

1. Foreword

Congratulations on your purchase of a HealTech Secondary Throttle Valve Eliminator module (STVE). This unit will fit motorcycles which are factory equipped with a secondary butterfly valve in the throttle body and an electronic actuator motor controlled by the bike's ECU. The Plug 'n Go connector makes installation quick and easy,

eliminating the need to alter the bike's original wiring.

Attention: By installing this product, your bike's emission level may change, which might violate local emission norms/regulations. Do not use on public roads.

2. Installation

Before installing this product, please make sure you got the right part for your bike. See the part number 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/STVE

Disclaimer: Do not attempt to install the product if you don't have advanced 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 throttle body assembly under the airbox. Find the two connectors of the actuator motor (STVA) and the secondary throttle position sensor (STPS) on the throttle body assembly. Proceed with extra caution, as there can be more connectors which look the same, such as the fuel pump connector on certain bike models. Be sure to use the STVA and STPS connectors.
2. Unplug the two connectors and plug the STVE module into the wiring harness connectors.

3. Mount the module to the inner side of the frame with the Velcro strips. Secure the wiring and plugs with the supplied cable ties.

4. Remove the butterfly valve flaps/throttle plates from the rod by unscrewing the small holding screws. It's advised to block the throttle body intake holes, so the screws or any other mechanical parts don't fall into the combustion chamber(s), which would cause serious engine damage.

5. We recommend having the AFR (air-fuel ratio) of the engine checked by a dyno center and adjust if necessary.

6. You may experience that cold starting the engine is more difficult without the STV actuator motor. In this case, either adjust the idle speed higher, or pull some throttle while starting the engine and hold it until the idle speed becomes steady.

7. Check the idle RPM (with warm engine) and make sure it's within specification. Otherwise, adjust the main TPS according to the Service Manual of your bike. If the main TPS is not set properly, the ECU might show STV error even with the STVE installed.

3. 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.

4. Specifications

- Supply voltage: 5V
- Max. supply current at 12V: 5mA
- Operating temp: -40°C to +80°C (-40°F to +176°F)

- Size: 59 x 35 x 17 mm (2.3 x 1.4 x 0.7 inches)
- Weight: 62 g (2.2 oz)
- Plug 'n Go design