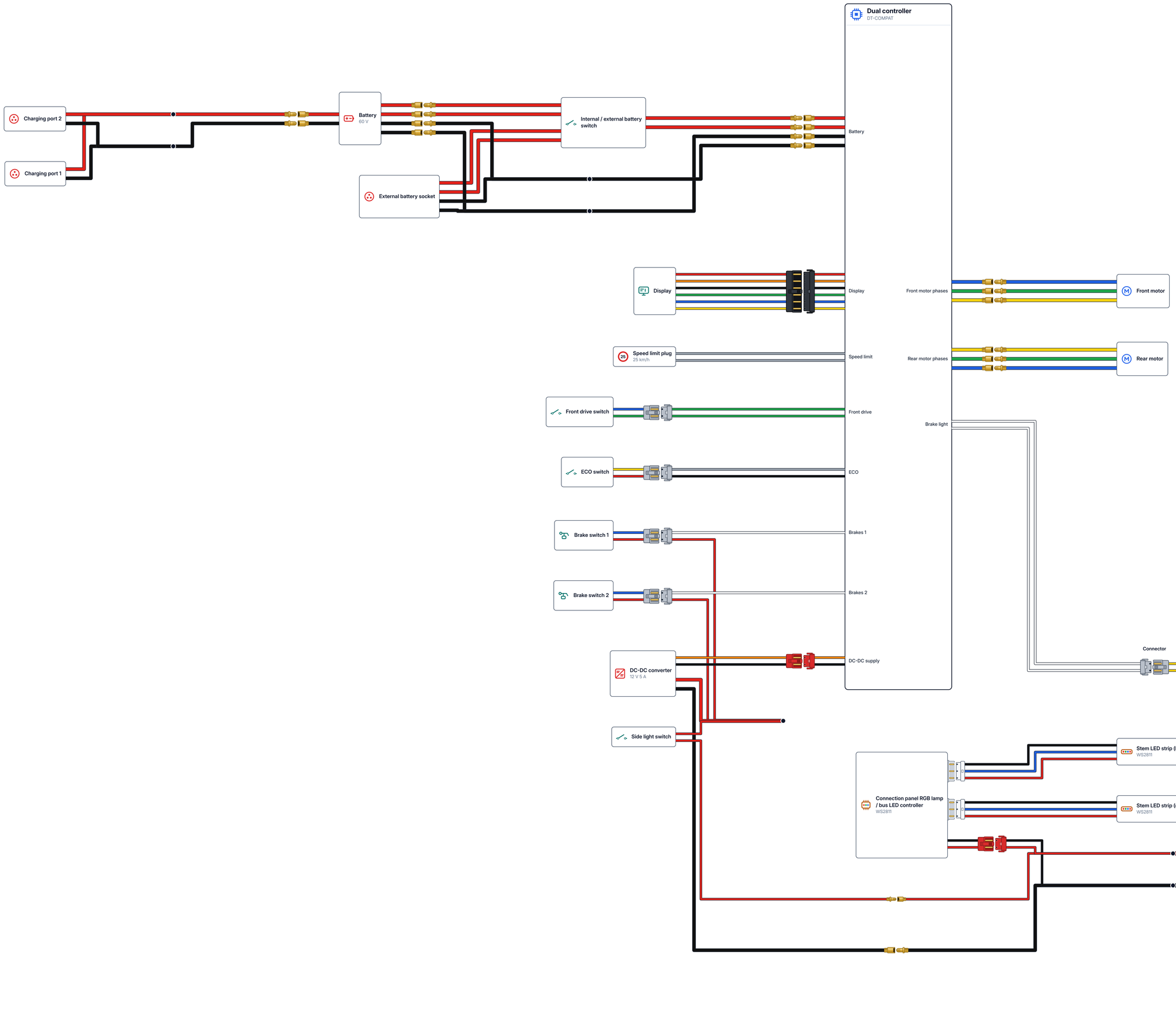
WIRING DIAGRAM

Dualtron Compact | 60 V

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WIRE COLOURS

- Black BK
- Blue BU
- Green GN
- Grey GY
- Orange OG
- Red RD
- White WH
- Yellow YE

CONNECTORS

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

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

NOTES

1. The internal / external battery switch connects the two controller + wires either to the 60 V battery (“Built-in battery” position) or to pins 1 and 2 of the 4-hole external battery socket (“External battery” position). Pins 3 and 4 of that socket are permanently joined to the two black battery wires, which go to the controller. The external battery itself is not shown.
2. On the original, the connection panel is named both “connection panel lamp” and “bus LED controller”: it feeds the two pole strips. It also carries a part marked “IR”.
3. The side light switch feeds 12 V to all the lights and to the connection panel.
4. Both brake switches carry the same “left / right” label on the original, which does not say which one is on the left.
5. The original spells DT-COMPAT, without the second C, for the controller and the file name.
6. The original diagram shows no throttle.

DOCUMENT

Based on the manufacturer diagram “Schéma électrique DUALTRON Compact” dated 11 May 2023.

Redrawn by FõhzShop 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 Output	**Internal / external battery switch** Input 1 Connectors: Bullet connectors	Red · Battery + Red · Battery +
Battery Output	**Splice** Connectors: Bullet connectors	Black · 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 −
External battery socket	**Internal / external battery switch** Input 2	1 · Red · Battery + 2 · Red · Battery +
External battery socket	**Splice**	4 · Black · Battery − 3 · Black · Battery −
Internal / external battery switch Output	**Dual controller** Battery Connectors: Bullet connectors	Red · Battery + Red · Battery +

Connector	To	Wire
Splice	**Dual controller** Battery Connectors: Bullet connectors	Black · Battery − Black · Battery −
Display	**Dual controller** Display Connectors: JST SM plug	Red Orange Black Green Blue Yellow
Speed limit plug	**Dual controller** Speed limit	Grey Grey
Front drive switch	**Dual controller** Front drive Connectors: JST SM plug	Blue, then green after the connector Green
ECO switch	**Dual controller** ECO Connectors: JST SM plug	Yellow, then grey after the connector Red, then black after the connector
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
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
DC-DC converter Output	**Splice**	Red · +12 V
DC-DC converter Output	**Splice** Connectors: Bullet connectors	Black · Ground

Connector	To	Wire
Side light switch	**Splice**	Red
Splice	**Side light switch** Connectors: Bullet connectors	Red
Connection panel RGB lamp / bus LED controller Power	**Splice** Connectors: JST SM plug	1 · Black · Ground 2 · Red · +12 V
Stem LED strip (left)	**Connection panel RGB lamp / bus LED controller** RGB output 1 Connectors: Board header	Black · Ground Blue · LED data Red · +12 V
Stem LED strip (right)	**Connection panel RGB lamp / bus LED controller** RGB output 2 Connectors: Board header	Black · Ground Blue · LED data Red · +12 V
Ground light 1	**Splice** Connectors: JST SM plug	2 · Red 1 · Black
Ground light 2	**Splice** Connectors: JST SM plug	2 · Red 1 · Black
Driving light 1	**Splice** Connectors: JST SM plug	2 · Red 1 · Black
Driving light 2	**Splice** Connectors: JST SM plug	2 · Red 1 · Black
Tail and brake light 1	**Splice** Connectors: JST SM plug	2 · Red 1 · Black
Tail and brake light 1 Brake light	**Connector**	Yellow
Tail and brake light 2	**Splice** Connectors: JST SM plug	2 · Red 1 · Black
Tail and brake light 2 Brake light	**Connector**	Yellow
Connector	**Dual controller** Brake light	White White