INSTRUCTIONS - PROFESSOR MOTOR 6-LANE AC2Car LAP COUNTER SYSTEM (PMTR6857)

1st Step – If not purchasing a preconfigured computer – load and register the PC Lapcounter Windows Software with the computer to be used prior to wiring the track and installing the system – the computer must be internet connected

Track wiring directions for positive polarity controllers :
#1 Wire to One A/C Output of Transformer used
#2 Wire to Other A/C Output of Transformer used
#2 / 3 / 4 Wire to right side rails of Lane #1, Lane #2 & Lane #3 respectively
#5 Wire to the power feed to the controller for lanes #1A & #1B
#6 Not Used
#7 Wire to the power feed to the controller for lanes #2A & #2B
#8 Not Used
#9 Wire to the power feed to the controller for lanes #3A & #3B
#10 Wire to the RIGHT SIDE of the dead strip for Lane #1A
#11 Wire to the LEFT SIDE of the dead strip for Lane #1B
#12 Wire to the RIGHT SIDE of the dead strip for Lane #2A
#13 Wire to the LEFT SIDE of the dead strip for Lane #2B
#14 Wire to the RIGHT SIDE of the dead strip for Lane #3A
#15 Wire to the LEFT SIDE of the dead strip for Lane #3B
#16 Wire to the LEFT SIDE of the dead strip for Lane #1A & the RIGHT SIDE of the dead strip for lane # 1B
#16 Wire to the LEFT SIDE of the dead strip for Lane #2A & the RIGHT SIDE of the dead strip for lane # 2B
#16 Wire to the LEFT SIDE of the dead strip for Lane #3A & the RIGHT SIDE of the dead strip for lane # 3B

Other wiring (not connected to wiring center) :
12 Volt 1 Amp Wall Wart type power supply plugs into 115v A/C Outlet and into receptacle on red board
USB connector plugs into Phidget board on red board and into USB port on computer
Wire black (track) controller post for lane #1 to left side braid/rail of lane #1
Wire black (track) controller post for lane #2 to left side braid/rail of lane #2
Wire black (track) controller post for lane #3 to left side braid/rail of lane #3
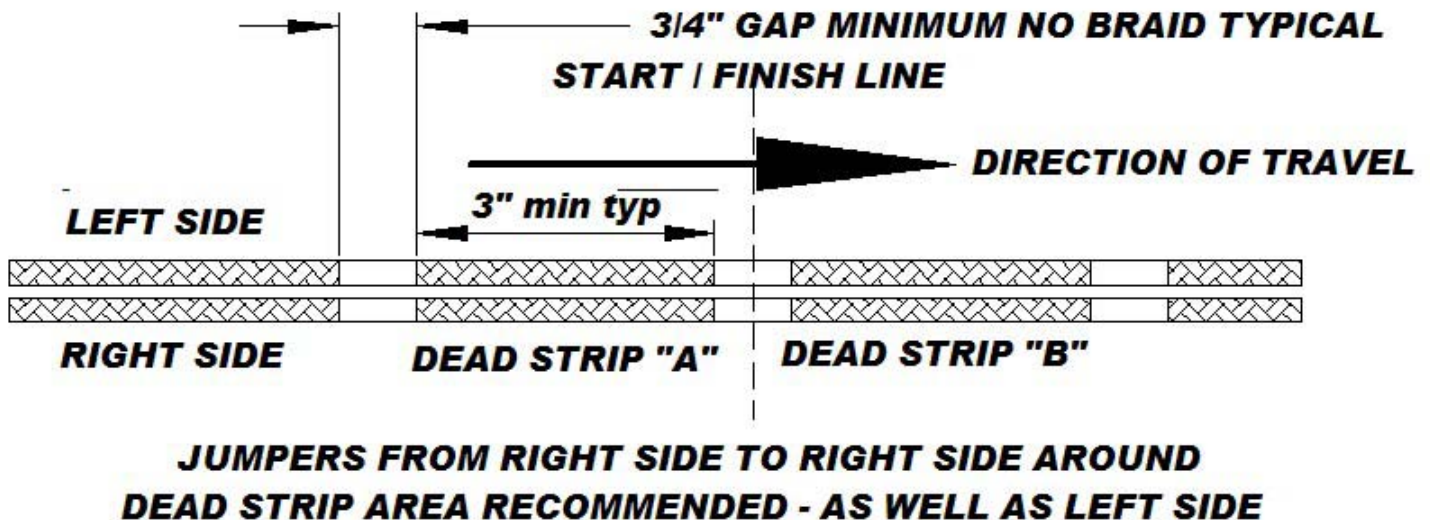
This lap counter system includes a "wiring center" to provide protection against short circuit and overload conditions that may be encountered due to misconnected controllers, track wiring issues or any slot car related issue that might cause excessive current draw. The self-resetting circuit breakers used will restore power automatically without any need for a manual reset or fuse replacement after the electrical issue is resolved. Ring type wire terminals are included in this kit (not shown in illustration). We recommend that all wire to wire terminal connections are soldered for the best reliability using electrical type rosin core solder (do not use acid core solder or acid flux). 14 to 16 gage wire is recommended for all connections.

This Lapcounter system uses an electronic USB connected "Phidget" board. This board allows the computer software to count laps and record times as cars pass through the dead strips and also allows the software to turn the track on and off by energizing a relay mounted into the system so that proper races can be run.

Mounting the lap counter board – mounting screws and "standoffs" are provided to mount the board under the track upside down after the system is all wired and tested, but CAUTION !! DO NOT USE A POWER DRIVER to drive the screws for mounting as this will likely damage the red plastic board used.

Features of the PC Lap Counter software include custom sounds and many other sophisticated capabilities. Watch for possible upgrades to your Lapcounter system to be released by Professor Motor in the future to take advantage of some of these more sophisticated features.

Web site for PC Lap Counter system information if interested is : www.pclapcounter.be

At this point you should be good to go. If any technical questions please feel free to contact Professor Motor for assistance … we will not let you fail !

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