

FuelX Autotune- Yezdi All

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Application information	FuelX
Vehicle	Yezdi
Model	All
Year of manufacture	2022-2025

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 may 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 that the wiring loom is secured away from movable parts or components, which tend to heat up during normal vehicle operation.
- 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.
- This Manual can be used as a generic installation manual for Yezdi Adventure, Scrambler, and Roadster.
- **The installation is shown for a Pre & Post cat Lambda sensor system. If your vehicle has only a Pre-cat Lambda sensor, follow only the respective steps.**

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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.

SL No	Chapter	Page
1	About FuelX and Kit Contents	3
2	Fuel Variants	4
4	FuelX Harness Connectors	5
5	FuelX Installation	7
6	FuelX Configuration and Settings	19
7	FuelX LEDs	20

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

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



Image 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

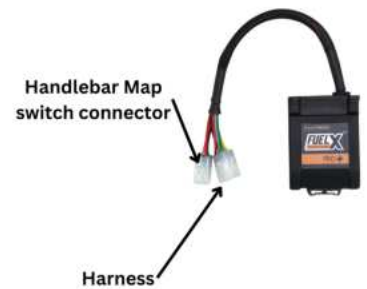


Image 2.3

FuelX Lite

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



Image 2.4

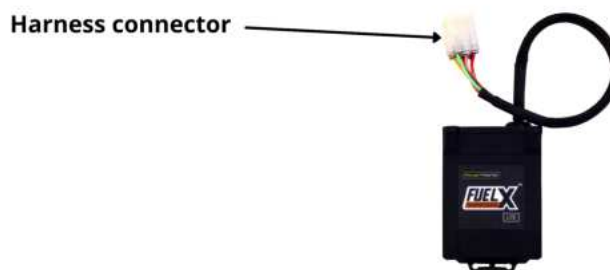


Image 2.5

3. FuelX Harness Connectors

The harness contains

- The Lambda connector (O₂)
Depending on the year of manufacture and model, the harness may contain either only the Pre-cat branch or Pre-cat & Post-cat branches
- FuelX module connector
- Ground/battery negative connector

Examples of FuelX harnesses are given below. Refer to Image 3.1



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.

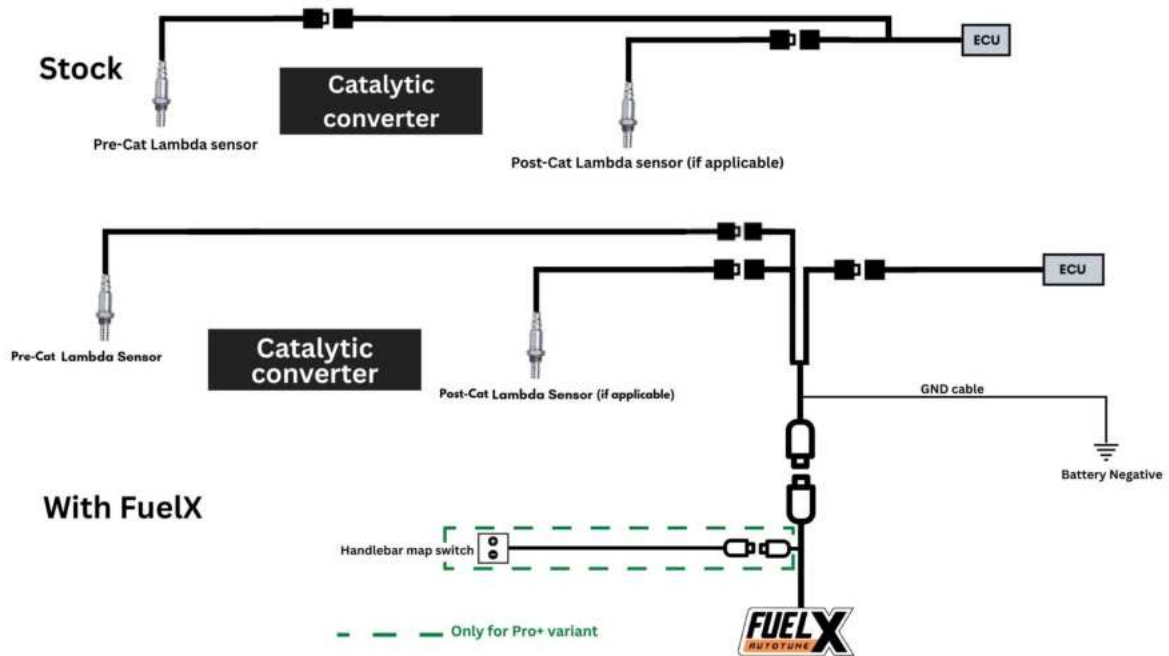


Image 3.3

4. FuelX Installation:

4.1 Removing panels and fairing

Begin at the left side of the bike.

Park the bike using the centre stand on a level surface (Or a paddock stand). Refer to **Image 1**



Image 1

Note the position of the Lambda connectors. Refer to **Image 2**. The installation is shown for a Pre&Post cat Lambda sensor system. If your vehicle has only a Pre-cat Lambda sensor, follow only the respective steps.

