

# 2.4-inch LCD Display User Manual

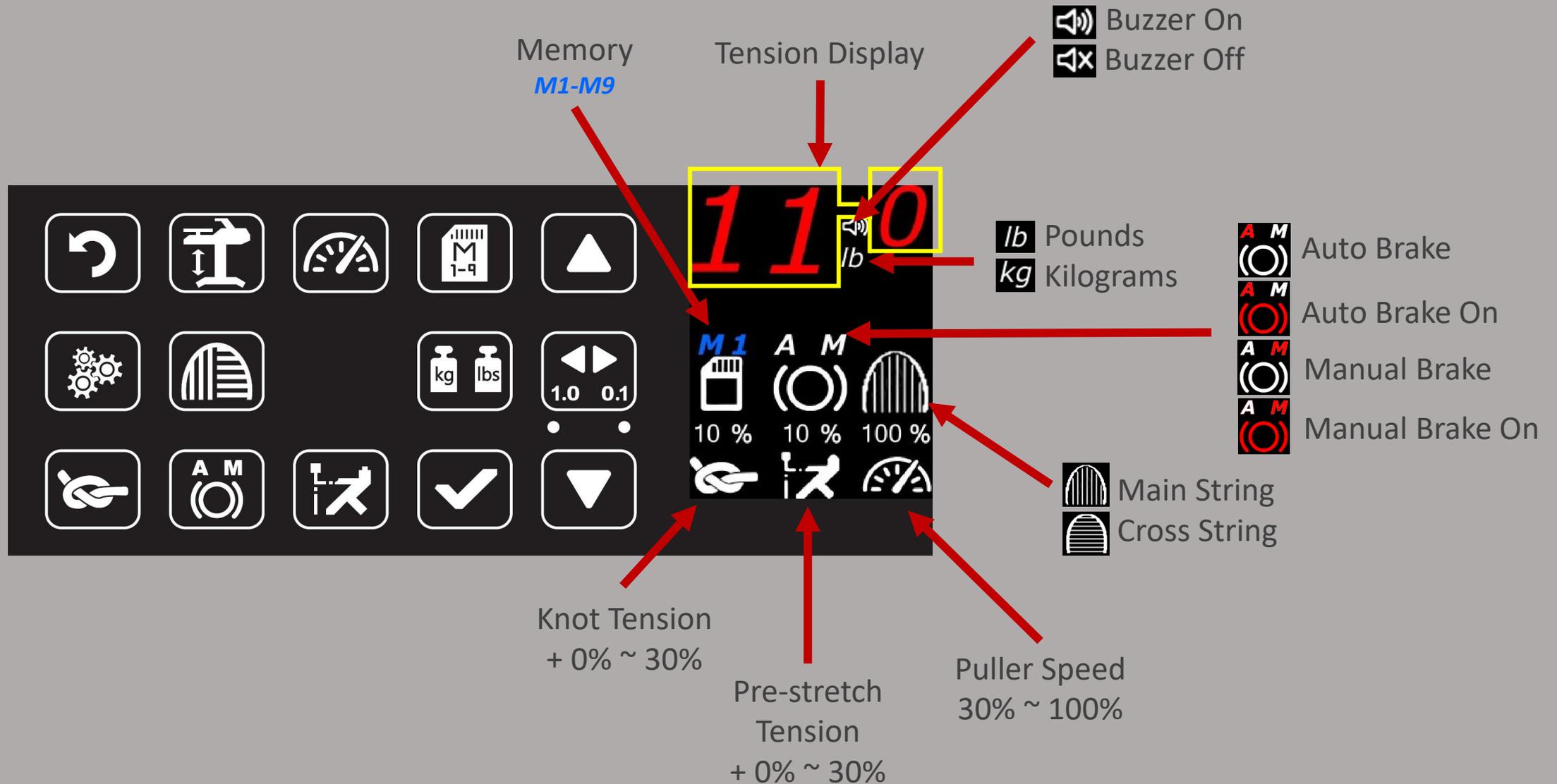
# Electronic Box

(Touch)  
14 BUTTONS

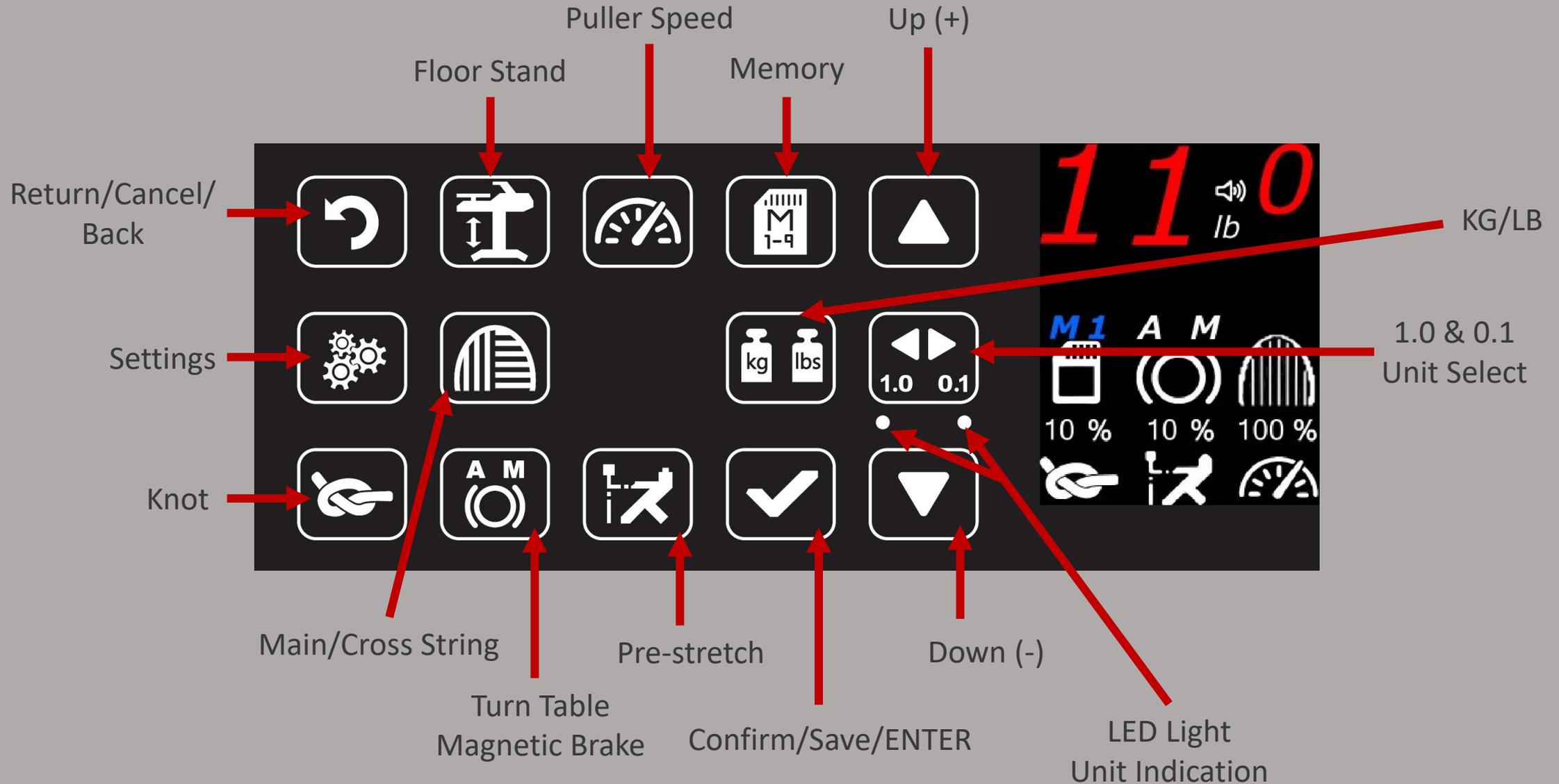
(No Touch)  
LCD



# LCD Display (not touch sensitive)



# 14 Buttons

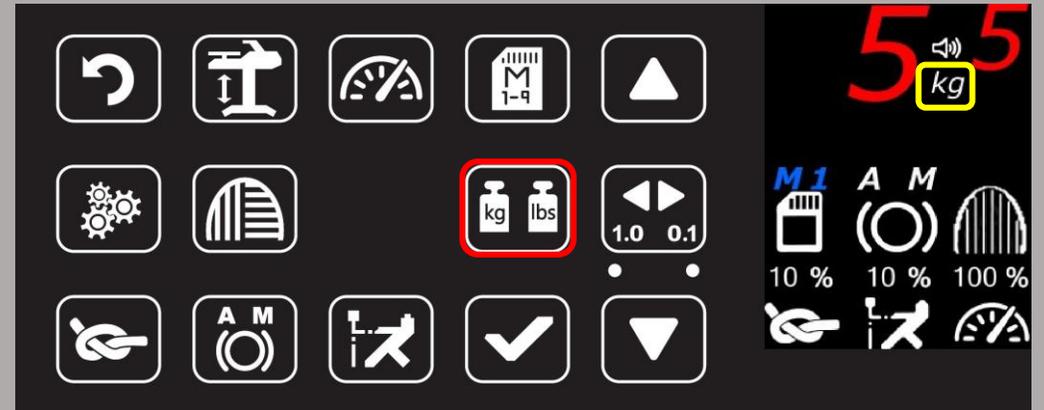


## Weight Unit KG→LB→KG

1. The image on the right shows the LCD switching from kilograms to pounds.



2. Weight Unit can be changed at any time.  
(Global setting throughout software)



## System Diagnostics

1. At power up a Welcome screen appear on LCD.
2. Diagnostic runs.
3. Green checkmark appears next to each item if no errors are found.
