



# **Instruction Manual**

## **Cabinet Table Saw Alignment**

# Phase 1

## Aligning the Miter Slot with the Saw Blade (Scratch Test)

1. Unplug the table saw.
2. Raise the saw blade up through the table  
(**Figure 1**).
3. Make a reference tooth: Mark one of the carbide tips with a magic marker (**Figure 2**).
4. Use the miter slide and a marker to test if the saw blade is parallel to the miter slot. Place the end of the marker against the miter gauge (**Figure 3**). Rotate the reference tooth so it is in the front location. While holding the marker against the miter slide, move the tip of the marker cap to the reference tooth so it slightly scratches against the carbide (**Figure 4**).
5. Continue holding the marker securely while sliding the miter slide to the back of the saw blade (**Figure 5**). With your other hand, rotate the reference tooth until it comes in line with the marker.
6. If the saw blade is properly aligned to the miter slot, the referenced tooth should scratch the same on the marker tip in the back location as in the front location. If this is the case, your table saw blade is parallel to the miter slot. Proceed to Phase 2, "Aligning the Table Saw with the Rip Fence". If it is not in line, keep following the next steps.
7. Since your saw blade is out of alignment with the miter slide groove, determine what type of table saw you have in order to make the next adjustment: Direct drive vs. Belt pulley.



**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**



### Direct Drive:

- Direct drives have the saw blade directly mounted to the motor spindle. Slightly loosen the motor mounts from the bottom of the table. Slightly rotate the motor to make the saw blade parallel to the miter slot. Retighten the bolts or nuts. Repeat the front and back scratch test until it shows the miter slot is parallel with the reference tooth in both front and back locations. Proceed to Phase 2, “Aligning the Table Saw with the Rip Fence”.



Figure 5

### Belt Pulley:

- A belt pulley system has the motor independent of the saw blade shaft. The motor is connected to the frame of the table saw with a belt connecting the motor to the saw blade shaft. The table top is independent of the saw blade housing unit. Locate where the table top connects to the frame and slightly loosen the bolts to rotate the table (**Figure 6**). Make it parallel to the saw blade by using the front and back scratch test. Repeat the front and back scratch test until it shows the miter slot to be parallel with the reference tooth in both front and back locations. Proceed to Phase 2, “Aligning the Table Saw with the Rip Fence”.



Figure 6



## Phase 2

### Aligning the Table Saw with the Rip Fence

1. Use an aluminum or wooden level that is 12" or longer to create a parallel reference point. (Note: Aluminum will not chip a carbide tooth, however, a steel level or steel ruler might).
2. Place the aluminum level against the side of the saw blade and slide the rip fence over so it is just about touching the level (**Figure 7**). Lock the rip fence lever down. Check if the rip fence is parallel to the level (**Figure 8**). If it is not parallel, make proper adjustments. Some table saws have bolts or set screws to loosen for adjustments to the rip fence. Look in your owner's manual for directions in adjusting your rip fence. If you need more help adjusting your rip fence, contact the manufacturer of your table saw.
3. To reduce kick-back, loosen your adjustments on the rip fence and slide a folded dollar bill in half (used as a spacer) between the rip fence and the aluminum level behind the back edge of the saw blade (**Figure 9**). Tighten the rip fence adjustment to hold its position securely. Remove the dollar bill. Notice there is a slight clearance in the back of the rip fence. This will help keep the back of the saw blade from being pinched while the cut is being made.



Figure 7

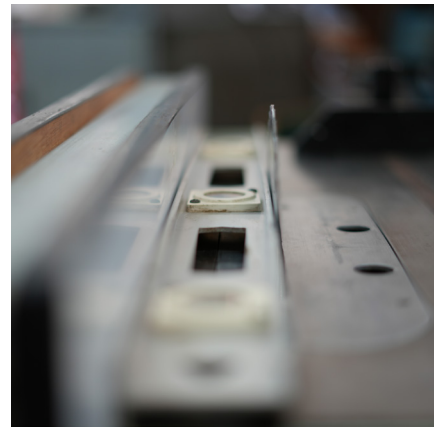


Figure 8



Figure 9

**Please keep the original box to send this blade back to Total Saw Solutions for proper flattening and sharpening to maintain the perfect cut. Include your name and phone number.**

