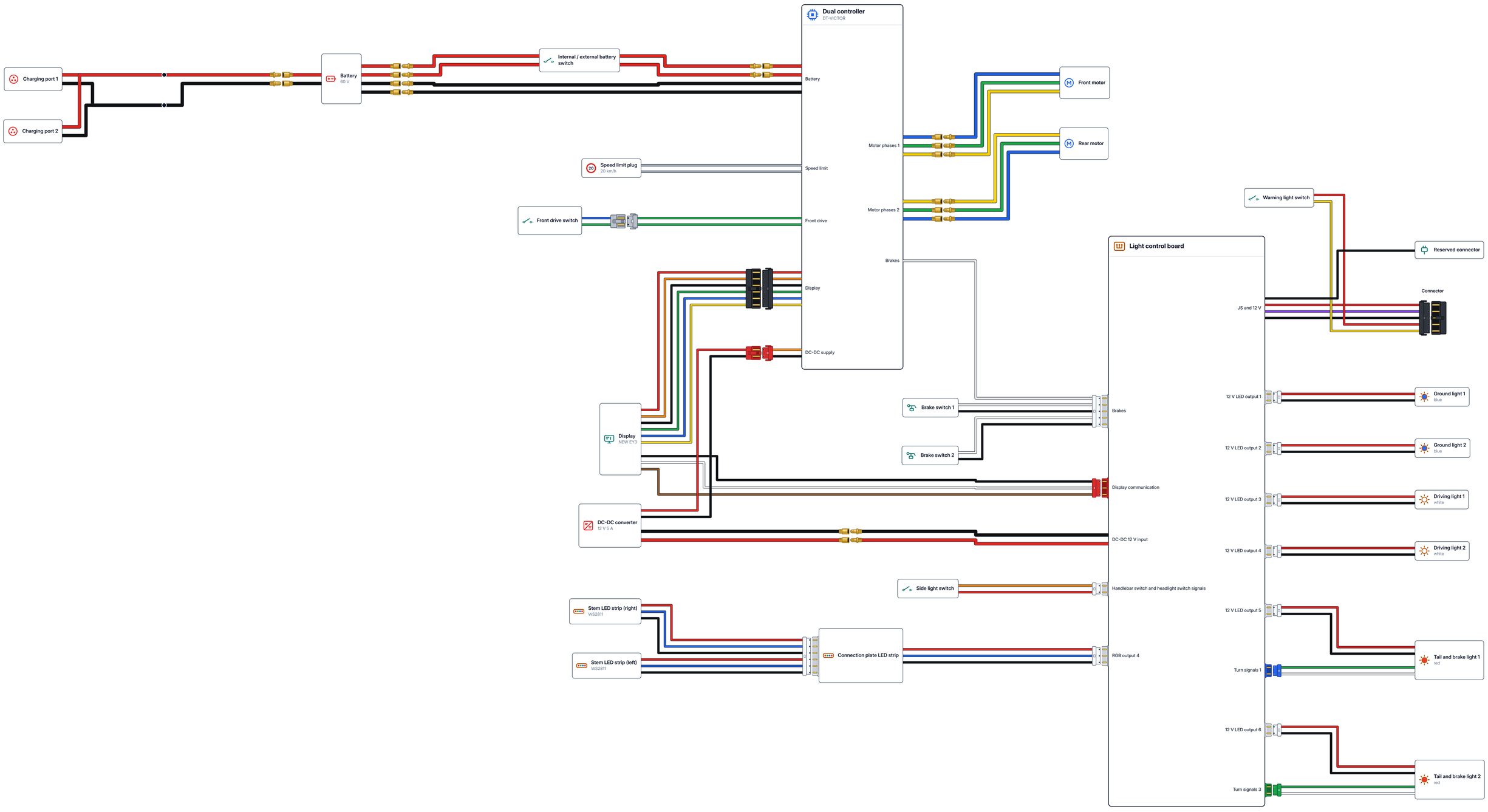
WIRING DIAGRAM

Dualtron Victor 2024 | 60 V

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WIRE COLOURS

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

CONNECTORS

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

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

NOTES

1. The internal / external battery switch selects the battery feeding the controller. The external battery connection is not shown on the original diagram.
2. Each red tail light has two pairs of wires, marked + and – on the original. The first, red and black, goes to a 12 V LED output of the light board. The second, green (–) and white (+), goes to a turn signal connector of the board; on the original, these two wires leave the light black and red for a short stretch.
3. Both brake switches are drawn under a single "left / right" label, which does not say which one is on the left.
4. On the black connector of the warning light switch, pin 1 (black wire on the board side) has no wire on the switch side.
5. An unnamed grey 2-pin connector is linked to the light board by a single black wire, on pin 1. Pin 2 has no wire and nothing is plugged into it on the original.
6. On the light board, only the right-hand RGB connector is wired, along with the first and third turn signal connectors. The logo output, headlight output and DC-DC 60 V input marked on the board have no wire, and only pins 4 and 5 of the handlebar switch connector are wired.
7. On the connection panel, only the side marked U–, OUT and U+ is linked to the light board; the V+, DI and V– side only has short wire ends.
8. The word "transparent", written in Chinese next to the display communication connector on the light board, does not say whether it refers to the plug or one of the wires.
9. The original diagram shows no throttle.

DOCUMENT

Based on the manufacturer diagram "Schéma électrique DUALTRON Victor 2024" dated 14 September 2023.

Redrawn by FōhzShop on 1 November 2026.

Disconnect the battery before any work.

CONNECTOR PINOUT

Connector	To	Wire
Dual controller Motor phases 1	**Front motor** Connectors: Bullet connectors	Blue · Motor phase Green · Motor phase Yellow · Motor phase
Dual controller Motor phases 2	**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 · Orange, then red after the connector · IN+ 1 · Black · IN–
Light control board Brakes	**Dual controller** Brakes Connectors: Board header	5 · White
Light control board JS and 12 V	**Connector**	→ 3 · Red · +12 V → 2 · Violet · JS → 1 · Black
Light control board JS and 12 V	**Reserved connector**	→ 1 · Black
Light control board 12 V LED output 1	**Ground light 1** Connectors: Board header	1 · Red 2 · Black
