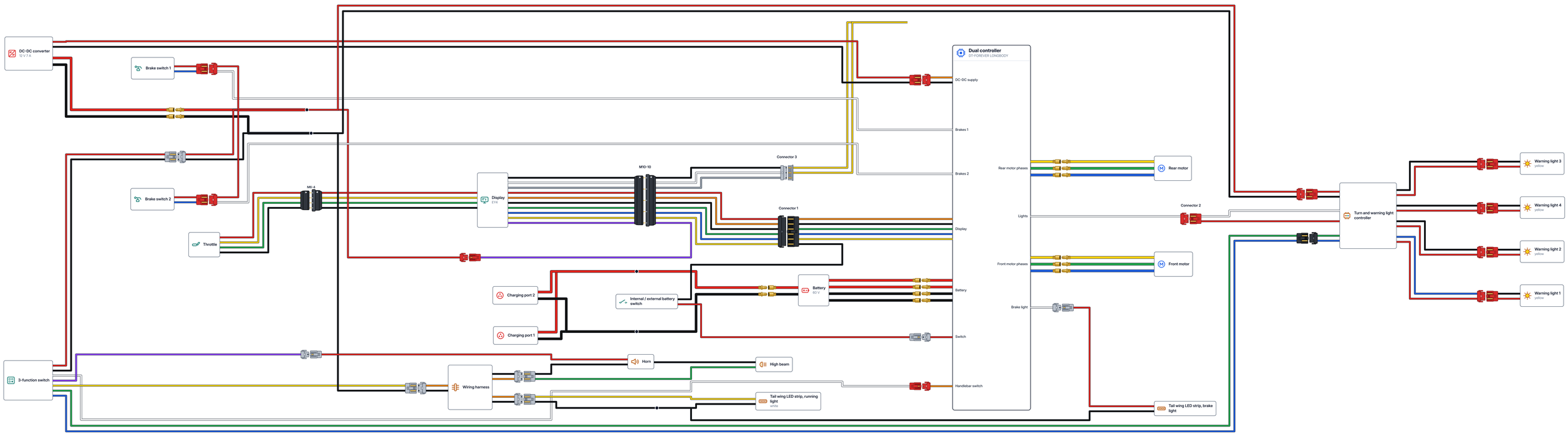
WIRING DIAGRAM

Dualtron Forever V3 | 60 V

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WIRE COLOURS

- Black BK
- Blue BU
- 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
- Round waterproof plug
- Splice: wires are joined at this point
- JST SM plug
- Board header

NOTES

1. The M10-10 round waterproof plug of the display cable is also marked "YL" on the original.
2. On the other side of the grey three-pin plug of the display black, white and grey wires, a yellow wire joins pins 3 and 2. Pin 1 has no wire on that side.
3. On the throttle side, the display violet wire continues as yellow, with no connector drawn in between.
4. The display red wire (pin 6 of its black plug) does not reach the controller: on the other side of the plug, a black wire takes it to the internal / external battery switch, whose red wire reaches the controller through a grey plug. No battery is connected to this switch on the original.
5. The Chinese title of the original diagram names a raised version, the English title a LONGBODY version.
6. 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.
7. 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.
8. The high beam and the horn are drawn in one housing. Their − terminals are joined by a thin wire.
9. On the original diagram, the LEDs of the tail-wing brake strip are marked "white", like those of the running-light strip.
10. Both brake switches carry the same "left / right" label on the original, which does not say which one is on the left.

DOCUMENT

Based on the manufacturer diagram "forever - schema electrique - V3" dated 9 February 2025.

Redrawn by FohzShop 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**	→ 2 · White
Battery Output	**Dual controller** Battery Connectors: Bullet connectors	Red · Battery + Red · Battery + 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	**Dual controller** Switch Connectors: JST SM plug	Red

Connector	To	Wire
Display Controller	**M10-10**	Black White Grey Red Orange Black Green Blue Yellow Violet
Throttle	**Display** Throttle Connectors: Round waterproof plug M6-4	Red Yellow Green Black
M10-10	**Connector 1**	→ 6 · Red → 5 · Orange → 4 · Black → 3 · Green → 2 · Blue → 1 · Yellow
M10-10	**Connector 3**	→ 3 · Black → 2 · White → 1 · Grey
M10-10	**Splice** Connectors: JST SM plug	2 · Violet, then red after the connector
Connector 1	**Dual controller** Display	5 · Orange 4 · Black 3 · Green 2 · Blue 1 · Yellow
Connector 1	**Internal / external battery switch**	6 · Black

Connector	To	Wire
Connector 3	**Splice**	3 · Yellow 2 · Yellow
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
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

Connector	To	Wire
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 +
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 2	**Turn and warning light controller** SC	→ 2 · White
Connector 2	**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