

*Your new #9308 Curv Pro™ Circle and Ellipse Router Jig is designed to work with any router. A plunge router may be easier to use with this jig, but is not required. Please read and understand the included instructions and familiarize yourself with the operation of this jig before attempting to operate your router with this fixture. Follow all safety precautions outlined in your router manual and wear appropriate clothing and eye protection when using any power tool.*



### **Capabilities of this Jig:**

#### **Circle range:**

**Maximum radius: 44-5/8"**

**Maximum diameter: 89-1/4"**

**Minimum radius: 11-3/8"**

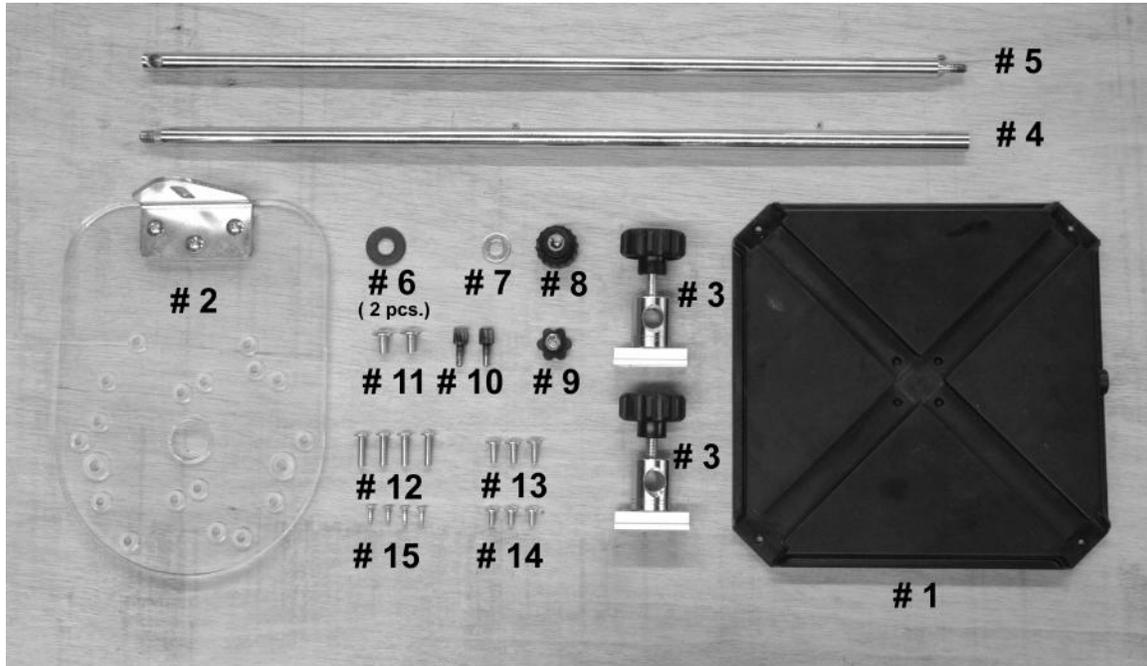
