DigiFence Installation Instructions

*Please note this installation kit is designed solely for installation on the Commercial **Powermatic Accufence** (and Commercial **Jet XACTA Fence II**). Accurate Technology manufactures kits for other fences in which some or all of the components may be different. For more information about ProKits™ 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 DigiFence™ 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, 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.
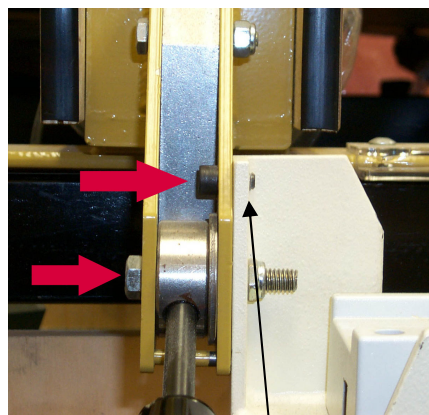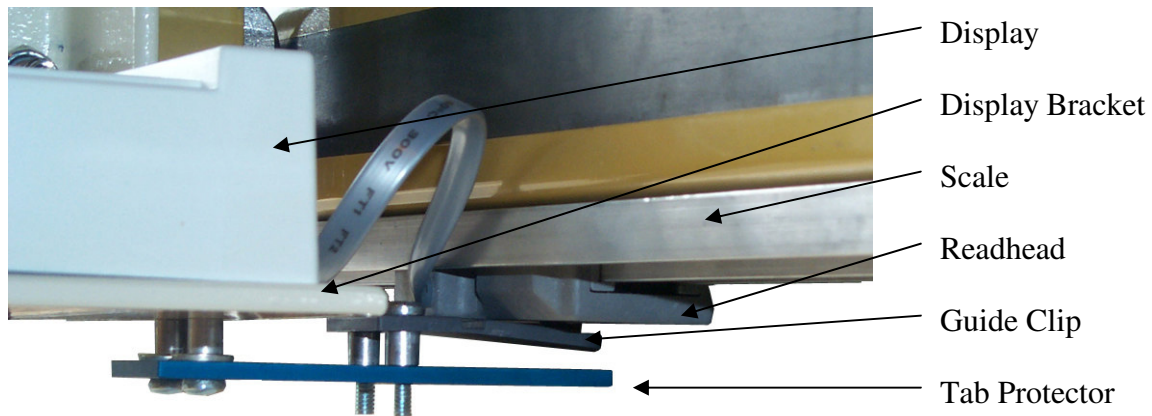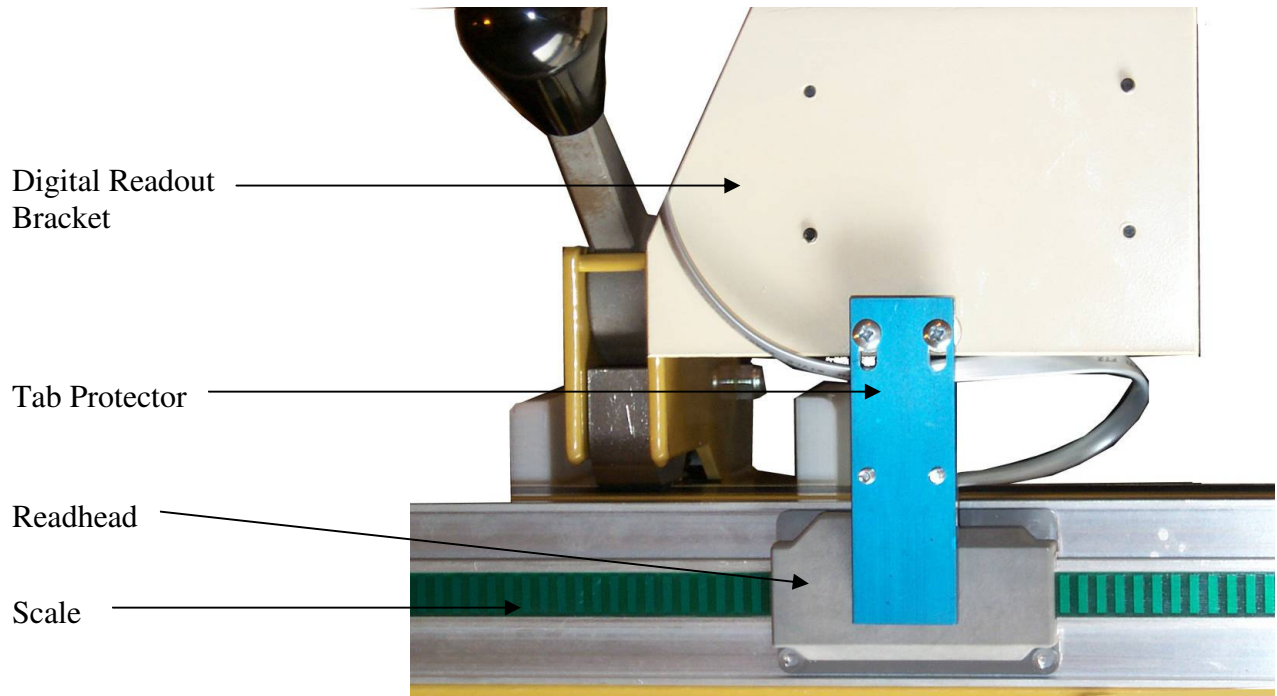
Tools Required