Light control board 12 V LED output 2	**Ground light 2** Connectors: Board header	1 · Red 2 · Black
Light control board 12 V LED output 3	**Driving light 1** Connectors: Board header	1 · Red 2 · Black
Light control board 12 V LED output 4	**Driving light 2** Connectors: Board header	1 · Red 2 · Black
Light control board 12 V LED output 5	**Tail and brake light 1** Input 1 Connectors: Board header	1 · Red · LED + 2 · Black · LED –
Light control board 12 V LED output 6	**Tail and brake light 2** Input 1 Connectors: Board header	1 · Red · LED + 2 · Black · LED –
Light control board Turn signals 1	**Tail and brake light 1** Input 2 Connectors: Board header	1 · Green · LED – 2 · White · LED +
Light control board Turn signals 3	**Tail and brake light 2** Input 2 Connectors: Board header	1 · Green · LED – 2 · White · LED +
Light control board RGB output 4	**Connection plate LED strip** Output Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Battery Output	**Internal / external battery switch** Input Connectors: Bullet connectors	Red · Battery + Red · Battery +
Battery Output	**Dual controller** Battery Connectors: Bullet connectors	Black · Battery – Black · Battery –
Charging port 1	**Splice**	1 · Red · Charge + 3 · Black · Charge –
Charging port 2	**Splice**	1 · Red · Charge + 3 · Black · Charge –
Splice	**Battery** Charge Connectors: Bullet connectors	Red · Charge + Black · Charge –
Internal / external battery switch Output	**Dual controller** Battery Connectors: Bullet connectors	Red · Battery + Red · Battery +
Display Controller	**Dual controller** Display Connectors: JST SM plug	Red Orange Black Green Blue Yellow
Display Light board	**Light control board** Display communication Connectors: Board header	→ 3 · Black → 2 · White → 1 · Brown
Brake switch 1	**Light control board** Brakes Connectors: Board header	→ 4 · White → 2 · Black
Brake switch 2	**Light control board** Brakes Connectors: Board header	→ 3 · White → 1 · Black
Speed limit plug	**Dual controller** Speed limit	Grey Grey
Front drive switch	**Dual controller** Front drive Connectors: JST SM plug	Blue, then green after the connector Green
DC-DC converter Output	**Light control board** DC-DC 12 V input Connectors: Bullet connectors	Black · Ground Red · +12 V
Side light switch	**Light control board** Handlebar switch and headlight switch signals Connectors: Board header	→ 4 · Orange → 5 · Red
Connector	**Warning light switch**	3 · Red 2 · Yellow
Stem LED strip (right)	**Connection plate LED strip** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Stem LED strip (left)	**Connection plate LED strip** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground