

Putsch Meniconi **Horizontal Scale** Instructions

Please note this installation kit is designed solely for installation on Putsch Meniconi Vertical Panel Saws, horizontal measurement. Accurate Technology manufactures kits for other vertical panel 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. Freight or transportation charges to Accurate Technology, Inc. shall be paid by the customer.

Except as expressly provided in this warranty, Accurate Technology, Inc., does not make any warranties in 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

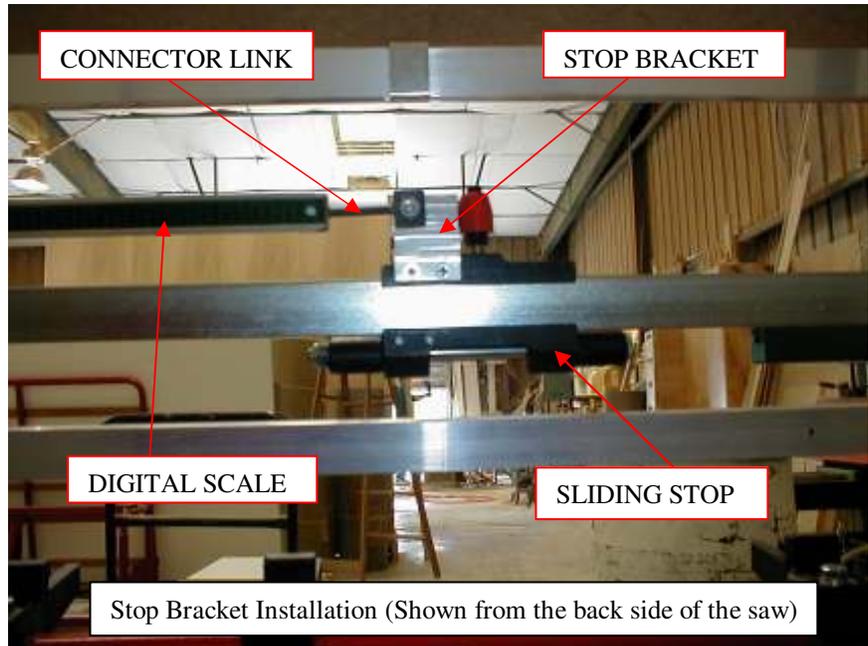
- Drill
- 9/64" (3.5mm) drill bit
- #8-32 Tap
- 5/32" (4.0mm) drill bit
- #10-32 Tap
- 13/64" (5.1mm) drill bit
- 1/4-20 Tap
- Tap Handle
- Grinder
- 2 Clamps

READ ALL INSTRUCTIONS COMPLETELY BEFORE BEGINNING INSTALLATION!

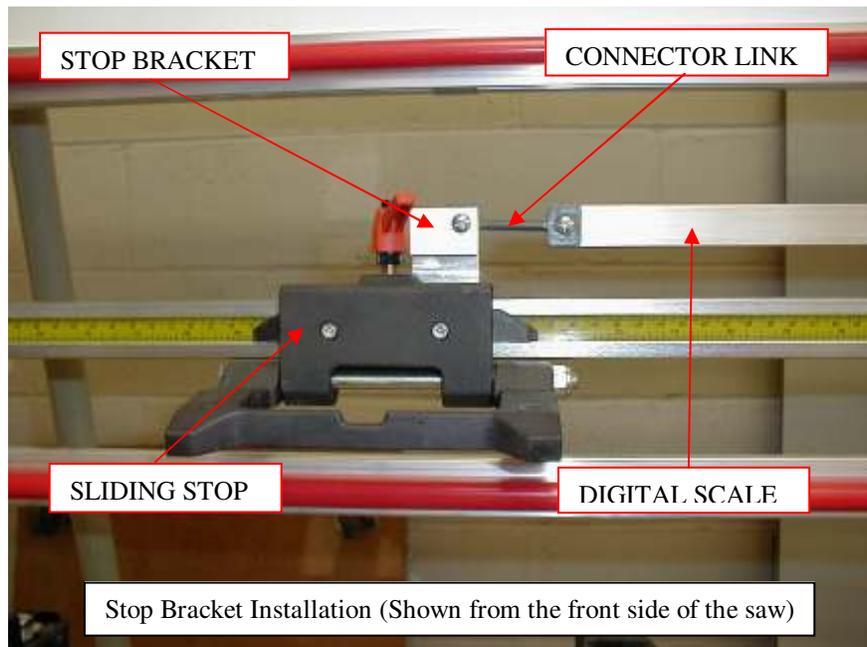
Directions:

(Read through all the installation instructions on pages 2-4 first. You may not be able to mount the digital scale ABOVE the measuring tape as shown; the pneumatic cylinder for the flip out shelf may be in the way. If this is the case, use the pictures shown on pages 6 and 7 for an alternative installation method.)

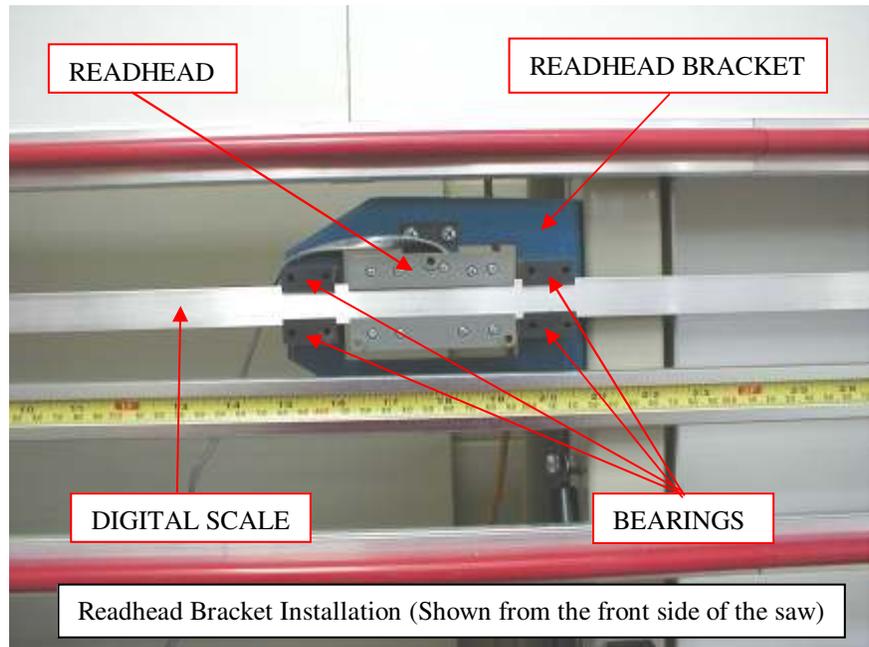
1. Align the lower edge of the stop bracket with the inside edge of the sliding stop on the saw as shown (photo is from rear of saw). Assure the edge of the bracket does not protrude above the edge of the stop, as it may prevent full movement of the stop. Mark the centers of the two countersunk holes onto the back of the stop. Drill holes using a 9/64" drill bit. Tap the two holes with a #8-32 tap. Attach the stop bracket to the stop using two #8-32 x 3/8" flat head screws.