4. Red cross appears on an error. 



## Tension Setting (1.0 Units)

1. Use Up(+) button and Down(-) button to adjust 1.0 Units.



## Tension Setting (0.1 Units)

1. Press  button to select 0.1 (and 1.0) Units.

2. Use Up(+) button and Down(-) button to adjust 0.1 (and 1.0) Units.



3. Hold the up/down button longer and it will scroll.



## Tension Memory Setting & Selections

1. Press Memory Button  to select the memory setting.
2. Press  again and on LCD will cycle through M1, M2, M3, M4, M5, M6, M7, M8, M9, and then back to M1 in sequence. The display method is shown in the image on the right.
3. Each memory can be set to any value and saved with ENTER  button.

Memory M1~M9	Factory Default Value	
	lb	kg
M1	11.0	5.0
M2	22.0	10.0
M3	33.0	15.0
M4	44.0	20.0
M5	55.0	25.0
M6	66.0	30.0
M7	77.0	35.0
M8	77.0	35.0
M9	77.0	35.0



## Set Cross String Tension

1. Push  button to toggle between Main & Cross strings.
2. If Cross string is selected, a different Cross string tension can be set, and saved by  button.
3. The value of main-string is shown at Tension Reminder area  15.5 as a reminder for the stringer during cross stringing.

