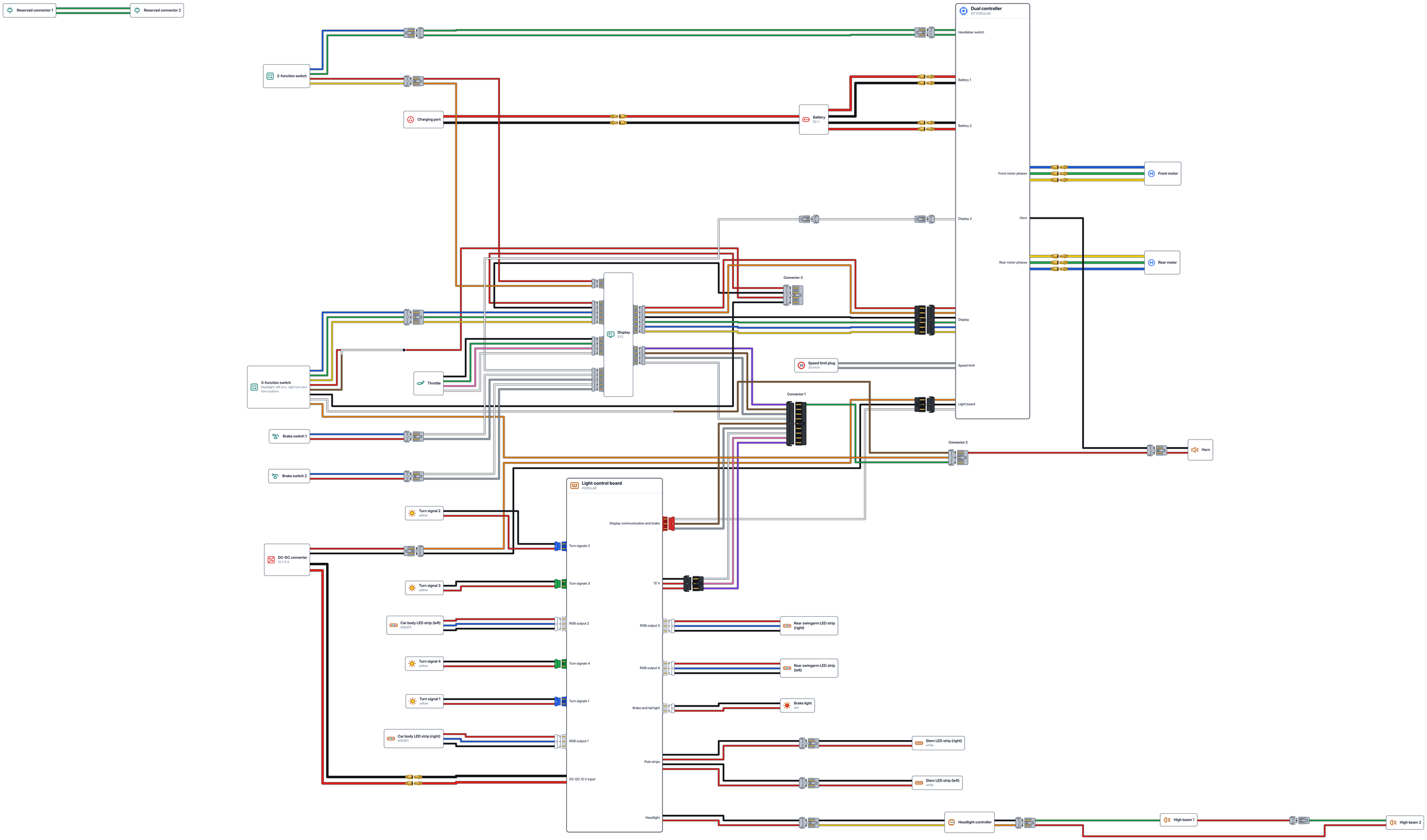
WIRING DIAGRAM

Dualtron Pop Dual | 52 V

FOHZSHOP.FR



WIRE COLOURS

- Black BK
- Blue BU
- Brown BN
- Clear TR
- 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.

JST SM plug

Board header

Bullet connectors

Splice: wires are joined at this point

NOTES

1. The original document holds two diagrams: the dual motor version (pages 1 and 3, identical) and the single motor version (page 2, dated 6 November 2023). This diagram shows the dual motor version.
2. On the light board side, ten wires run in one sleeve, and thirteen on the display side. The original names them 10-core cable and 13-core cable. Both sleeves meet at connector 1.
3. The transparent wires are drawn pale pink on the original, marked "transparent" in Chinese.
4. The violet wire of pin 5 of connector 1 reaches the display pink; the colour change is hidden under the sleeve, the original does not show where it happens.
5. On the original, the thick black wire leaves the OUT+ terminal of the DC-DC converter and the thick red wire the OUT− terminal.
6. The + of headlight 1 reaches the − of headlight 2 through pin 1 of a two-pin connector whose pin 2 is not wired. The − terminals of both headlights leave black, then continue green, with no connector drawn in between.
7. Below the 2-function switch, the orange wire turns yellow, with no connector drawn in between. The blue and green wires carry a dot at the same place, with no other wire joined.
8. Below the 3-function switch, the wire that turns white leaves light brown, and the orange wire continues darker orange, with no connector drawn in between.
9. The dark green wires of the original are redrawn green: those of the 2-function switch after its connector and the pair linking both spare connectors.
10. Both spare connectors are linked to each other by two wires of the 10-core cable, with nothing plugged on their other side on the original.
11. Both brake switches are labelled together "left / right" on the original, which does not say which one is on the left.
12. The four yellow lights are labelled "warning / turn light" on the original, which does not say which ones are on the left or on the right.
13. On the original, the Chinese label of the two swingarm strips says "rear left" and "rear right", but their English label says "Front_L_baibi_RGB LED" and "Front_R_baibi_RGB LED" (front). This diagram follows the Chinese label.

DOCUMENT

Based on the manufacturer diagram "Schéma électrique DUALTRON Pop" dated 21 September 2023.

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
Light control board Display communication and brake	**Dual controller** Light board Connectors: Board header / JST SM plug	1 → 3 · White
Light control board Display communication and brake	**Connector 1** Connectors: Board header	2 → 4 · Brown 3 → 3 · Grey
Light control board 12 V	**Connector 1** Connectors: JST SM plug	1 → 1 · Black, then clear after the connector 2 → 2 · Red, then pink after the connector 3 → 5 · Red, then violet after the connector
Light control board RGB output 1	**Car body LED strip (right)** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Light control board RGB output 2	**Car body LED strip (left)** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Light control board RGB output 3	**Rear swingarm LED strip (right)** Connectors: Board header	Red Blue Black
Light control board RGB output 4	**Rear swingarm LED strip (left)** Connectors: Board header	Red Blue Black
Light control board Pole strips	**Stem LED strip (right)** Connectors: JST SM plug	1 · Black · Ground 2 · Red · +12 V

Connector	To	Wire
Light control board Pole strips	**Stem LED strip (left)** Connectors: JST SM plug	1 · Black · Ground 2 · Red · +12 V
Light control board Brake and tail light	**Brake light** Connectors: Board header	Black · LED − Red · LED +
Light control board Turn signals 1	**Turn signal 1** Connectors: Board header	Black · LED − Red · LED +
Light control board Turn signals 2	**Turn signal 2** Connectors: Board header	Black · LED − Red · LED +
Light control board Turn signals 3	**Turn signal 3** Connectors: Board header	Black · LED − Red · LED +
Light control board Turn signals 4	**Turn signal 4** Connectors: Board header	Black · LED − Red · LED +
Light control board Headlight	**Headlight controller** Input Connectors: JST SM plug	1 · Black 2 · Red, then yellow after the connector
Battery Output	**Dual controller** Battery 1 Connectors: Bullet connectors	Red · Battery + Black · Battery −
Battery Output	**Dual controller** Battery 2 Connectors: Bullet connectors	Black · Battery − Red · Battery +
Charging port	**Battery** Charge Connectors: Bullet connectors	1 · Red · Charge + 3 · Black · Charge −
Speed limit plug	**Dual controller** Speed limit	Grey Grey
DC-DC converter Output	**Light control board** DC-DC 12 V input Connectors: Bullet connectors	Black · OUT+ Red · OUT−

Connector	To	Wire
DC-DC converter Input	**Dual controller** Light board Connectors: JST SM plug / JST SM plug	2 → 2 · Red, then orange after the connector · IN+ 1 → 1 · Black · IN−
Display Brakes	**Dual controller** Display 2 Connectors: Board header / JST SM plug / JST SM plug	2 → 2 · White
Display Controller	**Dual controller** Display Connectors: Board header / JST SM plug	1 · Red 2 · Orange 3 · Black 4 · Green 5 · Blue 6 · Yellow
Throttle	**Display** Throttle Connectors: Board header	1 · Black 2 · Green 3 · Pink 4 · White
2-function switch	**Display** Handlebar switch 2 Connectors: JST SM plug / Board header	1 · Red 2 · Yellow, then orange after the connector
2-function switch	**Dual controller** Handlebar switch Connectors: JST SM plug / JST SM plug	1 · Blue, then green after the connector 2 · Green
3-function switch	**Connector 2**	1 · White, then brown 2 · Orange
3-function switch	**Splice**	Red Brown, then white
3-function switch	**Connector 3**	1 · Black
3-function switch	**Display** Handlebar switch 3 Connectors: JST SM plug / Board header	3 → 3 · Blue 2 → 4 · Green 1 → 5 · Yellow

Connector	To	Wire
Brake switch 1	**Display** Brakes Connectors: JST SM plug / Board header	1 · Blue, then white after the connector 2 · Red, then grey after the connector
Brake switch 2	**Display** Brakes Connectors: JST SM plug / Board header	1 · Blue, then white after the connector 2 · Red, then grey after the connector
Headlight controller Output	**High beam 1** Connectors: JST SM plug	1 · Black, then green after the connector · LED −
Headlight controller Output	**High beam 2** Connectors: JST SM plug	2 · Orange, then red after the connector · LED +
High beam 1	**High beam 2** Connectors: JST SM plug	1 · Red, then green after the connector
Horn	**Dual controller** Horn Connectors: JST SM plug	1 · Black · Supply −
Connector 1	**Display** Light board Connectors: Board header	5 → 1 · Violet, then pink after the connector 4 → 2 · Brown 3 → 3 · Grey 1 → 4 · Clear
Connector 1	**Connector 2**	2 → 2 · Green
Connector 2	**Horn** Connectors: JST SM plug	1 → 2 · Red · Supply +
Connector 3	**Display** Handlebar switch 3 Connectors: Board header	2 → 1 · Red 1 → 2 · Black
Splice	**Connector 3**	2 · Red
Reserved connector 1	**Reserved connector 2**	1 · Green 2 · Green