SCMI Rip Kit Installation Instructions

Please note this installation kit is designed solely for installation on SI12/SI16 Sliding Table Saws, rip fence. Accurate Technology manufactures kits for other SCMI sliding table saws in which some or all of the components may be different. For more information about ProKits™ feel free to contact Accurate Technology.

SAFETY WARNING

To avoid injury: Before installing ProScale on a machine, turn off the machine and disconnect it from its power source.

Warranty

Accurate Technology, Inc., warrants ProKit ™ systems against defective parts and workmanship for two years, commencing from the date of original purchase. Upon notification of a defect, Accurate Technology, Inc. shall have the option to repair or replace any defective part. Such services shall be the customer's sole and exclusive remedy. Expenses incidental to repair, maintenance, or replacement under warranty, including those for labor and material, shall be borne by Accurate Technology, Inc.

Except as expressly provided in this warranty, Accurate Technology, Inc., does not make any warranties with respect to the product, either expressed or implied, including implied warranties of merchantability or fitness for a particular purpose, except as expressly provided in this agreement.

Accurate Technology, Inc., shall not be liable for any special, incidental, or consequential damages or for loss, damage or expense directly or indirectly arising from the customer's use of or inability to use the equipment either separately or in combination with other equipment, or for personal injury or loss or destruction of other property, or from any other cause.

Tools Required

- Drill Motor
- 7/32” or equivalent diameter drill bit
- 11/64” or equivalent diameter drill bit
- Phillips screw driver
- Adjustable wrench
- ¼”-20 tap
- Tap handle
- Center punch
- Band Saw (optional)
- Belt Sander (optional)

Mounting the Scale Mounting Brackets:
(Use Figure 1 as a reference.)

1. Remove the rip fence and rip fence bar.
2. Mount the two rip fence brackets to the table using the same bolts that held your bar in place. (Remove only one bolt at a time.)
3. Remount the rip bar and align.
4. Tighten the nuts.

Mounting the Scale:
(Use Figure 1 and 2 as references.)

5. Mount the scale using the 6-32 screws.
6. Mount the right end of the scale as shown in Figure 2. (You may also choose to drill and tap for mounting the right angle brackets. You will need a #29 drill and 8-32 tap.)
7. Assure that the scale is straight (not bowed or bent) and is parallel to the rip fence bar.
8. Tighten all #6-32 screws.
9. Slide the readhead onto the scale. Be very careful to not damage the sensitive grounding fingers inside.
10. It may be necessary to trim the scale on some models of saws. If so, follow the instructions in the ProScale Manual, Section 5.

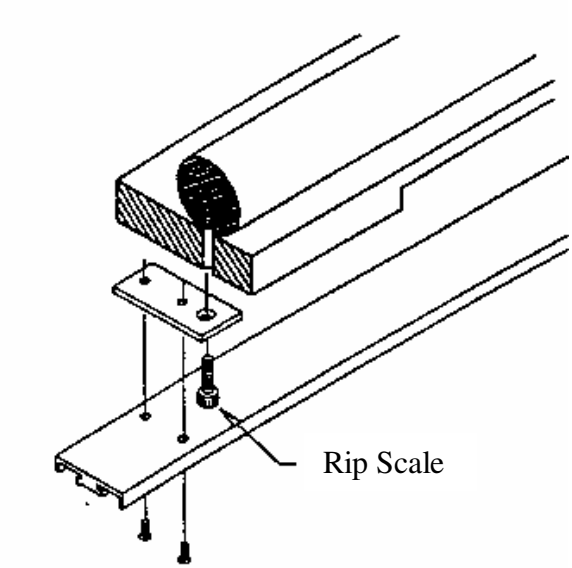

Figure 1.

Right Angle Assembly:
(See Figure 3 for reference.)

11. Use #10-32 x 3/4" bolts to attach the two plates. Do not tighten completely at this time.
12. Place the #8-32 x ¾" screws through the guide clip protector (small aluminum plate).
13. Slide a #8 spacer over each of the screws.
14. Place the guide clip over the screws on top of the spacers.
15. Screw this assembly into the larger plate in the two holes provided.
16. Attach this assembly to the cast iron portion of the fence. The proper location is determined when the guide clip is positioned to put pressure on the readhead. Be sure to check that the location of the assembly will not interfere with any function of your saw. Mark the location for holes to be drilled into the fence. Drill and tap for the ¼-20 bolts. (Use caution when drilling so that your fence, table, and bar will not be damaged.)
17. Slide the readhead along the scale to the Right Angle Assembly.
18. Center the guide clip over the post on the read head so that it applies light pressure. (See the ProScale Manual for more information.) Tighten ALL fasteners. Slide the fence left and right and check for binding. Assure the readhead post remains centered in the guide clip, with constant pressure over the full range of fence travel. Adjust the position of the scale if necessary.

Mounting the Digital Display:
(See figure 4 for reference.)

