Mounting the new 600 Pulse Tacho sensor in the Curve 3 Treadmill

First you will need to remove the side cover to access the Tacho and the XPV7 Interface PCB.

loosen the two screws at the base of the cover. Then remove the screw at the top.

The cover will then slide up to remove it.

Unplug the Heart rate cable connector.

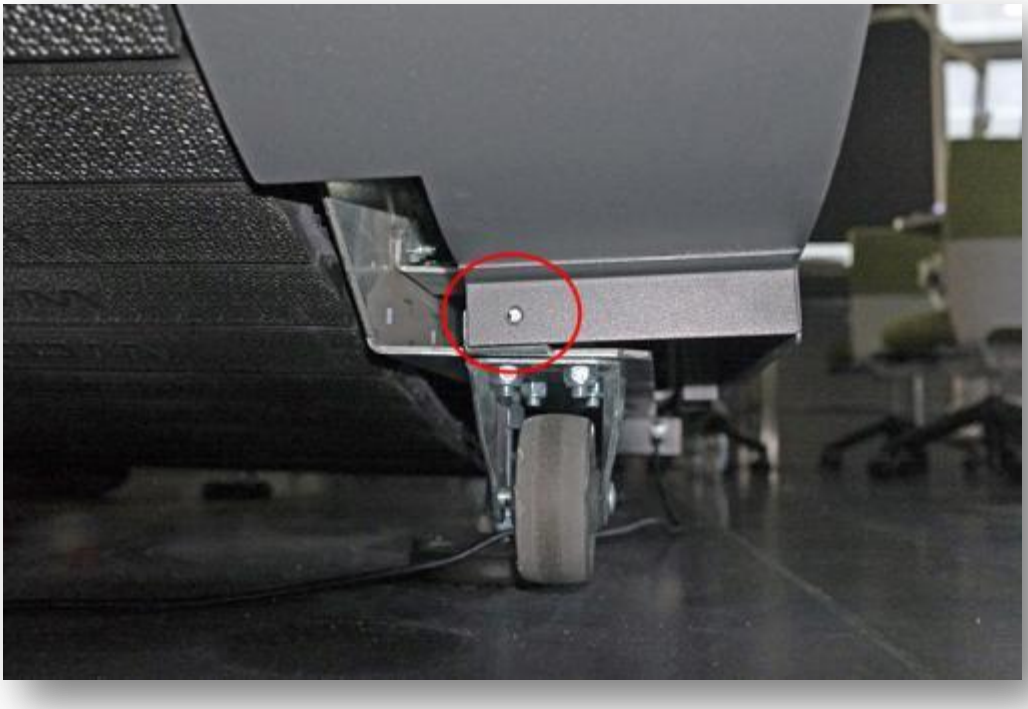
Unplug the other control panel connector.

Using a 14mm Socket with extension to Remove the four bolts securing the upright to the treadmill on both sides.

Lift the upright straight up and it will slide out of its locating guides to allow you to remove it.

Standing at the rear of the treadmill where the lifting handle is you will need to remove the 6 allen head bolts using a metric No. 4 allen key.

You may also need to remove two screws on the underside of the side panel at either end.



When all screws/bolts are removed lift the panel slightly and slide away from the treadmill.

This will give you access to the Tacho and XPV7 Interface PCB

Remove old sensor from shaft using a 3/32 Allen key.

Remove the slotted disk using a T25 Torx (star) bit.

Screw in the spindle attachment for new sensor (Add a drop of Loctite 243 to the thread before inserting.)

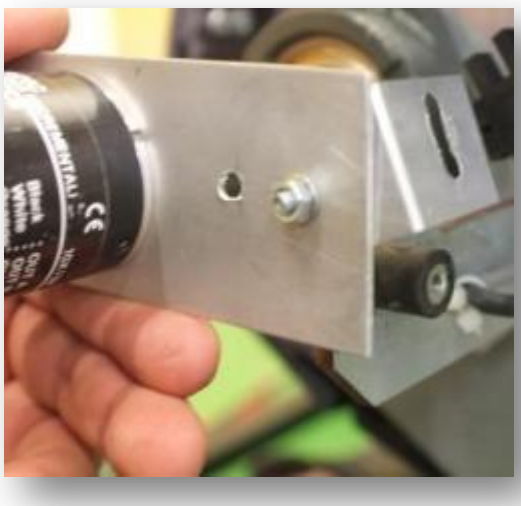
Then tighten.

