



# carter products

## ACCURIGHT® CIRCLE JIG

### INSTALLATION INSTRUCTIONS



**!** WARNING: Cancer and Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) **!**

# MOUNTING INSTRUCTIONS



**CAUTION! DO NOT BEGIN INSTALLATION UNTIL SAW IS COMPLETELY DISCONNECTED FROM ALL ELECTRICAL POWER!**



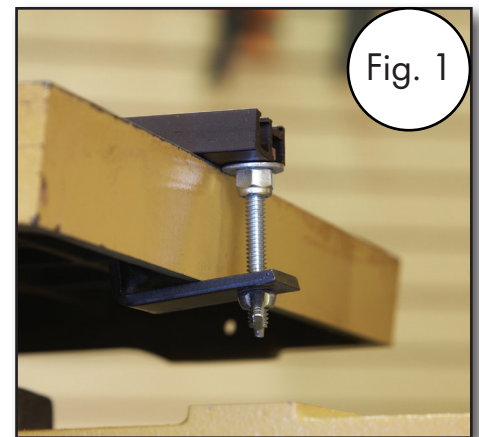
Scan the QR code for demonstration. →



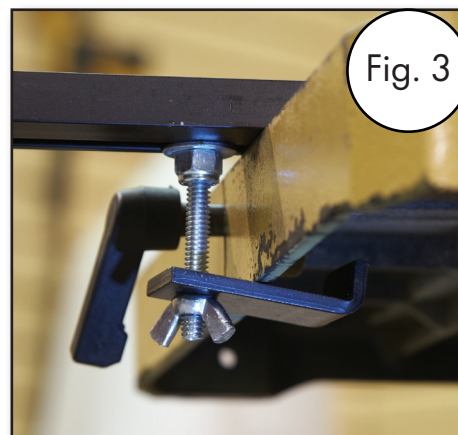
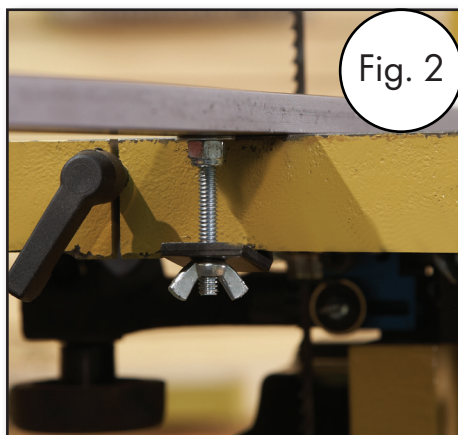
**NOTE:** For bandsaws with normal clearance between frame and table, use the standard option to install the clamp bracket. For bandsaws with limited clearance between frame and table, use alternate clamp included with kit and follow *Clamp Addendum* procedure to install clamp bracket.

## STANDARD INSTALLATION

1. The pre-installed clamp bracket is located at the left edge (frame side of saw) of the long extrusion with the lip of the clamp facing up. Slide the bolt and clamp assembly under the left edge of your bandsaw table lip and as close to the table edge as possible so that the washer touches the edge of the table. Secure the 2 ½" hex bolt in place by tightening the ¼" lock nut against the bottom of the extrusion channel. Lightly secure the clamp in place with the ¼" wing nut for later adjustment (Fig. 1).



2. Assemble the second table clamp (Fig. 2) by inserting one 2 ½" long hex head bolt into the lower channel of the long extrusion at the right end of the long extrusion (table pin side of saw). The lower channel is underneath the installed scale. Install a ¼" washer and thread a ¼" locking nut onto the 2 ½" hex bolt. Bring the bolt assembly up to the right edge of the table lip and as close to the table edge as possible so that the washer touches the edge of the table (Fig. 3). Tighten the wing nut on to the bolt securing the assembly on to the track.



3. Temporarily make sure the long extrusion is approximately one inch behind the bandsaw blade and perpendicular to the miter slot (Fig. 4). You will make a final adjustment later in Step 6.

***Section in red is required for bandsaws with limited clearance between frame and table.***

## **CLAMP ADDENDUM**

1. Remove factory installed clamp on the left of the Circle Cutter extrusion by loosening nut against the bottom side of the extrusion (Fig. 5).

2. Insert table Extension Clamp between saw frame and table with the small lip down and under the bottom of the table (Fig. 6 & 7).

