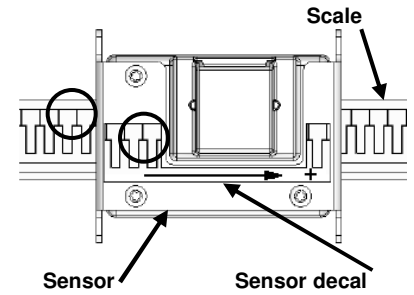# INSTRUCTIONS

Wixey

REMOTE PLANER READOUT

MODEL WR550
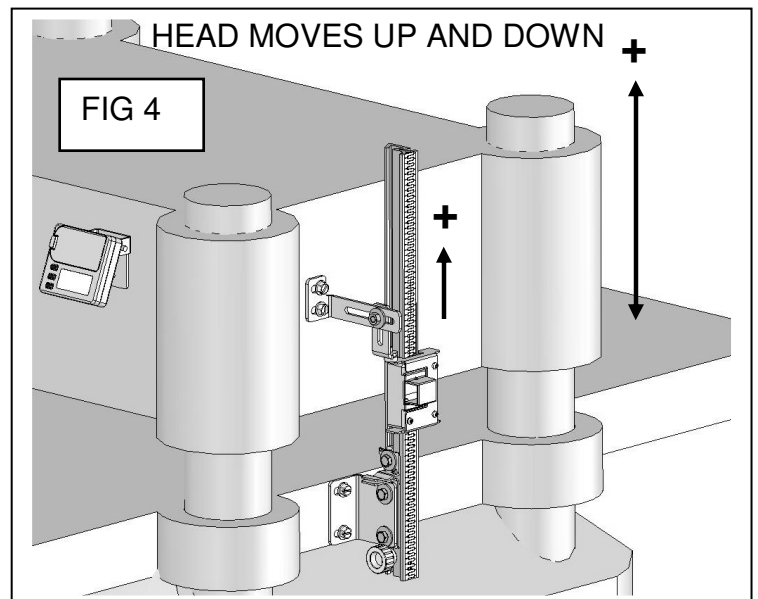
NOTE:

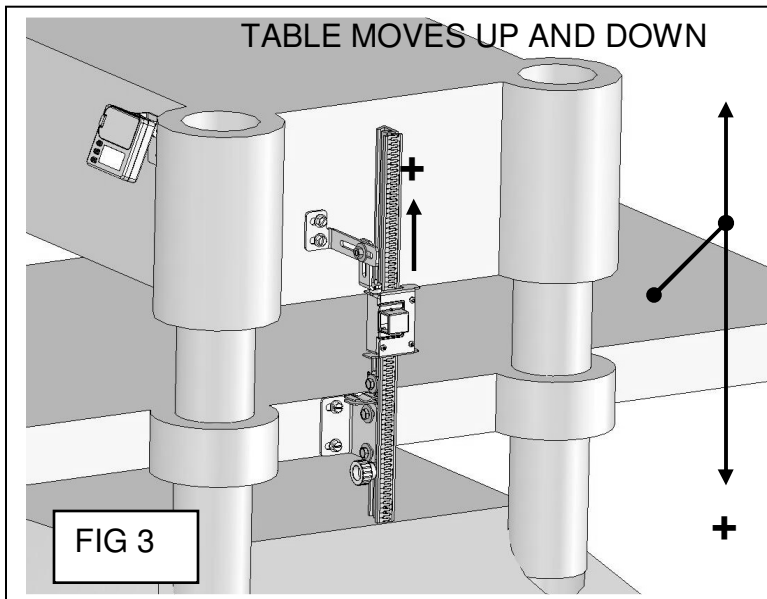- Always turn off the power