19. Remove the clamshell mounting bracket from its box. Separate the two halves by removing the two large screws in the sides. Mount one half of the clamshell bracket to the back of the display with the #4-40 x ¼" screws. Use either the #8-32 x¼" screws or foam tape to mount the other side of the clamshell bracket to the top of the cast iron portion of the fence. Reattach the two halves of the clamshell bracket.
20. Connect the readhead to the extension cable. Connect the extension cable to the display.
21. Adjust the display angle for comfortable viewing by the operator.

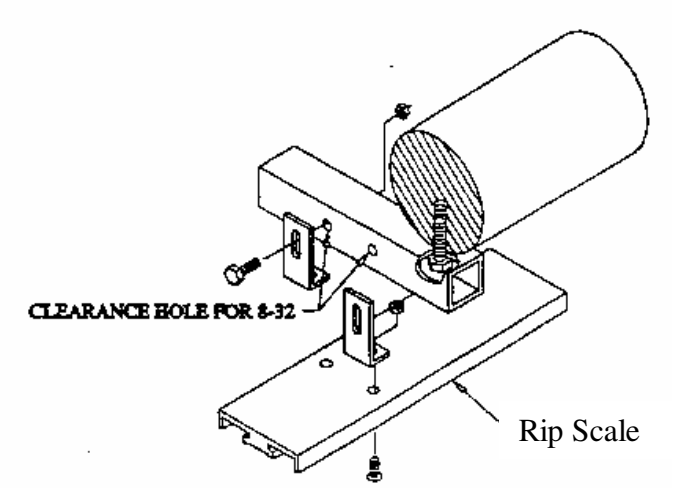

Figure 2.

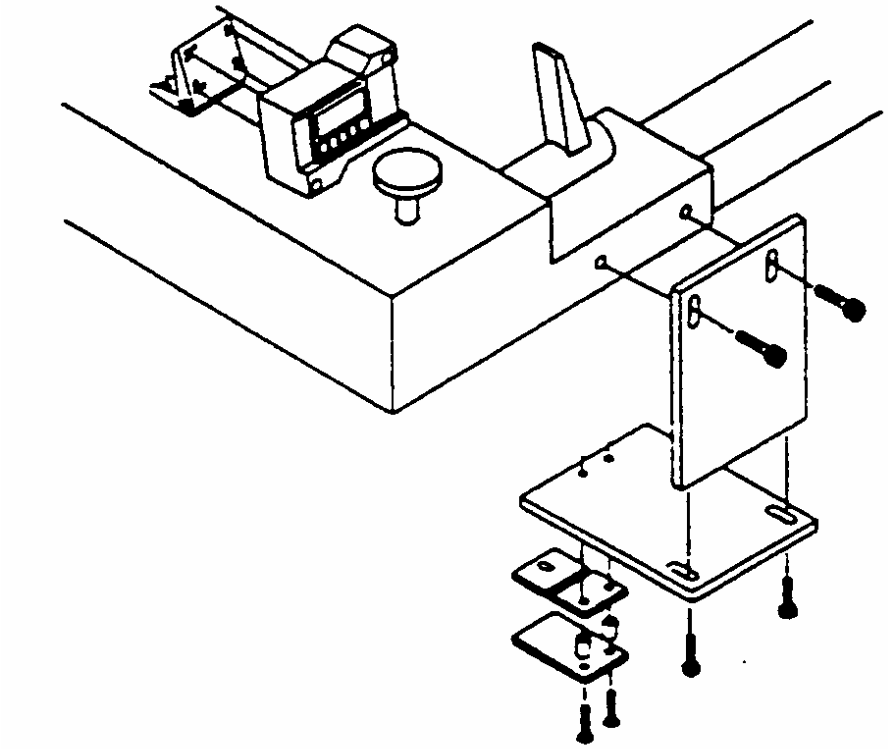

Figure 3.

Calibration of ProScale™:
(See ProScale Manual for reference)

22. With the rip fence locked in position near the saw blade, cut a small square board.
23. Measure this board with the most precise measuring tool available and write down the measurement.
24. Press the ZERO key on the ProScale display.
25. Use the PLUS and MINUS keys to enter the measured value into the ProScale display.
26. Press and hold the ON/OFF button. Press the MODE button (press and release in less than a second). Release the ON/OFF button. The keyboard is now locked. It can be unlocked by repeating this procedure.
27. ProScale should be re-calibrated when the saw blade is changed (kerf allowance) or when the batteries in the display are changed.

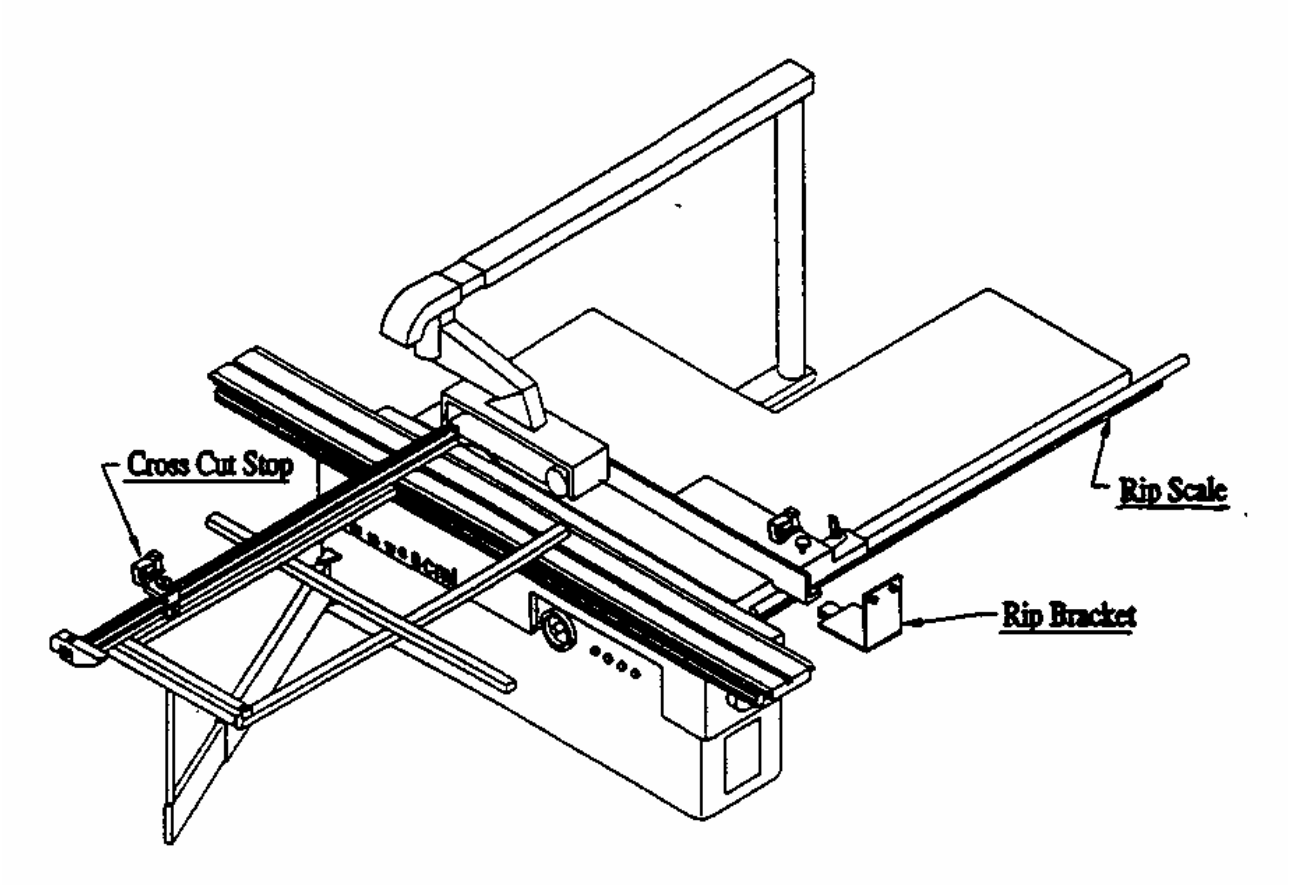

Figure 4.

Troubleshooting:

ProScale is accurate close to the saw blade, but not accurate at larger distances:

- Check the alignment of the saw fence. The alignment *will* affect the measurements at larger distances.
- Also be sure to check the mounting of all ProKit™ components. Any loose bolts can allow for "slop" measurements.

ProScale resets itself while saw is running and the fence is locked:

- The display has been accidentally reset. Large voltage spikes from nearby motors, inverters, or dust collection systems can cause this. Be sure that all devices are properly grounded.
- Also, extreme vibration can cause this. Mount the display in a different location.
- Be sure the ABS/INC key has not been accidentally pressed. If so, press and hold for 3 seconds to return to ABS reading.

ProScale resets itself while the saw is not running and the fence is locked:

- Be sure the ABS/INC key has not been accidentally pushed. If so, press and hold for 3 seconds to return to ABS reading.
- Be sure the ZERO button has not been accidentally pushed. If so, you will need to recalibrate the saw fence. Be sure to lock the value into the display.

ProScale display reads ERR 2 or No Enc:

- Make sure the connector is fully inserted into the display. Also, be sure the readhead is on the scale. To clear the error, simply unplug the readhead for one second and re-insert the connector to the display. You will need to recalibrate.
- The fence has been moved too quickly. To clear the error, simply unplug the readhead for one second and re-insert the connector to the display. You will need to recalibrate.

The display reads **B, BAT, or shows a battery symbol**:

- Your batteries need to be changed. ProScale uses two standard AA alkaline cells. To change the batteries, unscrew the top cover (two screws) and remove old batteries. Be sure to avoid touching the brass battery contacts as much as possible. These are specially designed to be loose while you are changing batteries-do not attempt to bend them.

My problem is not listed-where do I get help?

- Read through all the manuals for answers to other commonly asked questions.
- Check Accurate Technology's web site for further information (www.proscale.com).
- Contact Accurate Technology at 828-654-7920. Have your ProKit information ready when calling (machine model, part number, date of purchase, and point of purchase).
- E-mail Accurate Technology's service department at service@accurate-technology.com.