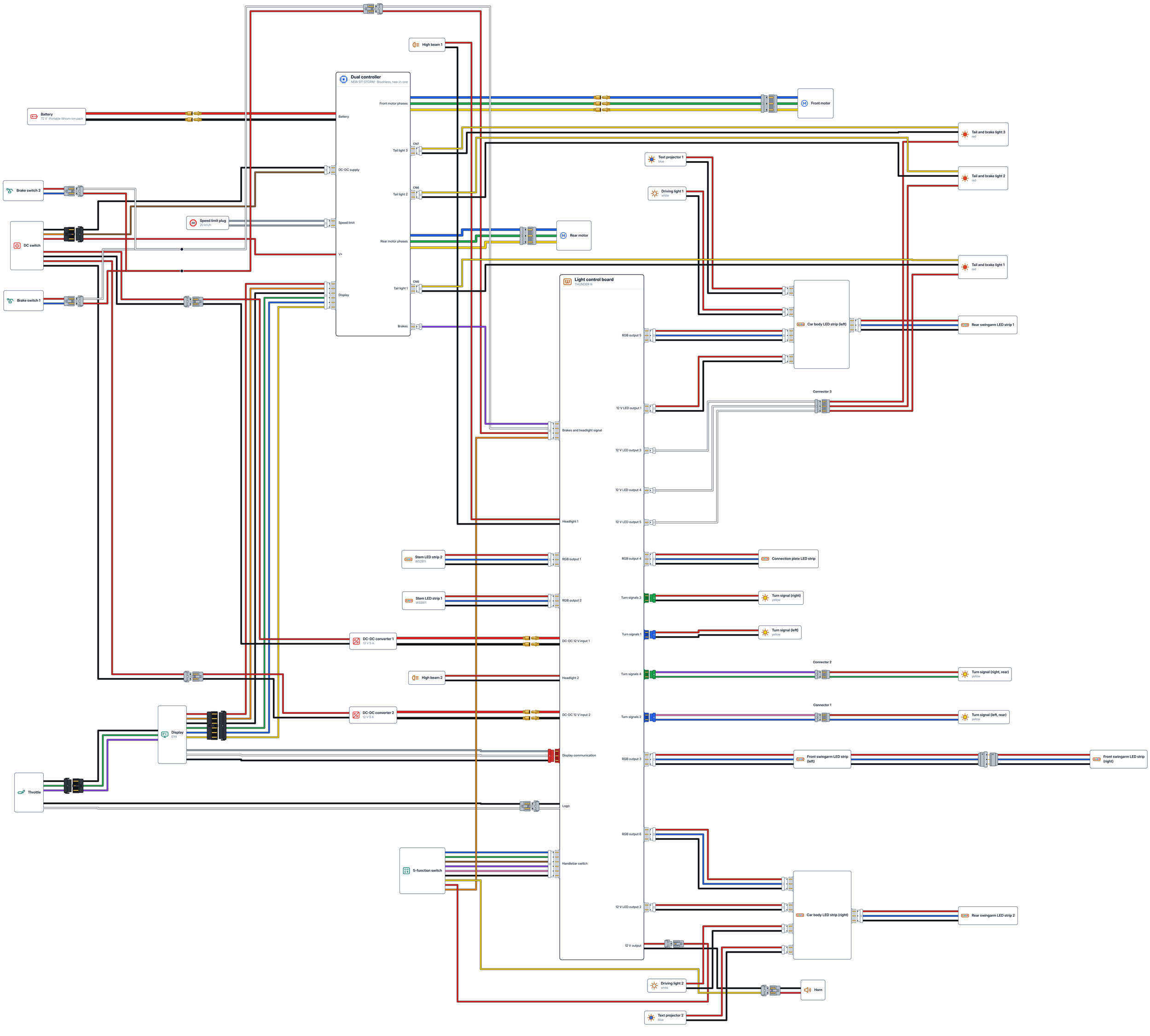
WIRING DIAGRAM

Dualtron Storm New | 72 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.

