



## VORTEX KART SPEED GAUGE V3 OWNERS INSTRUCTIONS Cateye Velo8 Display

Thank you for purchasing an Inspeed Vortex Kart V3 Speed Gauge for Karts. It was designed to provide you with consistent, accurate information, for use in a rugged environment, at an affordable price.

Here are a few things you should know about your Vortex Kart V3:

### Operation

First, the Vortex Kart will turn on and off automatically – there is no on/off switch! Getting a measure of kart wheel speed with the Vortex is simple: just make sure that the head/rotor are aligned with the rotation of the kart wheel, and hold the Vortex lightly against the outermost surface of the tire. Apply a slight pressure to ensure good contact with the wheel. Read the wheel speed on the display.

The display is a bicycle speedometer adapted for reading kart wheel speed. There are two readouts on the display – an upper one and a lower one. The upper, larger one is all you need to monitor; the lower one can be ignored. Multiple functions can be accessed using the button on the display and to RESET things like max, average, etc. For detailed instructions on how to use the display, refer to the instructions enclosed.

NOTE: if the rotating wheel is not parallel to the kart wheel, accuracy will be compromised.  
NOTE: a small amount of play (apparent looseness) in the rotor is normal and does not affect operation.

### Calibration

The Vortex is calibrated to mph – it is ready to use out of the box. If you want to change the calibration to kph, or when you change the battery on the display, you will need to enter the proper “WS” number for the unit to display the right speed.

The WS for the Kart V3 with Cateye Velo8 Display is **160 (mph or kph)**.

Detailed instructions on entering the WS values are in the user manual/instructions (also check HELP & SUPPORT on [inspeed.com](http://inspeed.com)).

### Display Battery – type CR2032.

The Vortex uses a coin type battery in the display. If the display goes totally blank, the battery is in need of replacement. To replace the battery in the display, simply depress the small clip below the display and slide it upwards to remove it from the holder. Follow the instructions from Cateye to reset the Wheel Size.

If there is anything on the display but the speed is 0 during operation, the Head Battery needs to be replaced.

### Head Battery – type CR1025/BN

There is second battery in the head of the Vortex. To access the battery, remove the two small screws underneath the head and carefully replace the battery in the holder. Reassemble in reverse order – being careful not to over-torque (strip) the 2 small screws.

**BE SURE TO RESET THE WS TO 160 AFTER YOU REPLACE THE DISPLAY BATTERY!**



**Thank you and enjoy your Vortex™!**





## Setting the Wheel Size (“WS”) on a Cateye Velo8

The goal is to set the proper “wheel size” (WS) to calibrate the display. The WS is the same for mph or kph.

**NOTE:** New units are calibrated in MPH and are all set to go as is. But if you have changed the battery, or if you want to change/set the clock, or if you want to set the units to KPH, follow the instructions below. Also refer to the printed Cateye Instructions provided (or check under HELP on the home page of inspeed.com).

### CATEYE VELO8 SETUP

- Remove the display from the backing (press the small lever below the display and slide it upward)
- Next, using a ballpoint pen press the MODE button on the front of the display AND the SET button on the back, simultaneously. That should start things flashing.
- Press the MODE button to select MPH or KPH
- Press SET to capture that and move on
- Now press MODE three times until you get to [205]
- Press and HOLD the MODE button until the 5 starts to flash
- Press MODE 9 times until the flashing 5 becomes a 0
- Press and HOLD it again to make the 0 flash
- Press MODE once to make this a 6
- Press and HOLD it again to make the 2 flash
- Press MODE once to make the 2 a 1.  
The WS should now read [160].
- Press SET on the back to capture this and you are all set!



**THE CATEYE VELO8**