

Halloween Prop Replica Electric Chair Step by step illustrated guide to Reproducing a replica Electric Chair.

Please note: This is a prop, it is not Intended for use as an actual restraint for any reason. The Designer holds no liability for the misuse of the prop this manual instructs to create.

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Thank You. Have a fun and safe Halloween

Material & Equipment List



Cut List - 2x4's Set Saw for 90 degrees



2x4 Tags Print this page and cut tags apart. Adhere to your cut pieces for easy identification and quick reference.	2x4x60 -5/16" Back Left	2x4x15" Center Post 'A'	2x4x18-1/2" Base Front
2x4x60 -5/16" Back Right	2x4x15" Center Post 'B'	2x4x18-1/2" Base Back	2x4x26" Armpost Left
2x4x24" Base Left	2x4x21-1/2" Back Bottom Support	2x4x19-1/2" Arm Left	2x4x26" Armpost Right
2x4x24" Base Right	2x4x21-1/2" Back Seat Support	2x4x19-1/2" Arm Right	2x4x12" Seat Support Front
2x4x I 2" Leg Brace Support Horizontal	2x4x7" Short Leg Brace Support Horizontal	2x4x7" Leg Brace Support Vertical	2x4x3-1/2" Support Wedge

Cut List for Dimensional Lumber Set Saw for 90 degrees



Dimensional Lumber Tags Print this page and cut tags apart. Adhere to your cut pieces for easy identification and quick reference.	l x6x I5" Head Restraint Left	x6x21-1/2" Back Crossbar #1
lx6x21-1/2" Back Crossbar #2	lx6x21-1/2" Back Crossbar #4	I x6x I5" Head Restraint Right
l x8x21-1/2" Back Crossbar #3	I x I Ox21-1/2" Leg Brace TOP	I x I Ox21-1/2" Leg Brace MIDDLE
l x I Ox21-1/2" Leg Brace BOTTOM	21-1/2" Seat	21-1/2" Seat

Cut List for additional Set saw for 45 degree cuts

Mark the appropriate pieces



Chair Back



Back Crossbar #1

Top Cuts - Measure down I inch on each edge (A) and lightly draw a line across the entire width. On this line mark over 4 inches from each edge (B). On the top mark over 4 and one half inch from the edge (C). Draw a line between the two (B&C). Cut these two sections out per the diagram.

Bottom Cuts - Measure over to the Center Line 10 and three quarter inches, and mark (D). Measure up one and one half inch, and mark (E). Measure over 3 inches from each end and mark (F). Draw an arc from the bottom edge at 3 inches to the centerline top of the one and one half inch mark and back down to the other bottom 3 inch mark. cut and discard. Sand thoroughly for smooth edges.



Head Restraint Cuts

Set your jigsaw to 45 degrees and shave off the edge of each head restraint piece. Sand before assembly.



Modular Component Assembly

Assembly can take two or more days depending on time available and tools at hand.



Modular Component Assembly

4) Fourth are the arms, these are straightforward in construction, glued but supported by "L" brackets.

5) Fifth, the chair base, make sure this is well glued and assembled as it plays an important role with the structural integrity of the chair and helps it stay put as you leap out of it at the hallowenies.

6) The last step is the head restraint, it is directly attatched to the seat back, which should be dry enough by now to assemble these pieces to it.



TAG: Short Leg Brace Support Horizontal Start with this piece and add glue to the top.



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Set Horizontal leg brace in place on top. Apply wood glue to the front center.



TAG: Short Leg Brace Support Horizontal

TAG: Leg Brace Horizontal

TAG: Center Post 'A'

Set Horizontal leg brace in place on top. Apply wood glue to the front center.

Start with this piece and

add glue to the top.

Set two screws to hold it together.



TAG: Short Leg Brace Support Horizontal

TAG: Leg Brace Horizontal

TAG: Center Post 'A'

Set Horizontal leg brace in place on top. Apply wood glue to the front center.

Start with this piece and

add glue to the top.

Set two screws to hold it together.