3. Loosen both hex nuts until you can insert the clamps black t-nut into long extrusion "T" channel. Next, tighten the hex bolt until it bottoms out in the channel (Fig. 8).

4. Adjust the lower hex nut up until the clamp grips the bottom of the saw table (Fig. 9).

5. Adjust the upper hex nut down until it is snug against the clamp (Fig. 10).

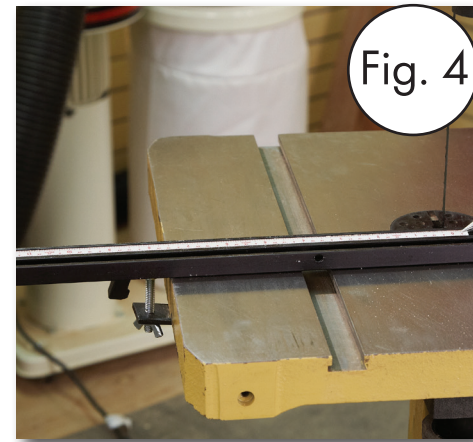


Fig. 4

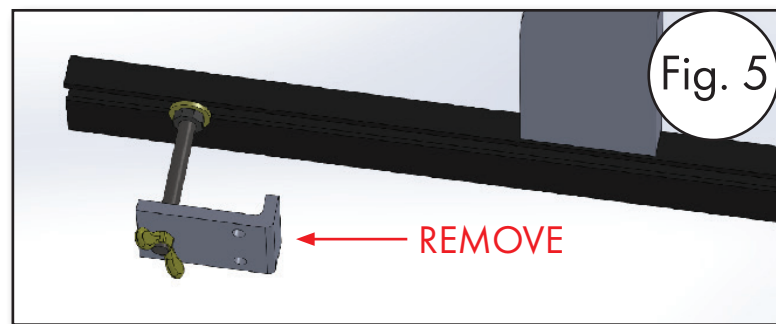


Fig. 5

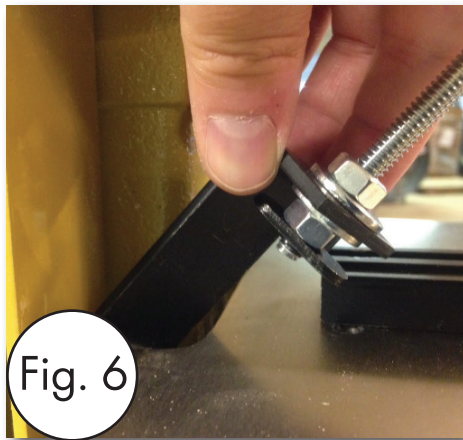


Fig. 6

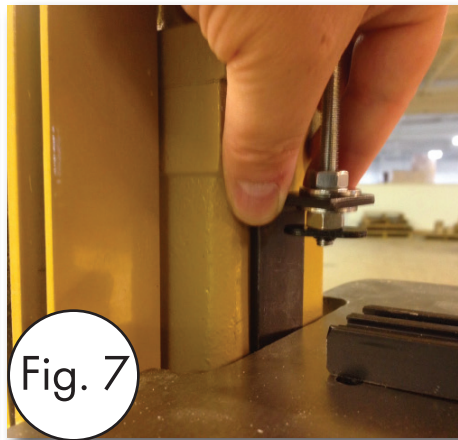


Fig. 7

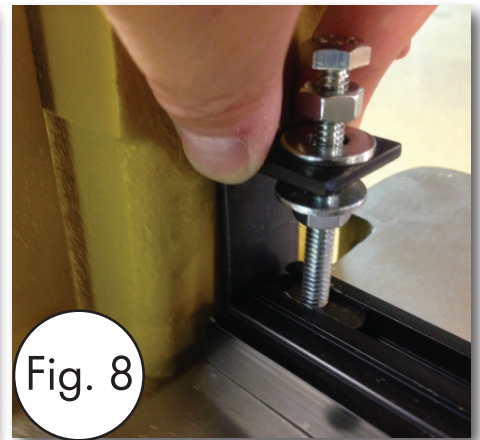


Fig. 8

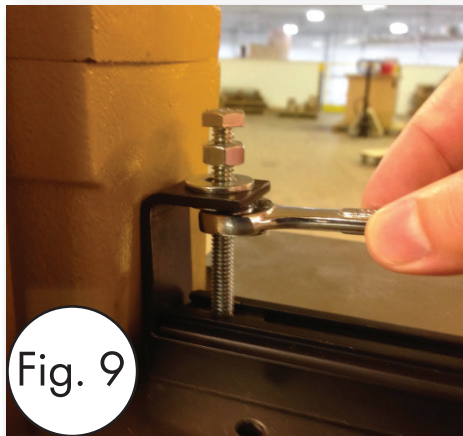


Fig. 9

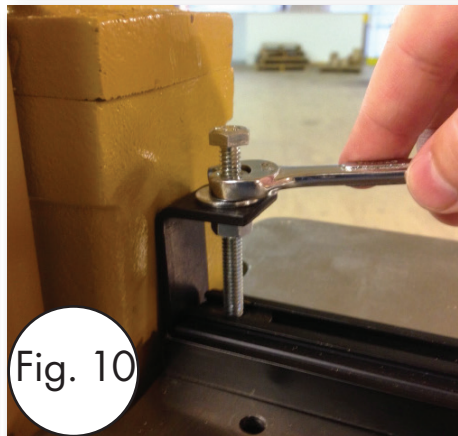
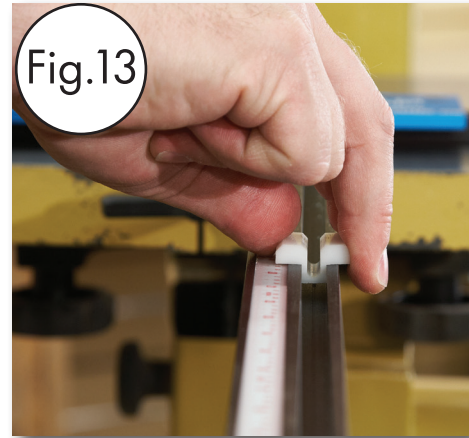
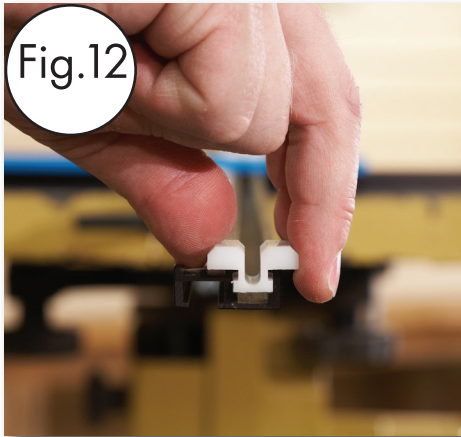


Fig. 10

