

# Monitor and Sensor Trouble Shooting Guide

*This document applies to E520, VX-3 Rowers, and E620, E720, E820 and E920 Upper Body Ergos*



## Basic Checks

### 1. Monitor Displays Nothing

- Check batteries and replace if necessary

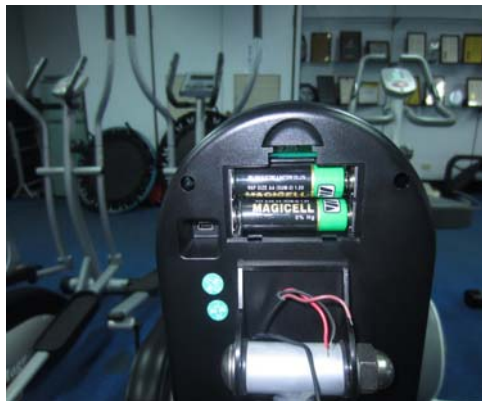
### 2. Abnormal Readings

- Monitor Display is normal but readings do NOT update when exercising
- Monitor readings fluctuate, i.e. are not consistent, during exercise
- Monitor displays 59:59 for 500mTime (Rowers Only)

***These symptoms indicate an issue with either the speed sensor assembly or the wiring between sensor and monitor. To resolve the issue follow the step-by-step instructions below until normal function resumes.***

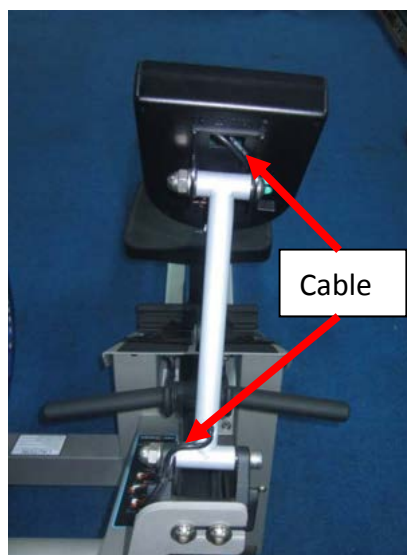
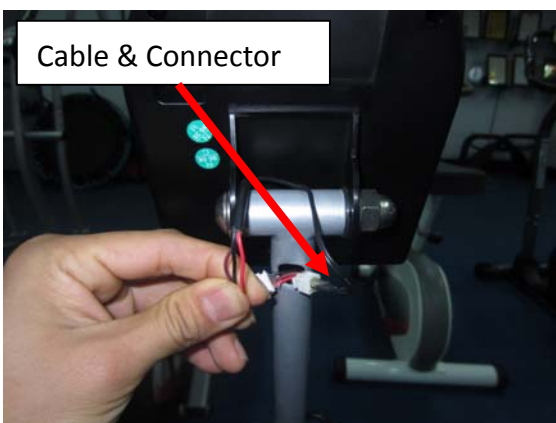
## Troubleshooting