and unplug your machine before installing the WR550
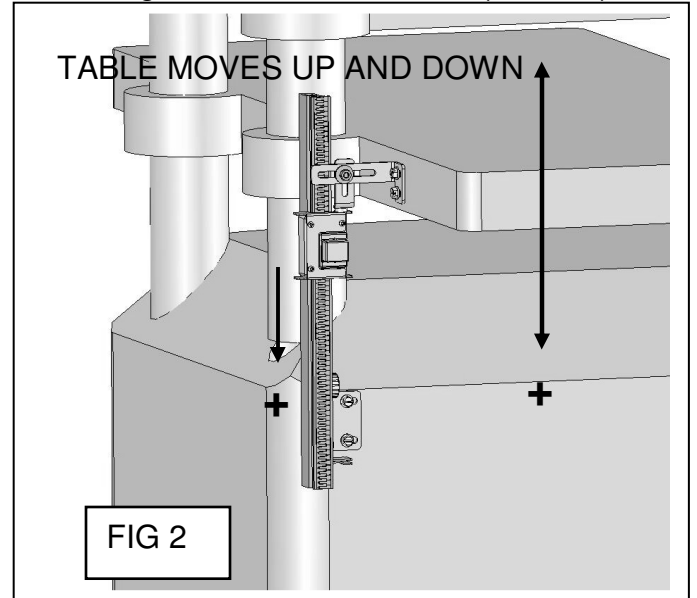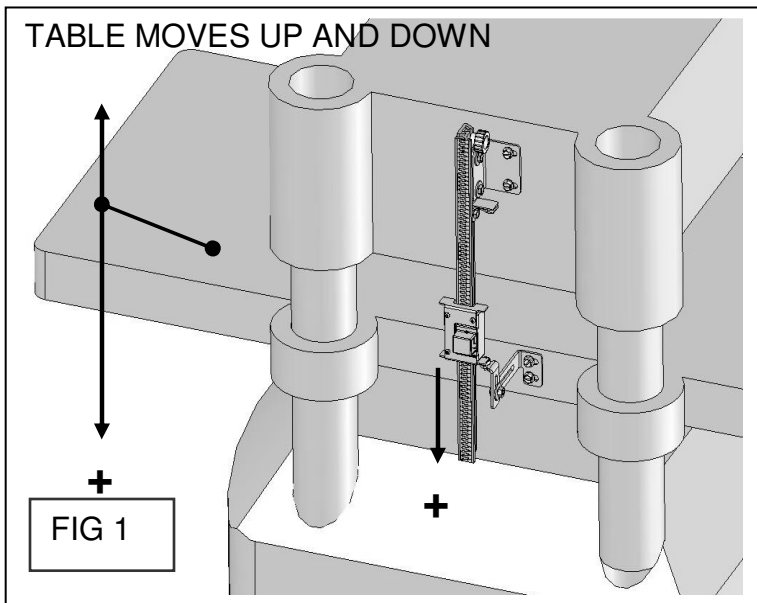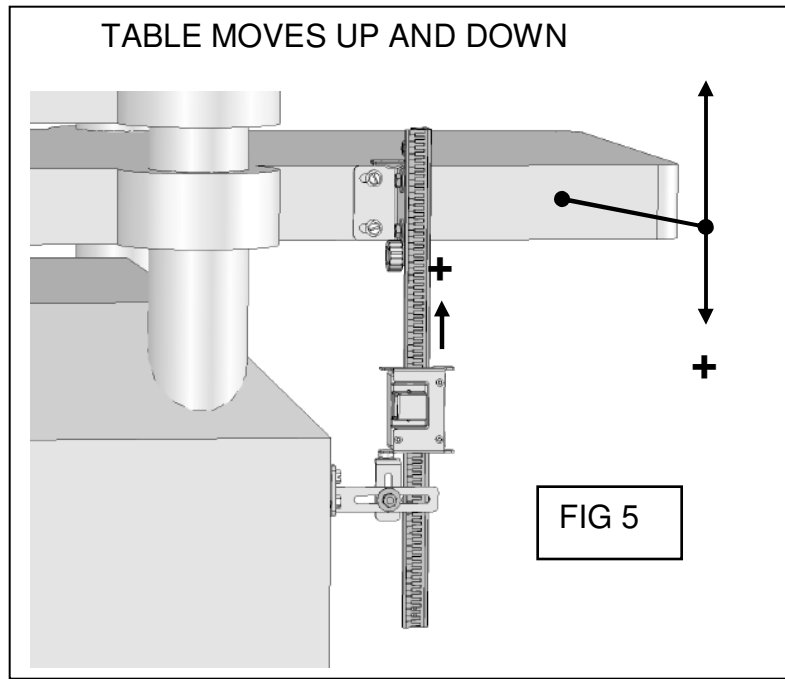
1- Slide the sensor onto the scale

