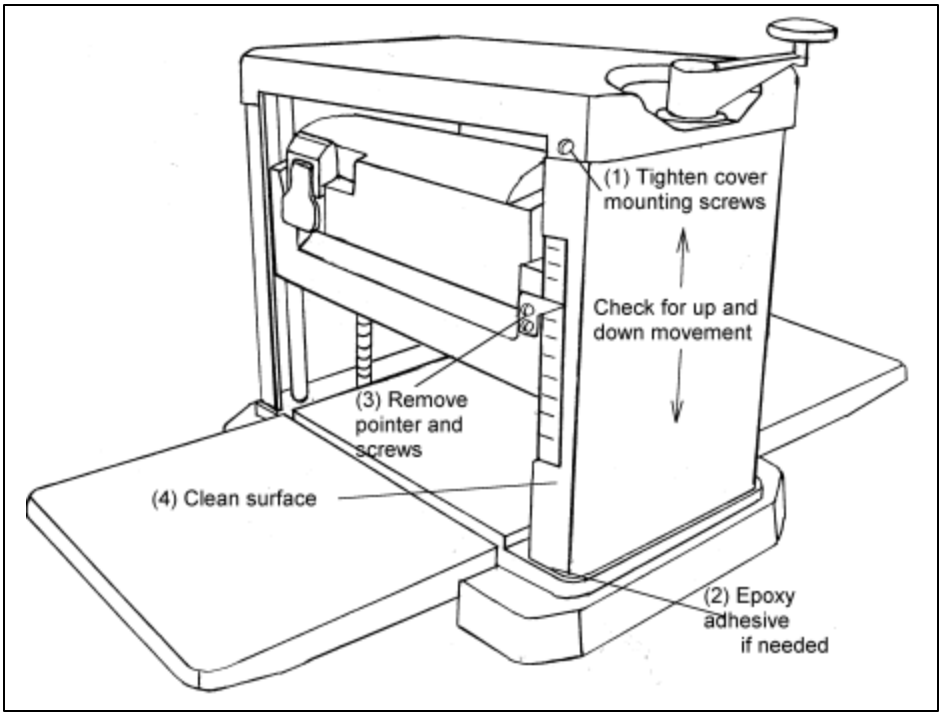
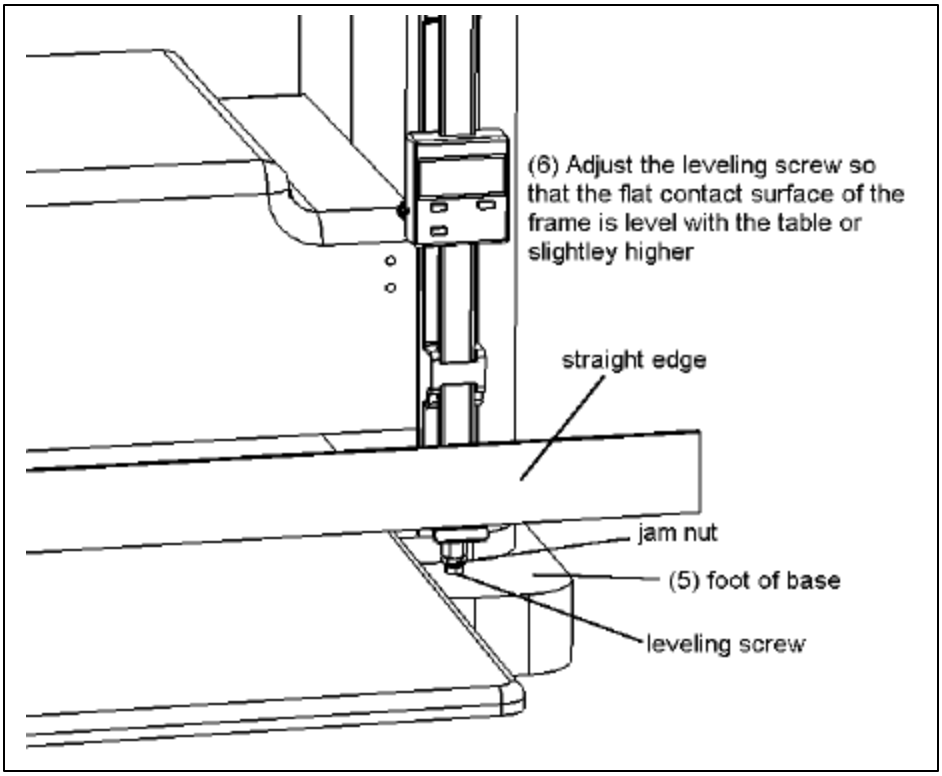
Wixey ELECTRONIC
DIGITAL READOUT

