

Micro Wizard Instructions

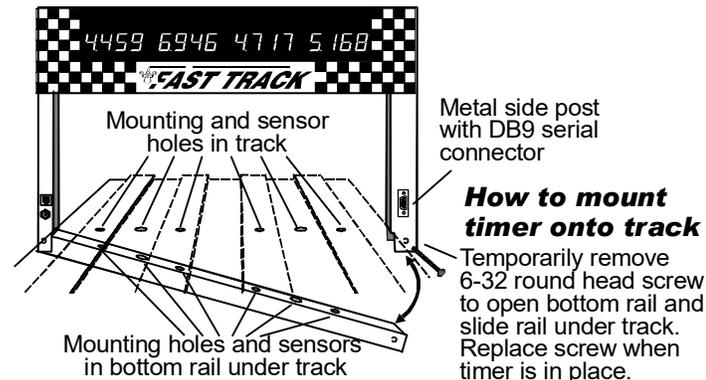
How to install **FAST TRACK K3** 4-digit actual times and 1-digit sequence of finish display timer with Computer Serial Interface

Enclosed you will find the Fast Track finish line, AC adapter and remote start switch with cable (plus any optional equipment ordered). If you have purchased the "Computer Serial Interface option (PS)" a computer interface cable and USB converter will also be included. The Fast Track finish line contains all the electronics, sensors and displays for the race system.

(If you ordered the Quick Mount or have a Best Track, disregard the following section and refer to the Mounting Instruction sheet for installing your timer).

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 1-888-693-3729 (office) or (859)380-3882 (cell).

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 mounting screw.

With the Fast Track finish line open, run the bottom rail under the track. Close the finish line and replace the screw. 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, 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.

Connecting the start switch and AC adapter

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 in this packet). 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 lever is pushed in. All displays should be zeros. If a display is showing a dash, then something is blocking it's sensor. If one or more displays show a dash, then skip this section and read "If you have problems" below.

NOTE: This timer has the Computer Serial Interface which only sends the race times to your computer. If you are interested in **Race Management Software** see our website for information.

Micro Wizard Instructions

Once the start switch opens the timer will begin timing. A few seconds after the last lane finishes the order of finish will display if you have purchased the sequence of finish option. The timer will continue to flash times and order of finish until it is reset.

Any car that takes more than 9 seconds to cross the finish line will not be scored. Even the slowest cars make it across the finish line in less than 5 seconds.

If you have problems

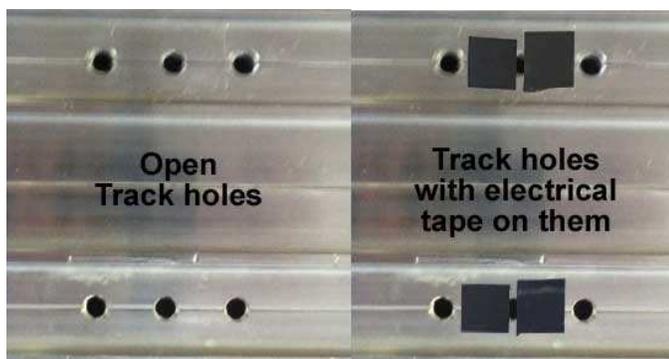
- 1) Check the holes in the track. Can you see the infrared sensors through the holes in the track? If not you may need to ream out the holes. Check the infrared transmitters above in the finish line banner. They should be located directly above the sensors. If needed, they can be gently bent to give a more perfect alignment.
- 2) If nothing is working, 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 remote reset switch.
- 3) If you still have a problem, give me a call, Stuart Ferguson, at 1-888-693-3729 (office) or (859)380-3882 (cell). We offer a full 2 year warranty. If it hasn't been abused we'll fix or replace it free, including ground shipping, or refund the purchase price if we are unable to meet your satisfaction.

If you are trying to use the timer in direct sunlight

You may have trouble running our timer in direct sunlight, although it may run in shade. Here are several ways to improve the performance in sunlight:

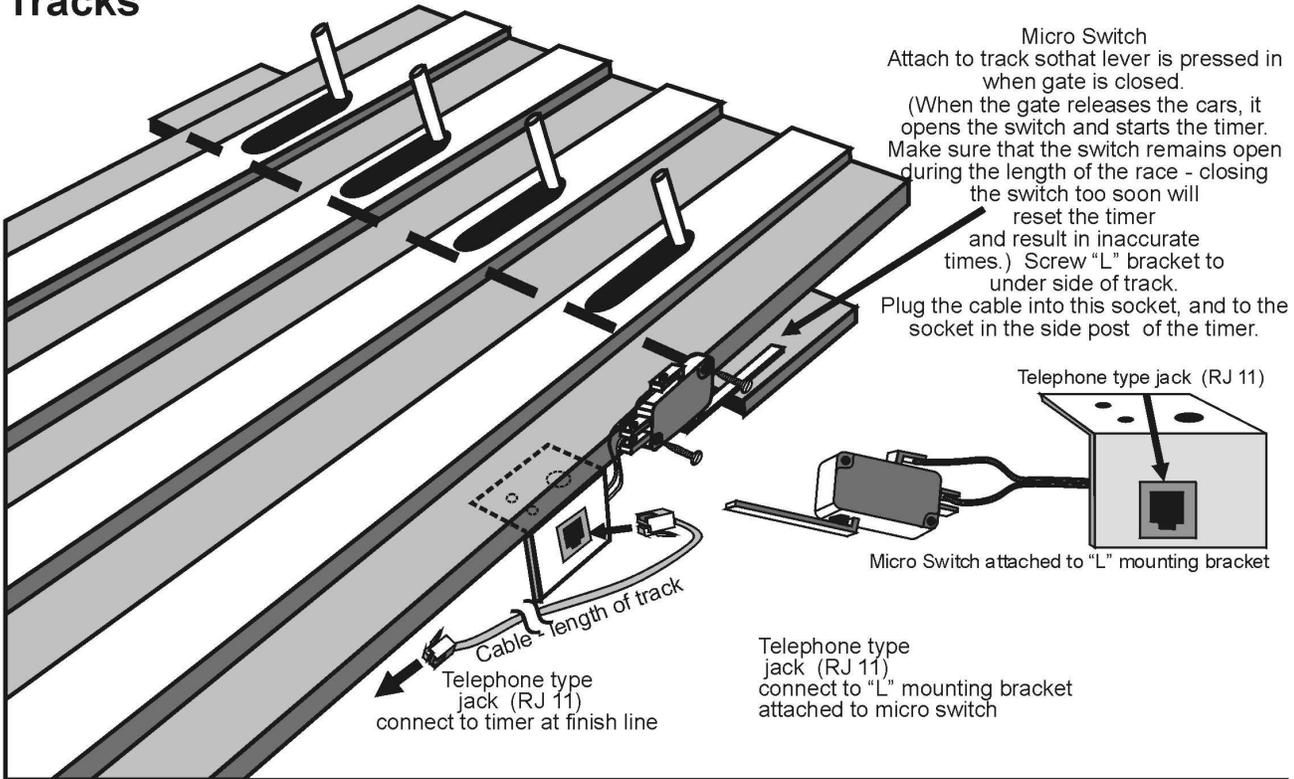
- Make sure no light is getting to the back of the sensors. Cover the back of the sensors with black tape.
- Use a small hole in the track. 1/8 inch hole should work fine.
- Make the interior of the hole flat black, or other dark color, so indirect light is not reflected down to the sensor.
- Make the sensor hole deep. It should be at least 1/2 inch deep for best results.
- Put black electrical tape on either side of the hole in the track below the infrared transmitters to make a slot that will let in less light. See photo below.

We have used J-B Weld, or J-B Kwik epoxy to fix holes that were too big. You can fill the big hole with the epoxy, then redrill them to a smaller size. The new hole is a flat gray color that works well.

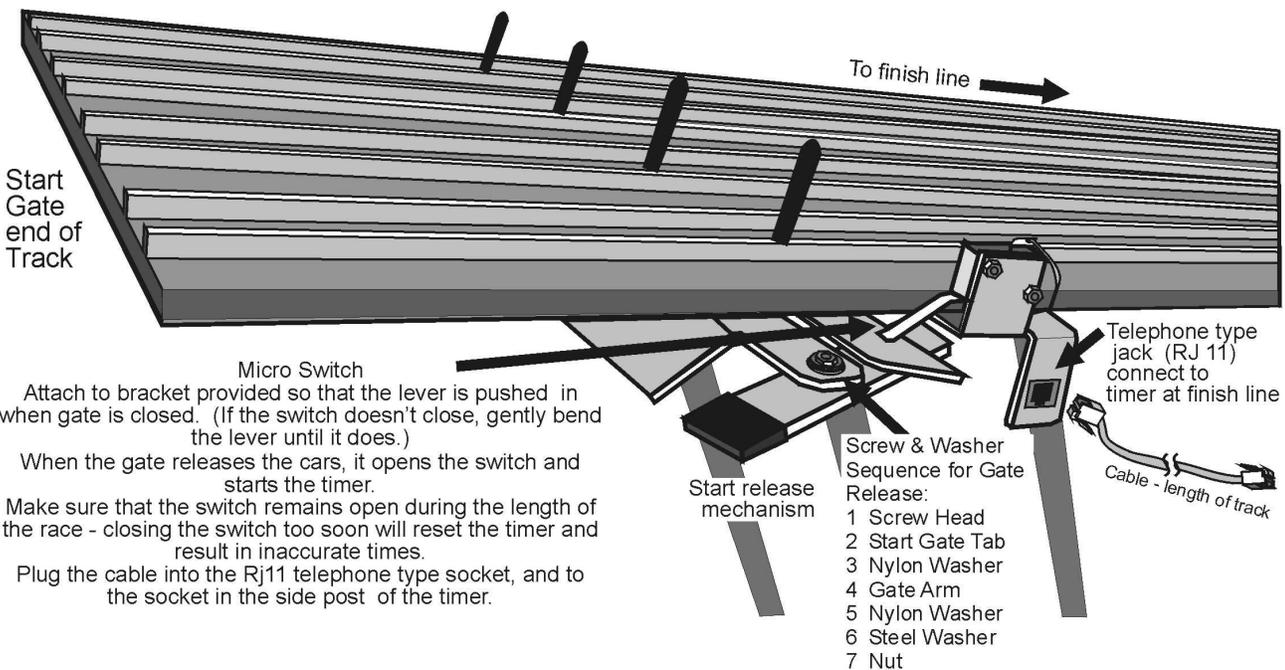


Micro Wizard Instructions

Remote Start Switch Diagram Most Wooden Tracks



Micro Wizard & Piantedosi Aluminum Tracks



Micro Wizard Instructions

Commands that can be given through the serial port:

- M(A-G) Mask unused lanes**
MA would mask out lane A. **MB** would mask out lane B and so on. **MG** would enable all lanes by clearing the mask.
- RL (0-6*) Reverse lane if 0 is set to normal** * Number of Lanes of your track
This command reverses the data stream sent from our timer to your computer or remote time display – ie- Lane ABC becomes CBA on your computer.
- RE Reset Eliminator mode**
If the timer is in the Eliminator mode, it will reset back to the standard mode of racing.
- RF Return features in binary**
This command will return 8 binary bits like 0011 0111. A 1 means the option is enabled: 1111 1111 all feature bits set. 0000 0000 all feature bits clear
- RS Return serial number**
- RA Reset lane – Force results**
Force the timer to end the race and send the results of all lanes that have finished. This is great feature for when a car crashes, burns and falls off the track.
- LR Reset laser gate**
When the race is over the computer can reset the laser gate. This can work like the RA command, but does nothing if the customer does not have a Laser Gate.
- LE Set timer for Eliminator mode**
Eliminator will score only a first and second place for lane pairs. Makes 3 races on a 6 lane track or 2 races on a 4 lane track.
- LF Load feature**
This feature is enabled only with a password – guessing a serial number will give you an error and may disable features in your timer.
- LX (A-O) Changes the cycle time of the SOF option**
In the command line, each of the letters of the alphabet A through O will add 2 seconds to the display cycle time. So to change the cycle time to 6 seconds enter: LXC, and to change the cycle time to 25 seconds enter: LXO. To disable SOF enter LXP this will disable the cycle time, and only display times without the sequence of finish.
- N0 Old format**
Converts the race time data to the old timer format:
A=3.001! B=3.002 C=3.003 D=3.004 E=3.005 F=3.006 <LF> <CR>
- N1 New format**
Converts the race time data to the new timer format:
A=3.001! B=3.002” C=3.003# D=3.004\$ E=3.005% F=3.006& <CR> <LF>
- N2 5 digit time format start switch closed and open status**
Only on 2012 and newer timers.

Micro Wizard Instructions

- RM Read mode**
Shows the current modes set for the timer:
6 000011 0 0 0
Number of lanes used in reverse order mode - 6
Lanes E and F are masked - 000011
Lanes are not reversed - 0
Not in eliminator mode - 0
Old data format - 0
- RG Returns start switch condition**
The timer will return a "1" if the start switch is closed and "0" if the switch is open.
- LO Turns off the laser bit or gate release bit**
- LN Turns on the laser bit and causes the motor gate to open**
Only for the automatic gate release.
- LG Pulse laser bit for solenoid style gate release**
- RV Return version of firmware and serial number**
- RX Simulate the closing of the start switch for half a second**
This ends the race and sends any results to the computer. You must have the "Force Print" option.
- LX(0-9) (K2 & K1 Models A-O) Change time or disable automatic reset**
In the command line, each number after the x will multiply 2 seconds to the reset time.
So, to change the automatic reset time to 6 seconds enter **LX3**, and to change the automatic reset time to 18 seconds enter **LX9**.
To disable the automatic reset enter **LX0**.
- LX K3 model time interval between alternating position then times on the finish line display**
In the command line, each number after the x will multiply 2 seconds to the alternate time.
So, to set the rate of change to 6 seconds enter **LX3** and to set the rate of change to 18 seconds enter **LX9**.
To display only the time without displaying position enter **LX0**.

Race Data Finish Order Punctuation:

21h	-	!	-	First Place
22h	-	"	-	Second Place
23h	-	#	-	3rd
24h	-	\$	-	4 th
25h	-	%	-	5 th

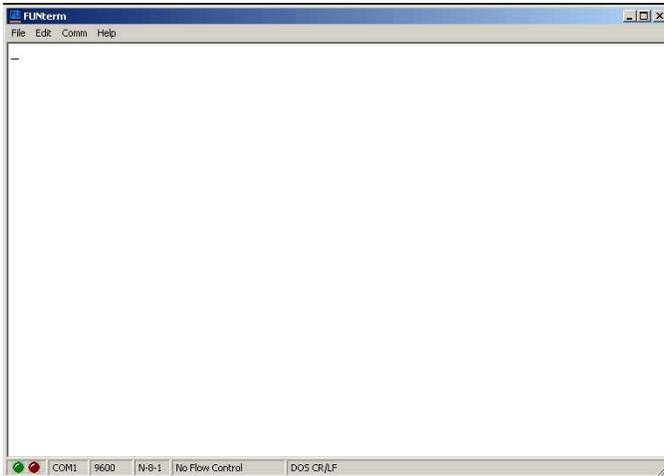
Micro Wizard Instructions

To change Options or view times from your race in FUNterm:

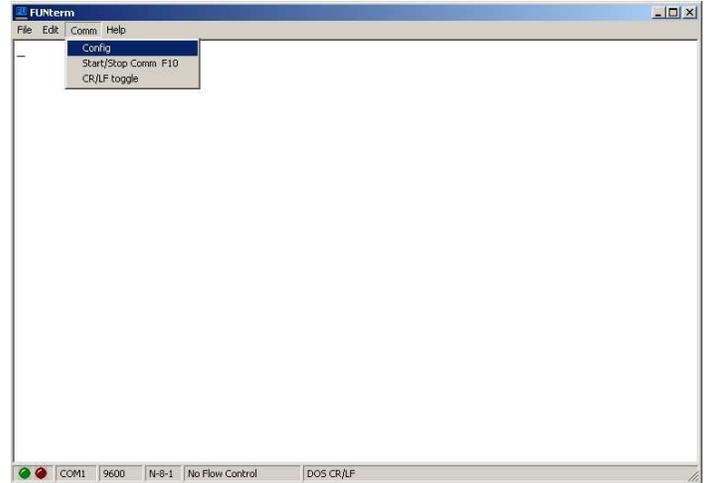
- Plug your timer into a power source
- Using the computer serial cable and/or the USB converter, plug your timer into the com port or USB port on your computer

Go to Microwizard.com and under “downloads” on the menu, download the program “FUNterm.exe”

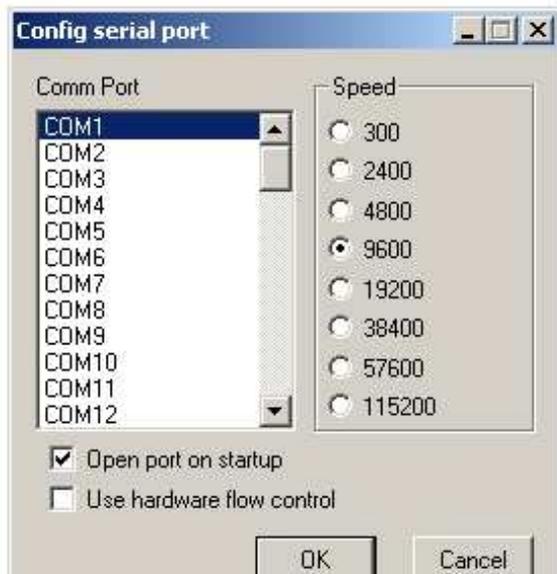
- This is a stand alone program that doesn't require an install
- Double click on the saved FUNterm.exe file



1. This window will come up



2. Put down Comm
- Click on Config



3. A New Window will come up:
- Choose the correct comport that your timer is connected to. Don't change anything else because the timer uses the default settings.
- click okay

4. You should now be able to type commands to the timer through the computer, or, once all the cars have raced and the lanes have finished, the times should automatically display.

To enter commands - type RV and hit enter. The version number of the timer should display on your computer screen. If it does, you are ready to enter the option commands of your choice.

If you don't see the version number, you probably have a comport conflict. See “Frequently Asked Questions” on our web site for a list of ways to trouble shoot the problem.