The sensor can only go on the scale one way. Be sure the pattern on the sensor decal matches the pattern on the scale.

Scale

Sensor   Sensor decal

2- Select a mounting position

The WR550 can be mounted to a variety of machines in a number of different ways. Either the scale or the sensor can be mounted to a non moving part of the machine as long as the travel direction of the sensor on the scale is in the proper direction as indicated by the arrow and + sign on the sensor decal. (FIG 1-5).

TABLE MOVES UP AND DOWN

+

FIG 1

+

TABLE MOVES UP AND DOWN

+

+

FIG 2

TABLE MOVES UP AND DOWN

+

FIG 3

+

HEAD MOVES UP AND DOWN

+

FIG 4

+

TABLE MOVES UP AND DOWN

FIG 5

3- Mounting the Scale

The scale mounting assembly can be located at any position along the scale. The "L" bracket can be removed and re-attached to the assembly in different positions (steps 1-3 in FIG 6). The slots in the "L" bracket are used to adjust the scale perpendicular to the table surface (FIG 7).

SCALE MOUNTING ASSEMBLY

JAWS

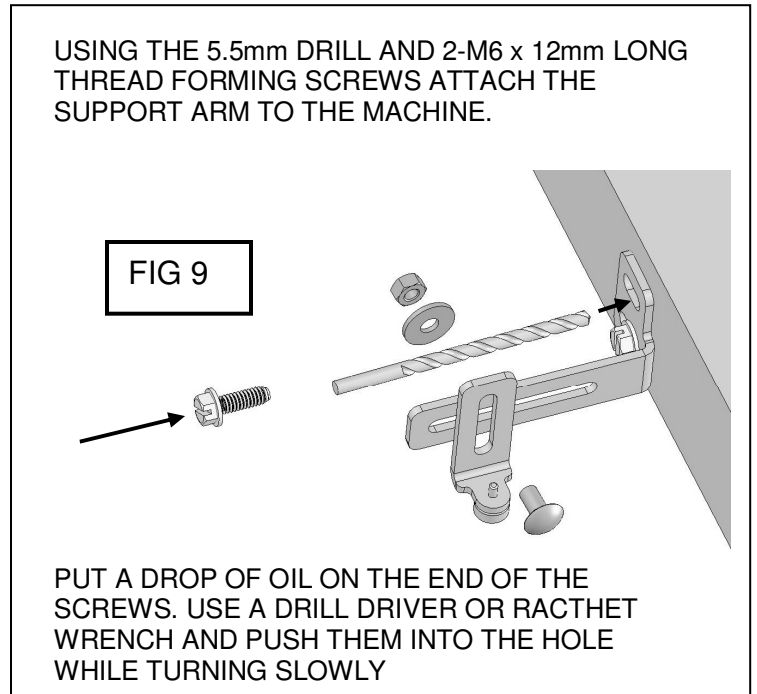1. LOOSEN BOLT AND LOCK KNOB

L-BRACKET

2. SLIDE THE SCALE MOUNTING ASSEMBLY TO ANY POSITION ON THE SCALE. (REMOVING THE SPRING MAY MAKE THIS STEP EASIER)

3. TIGHTEN THE BOLT AND LOCK KNOB. BE SURE THE JAWS ARE ALIGNED FLAT WHEN DONE. REPLACE THE SPRING IF IT WAS REMOVED.

FIG 6

USING THE 5.5mm DRILL AND 2-M6 x 12mm LONG THREAD FORMING SCREWS ATTACH THE L-BRACKET TO THE MACHINE.

FIG 7

PUT A DROP OF OIL ON THE END OF THE SCREWS. USE A DRILL DRIVER OR RACTHET WRENCH AND PUSH THEM INTO THE HOLE WHILE TURNING SLOWLY

4- Mounting the Magnet Connector
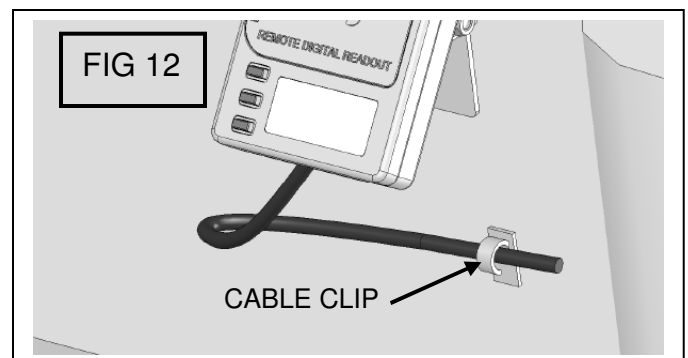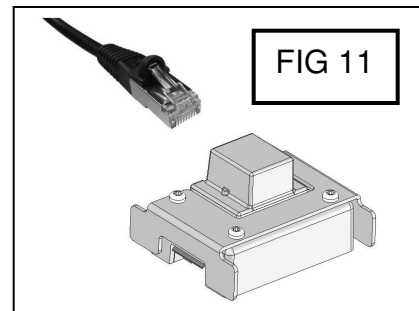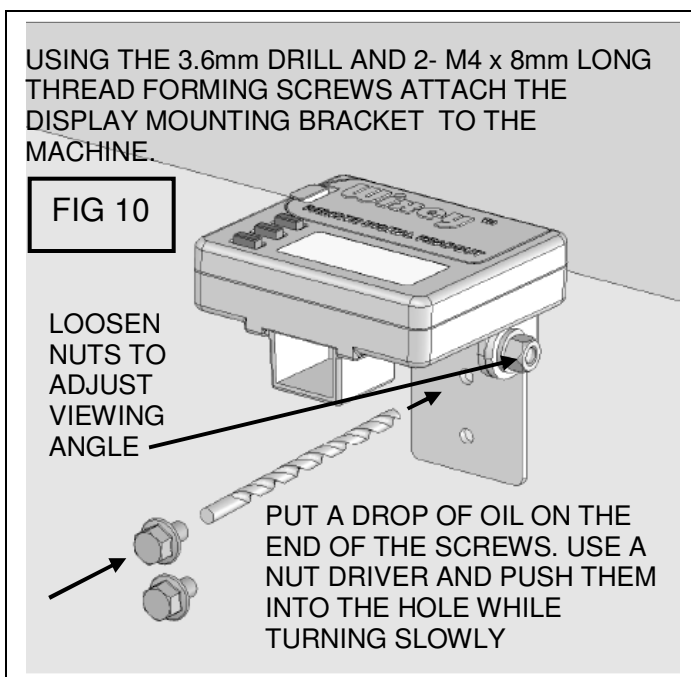
There are 4 tabs on the sensor where the Magnet can attach. There are also a number of possible positions to assemble the Support Arm, Magnet Connector, and Magnet (FIG 8-9).

FIG 8

M6 CARRIAGE BOLT, NUT AND WASHER

SUPORRT ARM

MAGNET CONNECTOR

MAGNET ATTACHMENT TABS

MAGNET

USING THE 5.5mm DRILL AND 2-M6 x 12mm LONG THREAD FORMING SCREWS ATTACH THE SUPPORT ARM TO THE MACHINE.

