

FuelX Autotune- RE Interceptor 650/ Continental GT 650 2025+ EU 5+

Document Version	1	Release Date	31 Dec 2025
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Application information	FuelX
Vehicle	Royal Enfield
Model	Interceptor 650/ Continental GT 650 EU 5+
Year of manufacture	2025+

Note:

- Read through all instructions before installation and use.
- Ensure that the bike is switched off and the key is out of the ignition before proceeding with the installation.
- Some parts of the bike might be hot/sharp and cause burns/cuts. Proceed with extreme caution or wait until the bike has cooled down. Always wear safety gloves.
- When the installation is complete, ensure to secure the wiring loom away from the movable parts or components that tend to heat up during the normal operation of the vehicle at any time.
- FuelX is intended for motorsport use on a closed course. Please check with your local laws before using this product. Race Dynamics is not liable for consequences arising from using the product.
- The steps demonstrated in the manual are for one cylinder. For multi-cylinder vehicles, the steps have to be replicated for the other cylinders.
- This document can also be used as a reference for the installation of the Bear 650/ Continental GT 650 2025 EU5+

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for Indian specification vehicles, the FuelX module will have a sticker indicating it.

! FOR INDIAN SPECIFICATION BIKES ONLY

The warranty/support will not be provided for international users with Indian specification FuelX purchased from unauthorized re-sellers.

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1. FuelX

FuelX is an electronic, plug-in, fuel-injection optimiser for modern engines. It either enriches or decreases the AFR in all operating regions according to the rider's requirement. It autotunes the engine to the best operational parameters, constantly monitoring, learning, and adapting to the engine condition, wear and tear, riding style, add-ons (such as air filter and/or exhaust), etc as well as the environmental conditions such as temperature, humidity, altitude, etc., always ensuring the engine performs in the safest and most optimal zones.



The FuelX kit contains the following items

- FuelX Module
- Wiring Harness
- Handlebar map switch (Pro version only)
- Zip ties
- Decals
- Quick start guide and Warranty card



Image 1.1

2. FuelX Variants:

FuelX Pro+

The FuelX Pro+ variant has 10 maps that can be changed depending on the rider's preference. For the Pro+ version, the FuelX contains an additional connector (Refer to Image 2.3) for the Handlebar Map switch (Refer to Image 2.2).



Image 2.1



Image 2.2

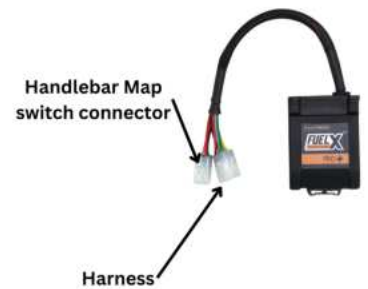


Image 2.3

FuelX Lite

The FuelX Lite variant has a single autotune map and only one connector for the harness.



Image 2.4

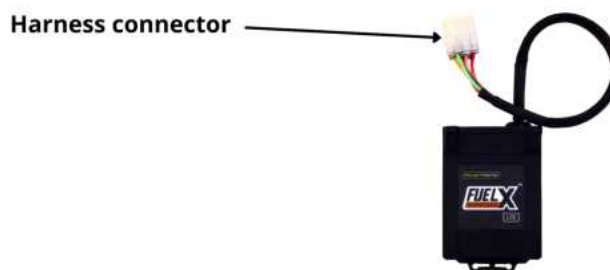


Image 2.5

3. FuelX Harness Connectors

The harness contains

- The Lambda connectors (O₂) - Pre and Post CAT
- FuelX connector
- Ground/battery negative connector.



Image 3.1

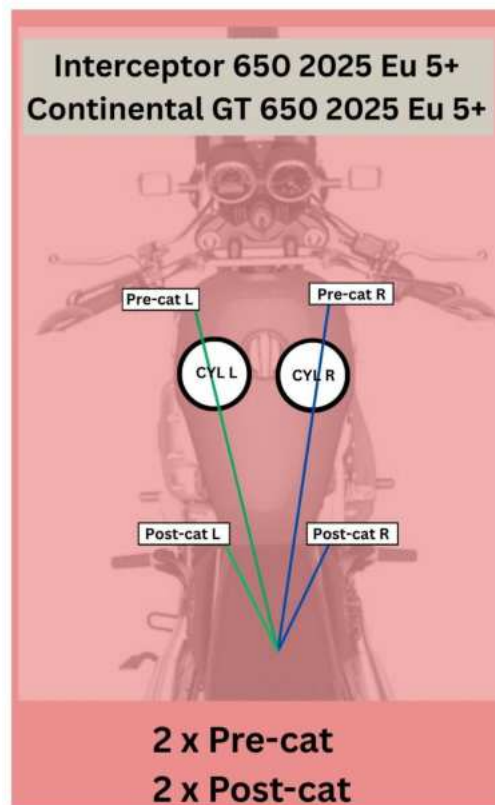
The type and number of connectors may vary depending on the vehicle, year of manufacture, and the number of cylinders. Examples of different types of Lambda sensor connectors are shown below.



