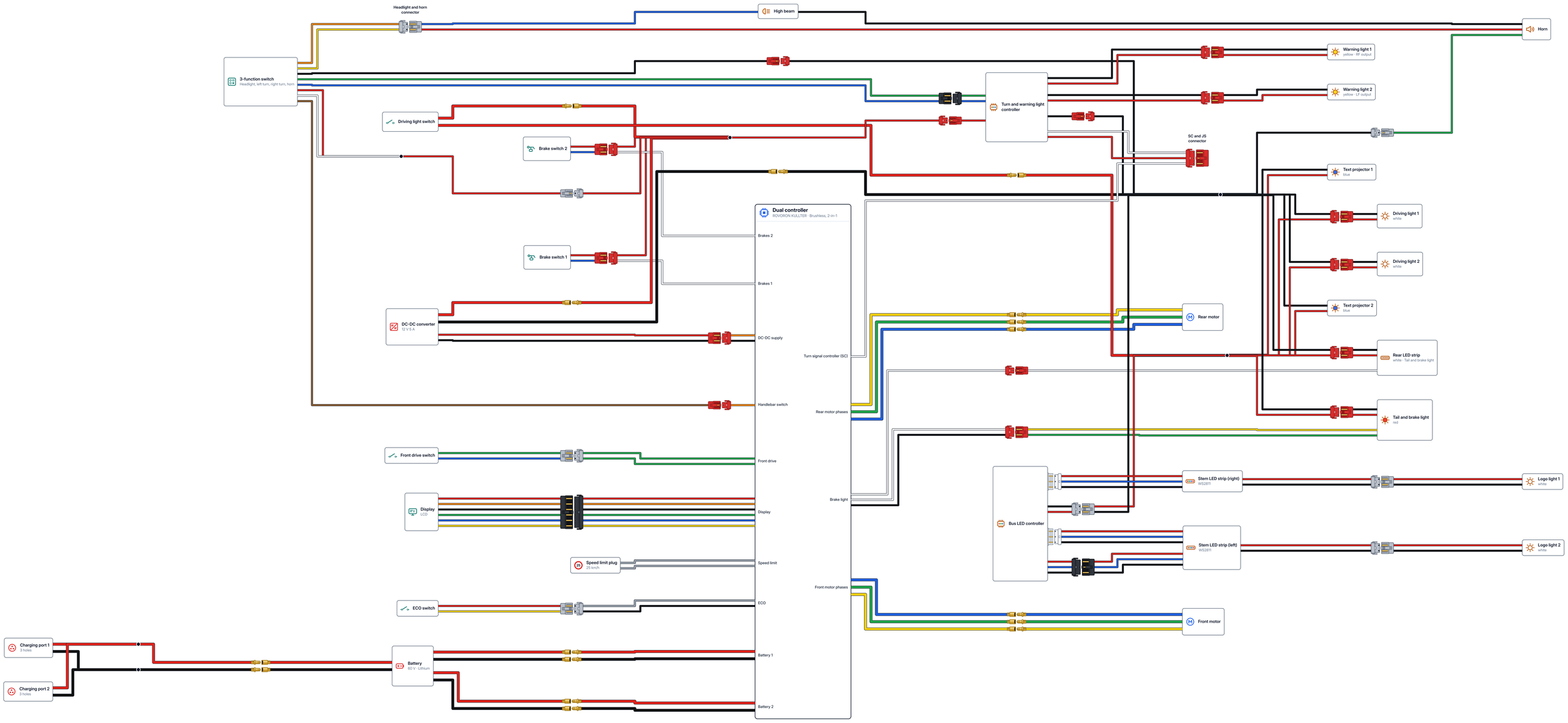
WIRING DIAGRAM

Rovoron Kullter | 60 V

FOHZSHOP.FR



WIRE COLOURS

- Black BK
- Blue BU
- Brown BN
- Green GN
- Grey GY
- Orange OG
- Red RD
- White WH
- Yellow YE

CONNECTORS

Gold pins: male side. Dark sockets: female side.

