

How to install your *FAST TRACK P2XL* single digit sequence of finish display timer (with optional remote start switch)

Enclosed you will find the Fast Track finish line and AC adapter (and any optional equipment ordered). The Fast Track finish line contains all the electronics, sensors and displays for the Fast Track system. To install the Fast Track finish line to your track, mark the finish line on your track with a pencil. Now mark the midpoint of each lane where it crosses the finish line. This should be the same spacing as the sensors in the bottom rail of your Fast Track timer and was manufactured according to the measurements provided on the order form. If the spacing is not the same call me at (859)384-3571. If the spacing looks correct then drill a hole in the center of each lane with a 3/16 drill bit. Measure the distance from the mounting screws on the Fast Track timer to the closest sensor. Mark the spots between lanes on your track where the mounting screws go and drill them with a 3/16 drill bit. These mounting holes should be countersunk with a 1/4 inch bit so that the heads of the mounting screws are flush with the surface of the track. Once these holes are drilled you are ready to mount the Fast Track finish line to your track. Remove the screw in the bottom corner of the finish line opposite the power jack. With this screw removed the finish line can now hinge open. (If you remove the wrong screw it can't be opened due to the wires running to the sensors.) Remove and save the 2 mounting screws. Now with the Fast Track finish line open, run the bottom rail under the track. Close the finish line and replace the bolt. Check for proper alignment of all of the holes in the track. If a hole in the track does not match that of the sensors in the rail or the mounting holes you will have to ream out the holes in the track that do not match. Once you have good hole alignment, make sure the sensors are located at least 1/4" below the surface of the track. (If the track is too thin add a board between the bottom of the track and the timer sensors to achieve the proper thickness.) Now insert the two mounting screws in the countersunk holes through the top of the track and into the threaded holes in the bottom rail. Connect the start switch to your track so that the car release lever on your track closes the start switch as the cars wait at the starting line (see illustration on reverse side). When the cars are released the switch should open. Run the start switch cable under the track all the way back to the finish line. Plug the start switch connector into the small socket in the side post of the timer. Once the finish line is secured to the track you can connect the AC adapter (or optional battery pack if ordered) to the large socket in the side post. Plug it in and you are ready to run.

How to operate the *FAST TRACK* timer

Close the starting gate so that the start switch is closed. All displays should be zeros. If a display is showing a seven, then something is blocking its sensor. If one or more displays show a seven, then skip this section and read "If you have problems" below. If all zeros are displayed, then you are ready to race. Put the cars in their starting position. Press and release the reset switch. Release the starting gate. Watch as the cars race toward the finish line. When the first car crosses the finish line the display over that lane will display a "1". As the second car crosses, its display will show a "2" and so on for each lane of your track. If two cars cross the finish line together within less than 0.0002 of a second, a tie will be displayed. Ties are very rare.

If you have problems

1) If a display shows a seven with the reset button depressed then the infrared sensor in the bottom rail is not receiving the signal from the infrared transmitter in the top of the finish line banner. Check the holes in the track. Make sure nothing is blocking them. Can you see the infrared sensors through the holes in the track? Check the infrared transmitters in the top of the finish line banner. They should be positioned directly over the sensors, if not, they can be gently bent to give a more perfect alignment with the sensors below. You can also check the infrared transmitters with Radio Shack's infrared detector Cat. No. 276-099. (costs about \$8.00). This detector works only at a very close range, 1-2 inches.

2) If nothing is working. Then unplug the power adapter from the side post of the finish line banner. Now reconnect the power adapter. Make sure the outlet is functional and plug it in. Put your hands over all the holes in the finish line. If the display lights now work then there may be a problem in the reset button.

3) If you still have a problem give me a call, Stuart Ferguson, at (859)384-3571 or (859)384-1547. We offer a full 2 year warranty. If it hasn't been abused we'll fix or replace it free, less shipping, or refund the purchase price if we are unable to meet your satisfaction.

Remote Start Switch Diagram

