

445T / 455T IR COMPENSATION, PWM and LOAD Calibration

Procedure

Important Instructions before moving forward

- 1.) Use an insulated screwdriver being careful not to touch any of the live components
- 2.) Gently scrape the red paint off each potentiometer before making your adjustment
- 3.) Make sure you turn the potentiometers very slowly and wait for a response. Turning them too fast can demagnetize the motor or damage the LCB.
- 4.) Tip machine on nose, remove plugs from motor tray to access potentiometers.

IR Compensation (Correct belt pulsation)

- In **Test Mode** bring the treadmill up to **1mph** by pushing Quick Start then the Speed Up + key.
- Adjust the **PT6** (IR Comp) potentiometer clockwise or counter clockwise until you no longer see the belt pulsating.
- After the belt is running smooth, press the Stop key once and run speed calibration by holding down the quick start key for 3 seconds.
- Once speed cal has been completed, position the unit upright and make sure the belt is not pulsating during operation.

PWM Calibration (Value needs to be below 220 in order for the treadmill to pass speed cal)

- In **Test Mode** bring the treadmill up to Max speed (Varies per treadmill model: 10.0, 11.0 or 12.4 MPH) by pushing Quick Start then the Speed Up + key.
- Press the **CAL** key to display the **PWM** value on the top display window
- If the value is above 220, adjust the **PT4** (Max speed) clockwise. You will notice the belt speed decrease. Push the Speed Up + key to increase the speed back to Max speed. Continue to adjust the **PT4** potentiometer until the above window reads below 230 at Max speed.
- After the above window reads below 220 at Max speed, press the Stop key once and run speed calibration by holding down the quick start key for 3 seconds.

Load Calibration (Value needs to be between 30-40 in order for unit to pass speed cal)

- In **Test Mode** bring the treadmill up to Max speed (Varies per treadmill model: 10.0, 11.0 or 12.4 MPH) by pushing Quick Start then the Speed Up + key.
- Press the **METS** key to display the **Load** value on the top display window. If the value is not between 30 - 40, adjust the **PT8** (Curr Sense) counter clockwise to decrease the value or clockwise to increase the value. *Note:* The PT8 potentiometer is very sensitive.
- After the above window reads between 30-40 at Max speed, press the Stop key once and run speed calibration by holding down the quick start key for 3 seconds.