### Main-String Tension Mode



### Cross-String Tension Mode



### Main-String Tension Mode



## Knot Setting

1. Press knot button to activate.



2. Knot Icon on LCD turns yellow.

3. Knot function is only active for 1 pull.

4. Hold knot button longer (3 seconds), and knot % can be adjusted from 0 ~ 30%, and saved by press



5. When knot function is active, LCD shows string tension including added knot %.

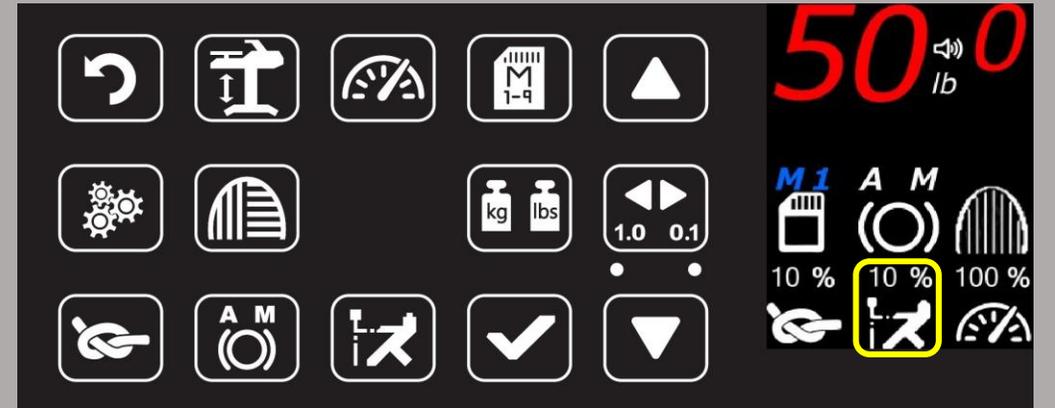


## Pre-stretch Setting

1. Press Pre-Stretch button to activate.



2. Hold Pre-Stretch button longer (3 seconds) and Pre-Stretch % can be adjusted from 0 to 30%, and saved by press  button.



## Puller Speed Adjustment

1. Hold  button longer (3 seconds), and speed % can be adjusted from 30% to 100%, and saved by pressing  button.



## Magnetic Turntable Brake On/Off

Note: This function will only be displayed on LCD if Magnetic TT brake is installed & enabled.

1. Press Brake button  to lock Turntable. When activated, brake icon on LCD will turn to RED color.
2. Hold Brake button longer (3 seconds) and A (Automatic) or M (Manual) brake function can be toggled from A→M→A.
3.  Automatic Brake Function: The turntable (TT) locks automatically when the string is being pulled. Even with the Automatic Brake Function active, you can manually lock or unlock the turntable at any time by pressing the brake button.
4.  Manual Brake Function: The turntable (TT) will lock while the brake button is pressed.
5. Press brake button again to unlock the TT.



## Enter the Settings Screen

1. Press and hold  button 3 seconds to enter the settings screen.
2. Use   buttons to scroll system settings.
3. Use  button to select.
4. Use  button to exit.



## String Length Meter Screen

Note: This function will only be available if it is activated.

1. In the Settings screen, select 'String Length Meter' and press  to enter the String Length Meter function screen.
2. Press  to set string length to 0.0
3. To return to the settings options screen, press  button.

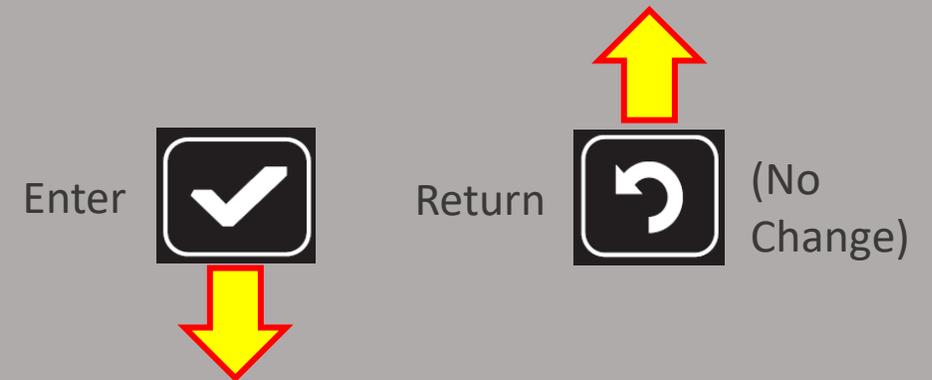


## Buzzer On/Off

1. In the Settings screen, select the 'Buzzer ON/OFF' option and press  to enter the buzzer switch selection screen.

2. Press  or  to choose ON or OFF.

3. After selecting, press  to return to the options screen or press  to make no changes and return to the settings options screen.



