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## Project: Trivets

**Overview:** This is a set of three different shaped hot plates. These work great when removing hot items from the stove or oven that need to be placed at a serving area while they are still warm.

**Materials:** Any 3/4" thick hardwood that is acceptable to warm surfaces. Red Oak is used in the pictures.

**Minimum Cutting Area:** 10"x10" per trivet

**Bit Size:** 1/4"

**Finishing:** A food grade mineral oil or butcher block oil.



*\*\*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\*\**



Hold down for this project can be done by using screws in each corner through the face, or by ripping a dado on all four edges of the project as pictured above.



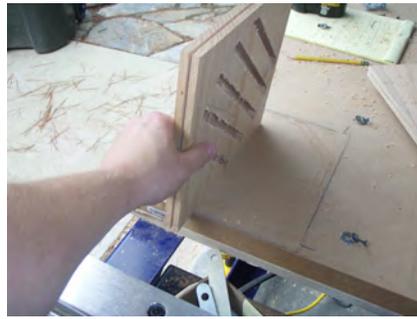
The dado is 3/16" deep into the board and should have the dado half way through the thickness of the material.



This is what the project will look like after the first toolpath. At this point take a pencil and trace the perimeter of board. Next you will be flipping the board over and it is very crucial that it is lined up with the first toolpath.



Remove the screws from the hold down. Grab the piece of wood and flip it over in the X position. Note that the edge of the board that was at X=0" will now be at X=10".



Here is a shot from another view. This is showing how the board is simply picked up, rotated and placed cut side down. Make sure the board is centered within the pencil trace marks done earlier.



Reinstall the hold down, load the second cutting file which also includes the profile cut that removes the project from the scrap. During this cut the previous toolpath will be exposed from the underside.



Tabs are used to hold the project to the waste material. This keep the parts from slipping during the cutting process. Simply find these tabs, score them with a utility knife, remove the project from the waste material and sand off the tabs.



Thoroughly sand the projects surfaces with a power sander. Also use hand sand paper to knock down any sharp corners. Follow any manufacturers finishing instructions or simply rub food grade mineral oil into the wood until it coats evenly.



Repeat all the above processes to make all three shapes. Or simply make one shape as many times as you want to complete your set.



Octagon Trivet PartWorks  
 Octagon Trivet 1st Toolpath  
 Octagon Trivet 2nd Toolpath

Round Trivet PartWorks  
 Round Trivet 1st Toolpath  
 Round Trivet 2nd Toolpath

Square Trivet PartWorks  
 Square Trivet 1st Toolpath  
 Square Trivet 2nd Toolpath