Image 3.2

The FuelX is connected between the Lambda sensor connector and the ECU. The male connector of FuelX is connected to the female of the Lambda sensor and vice versa.

Image 3.3



4.1 Removing panels and fairing

Park the bike using the centre stand on a level surface (Or a paddock stand).



Image 1

Locate the position of the Lambda sensor connectors.



Image 2

4.1.1 Unlock and detach the right-side panel. Refer to **Image 3**.



Image 3

4.1.2 Gently detach the panel after unlocking it. Refer to **Image 4**.



Image 4

4.1.3 Locate and pull the knob to unlock the seat lock. Refer to **Image 5**.



Image 5

4.1.4 **Image 6** shows how the seat is unlocked.



Image 6

4.1.5 Detach the seat carefully. Refer to **Image 7**.



Image 7

4.1.6 Locate and remove the tank bolts using a 10 mm hexagonal T socket. Refer to **Image 8** and **Image 9**



Image 8



Image 9

4.1.7 After removing the bolts, gently lift the rear end of the tank a little. Refer to **Image 10**.



Image 10

4.1.8 Disconnect vacuum hose 1 carefully. Refer to **Image 11**.



Image 11

4.1.9 Disconnect the vacuum hose 2 carefully. Refer to **Image 12**

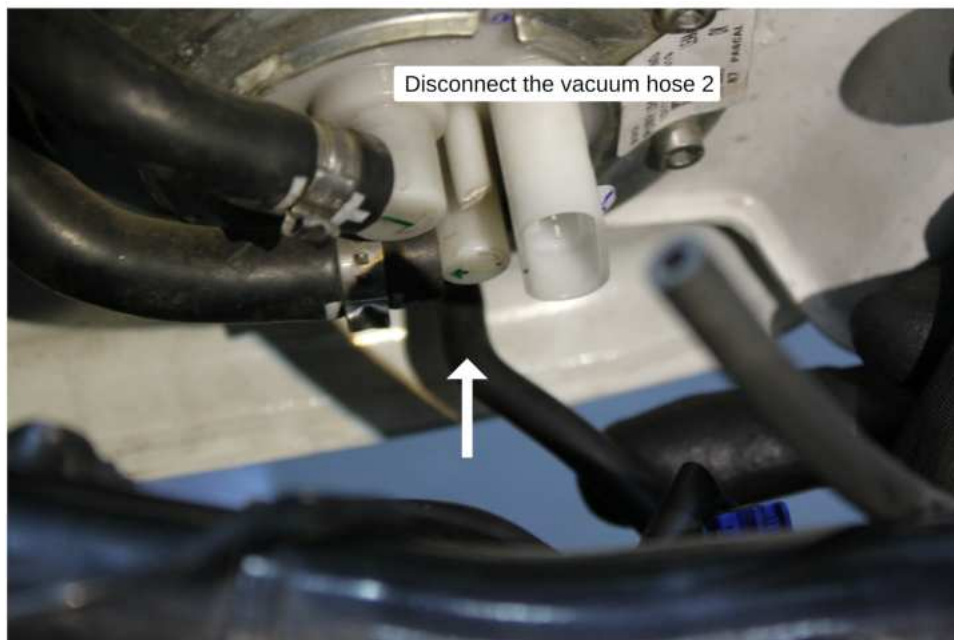


Image 12

4.1.10 Disconnect the fuel pump connector carefully. Refer to **Image 13**.

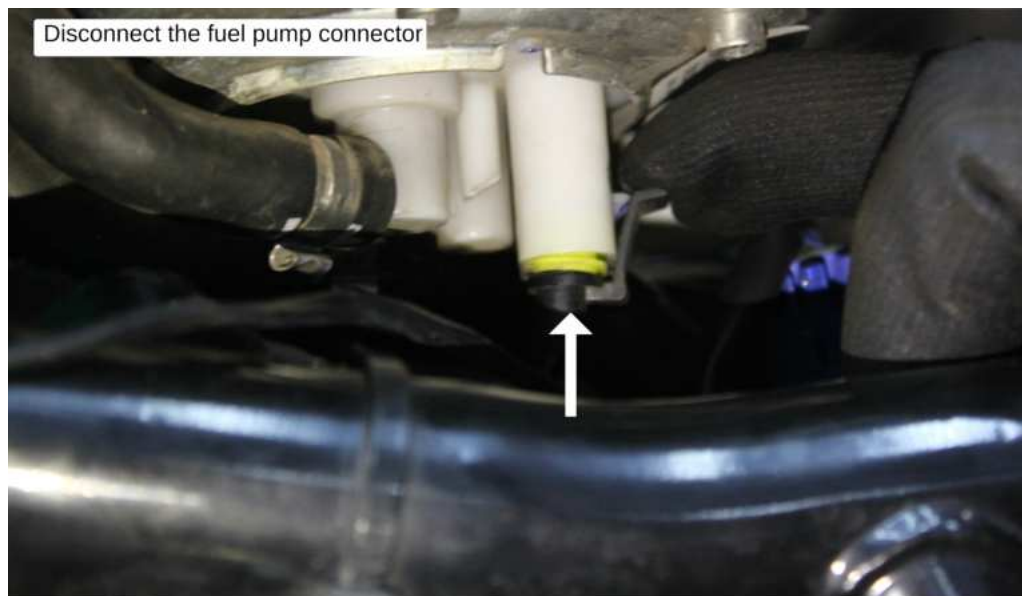


Image 13

4.1.11 Identify and disconnect the fuel gauge connector. Refer to **Image 14**