Model WR500

INSTRUCTIONS

Step 1- Mounting the readout assembly to your planer





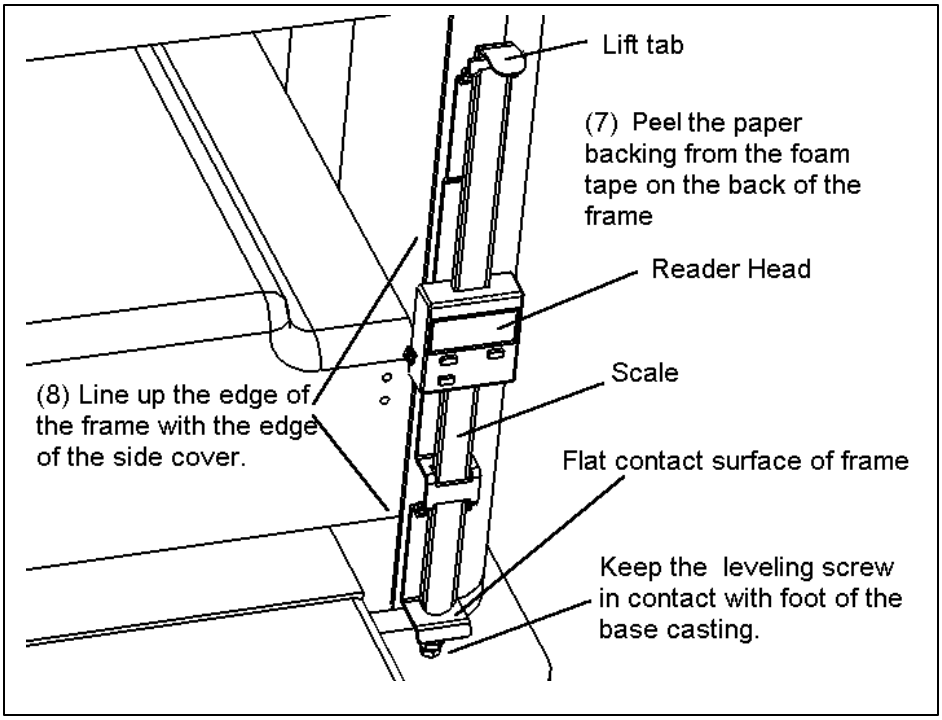
Tighten any of the side cover mounting screws (**1**) and if necessary use a small amount of epoxy adhesive between the side cover and the base casting to prevent movement (**2**). Remove the scale pointer and keep any screws or washers (**3).** Use any standard household cleaner or degreaser to clean the front surface of the side cover (**4**). If the planer has a scale permanently attached to the side cover it may be left in place.

Dewalt DW735 -the readout kit will be attached directly to the metal scale.

Delta 22-580 13” – See special instructions on page 10.

Hold the device in place against the right side cover letting the leveling screw rest on the foot of the base casting (**5**). Using a straight edge adjust the leveling screw so the flat contact surface of the metal frame will be level with the table or slightly above (**6**). Use the jam nut to lock the leveling screw in position.

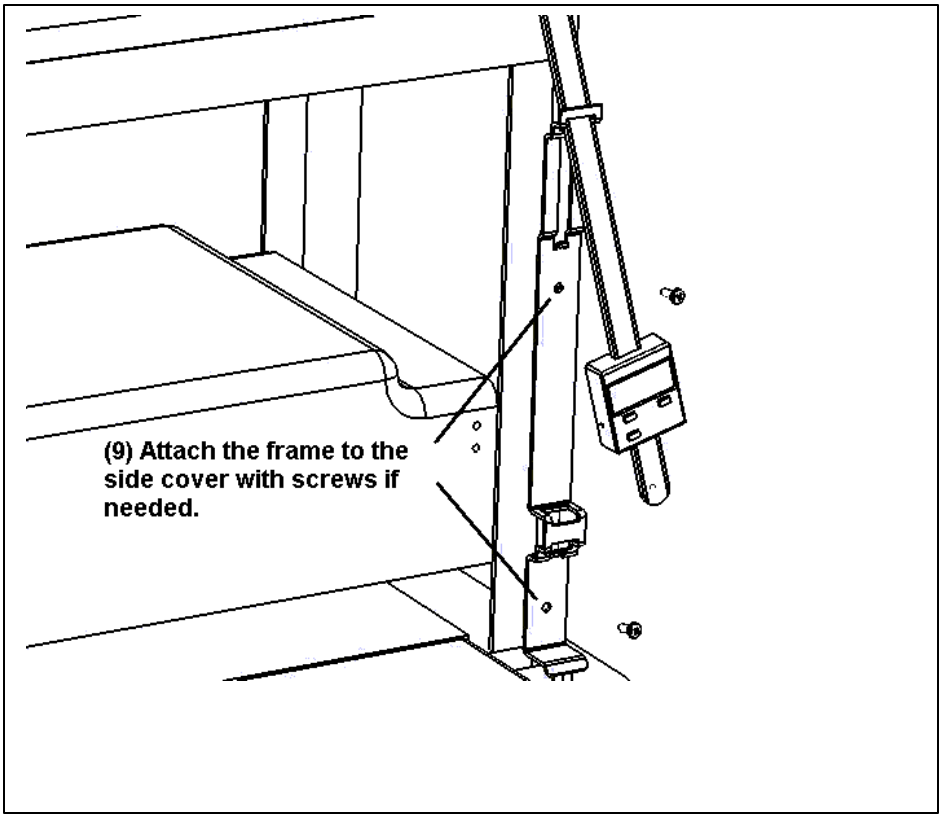
Note: Several different length leveling screws are provided, select the one that works best with your planer. If there is no foot on the base casting to rest the leveling screw on, you will have to mark the appropriate location for the frame to mount to the side cover so that the flat contact surface of the frame is level or slightly above the planers table surface.



Peel the paper backing off the 2 foam tape adhesive strips that are attached to the back of the frame of your digital readout (**7**). Hold the frame a slight distance from the side cover so that the adhesive foam does not contact the cover until the frame is in the correct position. Carefully align the left edge of the frame with the edge of the planer side cover keeping the leveling screw in contact with the foot of the base casting (**8**).

Note for **Delta 22-580 13":** *the left side of the frame will be aligned with the scribed line explained on page 10*

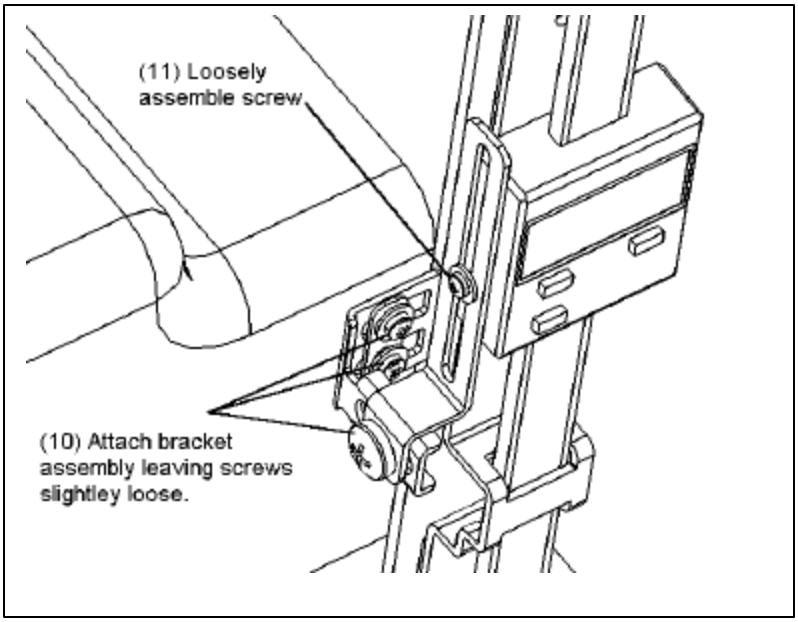
Push the frame firmly against the front of the side cover. If the leveling screw is resting firmly on the foot of the base casting, the foam tape will permanently hold the device to the planer.



If the leveling screw does not firmly support the frame then screws (not provided) may be used to attach the frame to the side cover using the holes provided (**9**). Carefully slide the scale up and out of the bottom portion of the frame to expose the pre-drilled holes in the frame. Make sure that the end of the screws protruding through the side cover do not interfere with the up and down movement of the planers cutter head.

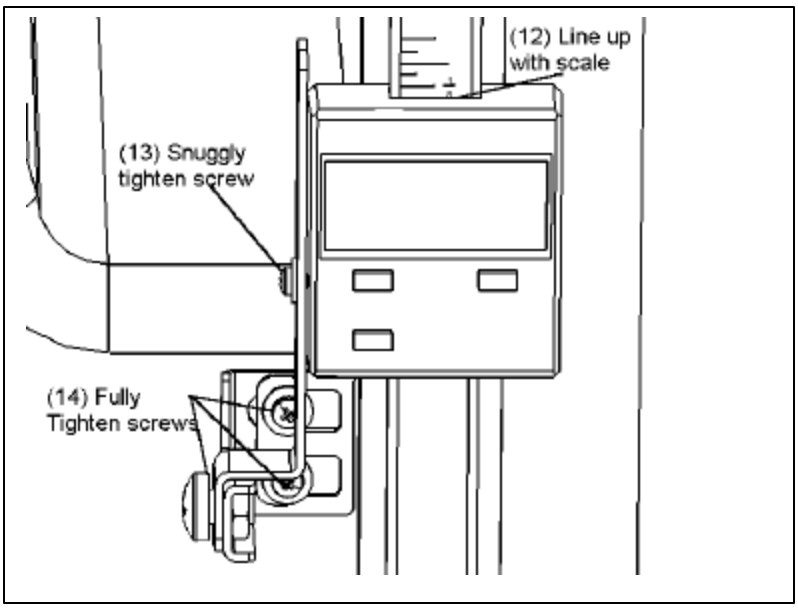
Note: for **Dewalt model DW735***: There is no side cover on this model. The frame can be attached directly to the steel scale. Since there is no base casting foot, screws will need to be used to attach the frame to the planers steel scale.*

Step 2- Attaching the mounting bracket

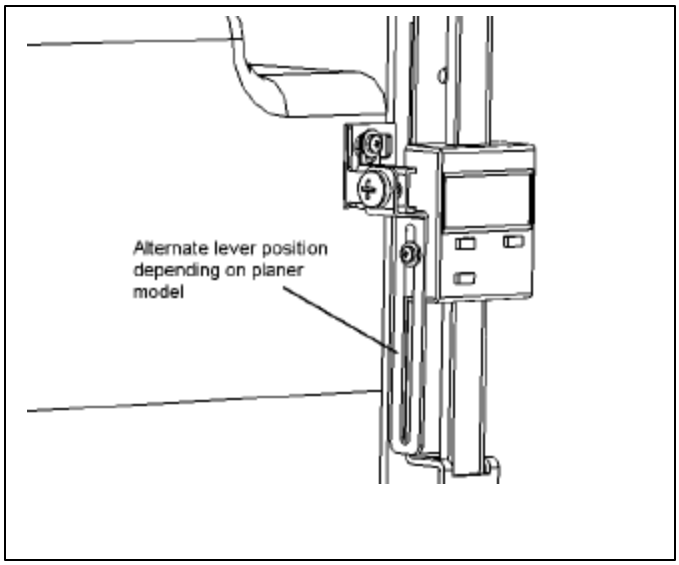


Attach the mounting bracket to the front of the planer where the scale cursor was mounted using the cursor screws and washers you saved from the previous step and the double washer included in your kit. Do not fully tighten the screws so that the bracket assembly can have some movement (**10**). Position the lever so that the mounting screw can be assembled through the slot in the lever and into the readout (**11**).

Note: The mounting bracket will fit properly with many planers, however, if it does not fit yours, it may be necessary to carefully drill some holes in the front of you planer and attach the bracket using self tapping screws. On **Delta model 22-580 13"** *the mounting bracket will attach to the adapter shown in the parts diagram at the bottom of page 10.*



