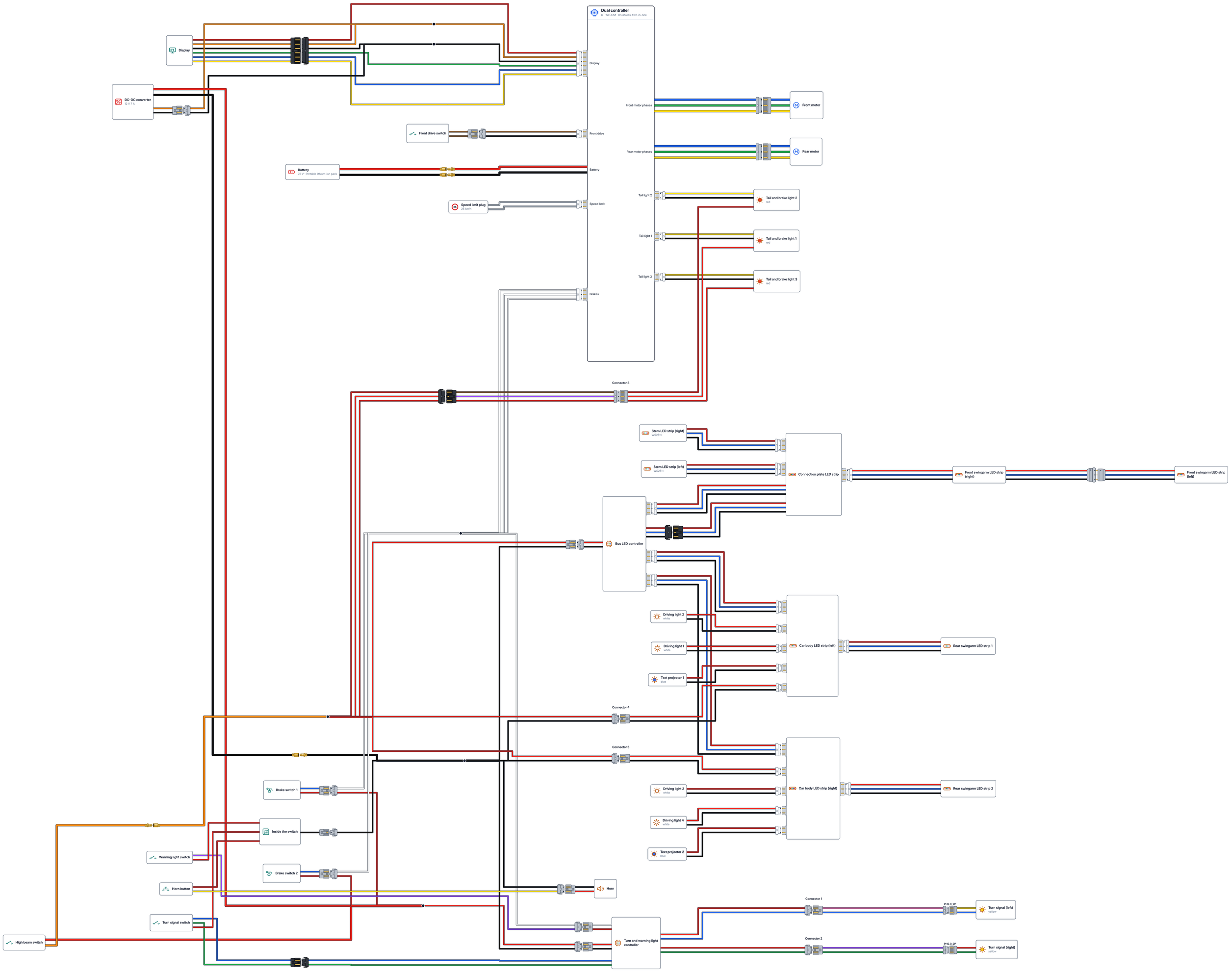
WIRING DIAGRAM

Dualtron Storm | 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
- 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.
2. The switch wires are marked J1 to J9: J1 and J2 on the high beam switch, J3 from inside the switch to ground, J4 and J5 on the turn signal switch, J6 on the horn button, J7 and J8 on the front motor 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 high beam 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. No headlight is drawn on the original.
5. 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_CON3 socket. The original does not say which wire goes to which pin.
6. The left turn light + is drawn red, but the label next to it says yellow.
7. The original distinguishes light shades (light brown, purple, green and blue), given here in their base colour: J7 is light brown, J8 brown. The DC-DC IN+ wire is marked orange and red: orange, then red at the DC-DC terminal.
8. Both brake switches carry the same "left / right" label, as do both rear swingarm strips. They are numbered 1 and 2.
9. 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.
10. The "PH2.0_2P×3" mark covers three neighbouring plugs near the controller: those of both turn lights and that of the tail lights, which nevertheless has 3 pins marked V+, DI and V−.
11. On each car body LED strip, both RGB headers are marked DO on the strip side. The input is the one coming from the bus LED controller.
12. A small unlabelled dark grey box is drawn on the leads of each text projector.
13. The original shows no throttle. Two round three-hole sockets are drawn on the battery, without label or wire.

DOCUMENT

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

Redrawn by FOHZSHOP on 1 November 2026.

Disconnect the battery before any work.

CONNECTOR PINOUT

Connector	To	Wire
Dual controller Front motor phases	**Front motor** 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
Battery Output	**Dual controller** Battery Connectors: Bullet connectors	Red · Battery + Black · Battery −
Display	**Splice 1** Connectors: JST SM plug	Red Orange Black Green Blue Yellow
Splice 1	**Dual controller** Display Connectors: Board header XH_6P TO_CON1	→ 6 · Red → 5 · Orange → 4 · Black → 3 · Green → 2 · Blue → 1 · Yellow
