

MATCHFIT™



MATCHFIT 360 SYSTEM PROJECT PLANS

Adjustable Locking Router Guide

PROJECT OVERVIEW

This Adjustable Locking Router Guide is a simple jig that allows you to use a handheld router on surfaces too large for a typical router table. It uses MATCHFIT Dovetail Hardware to quickly and easily adjust to fit the size of the material, and for varying router base sizes. This is an excellent jig for routing the dovetail grooves on the MATCHFIT 360 Table.

TOOLS & MATERIALS

- Table Saw
- Router table
- MATCHFIT Dovetail Router bit, or comparable 14°, 1/2" diameter dovetail router bit
- 45 degree V-groove router bit
- 1/4" straight router bit (spiral is best)
- 3/4" MDF, 14"W x 72"L (will give you a maximum routing length of approximately 64")
- 1/2" forstner bit
- 1/4" standard drill bit
- MATCHFIT Dovetail Hardware
- Carpenter's square

INSTRUCTIONS

STEP 1 - CUT THE STOCK TO SIZE

- Rip two strips of MDF longways at 2-1/2" wide on the table saw. They should finish at 2-1/2" wide and 72" long.
- From the remaining MDF, rip one piece longways down to 4". It should finish at 4" wide and 72" long.
- Cut two 12" long pieces from the 4" wide strip.



INSTRUCTIONS

STEP 2 - ROUTE DOVETAIL GROOVES

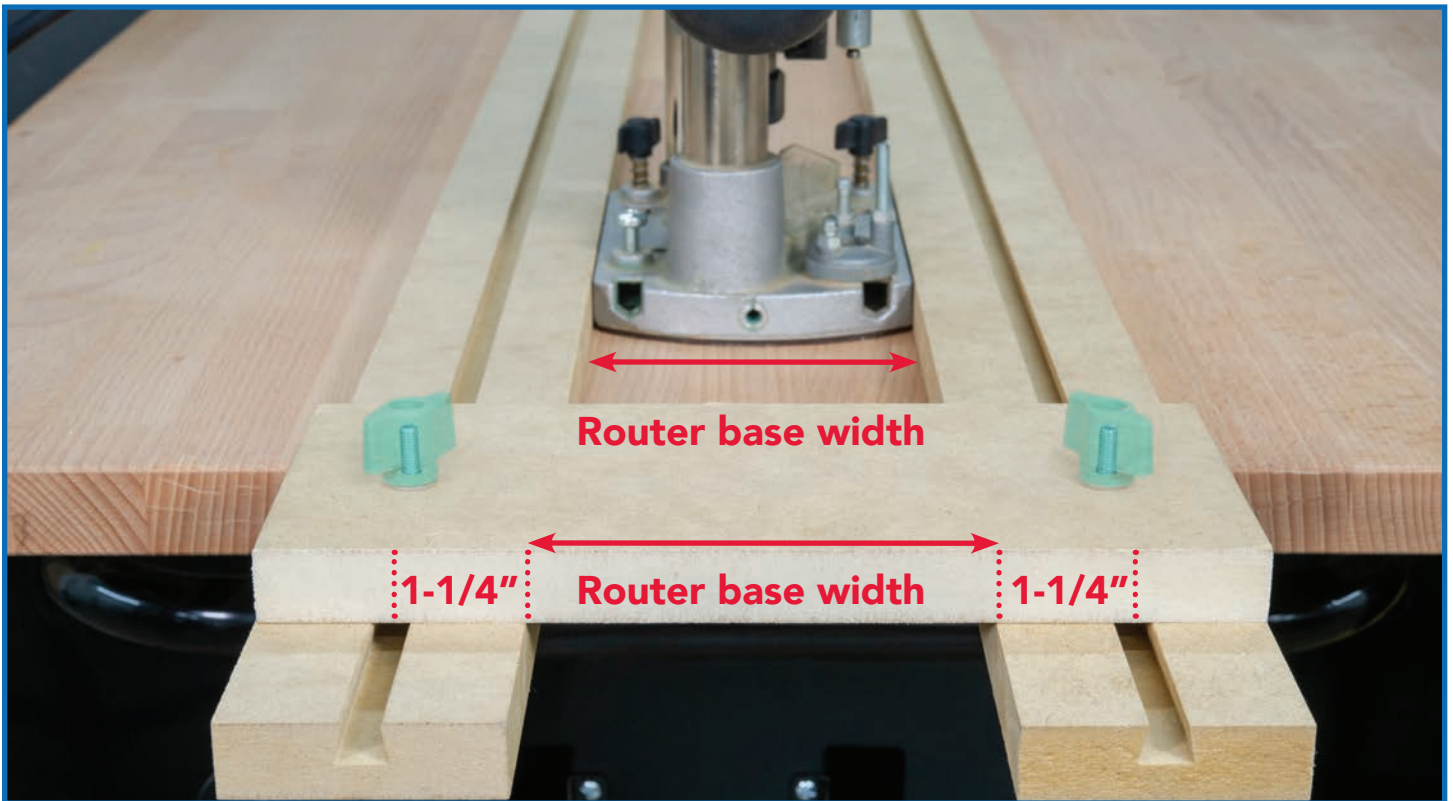
- Set a 14 degree, 1/2" dovetail router bit to a cutting depth of 3/8". Set your router table fence to 1-1/4".
- Route dovetail grooves in both 2-1/2" x 72" strips.