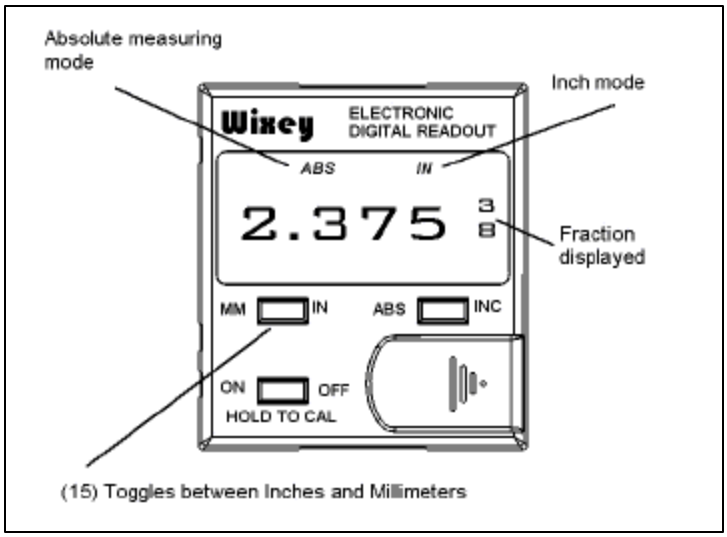
If your planer has a preset depth stop, set the stop at one of the lowest positions (¼" or ½") and lower the cutter head until it hits the stop. If your planer does not have a preset stop, lower it as far as it will go which should be 1/8". Slide the readout down the steel scale and using the top edge of the plastic readout case as a pointer, align the readout with the proper reference position printed on the steel scale (**12**). For instance if you lowered your planer to a preset position of ½" set the readout at ½" . If you lowered the planer as far as it could go set it at 1/8". First tighten the screw into the readout (**13**) and then fully tighten the cursor screws **(14)**.

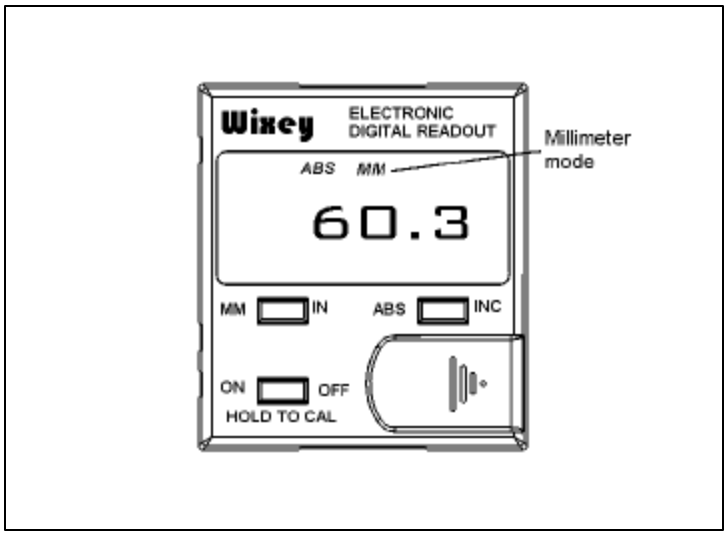


Note: For some planer models including **Ridgid,** *the lever will need to be repositioned as shown at the left.*

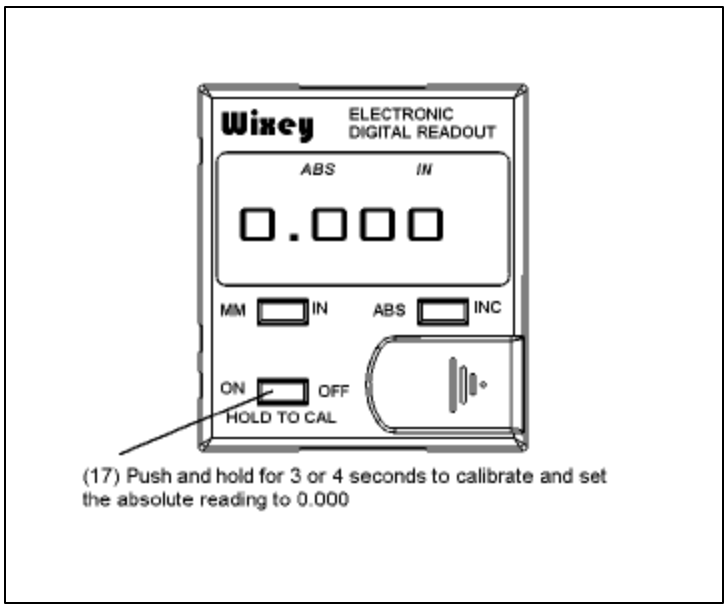
Important: Lift the scale and make sure it travels up and down freely so that the spring keeps the bottom of the scale firmly in contact with the bottom of the frame . Raise and lower the cutter head to insure the readout travels smoothly up and down the steel scale without binding. If any binding occurs repeat the above steps.

Step 3 Understanding the buttons on your electronic digital readout.

