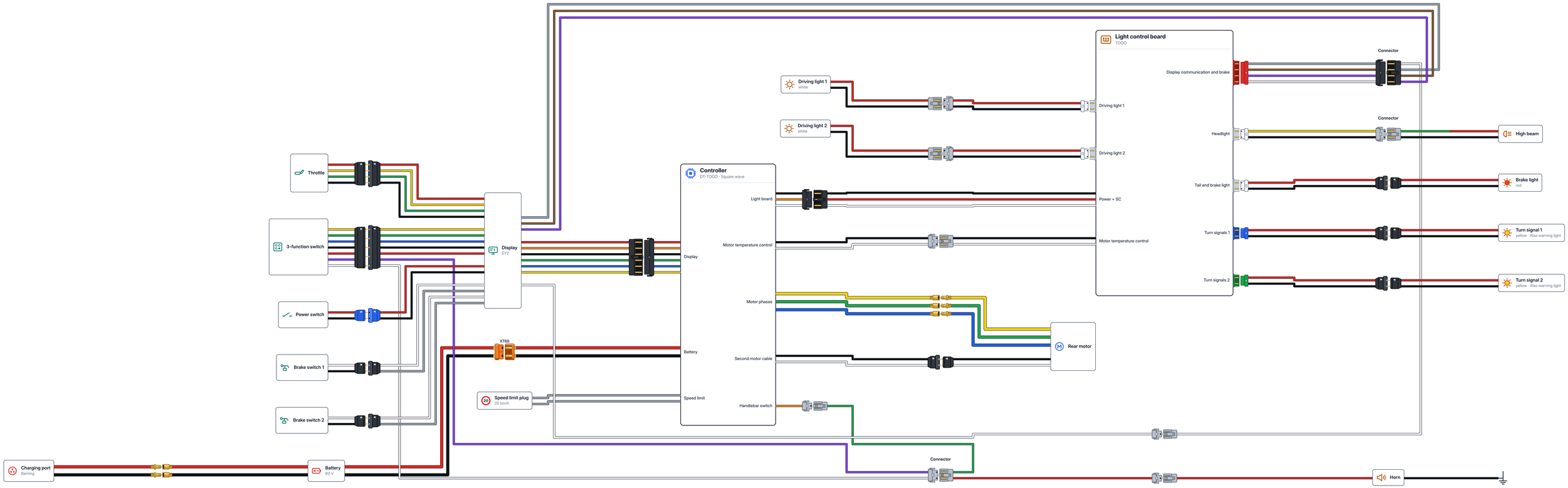
WIRING DIAGRAM

Dualtron Togo Limited | 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.

- JST SM plug
- Board header
- XT60
- Round waterproof plug
- Bullet connectors
- Ground: every ground symbol is connected to the others

NOTES

1. Both brake switches carry the same "left / right" label on the original, which does not say which one is on the left. They are numbered 1 and 2.
2. On each brake cable, the black wire goes through the waterproof plug black and reaches the display plug grey. The original hides this colour change under the sleeve; it is drawn here at the plug.
3. The waterproof plugs follow the original's legend: a red block marked "waterproof male plug" and a black block marked "waterproof female plug". The original gives neither their reference nor their housing colour.
4. The waterproof plug of the on/off switch also carries the word "blue" in Chinese.
5. The 10-wire cable running down from the display carries the six controller wires and the four light board wires. Three of these four wires leave one display plug; the white one leaves the brake plug and goes through a grey two-pin plug.
6. The grey two-pin plugs on the white display wire, on the horn wire and on the orange controller wire have only one pin wired.
7. The high beam + wire leaves the headlight red and comes out of the sleeve green, with no connector in between, then turns yellow after the grey plug.
8. The horn − goes to a ground symbol (GND), with no wire drawn to the battery or the controller.
9. On the light board, the three wires going to the controller carry two overlapping labels, "36V+SC" and "power + SC" in Chinese, while the battery is 60 V.
10. The light board has four turn signal headers, two blue and two green. Only the second (blue) and the third (green) are wired on the original, numbered 1 and 2 here. No side is given for the two yellow lights.
11. The rear motor has a second two-wire cable, black and white, joined to the controller through a waterproof plug. The original does not give its function.

DOCUMENT

Based on the manufacturer diagram "Schéma électrique DUALTRON Togo limited" dated 13 May 2024.

Redrawn by FõhzShop on 1 November 2026.

Disconnect the battery before any work.

CONNECTOR PINOUT

Connector	To	Wire
Controller Motor phases	**Rear motor** Connectors: Bullet connectors	Yellow · Motor phase Green · Motor phase Blue · Motor phase
Light control board Power + SC	**Controller** Light board Connectors: JST SM plug	1 · Black → 2 · Red, then orange after the connector → 3 · White
Light control board Motor temperature control	**Controller** Motor temperature control Connectors: JST SM plug	Black White
Light control board Driving light 1	**Driving light 1** Connectors: Board header / JST SM plug	Red Black
Light control board Driving light 2	**Driving light 2** Connectors: Board header / JST SM plug	Red Black
Light control board Tail and brake light	**Brake light** Connectors: Board header / Round waterproof plug	Red · LED + Black · LED −
Light control board Turn signals 1	**Turn signal 1** Connectors: Board header / Round waterproof plug	Red · LED + Black · LED −
Light control board Turn signals 2	**Turn signal 2** Connectors: Board header / Round waterproof plug	Red · LED + Black · LED −

Connector	To	Wire
Battery Output	**Controller** Battery Connectors: XT60	Red · Battery + Black · Battery −
Charging port	**Battery** Charge Connectors: Bullet connectors	1 · Red · Charge + 3 · Black · Charge −
Rear motor	**Controller** Second motor cable Connectors: Round waterproof plug	Black White
Speed limit plug	**Controller** Speed limit	Grey Grey
Display Controller	**Controller** Display Connectors: JST SM plug	1 · Red 2 · Orange 3 · Black 4 · Green 5 · Blue 6 · Yellow
Display Brakes	**Connector** Display Connectors: JST SM plug	White

Connector	To	Wire
Display Light board	**Connector** Display	3 · Grey 2 · Brown 1 · Violet
Throttle	**Display** Throttle Connectors: Round waterproof plug	→ 1 · Red → 2 · Yellow → 3 · Green → 4 · Black
3-function switch	**Display** Handlebar switch Connectors: Round waterproof plug	→ 1 · Yellow → 2 · Green → 3 · Blue → 4 · Black → 5 · Red
3-function switch	**Connector** Switch Connectors: Round waterproof plug	Violet White
Power switch	**Display** Power Connectors: Round waterproof plug	Red Black
Brake switch 1	**Display** Brakes Connectors: Round waterproof plug	White Black, then grey after the connector

Connector	To	Wire
Brake switch 2	**Display** Brakes Connectors: Round waterproof plug	White Black, then grey after the connector
Connector Light board	**Light control board** Display communication and brake Connectors: Board header	→ 2 · Grey → 3 · Brown → 4 · Violet → 1 · White
Connector Output	**Horn** Connectors: JST SM plug	Red · Horn
Connector Output	**Controller** Handlebar switch Connectors: JST SM plug	Green, then orange after the connector
High beam	**Connector**	Red, then green · LED + Black · LED −
Connector	**Light control board** Headlight Connectors: Board header	→ 1 · Yellow · LED + → 2 · Black · LED −
Horn	**Ground**	Black · Ground