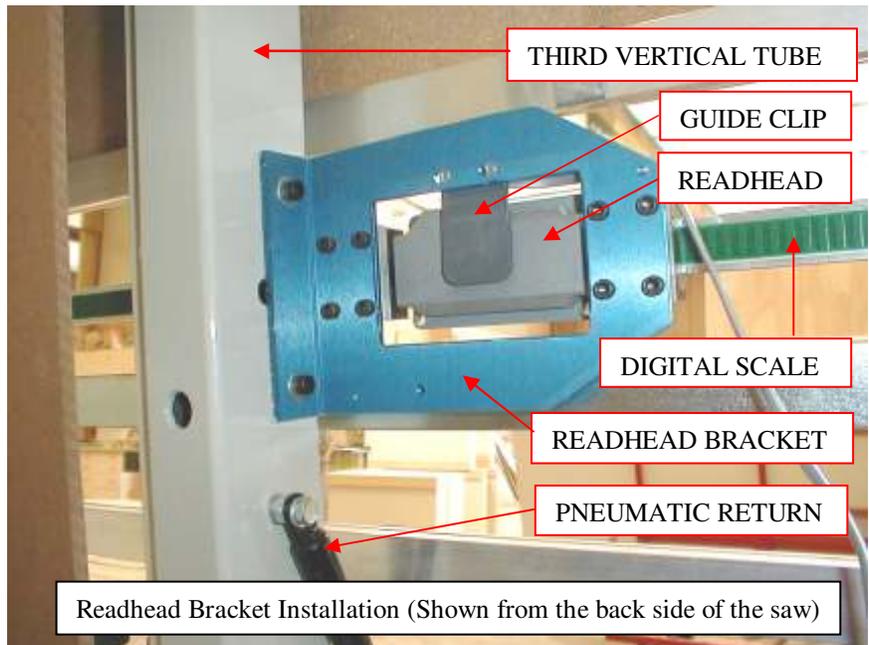
2. Attach the connector link to the stop bracket using a #10-32 x 1/2" pan head screw and a #10-32 nut. The connector link and the nut should be on the backside of the saw. The connector link **must** be mounted horizontally.



- Slide the digital scale into the first set of bearings (black blocks) on the readhead bracket. Then slide the scale through the readhead and the second set of bearings. Take care to assure that the brass fingers inside the readhead are not damaged when sliding the scale through. Be sure the green area of the scale faces the readhead bracket.

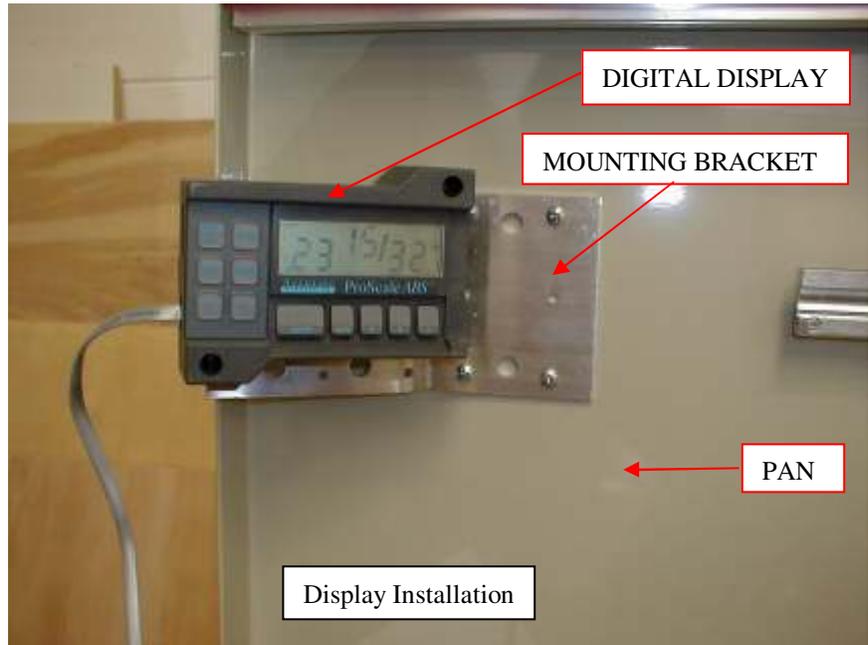


- Clamp the readhead bracket in place against the vertical steel tube on the panel saw (use the third vertical tube from the left side of the machine)*. Check to be sure the scale is horizontal. Mount the readhead bracket so the scale is as low as possible and back as far as possible without touching the vertical tube or the slat bracket. (If it is not mounted low enough or to the back enough, the stop will not



move through its full range of motion.) Move the stop back and forth through its full range, making sure that there isn't any interference. Make any adjustments for smooth sliding of the stop. Mark the centers of the mounting holes onto the vertical tube. Drill using a 5/32" bit. Tap two #10-32 holes and install two #10-32 x 1/2" socket head screws. ***NOTE: If your machine has a pneumatic return for the center "flip-out" shelf, you may need to remove the pneumatic cylinder from the third vertical tube. You may use the cylinder on another tube of the machine, or contact your Putsch reseller, to get a return spring to be mounted near the handle (left side of the machine).**

5. Route the readhead cable through the back of the saw and around to the left side of the saw. Position the display mounting bracket in the aluminum pan as shown. Mark the hole centers. Drill three holes using the 9/64" (3.5mm) drill. Install the display mounting bracket to aluminum pan using three #8 self-tapping screws. Use foam tape to attach the display to the mounting bracket.



6. Plug the connector into the display and turn on the display. Move the stop left and right. Watch the display to see if the numbers increase as the stop is moved to the left. If the readings are backwards, parameter Pr0 of the display must be changed. Reference the ProScale Manual for more information.
7.
 - a. With the stop **locked in position** near zero, cut a small square board.
 - b. Measure this board with the most precise measuring tool available and write down the measurement.
 - c. Press the ZERO key on the ProScale display. (The display should be in ABS mode before pressing zero. If the display is in INC mode, press and hold the ABS/INC key for three seconds.)
 - d. Use the PLUS key to enter the measured value into the ProScale display.
 - e. 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. (**LOCK** will be displayed when the display is properly locked.) Locking prevents the display from losing its calibration by accidentally pressing the keys.
 - f. ProScale should be re-calibrated when the saw blade is changed (kerf allowance) or when the batteries in the display are changed.

Troubleshooting:

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

- ❑ Check the alignment of the digital scale; the scale should be perfectly horizontal. 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.

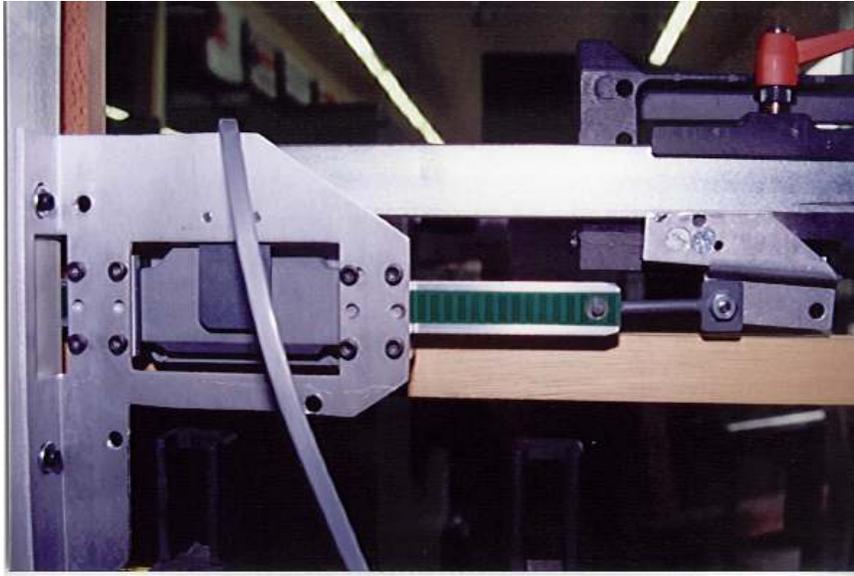
The display reads **B, BAT, or shows a battery symbol:**

- ❑ 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 more information.
- ❑ 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 our service department at customerservice@accurate-technology.com.

These additional pictures are provided for an alternative installation method, where the digital scale is mounted BELOW the sliding stop.



Note how the stop bracket is mounted to the bottom of the sliding stop instead of the top. Also note the readhead bracket is mounted lower on the vertical tube. (The brackets in the photo may be slightly different in shape and color than yours.)



When the ProKit is properly installed, the horizontal stop moves without interference with other components.