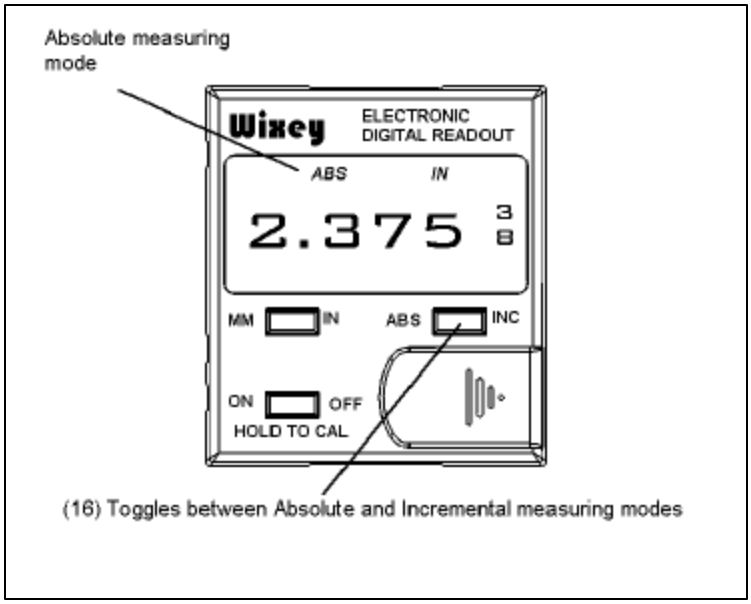


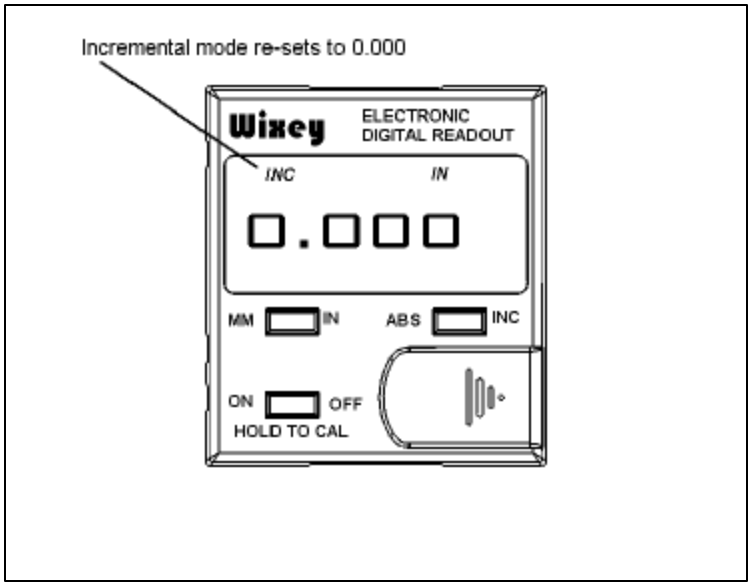


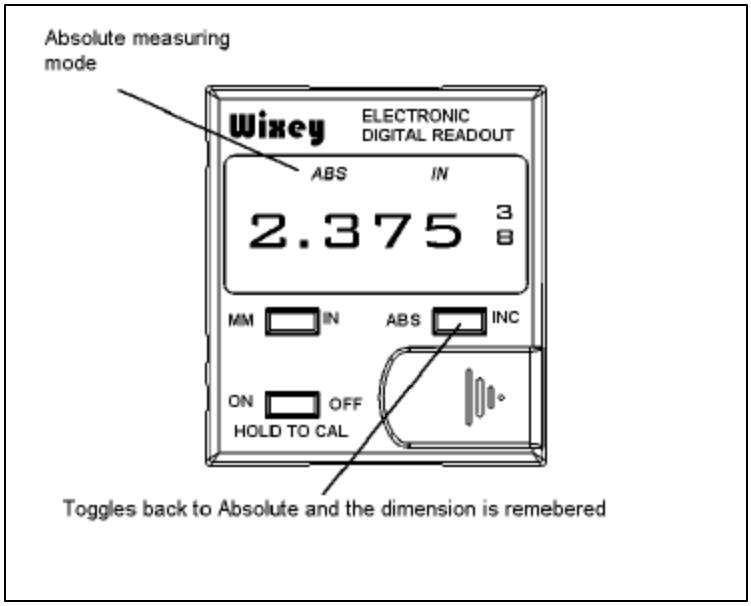
- **IN/MM**- Pushing this button switches the display mode for measuring *inches* or *millimeters*. The letters "in" or "mm" are displayed to the left of the reading. This button can be pushed at any time and any number of times to toggle back and forth between the different units (**15**). In the "in" mode, fractions are displayed to the right of the reading. The fractions displayed are using the least common denominator with the smallest fraction being 1/32". The fraction is combined with the whole number that is displayed to the left of the decimal point. For instance a reading of 2.375 3/8 is 2-3/8".



ON/OFF—CAL- Pushing this button momentarily turns the readout on or off. If the readout is in the ABS (absolute) measuring mode and this button is pushed and held for 3 seconds the absolute reading becomes zero at that point (**17**). This is used for calibrating the readout to your planer. The readout can be turned on and off or left off for long periods of time but the calibrated reading is always remembered.

