

How to Eliminate Track Lap Timing Issues

From time to time you may experience extra laps or false laps triggered during a race when using the Race Coordinator race management system with an Arduino track interface. If this is the case then following the steps in this guide may help resolve the issue.

Unfortunately there isn't one quick miracle solution; in fact the process requires a methodical process of upgrades and checks. Please note that NOT all steps may be required to fix your specific problem.

Process	Required / Optional
<p>Step 1: Install a version of Race Coordinator which includes the 'Debounce' setting for the Arduino track interface and set the 'Debounce' value. Race Coordinator version 1.9.0.0 or newer includes the 'Debounce' setting.</p> <p>Refer to 'How to set the Debounce value in Race Coordinator' on the Oz Scale Racers support page: http://www.ozscalercracers.com/rc-support.htm</p>	Required
<p>Step 2: Unfortunately installing the current version of Race Coordinator is not enough; therefore you now need to upload the Lap Counter sketch to your Arduino track interface separately.</p> <p>Refer to 'How to upload lapCounter Sketch to an Arduino track interface' on the Oz Scale Racers support page: http://www.ozscalercracers.com/rc-support.htm</p>	Required
<p>Step 3: A faulty sensor usually stops working entirely however a faulty Gantry sensor light may result in all sorts of problems. For example, a drop in voltage to your sensor lights and/or a faulty globe/LED can cause intermittent flickering and in turn trigger false laps.</p> <p>So have a quick check your start/finish lap sensors and sensor lights to make sure all is ok.</p>	Required
<p>Step 4: Install track noise suppression.</p> <p>Hopefully performing the steps above managed to resolve the situation, however if the situation continues then installing Noise Suppression Ferrite Cores, Capacitors and separating power cables from lap sensor cables is highly recommended.</p> <p>Refer to the 'How to fix false laps by installing track Noise Suppression' on the Oz Scale Racers support page: http://www.ozscalercracers.com/rc-support.htm</p>	Optional but recommended
<p>Step 5: In some cases, depending on what model of Difalco hand controller members are using, you may need to add hand controller noise suppression to the offending controllers. Refer to 'How to install diodes on Difalco controllers' on the Oz Scale Racers support page: http://www.ozscalercracers.com/rc-support.htm</p>	Optional