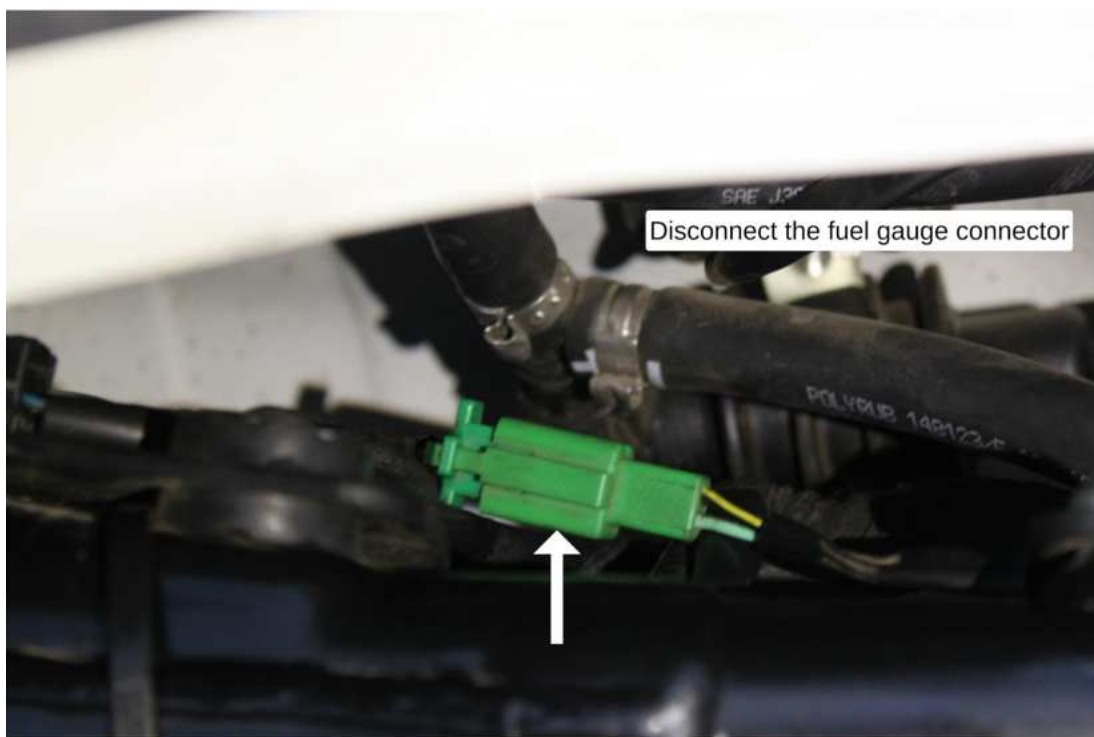


Image 14

4.1.12 Locate and carefully disconnect the fuel line. Refer to **Image 15**



Image 15

4.1.13 Gently lift the tank from the tank seating after disconnecting the connections. Refer to **Image 16**.



Image 16

4.1.14 Refer to **Image 17** for the disconnected view of the connections.

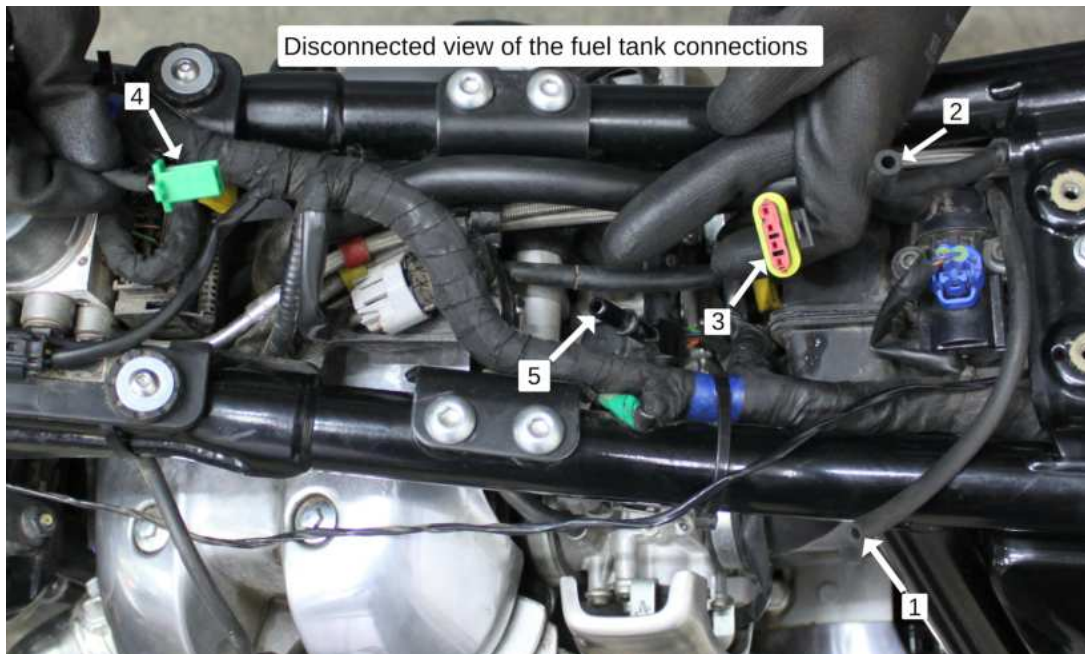


Image 17

4.1.14 Remove the bash plate mounting bolts at the front end. Refer to **Image 17**



Image 17

4.1.14 Remove the bash plate mounting bolts at the rear end. Refer to [Image 17](#)



Image 17

4.1.14 Remove the bash plate mounting bolts at the rear end. Refer to [Image 17](#)



Image 17

Routing the harness.

