

# ***Eliminator Next Gen***

## **Dual Lane Test Track Instructions**

**WARNING: Test Track will NOT work if the Eliminator Next Gen is battery powered. Please use the 12V DC power adaptor supplied with the system.**

### **Test Track Setup:**

- 1.) Plug the 12V DC power supply into the gray track box. Plug the 25-pin track cable from the track box into the left side of the Eliminator Next Gen. Plug the stereo plug from the track box into the left hand switch jack of the Eliminator Next Gen. The Eliminator Next Gen should power on.
- 2.) Verify that the Eliminator Next Gen is a Test Track Version. The version number is in the top left of the Main Menu screen and should end in a "T"



- 3.) Press the Left/Right Arrow buttons on the display until the "Test Track" button is displayed. Touch the "Test Track" button to enter Test Track Mode.
- 4.) Each time Test Track is entered, the Eliminator Next Gen will ask if you want to change the Test Track setup. Below are the setup options:

- **Last Setup:** Touch if no changes are necessary to the Test Track setup (skip Step 5)
- **Single Lane:** Touch to configure the Eliminator Next Gen as a Single Lane Test Track  
Not covered in these instructions
- **Dual Lane:** Touch to configure the Eliminator Next Gen as a Dual Lane Test Track
- **Main Menu:** Touch to exit Test Track Mode

**Note:** *The Eliminator Next Gen is setup from the factory to be compatible with the Test Track type purchased. Please select "Last Setup" to proceed without changing the factory setup!*

- 5.) After touching "Dual Lane," the Next Gen gives you the option to enable/disable Test Track sensors. If you enable a sensor that is not present on the Test Track, you will not be able to run a race. Below are guidelines for configuring a Dual Lane Test Track:

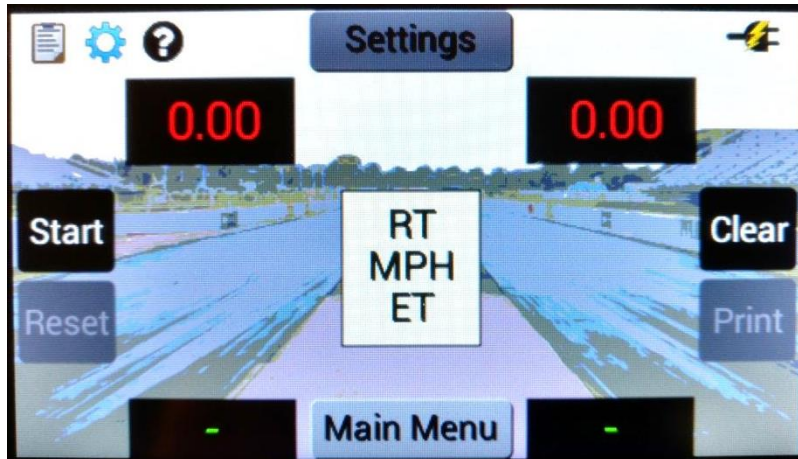
- Stage beam is mandatory if Guard (Start) beam is disabled
- Pre-Stage is not available if Stage beam is disabled
- MPH beam is not available when Guard beam is enabled
- MPH beam is not available when Finish is disabled
- When MPH is enabled, tap "MPH" to switch to "KPH"
  - MPH/KPH trap size is configurable but defaults to 66ft/20m

**Note:** *Setting incorrect or too short trap distance will lead to inaccurate MPH/KPH*

A time slip printer and external display (sign) can be enabled/disabled from the setup screen. Touch "Save" once finished configuring the Test Track.

