

Install Guide for **GPX-D01** Harness Kit

For use with the following DUCATI motorcycles:

Monster (2002-2008), **Multistrada** (2003-2009), **ST3** [non-ABS] (2004-2007), **ST4s** [non-ABS] (2004-2005), **749** (2003-2006), **999** (2003-2006)

Also fits **MV AGUSTA F4** (2003-2010), **Brutale** (2004-2010)

Note: This Harness Kit will work with the GIPRO-X display version C11 (or later) only. Before installation, please check the display version at the back of the header card. There must be a label "**FW: C11**" (or later).

Disclaimer: Do not attempt to install the product if you don't have basic mechanical 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. Locate the **Speed Sensor connector**.

Ducati: The Speed Sensor is mounted at the rear wheel. Trace the cable from the sensor until you find the 3-pole black speed sensor connector. The connector is usually accessible by removing the right side fairing and on most models it is in close proximity of the right side engine cover.

MV Agusta: the connector is at the front sprocket cover.

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

Confirmation:

Separate the Speed Sensor connector (you might need to use a small flathead screwdriver to get the connector apart). Rotate the rear wheel while ignition is on. The speedometer should indicate 0. If so, turn the ignition off and proceed to the next step. Otherwise, if the speedometer registers a speed other than 0, you have not disconnected the correct coupler and need to look again.

2. After separating the Speed Sensor connector, **plug in** both the male and female 3-pole Gipro harness connectors. Make sure the connectors are fully seated.

*If you have a **SpeedoHealer** installed, you have to connect the plugs in-line in the following order:*

Speed sensor female plug → Gipro → SH → bike male plug

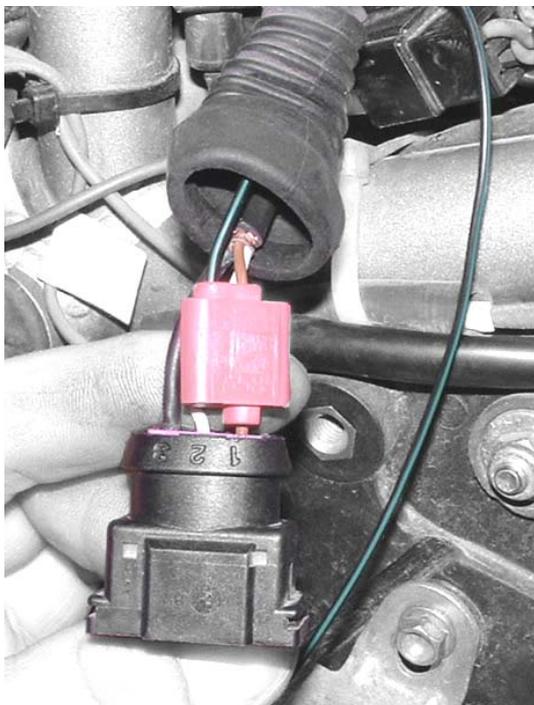
- Find **RPM/Timing Sensor (Pickup) connector**. The sensor is mounted either on top, or the side of the crankcase. Trace the cable from the sensor until you find the 3-pole connector. Here is the connector location on some popular models:

Monster S2R, Multistrada	At the left side, above horizontal cylinder, zip-tied to frame.
Monster S4RS	Behind left side cover under seat.
ST3	At the right side of engine, zip-tied to frame.

If in doubt, check the bike's Service Manual or ask your dealer for the location of the RPM/Timing Sensor connector.

- Disconnect the connector, and pull back the LARGER rubber boot from the plug, to leave the three wires exposed.
- Route** the Gipro **Black/Green** wire through the rubber boot from the back. Make sure the wire will NOT touch the exhaust pipe or cylinder block.
- The connector pins are numbered. Connect the Gipro **Black/Green** wire to the wire in connector slot position **1**, using the **Red wire tap** connector supplied.

Usage: Place the unstripped run wire (slot position 1) inside the run channel. Close the side cover until latched. Cut off the excess length, then insert the unstripped tap wire (Black/Green) 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.



7. Connect and secure the RPM/Timing Sensor connector with zip-tie.
8. Connect the Gipro **Red wire** to a **switched +12V power** lead, e.g. behind the Fusebox to the **Red/Back** wire.

We recommend to make a temporary connection for the red wire (*e.g. by using a thin needle*) and see if the display turns on and off with the Ignition Key. Then cut off the excess length from the red wire and use the second **Red wire tap** connector supplied to make the connection.

9. Connect the 4-pole Gipro harness connector to the Gipro display connector.

10. Check whether everything is installed and working properly:

- **Select Neutral and 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. Check the connections at the speed sensor connector and at the red wire.)
- **Rotate the rear wheel** → the display should indicate a rolling wheel.
(If not, the display is not receiving the speed signal. Check the connection at the speed sensor connector.)
- **Start the engine** → "**L**" should flash **faster** for a few seconds.
(If not, the display is not receiving the RPM signal. Check the wire tap.

Turn the ignition Off. If the tests still fail, disconnect the 3-pole and 4-pole connectors and check whether the connector pins are bent or pushed out of position. Spray some WD40 into the plugs.

11. Peel off the green plastic from the back of the unit, and mount the display.
12. Neatly route the Gipro harness from the 3-pole plugs to the mounting location, preferably along the frame.
Do not bend the harness near the 4-pole connectors.
Do not route the harness and wires very close to the exhaust pipe or cylinder block.
13. Use black tape to secure and isolate the 4-pole connectors. To minimize cable stress, use the supplied cable ties to fasten the unit and harness to other cables.
14. Perform the Setup procedure as per the User's Guide.
If you notice that the display is showing wrong gear in 1st gear with the clutch pulled in, Reset and Setup the unit again with COLD engine, so that idle speed is higher than normal during the setup procedure.