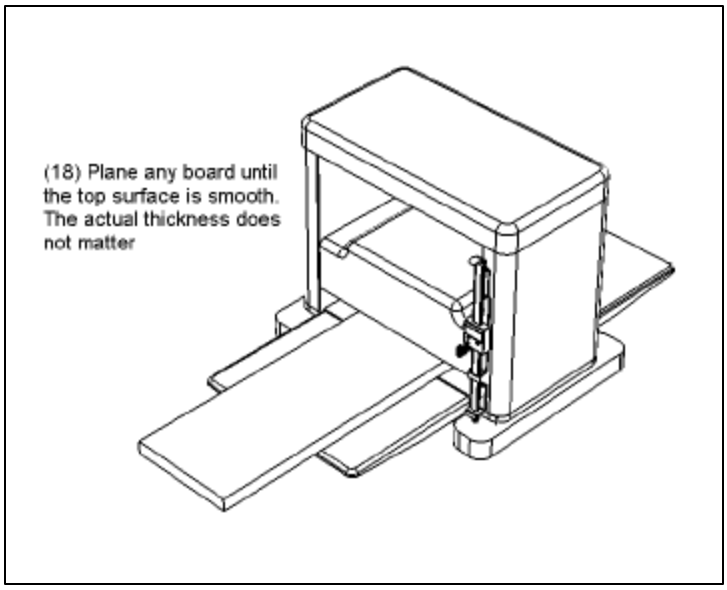




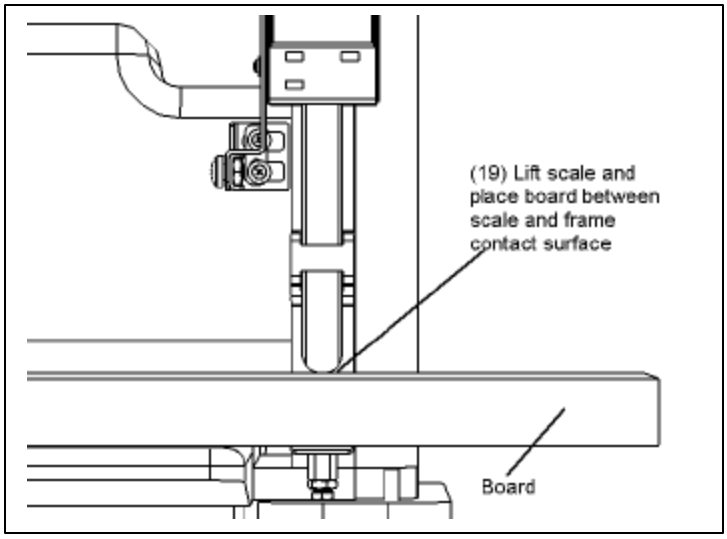


- **INC/ABS**- This button switches the readout from ABS (absolute) to INC (incremental) measuring mode (**16**). ABS (absolute) is the standard mode used and the letters "ABS" are displayed. When the planer has been properly calibrated the readout will display the actual distance from the bed of the planer to the tips of the planer blades. This will show the actual final thickness of a board that will come out of the back of the planer. When in INC (incremental) mode the letters "INC" are displayed. Anytime the INC button is pushed, the displayed reading will become 0.000in. or 0.00mm. If the button is pushed again the readout will revert back to the ABS mode and display the true calibrated absolute reading. The absolute reading is remembered at all times regardless of which buttons are pushed.

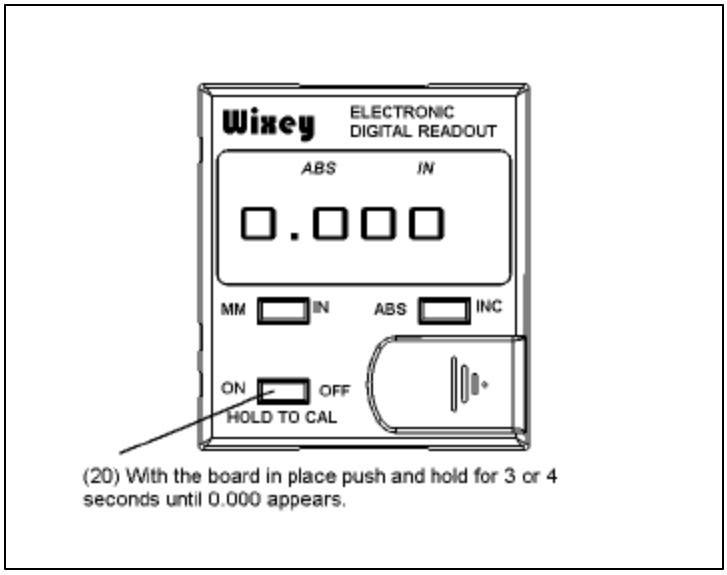
Step 4 Calibration



Calibrating the readout will set the device to display the exact distance from the bed of the planer to the tips of the planer blades and show the actual final thickness of a board that will come out the back of the planer. Take a flat board and run it through the planer, make sure the planer is removing material from the top of the board (**18**). After the final pass through the planer turn it off and unplug it. Do not touch the height adjustment crank. If the planer has a head lock leave it locked.



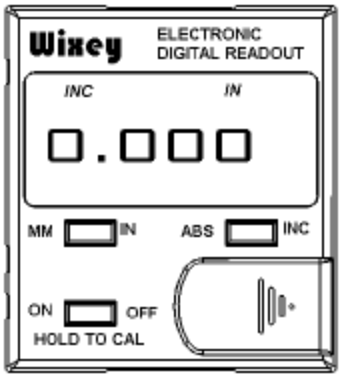
Turn on your digital readout and be sure it is in the ABS mode. It does not matter if the display mode is MM or IN. Lift up on the tab on top of the steel scale and slide the scale upward so that the piece of wood you just planed can fit between the bottom of the scale and the flat contact surface of the frame (**19**). Do not use the first 2 or 3 inches of the end of the board as this may contain a small amount of snipe that could effect the calibration.



Push the ON/OFF--CAL button and hold it for 3 or 4 seconds (**20**). The display will now read 0.000. Remove the board and allow the scale to come back down and contact the flat surface of the frame. The readout will now display a number. This number is the exact thickness of the board you just planed and your readout is now calibrated. It will always maintain this calibration and will not need re-calibrated unless the battery is removed or goes dead or the planer blades are changed or wear considerably.

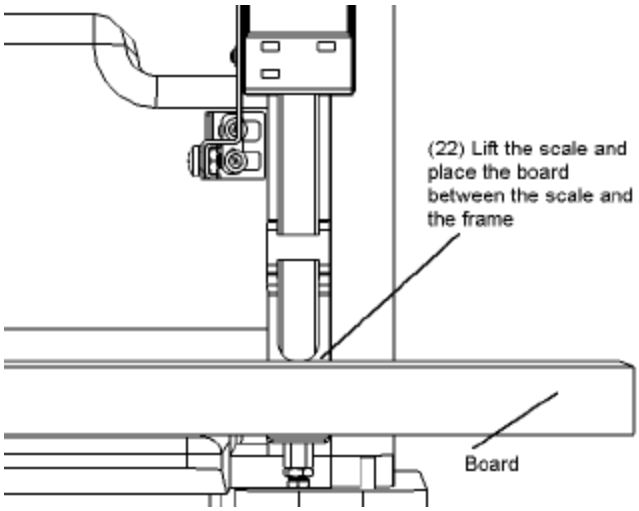
Note : Wood chips between the bottom of the scale and the frame or a board can throw off the readings.

Measuring the thickness of any board.

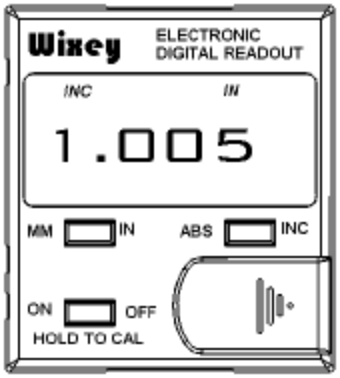


(21) Push INC button to set to 0.000

Press the ABS/INC button until the INC appears above the displayed reading (**21**). The reading now will be 0.000 in or 0.00mm.