- JST SM plug
- Bullet connectors
- Board header
- Splice: wires are joined at this point

NOTES

1. Page 1 of the original document. Page 2 shows the Luxury version, redrawn separately.
2. The DC-DC 12 V goes through a Y plug: one branch to the driving light main switch, the other to the brake switches, the turn signal controller and the switch. Through a plug splice, the main switch feeds the text lights, the driving lights, both rear lights and the bus LED controller. Their grounds, and those of the switch, the horn and the turn signal controller, meet on another plug splice wired to the DC-DC OUT− output.
3. The original shows no throttle.
4. At the power plug of the bus LED controller the colours cross over: the black on pin 1 turns red towards the 12 V, the red on pin 2 turns black towards ground. Kept as drawn.
5. The output of the left stem strip (U−, OUT, U+) goes back to the 3-pin plug of the bus LED controller. The two bottom sockets of this controller stay free.
6. At the switch, three wires change colour where they leave it: yellow then orange, orange then yellow, light orange then light brown. They are redrawn with the cable colour. The light brown turns orange at the red plug before the controller.
7. The headlight + leaves red then turns blue, without a connector. The headlight and horn − are joined by a thin wire, then go to ground as green.
8. The yellow warning lights are wired to the RF and LF outputs of the turn signal controller. The RR and LR outputs are not wired. The JS input only goes to its connector, the matching pin has no wire.
9. The rear strip has two inputs marked 12V: the red one, wired to the lights 12 V, and the white one, wired to the controller with the brake lights. Its LEDs are marked "white".
10. The original does not say on which side each brake switch is. They are numbered 1 and 2.
11. The 3-hole charging ports only use pins 1 (red) and 3 (black). A lone black sleeve without wires is drawn at the top of the original.

DOCUMENT

Based on the manufacturer diagram "Schéma électrique ROVORON Kultter" dated 22 March 2022.

Redrawn by FOhzShop on 1 November 2026.

Disconnect the battery before any work.

CONNECTOR PINOUT

Connector	To	Wire
Dual controller Front motor phases	**Front motor** Connectors: Bullet connectors	Blue · Motor phase Green · Motor phase Yellow · Motor phase
Dual controller Rear motor phases	**Rear motor** Connectors: Bullet connectors	Yellow · Motor phase Green · Motor phase Blue · Motor phase
Dual controller DC-DC supply	**DC-DC converter** Input Connectors: JST SM plug	2 → 2 · Orange, then red after the connector · IN+ 1 → 1 · Black · IN−
Battery Output 1	**Dual controller** Battery 1 Connectors: Bullet connectors	Red Black
Battery Output 2	**Dual controller** Battery 2 Connectors: Bullet connectors	Red Black
Charging port 1	**Splice**	1 · Red 3 · Black
Charging port 2	**Splice**	1 · Red 3 · Black
Splice	**Battery** Charge Connectors: Bullet connectors	Red Black
Display	**Dual controller** Display Connectors: JST SM plug	6 → 6 · Red 5 → 5 · Orange 4 → 4 · Black 3 → 3 · Green 2 → 2 · Blue 1 → 1 · Yellow
Speed limit plug	**Dual controller** Speed limit	Grey Grey
ECO switch	**Dual controller** ECO Connectors: JST SM plug	2 → 2 · Red, then grey after the connector 1 → 1 · Yellow, then black after the connector

Connector	To	Wire
Front drive switch	**Dual controller** Front drive Connectors: JST SM plug	2 → 2 · Green 1 → 1 · Blue, then green after the connector
Brake switch 1	**Dual controller** Brakes 1 Connectors: JST SM plug	2 → 2 · Blue, then white after the connector
Brake switch 1	**Splice** Connectors: JST SM plug	1 → 1 · Red
Brake switch 2	**Dual controller** Brakes 2 Connectors: JST SM plug	2 → 2 · Blue, then white after the connector
Brake switch 2	**Splice** Connectors: JST SM plug	1 → 1 · Red
DC-DC converter Output	**Splice** Connectors: Bullet connectors	Red · +12 V
DC-DC converter Output	**Splice** Connectors: Bullet connectors	Black · Ground
Splice	**Driving light switch** Connectors: Bullet connectors	Red
Splice	**Splice** Connectors: JST SM plug	2 → 2 · Red
Splice	**Turn and warning light controller** Power Connectors: JST SM plug	2 → 2 · Red · Supply +
Driving light switch	**Splice** Connectors: Bullet connectors	Red
Splice	**Text projector 1**	Red · LED +
Splice	**Text projector 2**	Red · LED +
Splice	**Turn and warning light controller** Power Connectors: JST SM plug	1 → 1 · Black · Supply −