4.1.18 Route the FuelX harness to the front end. Refer to **Image 34**.



Image 34

4.1.19 Route the FuelX harness under the frame. Refer to **Image 35**

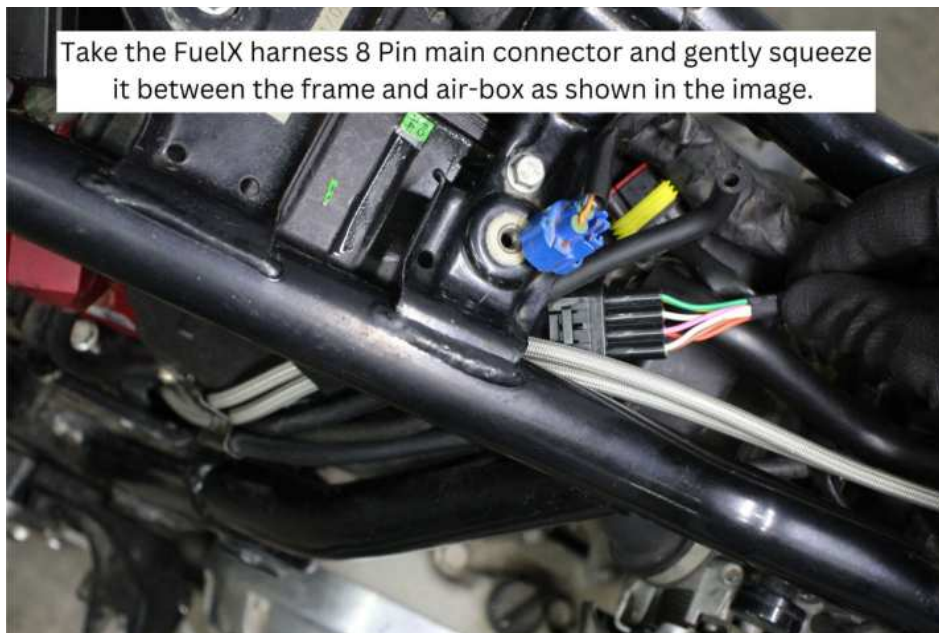


Image 35

4.1.20 Route the FuelX harness under the frame. Refer to **Image 36**



Image 36

4.1.21 Route the FuelX harness behind the frame. Refer to **Image 37**



Image 37

4.1.22 Route the FuelX Pre-cat branches as shown in the image. Refer to **Image 38**

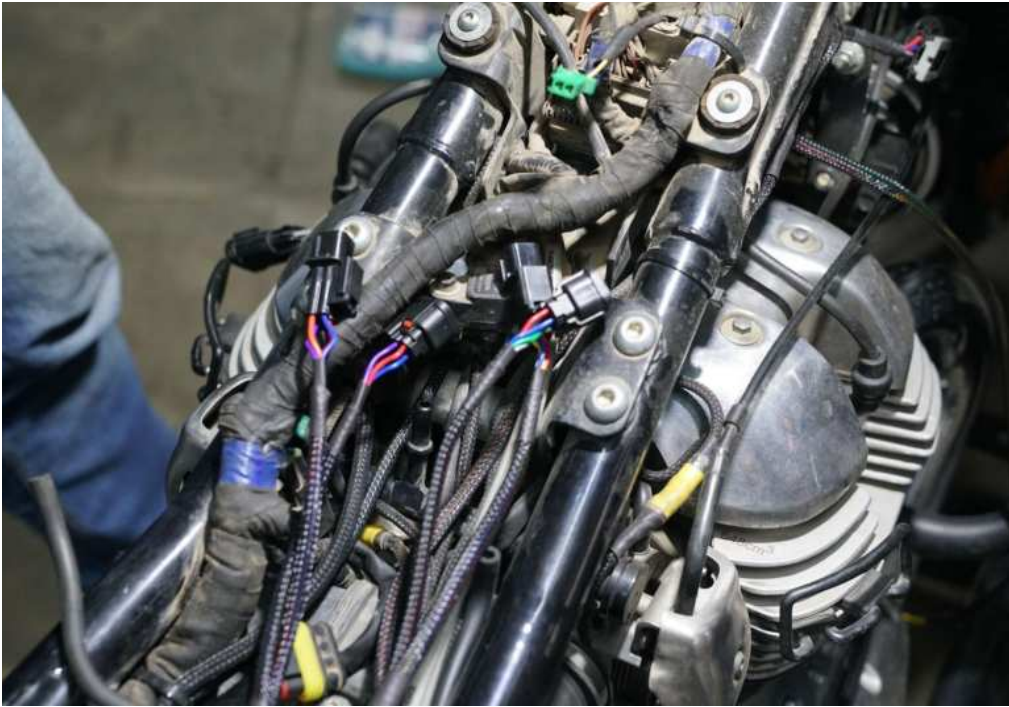


Image 38

4.1.23 Route the FuelX Pre-cat Branches to the front end and the Post-Cat branches to the rear end as shown in the image. Refer to **Image 39**



Image 39

Pre-cat Lambda sensor connectors.