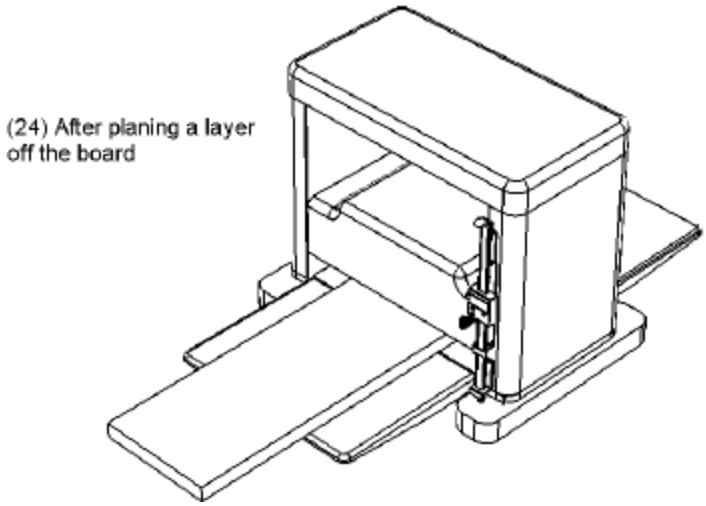
Lift the tab on top of the steel scale and place the board to be measured between the bottom of the scale and the bottom of the frame (**22**).



(23) Display shows the thickness of the board

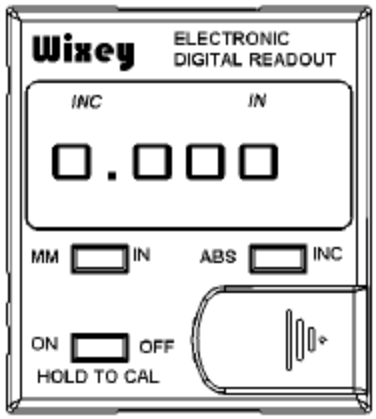
The reading displayed is the thickness of the board (**23**). Remove the board. Pushing the ABS/INC button again puts the readout back in ABS mode and the calibration is maintained.

Removing a precise amount of material from a board being planed.



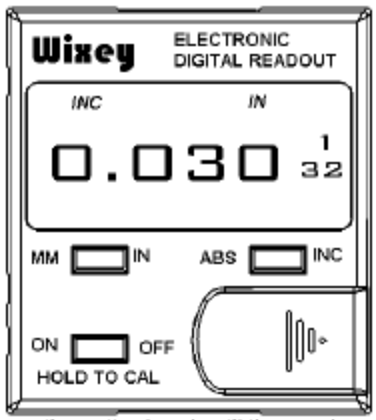
(24) After planing a layer off the board

If you are in the process of planning wood and after repeated passes a point is reached where you want to remove a precise amount of material on the final pass, follow this procedure. After the next to the last pass do not touch the head or height adjustment crank (**24**).



(25) Push INC button to set to 0.000

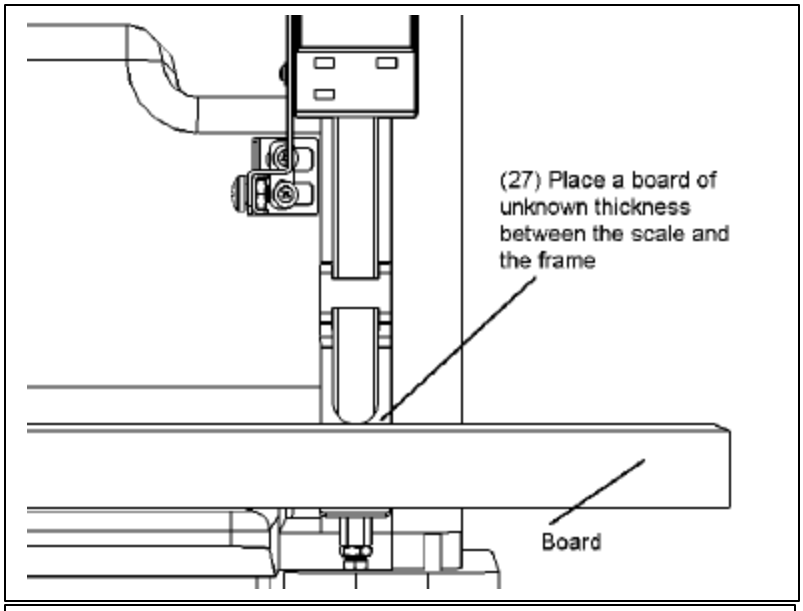
Press the ABS/INC button until the INC appears above the reading and the reading changes to 0.000 (**25**).



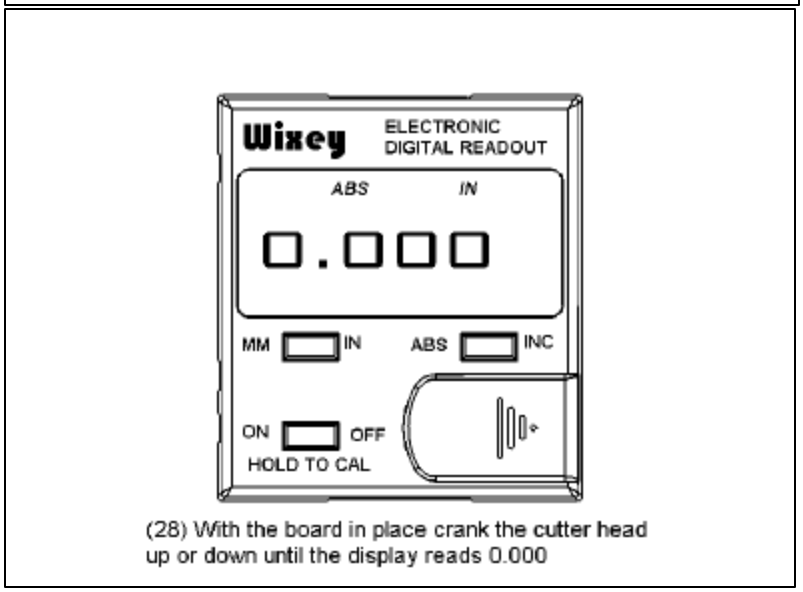
(26) Lower the cutter head until the precise amount of material to be removed is displayed

Unlock the headlock and crank down the cutter head until the display shows the amount of material you want to remove on the last pass (**26**). Lock the cutterhead lock and run the last pass. Pressing the ABS/INC button again takes the readout out of the INC mode and places it back in the ABS mode. The reading on the display will be the exact thickness of the board you have just planed and your planer's calibration is maintained.