INSTRUCTIONS

STEP 3 - MEASURE AND DRILL HOLE SPACING FOR ROUTER BASES

- Position router base between long strips, making sure strips are parallel with one another.
- Measure the distance between the outside edges of the long strips. 1-1/4" in from both sides is the center of the dovetail grooves. That's where you will drill your holes.
- Repeat process for different sized router bases, if desired.



INSTRUCTIONS

STEP 4 - SQUARING AND CENTERING ROUTER

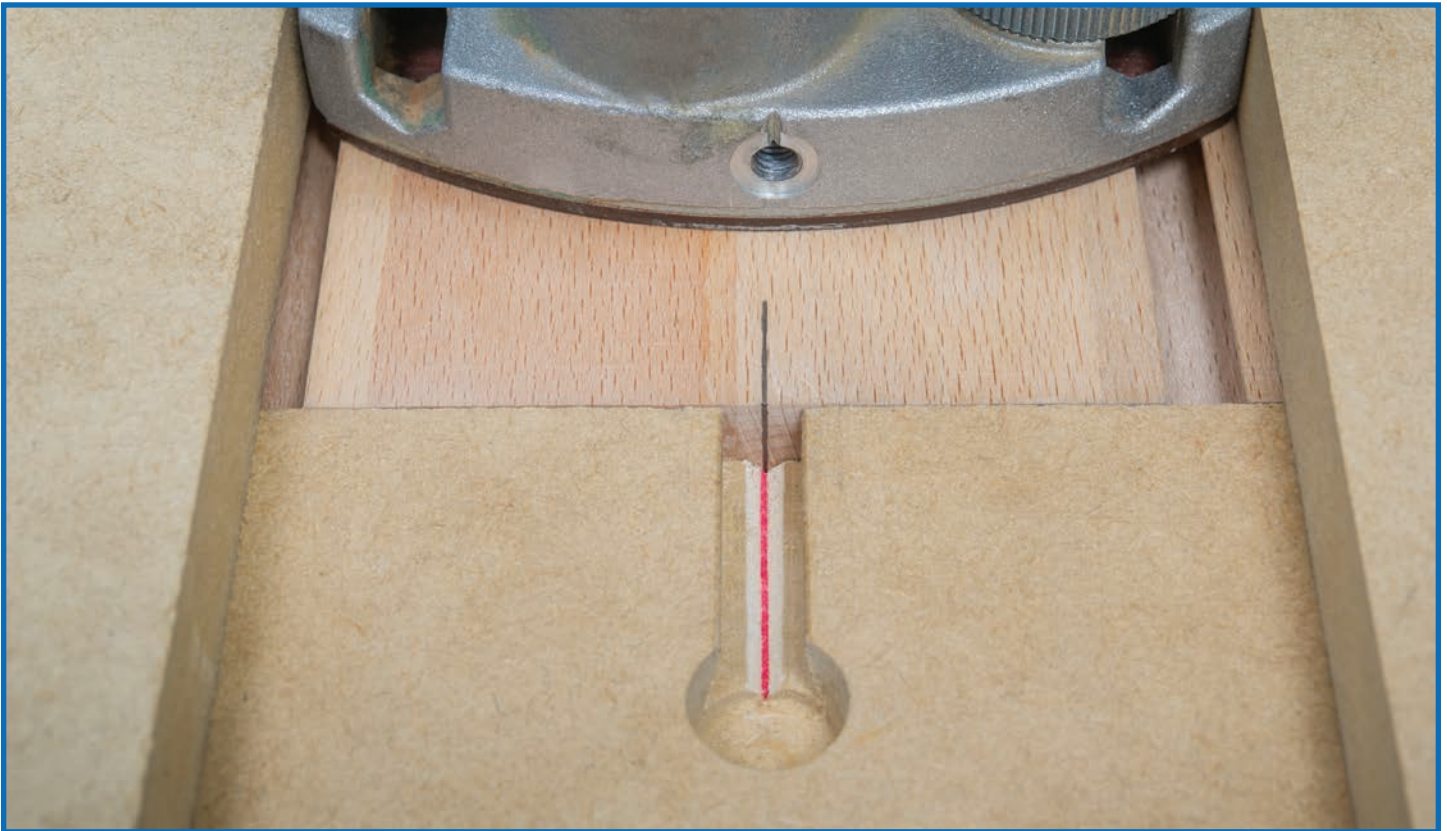
- With Dovetail Hardware installed, slide edge stop up to edge of work surface, tighten knobs, using a carpenter's square to ensure that your guide is 90 degrees with the edge.
- Slide other edge stop up to contact other edge of the work surface, and tighten knobs.
- Secure guide by clamping down to work surface to avoid slippage.
- The first time you use the router guide, plunge a 1/2" router bit 3/8" deep into the edge stop, then raise back up.
- Without moving the router guide, change bit to small v-groove bit.
- Plunge v-groove bit 1/2" deep, and advance toward where the edge stop meets the work surface.



INSTRUCTIONS

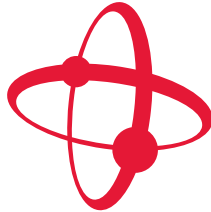
STEP 4 - SQUARING AND CENTERING ROUTER CONT.

- At its deepest point, draw a line with a clearly visible marker to the end of the edge stop. This line is the center of the bit. Use it to line up with where you marked your cuts.



USING THE ROUTER GUIDE

Always make sure that the guide is square and secured with clamps, and your router is centered with the center line marked on the edge stop to ensure accuracy.



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Enjoy!



Woodworking is an inherently dangerous activity. Be sure to know and follow all safety guidelines that come with your power tools.



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