

Delta Unifence Kit Installation Instructions

Please note this installation kit is designed for installation on the Delta Commercial Unifence (units made between 1993 and current). Accurate Technology manufactures kits for other saw fences in which some or all of the components may be different. For more information about these kits please 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 this product systems against defective parts and workmanship, 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

- Set of small clamps
- Drill
- Center punch
- Drill & tap for #8-32 screws (included)
- Tap Handle
- Phillips screwdriver
- Drill & tap for #8-32 screws (not necessary for all applications)

Please note that some of the parts for this installation kit may have been pre-assembled for your convenience by Accurate Technology. Additional photos of this installation are available at www.digi-kit.com or by request.

**READ THROUGH ALL INSTRUCTIONS BEFORE
BEGINNING INSTALLATION**

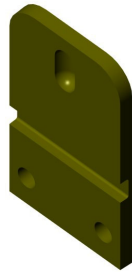
Digital Scale:



Readhead:



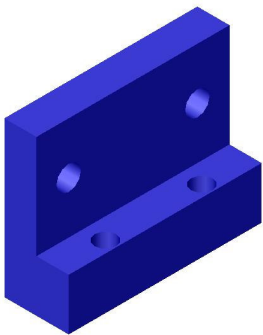
Guide Clip:



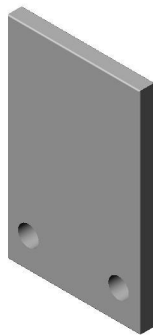
Digital Readout:



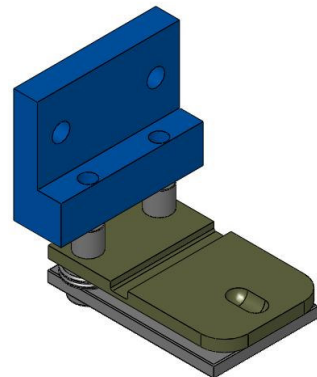
Mounting Block:



Clip Protector:

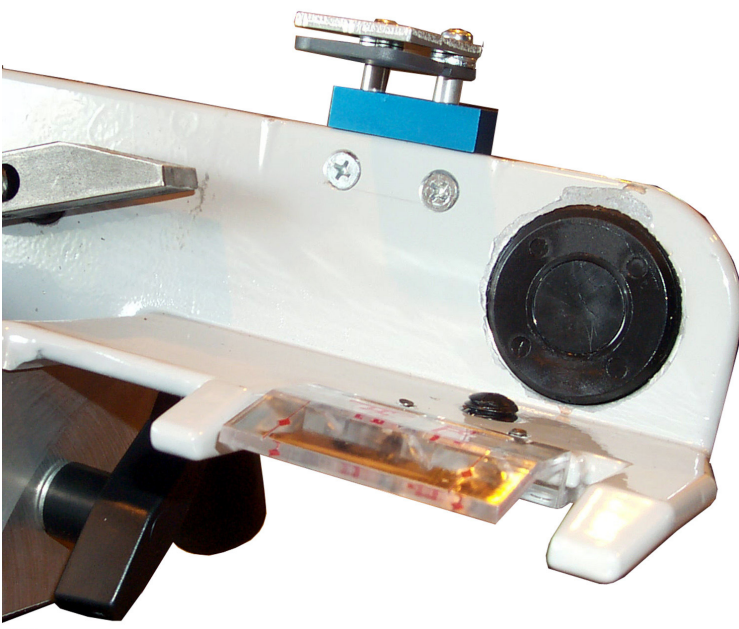


Mounting Block Assembly:



Installation Photos:

Mounting Brackets:



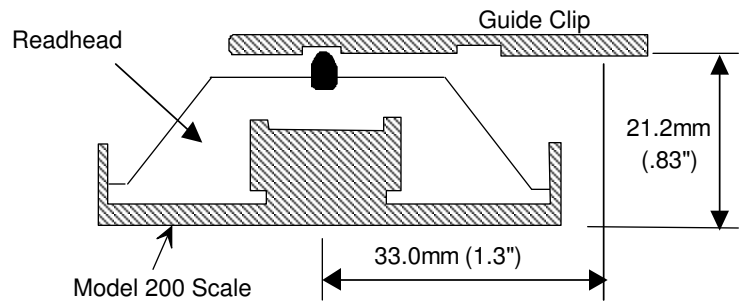
Scale and Digital Readout Installation (readout may be mounted in either location shown):



1. Attach the guide clip and clip protector to the mounting block using the supplied 8-32 screws and four #8 washers.
2. Clamp the assembly into position (the step in the mounting block should be tight against the bottom of the fence).
3. Drill 3/16" holes through the fence using the mounting block as a guide. (Use a smaller drill bit – 5/32nds is recommended – to start the holes, then enlarge to 3/16".)
4. Countersink the holes on the opposite side.

5. Attach the mounting block to the fence using the supplied 10-32 flathead screws and nuts.
6. Reinstall the fence.
7. Slide the readhead onto the digital scale if it has been removed.
8. Clean the underside of the fence rail (if necessary). The surface should be smooth and even. Use a razor blade to remove any built-up material.

9. Position the scale under the fence, facing the floor, such that the spherical post on the readhead is centered in the guide clip slot. Clamp the scale into place. Mark the scale's hole positions.



10. Drill and tap 8-32 holes into the fence at the marked locations. Remove any burrs.

11. Attach the scale to the fence extrusion using 8-32 screws.

12. Check the flex of the guide clip on the readhead over the full range of the fence travel. The guide clip should hold the readhead firmly and allow it to slide smoothly over the length of the fence when the stop is moved. Adjust the spacing between the readhead and the guide clip using washers and/or spacers if necessary. Use the diagram as a reference. (The pressure on the readhead is very important. Too much pressure will damage the readhead and scale. Too little pressure will cause accuracy problems.)

13. Attach one side of the hinge to the digital readout using the supplied 4-40 screws. Position the readout as desired. Mount the hinge using foam tape, Velcro, or #8 screws.

14. Plug the readhead into the readout. Be sure to route the cable so it will not catch and damage the system.

15. Move the fence left and right. The readout should read small numbers near the saw blade and large numbers away from the blade. If the readings are backwards, consult the Digi-Fence User Manual for information about Reverse Scaling.

16. With the fence **locked in position** near the saw blade, cut a small square board.

17. Measure this board with the most precise measuring tool available (preferably digital calipers) and write down the measurement.

18. Press the ZERO key on the readout.

19. Use the PLUS key to enter the measured value.

20. Press and hold the ON/OFF button. Momentarily press the MODE button. Release the ON/OFF button. The keypad is now locked. It can be unlocked by repeating this procedure.
21. The readout should be re-calibrated when the saw blade is changed (kerf allowance).

Troubleshooting:

The system 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 components. Any loose bolts can allow for “slop” measurements.

The readout resets itself while saw is running and the fence is locked:

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

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

- Be sure the ABS/INC key (if equipped) has not been accidentally pushed. If so, press and hold for 3 seconds to return to ABS reading.
- Be sure the ZERO key has not been accidentally pushed. If so, you will need to recalibrate. Be sure to lock the keypad.

The LCD shows **ERR 2** or “**No Enc**”:

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

How do I know when to change my batteries?

- A low battery indicator will light in the lower left corner of the LCD. The readout uses two standard AA alkaline cells. To change the batteries, unscrew the top cover (two screws) and remove old batteries. Avoid touching the brass battery contacts as much as possible. These are specially designed to be loose while you are changing batteries-**do not bend them.**

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

- Read through all the manuals for answers to commonly asked questions.
- Check Accurate Technology's web site (www.proscale.com) for information.
- Contact Accurate Technology at 828-654-7920. Have the following 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.