## Total Pulls Display

1. In the Settings screen, select the 'Total Pulls' option and press  to enter the Total Pulls display screen.

2. To return to the options screen, press  to go back to the settings options screen.



# Touch Sensitivity Adjustment of the Electronic Box

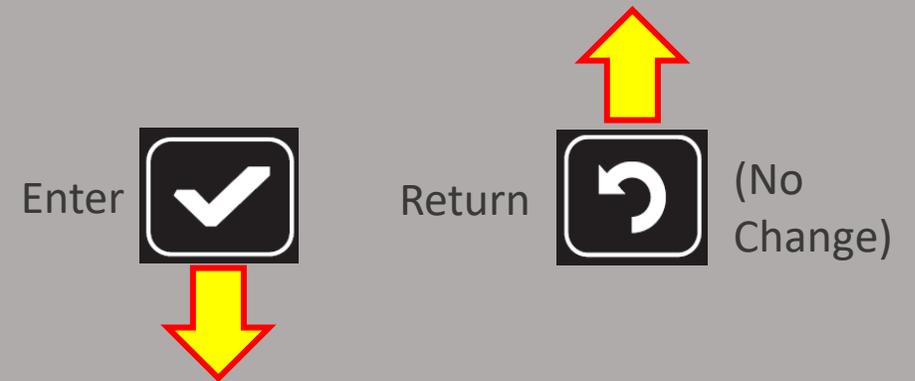
## (14 Touch Buttons)

1. In the Settings screen, select 'Electronic Box Touch Sensitivity' and press  to enter.
2. Press  or  to select the touch sensitivity level.



3. After selecting the sensitivity, press  to confirm and return, or press  to make no changes and return to the options screen.

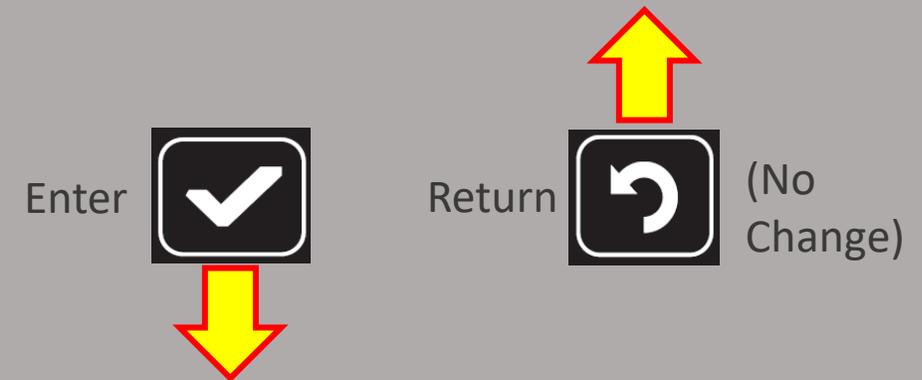
**Warning:** Avoid changing the settings unless necessary. Setting the sensitivity too high may cause the button to engage without physical contact



## Restore to Factory Default Settings

1. In the Settings screen, navigate to the 2nd page by pressing  and select 'Restore Factory Setting' and press  to enter the restore to factory settings screen.
2. Press  or  to choose YES or NO.
3. After making a selection, press  to restore the electronic box to factory settings and return to the options screen, or press  to make no changes and return to the settings options screen.

**Warning:** Restoring to Factory Default Settings will reset the calibration to its original factory settings and remove all previous user calibrations.



## Calibration

1. Press and hold the Settings button  for 3 seconds.

2. Press  to navigate to the second page of the menu options.

3. Select 'Calibration' and press  to enter the calibration mode, as shown in the image on the right.

4. Calibration is set up by going through the following 4 steps:



## -First Calibration Point (LB)

1. Place the tension meter on the machine, and press the START/STOP button on the puller head. Pull the tension until the value is displayed on the meter. Then press  or  to adjust the calibration value until it matches the value on the meter. Once adjusted, press  to save the calibration value.



## - Second Calibration Point (LB)

1. Place the tension meter on the machine, and press the START/STOP button on the puller head. Pull the tension until the value is displayed on the meter. Then press  or  to adjust the calibration value until it matches the value on the meter. Once adjusted, press  to save the calibration value.