- Board header
- JST SM plug
- HY 2 mm plug
- Splice: wires are joined at this point
- Connector (type not shown)
- Bullet connectors
- Round waterproof plug

NOTES

1. According to the original, the three tail and brake lights and the two rear turn lights sit at the rear end of the controller. The original does not say where the two other turn lights are fitted.
2. The left rear turn light + is drawn red, but the label next to it says yellow.
3. The three white wires of LED 12 V outputs 3 to 5 run through the controller sleeve to the tail light plug. The original does not show which output feeds which light.
4. The "PH2.0_2P×3" mark covers the three neighbouring plugs near the controller, including the tail light plug, which has 3 pins marked V+, DI and V−. Under that plug the original still reads thin red, purple and brown, while the three wires are drawn white.
5. The "three white wires" mark is printed next to CN3, which only takes a purple wire on pin 1. Pins 2 and 3 have no wire.
6. On each brake switch, the plug joins the red wire to the white wire and the blue wire to the red wire.
7. The red wire of the DC switch ends at the controller V+ mark, with no plug drawn. Its orange wire turns brown at the plug, then is marked light brown at CN2.
8. The original specifies light shades (light purple, green, blue and brown), given here in their base colour.
9. Both pole strips carry the same "left / right" label, as do both brake switches and both rear swingarm strips. They are numbered 1 and 2.
10. The 2-pin header at the top of the light board (LED 12 V output 1) is unlabelled. On each car body LED strip, both RGB headers are marked DO on the strip side, the input is the one coming from the board, and one 2-pin header is left free.
11. The plug between the light board 12 V output and the handlebar switch has 2 pins, only pin 2 is wired.
12. A small unlabelled dark grey box is drawn on the leads of each text projector. Two round three-hole sockets are drawn on the battery, without label or wire.

DOCUMENT

Based on the manufacturer diagram "Schéma électrique DUALTRON Storm new".

Redrawn by FõhzShop 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 / Connector (type not shown)	→ A1 · Blue · Motor phase → A2 · Green · Motor phase → A3 · Yellow · Motor phase
Dual controller Rear motor phases	**Rear motor** Connectors: Connector (type not shown)	→ A1 · Blue · Motor phase → A2 · Green · Motor phase → A3 · Yellow · Motor phase
Light control board Logo	**Throttle** Logo Connectors: JST SM plug	Black White
Light control board Brakes and headlight signal	**Dual controller** Brakes Connectors: Board header / Board header PH2.0_3P CN3	3 → 1 · Violet · Brake signal
Light control board Headlight 1	**High beam 1**	Red · LED + Black · LED –
Light control board Headlight 2	**High beam 2**	Red · LED + Black · LED –
Light control board RGB output 1	**Stem LED strip 2** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Light control board RGB output 2	**Stem LED strip 1** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Light control board RGB output 3	**Front swingarm LED strip (left)** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Light control board RGB output 4	**Connection plate LED strip** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Light control board RGB output 5	**Car body LED strip (left)** Input Connectors: Board header / Board header	Red · LED + Blue · LED data Black · LED –
Light control board RGB output 6	**Car body LED strip (right)** Input Connectors: Board header / Board header	Red · LED + Blue · LED data Black · LED –
Light control board 12 V LED output 1	**Car body LED strip (left)** Power Connectors: Board header / Board header	1 · Red 2 · Black
Light control board 12 V LED output 2	**Car body LED strip (right)** Power Connectors: Board header / Board header	1 · Red 2 · Black
Light control board Turn signals 1	**Turn signal (left)** Connectors: Board header	1 · Red · LED + 2 · Black · LED –
Light control board Turn signals 3	**Turn signal (right)** Connectors: Board header	1 · Red · LED + 2 · Black · LED –
Light control board Turn signals 2	**Connector 1** Connectors: Board header	1 → 2 · Pink 2 → 1 · Blue
Light control board Turn signals 4	**Connector 2** Connectors: Board header	1 → 2 · Violet 2 → 1 · Green
Light control board 12 V LED output 3	**Connector 3** Connectors: Board header	1 · White
Light control board 12 V LED output 4	**Connector 3** Connectors: Board header	1 · White
Light control board 12 V LED output 5	**Connector 3** Connectors: Board header	1 · White
Battery Output	**Dual controller** Battery Connectors: Bullet connectors	Red · Battery + Black · Battery –
Display Controller	**Dual controller** Display Connectors: JST SM plug / Board header XH_6P CN1	→ 6 · Red → 5 · Orange → 4 · Black → 3 · Green → 2 · Blue → 1 · Yellow
Display Light board	**Light control board** Display communication Connectors: Board header	→ 1 · Grey → 2 · White → 3 · Black
Throttle	**Display** Throttle Connectors: JST SM plug	Black Green Violet
5-function switch	**Light control board** Handlebar switch Connectors: Board header	→ 1 · Blue → 2 · Green → 3 · Brown → 4 · Violet → 5 · Pink → 6 · Black
5-function switch	**Light control board** Brakes and headlight signal Connectors: Board header	→ 4 · Orange · Headlight control
5-function switch	**Light control board** 12 V output Connectors: JST SM plug	Red · +12 V
Horn	**5-function switch** Connectors: JST SM plug	Red, then yellow after the connector · +
Horn	**Light control board** 12 V output Connectors: JST SM plug	Black · –
Brake switch 1	**Splice** Connectors: JST SM plug	Red, then white after the connector Blue, then red after the connector
Brake switch 2	**Splice** Connectors: JST SM plug	Red, then white after the connector Blue, then red after the connector
Splice	**Light control board** Brakes and headlight signal Connectors: JST SM plug / Board header	→ 2 · White · Brake signal → 1 · Red · +12 V
Speed limit plug	**Dual controller** Speed limit Connectors: Board header PH2.0_2P CN4	→ 1 · Grey → 2 · Grey
DC switch Input	**Dual controller** DC-DC supply Connectors: JST SM plug / Board header XH_2P CN2	→ 1 · Black → 2 · Orange, then brown after the connector
DC switch Input	**Dual controller** V+ Connectors: JST SM plug	Red · V+
DC switch Output	**DC-DC converter 1** Input Connectors: JST SM plug	Red · IN+ Black · IN–
DC switch Output	**DC-DC converter 2** Input Connectors: JST SM plug	Red · IN+ Black · IN–
DC-DC converter 1 Output	**Light control board** DC-DC 12 V input 1 Connectors: Bullet connectors	Red · +12 V Black · Ground
DC-DC converter 2 Output	**Light control board** DC-DC 12 V input 2 Connectors: Bullet connectors	Red · +12 V Black · Ground
Front swingarm LED strip (left)	**Front swingarm LED strip (right)** Connectors: Round waterproof plug	Red Blue Black
Car body LED strip (left) Output	**Rear swingarm LED strip 1** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Car body LED strip (right) Output	**Rear swingarm LED strip 2** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Driving light 1	**Car body LED strip (left)** LED output 1 Connectors: Board header	Red Black
Driving light 2	**Car body LED strip (right)** LED output 2 Connectors: Board header	Red Black
Text projector 1	**Car body LED strip (left)** LED output 2 Connectors: Board header	Red · LED + Black · LED –
Text projector 2	**Car body LED strip (right)** LED output 1 Connectors: Board header	Red · LED + Black · LED –
Connector 1	**Turn signal (left, rear)**	2 · Red · LED + 1 · Blue · LED –
Connector 2	**Turn signal (right, rear)**	2 · Red · LED + 1 · Green · LED –
Tail and brake light 1 Input 2	**Connector 3**	→ 1 · Red · LED +
Tail and brake light 1 Input 1	**Dual controller** Tail light 1 Connectors: Board header CN5	→ 1 · Yellow · LED + → 2 · Black · LED –
Tail and brake light 2 Input 2	**Connector 3**	→ 2 · Red · LED +
Tail and brake light 2 Input 1	**Dual controller** Tail light 2 Connectors: Board header CN6	→ 1 · Yellow · LED + → 2 · Black · LED –
Tail and brake light 3 Input 2	**Connector 3**	→ 3 · Red · LED +
Tail and brake light 3 Input 1	**Dual controller** Tail light 3 Connectors: Board header CN7	→ 1 · Yellow · LED + → 2 · Black · LED –