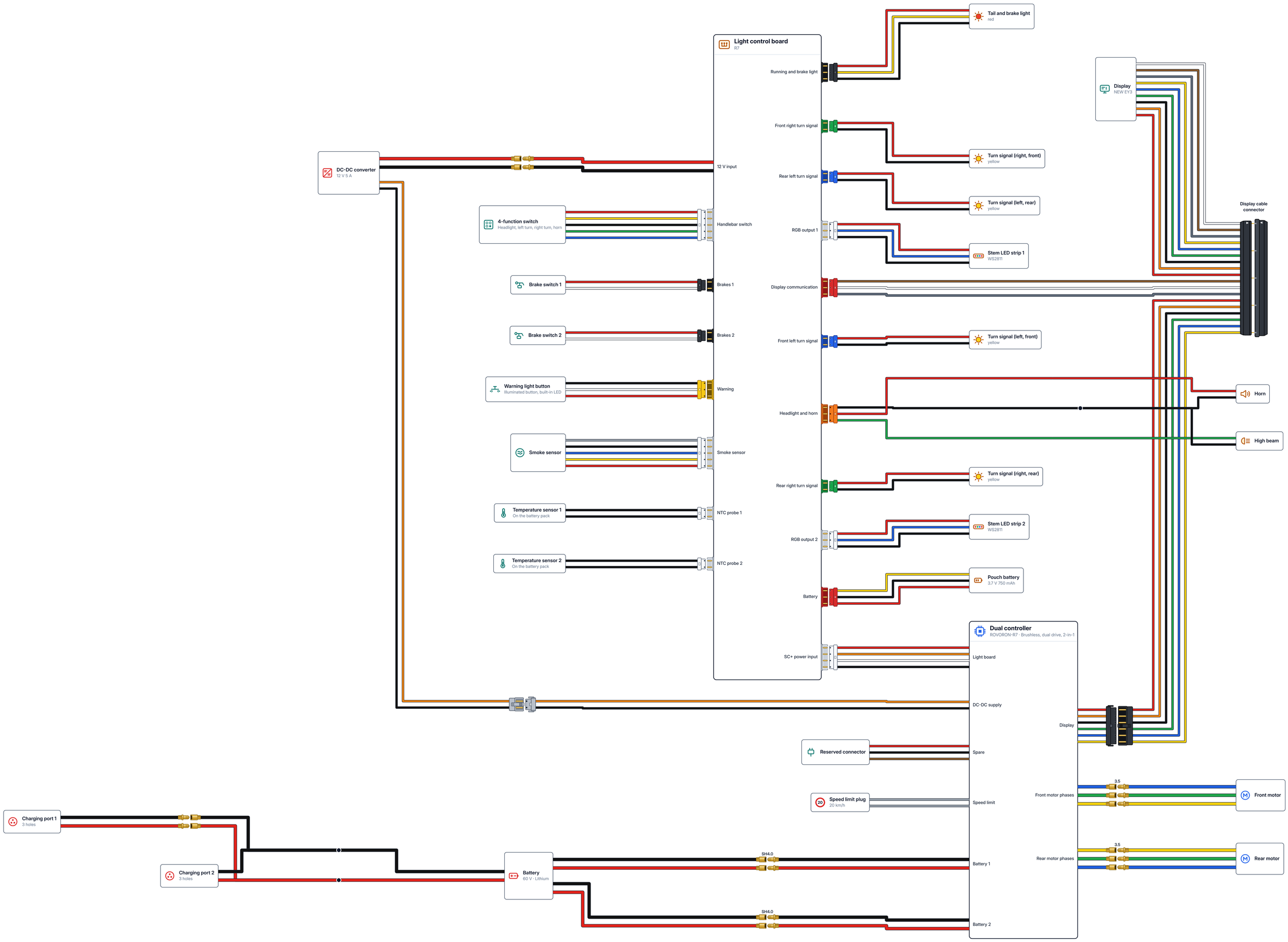
WIRING DIAGRAM

Rovoron R7 | 60 V

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WIRE COLOURS

- Black BK
- Colour not shown
- Orange OG
- Yellow YE
- Blue BU
- Green GN
- Red RD
- Brown BN
- Grey GY
- White WH

CONNECTORS

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

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

NOTES

1. The original does not say which of the two stem RGB strips is on the left, nor on which side each brake switch is. They are numbered 1 and 2.
2. A few wires change colour where they leave a part, without a connector. Orange then red at the brake switch, red then green at the high beam +, red then orange at the DC-DC IN+ input, black then transparent on the ground wire between the display and the board. They are redrawn with the cable colour.
3. The colour code has no transparent. The transparent display wire appears in colour not shown.
4. On the tail and brake light, red is the +. Yellow (DL−) and black (SCL−) are both marked − on the light side.
5. The spare connector has 4 pins, 3 of them wired. On the connector side its wires are drawn pale grey, their colours are only given on the controller side.
6. The 3-hole charging ports only use pins 1 (red) and 3 (black). The 4-function switch plug has 6 pins, pin 1 has no wire.

