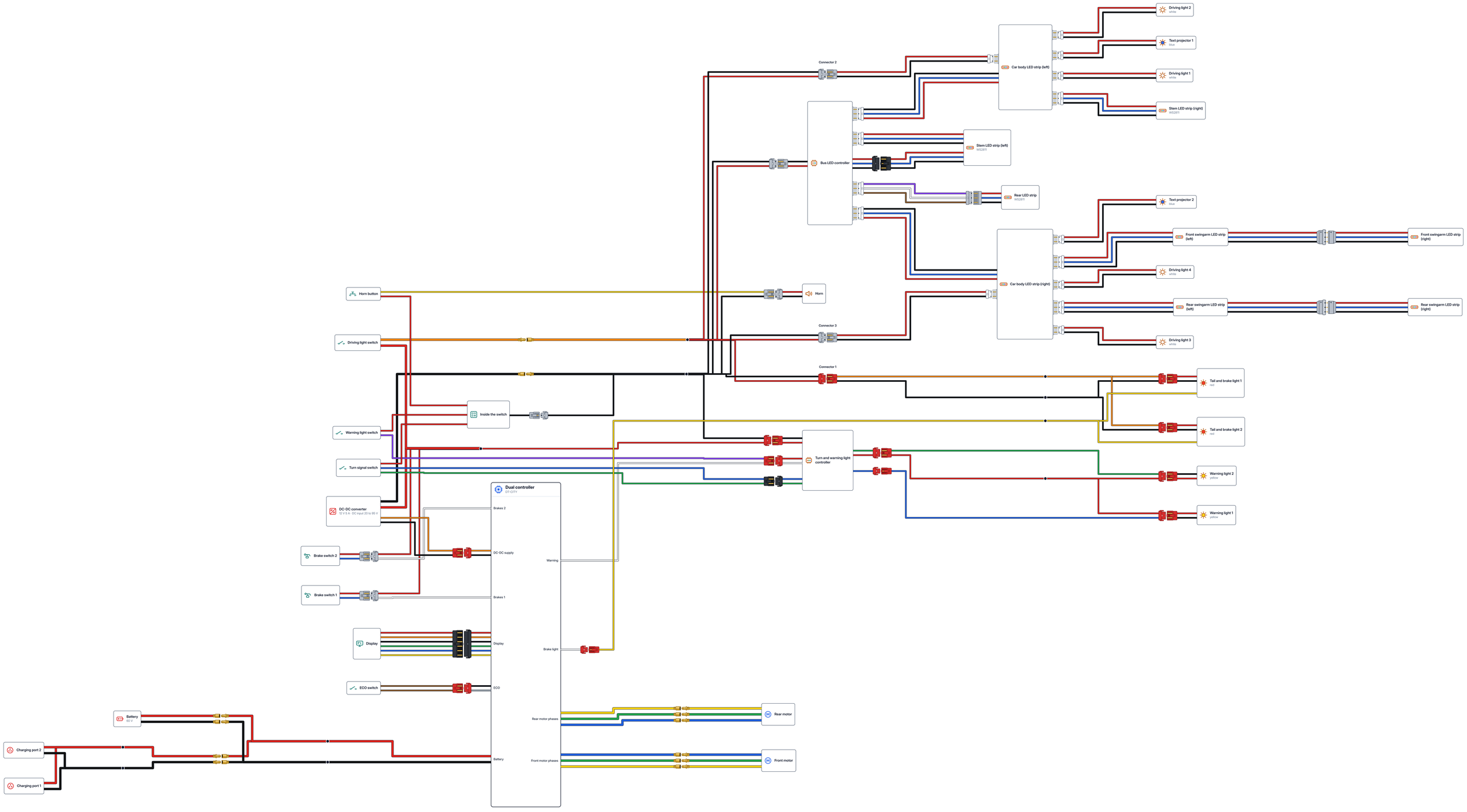
WIRING DIAGRAM

Dualtron City | 60 V

FOHZSHOP.FR



WIRE COLOURS

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

CONNECTORS

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

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

NOTES

1. On the original, the R position of the turn signal switch closes the J4 contact (blue), wired to input L of the turn and warning light controller, and the L position the J5 contact (green), wired to input R.
2. On the turn and warning light controller, output LR+ feeds the + of both yellow warning lights, LR− goes to light 2 and RR− to light 1. RR+ and the LF and RF outputs have no wire.
3. A note on the original states that both groups of lights, the yellow warning lights and the red tail lights, are on the mudguard.
4. The unmarked red wire of the horn button, of the warning light switch and of the turn signal switch, and the black wire J3, end at the Chinese mention "inside the switch". The original does not show what they connect to.
5. Marks J1 to J9 are printed on the original next to the switch wires.
6. J9 is drawn magenta but marked purple in Chinese. J7 is marked light brown, J8 brown, and the V− wire of the tail LED strip is the same light brown as J7. These wires are given here as purple and brown.
7. The ECO switch is named "ECO switch" in Chinese and "Front drive switch?" in English, question mark included.
8. Pin 2 of the turn signal switch plug, pin 2 of the J3 plug and pin 1 of the brake light plug at the controller have no wire. The left car body LED strip has a second DO header, connected to nothing.
9. A small unlabelled dark grey box is drawn on the leads of each text projector, and an unlabelled dark grey block on the left pole strip.
10. Both brake switches carry the same "left / right" label on the original, which does not say which one is on the left.
11. The original diagram shows neither a throttle nor a headlight.

DOCUMENT