## - Third Calibration Point (LB)

1. Place the tension meter on the machine, and press the START/STOP button on the puller head. Pull the tension until the value is displayed on the meter. Then press  or  to adjust the calibration value until it matches the value on the meter. Once adjusted, press  to save the calibration value.



## - Fourth (Final) Calibration Point (LB)

1. Place the tension meter on the machine, and press the START/STOP button on the puller head. Pull the tension until the value is displayed on the meter. Then press  or  to adjust the calibration value until it matches the value on the meter. Once adjusted, press  to save the calibration value.
2. Calibration is completed.



## -First Calibration Point (KG)

1. Place the tension meter on the machine, and press the START/STOP button on the puller head. Pull the tension until the value is displayed on the meter. Then press  or  to adjust the calibration value until it matches the value on the meter. Once adjusted, press  to save the calibration value.



## - Second Calibration Point (KG)

1. Place the tension meter on the machine, and press the START/STOP button on the puller head. Pull the tension until the value is displayed on the meter. Then press  or  to adjust the calibration value until it matches the value on the meter. Once adjusted, press  to save the calibration value.



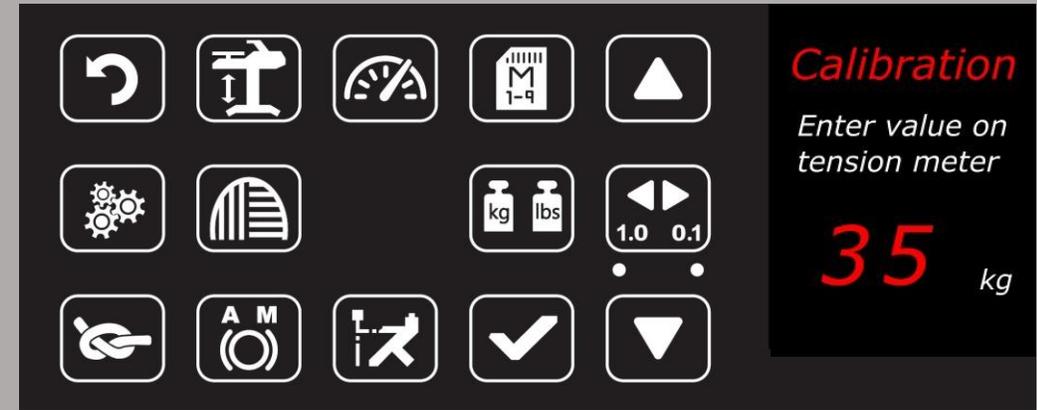
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1. Place the tension meter on the machine, and press the START/STOP button on the puller head. Pull the tension until the value is displayed on the meter. Then press  or  to adjust the calibration value until it matches the value on the meter. Once adjusted, press  to save the calibration value.



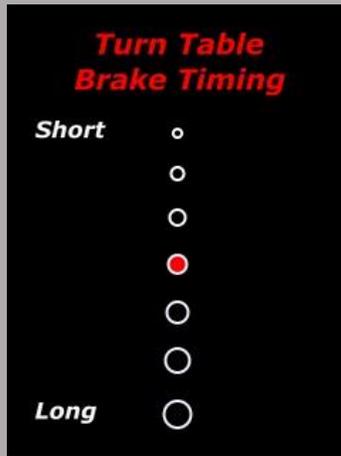
## - Fourth (Final) Calibration Point (KG)

1. Place the tension meter on the machine, and press the START/STOP button on the puller head. Pull the tension until the value is displayed on the meter. Then press  or  to adjust the calibration value until it matches the value on the meter. Once adjusted, press  to save the calibration value.
2. Calibration is completed.



## Turntable Brake Activation Time Adjustment

1. In the Settings screen, navigate to the 2nd page by pressing  and select 'Turn Table Brake Timing' and press  to enter.
2. Press  or  to select the turntable brake activation time. The activation time levels are shown below.



Slower



Faster

3. After making a selection, press  to return to the options screen or press  to make no changes and return to the settings options screen.