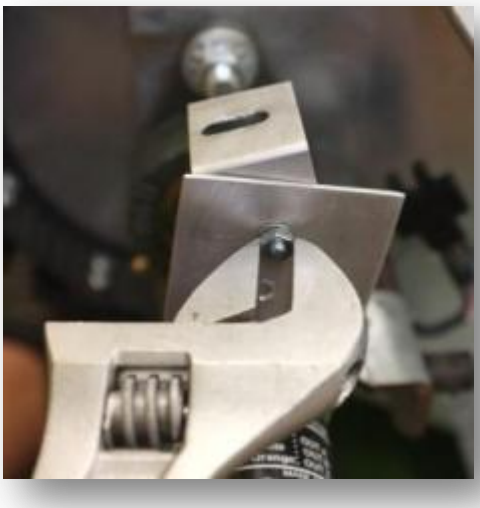
Insert the sensor spindle into its mounting point. Then tighten the grub screw after applying a drop of loctite 243.

Loosely attach the adjustable Right angle piece to the the sensors aluminium support plate.

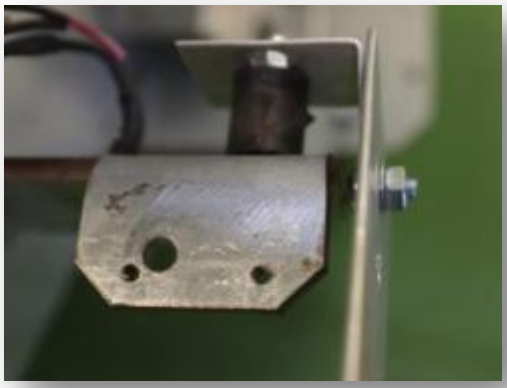
Drill a 4.5mm Hole in the old sensor mount and attach the flexible rubber mount using M4 nut, bolt and star washer.

Rotate the sensor to assist in aligning the adjustable right angle mounting plate. when in correct position tighten the nut.





Attach the adjustable right angle mounting plate to the flexible rubber mount.



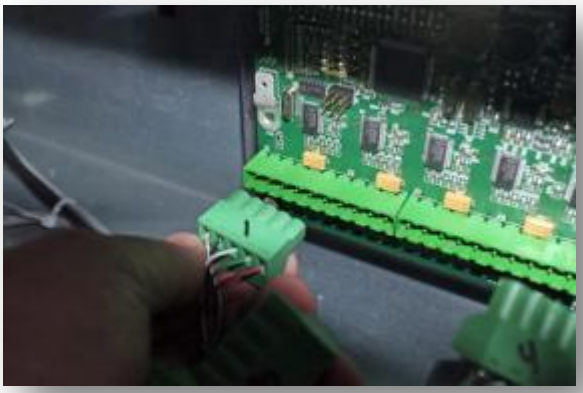
Secure the cable back to the PCB using the cable ties. The Tacho is now installed.

You will now need to change over the PCB. first you will need to label the green mollex connectors that join the load cells to the PCB. This needs to be done to ensure they go back in the correct positions. Label 1-4 left to right.

Next remove the USB lead from the PCB.

Unplug the heartrate and tacho cables from the PCB

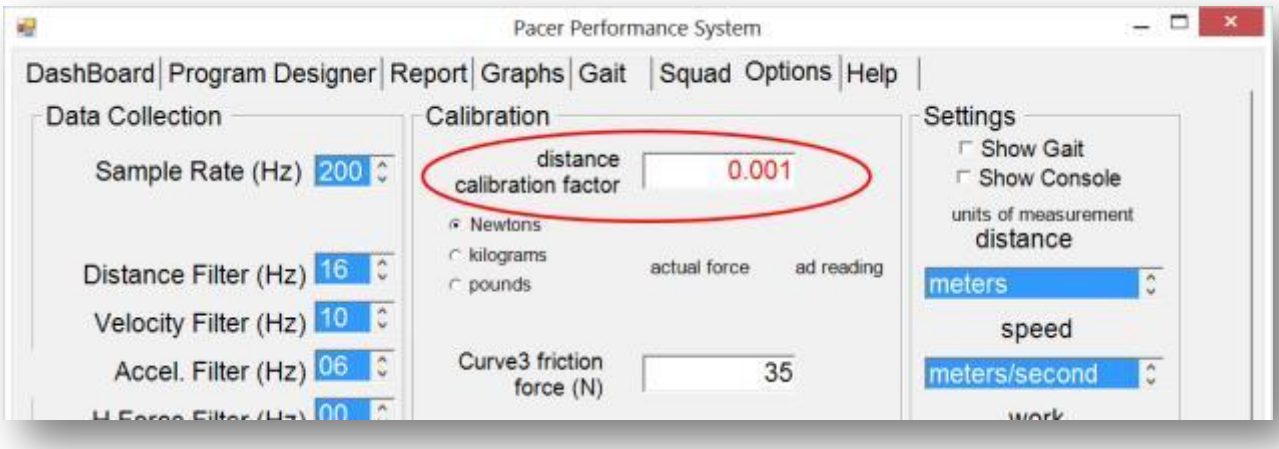
Then unplug the four green mollex load cell connectors. Do this by pulling on the connector, not the cable.