DC-DC converter Input	**Splice 1** Connectors: JST SM plug	Orange · IN+ Black · IN+
DC-DC converter Output	**Splice 3**	Red · +12 V
DC-DC converter Output	**Splice 2** Connectors: Bullet connectors	Black · Ground
Splice 3	**High beam switch**	Red · J1
Splice 5	**Dual controller** Brakes Connectors: Board header PH2.0_3P TO_CON3	→ 3 · White → 2 · White → 1 · White
Speed limit plug	**Dual controller** Speed limit Connectors: Board header PH2.0_2P TO_CON4	→ 1 · Grey → 2 · Grey
Brake switch 1	**Splice 5** Connectors: JST SM plug	Blue, then white after the connector
Brake switch 1	**Splice 3** Connectors: JST SM plug	Red
Brake switch 2	**Splice 5** Connectors: JST SM plug	Blue, then white after the connector

Connector	To	Wire
Brake switch 2	**Splice 3** Connectors: JST SM plug	Red
Front drive switch	**Dual controller** Front drive Connectors: JST SM plug / Board header PH2.0_2P TO_CON11	→ 2 · Brown · J7 → 1 · Brown, then black after the connector · J8
High beam switch	**Splice 4** Connectors: Bullet connectors	Orange · J2
Warning light switch	**Inside the switch** Warning	Red
Turn signal switch	**Turn and warning light controller** Turn signals Connectors: JST SM plug	Blue · J4, L Green · J5, R
Turn signal switch	**Inside the switch** Turn signals	Red
Horn button	**Inside the switch** Horn	Red
Inside the switch	**Splice 2** Connectors: JST SM plug	Black · J3
Horn	**Horn button** Connectors: JST SM plug	Red, then yellow after the connector · +, J6
Horn	**Splice 2** Connectors: JST SM plug	Black · −
Turn and warning light controller Input	**Splice 5** Connectors: JST SM plug	White · SC
Turn and warning light controller Input	**Warning light switch** Connectors: JST SM plug	Red, then violet after the connector · J5, J9
Turn and warning light controller Power	**Splice 3** Connectors: JST SM plug	Red · Supply +
Turn and warning light controller Power	**Splice 2** Connectors: JST SM plug	Black · Supply −
Turn and warning light controller Right turn signal	**Connector 2**	→ 2 · Red · RR+ → 1 · Green · RF−
Turn and warning light controller Left turn signal	**Connector 1**	→ 2 · Red · LF+ → 1 · Blue · LR−
Connector 1	**Turn signal (left)** Connectors: HY 2 mm plug PH2.0_2P	2 → 2 · Pink, then yellow after the connector · LED + 1 → 1 · Blue · LED −