**Minimum diameter: 22-3/4"**

#### **Ellipse range:**

**Maximum Size: 89-1/2" x 80-1/2"--85-3/4"**

**Minimum Size: 22-3/4" x 26-5/8"--32"**

## Parts List and Diagram:



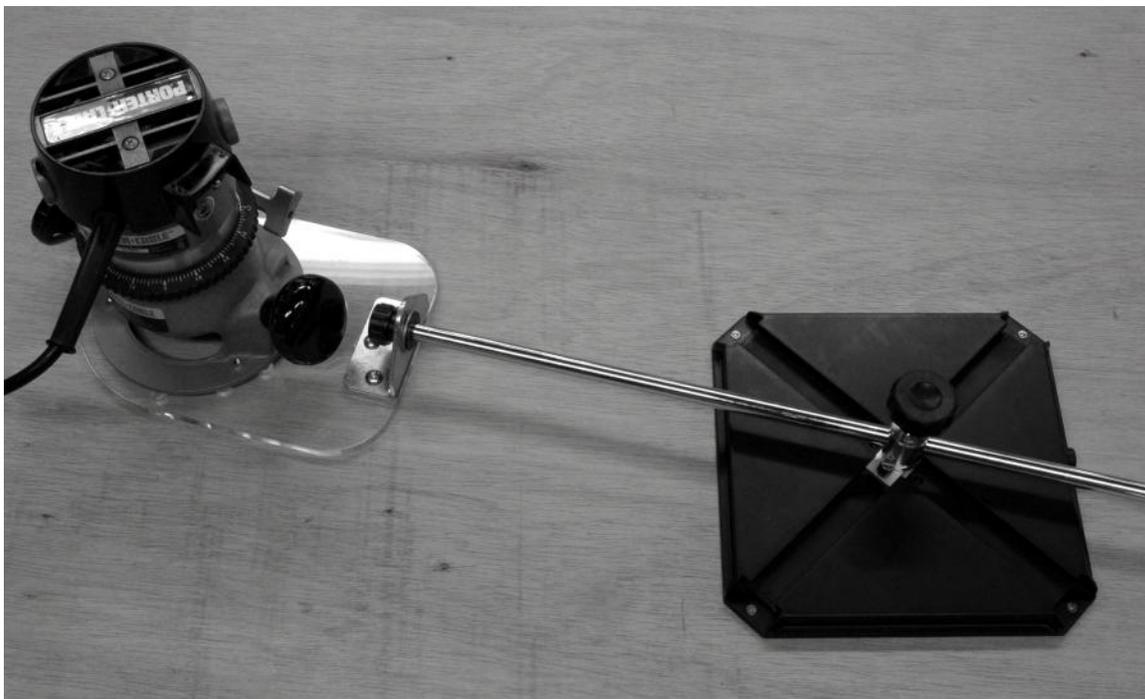
Part #	Description	Quantity
1	Cross Frame	1
2	Router Plate and Rod Mounting Bracket	1
3	T-Bar Sliding Rod Mount	2
4	26 3/4" Steel Rod	1
5	Extension Steel Rod	1
6	1" Flat Washer	2
7	3/4" Flat Washer	1
8	Female Locking Knob	1
9	Male Locking Knob	1
10	Knurled Head Cap Screw (M4 x .7 x 16mm)	2
11	Oval Head Phillips Machine Screw (M6 x 1.0 x 12mm)	2
12	Oval Head Combo Machine Screw (M5 x .8 x 18mm)	4
13	Oval Head Combo Machine Screw (10 x 24tpi x 1/2")	3
14	Oval Head Combo Machine Screw (8 x 32tpi x 3/8")	3
15	Brass Countersink Screw (#4 x 1/2")	4

## Basic Assembly Instructions:

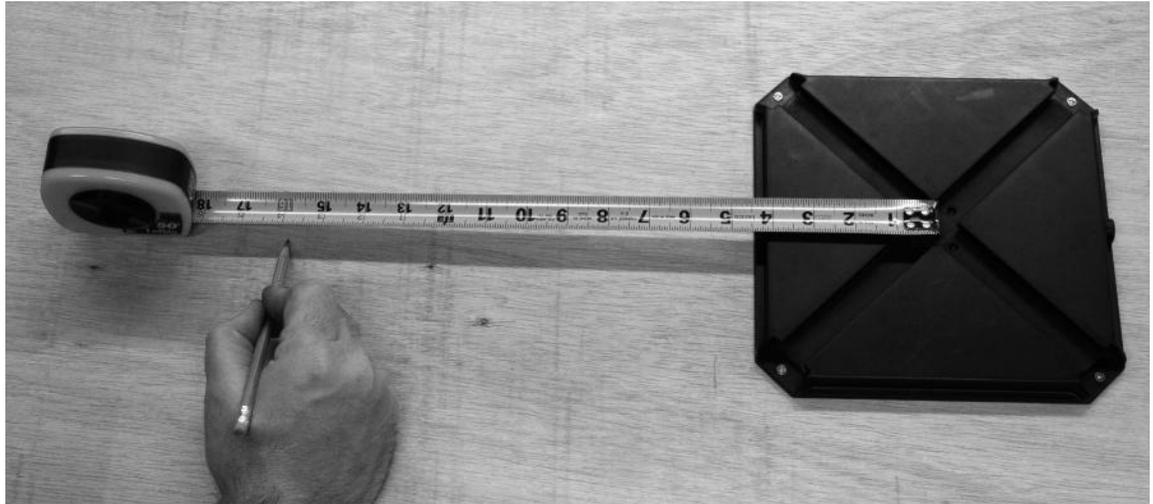
1. Install your router onto the Router Plate (#2). Remove your sub-base that is currently installed on the bottom of your router. Using the appropriate mounting holes and screws (#11,12,13,14) or the screws from your current router base, securely install your router to the Router Plate (#2).
2. Install the straight or spiral router bit with which you plan to cut your circle or ellipse into your router. It is important to do so at this time as the bit diameter will affect the set up when you adjust for the size of the circle/ellipse being cut.
3. Slide the two (2) 1" Flat Washers (#6) on the end of the Steel Rod (#4) that has flattened shoulders on two sides of one end. Then insert the Steel Rod (#4) through the mounting Bracket on the Router Plate (#2). The two flattened shoulders should align with the slot in the mounting bracket on the Router Plate (#2). Next slide the 3/4" Flat Washer (#7) over the exposed thread and secure the Steel Rod (#4) to the mount on the Router Plate (#2) using the Female Locking Knob (#8). **If you are making a circle or an ellipse**, add the #5 Extension Steel Rod by screwing the male threads into the female threads in the end of the steel rod (#4).

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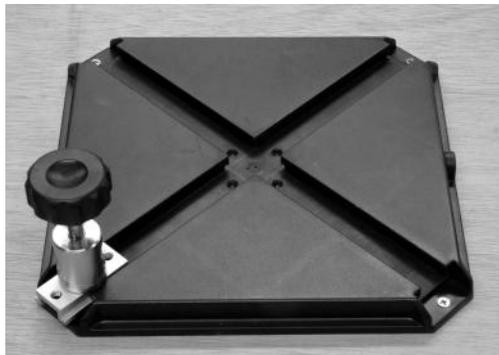
## Making A Circle:



1. Center and attach the Cross Frame (#1) to the bottom of your stock using (4) #15 Round Head Screws. Screwing the Cross Frame (#1) is the most effective way to attach it to your stock.
2. Measuring from the center of the Cross Frame (#1), make a pencil mark at the distance of the radius ( half of your diameter ) you wish to cut.



