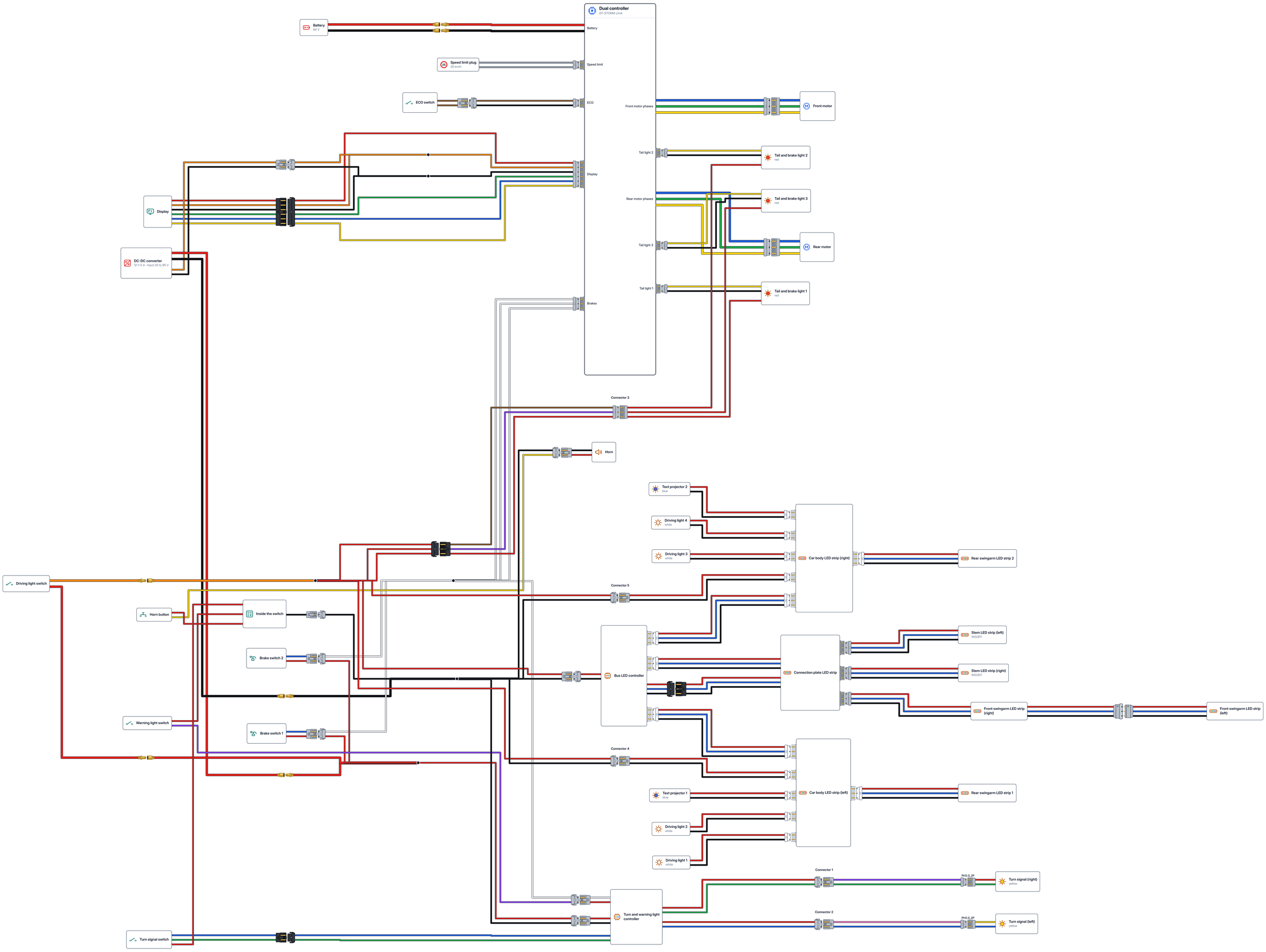
WIRING DIAGRAM

# Dualtron Storm Limited | 84 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
- Bullet connectors
- Splice: wires are joined at this point
- Connector (type not shown)
- HY 2 mm plug
- Round waterproof plug