Once you have installed the proper clamp bracket to your bandsaw, continue with the remaining installation instructions provided.

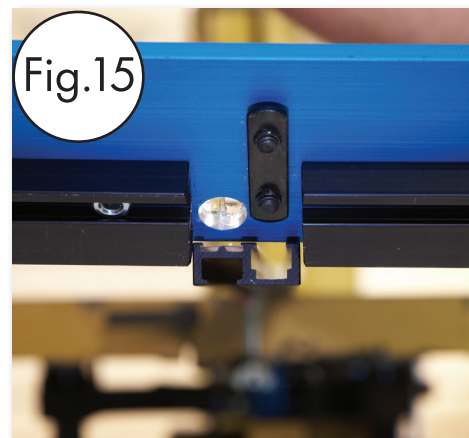
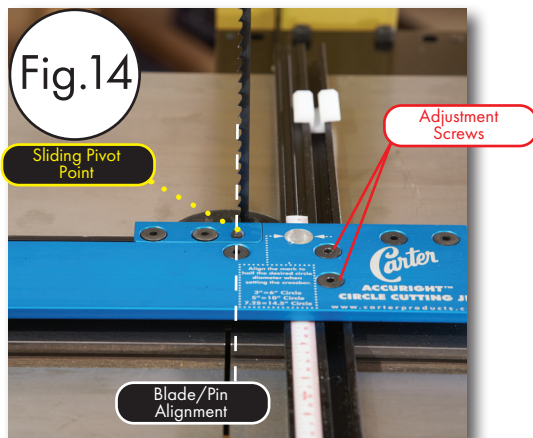
- Slide one of the plastic support blocks in the left side of the long extrusion and place it to the left of the blade (Fig's. 12 & 13)



- On the cross bar with sliding pivot point, loosen the two adjustment screws indicated in Fig. 14 to prepare the "T" nut for assembly into the long extrusion. Slide the cross bar with sliding pivot point onto the long extrusion by inserting the "T" nut into the right end of the upper channel (Fig.15). Make sure the cross bar with sliding pivot point is installed with the pivot point on the same side of the long extrusion as the bandsaw blade and that the scale reading hole aligns with the scale on the long extrusion (Fig. 14).