- ❑ Set of small clamps
- ❑ Drill Motor
- ❑ Center punch
- ❑ 9/32" drill bit (OR 5/16" drill bit)
- ❑ Adjustable wrench
- ❑ Phillips screw driver
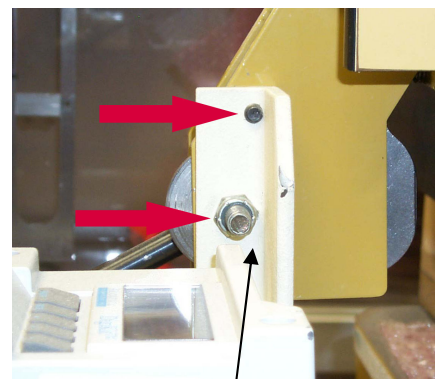- ❑ Tap Handle
- ❑ Allen wrench set

Some parts of this installation kit may have been pre-assembled for your convenience by Accurate Technology.
Due to small differences in fence designs, parts and installation may differ slightly from those shown.

Installation Photos:

Digital Readout Bracket

Tab Protector

Readhead

Scale

Display

Display Bracket

Scale

Readhead

Guide Clip

Tab Protector

¼-20 x ½" Bolt

5/16-18 nut

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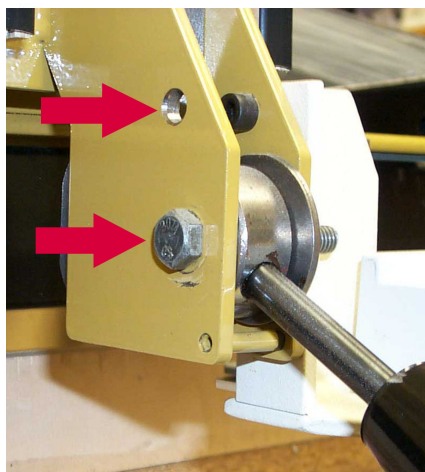
Mounting the Scale:

1. Place the scale on the underside of the fence tube so the right end of the scale is flush with the right end of the fence tube, and the inside edge of the scale rests against the edge of the angle iron.

2. Use a center punch to mark the hole locations on the underside of the fence.

3. Drill and tap holes into the fence tube (using the supplied drill and tap) at the marked locations. Be sure the holes go completely through the metal. Remove any burrs.

4. Attach the scale using the supplied flathead screws. Be sure the screw heads are flush or below the surface of the scale.

5. Slide the readhead back onto the scale (if it was removed). Be *very* careful to not damage the sensitive grounding fingers inside.