## NOTES

1. According to the original, the three tail and brake lights and the two turn lights sit at the rear end of the controller. The turn light wires and the red + of the tail lights go through three plugs drawn inside the controller and marked together "PH2.0_2P*3", although the tail light one has 3 pins.
2. The switch wires are marked J1 to J9: J1 and J2 on the driving light switch, J3 from inside the switch to the DC-DC − output, J4 and J5 on the turn signal switch, J6 on the horn button, J7 and J8 on the ECO switch, J9 on the warning light switch.
3. The unmarked red wire of the warning light switch, the turn signal switch and the horn button, like J3, ends at the mention "inside the switch". The original does not show what they join.
4. The driving light switch switches the 12 V of the bus LED controller, of both car body LED strips and the lights plugged into them, and the red + of the three tail lights. The brake switches and the turn and warning light controller take the DC-DC 12 V ahead of the switch. No headlight is drawn on the original.
5. Junctions 1, 2 and 3 are drawn as one-pin grey terminals: the thin wires meet on one side, the thick wire comes in on the other. The terminal of junction 2 takes two thick wires, the DC-DC + output and J1.
6. The three white wires (brake switches 1 and 2, SC input of the turn and warning light controller) enter the controller sheath and come out of a single point marked as a junction, then go to pins 3, 2 and 1 of the TO_J131 socket. The original does not say which wire goes to which pin.
7. The left turn light + is drawn red, but the label next to it says yellow.
8. The original specifies light shades (light brown, purple, green and blue), given here in their base colour. It also says "thick" for the display red and black wires, and "thin" for the tail light red and the J8 black inside the controller sheath. The DC-DC IN+ wire is marked orange and red: orange, then red at the DC-DC terminal.
9. The switch wired to TO_J127 is called ECO switch in Chinese and "Front drive switch" in English on the original.
10. Both brake switches carry the same "left / right" label, as do both rear swingarm strips. They are numbered 1 and 2.
11. On the turn and warning light controller, only outputs RR+, RF−, LF+ and LR− are wired. Pin 2 of the turn signal switch plug and pin 2 of the J3 plug have no wire. The bus LED controller carries a 2-pin header with no wire.
12. The 25 km/h speed limiter is a 2-pin plug: on each side, only pin 1 takes a grey wire.
13. On each car body LED strip, both RGB headers are marked DO on the strip side.
14. The leads of each text projector run through a short unlabelled dark grey box.
15. The original shows neither a throttle nor a charging port.

## DOCUMENT

Based on the manufacturer diagram "Schéma électrique DUALTRON Storm limited 2".

Redrawn by FOhrShop on 1 November 2026.

**Disconnect the battery before any work.**

## CONNECTOR PINOUT

| Connector | To | Wire |
|---|---|---|
| **Dual controller**<br>Front motor phases | **Front motor**<br>Connectors: Connector (type not shown) | → A1 · Blue · Motor phase<br>→ A2 · Green · Motor phase<br>→ A3 · Yellow · Motor phase |
| **Dual controller**<br>Rear motor phases | **Rear motor**<br>Connectors: Connector (type not shown) | → A1 · Blue · Motor phase<br>→ A2 · Green · Motor phase<br>→ A3 · Yellow · Motor phase |
| **Battery**<br>Output | **Dual controller**<br>Battery<br>Connectors: Bullet connectors | Red · Battery +<br>Black · Battery − |
| **DC-DC converter**<br>Output | **Splice 2**<br>Connectors: Bullet connectors | Red · +12 V |
| **DC-DC converter**<br>Output | **Splice 1**<br>Connectors: Bullet connectors | Black · Ground |
| **Splice 2** | **Driving light switch**<br>Connectors: Bullet connectors | Red · J1 |
| **Splice 4** | **Dual controller**<br>Brakes<br>Connectors: Board header PH2.0_3P TO_J131 | → 3 · White<br>→ 2 · White<br>→ 1 · White |
| **Splice 5** | **Dual controller**<br>Display<br>Connectors: Board header XH_6P TO_J124 | → 6 · Red<br>→ 5 · Orange<br>→ 4 · Black<br>→ 3 · Green<br>→ 2 · Blue<br>→ 1 · Yellow |
| **Splice 5** | **DC-DC converter**<br>Input<br>Connectors: JST SM plug | Orange · IN+<br>Black · IN− |
| **Display** | **Splice 5**<br>Connectors: JST SM plug | → 6 · Red<br>→ 5 · Orange<br>→ 4 · Black<br>→ 3 · Green<br>→ 2 · Blue<br>→ 1 · Yellow |
| **Speed limit plug** | **Dual controller**<br>Speed limit<br>Connectors: Board header PH2.0_2P TO_J129 | → 1 · Grey<br>→ 2 · Grey |
| **ECO switch** | **Dual controller**<br>ECO<br>Connectors: JST SM plug / Board header PH2.0_2P TO_J127 | 2 → 2 · Brown · J7<br>1 → 1 · Brown, then black after the connector · J8 |
| **Brake switch 1** | **Splice 4**<br>Connectors: JST SM plug | 2 · Blue, then white after the connector |

| Connector | To | Wire |
|---|---|---|
| **Brake switch 1** | **Splice 2**<br>Connectors: JST SM plug | 1 · Red |
| **Brake switch 2** | **Splice 4**<br>Connectors: JST SM plug | 2 · Blue, then white after the connector |
| **Brake switch 2** | **Splice 2**<br>Connectors: JST SM plug | 1 · Red |
| **Driving light switch** | **Splice 3**<br>Connectors: Bullet connectors | Orange · J2 |
| **Warning light switch** | **Inside the switch**<br>Warning | Red |
| **Turn signal switch** | **Turn and warning light controller**<br>Turn signals<br>Connectors: JST SM plug | Blue · J4, L<br>Green · J5, R |
| **Turn signal switch** | **Inside the switch**<br>Turn signals | Red |
| **Horn button** | **Inside the switch**<br>Horn | Red |
| **Inside the switch** | **Splice 1**<br>Connectors: JST SM plug | 1 · Black · J3 |
| **Turn and warning light controller**<br>Input | **Splice 4**<br>Connectors: JST SM plug | 2 · White · SC |
| **Turn and warning light controller**<br>Input | **Warning light switch**<br>Connectors: JST SM plug | 1 · Red, then violet after the connector · J5, J9 |
| **Turn and warning light controller**<br>Power | **Splice 2**<br>Connectors: JST SM plug | 2 · Red · Supply + |
| **Turn and warning light controller**<br>Power | **Splice 1**<br>Connectors: JST SM plug | 1 · Black · Supply − |
| **Turn and warning light controller**<br>Right turn signal | **Connector 1** | → 2 · Red · RR+<br>→ 1 · Green · RF− |
| **Turn and warning light controller**<br>Left turn signal | **Connector 2** | → 2 · Red · LF+<br>→ 1 · Blue · LR− |
| **Bus LED controller**<br>Power | **Splice 1**<br>Connectors: JST SM plug | 1 · Black |
| **Bus LED controller**<br>Power | **Splice 3**<br>Connectors: JST SM plug | 2 · Red |
| **Bus LED controller**<br>RGB output 1 | **Connection plate LED strip**<br>Input<br>Connectors: Board header | Red · LED +<br>Blue · LED data<br>Black · LED − |