DOCUMENT

Based on the manufacturer diagram “ROVORON R7 - R7 PRO Schéma électrique” dated 3 November 2025.

Redrawn by FõhzShop on 31 October 2026.

Disconnect the battery before any work.

CONNECTOR PINOUT

Connector	To	Wire
Light control board Headlight and horn	**Splice** Connectors: Board header	Black Red Green
Light control board SC+ power input	**Dual controller** Light board Connectors: Board header	Red · 60 V Orange · VDD White · SC Black · Ground
Dual controller DC-DC supply	**DC-DC converter** Input Connectors: JST SM plug	Orange · IN+ Black · IN−
Dual controller Front motor phases	**Front motor** Connectors: Bullet connectors 3.5	Blue · Motor phase Green · Motor phase Yellow · Motor phase
Dual controller Rear motor phases	**Rear motor** Connectors: Bullet connectors 3.5	Yellow · Motor phase Green · Motor phase Blue · Motor phase
Display	**Display cable connector**	White Brown Colour not shown · Transparent wire Yellow · Data RX Blue · Data TX Green · SD Black · Ground Orange · VCC Red · Battery +
Display cable connector	**Light control board** Display communication Connectors: Board header	Brown · Data TX White · Data RX Colour not shown · Ground, transparent wire
Display cable connector	**Dual controller** Display Connectors: JST SM plug	Red Orange Black Green Blue Yellow

Connector	To	Wire
4-function switch	**Light control board** Handlebar switch Connectors: Board header	Red Yellow Black Green Blue
Stem LED strip 1	**Light control board** RGB output 1 Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Stem LED strip 2	**Light control board** RGB output 2 Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Brake switch 1	**Light control board** Brakes 1 Connectors: Board header	Red, then black after the connector · SC_IN White · +12 V
Brake switch 2	**Light control board** Brakes 2 Connectors: Board header	Red, then black after the connector · SC_IN White · +12 V
Splice	**High beam**	Green · + Black · −
Splice	**Horn**	Red · + Black · −
Warning light button	**Light control board** Warning Connectors: Board header	Black White Red
Smoke sensor	**Light control board** Smoke sensor Connectors: Board header	Grey · SIN Black · Ground Blue · Data RX Yellow · Data TX Red · 3.3 V
Tail and brake light	**Light control board** Running and brake light Connectors: Board header	Red · LED + Yellow · DL− Black · SCL−
Turn signal (right, front)	**Light control board** Front right turn signal Connectors: Board header	Red · LED + Black · LED −

Connector	To	Wire
Turn signal (right, rear)	**Light control board** Rear right turn signal Connectors: Board header	Red · LED + Black · LED −
Turn signal (left, front)	**Light control board** Front left turn signal Connectors: Board header	Red · LED + Black · LED −
Turn signal (left, rear)	**Light control board** Rear left turn signal Connectors: Board header	Red · LED + Black · LED −
Temperature sensor 1	**Light control board** NTC probe 1 Connectors: Board header	Black Black
Temperature sensor 2	**Light control board** NTC probe 2 Connectors: Board header	Black Black
Pouch battery	**Light control board** Battery Connectors: Board header	Yellow · Temperature sensor Black · Ground Red · Battery +
Battery Output 1	**Dual controller** Battery 1 Connectors: Bullet connectors SH4.0	Black Red
Battery Output 2	**Dual controller** Battery 2 Connectors: Bullet connectors SH4.0	Black Red
Charging port 1	**Splice** Connectors: Bullet connectors	Black Red
Charging port 2	**Splice**	Black Red
Splice	**Battery** Charge	Black Red
DC-DC converter Output	**Light control board** 12 V input Connectors: Bullet connectors	Red · +12 V Black · Ground
Speed limit plug	**Dual controller** Speed limit	Grey Grey
Reserved connector	**Dual controller** Spare	Red Black Brown