4.1.15 Refer to **Image 31** to locate the right side Pre-cat Lambda sensor and Lambda Sensor Connector



Image 31

4.1.16 Slide the connector back from the lock. Refer to **Image 32**



Image 32

4.1.17 Disconnect the Pre-cat male and female connectors. Refer to **Image 33**.



Image 33

4.1.24 Connect the FuelX Pre-cat (R) male connector to the Stock female Lambda connector. Refer to **Image 40**

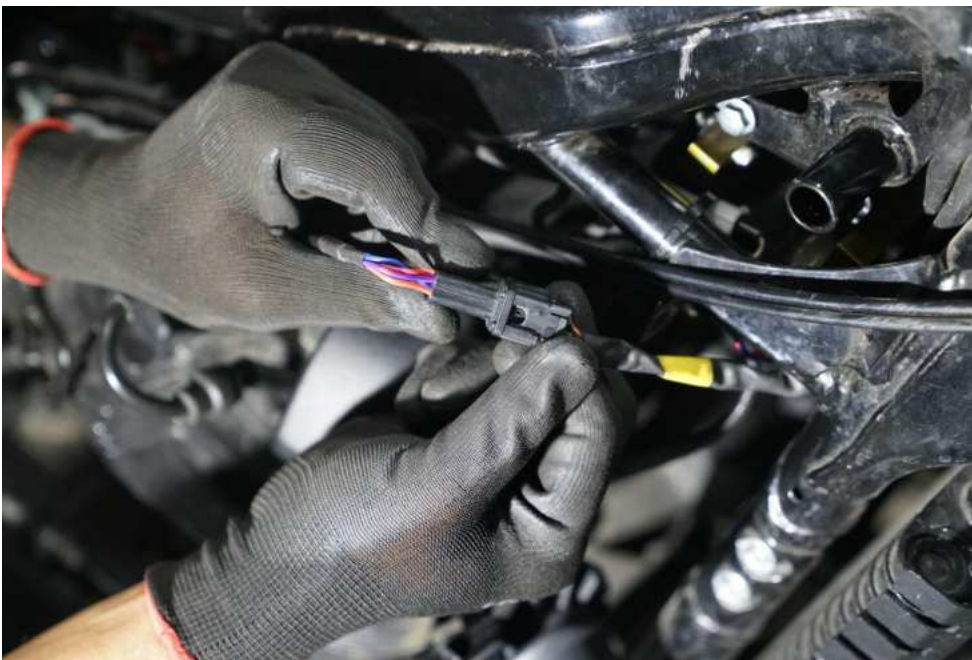


Image 40

4.1.25 Connect the FuelX Pre-Cat (R) female connector to the Stock male Lambda connector. Refer to **Image 41**



Image 41

4.1.26 Slide the connector back to the lock. Refer to **Image 42**. Repeat the processes on the other side also.



Image 42

4.1.32 Using the zip ties provided within the kit, tie the Lambda cable to the frame.

Post-cat Lambda sensor connector(s) (For Euro 5+ Models) -

Refer to the following steps if your vehicle is a Euro 5+ model.

The Interceptor and Continental GT 650 have 2 Post-cat Lambda sensors on both sides of the exhaust.

4.1.28 Locate the Post-cat (R)Lambda sensor connector on the right side. (Trace the sensor line to find the Lambda sensor connector). Refer to **Image 31**



Image 31

4.1.29 Disconnect the Lambda sensor connector. Refer to **Image 32**.



Image 32

4.1.30 Connect the FuelX Post-cat male connector to the stock post-cat female sensor connector. Refer to [Image 33](#)



Image 33

4.1.30 Connect the FuelX Post-cat male connector to the stock post-cat female sensor connector. Refer to [Image 33](#)



Image 33

4.1.31 Refer to **Image 34** for the completed view.



Image 34

4.1.28 Locate the left-side post-cat Lambda sensor connector. (Trace the sensor line to find the Lambda sensor connector). Refer to **Image 31**



