



HOW TO CHANGE THE CONTROLLER

1. WHAT TOOLS DO I NEED?

- Crankarm removal tool
- Bottom bracket tool 16 notch (Shimano Hollowtech)
- Tool for bottom bracket inserts (ISIS)
- Torque wrench
- 2mm hex wrench

2. REMOVAL

- 1 Place the bike in the bike stand so you have the access to bottom bracket area.
- 2 Follow the procedure described in [HOW TO CHANGE THE BOTTOM BRACKET](#).
- 3 After removing the bottom bracket gently slide the controller from the downtube.

Note: The controller is not held by any bolts so a little wiggling motion will help for getting it out.

- 4 Unplug the battery fuse (15A) disarming the system.
- 5 After removing the controller from downtube unplug all the cables in the following order:
 - Battery
 - Motor
 - Charging port
 - Lamp (procedure described in [HOW TO REPLACE THE LAMP](#))
 - Display (procedure described in [HOW TO CHANGE THE DISPLAY](#))
- 6 Remove the motor cable from the protective sleeve

3. INSTALLATION

- 1 After inserting the controller into downtube plug all the cables in following order:
 - Display (procedure described in [HOW TO CHANGE THE DISPLAY](#))
 - Lamp (procedure described in [HOW TO REPLACE THE LAMP](#))
 - Charging port

- Motor
 - Battery
- 2 Plug the battery fuse (15A) arming the system.
 - 3 After plugging all the cables and arming the system check the functioning of:
 - Display
 - Lamps
 - Walk assist
 - Charging
 - 4 Gently push in the controller into downtube without pinching the cables.
 - 5 Push the excess cables around controller.
 - 6 Guide the motor and lamp cable thru protective sleeve.
 - 7 Install the bottom bracket (procedure described in [HOW TO CHANGE THE BOTTOM BRACKET](#)).
 - 8 Install the downtube cover.
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In case you have further questions, please don't hesitate to contact us. Your contact persons are:

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