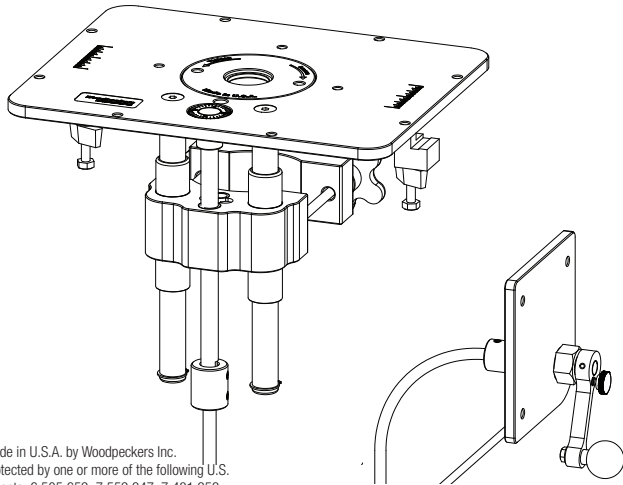


# Side Winder Router Lift.

## INSTALLATION INSTRUCTIONS

Models: SW350



Made in U.S.A. by Woodpeckers Inc.  
Protected by one or more of the following U.S.  
Patents: 6,505,659; 7,559,347; 7,481,253;  
7,108,463 and other patents pending.

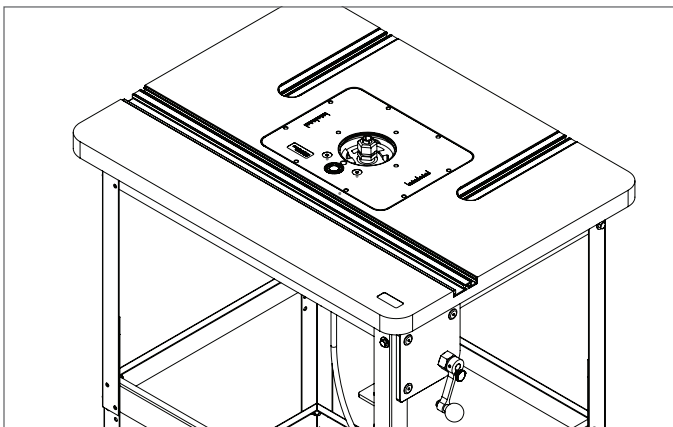
### SAFETY

Always unplug your router motor before making any adjustments to the router lift. Refer to your routers' owners manual for specific safe operating instructions.

### BEFORE YOU BEGIN

The Woodpeckers® Side Winder can be installed in most router tables with a standard 9¼ x 11¼ opening and a side panel mounting surface no more than 19" away as in the side of a cabinet or router table stand. In most cases three holes will need to be drilled for mounting the side plate.

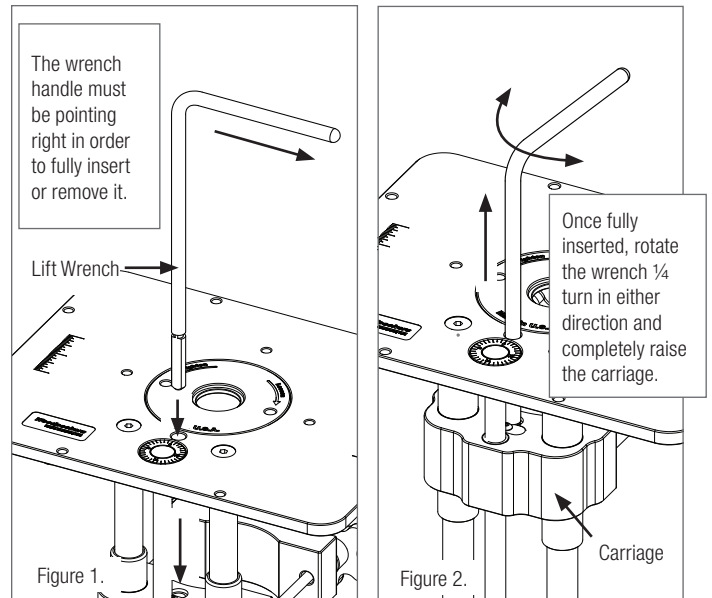
These instructions assume you're installing the Side Winder on a Woodpeckers® Router Table Stand.



Woodpeckers® Router Table Stand, Router Table and Side Winder.

### COMPATIBLE ROUTER MOTORS

The Woodpeckers® Side Winder 350 Router Lift fits the Porter-Cable 690/890, Bosch 1617/1618 and Craftsman models 17542, 17540, 28190 router motors as well as any router motors 3.5" in diameter.



### USING THE LIFT WRENCH

You'll need to know how to use the Lift Wrench to install your router motor.

**STEP 1.** To change the carriage height (the carriage is the part beneath the table that holds the motor), orient the wrench with the handle pointing right. (Figure 1.)

Insert the wrench until it's **COMPLETELY BOTTOMED OUT**. Once it's all the way in, try and rotate it. If it doesn't turn, it isn't in. Do not force the wrench. Take it out, push it back down and try again.

**STEP 2.** Once it turns easily, simply rotate it ¼ turn in either direction to lock the handle to the carriage. Now you can raise or lower your router as needed using the wrench. (Figure 2.)

To install your router motor you need to raise the carriage all the way up and lock it in place by once again orienting the handle to the right. Now remove the lift wrench.

## REMOVE THE RING

**STEP 3.** The Side Winder comes with one ring installed. This ring needs to be removed in order to install your motor. Loosen the ring by turning it **CLOCKWISE** with the spanner wrench. To put one back in, rotate it counter-clockwise.

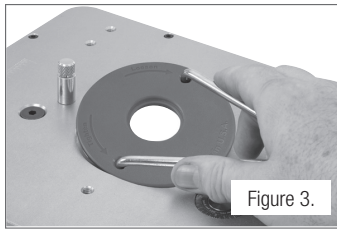


Figure 3.

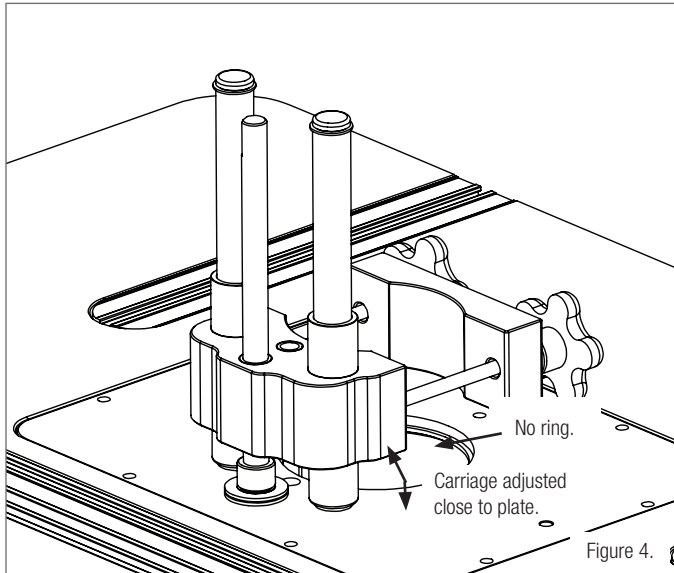
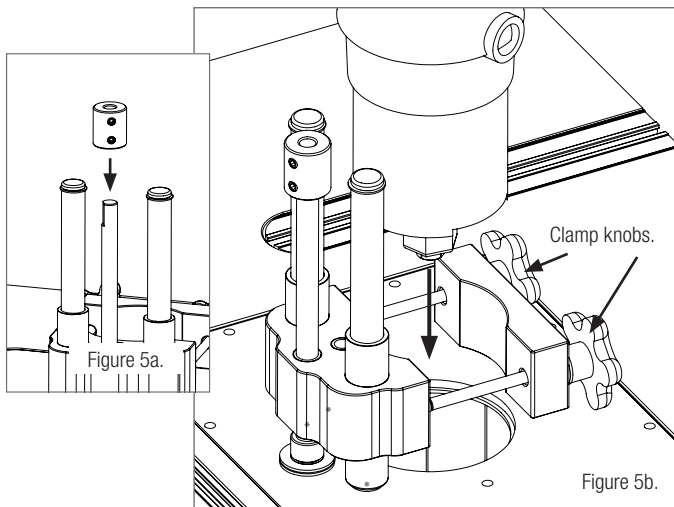


Figure 4.

## INSTALLING YOUR ROUTER MOTOR

**STEP 4.** Make sure the carriage has been raised to the top, locked and the lift wrench has been removed. Then remove the lift from the table, flip it over and set it back into the table opening as shown in Figure 4.



**STEP 5.** Make sure the clamp knobs are backed off enough to allow your motor to slide in. Loosely set a coupling on the lift screw. (Figure 5a). Slowly drop the router into place. Support the motor so it just begins to go through the opening in the plate. (Figure 5b).

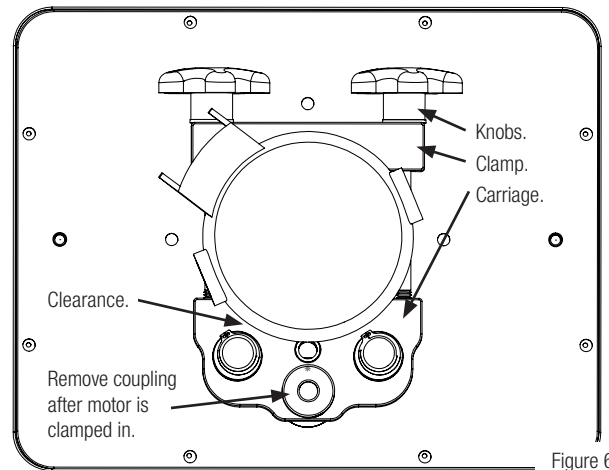


Figure 6.

**STEP 6.** Evenly snug the two knobs. They are self locking so they won't spin freely. Before you finish tightening the knobs, make sure that all parts of the router are well clear of the two posts and lift rod. Figure 6 shows the approximate position of a PC 690 motor relative to the posts. Now remove the coupling from the lift rod and set it aside for later.

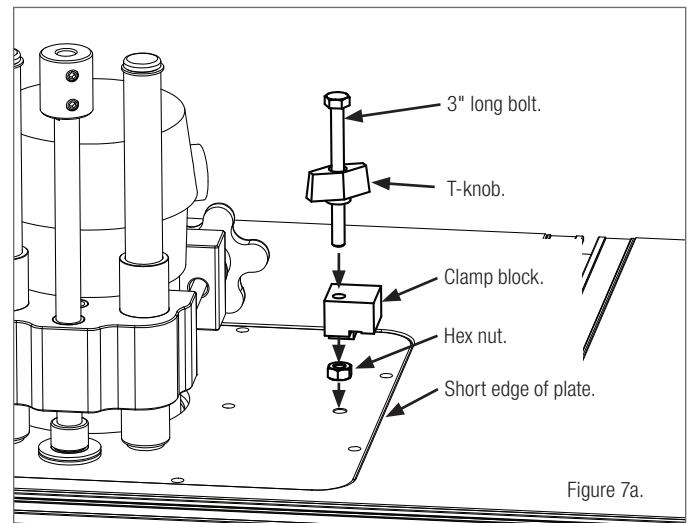
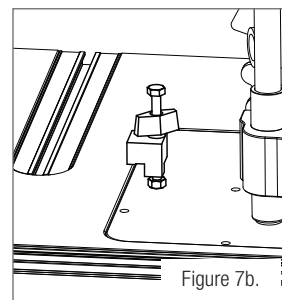


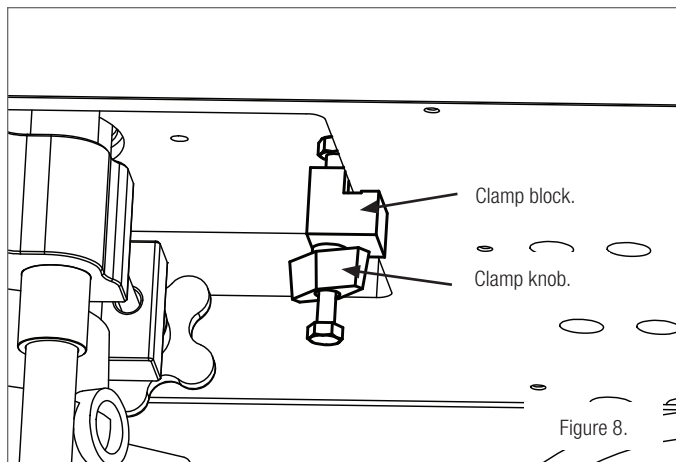
Figure 7a.

## INSTALL THE TWO CLAMP BLOCKS

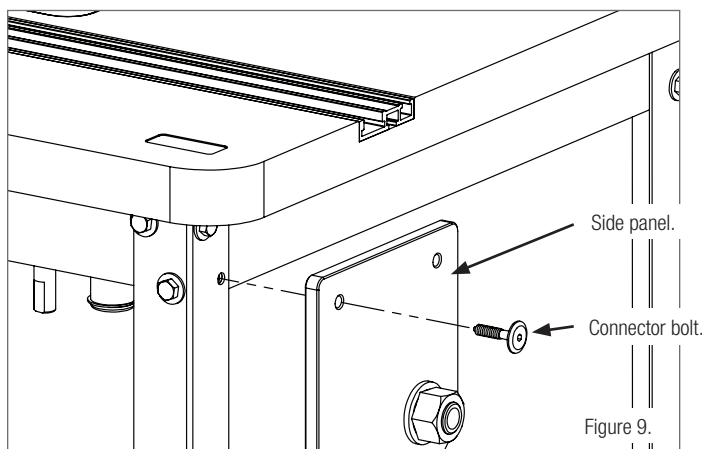
**STEP 7.** Carefully study Figure 7a. Thread one of the small T-knobs onto a 3" long bolt with the top of the knob going on the bolt first, toward the hex head. Now slip a clamp block onto the bolt oriented as shown above with the flat side facing the knob. Then thread a hex nut about  $\frac{1}{2}$ " up the bolt. And finally, thread the bolt into the threaded hole centered near the short edge of the plate. If needed, use a  $\frac{7}{16}$ " wrench to lightly snug the bolt into the plate. (cont'd.)



DO NOT OVERTIGHTEN THE BOLT. Overtightening will damage the plate. Snug the hex nut against the plate. (Figure 7b). Repeat the same steps for the other clamp block.



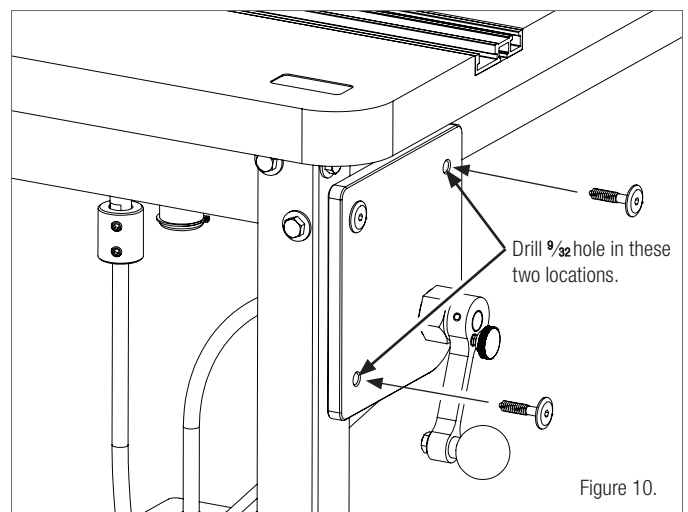
**STEP 8.** Once your router motor and the two clamp blocks have been installed, remove the Side Winder from the table and set it back in, right side up. From underneath the table rotate the clamp blocks in place and tighten the two knobs. The clamp blocks hook under the edge of the table opening. (Figure 8).



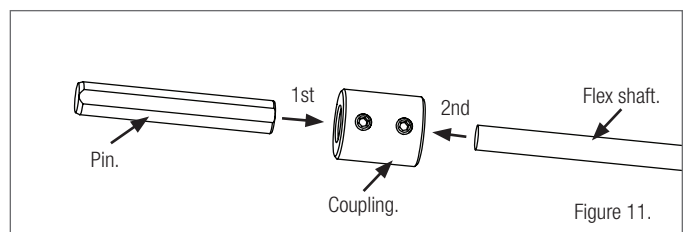
## SIDE CRANK INSTALLATION ON A WOODPECKERS® ROUTER TABLE STAND

This section assumes you're installing the Side Winder onto a Woodpeckers® Router Table Stand.

**STEP 9.** Remove the existing hex bolt from the inside corner of the router table stand and attach the side panel using one of the connector bolts and hex nuts. (Figure 9).

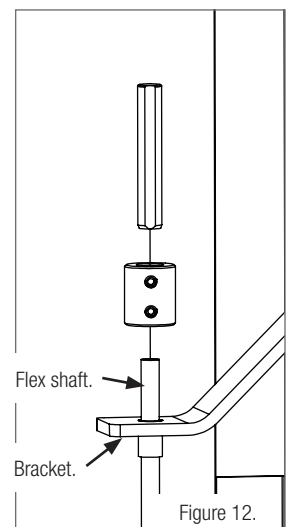


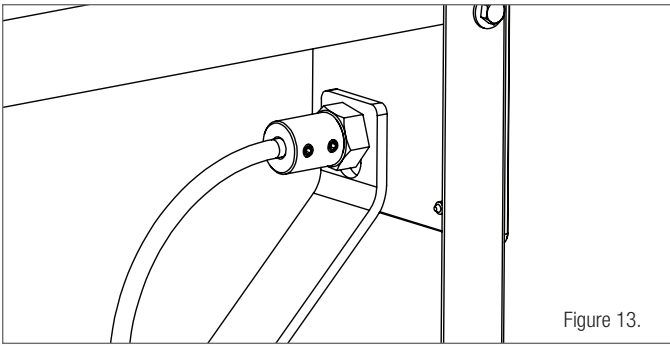
**STEP 10.** Using the side panel as a guide, drill two  $\frac{9}{32}$  dia. holes through the router table stand. Fasten the panel in place using the remaining two connector bolts and nuts. (Figure 10).



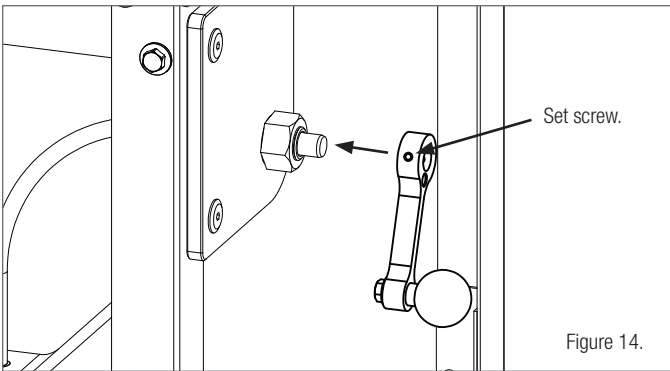
**STEP 11.** First slip the pin into a coupling until it bottoms out. Tighten the set screw onto the flat of the pin. Now push the flex shaft into the other end of the coupling. Tighten the remaining set screw onto the flex shaft. Now loosen the first set screw and remove the pin. You'll need it for the next step. (Figure 11).

**STEP 12.** Insert the pin into the remaining coupling and tighten the set screw on the flat just like before. Set the coupling aside for now and thread the bare end of the flex shaft up through the bearing in the bracket. Secure the coupling onto the end of the flex shaft. Now both ends of the flex shaft should have couplings attached and the end going up through the bracket should have the pin installed as well. (Figure 12).



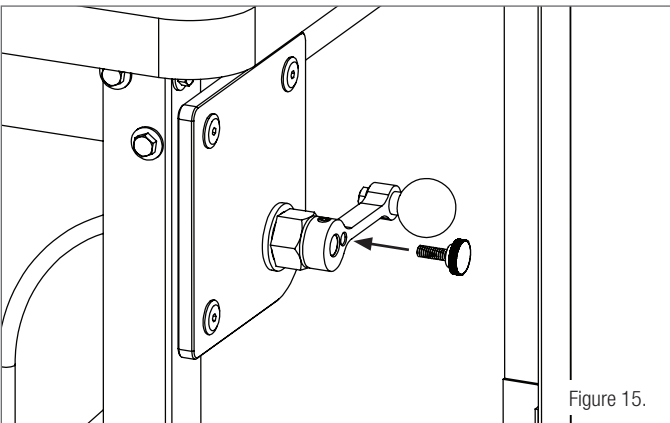


**STEP 13.** Apply a dab of grease to the outside of the pin and insert it through the hole in the bolt. **This will take some effort.** Be careful not to kink the flex shaft. Bend it just enough to get the pin through the hole. Optionally you can loosen the large bolt holding the bracket to the side panel. Do not completely remove the bolt. When finished make sure the bracket is hanging straight down and re-tighten the large bolt. (Figure 13).

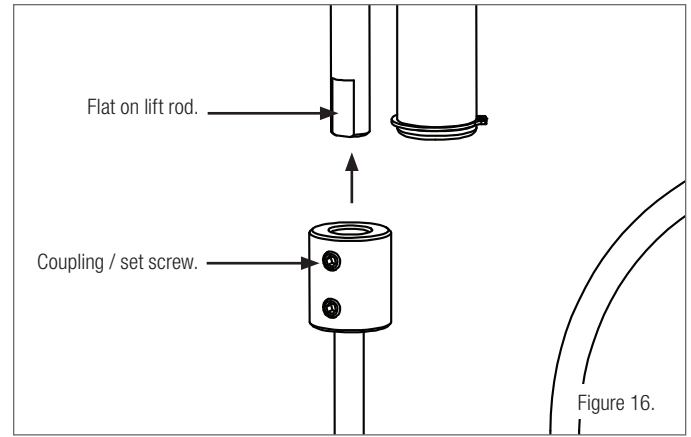


**STEP 14.** From the outside, slip the crank handle onto the pin, align the end of the pin with the face of the handle, align the set screw with the flat spot on the pin and tighten the screw. (Figure 14).

Double check that the handle has a little bit of in and out play. If it's tight, the handle will not crank freely.



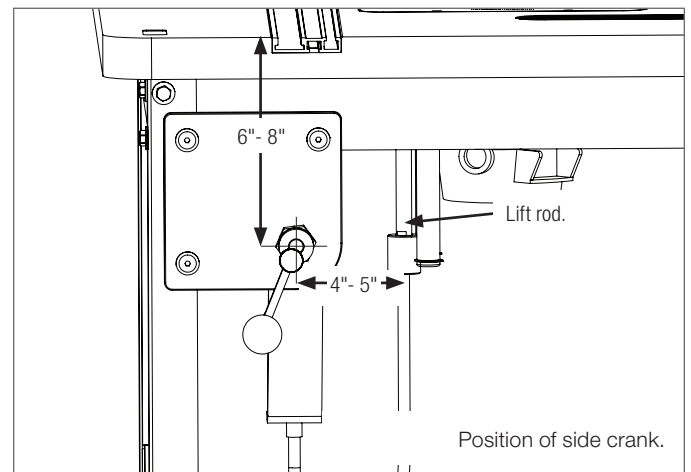
**STEP 15.** Install the brake knob into the threaded hole in the handle. (Figure 15). Do not tighten the brake knob until it's needed. It's typically used when doing heavy routing.



**STEP 16.** Rotate the crank handle so that the set screws in the coupling on the other end of the flex shaft align to the flat spot on the lift rod. Slip the coupling onto the lift rod and tighten the screw. (Figure 16).

## TESTING THE CRANK ASSEMBLY

Test the crank assembly by slowly turning the handle and watching the round scale on the top of the lift. If the scale isn't turning when you're rotating the crank handle then one of the set screws isn't tight. It's most likely to be one of the set screws at either end of the flex shaft locking it to the coupling. Double check that those two screws are tight. After that make sure that the set screws in the handle and couplings are against the flats on each shaft.



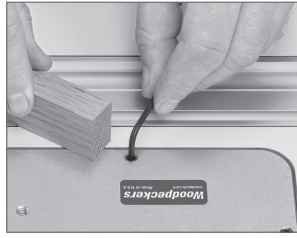
## SIDE WINDER INSTALLATION ON NON-WOODPECKERS® ROUTER TABLE STANDS.

The Woodpeckers® Side Winder can be installed on non-Woodpeckers® cabinets and router table stands. The above illustration shows the general location of the crank handle relative to the router table top and router lift. It's recommended that the side panel be mounted in its entirety and not disassembled.

## GENERAL OPERATING INFORMATION

### LEVELING THE PLATE

Before adjusting the leveling screws you need to loosen the clamp knobs underneath the table. There are eight set screws around the perimeter for adjusting the height of the plate relative to the table. Initial leveling should be done with just four of the screws, two each on opposite ends of the plate. Once the plate feels flush, use a block of wood to make sure it doesn't catch going either direction then adjust the remaining screws.



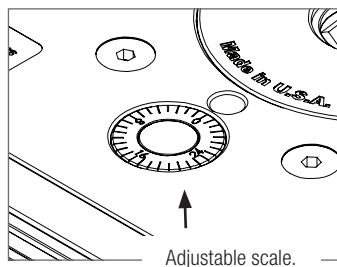
### ROUTINE MAINTENANCE

The Side Winder is made primarily from aluminum and steel parts. The steel parts will have a light coating of petroleum jelly when it leaves the factory. After unpacking, if necessary, clean aluminum parts, including the main plate, with mineral spirits or lacquer thinner. Do not use any water based cleaner. The two steel posts should be wiped with a clean rag and lubricated with petroleum jelly or a very light machine oil. The flex shaft can be periodically sprayed with a lubricant such as WD40 then wiped dry.

Minor surface rust on any steel parts can be removed with abrasive nylon pads like a scotch bright pad. All steel parts should be kept lubricated with petroleum jelly or thin machine oil, particularly the posts and lift screw.

### ADJUSTING THE SCALE

The adjustable scale is used to reference the amount of height change relative to a starting position. One rotation equals  $\frac{1}{32}$ ". Each line equals .001". The scale can be adjusted by applying downward finger pressure then rotating it in either direction. Built in friction keeps it from free spinning.



### CHANGING BITS

First use the spanner wrench to remove the Twist Lock Ring. Now use the lift wrench to raise the router chuck completely above the plate. Use the wrenches supplied with your router to change the bit. (Image may not match your Side Winder but the process is the same.)



