

*CV1B Sliding Table  
Installation and Setup Guide*



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The CV1B is a professional sliding table that, when set up properly, can provide the woodworker with outstanding control and accuracy. Contained in this guide are the basic steps to the installation and calibration of the CV1B. As in most woodworking, there are many different ways to do things. The same is true here. There are many

different techniques and tools that can be used to determine squares and straight edges. The purpose of this guide is to acquaint the new Rojek woodworking machinery owner with the location and method of making the necessary adjustments to the sliding table.

## CV1B Sliding Table Installation

### Step 1

#### ***Install mounting brackets.***

Prior to installing mounting brackets, ensure that the support bar height adjustment bolt (see Step 3) is installed in both brackets along with locking nut. Using bolt, lock washer and large metal spacer, install brackets to the bottom of the cast saw table with open gap facing away from machine body as shown in photograph I-A. Position brackets as far forward toward the sliding table as possible and tighten securely using metric wrench provided.



I-A Table support mounting bracket.

### Step 2

#### ***Install sliding table's round roll bar.***

First install the bolt and lock washer into the roll bar's center location as shown in photograph I-B. Complete the installation into the second bracket as shown and tighten securely using metric allen wrench provided.



I-B Table roll bar.

### Step 3

#### ***Install sliding table's flat support bar.***

As with the round roll bar, first install the bolt, washer and lock washer into the table support bar's center location as shown in I-C. One edge of the bar is milled flat and unpainted. This edge must be positioned facing up. Complete the installation into the second bracket and ensure that the bar "bottoms out" on each mounting bracket's support bar height adjustment bolt as illustrated in I-C. Tighten securely using metric allen wrench provided.



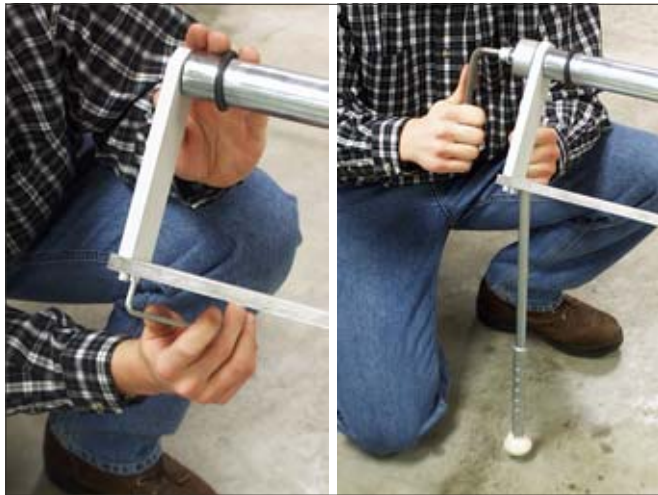
I-C Table support bar.

## CV1B Installation *continued.*

### Step 4

#### ***Install bar connecting brace and bar support leg.***

First, slide O-ring onto round roll bar as shown in I-D. Next, install bar connecting brace with two bolts, washer and lock washers as shown. Then, install bar support leg as shown. Leave bar support leg hanging loosely, do not adjust to touch ground at this point. Adjustment will be done during Setup and Calibration.



I-D Bar connecting brace and support leg.

### Step 5

#### ***Install sliding table support leg.***

If necessary, install the table support leg under the table using three bolts and lock washer as shown in photograph I-E. Note proper angle of leg and bearing assembly. Tighten securely using metric allen wrench provided.



I-E Sliding table support leg.

### Step 6

#### ***Install sliding table.***

As shown in I-F, install sliding table first onto round roll bar by positioning dust wipers on the bearing assemblies at proper angle to enable sliding onto the bar.

*Note: Should the bearing assemblies be too close together to fit onto the round roll bar, see Setup and Calibration for how to loosen and adjust bearings.*

Complete sliding the table onto the two bars by positioning remaining dust wipers and ensuring the sliding table support leg bearing rests on the flat steel support bar as shown in I-G.



I-F Sliding table dust wipers.



I-G Sliding table

#### **Caution:**

Ensure that the sliding table slides smoothly on the support bars. If the sliding table support leg is rubbing the rail, adjust the cam bearing on the leg so that it is near its highest point (see Setup and Calibration Step #5).

