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Modifying an eZee Bike's Operating Mode (New version models only)

IMPORTANT WARNING – Please Read First!

Performing any of the modifications below can result in your bike being none UK road or cycle path legal. Carrying out any of these modifications is done at your own risk and is strictly for off-road private land use ONLY.

Always remove the battery before starting any work! It will make the bike lighter and avoid electrical shorts!

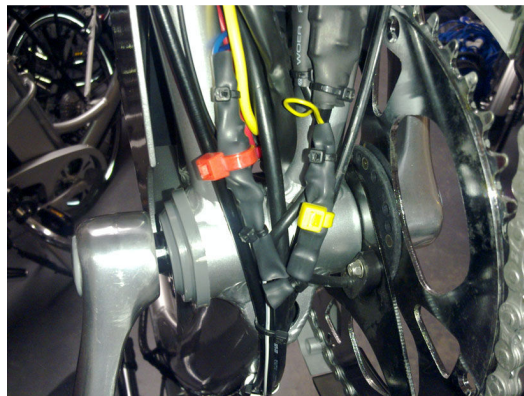
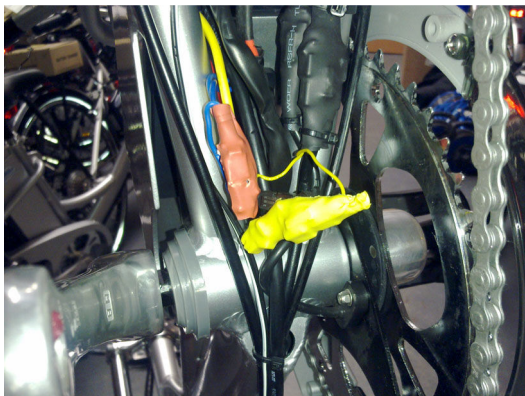
All new eZee models (except Sprint Eco and Liv) have two operating mode options that are modifiable by altering specific wiring connections. Modes of operation that can be altered are as follows:

1. Manual throttle mode or pedal sense mode
2. Restricted mode or derestricted mode

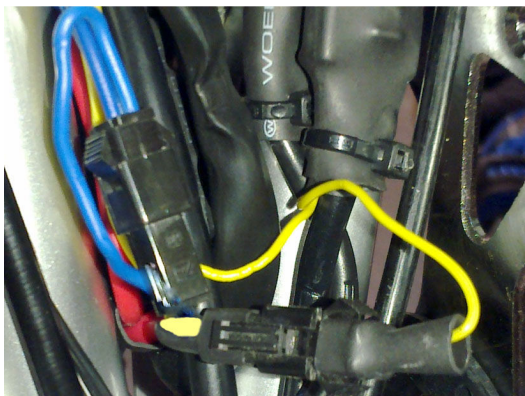
By default the bike will be UK road legal - pedal sense mode enabled and restricted mode enabled.

To modify the wiring, it's easiest with the bike clamped to a work-stand or possibly lay on its back, taking care not to damage any handlebar components.

Located beneath the controller, underneath the bike and behind the bottom of the battery and crank, there will be the main wiring loom. You will need to free some of the wires by cutting the main cable ties securing them to the bike frame. From here you will find a pair of yellow wires with a yellow sleeve and a pair of blue wires with a red sleeve. Sometimes the sleeving may be black, but will have indentifying coloured cable ties instead.



To modify the mode of the bike, you will need to locate the appropriate wires and connectors (explained below) and very carefully remove / cut away the sleeving to expose a small black 'JST' connector - this connector will either need to be unplugged or plugged in to change the operating mode. (There is a small latch on one side of each connector that will need to be pressed to undo / unlock the connector from its mating half).



1. Manual throttle mode or pedal sense mode:

The yellow sleeved or yellow cable tied connector is used to select whether the bike is in manual throttle only mode or pedal sense mode.

Manual throttle mode: this mode means the bike can be ridden with electric assistance without having to pedal by using the throttle only.

Pedal sense mode: this mode means the pedals have to be turning for the throttle to work.

By default the bike will be in pedal sense mode, so to change to throttle only manual mode you'll need to PLUG together the connector covered in a yellow sleeve or cable tie.

2. Restricted mode or derestricted mode:

The red sleeved or red cable tied connector is used to select whether the bike is in 'restricted' mode or 'derestricted' mode.

Restricted mode: this mode means the bike is UK road legal to conform to current electric bike assisted speed limit law and is most economical on the battery.

Derestricted mode: this mode means the bike will be capable of exceeding the 15.5mph legal assist limit and is strictly for off-road private land use ONLY.

Please note that in 'derestricted' mode the bike will consume quite a lot more battery power and can reduce general battery life expectancy over time.

By default the bike will be in 'restricted' mode, so to change to 'derestricted' mode you'll need to UNPLUG the connector covered in a red sleeve or cable tie.

Once either modification is complete, you'll need to protect the connector from the elements - ideally you can cover the connector with similar rubber heat-shrink style sleeving or if not, plenty of PVC insulating tape. The wires will then need to be neatly and securely fixed back into place using cable ties.

Example: a restricted road legal eZee Chopper will give electric assistance up to around 13mph, whereas a derestricted eZee Chopper will give electric assistance up to 17mph. Speeds will vary depending on bike model and wheel size.

Contact OnBike for further information

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