Customer Instructions

**Programming Software And Parameters IDbike FOC200**

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**Revision History**

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| --- | --- | --- |
| Revision | Autor | Comments |
| **19 March 2019** | **Jeffrey** | **Draft** |
| **19 June 2019** | **Jeffrey** | **Improved after review** |
| **10 January 2020** | **Jeffrey** | **Translation to English**  **Updated manual after optimizing programming the controller**  **Added short explanation of the parameter file**  **Added fault state where the ControllerProgrammer disappears** |
| **15 January 2020** | **Jeffrey** | **Revision after customer feedback** |
| **16 January 2020** | **Jeffrey** | **Modified to programming with external power supply** |

# Setup and tools

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| --- | --- | --- |
| **Step** | **Item** | **File/Illustration** |
| 1.1 | Windows PC/Laptop |  |
| 1.2 | IDbike software and files:   1. Download the zip file received from IDbike to your computer 2. Extract the folder to your desktop or main drive (The programming software cannot run from a network location) |  |
| 1.3 | IDbike LIN USB interface   * Upload controller software * Upload/Download parameter files * Upload display software |  |
| 1.4 | IDbike FOC200 LIN Controller Connectors Overview |  |

# Uploading controller software to the IDbike FOC200

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| --- | --- | --- |
| **ID** | **Steps** | **Illustration** |
| 2.1  Preparing Computer | 1. Connect the LIN interface to a USB port 2. Go to the folder: “Shortcuts” and open the “ControllerProgrammer” 3. Click “Open” (Red arrow) 4. Navigate to the folder: “Software and Parameter Files” 5. Select the software file (.rom) to upload to the controller 6. Do **not** click Program |  |
| 2.2  Preparing Bike | 1. Disconnect the controller from its power source (Switch off battery or remove battery) 2. Locate the LIN connector coming from the controller |  |
| 2.3  Uploading software | 1. Click “Program” 2. The message: “Linking controller Please restart controller now” should appear 3. Connect the LIN interface to the LIN connector coming from the controller 4. The uploading should start with erasing and writing block 0. If the uploading does not start go to step 5 5. Now connect to controller to a power source e.g. battery. The uploading should start |  |
| 2.5  Programming another controller | 1. Disconnect the programmed controller from the LIN interface 2. Connect the next controller to the LIN interface 3. Click “Program” 4. Connect the controller to a power source |  |

# Uploading and Downloading Bike Parameter Files

The parameter file contains the settings and support programs that can be edited in the display. The file can be uploaded to the controller to configure the bike. It is also possible to retrieve the configuration from the controller after modifying the settings or support programs and store them in a file.

It is not possible to edit the file itself to change parameter settings. Settings can only be changed with the display.

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| --- | --- | --- |
| **ID** | **Steps** | **Illustration** |
| 3.1  Uploading parameter files to the controller | 1. Go to the folder: “Shortcuts” and open the “profile handler e-bike” 2. If the shortcut does not work create a new one:    1. Open the folder: “Application Files”    2. Open the folder: “ProfileHandler”    3. Right click on: “profile handler e-bike.exe” and Click on “Create shortcut”    4. Move the shortcut to the folder: “Shortcuts” 3. Click “File” -> “Load file” 4. Navigate to the folder: “Software and Parameter Files” 5. Select the parameter file (.ste) to upload to the controller 6. Connect the LIN interface to the computer and the controller as described in: *3. Uploading controller software to the IDbike FOC200* 7. When the “Controller state” switches to “connected”, Click “File” -> “Store in controller” 8. Uploading is completed when the green progress bar disappears 9. Repeat steps 5 & 6 to program additional controllers |  |
| 3.2  Downloading parameter files from the controller | 1. Open the “profile handler e-bike” 2. Click “File” -> “Retrieve from controller” 3. Click “File” -> “Save file as” | This parameter file can be used to program other bikes, store custom settings profiles, recover parameters. |

# Troubleshooting

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Application** | **Fault** | **Fix** |
| 1 | Controller Programmer | Error: Serial port can't find | * The LIN interface is not connected to the USB port of the computer, or * Open the ControllerProgrammer as administrator because it does not have permission to search for the correct COM port |
| 2 | Controller Programmer | Error: Serial can't open | * Close any other application using the LIN interface (Like the profile handler e-bike) |
| 3 | Controller Programmer | The application disappears after clicking program | * Open the ControllerProgrammer as administrator |
| 4 | profile handler e-bike | Stays in Disconnected state | * Connect the controller to a power source (battery) and the LIN interface |