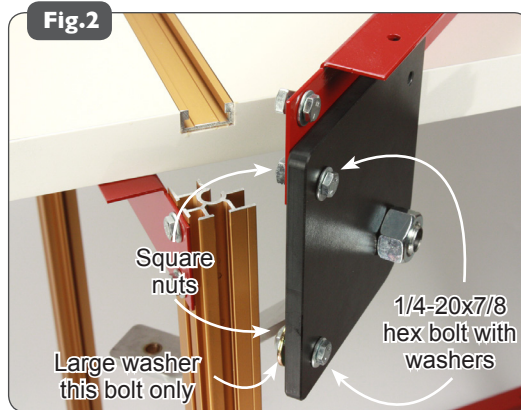
# Side Winder Side Crank Installation on INCRA Router Table Stands



**Note: This addendum replaces Fig/Step 10 & Fig/Step 11 of the Woodpecker provided mounting instructions. Please follow all assembly instructions of the original manual up to Fig/Step 10 before using this addendum.**

If your INCRA router table stand is already assembled you will first need to remove the table top and remove the front top stretcher. Remove the lower 1/4-20 x 1/2" hex bolt from the left end of the stretcher, **Fig. 1**. Loosely attach the Side Winder Crank's side panel to the stretcher using the provided 1/4-20 x 7/8" hex bolt, washer and square nut. Place another 1/4-20 x 7/8" hex bolt with washer through the lower hole on the Crank's side panel and add the large gold washer to the fastener before loosely threading on the square nut, **Fig. 2**.

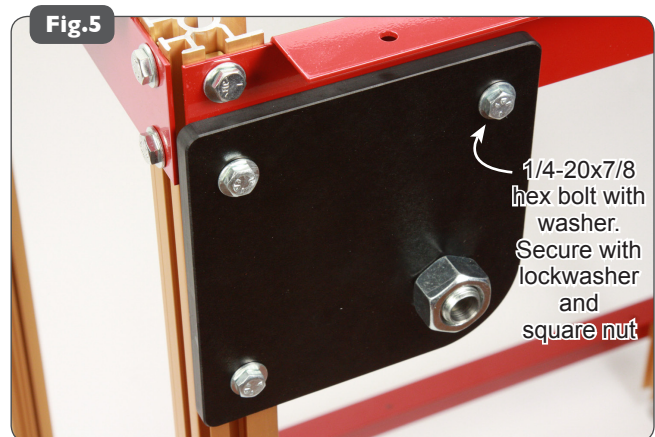
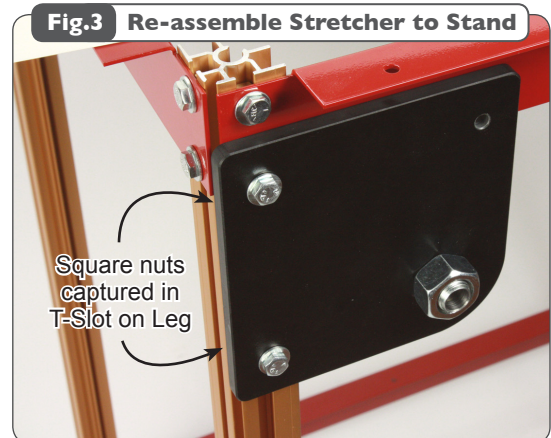
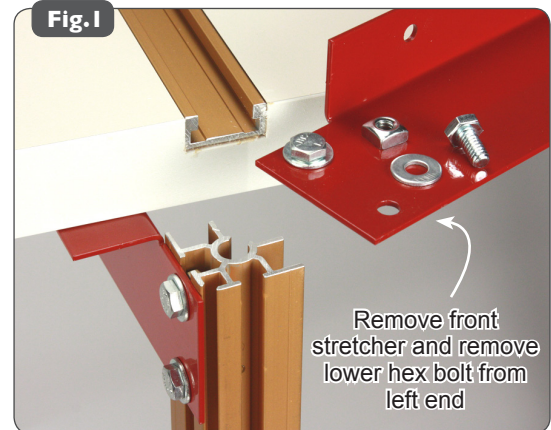
Re-assemble the stretcher to the stand sliding all 3 of the square nuts on the left end of the stretcher into the t-slot in the leg. Make sure the Crank's side panel is parallel to the leg before tightening all of the mounting bolts, **Fig. 3**.



Using the remaining hole in the side panel as a guide, drill a 9/32" hole through the front stretcher, **Fig. 4**.

Place a flat washer on the remaining 1/4-20 x 7/8" hex bolt and insert through the hole on the side panel. Add a split lockwasher and a square nut then tighten the assembly in place, **Fig. 5**.