FIG 9

PUT A DROP OF OIL ON THE END OF THE SCREWS. USE A DRILL DRIVER OR RACTHET WRENCH AND PUSH THEM INTO THE HOLE WHILE TURNING SLOWLY
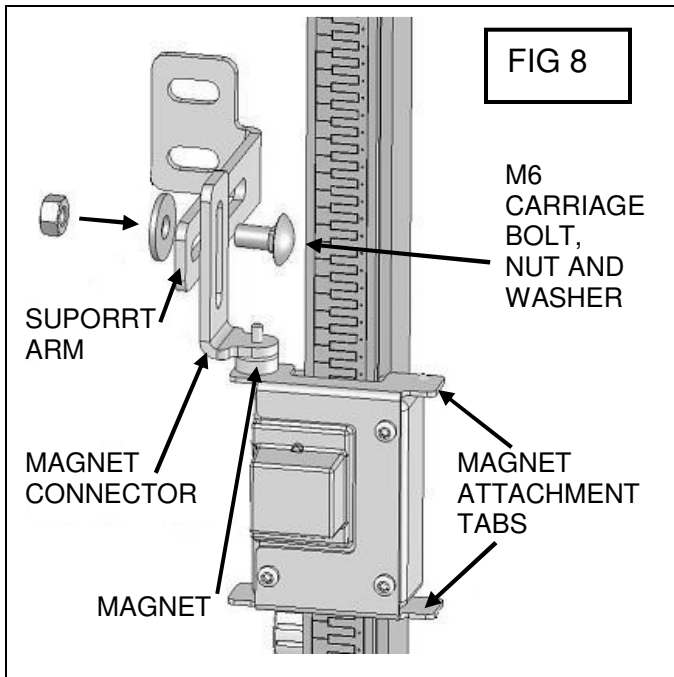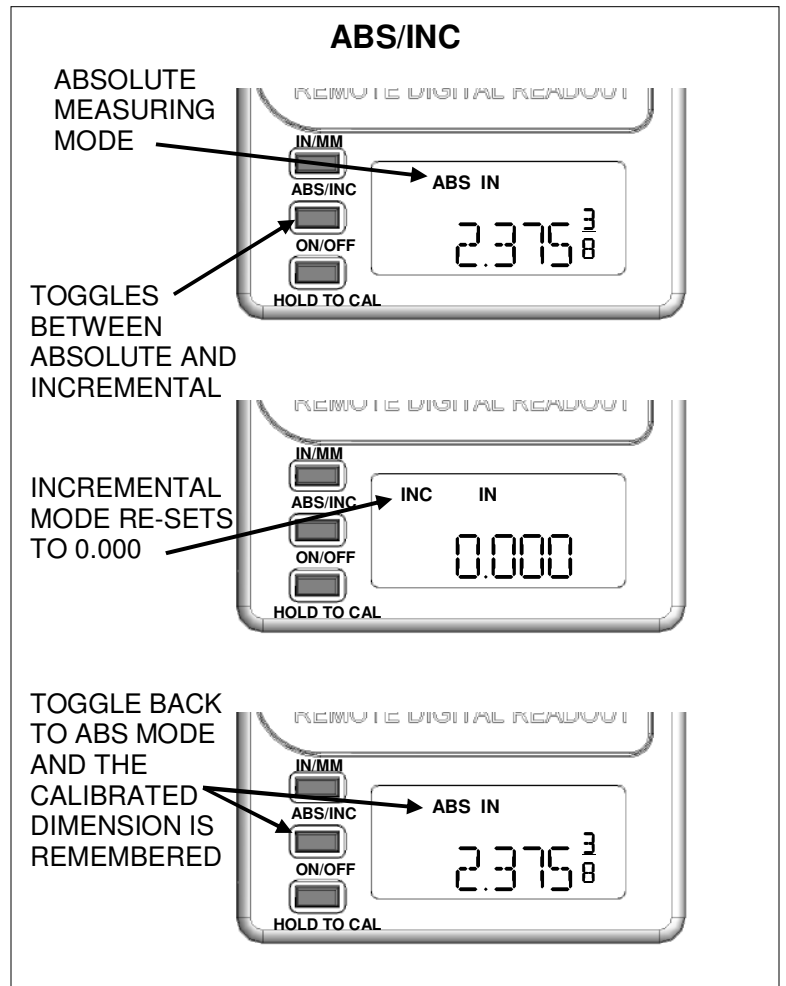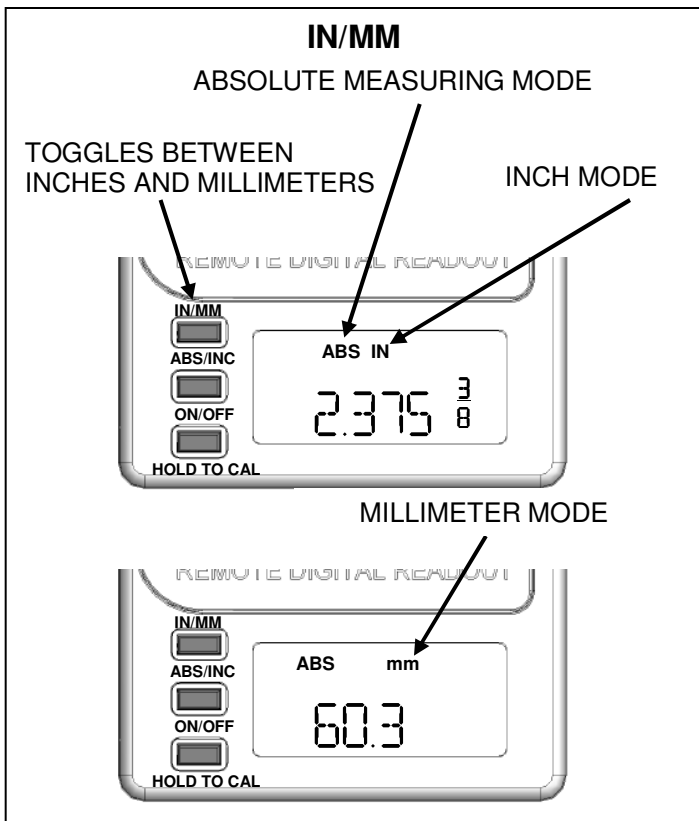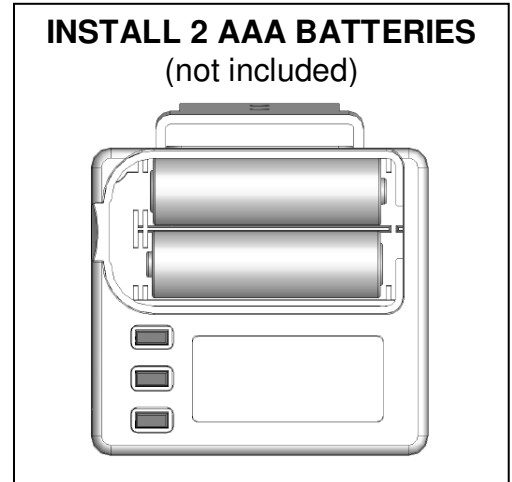
5-Mount the display and connect the Cat 5E cable

