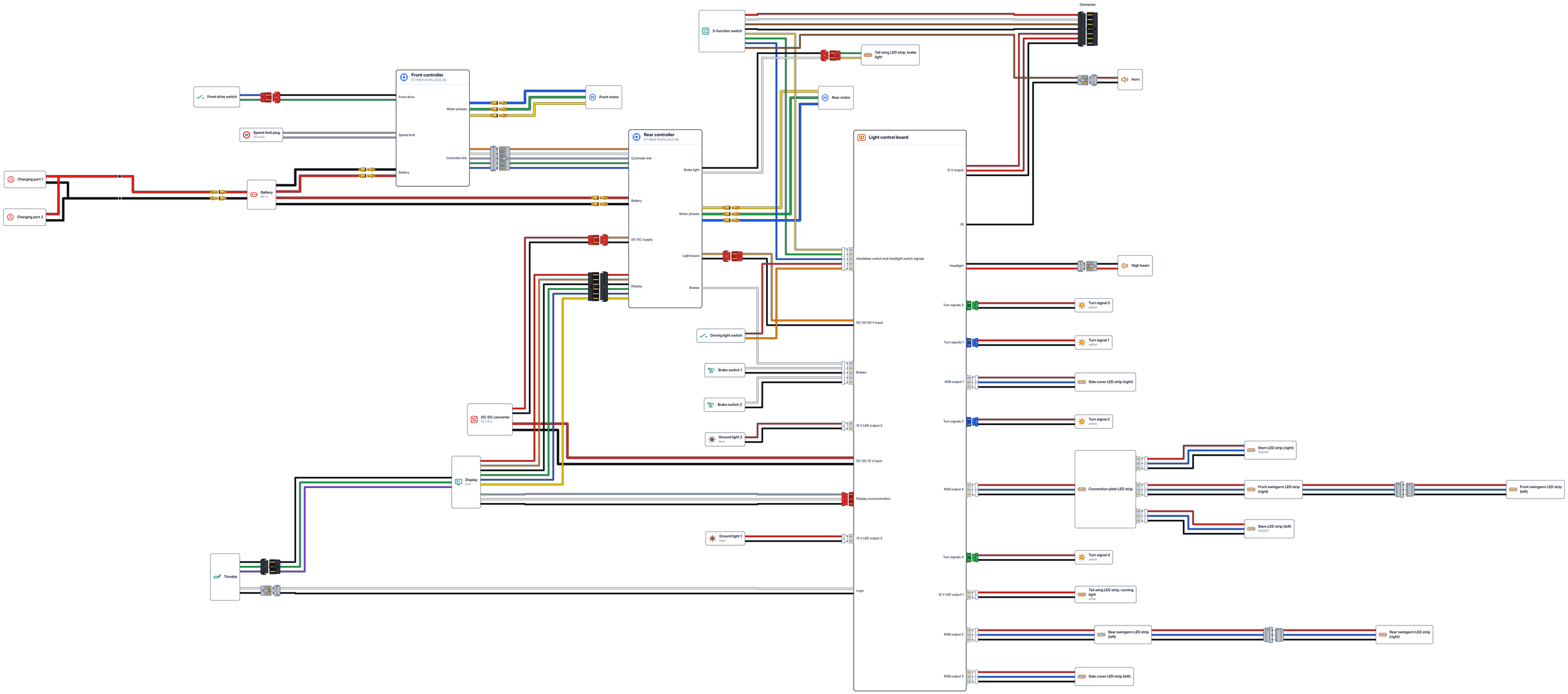
WIRING DIAGRAM

Dualtron Achilleus | 60 V

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WIRE COLOURS

- Black BK
- Blue BU
- Brown BN
- Green GN
- Grey GY
- Orange OG
- 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 four yellow lights are named "turn / warning light" on the original, which does not say which ones are left or right, front or rear.
2. Both brake switches carry the same "left / right" label on the original, which does not say which one is on the left.
3. On the black plug of the light board 12 V output, pin 3 feeds two wires on the switch side, the red one and the white one, joined by a junction dot on the original.
4. The black wire from the horn – goes to a light board output marked only "JS" on the original.
5. Two switch wires are drawn light brown, in two different shades, and redrawn brown: the one on pin 2 of the 12 V plug and the horn one. The horn one leaves the switch orange for a short stretch.
6. The connection panel has a U+ / OUT / U– output whose three wires are connected to nothing on the original.
7. On the original, two of the five "12 V LED" connectors of the light board are free, pin 6 of the switch signal connector has no wire, and both 3-hole charging ports only use pins 1 (red) and 3 (black).
8. The RGB strips are addressable LEDs with three wires: supply (V+), data (DI) and ground (V-).
9. On the original diagram, the LEDs of the tail-wing brake strip are marked "white", like those of the running-light strip.