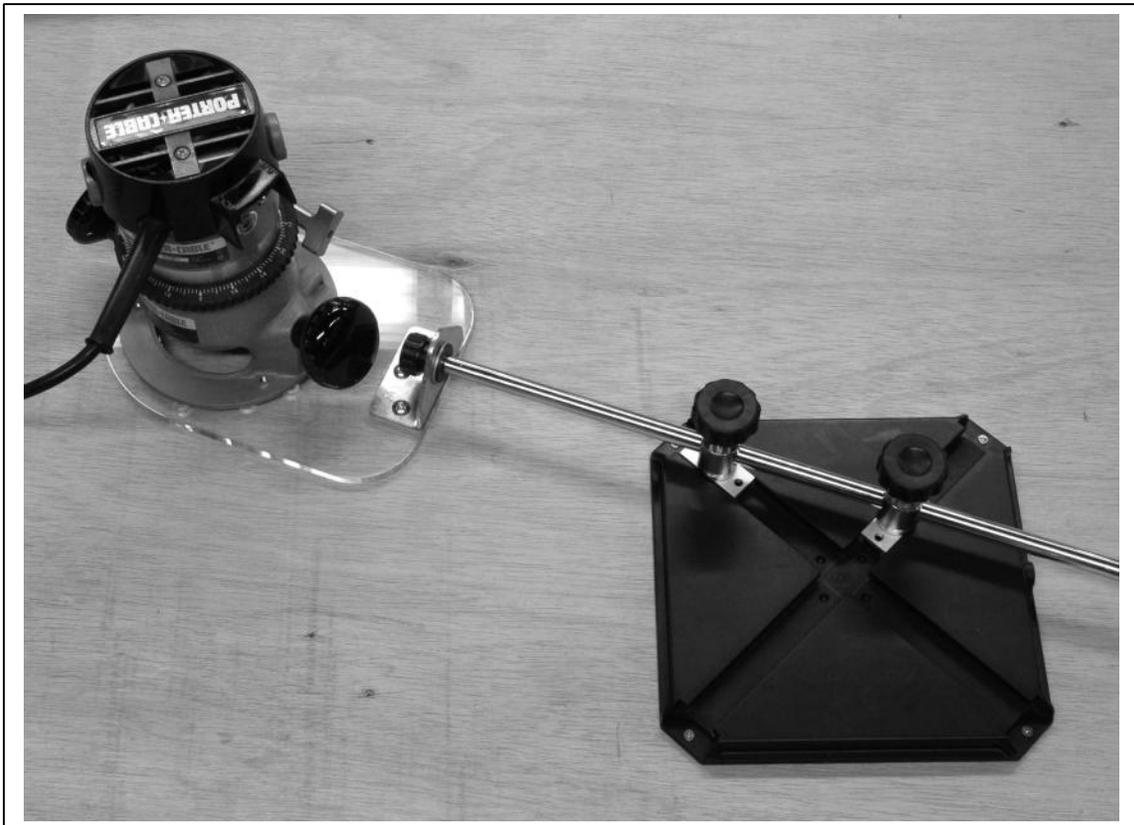
3. Slide (1) T-Bar Sliding Rod Mount (#3) into one of the slots on the Cross Frame (#1). Slide the T-Bar Sliding Rod Mount (#3) to center of the Cross Frame (#1) and secure it in place using the Knurled Head Cap Screws (#10).



4. Slide the Steel Rod (#4/#5) through the hole in the T-Bar Sliding Rod Mount (#3).
5. If you are making an external cut, adjust the distance of the Steel Rod (#4/#5) so the edge of the router bit being used is on the outside of the pencil mark made in step 2. If you are making an internal cut, adjust the distance of the Steel Rod (#4/#5) so the edge of the router bit being used is on the inside of the pencil mark made in step 2.

