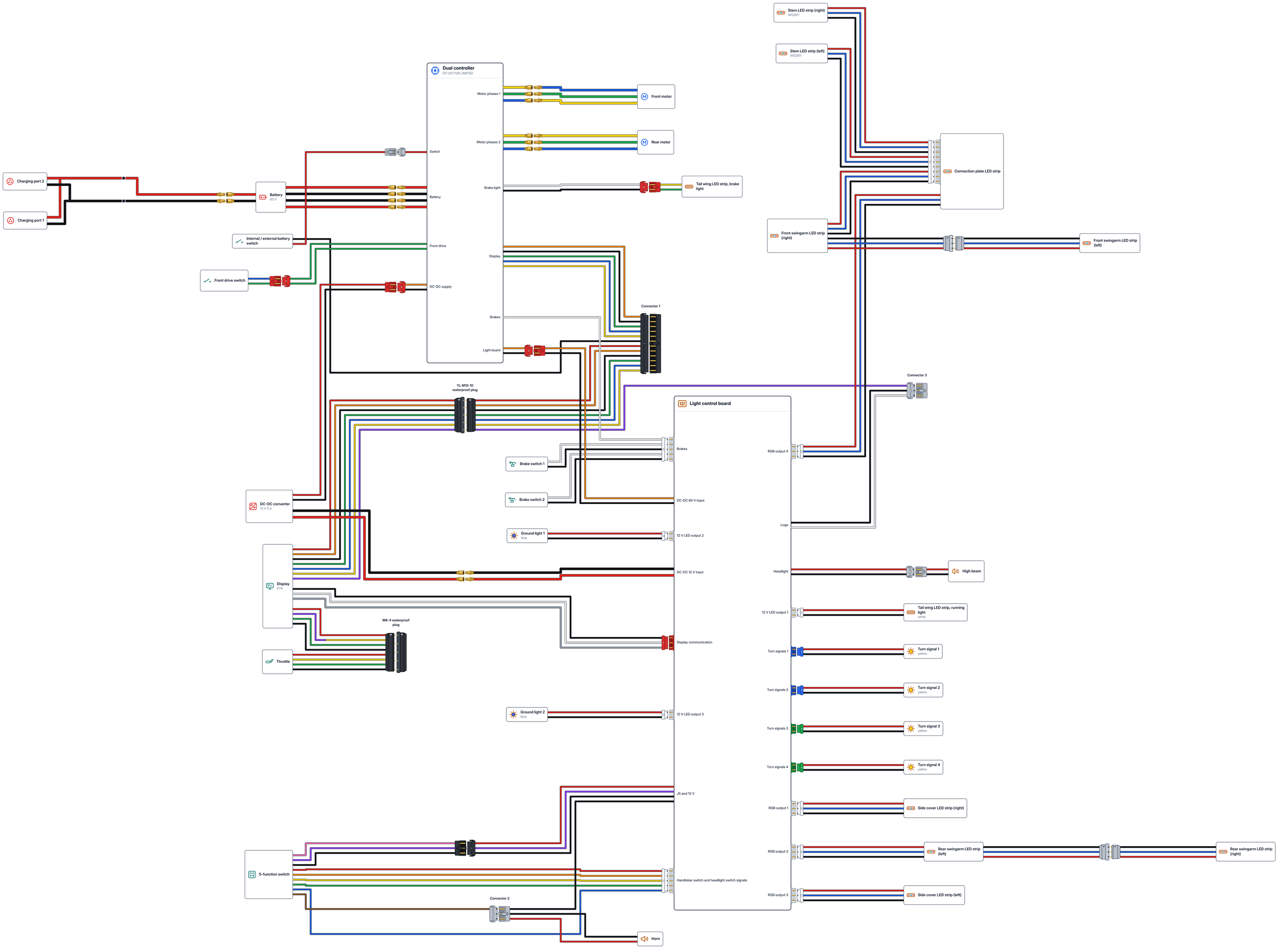
WIRING DIAGRAM

Dualtron Victor Limited | 60 V

FOHZSHOP.FR



WIRE COLOURS

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

CONNECTORS

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

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

NOTES

1. On the original, the battery cables go straight to the controller. The internal / external battery switch only has two thin wires: the red one goes to the controller through a grey plug, the black one to connector 1, on the pin that takes the display's red wire. The external battery connection is not shown.
2. At the front motor, the blue and yellow wires swap at the bullet connectors: the yellow one on the controller side continues blue on the motor side, and the blue one yellow.
3. The display's violet wire runs through the YL M10-10 waterproof plug, then reaches the light board LOGO output through connector 3, where it continues white. On this connector, pin 1 (black wire on the board side) has no wire opposite.
4. The throttle's yellow wire reaches the display violet: the original draws this colour change just below the display, with no connector.
5. On the black connector between the light board and the handlebar switch, the pin 3 wire on the switch side is drawn very pale pink, almost cream.
6. Both brake switches are drawn under a single "left / right" label, which does not say which one is on the left.
7. On the original diagram, the LEDs of the tail-wing brake strip are marked "white", like those of the running-light strip.
8. The four yellow lights are marked "turn / warning light" on the original.
9. On the light board, the last two 12 V LED connectors on the left and pin 6 of the handlebar switch connector are not connected to anything on the original.
10. On the connection panel, the side marked U−, OUT and U+ only has short wire ends.

