

## Micro Wizard Instructions

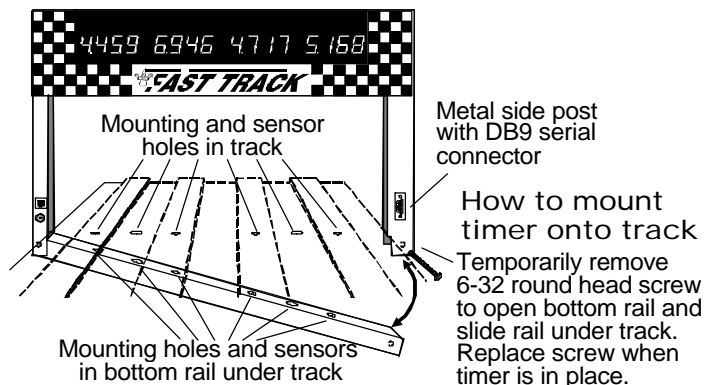
### How to install **FAST TRACK K3** 4-digit actual times and 1-digit sequence of finish display timer with remote start switch

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 CD with the Fast Track utility program and a computer interface cable 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.**

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**NOTE:** In order to run Race Management Software with this timer, you must have purchased the Computer Serial Interface (PS) option.

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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), (859)380-3882 (cell) or (859) 384-1547(home). 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

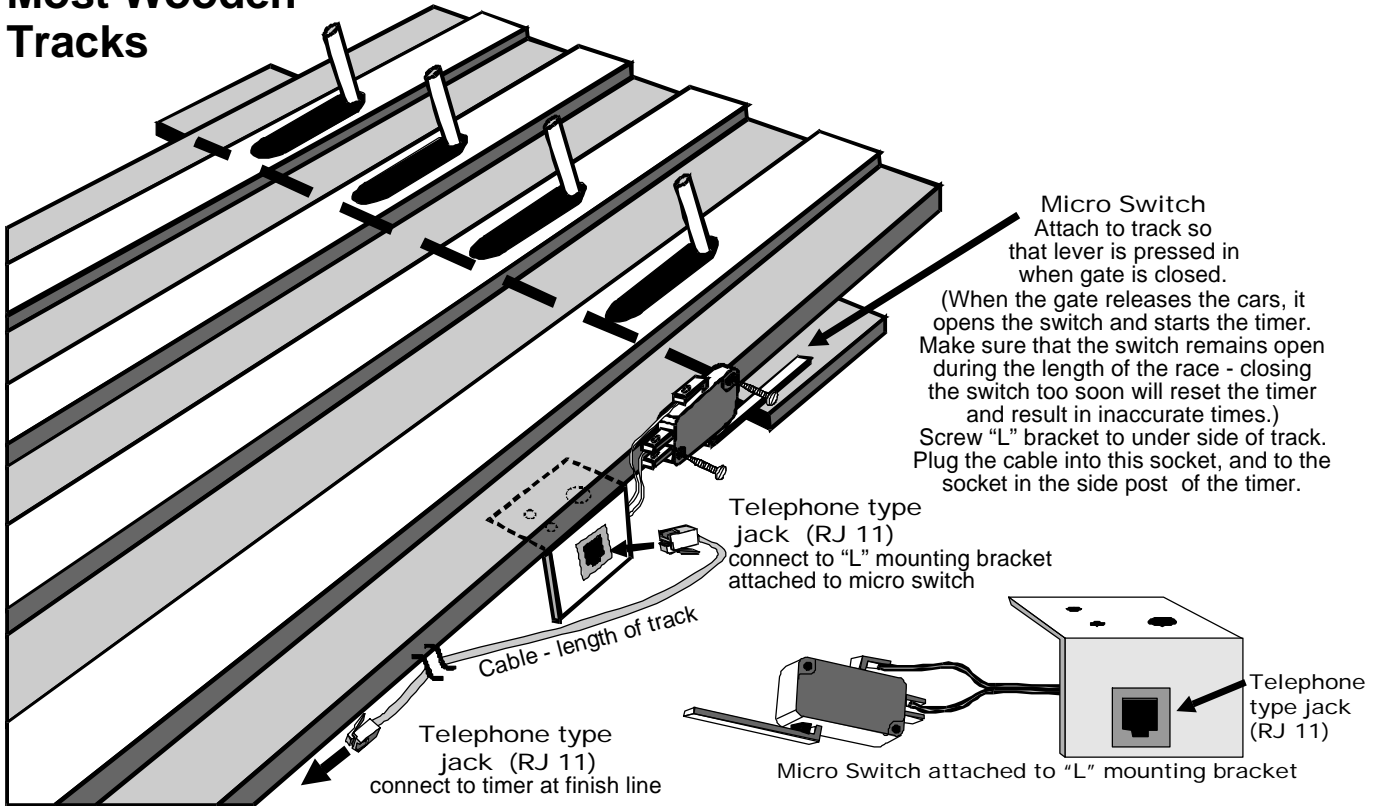
You may have trouble running our timer in sunlight, although it may work in shade. Here are several ways to improve the performance in sunlight:

- 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.