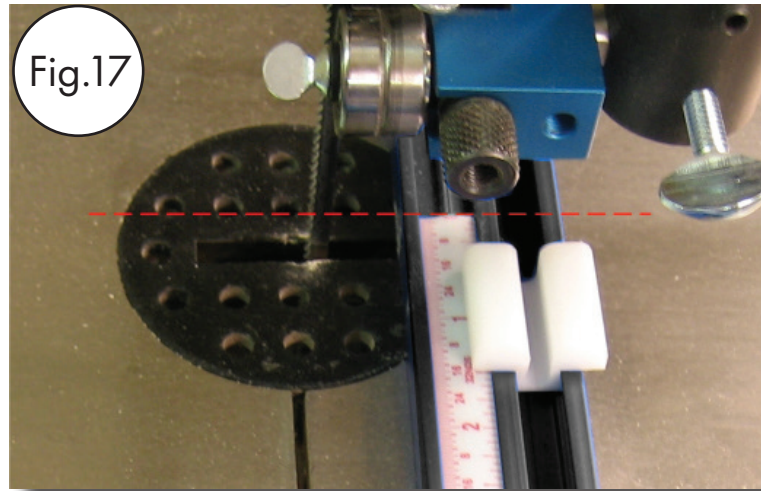
- Slide the cross bar with pivot point as close to the bandsaw blade as possible. Make sure pivot point is in the locked position (closest to the long extrusion). Adjust the long extrusion toward the front or back of the saw table as necessary to align the pivot pin with the leading edge of the blade (Fig. 14 dotted line). Either by using a tri-square or by measuring from the table's edge, make sure that the long extrusion remains perpendicular to the miter slot.

- Once the pivot point is aligned with the leading edge of the blade and the long extrusion is perpendicular to the miter slot, tighten the wing nuts at the left and right ends of the bandsaw table to secure the circle cutting jig in place.



8. Adjust the one piece scale in the long extrusion to align the zero on the scale with the back of the bandsaw blade (Fig's. 16 & 17). This adjustment may be most easily done by pulling very carefully on the ends of the scale segments using a needle nosed pliers or similar tool. Use caution to avoid damaging the scale. This is a one-time adjustment and should not need to be repeated as long as your circle jig is being used on the same saw each time you do not change the position of the 2 1/2" hex head bolt used to clamp the assembly at the left end of the long extrusion. **NOTE: The scale is 1:1 and should indicate the radius of the circle and not the diameter.**

9. Slide the two remaining plastic support blocks onto the circle cutter, one on the right side of the long extrusion and one on the short extrusion at the back side of the table. **NOTE: When cutting a circle, these blocks should be positioned under the diameter of the circle to support the circle as it is cut.**



## ADDITIONAL SUPPORT MOUNT INSTALLATION



The add-on support assembly allows the material to have added support as it enters the blade path. While not necessary for use when cutting blanks or circles it does increase the stability of the material to be cut, thus it is recommended.

The position of the material support can be adjusted at any time before cutting larger or heavy blanks. The support should always be positioned so that it is to the left of the blade and is close as possible to the blade but far enough away to support the outer edge of the larger or heavy material and not able to contact the blade.

1. Remove material support from bag.
2. Loosen the 1/4" flat head screws so the "T" nut is loose and able to slide onto the cross bar extrusion.
3. Slide the material support onto the cross bar extrusion from the left side making sure the "T" nut slides into the extrusion.
4. Adjust the material support for optimum support before cutting by moving the support left or right so it supports the outer edge of material but does not contact the blade.



## CUTTING WITH THE CIRCLE JIG

The Circle Cutting Jig® is intended for use with the Carter Conversion/Upgrade Guides or original equipment roller bearing or block guides, not the Carter Stabilizer®.

