

Jewelry Box

Take a look at the sample Jewelry Box. You will be creating an exact replica by following the plans.

Safety: You must be trained to use the Router, Table Saw with Dado Blade, and Compound Miter Saw before doing this project.

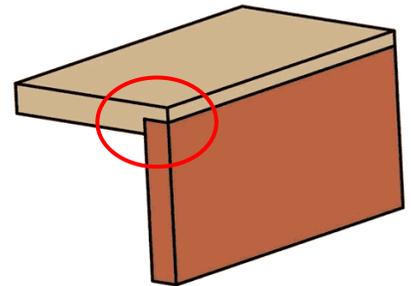
Note: Measure twice before cutting.

Procedure:

1. Using the Compound Miter Saw, cut two (2) pieces of 1" X 5" Pine board 10" (25.5 cm) long and two more 5 1/2" (14 cm) long.
2. We are going to make Rabbet Joints to make the board strong.



Rabbet Joint



Side Rabbet:

1. On the two longer boards, mark 3/4" (1.9 cm) from each end.
2. Set up the table saw as follows:
 - Remove blade guard
 - Raise the blade 0.375" or 3/8" (1 cm) high.
 - Install the special "L-fence" just above blade height (or install a sacrificial fence if you don't have an "L-fence" – see photo – tighten clamps.

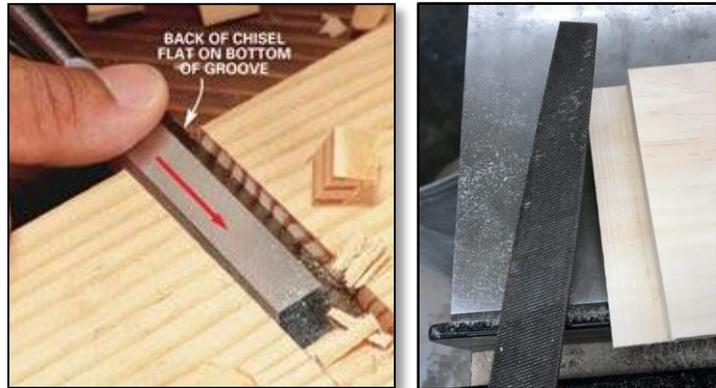


- Set the "L- fence" 3/4" (1.9 cm) from the blade
- **Do you need the teacher to check all of this? (Probably!!)**

3. Make several cuts, starting at the fence and working back to make a Rabbet from your mark to the end of the board.



4. Use a chisel to take out any wood left between cuts, then run a file to smooth out the joint.



5. Dry fit the four boards together. **(Do NOT glue or nail yet!)**

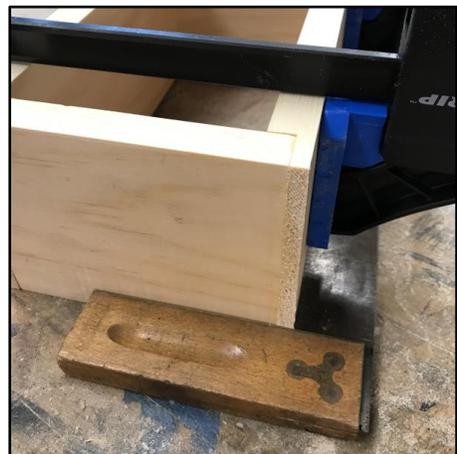


Bottom Rabbet:

1. Check the thickness of the material you will be using for the bottom. Usually 1-8" or 1/4" (3 mm – 65 mm) plywood.
2. Set the L-fence the plywood thickness away from the "L-fence".
3. Cut a Rabbet along the bottom of each of the four boards so we can set the bottom in place later.



4. Glue and nail the sides together Apply clamps.
Important: Use a tri-square to check that the box is square.



5. (After the glue dries) Pre-drill the nail holes (2 per side) about same distance in from each side (about 1 inch in or 2.5 cm). Put the nails in $\frac{3}{4}$ of the way and then the rest of the way with a **Nail Center Punch**. Countersink the nails and apply some putty to cover the holes.



Bottom:

1. Measure the dimensions of the bottom opening. Mark the bottom plywood material for cutting.
2. Set up the Table Saw:
 - Install the blade guard
 - Remove the L-Fence
 - Set the blade to a little more than the thickness of the plywood
3. Glue it in place with the "good side" up. Nail with 4 nails (angle them so you don't miss the side boards)



Top:

1. Using the Compound Miter Saw, cut a 1" X 8" board 10 $\frac{1}{2}$ " (26.5 cm) long.
2. Set up the table saw to rip the board to width:
 - a. Install the blade guard
 - b. Remove the L-Fence
 - c. Set the blade slightly higher than board thickness
 - d. Move the fence to 6 $\frac{1}{2}$ " (16.5 cm) wide from the blade
3. Now, rip your 1" X 8" board to 6 $\frac{1}{2}$ " (16.5 cm) wide.

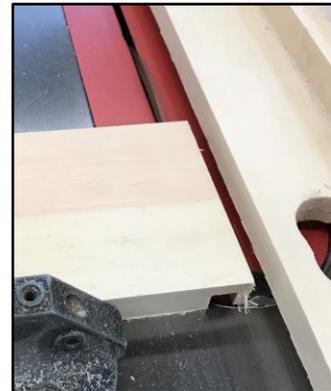
4. Set up the table to cut a Rabbet joint:

- a. Remove blade guard
- b. Raise the blade to 0.375" or 3/8" (1 cm) high.
- c. Install the special "L-fence" just above blade height (or install a sacrificial fence if you don't have an "L-fence") – see photo – tighten clamps.

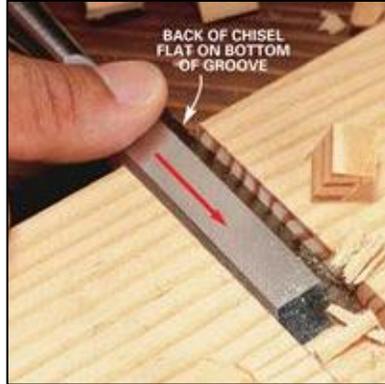


- d. Set the "L- fence" 1 1/16" (2.7 cm) from the blade
- e. **Do you need the teacher to check all of this?** (Yes, of course!!)

5. Cut a rabbet joint around all 4 sides of the top. Make several cuts, starting at the fence and working back to make a Rabbet from your mark to the end of the board.



6. Use a chisel to take our any wood left between cuts, then run a file to smooth out the joint.
7. Check the cover to make sure it fits the opening.



Legs:

1. Set up the table saw to rip the legs to width:
 - a. Install the blade guard
 - b. Remove the L-Fence"
 - c. Set the blade slightly higher than board thickness
 - d. Set the fence to 1 ¼" from the blade

2. Rip a narrow board to 1 ¼" and about 8" (20 cm) long.

3. Router one edge

4. Using a Band Saw with a Miter Gauge, cut the legs into 1 ½" (3.8 cm) pieces.

(Note: it is unsafe to use the Compound Miter Saw to cut such small pieces)

5. Glue the legs in place. Set the box upside down and apply a board with weights to press down on it until the glue dries.



Handle:

The cover handle is made for you. It's your job to measure and get it perfectly centered. Glue it on. Later, you will put a very small nail from the bottom side to secure it.



Finish:

1. Use 220 grit sand paper to sand any rough areas, or any glue. Glue will make your finish look bad.
2. Apply a coat of the stain. The sample strain is Heritage Pine. (You can apply a second coat later).
3. After the stain dries, apply a coat or two of clear coat
4. Glue felt on the bottom of the legs