

# GIpro DS-SERIES

## Installation and Operation Manual

### Model GPDS-K04

#### **For use with the following KAWASAKI motorcycles and ATVs:**

**ER-6F** (2012-2013), **ER-6N** (2012-2013), **KLE650 / Versys** (2010-2013), **KVF 750** (2012-2013), **Ninja 250R** (2013), **Ninja 300** (2013), **Ninja 650** (2012-2013), **Ninja 1000** (2011-2013), **Versys 1000** (2012-2013), **VN900** (2011-2013), **W800** (2011-2013), **Z750** (2010-2012), **Z750R** (2011-2012), **Z800** (2013), **Z1000** (2010-2013), **Z1000SX** (2011-2013), **ZRX1200 DAEG** (2011-2013)

#### **Foreword**

Congratulations on your purchase of a GIpro-DS gear position indicator. The GIpro from HealTech Electronics Ltd. is the most advanced gear position indicator on the market today.

This product will fit all Kawasaki fuel injected (FI) motorcycles which have on-board Diagnostic System connector. This connector is referred as KDS (Kawasaki Diagnostic System) in the Kawasaki manuals.

Unlike other gear indicators available for your bike, this product connects to the diagnostic connector. It makes the installation very simple. The unit reads data directly from the ECU, offering faster and more reliable readings than competing products.

The display is auto learning, there are no buttons and no "programming wire".

#### **Known limitations:**

Your bike is not equipped with Gear Position Sensor, therefore determining the gear in use is only possible when the engine is running and the clutch is released.

## **Installation**

Find the **semi-transparent, 4-pole male** diagnostic connector (KDS) under the seat, near the ECU box. It has a removable cap.

*Note: You may find TWO of this connector on your bike. In this case, try both connectors, but only one of them will supply data to the GIpro. It will not harm your bike if you connect the GIpro to the wrong plug first.*

Remove the cap, and connect the GIpro plug.

Route the cable to the mounting location.

Peel off the green plastic from the back of the unit, and mount the display.

Secure the cable with the cable ties supplied, ensuring that the steering movement is not impaired by the cable.

## **Setup**

This unit comes pre-programmed for Kawasaki bikes. It is fully functional after installation. When ignition is turned on, the display counts forward (1 to 6) and it will show the gear selected when engine is running and clutch is released.

However, if you have a *SpeedoHealer*, or other speedometer calibrator installed, or the clutch switch is not working, you may find that some gears are not indicated correctly.

For this reason, the GPDS-K04 model has two operating modes:

- **Factory mode** (default, no need to teach the GIpro)
- **Custom mode** (learning procedure must be performed)

Use the *Custom mode* only if some gears are not indicated correctly.

### Custom mode:

- Perform the Reset procedure as described in the next chapter.
- Turn ignition On. The display counts backwards (6 to 1) indicating that the unit is in *Custom mode* and it is ready to learn the gear positions.
- Raise the rear wheel off the ground by using a stand, and start the engine in Neutral.
- The display will blink "1".  
Select first gear, release the clutch, and keep the RPM above idle speed.  
The display is blinking faster while the unit is learning the gear.
- When the display shows "2", select second gear.  
Repeat this process until all gears are thought (5 or 6).  
If your bike has 5 gears, wait until "6" is blinking, then pull the clutch in and turn ignition off.  
If your bike has 6 gears, wait until "o" (over) is indicated.

The unit is programmed and should indicate the gears correctly.

Now, when ignition is turned on, the display counts forward (1 to 6) indicating that it is fully functional.

## **Reset**

Perform the Reset procedure if you wish to toggle between *Factory mode* and *Custom mode*.

Cut off the power of the unit 6 times in a row, while the GIpro display is counting up and shows 3, 4 or 5 (or counting down and shows 2, 3 or 4).

*On certain bikes, you can power on/off the display by flipping the engine RUN switch on/off.*

*Otherwise, you can do this by cycling the ignition key, or disconnecting-reconnecting the GIpro coupler while ignition is on.*

Note: if you wish to stay in *Custom mode* but want to repeat the learning procedure, you need to execute the Reset procedure twice.

## **Troubleshooting**

You may find TWO semi-transparent connectors on the bike with a removable cap or dummy plug. Try the second one if the unit does not work from the first one.

Disconnect the GIpro connector and check whether the pins are broken, bent or pushed out of position. Reconnect the plug, and make sure that all connections are good and the connector is fully seated.

If you can not execute the Setup procedure, your battery might be old or weak. Charge the battery or connect another battery using a jumper cable.

If some gears are not indicated properly when the engine is running and clutch is released, reset the unit and setup again.

If the problem persists, your clutch might be slipping.

## **Warranty**

The unit is completely sealed and epoxy encapsulated, which gives extreme protection for the internal parts from shocks, vibrations and water.

To ensure trouble-free operation from the start, all units have been extensively tested prior to shipment.

Our dealers are offering a 30-day money-back guarantee on HealTech products, thus you will get your money back if the product does not fulfill your expectations. *(All parts must be returned in original condition for full refund.)*

Furthermore the product is covered by our 2-year replacement warranty from the date of purchase.

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