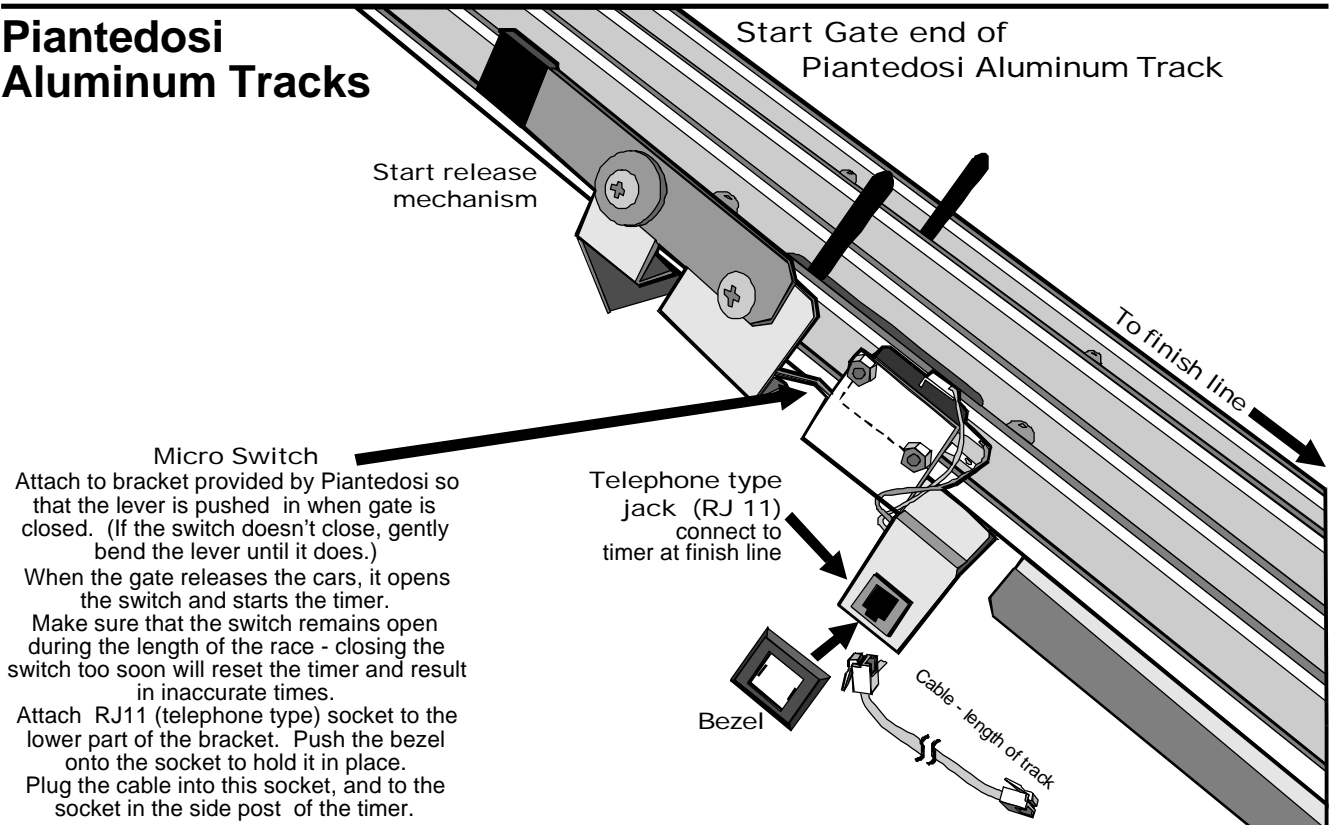
We have used J-B Weld, or J-B Kwik epoxy to fix holes that were too big. You can fill the big hole with the epoxy, then redrill them to a smaller size. The new hole is a flat gray color that works well.

# Micro Wizard Instructions

## Remote Start Switch Diagram Most Wooden Tracks



## Piantedosi Aluminum Tracks



# Micro Wizard Instructions

## Computer Data Option

**NOTE:** In order to run Race Management Software with this timer, it must have the Computer Serial Interface (PS) option – (“S” in the features box).

### Software Options that can be purchased from Micro Wizard (visible in the “Features” box)

- S** - Serial Race Data      Sends the actual time race data from the Micro Wizard timer to the computer. This is the raw data for any race management software.
- M** - Mask Lanes      This command will prevent data from being sent from unused lanes – useful for eliminator races or trials.
- R** - Reverse Lanes      This command reverses the data stream sent from our timer. Some race management software will require the data sent from the timer in reverse lane order. This can also be used with our remote display to make a double-faced timer at the end of your track.
- E** - Eliminator      Sets timer to 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.
- F** - Force Print      Forces the timer to end the race and send the results of all lanes that have finished. This is a great feature for when a car crashes, burns and falls off the track.
- L** - Reset Laser      When the race is over, you can actually reset the laser gate from your computer! Does nothing if you do not have a laser gate.
- C** - Count Down Clock      Enter the minutes from which the timer will count down. Click “set countdown time” button and watch it go! Nice feature to show the intermission length between race events.
- P** - Position (Sequence of finish)      Timer will alternate between actual times and sequence of finish display.