TAG: Center Post 'B' Screw Center Post 'B' to 'A' and secure with screws. Apply Glue to the Top



TAG: Short Leg Brace Support Horizontal

TAG: Leg Brace Horizontal

TAG: Seat

Support -

Front

TAG: Center Post 'A'

TAG: Center Post 'B'

Screw Center Post 'B' to 'A' and secure with screws. Apply Glue to the Top

together.

Start with this piece and

Set Horizontal leg brace in

place on top. Apply wood

Set two screws to hold it

glue to the front center.

add glue to the top.

Center Front Seat Support and screw in place. Apply Glue to facing side.



TAG: Short Leg Brace Support Horizontal

TAG: Leg Brace Horizontal

TAG: Center Post 'A'

TAG: Center Post 'B'

TAG: Seat Support -Front

TAG: Leg Brace Support Vertical Start with this piece and add glue to the top.

Set Horizontal leg brace in place on top. Apply wood glue to the front center.

Set two screws to hold it together.

Screw Center Post 'B' to 'A' and secure with screws. Apply Glue to the Top

Center Front Seat Support and screw in place. Apply Glue to facing side.

> Clamp in place and allow to dry. Do Not Screw in place as this will be a viewable face.



TAG: Short Leg Brace Support Horizontal

TAG: Leg Brace Horizontal

TAG: Center Post 'A'

TAG: Center Post 'B'

TAG: Seat Support -Front

TAG: Leg Brace Support Vertical

TAG: Support Wedge Start with this piece and add glue to the top.

Set Horizontal leg brace in place on top. Apply wood glue to the front center.

Set two screws to hold it together.

Screw Center Post 'B' to 'A' and secure with screws. Apply Glue to the Top

Center Front Seat Support and screw in place. Apply Glue to facing side.

Clamp in place and allow to dry. Do Not Screw in place as this will be a viewable face. Glue and Screw support wedge in place.



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Center Front Seat Support and screw in place. Apply Glue to facing side.

Clamp in place and allow to dry. Do Not Screw in place as this will be a viewable face. Glue and Screw support wedge in place.

Glue and Screw support wedge in place. Leave in an upright position and allow the glue to fully dry.





Back Construction

Mark the interior Left and Right back pieces at the given dimensions. Mark the center of the board to assist with the proper alignment of the crossbars. Proper placement of the 'Back Seat Support' is critical as it supports the seat. The top of this support must be 18 inches above the floor, and level with the floor. If the 5 degree cut was used, this crossbar must be installed at the same 5 degree angle to be level. Glue and Screw all pieces into place as this is a permanent unit of the modular design.





Arm Construction

Install 'L' brackets flush with the top of the arm posts, centered on the edge of the post. Glue and screw them to the arm pieces as shown, flush with the inside edges of the arms., 2 - 15/16" back from the front of the arm. Lay them on their sides and allow to fully dry.

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Base Construction

Lay the base left and right out and mark the 19 1/2" dimension. Glue and screw these pieces together on a level surface. Allow to fully dry before final assembly.



Back Construction



Chair Back should be dry enough for assembly of the final two pieces at this point. Glue and screw onto the chair back centered left and right about 4 inches apart. Vertical placement is centered between the top two chair braces. (Be careful that you do not drive your screws all the way through the face.Brace the head restraints with the leftover wood from, page 7.

NOTE: in my final construction I made new braces from wood used for the head restraints. Structurally nt as sound but more aesthetically pleasing.



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3) Lay the chair back flat on its back and screw the seat in place flush with the back of the Back Seat Support

4) Stand this unit up and place it over the base about 11 inches from the back, allowing about an inch of overhang on the front support. Test fit the arms to make sure the posts do not extend beyond the front of the base. Screw the front support to the bottom of the seat, or tack or clamp in place if center post adjustments may be needed.



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5) Install the left arm, screw it to the chair back, seat and base.



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6) Install the right arm, screw it to the chair back, seat and base.



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7) Install the leg restraint and screw it in from the bottom through the center supports