

# SPEEDOHEALER v4



## Install Guide for **SH-K02** Harness Kit

### For use with the following KAWASAKI motorcycles:

**ZX-12R** (2000-2006), **Vulcan 1500** (2001-2008), **VN1500** (2001-2008), **Vulcan 1600** (2003-2009), **VN1600** (2003-2009), **D-Tracker 125** (2010), **KLX125** (2010), **KLX250** (2009-2010), **KLX450R** (2009-2010)

Also fits **SUZUKI Boulevard M95** (2005-2007), **VZ1600 Marauder** (2004-2007)

*Disclaimer: Do not attempt to install the product if you don't have basic mechanical skills. The SpeedoHealer is intended to improve speedometer accuracy. However, HealTech Electronics Ltd. and its distributors shall not be liable for any loss, damage or penalties caused by improper installation or inaccurate speed readings.*

### 1. Locating the Speed Sensor coupler

#### Preparation:

- The ignition key should be in OFF position.
- Raise the rear wheel off the ground by using a stand.  
Make sure the rear wheel spins freely.
- Remove the seat.

The Speed Sensor is usually located on the top, or the side of the gearbox and reads the revolution of the countershaft.

Often the sensor is mounted on the **front sprocket cover**. The 3-pole **black** speed sensor coupler is situated 10-30 cm (4"-12") away from sensor.

The connector is usually accessible by raising the fuel tank or removing a side fairing. If the speedometer is driven off the front wheel, the sensor coupler is usually in the headlight bucket.

→ You might find information about the location of the speed sensor coupler specific for your bike model on our web: <http://www.speedohealer.com>

If in doubt, check the bike's Service Manual or ask your dealer for the location of the Speed Sensor coupler.

#### Confirmation:

Separate the Speed Sensor coupler (you might need to use a small flathead screwdriver to get the coupler apart). Rotate the rear wheel while the ignition is on. Does the speedometer show 0, turn the ignition off and proceed to the next step. Otherwise, try again since you have disconnected something else.

## 2. Installation

1. After separating the Speed Sensor coupler, plug in both the male and female 3-pole SH harness connectors. Make sure the connectors are fully seated.
2. Connect the 4-pole SH harness connector to the SH box.
3. Check whether the SH is installed and working properly:
  - Have the ignition OFF.
  - Press **SEL** and keep it depressed while you turn ignition ON. [t] (test) is now indicated. Release the button.  
***The speedo should indicate a number other than zero.***
  - Rotate the rear wheel.  
[t] ***should be blinking as the wheel turns.***
  - Press **SEL** to exit from Test mode.  
*The speedometer should work the same way as with no SH installed.*

If the tests fail, disconnect the 3-pole and 4-pole connectors and check whether the connector pins are bended or pushed out of position.

4. Find a place in your bike for the SH box regarding the followings:
  - To be able to change the settings easily, place the unit where it is quickly accessible.
  - Frequently wet areas should be avoided.
  - Do not place the unit very close to hot places like the engine or exhaust pipe.
  - Keep at least 2 cm (1") distance from other electronics, such as the bike's ECU or a Power Commander.

In most cases, the under-seat compartment is the best location for the box. Secure the unit with the supplied Velcro strips.

5. Neatly route the SH harness from the 3-pole plugs to the mounting location, preferably along the frame. To reduce possible interference, try not to route the SH harness along with other electrical cables.  
Do not bend the SH harness near the SH connector. Otherwise the pins may break over time.  
To minimize cable stress, use the supplied cable ties to fasten the unit and the harness to a solid part of the bike. Make sure that the SH switches won't be hit by loose objects in the trunk.
6. Connect the 2-pole plug of the remote button. Route the harness towards the front end of the bike and secure the remote button at the dashboard with the supplied cable ties.  
If you wish, you can easily change the harness length or replace the remote button per your liking (any SPST momentary "push-to-make" switch can be used).
7. Please visit [www.speedohealer.com](http://www.speedohealer.com) and use our on-line calculator to generate set-up instructions for your SH. Alternatively, refer to the *User's Guide* for instructions.