The screenshot shows the 'Fast Track Setup Utility' window with the following callout boxes:

- Choose the number of lanes your timer has.** (Points to the 'Number of Lanes' radio buttons)
- Choose the lanes you want your timer to utilize. Option M above. (This will change if you have checked eliminator or reverse lane order)** (Points to the 'Lanes In Use' checkboxes)
- Option R Above** (Points to the 'Reverse' radio button in 'Lane Order')
- Option E Above** (Points to the 'Eliminator' radio button in 'Mode')
- Option L Above** (Points to the 'Reset Laser' button)
- This is your timer's serial number. You will need this to upgrade any options** (Points to the empty text field for the serial number)
- Choose the com port for your timer's input.** (Points to the 'Comm Port' radio buttons)
- Redraws the screen** (Points to the 'Refresh' button)
- This converts the race data to the old timer format. (to be used with older race manager software programs)** (Points to the 'Old (only 1st place marked)' radio button in 'Data Format')
- Option P Above This allows you to set the time between actual time & position displays** (Points to the 'Auto Reset Time (seconds)' radio buttons)
- This feature is enabled only with a password. The letters represent the options you have. ("O" means you do not have that option).** (Points to the 'Set Feature' button)
- Option C Above** (Points to the 'Set Countdown Timer' button)
- TO UPGRADE OPTIONS: Call Micro Wizard for a code and type it in this text field** (Points to the text field for the upgrade code)

## Micro Wizard Instructions

### Commands that can be given through the serial port using hyper terminal and the additional serial cable (some of these commands require purchased computer options)

#### Commands:

- 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** (0-6 represent the 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 (see next page for definition):  
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 tracks 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) Change Length of Time between sequence of finish and actual time displays**  
Timer is set to approximately 5 seconds between displays from the factory. To change, each of the letters of the alphabet A through O will add 2 seconds to the length of time between displays. So to have 6 seconds between displays enter: LXC, and to have 25 seconds between displays enter: LXO  
To disable the sequence of finish and display only the actual times enter: LXP
- N0\* Old Format**  
Converts the race time data to the old timer format:  
A=3.00! 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=3.00! B=3.002" C=3.003# D=3.004\$ E=3.005% F=3.006& <CR> <LF>
- 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
- PCXX\* Count Down Timer** XX=00-99  
Enter the minutes you want the timer to count down from.

\* Purchased options are required to use these commands.

#### Race Data Finish Order Punctuation:

21h	-	!	-	First Place
22h	-	"	-	Second Place
23h	-	#	-	3rd
24h	-	\$	-	4th
25h	-	%	-	5th
26h	-	&	-	6 <sup>th</sup>

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To change Options or view times on your computer in Hyperterminal (You can view times only if you have purchased the computer serial interface - PS - option):

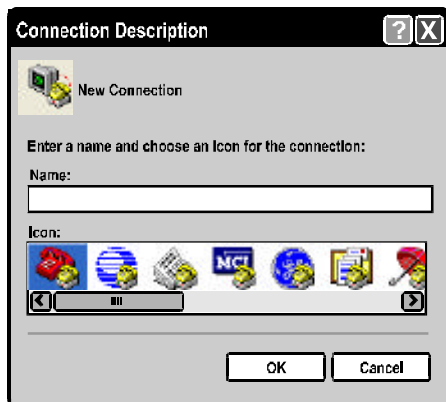
- Plug your timer into a power source
- Using the computer serial cable, plug your timer into the com port on your computer

On your Computer desktop – go to **Programs**

- choose **accessories**
- choose **communications**
- choose **hyperterminal** (the one with the phone icon)

1. This window will come up:

- put a name on it
- click **OK**



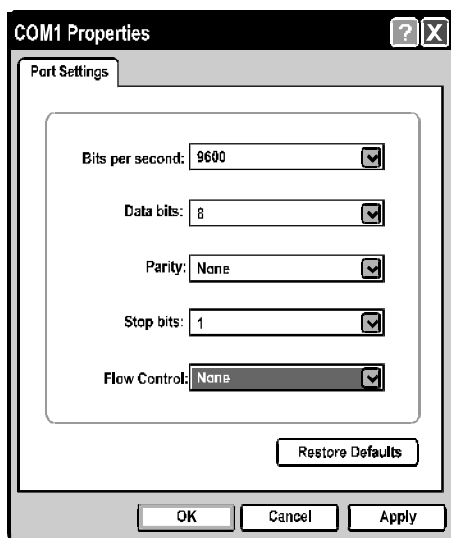
2. A New Window will come up:

- Click the down arrow on the “Connect using” box and choose the comport that is connected to your timer
- click okay



3. Another New Window will come up:

- Choose the options below
- click okay



4. You should now be able to type commands to the timer through the computer.

Type RV.

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. See the “Commands using Hyperterminal” sheet.

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.