Image 31

4.1.29 Disconnect the Lambda sensor connector. Refer to [Image 32](#).



Image 32

4.1.30 Connect the FuelX Post-cat male connector to the stock Post-cat female sensor connector. Refer to [Image 33](#)



Image 33

4.1.30 Connect the FuelX Post-cat male connector to the stock Post-cat female sensor connector. Refer to **Image 33**



Image 33

4.1.31 Refer to **Image 34** for the completed view for Post-Cat (L).



Image 34

4.1.33 Locate the battery negative terminal. Refer to **Image 44**.



Image 44

4.1.34 Unscrew the battery negative terminal using a Phillips head screwdriver. Refer to **Image 45**



Image 45

4.1.35 Connect the FuelX ground terminal connector to the battery negative terminal. Refer to Image 46

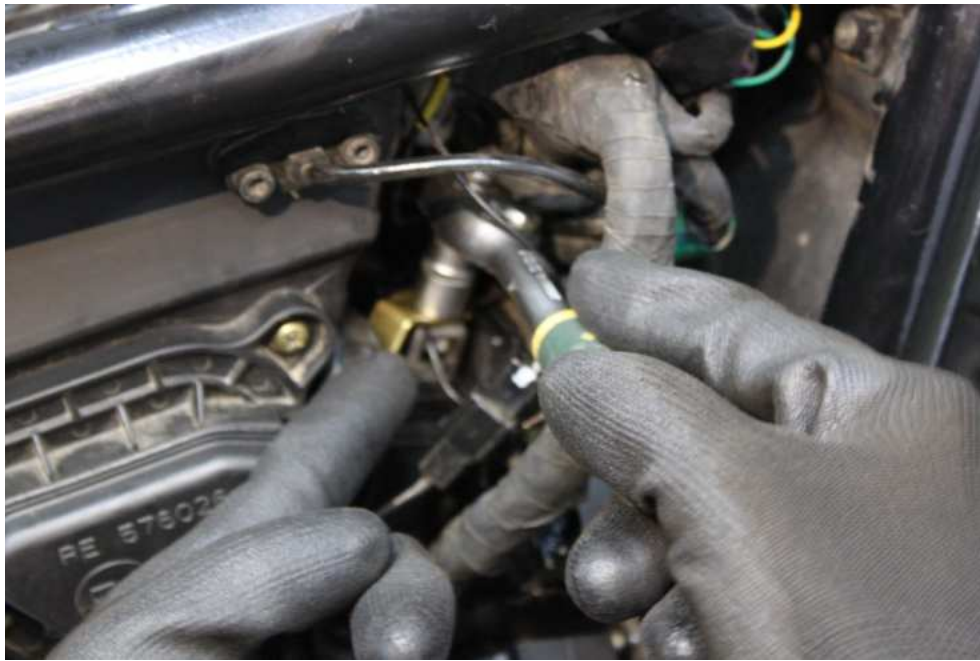


Image 46

4.1.36 For the Handlebar map switch installation, start from the front end. Refer to Image 47



Image 47

4.1.37 Route the connector end of the handlebar map switch as shown in the image. Refer to [Image 48](#)



Image 48

4.1.38 Route the handlebar map switch cable to the rear end of the vehicle. Refer to [Image 49](#)

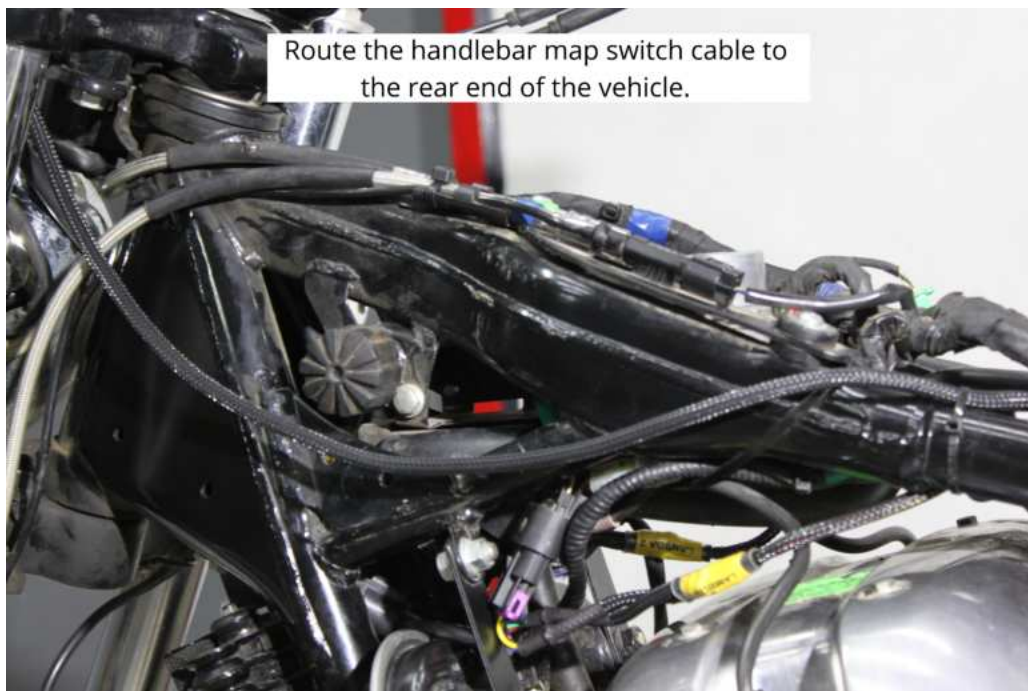


Image 49

4.1.39 Attach the handlebar switch to a suitable position. Refer to **Image 50**



Image 50

4.1.40 Using a 2.5 mm Allen key, tighten the bolts. Refer to **Image 51**



Image 51

4.1.41 Place the FuelX securely under the seat. Refer to **Image 52**



Image 52

4.1.42 Connect the FuelX to the harness. Refer to **Image 53**



Image 53

