



PRO-1200 KART SPEED GAUGE OWNERS INSTRUCTIONS

Thank you for purchasing a Vortex Pro 1200 Kart Speed Gauge!

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:

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 exactly with the rotation of the kart wheel, and hold the Vortex 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 rest is simply a matter of displaying the information you want to see on the display: current speed, max speed, average speed, etc. For 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.

NOTE: if desired, the head of the unit can be tilted for ease of use.

Calibration

The Vortex is calibrated to mph. 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 number for the unit to display the right speed.

For a readout in **mph**, enter **996**.

For a readout in **kph**, enter **1602**.

Detailed instructions on entering the calibration values are in the Sigma Sport Manual.

Batteries

The Vortex uses two coin type batteries: one in the display, and one in the head/rotor assembly.

If the display goes blank, the battery in the display is likely in need of replacement.

If the display responds to button presses but does not display speed, the battery in the head/rotor assembly is likely in need of replacement.

To replace the battery in the display, simply turn the display counterclockwise relative to the handle and remove it from the holder. Follow the instructions in the Sigma Sport Manual provided.

To replace the battery in the head/rotor assembly, proceed as follows:

- Remove one of the two small screws that hold the metal plate to the bottom of the head.
- Loosen the other one and rotate the plate to one side.
- Carefully pry off the circlip on the shaft and set it aside
- Pull the rotor out of the unit, thus exposing the battery enclosure
- Replace the battery and reassemble in reverse order.

Cleaning and maintenance

If by chance dirt or contamination should enter the bearings of the Vortex, it is easy to clean, as follows:

- Remove the two screws that hold the plate under the Vortex body
- Carefully remove (pry off) the circlip on the bottom of the shaft
- Remove the shaft and rotor assembly and clean the body thoroughly
- Reassemble in reverse order

Thank you and enjoy your *vortex*™!





PRO-1200 KART SPEED GAUGE Version 2 OWNERS INSTRUCTIONS

Thank you for purchasing a Vortex Pro 1200 Kart Speed Gauge!

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:

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. 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 bottom button on the display. The upper button is for **RESETTING** things like max, average, etc.).

For detailed instructions on how to use the display, refer to the instructions enclosed or check out the Manuals tab on the Vortex Kart page of inspeed.com.

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. 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 number for the unit to display the right speed.

For a readout in **mph**, enter **0100**.

For a readout in **kph**, enter **0160**.

Detailed instructions on entering the calibration values are in the Sigma Sport Manual and/or on inspeed.com.

Battery – type CR2032.

The Vortex uses a coin type battery in the display. If the display goes blank, the battery is likely in need of replacement.

To replace the battery in the display, simply turn the display counterclockwise relative to the handle and remove it from the holder. Follow the instructions in the Sigma Sport Manual provided.

BE SURE TO RESET THE WS TO 0100 FOR MPH (OR 0160 FOR KPH) AFTER YOU REPLACE THE BATTERY!

Cleaning and maintenance

If by chance dirt or contamination should enter the bearings of the Vortex, it is easy to clean, as follows:

- Remove the two screws that hold the plate under the Vortex body
- Carefully remove (pry off) the circlip on the bottom of the shaft
- Remove the shaft and rotor assembly and clean the body thoroughly
- Reassemble in reverse order

Thank you and enjoy your Vortex !