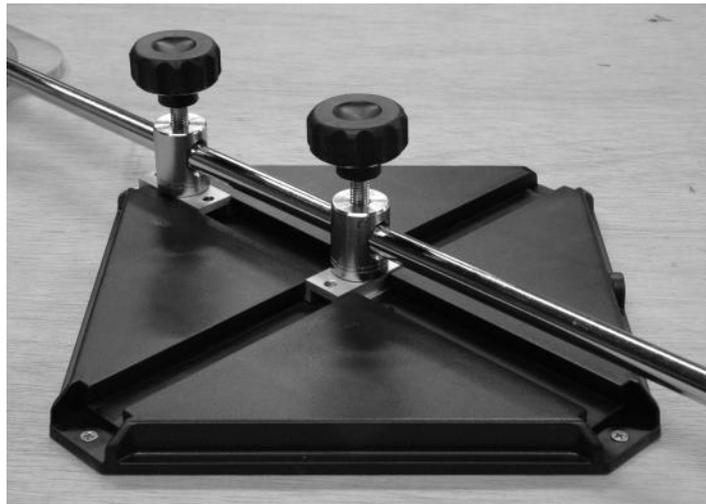
6. Lock the Steel Rod (#4/#5) in this position by turning the knob on top of the T-Bar sliding Rod Mount clockwise.
  7. Depending on the thickness of material being cut and the diameter of the router bit being used, it may take more than one pass to complete your cut. Adjust the depth of your router bit for making your first cut.
  8. If you are using a plunge router you can now start the router and plunge the bit into your stock. If you are using a fixed base router, gently lift the router and Router Plate (#2) above your stock so that the router bit clears the surface of your stock. Turn your router on and slowly lower the Router Plate (#2) allowing the bit to cut into the stock. When the Router Plate (#2) is flat on your stock, allow the jig to make one complete rotation.
  9. Re-adjust your router bit depth and repeat step 8 as needed until you are able to complete your full cut.
  10. Remove the Steel Bar (#4/#5) from the T-Bar Sliding Rod Mount (#3). Remove the T-Bar Sliding Rod Mount (#3) from the Cross Frame (#1). Remove the Cross Frame (#1) from your stock. Properly store the Curve Pro Circle and Ellipse Jig until your next use.
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## Making An Ellipse:

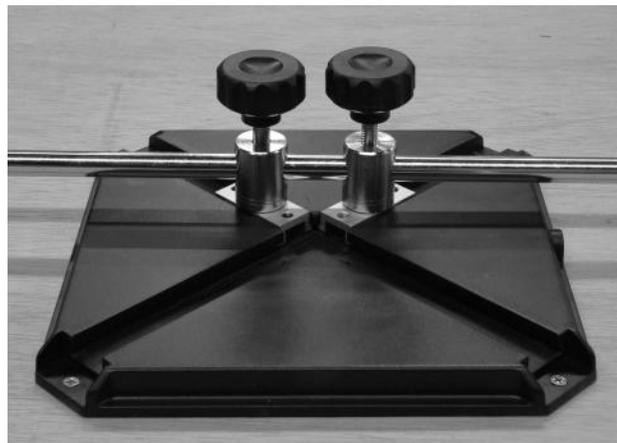


1. Center and attach the Cross Frame (#1) to the bottom of your stock using (4) Brass Countersink Screws (#15).
2. Slide (2) T-Bar Sliding Rod Mounts (#3) into the slots on the Cross Frame (#1), so they are perpendicular to each other.
3. Slide the Steel Rod (#4/#5) through the hole in both of the T-Bar Sliding Rod Mounts (#3).
4. The size of the minor axis on the ellipse will be controlled by the distance between the T-Bar Sliding Router Mounts (#3).

The farther apart they are, the more pronounced the shape of the ellipse will be.



The closer they are together, the ellipse will be more circle-like.





When you have decided the appropriate distance for ellipse shape, secure the Steel Rod (#4/#5) by securing the locking knobs on both of the T-Bar Sliding Rod Mounts (#3).

5. Depending on the thickness of material being cut and the diameter of the router bit being used, it may take more than one pass to complete your cut. Adjust the depth of your router bit for making your first cut.
6. If you are using a plunge router you can now start the router and plunge the bit into your stock. If you are using a fixed base router gently lift the router and Router Plate (#2) above your stock so that the router bit clears the surface of your stock. Turn your router on and slowly lower the Router Plate (#2) allowing the bit to cut into the stock. When the Router Plate (#2) is flat on your stock, allow the jig to make one complete rotation.
7. Re-adjust your router bit depth and repeat step 6 as needed until you are able to complete your full cut.
8. Remove the Steel Bar (#4/#5) from the T-Bar Sliding Rod Mount (#3). Remove the T-Bar Sliding Rod Mount (#3) from the Cross Frame (#1). Remove the Cross Frame (#1) from your stock. Properly store the Curve Pro Circle and Ellipse Jig until your next use.