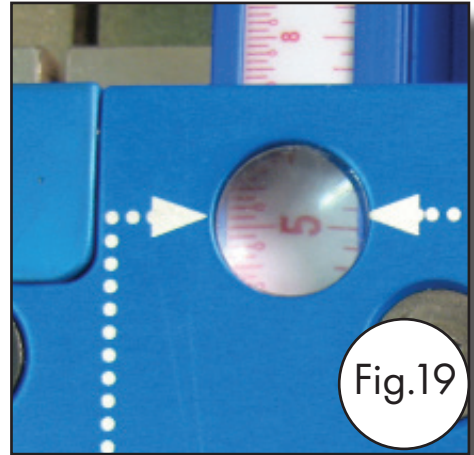
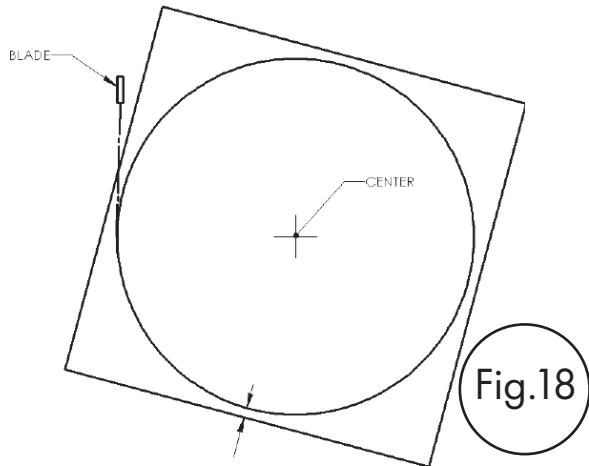


The wood you plan to make a circle out of must be slightly larger than the circle diameter needed on all sides (Fig.18). On larger pieces it may be necessary to start the cut at an angle as shown in Fig.18 because the size of your raw stock is longer than the distance between the rear of the sliding point track and your blade.

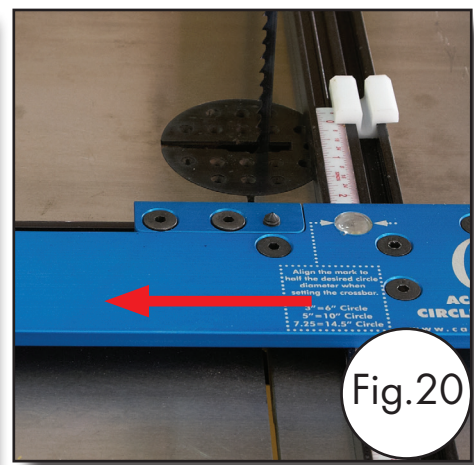
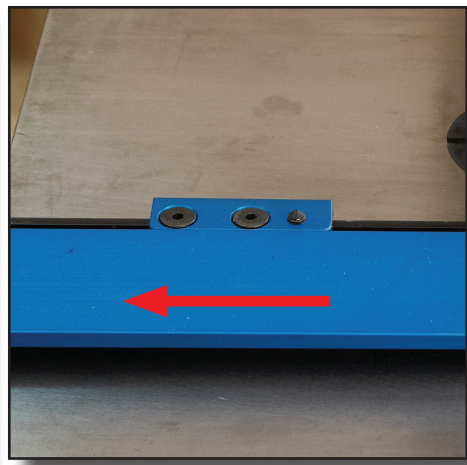
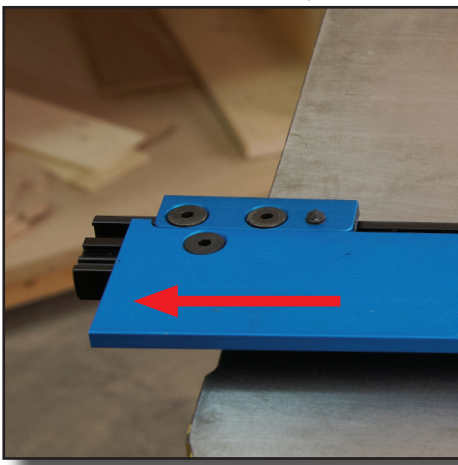
Proper blade selection is critical to match the circle diameter within the limitations of the cut radius of the blade. For example, a 1/2" blade would be appropriate for circles in diameter of 12" and above, but would be too wide for use on tighter radius cuts. Always use the widest blade your circle diameter will allow.

