

Install Guide for **GPX-Y01** Harness Kit

For use with the following YAMAHA motorcycles:

YZF-R6 (1998-2010), **YZF-R1** (1998-2010), **BT1100** Bulldog (2002-2006), **FJR1300** [non-ABS] (2001-2005), **FZ6** [non-ABS] (1998-2010), **FZ6** [ABS] (2006), **FZS600** Fazer (1998-2003), **FZ6R** (2009-2010), **FZ1** (2001-2010), **FZS1000** Fazer (2001-2010), **MT-01** (2005-2010), **MT-03** (2006-2010), **TDM900** [non-ABS] (2002-2010), **TDM900A** [ABS] (2004-2008), **Stratoliner** (2006-2010), **Drag Star** (1999-2006), **Raider** (2008-2010), **Road Star** (1999-2010), **Roadliner** (2006-2010), **Royal Star** (1997-2010), **V-Star** (1999-2010), **Warrior** (2002-2010), **WR250R/X** (2008-2010), **WR450R/X** (2008), **XJ6** [non-ABS] (2009-2010), **XJR1300** (2004-2010), **XT660** (2004-2010), **XVS950A** Midnight Star (2009-2010), **XVS1100** Drag Star (1999-2006), **XVS1300A** Midnight Star (2007-2010), **XV1600A** Wild Star (1999-2005), **XV1900A** Midnight Star (2006-2010), **YS250** Fazer (2005-2007)
YFM660 Raptor [ATV] (2002-2005), **YFM700** Raptor [ATV] (2005-2010)

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. **Remove the seat and fuel tank.** On most Yamaha models, all connections will take place under the fuel tank.

2. Locate the **Speed Sensor coupler**.

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

The 3-pole speed sensor coupler is situated 20-40 cm (8"-16") away from sensor.

The connector is usually accessible under 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.

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 wheels 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.

3. After separating the Speed Sensor coupler, **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

4. Find the **2-pole natural** (or black) color plug of the **Crankshaft position sensor** (Pickup coil). It has two wires coming from the crankcase: one is **Gray**, the other is usually Black/Blue - check the colors at both sides of the plug (*if in doubt, do a temporary connection e.g. by using a thin needle to backprobe the connector pin*). The 2-pole connector is usually under the fuel tank.

*Note for XVS1100 models only: find and use the **Orange** (ignition coil wire).*

5. Peel off the black sleeve (tape) near the 2-pole plug, leaving about 3 cm (1.2") of the **Gray** wire exposed.

6. Connect the GIpro **Black/Green** wire to the **Gray** wire, using the **Red wire tap** connector supplied.

Usage: Place the unstripped run wire (Gray) 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 the GIpro **Red** wire to a switched +12V wire, e.g. to the rear brake light switch, located under the fuel tank (**2-pole** brown or black connector, **Brown** wire). Use the other **Red wire tap** connector supplied.

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

9. 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.)

- **Rotate the wheels** → 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.

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

11. 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 very close to the exhaust pipe or cylinder head.

12. 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.