### STEP 1: Remove and replace batteries

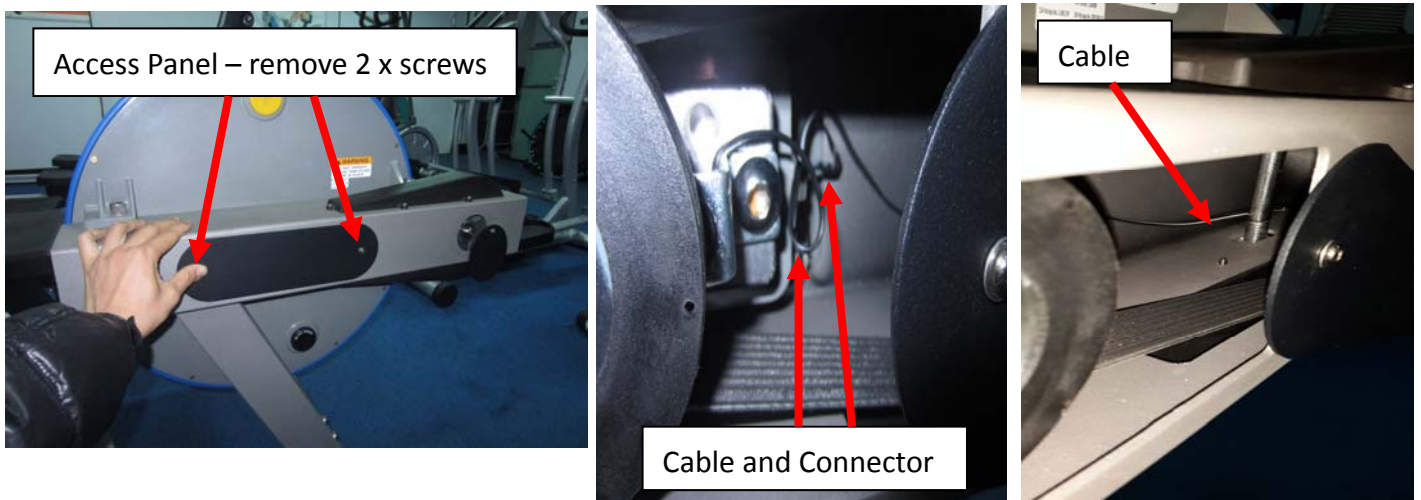


### STEP 2: Check Sensor Connector at rear of Monitor

- Disconnect and re-connect then test monitor input before proceeding.
- Check for obvious sensor cable damage.

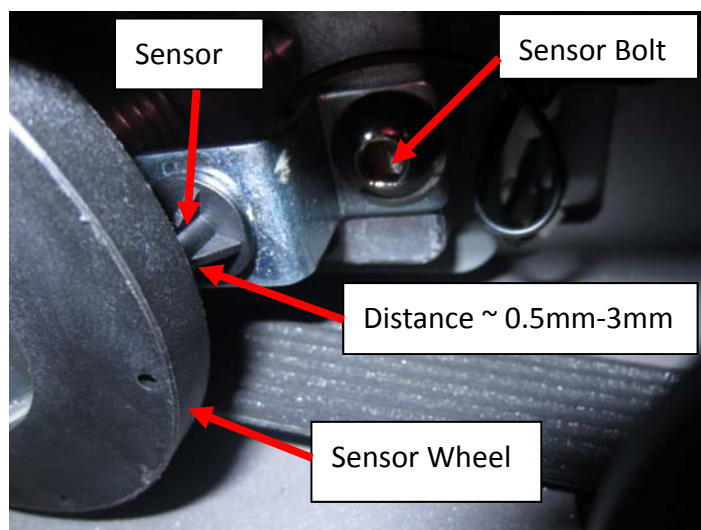
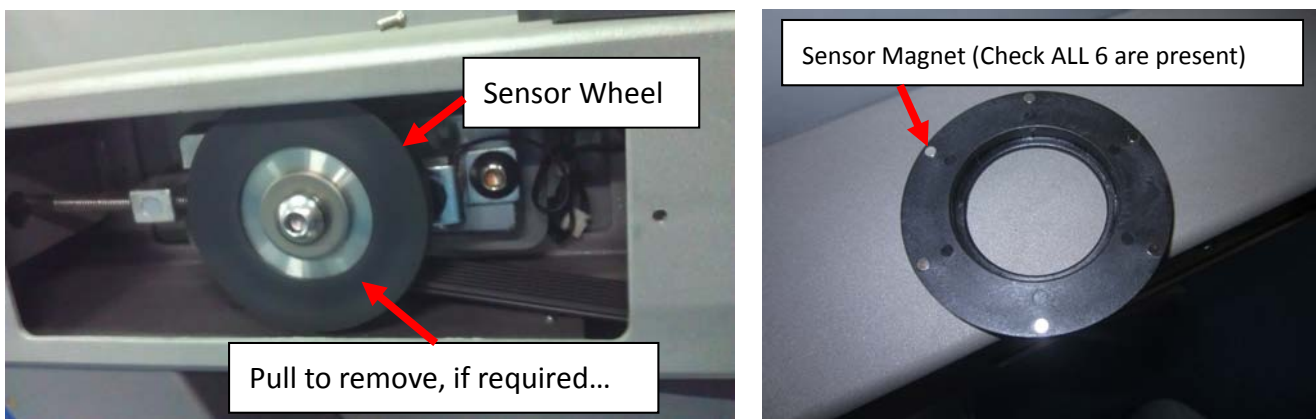


STEP 3: Remove the access panel behind the water tank – check connector and for cable damage.