## Dual Lane Test Track:

Once the setup steps are complete, the Test Track Main screen displays:



- **Main Menu:** Touch to exit Test Track Mode
- **Sensor List:** Complete list of sensors available in Dual Lane Test Track (displayed in the center of the screen). Enabled sensors are displayed in black, disabled sensors are displayed in gray, and sensors that are enabled but not detected are displayed in red (red lights on the tree will flash and races cannot be run when this occurs)
- **Car Number:** Black box with green text at the bottom of the screen. Reads “-“ when no car number is entered. Touch to enter a car number. A car number cannot be entered when “Auto Number” is enabled.
- **Dial-In Box:** Black box with red text. Touch to enter handicaps in each lane.  
*Note: The Eliminator Next Gen Test Track System is a heads up only system. Even with handicaps, the first vehicle to the finish line wins.*
- **Start Button:** When Auto Start is off, this button can be pressed to start a race  
When Auto Start is on, this button can be pressed to enable/disable Auto Start
  - **Auto Start On:** Start button is gray if a sensor is not detected, start button is black if Auto Start is disabled, and Start button is green if Auto Start is enabled on the Next Gen.
  - **Auto Start Off:** Start button is gray if at least one user is not staged (unless there are no Stage beams present). Start button is black if at least one user is staged.
- **Clear Button:** Press to clear Car Numbers (when Auto Number is off) and Dial-Ins
- **Clipboard Icon:** Race statistics. Touch to view last 10 runs.
- **Gear Icon:** Touch to change printer or LED sign configuration
  - **LED Brightness:** Move slider to change the Eliminator Next Gen LED brightness
  - **Printer:** Touch to turn on/off the time slip printer
  - **LED Sign:** Touch to turn on/off the external display
  - **Sign Type:** Select LED sign communication type
    - For 2” external display, select “Portatree”
    - For 4” external display, select “Betabrite”
  - **Sign Setup:** Select times to display after a run
    - RT – Display left and right lane RT after a run
    - RT & ET – Display left and right lane RT and ET after a run
      - Not an option if finish line is not present
    - MPH & ET – Display left and right lane MPH and ET after a run
      - Not an option if finish line is not present
    - ET – Display left and right lane ET after a run
      - Not an option if finish line is not present
  - **Track Reset:** Touch to return Test Track to defaults

- **Question Icon:** Touch to enable Help Mode. When Help Mode is enabled, the question mark icon will turn green and “Help” will be displayed. In this mode, touch any item on the screen, and an explanation will display.
- **Settings:** Touch the settings button to change Dual Lane Test Track Settings
  - Swipe the screen left and right to move through the settings screens
  - **Tree Type:** Touch to select Full, Pro, or Blocker tree
  - **Tree Speed:** Touch to enter a tree speed from 0.100 to 0.900 (default 0.500 full/0.400 pro)
  - **Top Bulb Lock:** When on, top bulb will light at the same time on each side of the tree when tree type is set to “Full” and “Dial-Ins” are present
  - **Dual Red:** When on, red lights will display on both sides of the tree if both lanes red light  
When off, red light will only show in one lane
  - **Auto Start:** When on, the Next Gen will start a race when:
    - Auto Start is enabled on the Next Gen and on the Track Box AND either,
    - One racer is staged and the Auto Start Time elapses OR
    - Both racers are staged.
    - *Note: If Stage beams are not enabled, Auto Start is not available*
 When off, a race is started when the Start button on the Next Gen or Track Box is pressed
  - **Auto Start Time:** Time for one racer to be staged before the tree sequence automatically starts
  - **Stage On Time:** Time for racer to be in the Stage beam before the system considers him/her staged. Can be set from 0.100 to 2.500 seconds, defaults to 0.900 seconds.
  - **Stage to Start:** Time from when a start signal is received (either Auto or Manual) to when the tree sequence begins. Can be set from 0.100 to 2.500 seconds, defaults to 0.700.
  - **Start Delay:** Random time added to the Stage to Start time before the tree sequence begins. Can be set from 0.100 to 0.900, defaults to 0.300. The Next Gen selects a time from 0 to this value as the random start delay.
  - **Auto Number:** When on, the Car Numbers are automatically filled with sequential numbers  
When off, the race operator can enter Car Numbers
  - **Perfect Tree:** When on, reaction times are displayed using 0.000 to indicate a perfect light  
When off, reaction time are displayed using tree speed to indicate a perfect light
  - **Win Lights:** When on, the Pre-Stage and Stage lights will flash in the winning lane  
When off, the tree will not indicate a winning lane
  - **Auto Reset:** When on, the Next Gen will automatically reset after race completion.  
When off, the Next Gen will wait for the “Reset” button to be pressed.

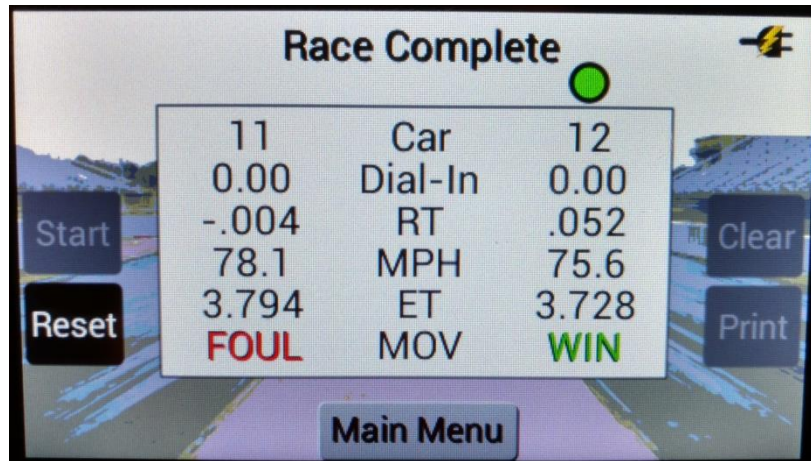
### Running a Race:

- Auto Start On:
  - Enable Auto Start on the Eliminator Next Gen and on the gray Track Box (the Start Button will be green when enabled on the Eliminator Next Gen)
  - Single Vehicle Stages
    - The tree sequence will start after the Auto Start Time elapses
  - Second Vehicle Stages before Auto Start Time elapses
    - The tree sequence will start shortly after the second vehicle stages
- Stage Beam Enabled & Auto Start Off:
  - Stage at least one vehicle
  - Press the “Start Button” on the Eliminator Next Gen OR on the gray Track Box
- Stage Beam Disabled & Auto Start Off:
  - Press the “Start Button” on the Eliminator Next Gen OR on the gray Track Box when ready to start a race

### Race Complete:

On a starting line only track, a race is complete when the stage or guard beams are triggered. On a track with start and finish line, a race is complete when the finish beams are triggered. If a car is not able to trigger the finish beam, the “Abort” button on the gray Track Box should be pressed. There is also a timeout if a car is not sensed at the finish line after 60 seconds. If the

“Abort” button is pressed, the final ET displays as 65.000 seconds. If a timeout occurs, the final ET displays as 64.999 seconds.



The race results are displayed in the center of the Eliminator Next Gen display. A green circle is displayed over the winning lane and “WIN” is displayed under the lane’s results. A margin of victory (MOV) will display if both lanes are green. If there is a red light, the margin of victory will display as “FOUL.”

Touch the “Reset” button to reset the Next Gen for another race. If “Auto Reset” is enabled, the Eliminator Next Gen will automatically reset after 5 to 10 seconds. If a time slip printer is enabled, a time slip will print at the end of the race. A duplicate time slip can be printed by pressing the “Print” button. The “Print” button is only active if a time slip printer is enabled.

#### **Race Statistics:**

The Eliminator Next Gen stores up to the last 10 runs made. They can be displayed by touching the clipboard icon on the Test Track main screen. Touch the “Save” button to save the displayed runs to a statistics file. If saved files are detected, a “Load” icon is displayed in the upper-left corner of the statistics screen. Saved files can be viewed or deleted by pressing the “Load” icon.