



## How to Make Your Own Beach Chair

Make a deck chair

Build a special comfy deck chair for the beach or just lounging around in the backyard. If you make some for the kids the whole family can relax together.

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Instructions are given for an adult's and a child's deck chair. Materials and measurements for the adult chair are given first; any changes for the child's chair are in brackets. If there is only one figure, it applies to both sizes.

### You need:

#### Cutting and Assembly diagrams

- Four (three) 8-foot lengths of 2- x 1-inch clear hardwood, such as birch or maple
- Four slip washers
- Four 3/8-inch lock washers
- Four 5/16-inch carriage bolts, 1-1/2-inches long, with four corresponding nuts
- Ten 1-1/2-inch wood screws
- Saw
- Hammer
- Chisel
- Plane
- **Drill with assorted bits**
- Screwdriver
- Pliers
- Set square
- Tape measure
- Sandpaper in various grades
- Varnish or wax
- Piece of sturdy fabric such as canvas, duck or denim or drapery chintz fused to both sides of sturdy fabric with Stitch Witchery or similar bonding web, 52- x 18-inches (40-3/4- x 12-1/2-inches)
- Matching thread

### To make:

**1. Fabric seat:** Press under 1/4-inch, then 1/4-inch again, along long edges of fabric. Edgestitch along both folds. Press under 1/2-inch, then 2-3/4-inches, along short edges to form sleeves for wood. Edgestitch along first fold then 1/4-inch from this. Machine-zigzag ends of stitching lines

to reinforce.

2. Mark and cut wood as follows:

- A - 2 pieces 22-inches (16-1/2-inches) long
- B - 2 pieces 48-inches (36-inches) long
- C - 2 pieces 18-inches (13-1/2-inches) long
- D - 1 piece 23-1/2-inches (18-inches) long
- E - 2 pieces 33-inches (24-3/4-inches) long
- F - 2 pieces 20-1/2-inches (15-inches) long

With pencil, label each piece.

3. Cut notches, 3/8-inch deep, in A, D and F, as shown in Cutting Diagram (cut sides of notch with saw, then chisel out flat bottom). Cut check-mark shaped grooves, 3/4-inch deep, in E pieces, as shown in Cutting Diagram. With plane, round off one long, unnotched (top) edge on one A piece and one F piece. Sand all pieces smooth. Wax or **varnish as desired**.

4. With a 3/8-inch bit, drill holes for bolts, right through and at right angles to broad sides of B, C and E, in positions shown in Assembly Diagram. With a larger bit, countersink appropriate side of each hole to accommodate bolt heads and nuts.

5. Slip rounded A piece through sleeve at top of **fabric seat**, having round edge facing up at top. Slip rounded F piece through sleeve at bottom of fabric seat, having round edge facing up at bottom.

6. On a flat surface, assemble pieces E and F into a rectangle, fitting notches in place as shown in Assembly Diagram. Drill holes (to fit screws), 1-1/2-inches deep through top ends of F pieces centred over notches. With a larger bit, countersink holes to accommodate screw heads. Screw together.

*(Note: It is important that each assembled unit lies flat, or finished chair frame will be warped. If unit does not lie flat, adjust tightness of screws to correct tension).*

Assemble pieces A and B into a rectangle, fitting notches in place as shown in Assembly Diagram, being careful that fabric is not twisted and that rounded A piece is in correct position. **Drill holes** (to fit screws), 1-1/2-inches deep through top ends of A pieces, centred over notches. Countersink holes as before. Screw together. Assemble pieces C and piece D into a U-shape, fitting notches in place as shown in Assembly Diagram. Drill holes (to fit screws), 1-1/2-inches deep through top ends of piece D centred over notches. Countersink as before. Screw together.

7. Bolt units together as shown in Assembly Diagram detail, leaving bolted joints slightly loose so chair may be folded up.

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