in place. Set aside rear assembly.
12. Take side assemblies and bottom deck and put into position. Clamp bolt rails (B/K) together. Use a $9/32$ " bit to drill 6 bolt holes for $1/4$ " bolts on each side through rails B/K (see side assembly drawing). Bolt together using 2" bolts.
13. Take rear assembly. Align with top of rear side upright (J). Clamp in place. Drill three bolt holes for $1/4$ " bolts on each side and bolt in place using 2" bolts.
14. Take push bar (P). Drill holes for $1/4$ " bolts centered and 2" from each end. Using these holes as pilots, drill holes in the rear face pieces (M) which allow the push bar to