## CV1B Installation *continued,*

### Step 7

#### ***Install roll bar O-ring and end cap.***

Slide O-ring onto round roll bar and install end cap as shown in I-H.



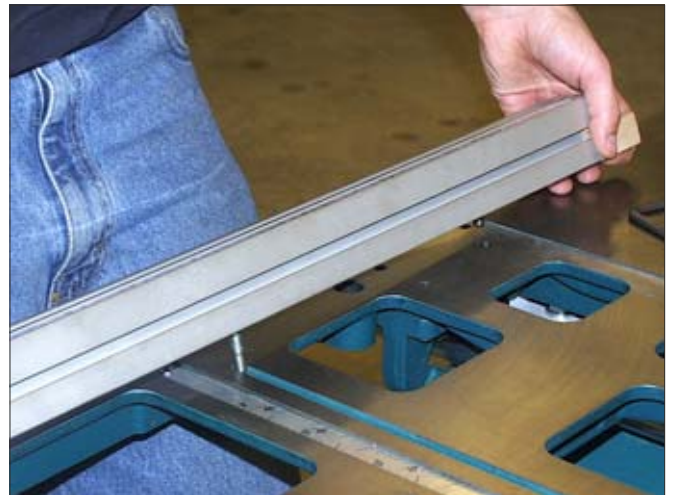
I-H Roll bar O-ring and end cap.

### Step 8

#### ***Install crosscut fence.***

The crosscut fence has a sliding pin at the end with the wood block that fits into the hole at the edge of the table and acts as a pivot point for the fence. Insert the sliding pin in the hole and the threaded bolt into the slot in the table (as shown in I-I) and secure underneath with the washer and knurled plastic knob provided.

*Note: The crosscut fence can be mounted to either side of the sliding table.*



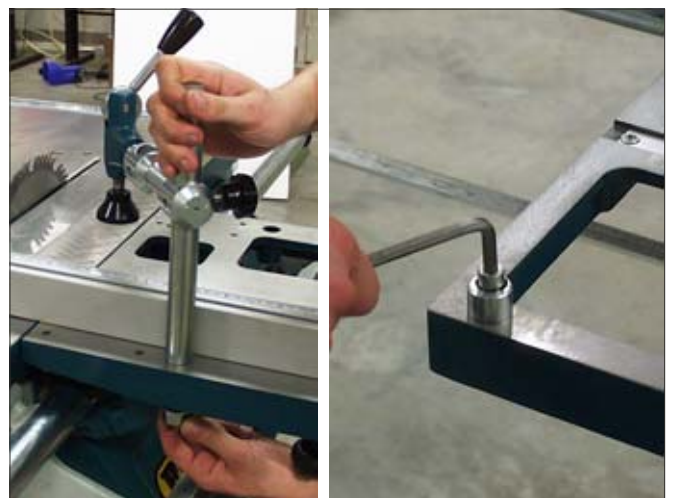
I-I Crosscut Fence.

### Step 9

#### ***Install wood clamp.***

First install the wood clamp post and secure tightly with washer and nut provided as shown in I-J. Slide clamp onto post and secure with knurled knob and bolt. (The wood clamp can be mounted onto post through either hole).

*Note: The wood clamp can be mounted to either side of the sliding table.*



I-J Wood Clamp and Crosscut Fence 0° positive stop.

### Step 10

#### ***Install crosscut fence 0° positive stop.***

The positive stop mounts to the outside edge of the sliding table with the bolt provided, as shown in I-J. The positive stop and crosscut fence will be calibrated later during Setup and Calibration.

*Note: The positive stop can be mounted to either side of the sliding table.*

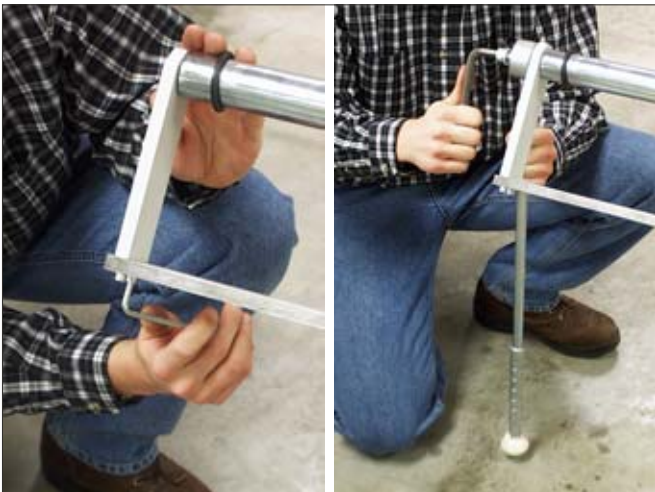
## CV1B Sliding Table Setup & Calibration



S-A Checking level of round roll bar.



S-B Adjusting flat support bar height adjusting bolt.



S-C Bar connecting brace and support leg.

Tools required not supplied with the machine:  
One (1) 4 foot level with accurate straight edge.  
One (1) large square.  
One (1) short handle (<4") standard screwdriver.

Step 1.

### ***Place and Level Table Saw.***

After placing saw in desired location, adjust its level in both directions by raising or lowering the adjustable feet.

Step 2.

### ***Level round roll bar.***

- To adjust the round roll bar so that it is level with the cast saw table, loosen bolts on the bracket that needs to be lowered and insert appropriate sized shims between the bracket and the bottom of the cast saw table.
- Tighten bolts securely and re-check level.
- Once the round roll bar is level, adjust support leg to plant firmly on the ground. Double-check level along entire length of round roll bar.

Step 3.

### ***Level sliding table support bar.***

The support bar should be adjusted to run parallel and level with the round roll bar. The support bar will determine how level the sliding table remains during travel from one end of the crosscut to the other.

- First, loosen the bar's bracket mounting bolts, as well as the mounting bolts on the support leg and connecting brace, just enough to allow the bar to move freely when adjusting.
- Using a level, adjust the height adjustment bolts (as shown in S-B) to level the support bar from end to end.
- Once in the position desired, tighten lock nut on height adjusting bolt against bottom of mounting bracket to lock setting.
- Adjust the connecting brace so that the far end of the bar is level and re-tighten the connecting brace and support leg bolts as well as the bar's bracket mounting bolts.

Once the sliding table setup is completed, you can verify the accuracy of this adjustment by checking the level of the sliding table itself as it travels from one end of the crosscut to the other.

## CV1B Setup & Calibration *continued*,

### *How to adjust the sliding table cam bearings to set table height and level:*

- a. On the underside of the sliding table are two clusters of three ball bearings that travel along and secure the table to the round roll bar. There is also one ball bearing on the table leg that provides support for the outside table edge.
- b. Each bearing is mounted on a cam that is adjusted with a screwdriver as shown in S-E. This serves to raise or lower the bearing.
- c. The bearing and cam is locked with the Allen set screw on the side of the bearing assembly (see S-E).

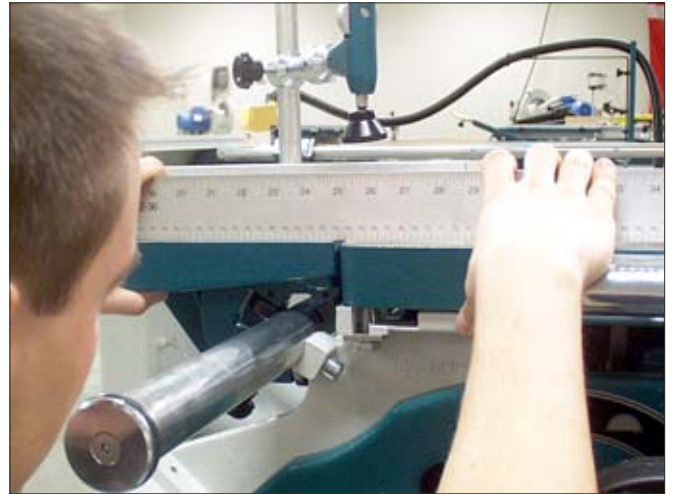
Adjusting the sliding table height and level requires adjusting all three sets of bearings. Each affects the other. So, you will be going back and forth from Step 4 and Step 5 until the table is aligned to your satisfaction.