STEP 4: Check Sensor Assembly

- Use a small mirror to check the six magnets in the sensor wheel
- Check distance between sensor and sensor wheel is between 0.5 and 3mm, closer is better.
- If adjustment is required, remove the sensor bolt and increase or decrease the spacing by adding or removing a spacer washer. Re-install sensor bolt.

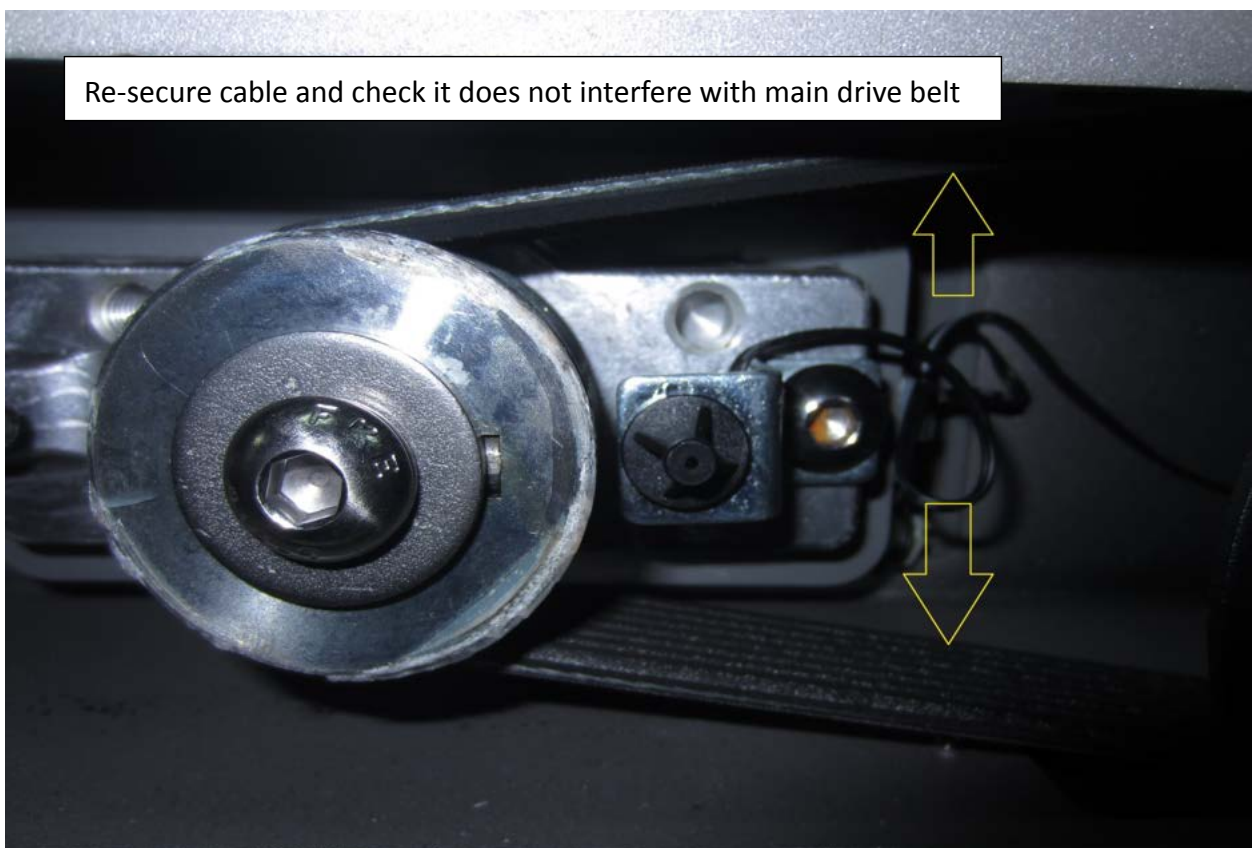
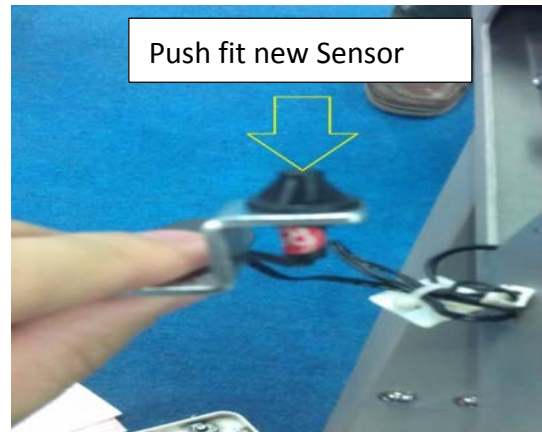
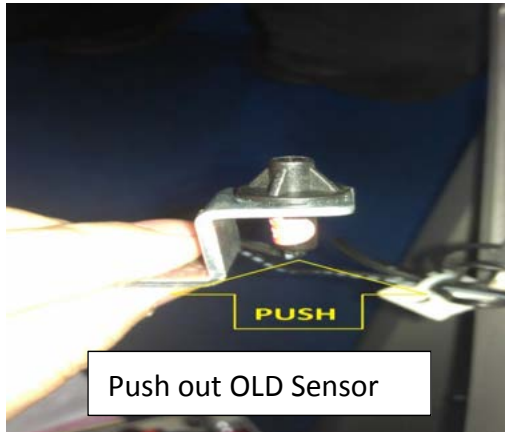
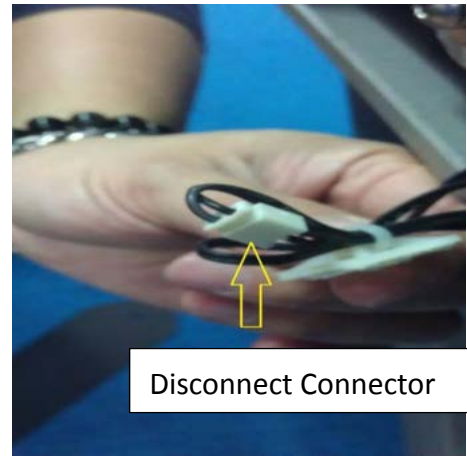
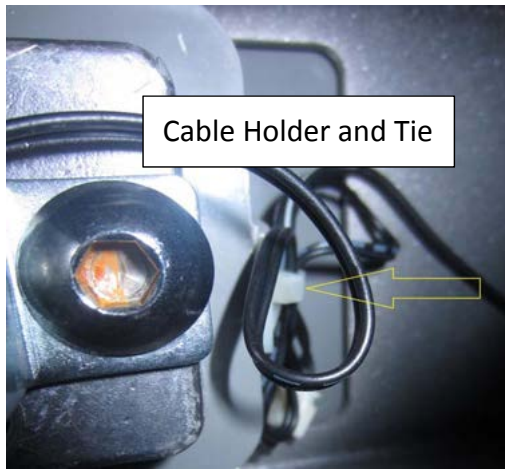


***If steps #1 to #4 fail to resolve the issue then the problem is with the sensor itself and it will need to be replaced.***

STEP 5: Replacing the Sensor (see images below)

1. Remove access panel, if not already done
2. Remove sensor bolt
3. Pull out cable holder from the side wall and cut the cable tie
4. Disconnect the sensor connector
5. Remove old sensor
  - Push out
6. Install new sensor
  - Push-fit
7. Connect sensor connector
8. Install and tighten sensor bolt
9. Check distance between sensor and sensor wheel is between 0.5 and 3mm, closer is better.
10. If adjustment is required, remove the sensor bolt and increase or decrease the spacing by adding or removing a spacer washer. Re-install sensor bolt.
11. Use a cable tie to re-secure the sensor cable
12. Check and ensure that the sensor cable does not interfere with the main drive belt
13. Test before re-attaching the access panel





## STEP 6: Replacing the Monitor

1. Disconnect the connectors at the rear of the monitor
2. Remove the securing nut and bolt from the monitor support stalk
3. Replace with new monitor
4. Re-install securing nut and bolt
5. Re-connect both connectors