Yezdi (2022-2025)

Euro 4/5 (2022-2024)



- Contains only 1 Pre-cat Lambda sensor

Euro 5+ (2025+)



- Contains a Pre-cat Lambda sensor and a Post-cat Lambda sensor
- Also, the vehicle may be denoted as Euro 5b

Image 2

4.1.1 Locate the pillion seat lock and unscrew the pillion seat. Refer to **Image 3**



Image 3

4.1.2 Detach the pillion seat. Refer to **Image 4**



Image 4

4.1.3 Locate and unscrew the rider seat bolt using a 10 mm socket. Refer to **Image 5**



Image 5

4.1.4 Detach the rider seat. Refer to **Image 6**



Image 6

4.1.5 Unscrew the tank bolt using a 6 mm Allen key. Refer to **Image 7**



Image 7

4.1.6 Unscrew the tank front cover bolts using a 5 mm Allen key. Refer to **Image 8**.



Image 8

4.1.7 Detach the tank front cover. Refer to **Image 9**.



Image 9

4.1.8 Lift the rear end of the tank and detach the vacuum hoses. Refer to **Image 10**



Image 10

4.1.9 Detach the Fuel level indicator connector. Refer to **Image 11**.



Image 11

4.1.10 Disconnect the fuel line. Refer to **Image 12**



Image 12

4.1.11 Disconnect the fuel pump connector. Refer to **Image 13**



Image 13

4.1.12 Gently lift the tank and place it safely. Refer to **Image 14**



Image 14

4.1.13 For 2025 models with Pre-cat & Post-cat Lambda sensor connectors, remove the bash plate. Refer to [Image 15](#)

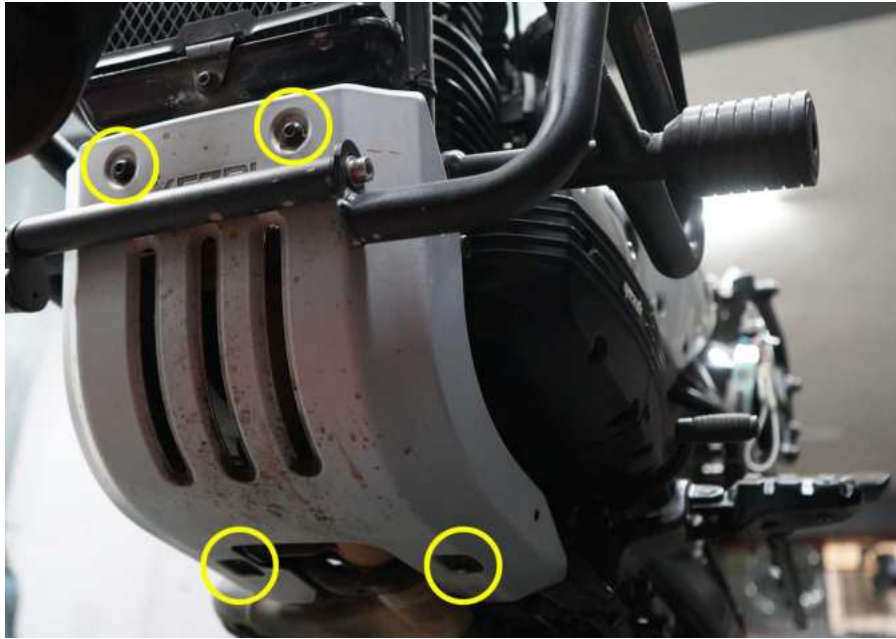


Image 15

4.1.14 Gently detach the bash plate. Refer to [Image 16](#)



Image 16

4.1.15 Route the harness as shown in the image. Refer to [Image 17](#)



Image 17

4.1.16 Route the connectors to their respective positions. Refer to [Image 18](#)



Image 18

4.1.17 Route the Pre-cat Lambda sensor connector branch to the Pre-cat Lambda sensor connector. Refer to **Image 19**



Image 19

4.1.18 Locate the OEM Pre-cat Lambda sensor connector. Refer to **Image 20**.



Image 20

4.1.19 Unplug the OEM Pre-Cat Lambda sensor connector. Refer to **Image 21**.



Image 21

4.1.20 Connect the FuelX female connector to the OEM male connector. Refer to **Image 22**



Image 22

4.1.21 Connect the FuelX male connector to the OEM female connector. Refer to **Image 23**.



Image 23

4.1.22 Refer to the completed view. Refer to **Image 24**.



Image 24

4.1.23 For 2025 models with Post cat Lambda sensor connectors, route the Post-Cat branch to the post cat lambda sensor connector. Refer to **Image 25**



Image 25

4.1.24 Locate the OEM Post-cat Lambda sensor connector. Refer to **Image 26**.



Image 26

4.1.25 Unplug the OEM Post-cat Lambda sensor connector. Refer to [**Image 27**](#).



Image 27

4.1.26 Connect the FuelX Post-cat female connector to the OEM Post-cat male connector. Refer to [**Image 28**](#)



Image 28

4.1.27 Connect the FuelX Post-cat male connector to the OEM Post-cat female connector. Refer to **Image 29**.



Image 29

4.1.28 Refer to the completed view. Refer to **Image 30**.



Image 30

4.1.29 Connect the Ground wire to the vehicle's battery negative terminal. Refer to [Image 31](#).



Image 31

4.1.30 For Pro+ models, connect the Handlebar map switch on the handlebar using the dovetail and using the 2.5 mm Allen key. Refer to [Image 32](#) and [Image 33](#)



Image 32

4.1.31 Refer to **Image 33**



Image 33

4.1.32 Route the Handlebar map switch wire as shown in the image below. Refer to **Image 34**



Image 34

4.1.33. For pro models, connect the handlebar map switch connector to the matching connector on the FuelX Pro+ module. Refer to **Image 35**



Image 35

4.1.34 Connect the main connector on the harness to the matching connector on the FuelX module. Refer to **Image 36**



Image 36

4.1.35 Place the FuelX module securely inside the glove compartment. Refer to **Image 37**



Image 37

4.1.36 Use zip ties to secure the harness wherever necessary. Attach the panels back. The installation is complete, and you can use the FuelX.

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 through 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 FuelX is functioning as intended.