#### Step 4.

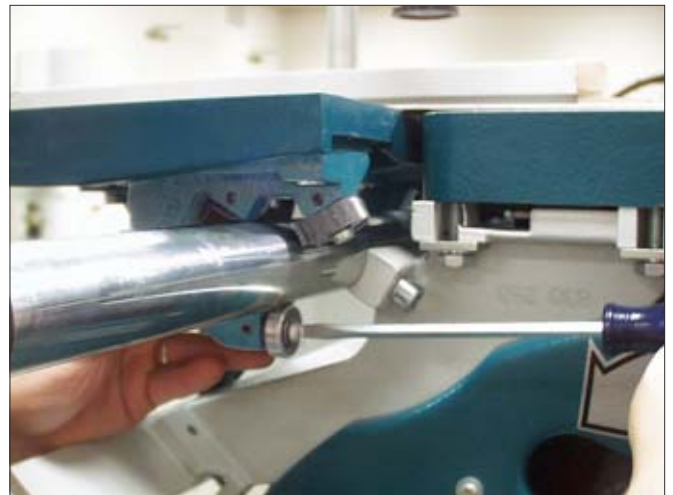
##### ***Adjust sliding table height.***

The sliding table should be set to be just slightly higher than the cast saw table. Ideally, this would be approximately 1/64" (3mm). The two clusters of three bearings resting on the round roll bar control the table height.

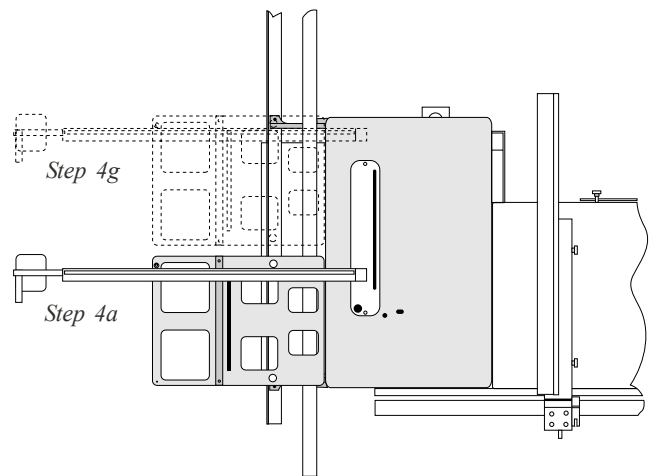
- a. Adjust the front edge of the sliding table first by placing the table so that the front edge of the table is in a straight line with the front of the saw table as shown in Illustration S-F.
- b. With a straight edge, check the height relative to the cast saw table as shown in S-D.
- c. To adjust, first loosen set screw and adjust bottom cam so that it drops down allowing slack so the top two bearings can be re-positioned as shown in S-E.
- d. Loosen set screws on top two bearings and adjust each bearing cam to raise or lower table. Tighten set screw to lock in setting.
- e. Raise bottom bearing cam until it is firmly against round roll bar and re-tighten set screw.
- f. Do Steps 5a-5c and set the level of the sliding table in this position. Notice that this changes the height setting. Repeat Steps 4b-4f until the table is adjusted properly in this position.
- g. Next, position sliding table so that the back edge of the table is in a straight line with the back of the saw table, as shown in Illustration S-F, and



S-D Checking sliding table height relative to saw table.



S-E Adjusting cam action of bearings to set table height.



S-F Sliding table positions for setting height & level.

## CV1B Setup & Calibration *continued*,

repeat Steps 4b-4f for the second cluster of bearings.

- d. Using the straight edge, run the sliding table from the front of the cast saw table to the back. If the sliding table does not remain level from one position to the next, repeat Step 3 to re-adjust the sliding table support bar.
- h. Once the table has been aligned to your satisfaction, skip to Step 6.

### Step 5.

#### ***Calibrate sliding table level.***

The sliding table should be adjusted to be level with the cast saw table. The bearing resting on the flat support bar controls the attitude of the table and thus its level.

- a. With a straight edge, check the level of the sliding table relative to the cast saw table as shown in S-G.
- b. Loosen set screw and adjust bearing cam to raise and lower the outside edge of the sliding table. Adjust until the straight edge runs evenly across cast saw table.

### Step 6.

#### ***Adjust crosscut fence and 0° positive stop.***

- a. Using an accurate square, adjust the crosscut fence until it is 90° to the saw blade as illustrated in S-H. Lock this position in place with knurled plastic knob under the table.
- b. With the crosscut fence locked in a 90° position from the saw blade, set the 0° positive stop, as shown in S-I, until the cam action brings the stop into contact with the fence. Lock the positive stop.
- c. Loosen two Phillips head screws securing angle ruler and adjust ruler so that the edge of the fence is even with 0°. Re-tighten screws.