DOCUMENT

Based on the manufacturer diagram "DT-VICTOR LTD(1)" dated 21 October 2024.

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	Yellow, then blue after the connector · Motor phase Green · Motor phase Blue, then yellow after the connector · 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 DC-DC 60 V input	**Dual controller** Light board Connectors: JST SM plug	2 · Orange 1 · Black
Light control board JS and 12 V	**5-function switch** Connectors: JST SM plug	3 · Red, then pink after the connector · +12 V 2 · Violet · JS 1 · Black
Light control board JS and 12 V	**Connector 2**	→ 1 · Black
Light control board Logo	**Connector 3**	→ 1 · Black → 2 · White
Light control board Headlight	**High beam** Connectors: JST SM plug	→ 2 · Red · LED + → 1 · Black · LED −
Light control board 12 V LED output 1	**Tail wing LED strip, running light** Connectors: Board header	1 · Red · +12 V 2 · Black · Ground
Light control board 12 V LED output 2	**Ground light 1** Connectors: Board header	1 · Red 2 · Black
Light control board 12 V LED output 3	**Ground light 2** Connectors: Board header	1 · Red 2 · Black
Light control board Turn signals 1	**Turn signal 1** Connectors: Board header	1 · Red · LED + 2 · Black · LED −

Connector	To	Wire
Light control board Turn signals 2	**Turn signal 2** Connectors: Board header	1 · Red · LED + 2 · Black · LED −
Light control board Turn signals 3	**Turn signal 3** Connectors: Board header	1 · Red · LED + 2 · Black · LED −
Light control board Turn signals 4	**Turn signal 4** Connectors: Board header	1 · Red · LED + 2 · Black · LED −
Light control board RGB output 1	**Side cover LED strip (right)** Connectors: Board header	Red · LED + Blue · LED data Black · LED −
Light control board RGB output 2	**Rear swingarm LED strip (left)** Connectors: Board header	Red · LED + Blue · LED data Black · LED −
Light control board RGB output 3	**Side cover LED strip (left)** Connectors: Board header	Red · LED + Blue · LED data Black · LED −
Light control board RGB output 4	**Connection plate LED strip** Input Connectors: Board header	Red · LED + Blue · LED data Black · LED −
Battery Output	**Dual controller** Battery Connectors: Bullet connectors	Red · Battery + Black · Battery −
Battery Output	**Dual controller** Battery Connectors: Bullet connectors	Black · Battery − Red · 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 −

Connector	To	Wire
Internal / external battery switch	**Dual controller** Switch Connectors: JST SM plug	Red
Display Controller	**YL M10-10 waterproof plug**	Red Orange Black Green Blue Yellow Violet
Display Light board	**Light control board** Display communication Connectors: Board header	→ 3 · Black → 2 · White → 1 · Grey
YL M10-10 waterproof plug	**Connector 1**	Red Orange Black Green Blue Yellow
YL M10-10 waterproof plug	**Connector 3**	→ 2 · Violet
Connector 1	**Dual controller** Display	Orange Black Green Blue Yellow
Connector 1	**Internal / external battery switch**	Black
Throttle	**M6-4 waterproof plug**	Red Yellow Green Black
M6-4 waterproof plug	**Display** Throttle	Red Yellow, then violet Green Black

Connector	To	Wire
5-function switch	**Light control board** Handlebar switch and headlight switch signals Connectors: Board header	→ 5 · Red → 4 · Orange → 3 · Yellow → 2 · Green → 1 · Blue
5-function switch	**Connector 2**	→ 2 · 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
Front drive switch	**Dual controller** Front drive Connectors: JST SM plug	1 · Blue, then green after the connector 2 · Green
DC-DC converter Output	**Light control board** DC-DC 12 V input Connectors: Bullet connectors	Black · Ground Red · +12 V
Connector 2	**Horn**	1 · Black · − 2 · Red · +
Tail wing LED strip, brake light	**Dual controller** Brake light Connectors: JST SM plug	2 · Yellow, then white after the connector · +12 V 1 · Green, then black after the connector · Ground
Rear swingarm LED strip (left)	**Rear swingarm LED strip (right)** Connectors: Round waterproof plug	Black Blue Red
Front swingarm LED strip (right)	**Connection plate LED strip** Connectors: Board header	Red Blue Black
Front swingarm LED strip (right)	**Front swingarm LED strip (left)** Connectors: Round waterproof plug	Black Blue Red
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