Mounting the Digital Readout Bracket:

6. Remove the bolt that holds the cam lever to the fence.

7. Replace it with the supplied 5/16 x 2" bolt.

8. Slide the digital readout bracket onto this bolt (lower hole of the digital readout bracket).

9. Reinstall the 5/16-18 nut. Hold the bracket level and tighten the nut.

10. Mark the position of the digital readout bracket's upper hole onto the fence (using a center punch).

11. Temporarily loosen the 5/16-18 nut (from step 9), and let the digital readout bracket swing clear of the marked hole.

12. Drill the marked position with a 9/32" drill bit. Be sure to drill through both sides of the fence. Use the photos on the previous page as a guide.

13. Slide the supplied ¼-20 x ½" bolt through the right hole (from the inside of the cam lock area), and into the upper hole of the digital readout bracket. Install the supplied ¼-20 nut and tighten.

14. Tighten the 5/16-18 nut. (Do not over tighten this nut; it could make the fence lock hard to operate.)

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Guide Clip Installation and Setup:

15. Place two 8-32 x ¾" screws through the guide clip. (The slots of the guide clip should be on the same side as the screw heads.)

16. Slide a #8 aluminum spacer over each of the screws.

17. Attach this assembly to the tab protector as shown in the photos.

18. Loosely mount the tab protector to the underside of the digital readout bracket using the supplied 8-32 x 3/4" pan head screws. Do not tighten completely at this time.

19. Slide the readhead along the scale and up to the digital readout bracket assembly.

20. Center the guide clip over the post on the readhead so that it applies light pressure. **Use the supplied washers and spacers to achieve the correct pressure (the guide clip should flex approximately 1/16"). Tighten all screws.**

21. 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.

Digital Readout Installation:

22. Remove the two screws on the front of the digital readout housing and set them aside. Pull the cover off of the base. Drill out the upper left and lower right hole locations (they are partially drilled already). Attach the digital readout base to the digital readout bracket using the supplied flathead screws. Replace the digital readout cover and tighten screws.

23. Connect the readhead cable to the digital readout.

24. Verify the digital readout reads larger positive numbers when moved from left to right. If it does not, the readhead can be reversed on the scale, or the digital readout's reading direction can be changed (consult the included User Manual for details).

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Calibration:
(See User Manual for reference)

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

2. Measure this board with the most precise measuring tool available and write down the measurement.

3. Press ZERO on the digital readout.

4. Use the PLUS button to enter the measured value into the digital readout.

5. Press and hold the ON/OFF button. Quickly press and release the MODE button. Release the ON/OFF button. The keyboard is now locked. It can be unlocked by repeating this procedure.

6. The digital readout should be re-calibrated when the saw blade is changed (kerf allowance) or when the batteries are changed.

7. Familiarize yourself and other operators with the product's functions by reading the User Manual.

Removing the Fence from the Saw:

If you should need to remove the fence, follow these steps:

1. Disconnect the readhead cable from the digital readout.

2. Disengage the guide clip from the readhead.

3. Slide the readhead to the left.

4. Slide the fence to the right and remove from the table.

5. Fasten the loose end of the readhead cable under the saw table to protect it from damage.

6. Be sure to recalibrate when the fence is re-installed.

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Troubleshooting:

The reading 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 digital readout resets itself while saw is running and the fence is locked:
- ❑ The digital readout has been accidentally reset. Large voltage spikes from nearby motors, inverter, and dust collection systems can cause this. Be sure that all devices are properly grounded.
- ❑ Also, extreme vibration can cause this. Mount the digital readout in a different location.
- ❑ 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 digital 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 button has not been accidentally pushed. If so, you will need to recalibrate the saw fence. Be sure to lock the value into the digital readout.

The digital readout reads **ERR 2 or No Enc**:
- ❑ Make sure the connector is fully inserted into the digital readout. 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 digital readout. 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 digital readout. You will need to recalibrate.

The digital readout reads **shows a battery symbol**:
- ❑ Your batteries need to be changed. The digital readout 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 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.

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