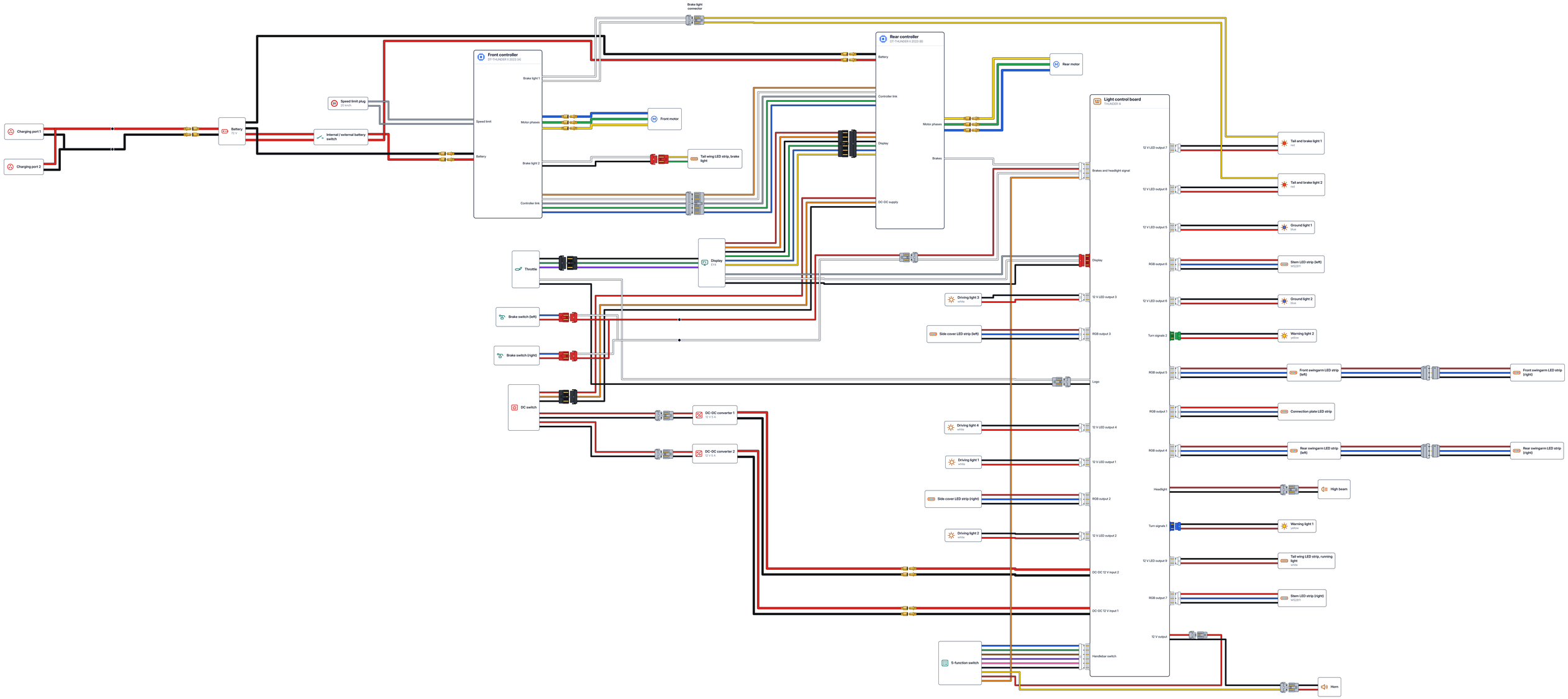
WIRING DIAGRAM

Dualtron Thunder 2 2024 | 72 V

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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.

- Bullet connectors
- Board header
- Splice: wires are joined at this point
- JST SM plug
- Round waterproof plug

NOTES

1. The internal / external battery switch selects the battery feeding both controllers. The external battery connection is not shown on the original diagram.
2. The RGB strips are addressable LEDs with three wires: supply (V+), data (DI) and ground (V-).
3. Both brake switches are wired in parallel to the light board, which passes the brake signal to the rear controller. The brake lights (yellow wire of the tail lights and the tail-wing strip) are wired to the front controller.
4. On the original diagram, the LEDs of the tail-wing brake strip are marked "white", like those of the running-light strip.
5. On the original, the light board has free connectors: one of its eight RGB connectors and two of its four turn signal connectors. Of its two headlight outputs, only one is connected; the other only has two short wires, red and black, connected to nothing.
6. On the original, the light board carries the reference "THUNDERIII" and both controllers the marking "DT-THUNDERII 2023".

DOCUMENT

Based on the manufacturer diagram "Schéma électrique DUALTRON Thunder 2 2024" dated 18 May 2023.

Redrawn by FOHZShop on 1 November 2026.

Disconnect the battery before any work.

