



Paper Towel Dispenser

by BuildBasic

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Assemble crown molding into two outside corners to box in a decorative holder for paper towel or hand towels. Add a slot at the bottom and a lid on top to complete the look.

PROJECT INFORMATION

Difficulty: Intermediate
Categories: Crafts & Decor

TOOLS USED

18V ONE+™ AIRSTRIKE™ 18GA BRAD NAILER
10 IN. SLIDING COMPOUND MITER SAW WITH LASER
VARIABLE SPEED JIG SAW
VARIABLE SPEED DRILL
25 FT. TAPE MEASURE

MATERIALS USED

4 5/8-INCH CROWN MOLDING (WITH A 52/38 SPRING)
PAINTERS TAPE
1/4-INCH PLYWOOD
1/2-INCH PLYWOOD

1 INCH BRAD NAILS
WOOD GLUE
5/8-INCH SPADE BIT
HAND CLAMP

PROJECT STEPS

STEP: 1



Size and Prep the Base Using a miter saw, cut the base of the paper towel holder to size (9-inches-long-by-3¼-inches-wide) from a piece of ½-inch-thick board or scrap plywood. Mark a rectangle 7½-inches-long-by-1¾-inches-wide on the center of the cut board. Using a drill fitted with a 5/8-inch spade bit, drill holes through the board at each corner of the rectangle to create the rounded corners of the opening.

STEP: 2



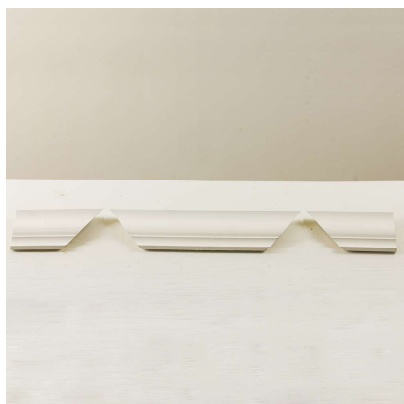
Cut the Opening Clamp the board to the work surface. Using a jigsaw, cut the line between the holes drilled in step one to complete the rectangular opening.

STEP: 3

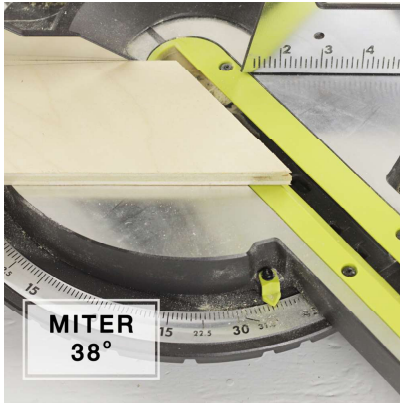
Set up the Saw To cut the crown molding flat on a compound miter saw, tilt the bevel of the blade to 33.9-degrees, and then twist the miter angle of the blade to 31.6-degrees. (Note these adjustments are for crown molding with a 52-degree/38-degree molding. If you're working with 45/45 crown molding adjust the bevel to 30-degrees and the miter to 35.46)

STEP: 4

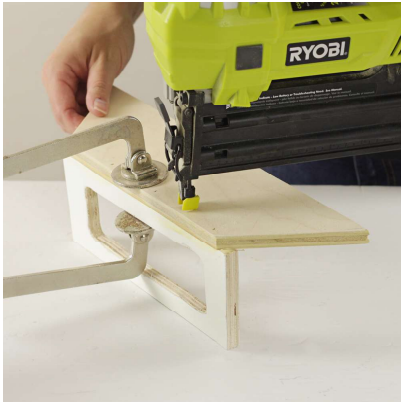
Cut the First Piece of Crown Molding On the bottom edge of the crown molding, mark 3¼-inches from the end of the board. Orient the molding on the saw so that the miter creates a long point at the top edge of the molding and the bevel cuts back into the thickness of the molding.

STEP: 5

Finish Cutting the Crown Molding Finish cutting the molding as shown so that the bottom edge of each piece fits against its corresponding edge of the base board cut in step one.

STEP: 6

Cut the Back Miter the ends of the ½-inch-thick back board to 38-degrees, or the spring angle of the crown molding.

STEP: 7

Assemble the Base and Back Apply wood glue to the edge of the base board. Center the back on the edge of the base, and then nail it into place using a pneumatic nail gun and 1-inch brad nails.

STEP: 8

Add the Crown Molding Side Place the first piece of crown molding along the edge of the base so that it covers the edge of the back board. Apply glue to the edge of the base and the back boards. Nail through the crown and into the base and back boards to hold it in place.

STEP: 9

Attach the Front Apply wood glue to the edge of the installed crown molding piece, and along the front edge of the base board. Place the center piece of crown molding in place, concentrating on the joint with the installed crown. Nail through the crown and into the base board to hold the piece in place.

STEP: 10

Attach the Last Side Glue and secure the remaining piece of crown molding. Add painter's tape across the joints to hold them tight while the glue dries.

STEP: 11

Cut and Place the Lid Cut a piece of ¼-inch board or scrap plywood to a size of 14¼-inches-long-by-6-inches wide. Place the board onto the assembly as a removable cap.