### Step 7.

#### ***Adjust sliding table travel.***

The sliding table should not run exactly parallel to the saw blade. Ideally, the sliding table should run away from the back teeth of the blade by less than 0.05mm over one meter of travel. This is called free cut.



S-G Adjusting cam action of bearing to set table level.



S-H Adjusting crosscut fence.



S-I Adjusting crosscut fence positive stop.

## CV1B Setup & Calibration *continued*,

### **Checking free cut:** (see Illustration S-J)

- An easy way to check this is by using your ears to compare the noise of the front teeth with that of the back teeth as you make a cut.
- Raise the saw blade to its maximum height. You will need a workpiece that is shorter than the distance between the front and back teeth and long enough to hold comfortably against the crosscut fence.
- Lay the workpiece against the crosscut fence and start your cut. Hold the workpiece firmly after the front teeth have cut and carry on past the back teeth.
- As you pass the back teeth you should feel rather than hear a slight tingling or whisper.
- If there is no sound from the back teeth, you probably have too much free cut. If the noise from the back teeth is similar to that from the front teeth, the free cut is negative and the table is running in towards the back of the blade. If either of these two occur, you need to go to Step f and move one end of the sliding table inwards or outwards to correct the free cut.

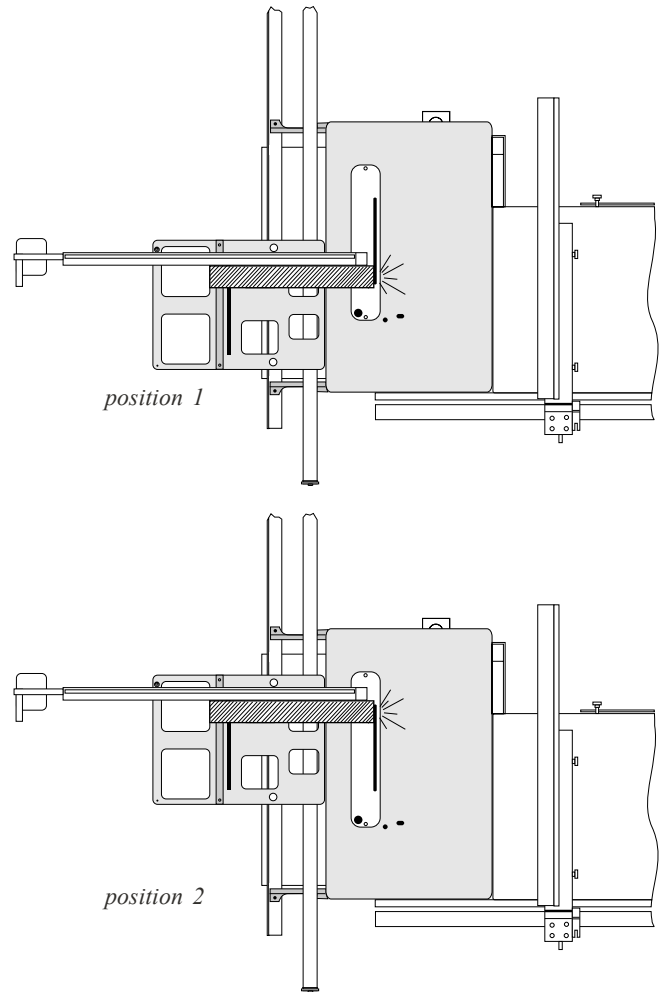
### **Adjusting travel:**

- To adjust the travel of the sliding table, it doesn't really matter whether you move the front out or the back in (or vice-versa). The only consideration is that there is enough clearance between the sliding table and the cast saw table.
- Loosen the vertical bolts holding the mounting bracket to the cast saw table at the end you have decided to move.
- Slide the bracket either in or out, as indicated by arrows in S-K, to make required adjustment.
- Re-tighten vertical bolts and re-check free cut. If still not correct, repeat adjustment.

### Step 8.

#### **Re-Adjust crosscut fence and 0° positive stop.**

- If an adjustment was necessary in the position of the support brackets in Step 7, repeat Step 6 to re-adjust the crosscut fence.
- Re-check sliding table travel by repeating Steps 7a-7e.



S-J Illustration of checking free cut.



S-K Table support mounting bracket.