Find a suitable location to mount the display (FIG 10). After it is mounted, connect one end of the Cat 5E cable to the display and the other end to the sensor (FIG11). Carefully route the cable using the 4 adhesive backed cable clips. Be sure to use a solvent to clean the surface before applying each clip (FIG12).

NOTE: *If you purchase a shorter Cat 5E cable to use be sure that is a shielded style noted by the metal encased plug.*

USING THE 3.6mm DRILL AND 2- M4 x 8mm LONG THREAD FORMING SCREWS ATTACH THE DISPLAY MOUNTING BRACKET TO THE MACHINE.

FIG 10

LOOSEN NUTS TO ADJUST VIEWING ANGLE

PUT A DROP OF OIL ON THE END OF THE SCREWS. USE A NUT DRIVER AND PUSH THEM INTO THE HOLE WHILE TURNING SLOWLY

FIG 11

FIG 12

CABLE CLIP

ON/OFF and CALIBRATION

ABS IN

0.000

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

- PUSH MOMENTARILY TO TURN OFF AND ON

- HOLD FOR 3-5 SECONDS TO CALIBRATE AND SET TO 0.000

INSTALL 2 AAA BATTERIES
(not included)

IN/MM

ABSOLUTE MEASURING MODE

TOGGLES BETWEEN INCHES AND MILLIMETERS

INCH MODE

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

ABS IN

$2.375 \frac{3}{8}$

MILLIMETER MODE

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

ABS   mm

60.3

ABS/INC

ABSOLUTE MEASURING MODE

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

ABS IN

$2.375 \frac{3}{8}$

TOGGLES BETWEEN ABSOLUTE AND INCREMENTAL

INCREMENTAL MODE RE-SETS TO 0.000

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

INC   IN

0.000

TOGGLE BACK TO ABS MODE AND THE CALIBRATED DIMENSION IS REMEMBERED

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

ABS IN

$2.375 \frac{3}{8}$
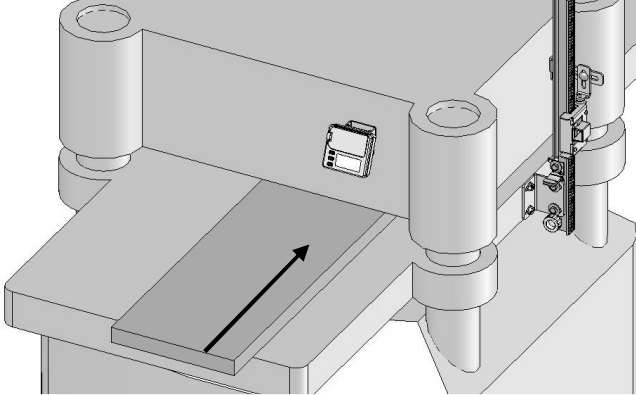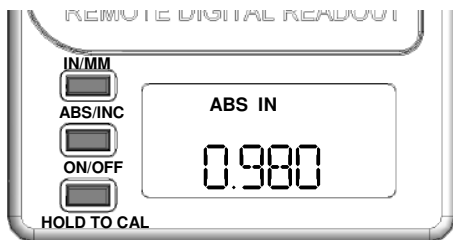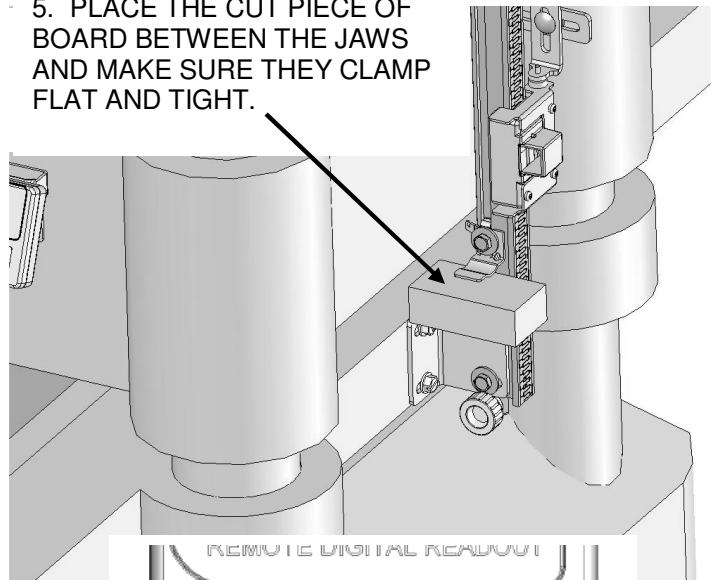
7-Calibration