| Connector | To | Wire |
|---|---|---|
| **Bus LED controller**<br>RGB output 2 | **Car body LED strip (left)**<br>Input<br>Connectors: Board header / Board header | Red · LED +<br>Blue · LED data<br>Black · LED − |
| **Bus LED controller**<br>RGB output 3 | **Car body LED strip (right)**<br>Input<br>Connectors: Board header / Board header | Red · LED +<br>Blue · LED data<br>Black · LED − |
| **Connector 1** | **Turn signal (right)**<br>Connectors: HY 2 mm plug PH2.0_2P | 2 → 2 · Violet, then red after the connector · LED +<br>1 → 1 · Green · LED − |
| **Connector 2** | **Turn signal (left)**<br>Connectors: HY 2 mm plug PH2.0_2P | 2 → 2 · Pink, then yellow after the connector · LED +<br>1 → 1 · Blue · LED − |
| **Connector 3** | **Splice 3**<br>Connectors: JST SM plug | 1 · Brown, then red after the connector<br>2 · Violet, then red after the connector<br>3 · Red |
| **Connector 4** | **Splice 3** | 2 · Red |
| **Connector 4** | **Splice 1** | 1 · Black |
| **Connector 5** | **Splice 3** | 2 · Red |
| **Connector 5** | **Splice 1** | 1 · Black |
| **Tail and brake light 1**<br>Input 1 | **Dual controller**<br>Tail light 1<br>Connectors: Board header TO_J133 | → 1 · Yellow · LED +<br>→ 2 · Black · LED − |
| **Tail and brake light 1**<br>Input 2 | **Connector 3** | → 1 · Red · LED + |
| **Tail and brake light 2**<br>Input 1 | **Dual controller**<br>Tail light 2<br>Connectors: Board header TO_J134 | → 1 · Yellow · LED +<br>→ 2 · Black · LED − |
| **Tail and brake light 2**<br>Input 2 | **Connector 3** | → 2 · Red · LED + |
| **Tail and brake light 3**<br>Input 1 | **Dual controller**<br>Tail light 3<br>Connectors: Board header TO_J135 | → 1 · Yellow · LED +<br>→ 2 · Black · LED − |
| **Tail and brake light 3**<br>Input 2 | **Connector 3** | → 3 · Red · LED + |
| **Connection plate LED strip**<br>Output | **Bus LED controller**<br>Input<br>Connectors: JST SM plug | → 1 · Red · LED +<br>→ 2 · Blue · LED data<br>→ 3 · Black · LED − |
| **Connection plate LED strip**<br>RGB output 1 | **Stem LED strip (right)**<br>Connectors: Board header | Red · +12 V<br>Blue · LED data<br>Black · Ground |

| Connector | To | Wire |
|---|---|---|
| **Connection plate LED strip**<br>RGB output 2 | **Front swingarm LED strip (right)**<br>Connectors: Board header | Red<br>Blue<br>Black |
| **Connection plate LED strip**<br>RGB output 3 | **Stem LED strip (left)**<br>Connectors: Board header | Red · +12 V<br>Blue · LED data<br>Black · Ground |
| **Front swingarm LED strip (right)** | **Front swingarm LED strip (left)**<br>Connectors: Round waterproof plug | Red<br>Blue<br>Black |
| **Car body LED strip (left)**<br>Output | **Rear swingarm LED strip 1**<br>Connectors: Board header | Red · LED +<br>Blue · LED data<br>Black · LED − |
| **Car body LED strip (left)**<br>Power | **Connector 4**<br>Connectors: Board header | 1 → 2 · Red<br>2 → 1 · Black |
| **Car body LED strip (right)**<br>Output | **Rear swingarm LED strip 2**<br>Connectors: Board header | Red · LED +<br>Blue · LED data<br>Black · LED − |
| **Car body LED strip (right)**<br>Power | **Connector 5**<br>Connectors: Board header | 1 → 2 · Red<br>2 → 1 · Black |
| **Driving light 1** | **Car body LED strip (left)**<br>LED output 1<br>Connectors: Board header | → 1 · Red<br>→ 2 · Black |
| **Driving light 2** | **Car body LED strip (left)**<br>LED output 3<br>Connectors: Board header | → 1 · Red<br>→ 2 · Black |
| **Driving light 3** | **Car body LED strip (right)**<br>LED output 2<br>Connectors: Board header | → 1 · Red<br>→ 2 · Black |
| **Driving light 4** | **Car body LED strip (right)**<br>LED output 3<br>Connectors: Board header | → 1 · Red<br>→ 2 · Black |
| **Text projector 1** | **Car body LED strip (left)**<br>LED output 2<br>Connectors: Board header | → 1 · Red<br>→ 2 · Black |
| **Text projector 2** | **Car body LED strip (right)**<br>LED output 1<br>Connectors: Board header | → 1 · Red<br>→ 2 · Black |
| **Horn** | **Horn button**<br>Connectors: JST SM plug | 2 · Red, then yellow after the connector · +, J6 |
| **Horn** | **Splice 1**<br>Connectors: JST SM plug | 1 · Black · Supply − |