Based on the manufacturer diagram "Schéma électrique DUALTRON City" dated 2 September 2021.

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: Bullet connectors	Blue · Motor phase Green · Motor phase Yellow · Motor phase
Dual controller Rear motor phases	**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 · IN+ 1 · Black · IN−
Battery	**Splice** Connectors: Bullet connectors	Red · Battery + Black · Battery −
Charging port 1	**Splice**	1 · Red · Charge + 3 · Black · Charge −
Charging port 2	**Splice**	1 · Red · Charge + 3 · Black · Charge −
Splice	**Splice** Connectors: Bullet connectors	Red · Charge + Black · Charge −
Splice	**Dual controller** Battery	Red · Battery + Black · Battery −
Display	**Dual controller** Display Connectors: JST SM plug	→ 6 · Red → 5 · Orange → 4 · Black → 3 · Green → 2 · Blue → 1 · Yellow
Brake switch 1	**Dual controller** Brakes 1 Connectors: JST SM plug	Blue, then white after the connector
Brake switch 1	**Splice** Connectors: JST SM plug	Red

Connector	To	Wire
Brake switch 2	**Dual controller** Brakes 2 Connectors: JST SM plug	Blue, then white after the connector
Brake switch 2	**Splice** Connectors: JST SM plug	Red
ECO switch	**Dual controller** ECO Connectors: JST SM plug	→ 1 · Brown, then black after the connector · J8 → 2 · Brown, then grey after the connector · J7
DC-DC converter Output	**Splice**	Red · +12 V
DC-DC converter Output	**Splice** Connectors: Bullet connectors	Black · Ground
Splice	**Connector 1**	→ 1 · Black
Splice	**Connector 2**	→ 1 · Black
Splice	**Connector 3**	→ 1 · Black
Driving light switch	**Splice**	Red · J1
Driving light switch	**Splice** Connectors: Bullet connectors	Orange · J2
Splice	**Connector 1**	→ 2 · Red
Splice	**Connector 2**	→ 2 · Red
Splice	**Connector 3**	→ 2 · Red
Warning light switch	**Inside the switch** Warning	Red
Turn signal switch	**Turn and warning light controller** Turn signals Connectors: JST SM plug	→ 1 · Blue · J4, L → 3 · Green · J5, R
Turn signal switch	**Inside the switch** Turn signals	Red

