How to Fix False Laps by Installing Noise Suppression
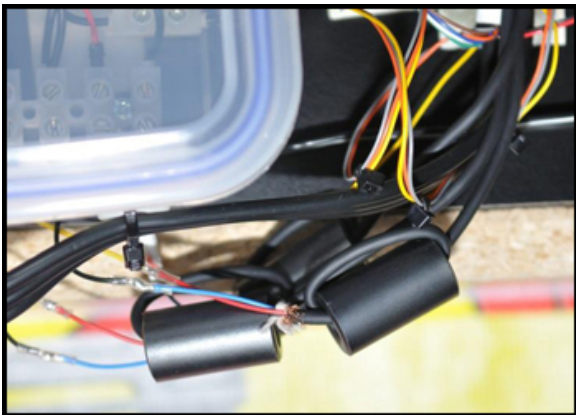
Step 1:

Find where the Lap Sensor cable connects to the Arduino and fit a Ferrite Core which can be purchased from Jaycar.

Part: Ferrite Core: LF1260 – (Pk6)
Price: $7.50
URL: Click here to view item on the Jaycar website
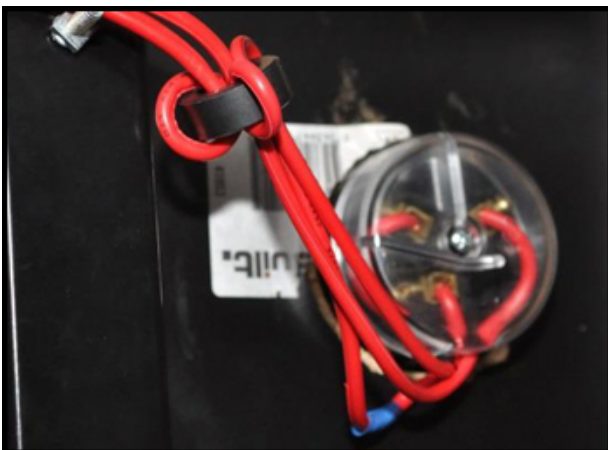

Step 2:

Find where the power cables connect at the driver's station and fit a Ferrite Core which can be purchased from Jaycar.

Part: Ferrite Core: LO1234 - (Pk4)
Price: $4.95
URL: Click here to view item on the Jaycar website

P.T.O

Additional Options:

Capacitors

For extra noise suppression you can install a C104 capacitor across the rails for each lane which can be purchased from Jaycar.

Part: C104 Capacitor: RZ6620
URL: Click here to view item on the Jaycar website

Cabling:

Ideally the 'Lap Count Sensor cabling' needs to be run as far away from any other cables as is possible and use a separate cable for each Lap Sensor, using high quality Audio cable as it has good shielding.

Options from Jaycar include:

1/ Single Core OFC Screened Audio Cable **Part:** WB1508 **Price:** $2.70 - Per Metre **URL:** Click here to view item on the Jaycar website	
2/ FIG 8 - OFC Shielded Audio Cable **Part:** WB1506 **Price:** $4.50 - Per Metre **URL:** Click here to view item on the Jaycar website	