

USING OTHER BIT DIAMETERS: To make a cutout with a bit other than ¼ inch diameter, select the pivot hole by using the following equation:

$$\text{Pivot Hole Value} = \text{Cutout Diameter} - \text{Bit Diameter} + 0.25$$

To make a disk with a bit diameter other than ¼ inch, use the following equation:

$$\text{Pivot Hole Value} = \text{Disk Diameter} + \text{Bit Diameter} + 0.25$$

CONVERSIONS: To convert MM to inches: Inches = MM ÷ 25.4. Use the following example to convert decimal fractional parts to fractional parts: If your cutout is 6.729 inches, you convert the fractional part (0.729) to 16ths of an inch by multiplying 0.729 X 16 which is equal to 11.664. Round this number up to 12. So your cutout would be 6 12/16 or 6 ¾ inches in diameter.

USE THE GUIDE FOR METRIC DIMENSIONS

(Note: These equations calculate the Pivot hole on the Guide in Inches)

To Make a Metric Cutout in MM:

$$\text{Pivot Hole on Guide (Inches)} = \frac{\text{Cutout Diameter(MM)} - \text{Bit Diameter(MM)} + 6.35}{25.4}$$

To Make a Metric Disk in MM:

$$\text{Pivot Hole on Guide (Inches)} = \frac{\text{Cutout Diameter(MM)} + \text{Bit Diameter(MM)} + 6.35}{25.4}$$

INSTRUCTIONS

SAVE THIS PACKAGE FOR FUTURE REFERENCE

SAFETY: Read all precautions that came with your router. Make sure your router is unplugged while changing the bit and leave router unplugged until you complete your setup and you are ready to route your circle. Always use eye protection while routing.

MOUNTING THE GUIDE TO THE ROUTER: Place your guide on the workbench with the counterbores facing the workbench. Remove the plastic base from your router (note: some routers, Freud and Ryobi have the mounting holes in the base plate so the base plate must be left in place). A 1/4 inch dowel pin has been provided in the hardware tube. Install the 1/4 inch dowel pin in the collet of your router, so that 7/8 of an inch of the pin is protruding from the collet. Note that you may need to use your 1/4 inch reducer to properly install the dowel pin. A calibration disk has been pressed into the 1 3/4 inch hole that is in the guide. Leave the disk in place until you have finished mounting your router. There is a 1/4 inch hole in the disk. Plunge the router so that the dowel pin aligns into the 1/4 inch hole and lock the brake. Hold your hand on the bottom of the guide and turn your router over so that you can see the counterbores. Rotate the guide around the router base until the mounting holes line up and mount the guide with the supplied screws. Release the lock on the router and remove the disk from the guide by tapping up on the disk from the bottom with a small hammer. Replace the 1/4 inch pin with a 1/4 inch router bit. Your circle guide is now calibrated for your router.

REINSTALLING THE CALIBRATION DISK ON THE GUIDE: Save the calibration disk and 1/4 inch dowel pin for future installation. The disk should be reinstalled in the guide by tapping it into position with a small hammer. The disk should remain in the guide when the guide is not in use.

HOW TO USE THE SCALE: The scale is calibrated to make cutouts using a 1/4 inch bit. On the other side of this package, under the guide, are equations for selecting the pivot hole to make a disk and to use other bit diameters. Also equations are listed for using the Guide with metric bits and dimensions. The guide has inches listed along the horizontal scale on the bottom edge of the pivot hole pattern, and the fractions listed vertically along the left end. To find the 12 1/2 inch pivot hole, find the 12 inch column of holes from the horizontal scale and the 1/2 inch row of holes from the vertical scale. Follow these lines to the 12 1/2 inch pivot hole. The scale will face the work piece while routing the circle. When you have located the pivot hole for the diameter circle you wish to make, insert the pivot pin in that hole. The pivot holes are precision drilled so that the guide holds the pin in the selected hole without falling out. When you turn your router over the pin will not fall out of the guide.

SETTING UP: Figure 1 shows a typical setup for cutting circular holes, mortises, or disks. The work-piece should be taped to the backup with double sided tape on both the inside and the outside of the cutout. Using a 1/8 inch diameter drill bit, drill a vertical hole through the work-piece and into the backup. This hole should be located at the center of the circle to be cut.

SETUP FOR CIRCLE ROUTING

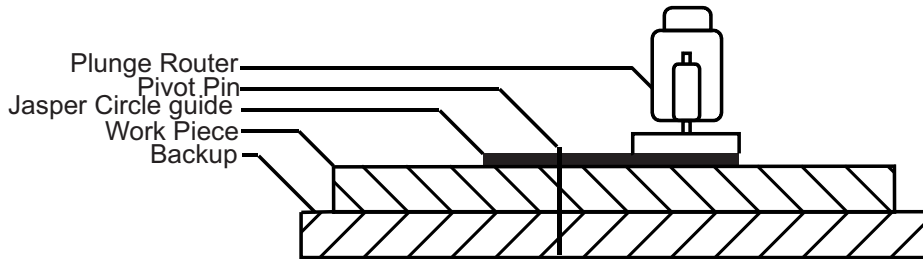


Figure 1

Made in USA