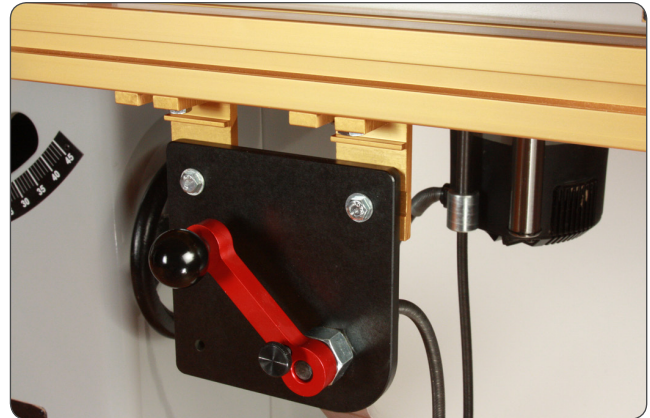
Continue with Fig/Step 12 in the Side Winder Owner's Manual.



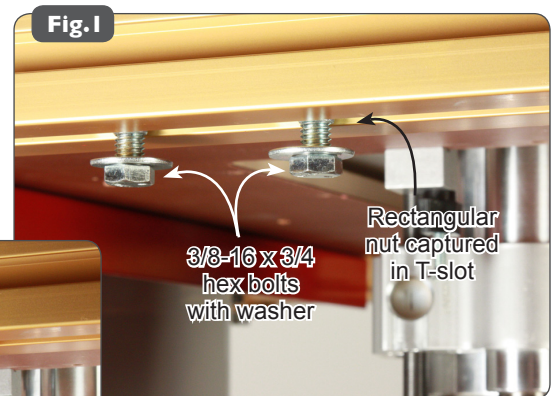
# Side Winder Side Crank Installation on INCRA Table Saw Systems



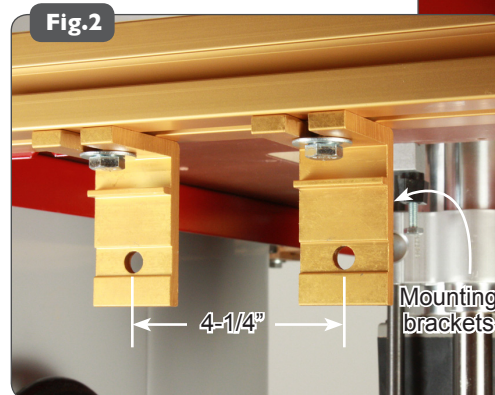
**Note:** This addendum replaces Fig/Step 10 & Fig/Step 11 of the Woodpecker provided mounting instructions. Please follow all assembly instructions of the original manual up to Fig/Step 10 before using this addendum.



Add a large flat washer to each of the 3/8-16 x 3/4" hex bolts and thread a 3/8-16 rectangular nut onto the end of each bolt. Slide the rectangular nut on each of the bolt assemblies into the T-slot located on the underside of your INCRA TS System's front rail and position the bolts close to your router, **Fig. 1**. (You'll be able to adjust the final position after full assembly.)

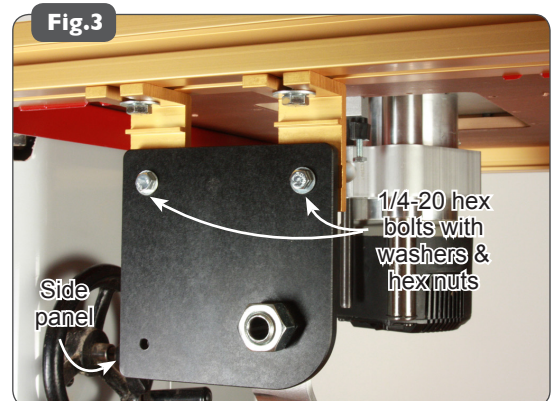


Slide the slotted end on each of the mounting brackets all the way onto the bolts as shown in **Fig. 2** then position the brackets so that the 2 holes are approximately 4- 1/4" apart. Finger tighten the 2 bolts.



Attach the Side Winder Crank's side panel to the brackets using (2) 1/4-20 x 1-1/2" hex bolts with washers and hex nuts, **Fig. 3**.

Be sure to place a split lock washer on the end of the bolt before threading on and tightening the hex nuts. Tighten the (2) 3/8-16 hex bolts that secure the brackets to the underside of the rails.



Continue with Fig/Step 12 in the Side Winder Owner's Manual.

**TIP:** Moving the bracket/crank assembly to the left or right along the rail can improve how easily you are able to rotate the crank handle. After you have attached the flex shaft to your router, try sliding the bracket/crank assembly to different positions left or right to find the easiest crank rotation. In general, the more relaxed the lower loop or "U-turn" is on the flex shaft, the easier the crank will rotate.

Manufactured by:

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P.O. BOX 810262 Dallas, TX 75381  
www.incra.com

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