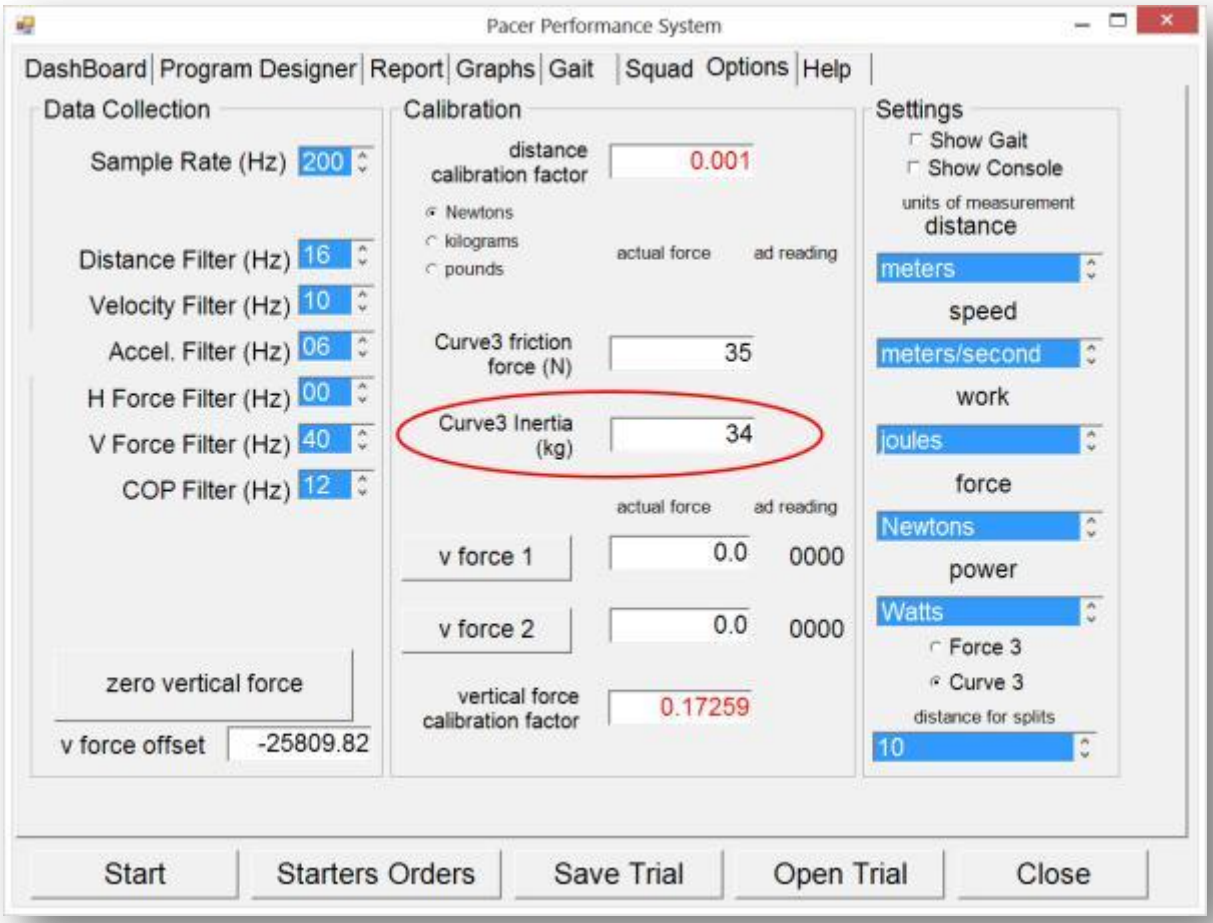
You can then remove the four plastic screws that secure the PCB to the mounting plate.

Replace the old PCB with the new PCB and reverse the process for connecting the cables and reinstalling the side panel and upright of the tradmill.

Once the treadmill is back together you can reconnect the USB lead to a PC and start the Pacer Performance System Software. You will need to change the distance calibration factor from 0.02 to 0.001. Go to the Options tab to do this (see below) This tells the software that every pulse signals 1mm of deck travel instead of the old 20mm.



You will also need to enter a Curve 3 inertia value of 34kg to let the software know the weight of the running deck.



The tacho upgrade is now complete.