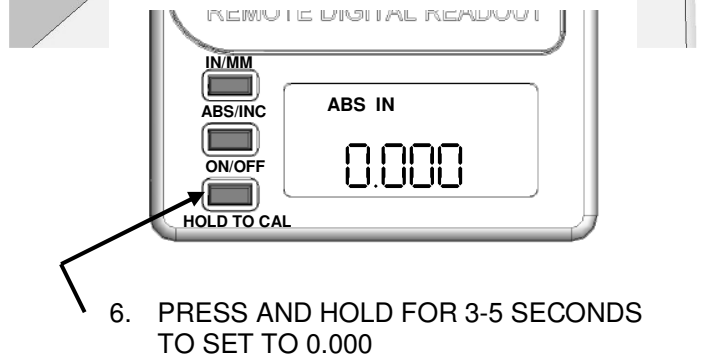Follow steps 1-7 below to accurately calibrate your readout.

1. RUN A FLAT BOARD 1" THICK OR LESS THROUGH THE MACHINE MAKING SURE THAT MATERIAL IS REMOVE FROM THE ENTIRE TOP SURFACE. DO NOT CHANGE THE SETTING WHEN DONE.

2. CUT A SMALL SECTION OF BOARD TAKING CARE TO AVOID THE END WHICH MAY HAVE SOME SNIPE

3. LOOSEN THE LOCK KNOB

4. LIFT THE SCALE UPWARDS TO OPEN THE JAWS. DO NOT OPEN MORE THAN 1".
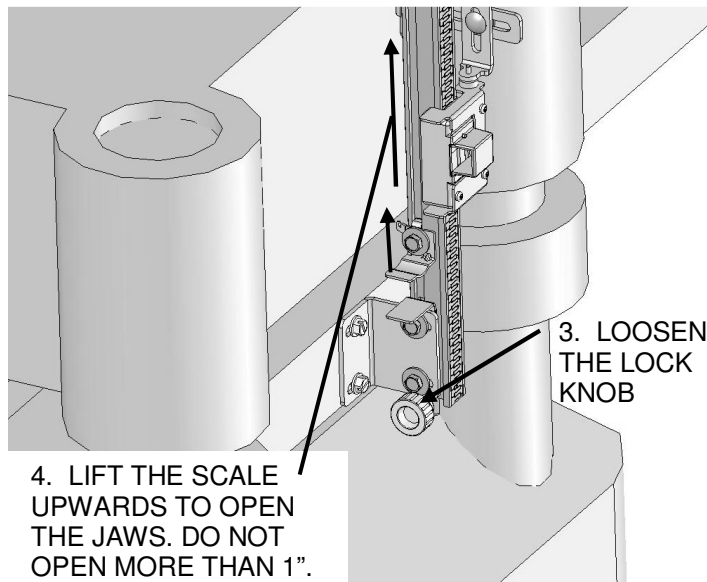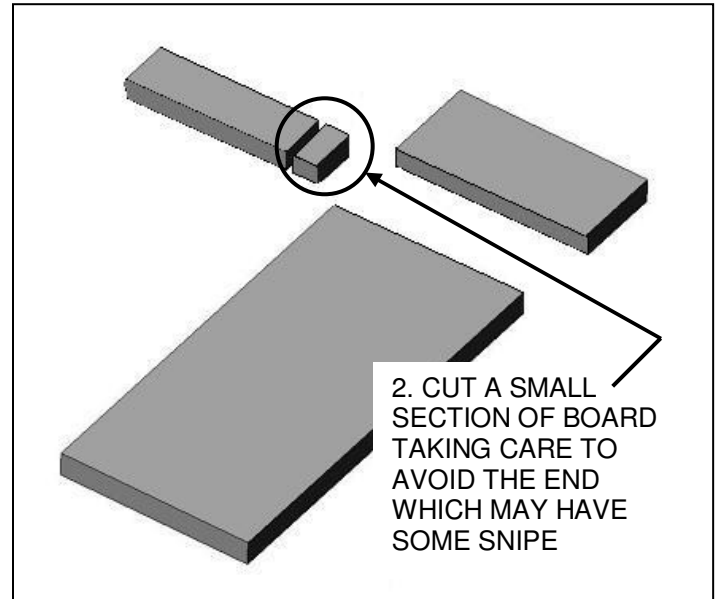
5. PLACE THE CUT PIECE OF BOARD BETWEEN THE JAWS AND MAKE SURE THEY CLAMP FLAT AND TIGHT.

REMOTE DIGITAL READOUT

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

ABS IN

0.980

7. REMOVE THE BOARD ALLOWING THE JAWS TO CLOSE COMPLETELY. TIGTHEN THE LOCK KNOB. THE DISPLAY SHOWS THE BOARD THICKNESS AND THE READOUT IS NOW CALIBRATED.