CONNECTOR PINOUT

Connector	To	Wire
Front controller Motor phases	**Front motor** Connectors: Bullet connectors	Blue · Motor phase Green · Motor phase Yellow · Motor phase
Front controller Controller link	**Rear controller** Controller link Connectors: JST SM plug	Orange White Grey Green Blue
Rear controller Motor phases	**Rear motor** Connectors: Bullet connectors	Yellow · Motor phase Green · Motor phase Blue · Motor phase
Rear controller DC-DC supply	**DC switch** Input Connectors: JST SM plug	Red Orange Black
Light control board Logo	**Throttle** Logo Connectors: JST SM plug	White Black
Light control board Brakes and headlight signal	**Rear controller** Brakes Connectors: Board header	White · Brake signal
Light control board Headlight	**High beam** Connectors: JST SM plug	Red · LED + Black · LED –
Light control board RGB output 1	**Connection plate LED strip** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Light control board RGB output 2	**Side cover LED strip (right)** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Light control board RGB output 3	**Side cover LED strip (left)** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Light control board RGB output 4	**Rear swingarm LED strip (left)** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Light control board RGB output 5	**Front swingarm LED strip (left)** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Light control board RGB output 6	**Stem LED strip (left)** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Light control board RGB output 7	**Stem LED strip (right)** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Light control board Turn signals 1	**Warning light 1** Connectors: Board header	Black · LED – Red · LED +
Light control board Turn signals 2	**Warning light 2** Connectors: Board header	Black · LED – Red · LED +
Light control board 12 V LED output 1	**Driving light 1** Connectors: Board header	Black · LED – Red · LED +
Light control board 12 V LED output 2	**Driving light 2** Connectors: Board header	Black · LED – Red · LED +
Light control board 12 V LED output 3	**Driving light 3** Connectors: Board header	Black · LED – Red · LED +
Light control board 12 V LED output 4	**Driving light 4** Connectors: Board header	Black · LED – Red · LED +
Light control board 12 V LED output 5	**Ground light 1** Connectors: Board header	Black · LED – Red · LED +
Light control board 12 V LED output 6	**Ground light 2** Connectors: Board header	Black · LED – Red · LED +

Connector	To	Wire
Light control board 12 V LED output 7	**Tail and brake light 1** Running light Connectors: Board header	Black · LED – Red · LED +
Light control board 12 V LED output 8	**Tail and brake light 2** Running light Connectors: Board header	Black · LED – Red · LED +
Light control board 12 V LED output 9	**Tail wing LED strip, running light** Connectors: Board header	Black · Ground Red · +12 V
Battery Output	**Internal / external battery switch** Input	Red · Battery + Red · Battery +
Battery Output	**Front controller** Battery Connectors: Bullet connectors	Black · Battery –
Battery Output	**Rear controller** Battery Connectors: Bullet connectors	Black · Battery –
Charging port 1	**Splice**	Red · Charge + Black · Charge –
Charging port 2	**Splice**	Red · Charge + Black · Charge –
Splice	**Battery** Charge Connectors: Bullet connectors	Red · Charge + Black · Charge –
Internal / external battery switch Output	**Front controller** Battery Connectors: Bullet connectors	Red · Battery +
Internal / external battery switch Output	**Rear controller** Battery Connectors: Bullet connectors	Red · Battery +

Connector	To	Wire
Display Controller	**Rear controller** Display Connectors: JST SM plug	Red Orange Black Green Blue Yellow
Display Light board	**Light control board** Display Connectors: Board header	Grey White Black
Throttle	**Display** Throttle Connectors: JST SM plug	Black Green Violet
5-function switch	**Light control board** Handlebar switch Connectors: Board header	Blue Green Brown Violet Pink Black
5-function switch	**Light control board** Brakes and headlight signal Connectors: Board header	Orange · Headlight control
5-function switch	**Light control board** 12 V output Connectors: JST SM plug	Red · +12 V
Brake switch (left)	**Splice** Connectors: JST SM plug	Blue, then white after the connector · Brake signal Red · +12 V
Brake switch (right)	**Splice** Connectors: JST SM plug	Blue, then white after the connector · Brake signal Red · +12 V
Splice	**Light control board** Brakes and headlight signal Connectors: JST SM plug | Board header	Red · +12 V White · Brake signal

Connector	To	Wire
Speed limit plug	**Front controller** Speed limit	Grey Grey
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 2 Connectors: Bullet connectors	Red · +12 V Black · Ground
DC-DC converter 2 Output	**Light control board** DC-DC 12 V input 1 Connectors: Bullet connectors	Red · +12 V Black · Ground
Horn	**5-function switch** Connectors: JST SM plug	Red, then yellow after the connector · Horn
Horn	**Light control board** 12 V output Connectors: JST SM plug	Black · Ground
Tail and brake light 1 Brake light	**Brake light connector**	Yellow · Brake light
Tail and brake light 2 Brake light	**Brake light connector**	Yellow · Brake light
Brake light connector	**Front controller** Brake light 1	White · Brake light White · Brake light
Rear swingarm LED strip (left)	**Rear swingarm LED strip (right)** Connectors: Round waterproof plug	Red · LED + Blue · LED data Black · LED –
Front swingarm LED strip (left)	**Front swingarm LED strip (right)** Connectors: Round waterproof plug	Red · LED + Blue · LED data Black · LED –
Tail wing LED strip, brake light	**Front controller** Brake light 2 Connectors: JST SM plug	Yellow, then white after the connector · Brake light Green, then black after the connector · Ground