Determine the diameter of the circle needed by adjusting the center bar to the radius reading viewed in the window on the center tape which equals half the intended circles diameter (Fig.19). For example, a 5" radius reading on the tape as shown in Fig. 12 would result in a 10" circle when finished and you would need to start with raw stock at least 10.5" to 11" circle with a slight margin for error in center pin alignment and placement.

Move the white side support blocks and the auxiliary support piece to within the diameter of the circle to be cut.

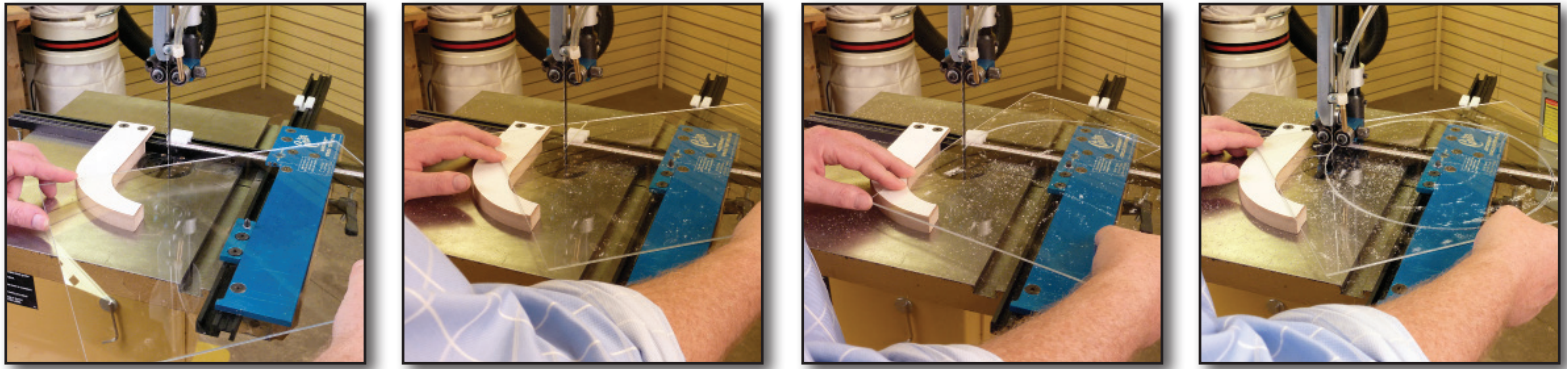


**IMPORTANT!** Slide the section containing the center pin rearward to set-up for the cut (Fig.20). The sliding center pin is locked into the forward position with small magnets, so slight pressure will be needed to break the magnetic bond.



**NOTE: Plexiglass is being used for demonstration purposes to illustrate the sliding of the center pin forward and the cutting movement used when cutting a circle with the AccuRight® Circle Cutting Jig.**

- Align the wood to the center piece by marking the center position on the wood prior to cutting. If you have excess material, you use the best guess method to locate the center point. If you mark the center, it can be helpful to center punch the material to give the center point a rotational indentation. If you prefer the best guess method, the press firmly down to the set point into the material. **NOTE: Some hard woods may require a center punch due to the material hardness.**
- To begin the cut, press firmly on the center and right side of the material to stabilize it during the entry cut and throughout the cut. It is important to keep this pressure on the center and right side throughout the cutting process to help stabilize the material and keep it locked into the center point.
- Slide the wood forward into the blade until the center point section hits the stop point. At this time you can only rotate the material clockwise. Continue rotating the material in a clockwise motion to complete the circle.
- Upon completion, turn off the bandsaw and wait for the blade to stop before removing the excess material and your finished circle.



#### • CUTTING LARGER CIRCLES OFF THE TABLE •

- To cut larger circles it is possible to use the AccuRight® Circle Cutting Jig off the table as long as a proper support is provided underneath all three load bearing surfaces. Proper support must be placed under the rear of the main bar as well as under both side support bars of the sliding cross assembly.
- The diameter of the circle is only limited to the radius length from the blade to the opposite right side of the extrusion. The main extrusion bar is 40" in length, but you must subtract the distance from the left table mount to the blade to determine the largest diameter circle possible.
- For circles larger than two feet in diameter, it is helpful to have a second person to assist in the mounting, rotating and holding the material to be cut and waste.

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