4.1.43 Connect the handlebar map switch connector to the FuelX connector. Refer to **Image 54**



Image 54

4.1.44 Using the provided nylon tags, secure the FuelX and the harness by attaching them to the frame. Refer to **Image 55**

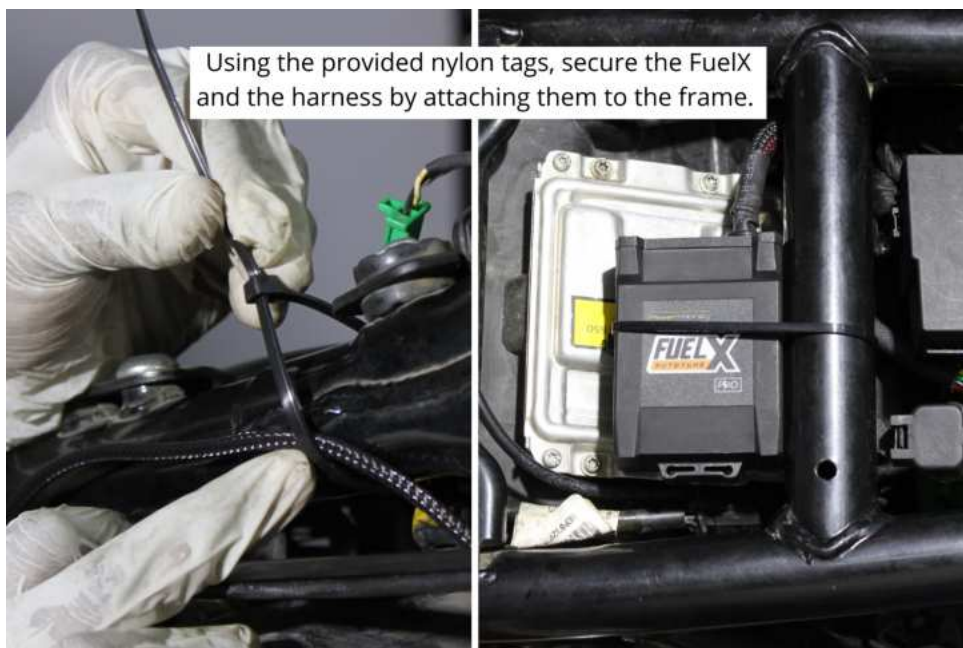


Image 55

5. FuelX Configurations and Settings

For Pro versions, maps on the FuelX can be changed according to the preference of the customer. By just pressing the +/- button on the Handlebar map switch. The **Green LED** on the FuelX Handlebar map switch will help the customer know which map is active. I.e the number of blinks on the handlebar switch indicates the number of maps.

Map No	Map Description
1	LEAN (Less Fuel)
2	
3	STOCK
4	
5	
6	
7	
8	
9	
10	RICH (More Fuel)

Image 5.1

The rider can choose the map according to the fuel enrichment he wants.

The first two maps are lean maps.

Map 3 runs with the stock AFR set by the OEM manufacturer.

Maps 4 to 10 make the AFR richer as the numbers go higher.

For Lite versions, a single autotune map is provided for adjusting the AFR for the best operational parameters.

6. FuelX LEDs

FuelX has LEDs on the module to indicate the operation.



The blinking of the **Red LED** indicates that the Map on the FuelX is being activated. The Red LED starts blinking after the key and the kill switch are on.

The blinking of the **Green LEDs** while the engine is idling indicates that the FuelX is working in sync with the OEM ECU.

The working of both Green and Red LEDs indicates that the FuelX is functioning as intended.