

# Mini-Lap

Owner's Manual

## 1 On the track

The Mini-Lap is turned on by pressing **Menu** and **Select**. When the Mini-Lap is turned on, it enters the menu system visible on the left of the screen. While in the menu, the **Left** and **Right** arrows move through the items and **Select** will choose the item.

To begin timing with the Mini-Lap, you first need to choose to enable the left or the right I/R receiver. Move to the correct receiver and press **Select** to enable that I/R.

Once you select the correct I/R receiver you need to begin the timing. Choose **start timer?** in the menu system and press **Select**. This will enable the I/R and begin to look for the transmitter signal.



While in timing mode the enabled I/R will light up as well as **running**. The lap counter will begin and the timer will begin counting after you pass the transmitter the first time. To conserve battery life, press any button after a session to stop timing.

**This package contains:**

- Mini-Lap Receiver
- Manual
- Warranty Card

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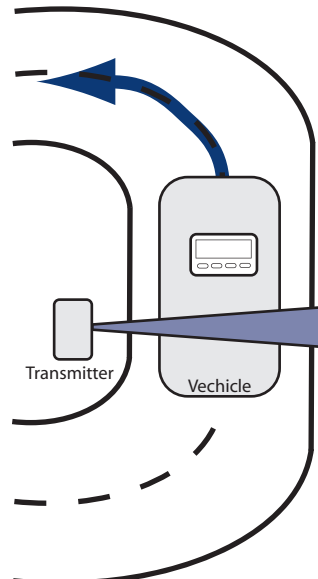
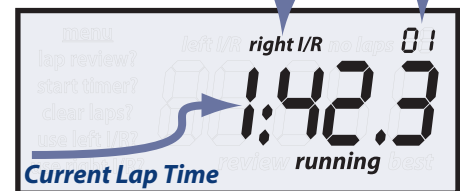
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**Lap counter**

**Enabled I/R receiver**

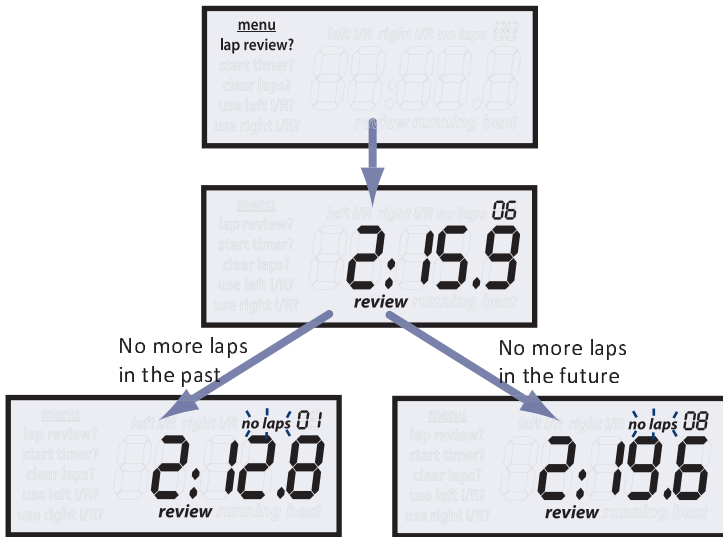


The transmitter (set to mode M1) should be placed about 15 feet from where the vehicles will pass and at the same height as the receiver on the vehicles. This is usually about 3 feet off the ground.

**Motorcycles/dirtbikes:**  
The transmitter should be placed near the beginning of a straight section to ensure that the vehicle is vertical when it passes the signal.

# 2 Lap review

To enter the lap review mode, press **Select** while on the **lap review?** menu item. This will move you to the lap review mode. The first lap that will be displayed is the most recent lap recorded. Pressing **Left** will move back through the laps and session. When you reach the end of the list (in either direction), **no laps** will flash.



As you move left through the lap review section, the lap numbers will decrease down to lap number 1. After this lap, the last lap of the previous session will be displayed. For each session, the best lap time of that session will be indicated with **best**.



When the Mini-Lap's memory is full, laps are removed from the beginning of the memory (oldest lap first). To clear all of the laps from memory, choose **clear laps?** in the menu system, and press **Select**.

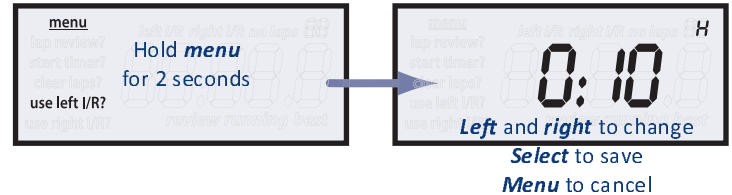
## Receiver Battery

When the Mini-Lap's batter is dead, remove the back cover and replace battery with type CR2032 only. Carefully pry out old battery and replace, making sure the + faces you. Replace the back cover, careful not to over tighten the screws.

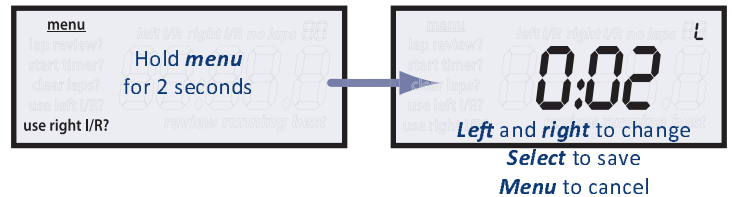
## Mini-Lap Settings

There are two settings that are available in the Mini-Lap, the lap hold time and the minimum lap time. The hold time is how long the display stands still after a trigger to show your last lap time; the default is 0:10. The minimum lap time is a setting that can help with false triggers. The minimum lap time value is how long the I/R receiver will be off after a trigger, ignoring any signal. The default is 0:02, which essentially turns this feature off. If you are having problems with false triggers, change this setting to about 5-10 seconds less than your fastest lap at that track.

### Hold Time



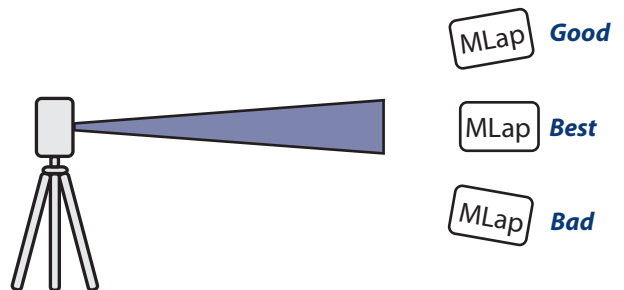
### Minimum Lap Time



## Troubleshooting

### Triggering problems:

The alignment of the of the transmitter and receiver is probably the most important key to success. The transmitter and receiver need to be at approximately the same height. The angle of the receiver should be level with the transmitter, or pointed slightly down.



Also, check the following items:

- Make sure the receiver and transmitter batteries are in good condition.
- Make sure the transmitter is at least 15 feet away and no more than 75 feet from the area where the vehicle crosses the infrared beam.
- Make sure that the transmitter is pointing horizontally across the track, not up or down.
- Make sure you have selected the correct I/R receiver via the menu system so that when the receiver passes the transmitter it is pointing directly at it.
- For motorcycles/dirtbikes, make sure that the transmitter is placed in a section of the track where the bike will be upright when it passes.