REMOTE DIGITAL READOUT

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

ABS IN

0.000

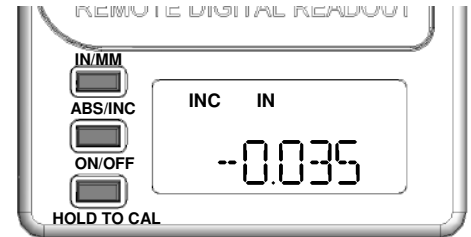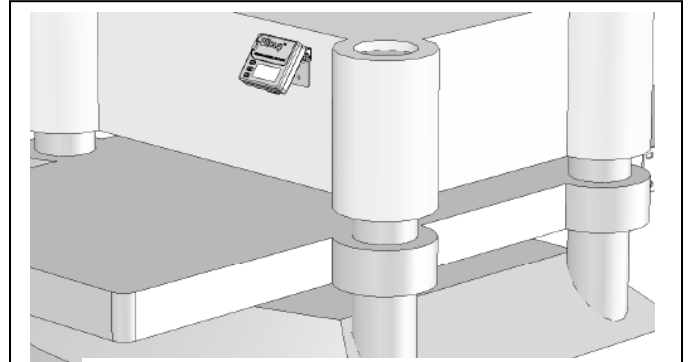6. PRESS AND HOLD FOR 3-5 SECONDS TO SET TO 0.000

8-Removing an Exact Amount of Material

Follow steps 1-3 below when you want to make a final pass to remove an exact amount of material.

1. AFTER RUNNING A BOARD THROUGH THE CUTTER HEAD DO NOT ADJUST THE HEIGHT

REMOTE DIGITAL READOUT

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

INC   IN
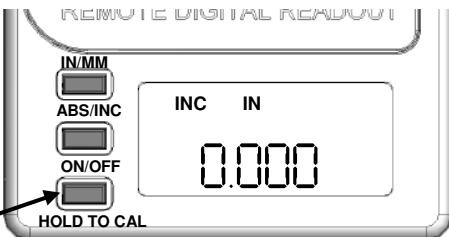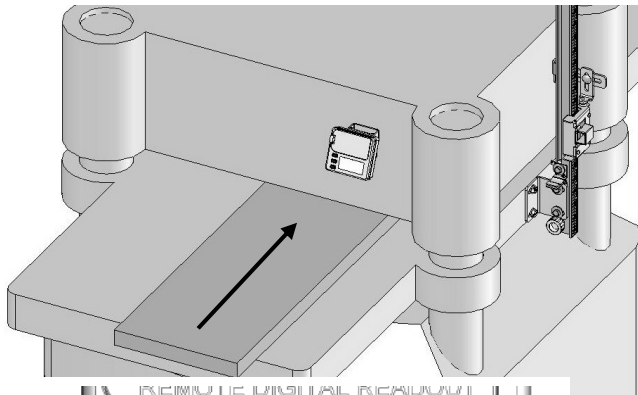
0.000

2. PRESS TO PUT INTO THE INC MODE AND SET THE DISPLAY TO 0.000

REMOTE DIGITAL READOUT

IN/MM
ABS/INC
ON/OFF
HOLD TO CAL

INC   IN

--0.035

3. ADJUST THE CUTTER HEAD UNTIL THE DISPLAY SHOWS THE AMOUNT OF MATERIAL YOU WOULD LIKE REMOVED

9-Trouble Shooting

Readout issues

The Digital Readout will not function properly or display numbers correctly unless the cable is connected to both the display and sensor. Do not install the batteries or turn it on until everything is properly connected.
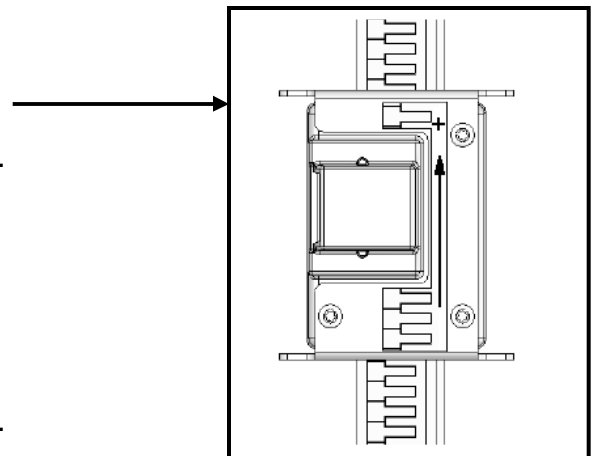
Unstable constantly scrolling numbers
- Insure the sensor is properly installed on the scale.
- Remove the battery, wait 30 seconds and replace it.

Flashing digits, dim, or no display
- Install new batteries.
- Clean batteries and battery contacts.

Frozen display
- Remove the battery, wait 30 seconds and replace it.

Loses calibration
- Make sure that your machine is properly grounded.
- Route the cable away from electric motors or other electrical controls.
- Check for dirt on the scale or inside the sensor. Remove and clean if needed.
- Check for static discharges from a nearby dust collector or other source
    Note: If a static discharge from your finger zaps the readout or a nearby dust collector happens to zap your machine it can cause this error. Make sure the dust collector is properly grounded and the dust port on your saw is grounded to the ground wire inside the dust collector hose.

Accuracy Issues

Small accuracy errors of 1/16" or less
- Be sure the jaws fit tight and flat when in use and when calibrating.
- Be sure the lock knob is tight.
- Check for loose or flexing brackets.
- Make sure that the scale is perpendicular to the table in all planes.
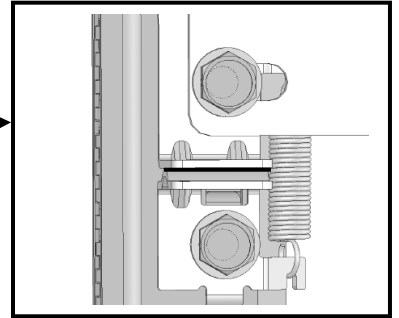
Large accuracy errors of .200" or more