Connector	To	Wire
3-function switch	**Headlight and horn connector**	→ 1 · Orange → 2 · Yellow
3-function switch	**Splice** Connectors: JST SM plug	1 → 1 · Black
3-function switch	**Dual controller** Handlebar switch Connectors: JST SM plug	2 → 2 · Brown, then orange after the connector
3-function switch	**Turn and warning light controller** Turn signals Connectors: JST SM plug	3 → 3 · Green · Right turn signal 1 → 1 · Blue · Left turn signal
Splice	**3-function switch**	Red White
Headlight and horn connector	**High beam**	1 · Blue · LED +
Headlight and horn connector	**Horn**	2 · Red · +
High beam	**Horn**	Black · LED −
Horn	**Splice** Connectors: JST SM plug	1 → 1 · Green, then black after the connector · −
Turn and warning light controller Signal	**SC and JS connector**	→ 2 · White · SC → 1 · Red · JS
Turn and warning light controller	**Warning light 1** Connectors: JST SM plug	1 → 1 · Black · LED − 2 → 2 · Red · LED +
Turn and warning light controller	**Warning light 2** Connectors: JST SM plug	1 → 1 · Black · LED − 2 → 2 · Red · LED +
SC and JS connector	**Dual controller** Turn signal controller (SC)	2 · White
Bus LED controller Power	**Splice** Connectors: JST SM plug	1 → 1 · Black, then red after the connector
Bus LED controller Power	**Splice** Connectors: JST SM plug	2 → 2 · Red, then black after the connector
Bus LED controller RGB output 1	**Stem LED strip (left)** Input Connectors: Board header	Red · +12 V Blue · LED data Black · Ground

Connector	To	Wire
Bus LED controller RGB output 2	**Stem LED strip (right)** Input Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Stem LED strip (left) Output	**Bus LED controller** Input Connectors: JST SM plug	1 → 1 · Red · LED + 2 → 2 · Blue · LED data 3 → 3 · Black · LED −
Stem LED strip (left) Logo	**Logo light 2** Connectors: JST SM plug	2 → 2 · Red · +12 V 1 → 1 · Black · Ground
Stem LED strip (right) Logo	**Logo light 1** Connectors: JST SM plug	2 → 2 · Red · +12 V 1 → 1 · Black · Ground
Text projector 1	**Splice**	Black · LED −
Text projector 2	**Splice**	Black · LED −
Driving light 1	**Splice** Connectors: JST SM plug	2 → 2 · Red
Driving light 1	**Splice** Connectors: JST SM plug	1 → 1 · Black
Driving light 2	**Splice** Connectors: JST SM plug	2 → 2 · Red
Driving light 2	**Splice** Connectors: JST SM plug	1 → 1 · Black
Rear LED strip Power	**Splice** Connectors: JST SM plug	2 → 2 · Red · +12 V
Rear LED strip Power	**Splice** Connectors: JST SM plug	1 → 1 · Black · Ground
Rear LED strip Brake light	**Dual controller** Brake light Connectors: JST SM plug	2 → 2 · White · +12 V
Tail and brake light Power	**Splice** Connectors: JST SM plug	2 → 2 · Red · LED +
Tail and brake light Power	**Splice** Connectors: JST SM plug	1 → 1 · Black · LED −
Tail and brake light Brake light	**Dual controller** Brake light Connectors: JST SM plug	2 → 2 · Yellow, then white after the connector · LED + 1 → 1 · Green, then black after the connector · LED −