

QuickShifter easy

Install Guide for **QSH-Pxx** Harness Kit

Before installing this Harness Kit, please make sure you got the right parts for your bike. See the part numbers on the packaging and use the **Product Advisor** on our website to check compatibility.

These instructions are applicable to a wide range of motorcycles and describe the main install steps needed for a successful installation.

You can find motorcycle specific Supplementary Manuals on our website. Please visit:

www.healtech-electronics.com/QSE

***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. Gain access to the IGNITION COIL connectors.

Depending on bike model, the followings may need to be removed:

- the seat
- the fuel tank
- the airbox

2. Connect the QSH plugs to the Ignition Coil connectors.

Disconnect ONE bike connector at a time, and connect ONE pair of the QSH connectors, then proceed with the next.

If the bike has 1 or 3 cylinders, make sure the QSH plugs marked with RED square are connected, and leave one unmarked coupler unused (*you may connect the male and female plugs of the unused pair together*).

3. Neatly route the QSH harness from the ignition coil plugs to the place where you wish to mount the unit, along the frame.

Typically it is under the rider's seat, but after the initial tests the unit can be hidden anywhere. (*No need to access the module for programming, you can change settings any time wirelessly.*)

Do not route the harness very close to the exhaust pipe or cylinder head.

Do not place the module close to hot surfaces or in direct contact with other modules, like the bikes' ECU.

4. Connect the QSH black wire terminal to a good chassis ground (*ignore this step if your QSH-Pxx harness does not have a ground lead*)

When removing the bolt, clean the surface. We recommend not to use the battery negative terminal, because the battery is removed time to time.

Do not use the cylinder head bolts but a good chassis ground such as used by the bike's main ground terminal.

5. Connect the iQSE module to the 4-pole QSH harness connector.

Make sure it clicks into place.

Note: If you ever have to disconnect the 4-pole connector, you must lift up the locking latch which is above the small plug, and gently separate the connectors. You may need to use a small flathead screwdriver as the seals make a tight fit. Do NOT pull on the wires.

6. Use the cable ties supplied to secure the QSH harness.

Do not over tighten to avoid damaging the cable.

7. Put the fuel tank back, then check whether everything is installed and working properly:

Start the engine and let it idle.

The engine should start and run normally.

The iQSE LED light should be lit in solid GREEN color.

If the test fails, disconnect all connectors and check whether the connector pins are bent or pushed out of position. Spray some WD40 into the plugs. Also check the black wire terminal connection.

If the problem persists (or if you experience a problem later) **disconnect the iQSE module and connect the supplied Jumper-plug** to the 4-pole QSH wiring harness connector. Check whether the engine works normally with the Jumper-plug. If not, the possible causes:

- Bank angle sensor is not in place.
- Some connectors (e.g. from the fuel tank) may not be reconnected.
- A connector pin does not make contact (bent or loose).
- QSH harness is damaged or not suitable for your bike.

8. Mount the iQSE module with the supplied Velcro strip.

Using the Velcro strip is VERY important to minimize vibrations and cable stress at the unit, do not skip this step.

9. Install the QSE Sensor as per the document supplied.

10. When the installation is complete, refer to the **User's Guide** for setup instructions.

Note: On your motorcycle, the ignition coils may get power only when the engine is running. If the iQSE LED is not lit when ignition is turned ON and the engine stop switch is in RUN position, it means the iQSE module is off and you need to have the engine running to connect from your phone to the module.

For assistance, please contact us: support@healtech-electronics.com