GIpro X-type G2

Install Guide for **GPX-WSS** Harness Kit

Compatibility:

This universal harness kit includes a Wheel Speed Sensor and will fit all motorcycles and vehicles which have electronic ignition system.

➔ *Please check the **Product Advisor*** on our website *to see if we have a specific Harness Kit available for your motorcycle.*

1. Overview

You need to mount the supplied wheel speed sensor and connect 3 wires to the bike's wiring harness. Good quality quick connectors are supplied (3 pcs wire taps). No need to cut any wires and no need for soldering.

A universal mounting bracket for the sensor is included. If it's not suitable for your bike, the bracket can be made from a metal piece (about 2mm thick steel is recommended).

Due to the large number of bike models and vehicles compatible with this Kit, model specific wire colors and install instructions are not described in this document.

To complete the install, it is recommended that you consult with your dealer and/or refer to the Service Manual available for your bike.

2. Installation

Disclaimer: Do not attempt to install the product if you don't have basic mechanical and electrical skills. HealTech Electronics Ltd. and its distributors shall not be liable for any loss or damage caused by improper installation. If in doubt, please consult with your dealer.

1. The ignition key should be in OFF position. Remove the seat, raise and support the fuel tank.

2. **Connect** the GIpro **Black** wire to a Ground lead near the instrument cluster, e.g. to the ground lead of the parking light or dashboard light. Use the **Red wire tap** connector supplied.

Usage: Place the unstripped run wire (ground lead) inside the run channel. Close the side cover until latched. Cut off the excess length, then insert the unstripped tap wire (Black) completely and check its position. Insert the blade (u-contact) and press down by finger pressure. Then, fully depress the u-contact with pliers. Close the hinged top cover until latched.

Alternatively, connect the GIpro Black wire to chassis ground.

3. **Connect** the GIpro **Red** wire to a switched +12V power lead, such as the hot wire of the parking light or dashboard light. Use the Red wire tap connector supplied.

4. Connect the 4-pole GIpro harness connector to the GIpro display connector.

5. Check whether the Power and Ground connections are correct:

   Test #1:
   Turn ignition On →
   The GIpro display should count from **6** to **1**, then "**L**" flashes slowly.
   (If not, the display is not receiving power and/or ground.)
   Turn ignition OFF.

6. **Mount** the wheel speed sensor so that it will read the bolt heads of the rear brake disc or the bolt heads of the rear wheel sprocket. If rear wheel mount is not possible, you can also install the sensor at the front wheel.
   Any rotating metal targets will work, but the targets (e.g. bolt heads) must be spaced at equal distances. *See mounting examples at the back of this page.*

   Adjust and tighten the sensor so that the tip of the sensor will be in-line with the center of the bolt head. The air-gap should be about **1mm**.

7. **Connect** the 3-pole sensor connector to the GPX wiring harness connector.

   Test #2:
   Turn ignition On, then **Rotate the wheel** at least 5 km/h (3 mph) →
   The GIpro display should indicate a rolling wheel.
   (If not, the display is not receiving the speed signal. Check the connector pins and adjust the sensor distance. Rotate the sensor body by 45 degrees.)

8. **Connect** the GIpro **Black/Green** wire to any of the following options, using the Red wire tap connector supplied:

   a) The signal wire of the **crankshaft sensor** (also called Pickup coil or Ignition Pulse Generator). The Crankshaft sensor is inside the crankcase, usually near the Alternator. It has two wires.

   b) The **tacho signal** (rpm counter) wire, anywhere between the dashboard connector and the ECU box.

   c) The **ignition coil** signal wire, anywhere between the ignition control unit and the coil input terminal.

   Test #3:
   Start the engine → "**L**" should flash **faster** for a few seconds.
   (If not, the display is not receiving the RPM signal.)

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

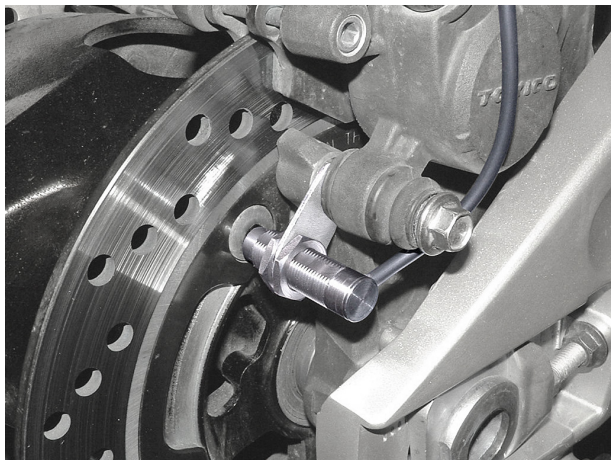
10. Neatly route the cables preferably along the frame. Use the supplied cable ties.
    Do not bend the harness near the 4-pole connectors.
    Do not route the harness very close to the exhaust pipe or cylinder head.
    Make sure the sensor cable is secured properly and kept away from moving parts.

11. Use black tape to secure and isolate the 4-pole connectors.

12. If all tests work fine, refer to the User's Guide for setup instructions.

Sensor mounting examples

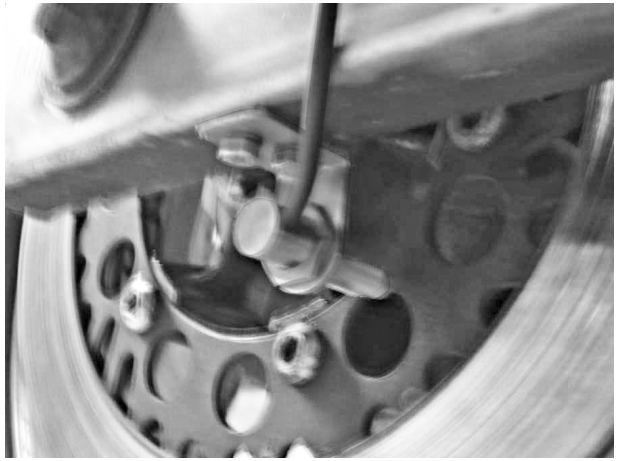
at rear brake calliper bolt using supplied bracket



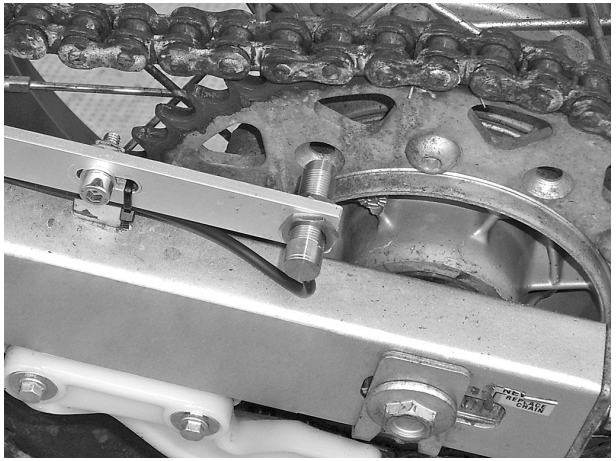
at front axle pinch bolt



at the bottom of swingarm, brake disc side



at the top of swingarm, sprocket side



at the ABS ring *(best option if available)*