Connector	To	Wire
Horn button	**Inside the switch** Horn	Red
Inside the switch	**Splice** Connectors: JST SM plug	1 · Black · J3
Horn	**Horn button** Connectors: JST SM plug	2 · Red, then yellow after the connector · J6
Horn	**Splice** Connectors: JST SM plug	1 · Black · Ground
Turn and warning light controller Power	**Splice** Connectors: JST SM plug	2 · Red · Supply +
Turn and warning light controller Power	**Splice** Connectors: JST SM plug	1 · Black · Supply −
Turn and warning light controller Input	**Warning light switch** Connectors: JST SM plug	1 · Red, then violet after the connector · J5, J9
Turn and warning light controller Input	**Dual controller** Warning Connectors: JST SM plug	2 · White · SC
Turn and warning light controller Rear left turn signal	**Splice** Connectors: JST SM plug	2 · Red · LR+
Splice	**Warning light 1** Connectors: JST SM plug	→ 2 · Red · LED +
Splice	**Warning light 2** Connectors: JST SM plug	→ 2 · Red · LED +
Warning light 1	**Turn and warning light controller** Rear right turn signal Connectors: JST SM plug / JST SM plug	1 → 1 · Black, then blue after the connector · RR−
Warning light 2	**Turn and warning light controller** Rear left turn signal Connectors: JST SM plug / JST SM plug	1 → 1 · Black, then green after the connector · LR−
Connector 1	**Splice**	2 · Orange 1 · Black

Connector	To	Wire
Splice	**Tail and brake light 1** Running light Connectors: JST SM plug	→ 2 · Orange, then red after the connector · LED + → 1 · Black · LED −
Splice	**Tail and brake light 2** Running light Connectors: JST SM plug	→ 2 · Orange, then red after the connector · LED + → 1 · Black · LED −
Splice	**Tail and brake light 1** Brake light	Yellow · Brake light
Splice	**Tail and brake light 2** Brake light	Yellow · Brake light
Splice	**Dual controller** Brake light Connectors: JST SM plug	→ 2 · Yellow, then white after the connector · Brake light
Bus LED controller Power	**Splice** Connectors: JST SM plug	1 · Black
Bus LED controller Power	**Splice** Connectors: JST SM plug	2 · Red
Bus LED controller RGB output 1	**Stem LED strip (left)** Input Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Bus LED controller RGB output 3	**Car body LED strip (left)** Input Connectors: Board header	Black · LED − Blue · LED data Red · LED +
Bus LED controller RGB output 4	**Car body LED strip (right)** Input Connectors: Board header	Black · LED − Blue · LED data Red · LED +
Stem LED strip (left) Output	**Bus LED controller** Input Connectors: JST SM plug	→ 1 · Red · LED + → 2 · Blue · LED data → 3 · Black · LED −

Connector	To	Wire
Rear LED strip	**Bus LED controller** RGB output 2 Connectors: Connector (type not shown) / Board header	3 · Red, then violet after the connector · +12 V 2 · Blue, then white after the connector · LED data 1 · Black, then brown after the connector · Ground
Car body LED strip (left) Output	**Stem LED strip (right)** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Car body LED strip (left) LED output 1	**Driving light 1** Connectors: Board header	1 · Red 2 · Black
Car body LED strip (left) LED output 2	**Driving light 2** Connectors: Board header	1 · Red 2 · Black
Car body LED strip (left) LED output 3	**Text projector 1** Connectors: Board header	1 · Red · LED + 2 · Black · LED −
Car body LED strip (right) Output 1	**Front swingarm LED strip (left)** Connectors: Board header	Red · LED + Blue · LED data Black · Ground
Car body LED strip (right) Output 2	**Rear swingarm LED strip (left)** Connectors: Board header	Red · LED + Blue · LED data Black · Ground
Car body LED strip (right) LED output 1	**Driving light 3** Connectors: Board header	1 · Red 2 · Black
Car body LED strip (right) LED output 2	**Driving light 4** Connectors: Board header	1 · Red 2 · Black
Car body LED strip (right) LED output 3	**Text projector 2** Connectors: Board header	1 · Red · LED + 2 · Black · LED −
Connector 2	**Car body LED strip (left)** Power Connectors: Board header	2 → 1 · Red 1 → 2 · Black
Connector 3	**Car body LED strip (right)** Power Connectors: Board header	2 → 1 · Red 1 → 2 · Black
Front swingarm LED strip (left)	**Front swingarm LED strip (right)** Connectors: Round waterproof plug	Red Blue Black
Rear swingarm LED strip (left)	**Rear swingarm LED strip (right)** Connectors: Round waterproof plug	Red Blue Black