

Bill of Material

- 2 1" x 3" x 46" lumber front legs
 2 1" x 2" x 45" lumber rear legs
 1 1" x 5" x 43" lumber steps
 1 1" x 7" x 16" lumber top
 2 3/8" x 1-1/4" x 43" lumber back braces
 2 7/8" x 1-1/4" x 18" lumber shelf brackets
 1 3/8" x 7" x 13" lumber shelf
 2 2-1/4" x 6" 16 gauge sheet metal
- 2 1" x 6" 16 gauge sheet metal 1 - 1/4" x 45" round mild steel 10 - 1/4" nuts for bolts and tie rods 22 - 1/4" Washers for bolts, tie rods
- and rivets 10 - 1/4" x 1-1/4" soft iron rivets 2 - 1/4" x 2" rivets
- $4 1/4^n \times 1 1/4^n$ carriage bolts for top 1 pint raw (inseed oi)

Construction Procedure

- Select suitable clear lumber such as yellow pine or oak in the sizes as indicated in the bill of material.
- Mark out the legs very carefully, on the square setting as shown on the drawings. Saw accurately.
- 3. If dado for steps is cut on power saw, the angle is the same as square setting of 1 and 12.
- 4. After dado cuts have been made the top and legs should be fastened together by the use of the 16 gauge metal bracket or angle.
- 5. Cut steps to size and insert. Steps are held in place by the 1/4" round tie rods. After nuts are installed on tie rods the end of thread should be slightly upset.
- 6. Install back braces and shelf, be sure the rivets are not drawn up so tight that the back legs will not fold up.
- 7. Carriage bolts may be used instead of rivets in most cases. If rivets are used they should have washers installed where the rivet is braded to prevent the braded head from pulling into the wood.
- 8. Raw linseed oil finish is suitable for this type of project.