DOCUMENT

Based on the manufacturer diagram "Schéma électrique DUALTRON Achilleus 2024" dated 14 August 2023.

Redrawn by FohzShop on 31 October 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	1 · Orange 2 · White 3 · Grey 4 · Green 5 · Blue
Rear controller Motor phases	**Rear motor** Connectors: Bullet connectors	Yellow · Motor phase Green · Motor phase Blue · Motor phase
Light control board DC-DC 60 V input	**Rear controller** Light board Connectors: JST SM plug	→ 2 · Orange → 1 · Black
Light control board Logo	**Throttle** Logo Connectors: JST SM plug	→ 2 · White → 1 · Black
Light control board Brakes	**Rear controller** Brakes Connectors: Board header	5 · White · Brake signal
Light control board 12 V output	**Connector**	→ 3 · Red · +12 V → 2 · Red · +12 V → 1 · Black · Ground
Light control board Headlight	**High beam** Connectors: JST SM plug	→ 1 · Black · LED – → 2 · Red · LED +

Connector	To	Wire
Light control board Turn signals 1	**Turn signal 1** Connectors: Board header	1 · Red · LED + 2 · Black · LED –
Light control board Turn signals 2	**Turn signal 2** Connectors: Board header	Red · LED + Black · LED –
Light control board Turn signals 3	**Turn signal 3** Connectors: Board header	Red · LED + Black · LED –
Light control board Turn signals 4	**Turn signal 4** Connectors: Board header	1 · Red · LED + 2 · Black · LED –
Light control board 12 V LED output 1	**Tail wing LED strip, running light** Connectors: Board header	Red · +12 V Black · Ground
Light control board 12 V LED output 2	**Ground light 1** Connectors: Board header	Red Black
Light control board 12 V LED output 3	**Ground light 2** Connectors: Board header	Red Black
Light control board RGB output 1	**Side cover LED strip (right)** Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Light control board RGB output 2	**Rear swingarm LED strip (left)** 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 –

Connector	To	Wire
Light control board RGB output 4	**Connection plate LED strip** Input Connectors: Board header	Red · LED + Blue · LED data Black · LED –
Battery Output	**Front controller** Battery Connectors: Bullet connectors	Black · Battery – Red · Battery +
Battery Output	**Rear controller** Battery 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	**Battery** Charge Connectors: Bullet connectors	Red · Charge + Black · Charge –
Display Controller	**Rear controller** Display Connectors: JST SM plug	Red Orange Black Green Blue Yellow
Display Light board	**Light control board** Display communication Connectors: Board header	→ 1 · Grey → 2 · White → 3 · Black

Connector	To	Wire
Throttle	**Display** Throttle Connectors: JST SM plug	1 · Black 2 · Green 3 · Violet
3-function switch	**Light control board** Handlebar switch and headlight switch signals Connectors: Board header	→ 3 · Yellow → 2 · Green → 1 · Blue
Driving light switch	**Light control board** Handlebar switch and headlight switch signals Connectors: Board header	→ 5 · Red → 4 · Orange
Front drive switch	**Front controller** Front drive Connectors: JST SM plug	1 · Blue, then black after the connector 2 · Green
Brake switch 1	**Light control board** Brakes Connectors: Board header	→ 4 · White → 2 · Black
Brake switch 2	**Light control board** Brakes Connectors: Board header	→ 3 · White → 1 · Black
Speed limit plug	**Front controller** Speed limit	Grey Grey
DC-DC converter Input	**Rear controller** DC-DC supply Connectors: JST SM plug	→ 2 · Red, then orange after the connector · IN+ → 1 · Black · IN–
DC-DC converter Output	**Light control board** DC-DC 12 V input	Red · +12 V Black · Ground

Connector	To	Wire
Connector	**3-function switch**	3 · Red · +12 V 3 · White · +12 V 2 · Brown · +12 V 1 · Black · Ground
Horn	**3-function switch** Connectors: JST SM plug	2 · Red, then brown after the connector · Horn
Horn	**Light control board** JS Connectors: JST SM plug	1 · Black
Tail wing LED strip, brake light	**Rear controller** Brake light Connectors: JST SM plug	1 · Green, then black after the connector · Ground 2 · Yellow, then white after the connector · Brake light
Connection plate LED strip Output 1	**Stem LED strip (right)** Connectors: Board header	Red · +12 V Blue · LED data Black · Ground
Connection plate LED strip Output 2	**Front swingarm LED strip (right)** Connectors: Board header	Red Blue Black
Connection plate LED strip Output 3	**Stem LED strip (left)** 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
Rear swingarm LED strip (left)	**Rear swingarm LED strip (right)** Connectors: Round waterproof plug	Red Blue Black