Setting your cutter head to the height of a board of unknown thickness.

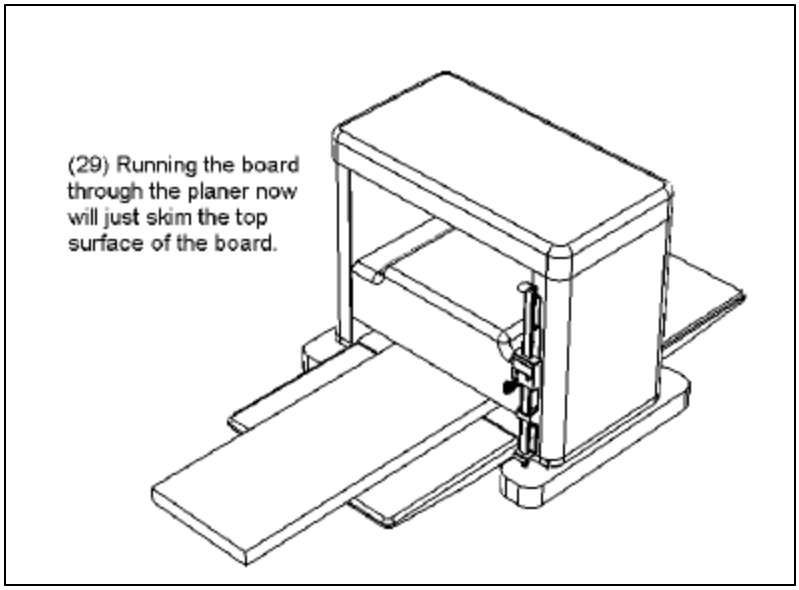


If you have a board of unknown thickness and the cutter head of the planer is set at some random position use this procedure. Leave the readout in the ABS display mode. Lift the tab on the top of the steel scale and place the board of unknown thickness between the bottom of the scale and the bottom of the frame (**27**).

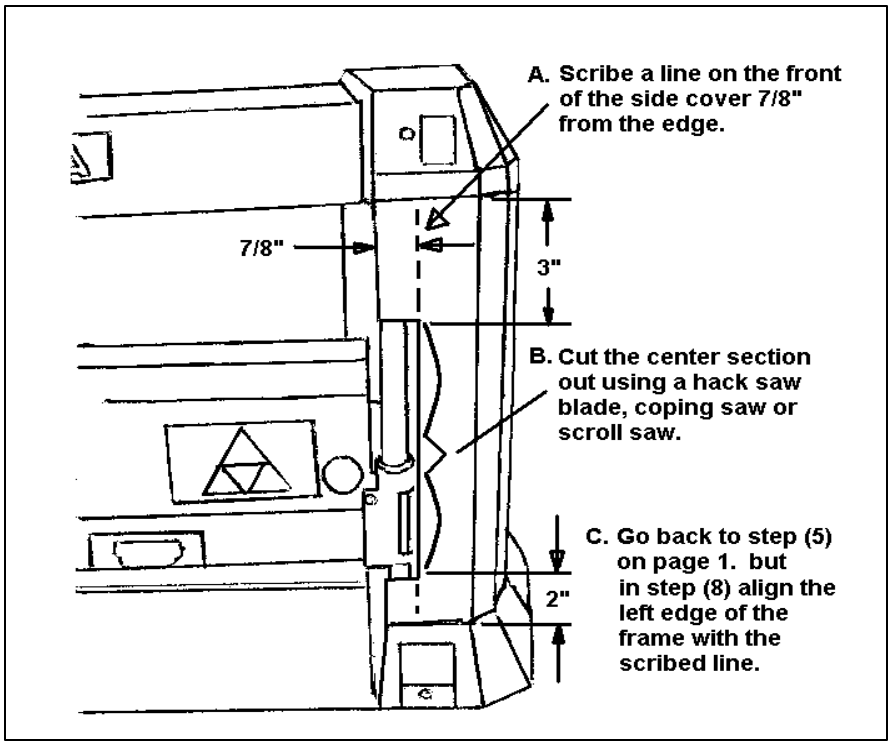


(28) With the board in place crank the cutter head up or down until the display reads 0.000

While holding the board in place, crank the cutter head up or down until the reading on the display is 0.000 (**28**). Remove the board.



The cutter head is now set at exactly the height that will just skim the top surface of the wood if it is now fed through the planer (**29**). You could have also left the board under the scale and when the 0.000 position was reached continue to crank the cutter head down until some small value is displayed that would be the amount of material to be removed from that particular board.



Delta 22-580 13" Planer: Prepare the side cover as shown at the left and then return to page 1 step (**5**).

Trouble Shooting: If the readout ever begins to display erratic or incorrect readings. Remove the battery, wait for 30 seconds and then replace. This will reset the microprocessor. You will then need to re-calibrate your digital readout. If problems persist replace the battery.

Replacing the battery:
Slide the battery cover off of the readout in the direction of the molded in arrow. Place a standard watch battery no. SR 44 into the position with the + side face up. Replace the battery cover.