

# ShopBot®

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**Project:** Tic Tac Toe Game

**Overview:** Round up miscellaneous scrap wood around your shop and turn it into this fun for all ages classic Tic Tac Toe game.

**Materials:** Something dark for the “O”s (walnut used here) something reddish in color for the “X”s (red oak used here) and something to contract the colors for the game board (maple used here)

**Minimum Cutting Area:** 32”x18” overall or see example for using multiple pieces

**Bit Size:** 1/4”

**Finishing:** Watco stain on the X’s, Minwax wipe-on poly for the O’s and game board.



*\*\*Always read the entire project details before starting to cut the file yourself\*\**

*\*\*Account for the thickness of the physical material on hand and the material thickness in the file\*\**

*\*\*This file is zeroed to the tables surface, Zero your bit to the tables surface\*\**



For this example all of the O’s were grouped together and cut on scrap walnut, the X’s on red oak and some glued up maple strips to make the game board. This could also all be done on plywood and painted the colors of your choice.



Secure the game board piece to the table surface, for this example screws are put in each corner at a safe distance from the cutting area.



Tabs are use to hold all the pieces to the scrap wood attached to them. Use a utility knife to score these edges. Never try to push a piece out without cutting the tab, it will tear the grain on your project. Sand remaining tab flat.



A scrap piece of red oak is used for the X's. Simply locate safe locations for the hold down screws and install one in every corner.



Do the same thing for hold down as done on the X's. Note the center of the O's can come loose and pop out during the cut. Depending on the grain of the wood a bigger tabe may be needed to keep these centers from popping out.



Once all the pieces have been cut spend some time sanding all the wood including rounding all the corners of the wood. This game will be handled by lots of people and you do not want them to get slivers. A roundover bit is also recommended for rounding the edges of the game board and pieces.



Minwax WipeOn Poly is used on the game board and all of the O's. To bring out the color in the X's a light stain will bring out the reddish tint in the red oak. Watco Danish Oil was used here.



This game can be enjoyed by people of all ages. Feel free to substitute the species of wood to scraps you have laying around the shop. If you have a lot of plywood scraps, this project looks great with red X's, black O's and a natural game board. Experiment with sizes too if one desires a larger or smaller game.