- An error of exactly .200" is a very common error number with these devices or even a multiple of it like .400, .600, 1.200 etc. Usually this only happens when the readout is either moved very quickly (more than 3 feet per second) Follow the same steps outlined in the "**Loses calibration"** section above**.**

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	WR5501	sensor	1	17	WR5519	M3 hex nut	1
2	WR5502	display	1	18	WR5520	M6 flat washer	4
3	WR5503	scale	1	19	WR5521	M6 x 12mm long carriage bolt	1
4	WR5504	sensor strip	1	20	WR5506	extension spring	1
5	WR5508	wedge	1	21	WR5522	5.5mm drill bit	1
6	WR5509	"L" bracket	1	22	WR5523	3.6mm drill bit	1
7	WR5510	slide	1	23	WR5524	M6 x 12mm long thread forming screw	4
8	WR5511	lower jaw	1	24	WR5525	cable clip	4
9	WR5512	wedge nut	1	25	WR5526	M6 hex nut	1
10	WR5513	upper jaw	1	26	WR5527	M5 lock nut	2
11	WR5514	M6 x 10mm long flat head screw	1	27	WR5528	M5 x 12mm long carriage bolt	2
12	WR5515	knob	1	28	WR5529	display mounting bracket	2
13	WR5516	M6 x 12mm long hex head screw	1	29	WR5530	M6 x 16mm long hex head screw	2
14	WR5517	support arm	1	30	WR5507	Cat 5e shielded cable 2M long	1
15	WR5518	magnet mount	1	31	WR5531	M4 x 8mm long thread forming screw	2
16	WR5505	magnet	1				
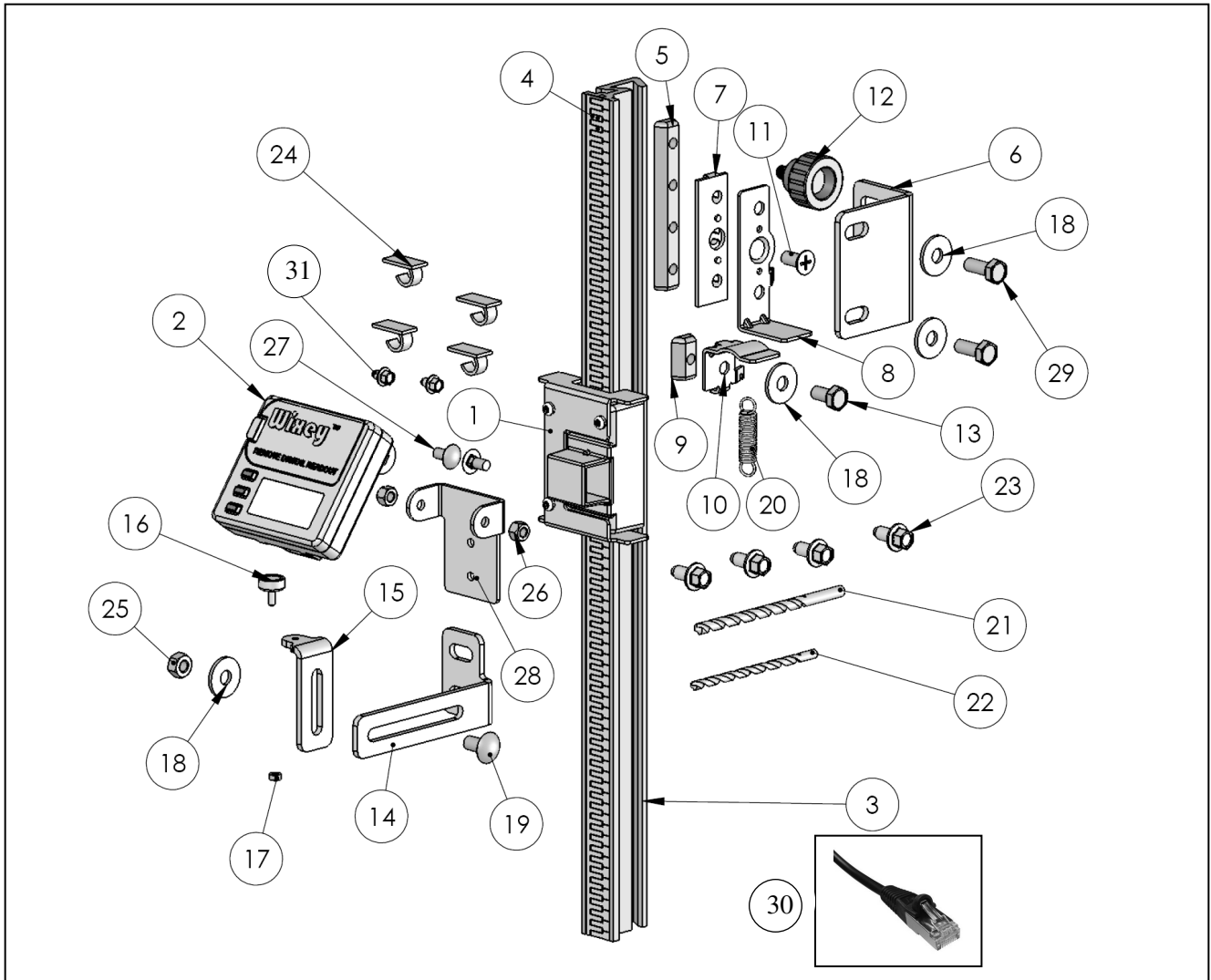
For questions, comments, spare parts, and application examples go to: www.wixey.com

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