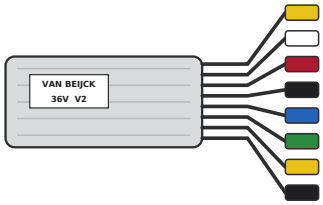
INSTALLATION GUIDE

Fitting and connecting the controller



The controller is the 'brain' of your e-bike. It goes into the controller box of the Endurance battery rail.

In the box

- Controller

What you need

- Screwdriver or bit for the Torx screws
- Cable ties

Safety first
Always work **without power**: disconnect the battery and only reconnect it once all other cables are properly connected.

Step by step

1 Open the controller box

Undo the four Torx screws on the underside of the controller box.

2 Feed the cables in

Feed all cables in through the hole on the underside of the case. Put a cable tie around the bundle directly above the hole: it stops the cables from sliding down or being pulled out.

3 Connect the cables

Connect all plugs according to the wiring diagram below. Push each plug fully together and never force it. Coil up any surplus cable neatly.

Battery last
Only connect the battery (yellow XT60 plug) once all other cables are properly connected.

4 Fit the controller and close the box

Lay the controller in the bottom of the box and fold the surplus cable neatly on top.

Do not trap anything
Check that the lid closes properly, no cables are trapped and nothing lies in front of the screw holes.

Wiring diagram Van Beijck V2 controller

Applies to the controllers for the Slim, Lyra and Dewi displays (V2 and V3).

Connection	Plug	Wire colours
Display (LCD or LED)	White	Yellow – green – black – blue – red
Brake sensors (2×)	White	Blue – yellow – red
Throttle	Black	White – black – red
Pedal sensor (PAS)	Black	Red – green – yellow

Connection	Plug	Wire colours
Rear light with brake light	Yellow (3-pin)	Red – black – white
Headlight (6 V, existing)	Black	White – black
Motor Hall sensor	Blue	Blue – green – yellow
Speed sensor	Dark green	White – red – black
Battery (XT60)	Yellow	Red – black
Motor phases	–	Blue / green / yellow (thick)

Older systems have a white 2-pin plug for the rear light, without brake light function.

Check after fitting

- ☐ All plugs pushed fully together
- ☐ Lid closes without trapping cables
- ☐ Strain relief (cable tie) above the cable entry
- ☐ Display switches on after connecting the battery