Connector	To	Wire
Connector 2	**Turn signal (right)** Connectors: HY 2 mm plug PH2.0_2P	2 → 2 · Violet, then red after the connector · LED + 1 → 1 · Green · LED −
Connector 3	**Splice 4** Connectors: JST SM plug	1 · Brown, then red after the connector 2 · Violet, then red after the connector 3 · Red
Tail and brake light 1 Input 1	**Dual controller** Tail light 1 Connectors: Board header TO_CON5	→ 1 · Yellow · LED + → 2 · Black · LED −
Tail and brake light 1 Input 2	**Connector 3**	→ 1 · Red · LED +
Tail and brake light 2 Input 1	**Dual controller** Tail light 2 Connectors: Board header TO_CON6	→ 1 · Yellow · LED + → 2 · Black · LED −
Tail and brake light 2 Input 2	**Connector 3**	→ 2 · Red · LED +
Tail and brake light 3 Input 1	**Dual controller** Tail light 3 Connectors: Board header TO_CON7	→ 1 · Yellow · LED + → 2 · Black · LED −
Tail and brake light 3 Input 2	**Connector 3**	→ 3 · Red · LED +
Bus LED controller Power	**Splice 2** Connectors: JST SM plug	1 · Black
Bus LED controller Power	**Splice 4** Connectors: JST SM plug	2 · Red
Bus LED controller RGB output 1	**Connection plate LED strip** Input Connectors: Board header	Red · LED + Blue · LED data Black · LED −
Bus LED controller RGB output 2	**Car body LED strip (left)** Input Connectors: Board header / Board header	Red · LED + Blue · LED data Black · LED −
Bus LED controller RGB output 3	**Car body LED strip (right)** Input Connectors: Board header / Board header	Red · LED + Blue · LED data Black · LED −
Connection plate LED strip Output	**Bus LED controller** Input Connectors: JST SM plug	→ 1 · Red · LED + → 2 · Blue · LED data → 3 · Black · LED −
Connection plate LED strip RGB output 3	**Front swingarm LED strip (right)** Connectors: Board header	Red · LED + Blue · LED data Black · LED −

Connector	To	Wire
Stem LED strip (right)	**Connection plate LED strip** RGB output 1 Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Stem LED strip (left)	**Connection plate LED strip** RGB output 2 Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Front swingarm LED strip (right)	**Front swingarm LED strip (left)** 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 (left) Power	**Connector 4** Connectors: Board header	Red Black
Car body LED strip (right) Output	**Rear swingarm LED strip 2** Connectors: Board header	Red · LED + Blue · LED data Black · LED −
Car body LED strip (right) Power	**Connector 5** Connectors: Board header	Red Black
Connector 4	**Splice 4**	Red
Connector 4	**Splice 2**	Black
Connector 5	**Splice 4**	Red
Connector 5	**Splice 2**	Black
Driving light 1	**Car body LED strip (left)** LED output 1 Connectors: Board header	Red Black
Driving light 2	**Car body LED strip (left)** LED output 3 Connectors: Board header	Red Black
Driving light 3	**Car body LED strip (right)** LED output 2 Connectors: Board header	Red Black
Driving light 4	**Car body LED strip (right)** LED output 3 Connectors: Board header	Red Black
Text projector 1	**Car body LED strip (left)** LED output 2 Connectors: Board header	Red Black
Text projector 2	**Car body LED strip (right)** LED output 1 Connectors: Board header	Red Black