












# EBO VLCD-5 for E-Bikes with Torque Sensor Reference Manual



<p><b>Functions Display:</b></p> <p>To speedometer, odometer, pedal assist modes, battery capacity indicator, trip distance, average speed, maximum speed, run time, malfunctions, brake indicator and backlight display.</p>	
<p><b>Backlight</b></p> <ul style="list-style-type: none"> <li>• Press Power button for 1 second to turn ON and OFF</li> </ul>	
<p><b>Battery Capacity Indicator</b></p>	
<p><b>Speedometer, Maximum Speed and Average Speed:</b></p> <p>The LCD has 2 ways tracking speed depending on the system.</p> <ol style="list-style-type: none"> <li>1. Integrated in the Motor/Controller</li> <li>2. Non-Integrated with sensor attached to the chain stay and magnet attached on a spoke.</li> </ol>	
<p><b>Pedal Assist Modes:</b></p> <ul style="list-style-type: none"> <li>• OFF</li> <li>• ECO</li> <li>• TOUR</li> <li>• SPEED</li> <li>• TURBO</li> </ul>	
<p>Total distance (ODO), trip distance (TRIP), average speed (AVG), total distance (DISTANCE) and run time (TIME)</p> <p>(ODO) and (TRIP) can be reset by pressing <b>i</b> for 2 seconds. You can toggle between (AVG) and (TIME) by short-pressing <b>i</b> button.</p>	

<p>Malfunction/Status Display</p> <ul style="list-style-type: none"> <li>• <b>ERR-02</b> = Motor Hall Fault/Motor Short Circuit</li> <li>• <b>ERR-03</b> = Controller Failure</li> <li>• <b>ERR-04</b> = Turn ON Fault</li> <li>• <b>EER-06</b> = No Motor Signal</li> <li>• <b>ERR-08</b> = Low Battery Alarm</li> </ul>	
<p><b>Access to advanced parameters settings:</b></p> <p>Press <b>⏏</b> and <b>POWER</b> buttons simultaneously for 4 seconds to access advanced parameter settings. You can change the values of the predefined settings with the <b>+</b> and <b>-</b> buttons. You will need to scroll through (ODO), (TRIP), (AVG), (DISTANCE) and (TIME) before entering into the advanced parameters.</p>	
<p><b>Settings are shown below (press <b>⏏</b> button to toggle between the parameters)</b></p> <ul style="list-style-type: none"> <li>• <b>d1 (Wheel Diameter)</b> = 14" – 30" and 700</li> <li>• <b>cc (Quantity of Magnets)</b> = 1 – 12 (Default 1)</li> <li>• <b>00.0 (Units of Measurement)</b> = km/h or mile/h</li> <li>• <b>06.0 km/h (Walk Mode)</b> = ON or OFF</li> <li>• <b>Sd (Speed Limit)</b> = 15 – 45 (Note, maximum speed limit must be ON for this setting)</li> <li>• <b>A (Power Ampere Adjustment)</b> = 6 – 32 (Default 25)</li> <li>• <b>η (Mode - EUR or JAP)</b> = EUR</li> <li>• <b>25.0 km/h (Maximum Speed Limit)</b> = ON or OFF</li> </ul>	
<p>Short-press <b>POWER</b> button to save current value.</p>	
<p>To return to normal operating, wait for 4 seconds.</p>	

## Technical specifications:

### Technical aspects:

Item : VLCD-5

Voltage options:	DC24V- 36V- 48V
Maximum voltage:	70mA(11V) 32mA(50V)
Type Display:	21*4 segment LCD
Operating temperature:	-20C - +70C
Display light:	White LED mode, brightness:200cd/m2

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