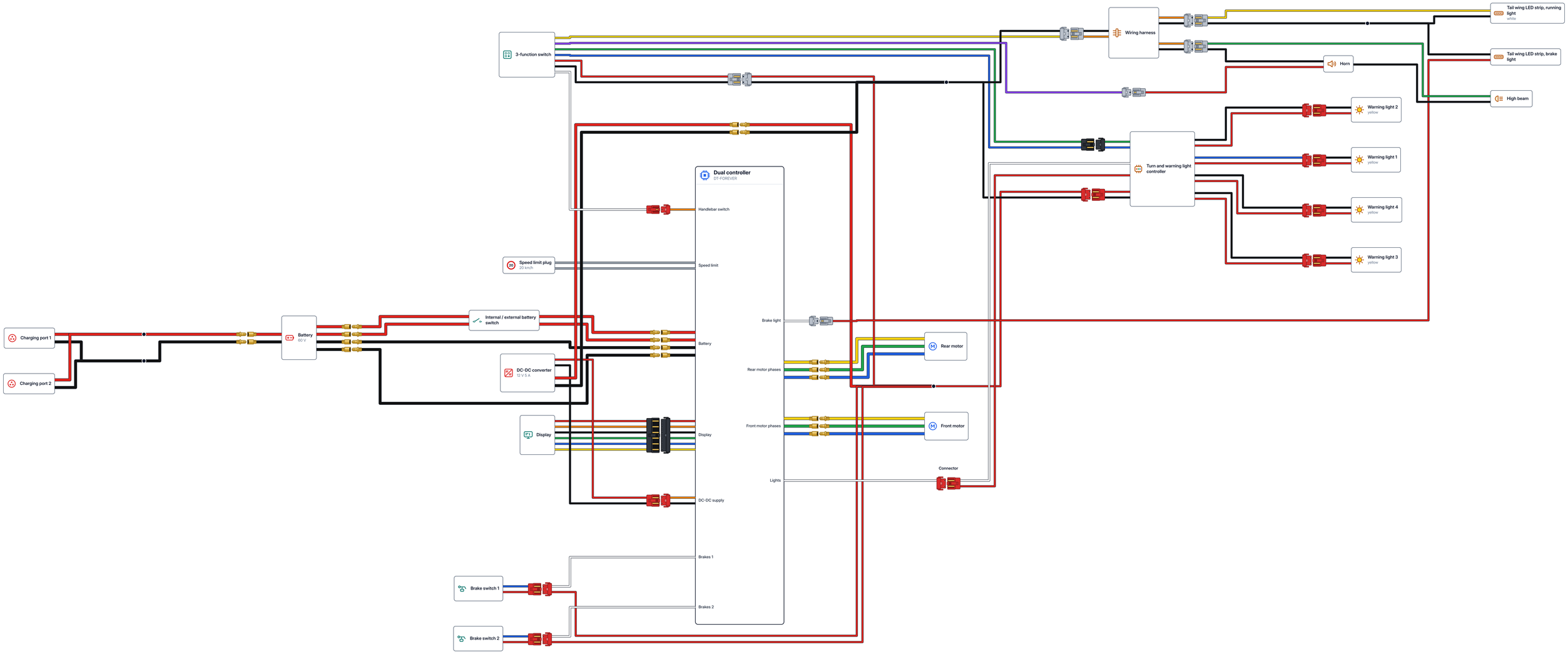
WIRING DIAGRAM

Dualtron Forever V1 | 60 V

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WIRE COLOURS

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

CONNECTORS

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

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

NOTES

1. The internal / external battery switch sits on the two battery + wires. The external battery connection is not shown on the original diagram.
2. The 3-function switch has four buttons: headlight, left turn, right turn and horn. Its brown and orange wires continue as white and violet, with no connector drawn in between. Its white wire is not connected to anything on the original.
3. The turn and warning light controller inputs are only marked R, L, SC and JS on the original. SC takes the white wire from the controller. JS is wired in red to pin 1 of a red plug that has no wire on the other side.
4. The high beam and the horn are drawn in one housing. Their − terminals are joined by a thin wire.
5. On the original diagram, the LEDs of the tail-wing brake strip are marked "white", like those of the running-light strip.
6. Both brake switches carry the same "left / right" label on the original, which does not say which one is on the left.
7. The original diagram shows no throttle.

DOCUMENT

Based on the manufacturer diagram "forever - schema electrique - V1" dated 5 April 2024.

Redrawn by FōhzShop 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	Yellow · Motor phase Green · Motor phase Blue · Motor phase
Dual controller Rear motor phases	**Rear motor** Connectors: Bullet connectors	Yellow · Motor phase Green · Motor phase Blue · Motor phase
Dual controller Lights	**Connector**	→ 2 · White
Battery Output	**Internal / external battery switch** Input Connectors: Bullet connectors	Red · Battery + Red · Battery +
Battery Output	**Dual controller** Battery Connectors: Bullet 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 −
Internal / external battery switch Output	**Dual controller** Battery Connectors: Bullet connectors	Red · Battery + Red · Battery +

Connector	To	Wire
Display	**Dual controller** Display Connectors: JST SM plug	→ 6 · Red → 5 · Orange → 4 · Black → 3 · Green → 2 · Blue → 1 · Yellow
Speed limit plug	**Dual controller** Speed limit	Grey Grey
3-function switch	**Turn and warning light controller** Turn signals Connectors: JST SM plug	→ 3 · Green · R → 1 · Blue · L
3-function switch	**Dual controller** Handlebar switch Connectors: JST SM plug	→ 2 · White, then orange after the connector
3-function switch	**Wiring harness** Input Connectors: JST SM plug	→ 2 · Yellow, then orange after the connector
3-function switch	**Horn** Connectors: JST SM plug	2 · Violet, then red after the connector · Horn
Brake switch 1	**Dual controller** Brakes 1 Connectors: JST SM plug	2 · Blue, then white after the connector
Brake switch 1	**Splice** Connectors: JST SM plug	1 · Red

Connector	To	Wire
Brake switch 2	**Dual controller** Brakes 2 Connectors: JST SM plug	2 · Blue, then white after the connector
Brake switch 2	**Splice** Connectors: JST SM plug	1 · Red
DC-DC converter Input	**Dual controller** DC-DC supply Connectors: JST SM plug	→ 2 · Red, then orange after the connector · IN+ → 1 · Black · IN−
DC-DC converter Output	**Splice** Connectors: Bullet connectors	Red · +12 V Black · Ground
Splice	**3-function switch** Connectors: JST SM plug	2 · Red 1 · Black
Splice	**Turn and warning light controller** Power Connectors: JST SM plug	→ 2 · Red · Supply + → 1 · Black · Supply −
Splice	**Wiring harness** Input Connectors: JST SM plug	→ 1 · Black
Turn and warning light controller RR	**Warning light 1** Connectors: JST SM plug	→ 1 · Blue, then black after the connector · LED − → 2 · Red · LED +
Turn and warning light controller RF	**Warning light 2** Connectors: JST SM plug	→ 1 · Black · LED − → 2 · Red · LED +

Connector	To	Wire
Turn and warning light controller LF	**Warning light 3** Connectors: JST SM plug	→ 1 · Black · LED − → 2 · Red · LED +
Turn and warning light controller LR	**Warning light 4** Connectors: JST SM plug	→ 1 · Black · LED − → 2 · Red · LED +
Connector	**Turn and warning light controller** SC	2 · White
Connector	**Turn and warning light controller** JS	1 · Red
Wiring harness Branch 1	**Tail wing LED strip, running light** Connectors: JST SM plug	2 · Orange, then yellow after the connector · +12 V
Wiring harness Branch 1	**Splice** Connectors: JST SM plug	1 · Black
Wiring harness Branch 2	**High beam** Connectors: JST SM plug	2 · Orange, then green after the connector · LED +
Wiring harness Branch 2	**Horn** Connectors: JST SM plug	1 · Black · Ground
Horn	**High beam**	Black · LED −
Tail wing LED strip, running light	**Splice**	Black · Ground
Tail wing LED strip, brake light	**Splice**	Black · Ground
Tail wing LED strip, brake light	**Dual controller** Brake light Connectors: JST SM plug	Red, then white after the connector · Brake light