





## Levociraptor - Installation Manual



**Note:** You are the only responsible for any changes you make or attempt to make to your e-bike.

The unlock of the speed limiter in public places such as streets, squares and cycle paths is FORBIDDEN BY THE LAW. Therefore it is possible to activate the unlock in private circumscribed places such as circuits, tracks and private properties. Mounting the device may void the factory warranty of the bicycle.

The manufacturer declines all responsibility for any damage caused to pedal assisted bicycles on which the Levociraptor system is mounted. The manufacturer declines all responsibility for damage to persons or things caused or in any way linked to the use of Levociraptor.

In this short document I will show how to mount the Levociraptor device able to change the wheel size on the Levo 2019, especially for the 2019 models which have TCU firmware version 2.019, 2.025, 2.026, 3.019, 3.025, 3.026, 3.034, 3.037, 5.032.

1	Switch off the bike and disconnect the battery from the engine	
2	Remove the display on the down tube (called TCU)	
3	Disconnect the green connector of the TCU and connect the Levociraptor device. There is only one possibility to connect the connectors.	
4	Apply the adhesive with the Velcro on the TCU and attach the device to the Velcro attached (if it is possible). Sometime there is no space or is not so easy to install Levociraptor under the TCU with the Velcro. If this, leave the Levociraptor inside the bike tube without the Velcro.	

5	<p>With a screwdriver, turn the selector and select the new wheel circumference by positioning the selector arrow following the table below.</p> <table><thead><tr><th>Selector</th><th>Wheel size</th><th>BLEvo multiplier</th><th>Speed limit</th></tr></thead><tbody><tr><td>0</td><td>No changes</td><td>x 1</td><td></td></tr><tr><td>1</td><td>2300 mm</td><td>x 1</td><td>25 km/h</td></tr><tr><td>2</td><td>2000 mm</td><td>x 1</td><td>29 km/h</td></tr><tr><td>3</td><td>1333 mm</td><td>x 1.5</td><td>43 km/h</td></tr><tr><td>4</td><td>1000 mm</td><td>x 2.0</td><td>58 km/h</td></tr><tr><td>5</td><td>800 mm</td><td>x 2.5</td><td>72 km/h</td></tr><tr><td>6</td><td>667 mm</td><td>x 3.0</td><td>86 km/h</td></tr></tbody></table> <table><thead><tr><th>Selector</th><th>Wheel size</th><th>BLEvo multiplier</th><th>Speed limit</th></tr></thead><tbody><tr><td>0</td><td>No changes</td><td>x 1</td><td></td></tr><tr><td>1</td><td>90,55 in</td><td>x 1</td><td>16 mph</td></tr><tr><td>2</td><td>78,74 in</td><td>x 1</td><td>18 mph</td></tr><tr><td>3</td><td>52,48 in</td><td>x 1.5</td><td>27 mph</td></tr><tr><td>4</td><td>39,37 in</td><td>x 2.0</td><td>36 mph</td></tr><tr><td>5</td><td>31,50 in</td><td>x 2.5</td><td>45 mph</td></tr><tr><td>6</td><td>26,26 in</td><td>x 3.0</td><td>54 mph</td></tr></tbody></table>	Selector	Wheel size	BLEvo multiplier	Speed limit	0	No changes	x 1		1	2300 mm	x 1	25 km/h	2	2000 mm	x 1	29 km/h	3	1333 mm	x 1.5	43 km/h	4	1000 mm	x 2.0	58 km/h	5	800 mm	x 2.5	72 km/h	6	667 mm	x 3.0	86 km/h	Selector	Wheel size	BLEvo multiplier	Speed limit	0	No changes	x 1		1	90,55 in	x 1	16 mph	2	78,74 in	x 1	18 mph	3	52,48 in	x 1.5	27 mph	4	39,37 in	x 2.0	36 mph	5	31,50 in	x 2.5	45 mph	6	26,26 in	x 3.0	54 mph	 <p>After selection, please tape over the selector to prevent water/moisture entering the module.</p> 
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6	Insert the cables into the bike tube and close the TCU																																																																	
7	Connect the battery cable																																																																	
8	Turn the bike on and off <b>2 times</b>																																																																	
9	<p>(Optional) Configure the speed multiplier (Speed x) in BLEvo as selected in the table in order to have the correct display of the KMs done and the speed. The value of the speed limit will be automatically increased according to the selected speed multiplier. At the end, configure the real wheel size.</p>	<div><div>Km/h 25.0</div><div><div></div></div><div>-</div><div>+</div></div> <div><div>Speed x 1.0</div><div><div></div></div><div>-</div><div>+</div></div> <div><div>To be used only if a device that changes the speed sensor data is installed</div></div> <div><div>Real wheel 2170 mm</div><div><div></div></div><div>-</div><div>+</div></div>																																																																

**Note 1:** To change the wheel size value once installed, just turn off the TCU, remove it from the down tube and change the value of the selector.

**Note 2:** Before returning the bike to service, set the selector to position 1, turn the bike off and on 2 times and remove the Levociraptor device.

**Note 3:** From position 3 on the selector, Mission Control will always display 2000mm as a wheel size even if a lower value is chosen. This behavior is correct.

**Note 4:** If the value set by the selector seems to have no effect on the speed limit change, try pressing the TCU on/off button for 10 seconds and then try again