

SURRON ULTRA BEE

TC1000

2.X CONTROLLER

Everything you need to fit the controller correctly and set it up for the first ride.

COMPATIBLE PLATFORM

SURRON ULTRA BEE

READ BEFORE YOU START

1 USE THE SUPPLIED HARDWARE ONLY

Fit every terminal using the phase bolts with washers and hex key that came in the box. Damage caused by impact drivers or electric screwdrivers is not covered by warranty.

2 THE CIRCUIT BREAKER IS MANDATORY

Torp controllers must always run with a properly rated fuse or a circuit breaker. See section 02.

3 WARRANTY

Incorrect installation, miswiring, unauthorized modifications, or using an improperly rated fuse/circuit breaker may damage the controller and void the warranty.

IN THE BOX

TC1000 controller× 1
Wiring harness× 1
Protective heatsink× 1
Screws and tools needed for installation
Hex key× 2
Dielectric grease× 1

WATCH THE INSTALL VIDEO



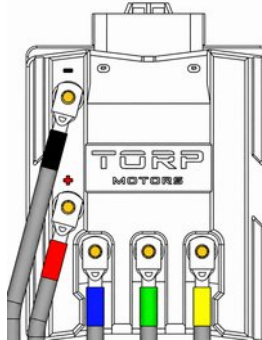
SurRon Ultra Bee

01 INSTALLATION



First switch the circuit breaker OFF, turn the bike on, and wait for the capacitors to drain. Then remove the stock SurRon controller and battery, and lower the skid plate to access the wiring.

Every terminal is coloured and lettered. Not connecting phase wires correctly can cause the bike to go in reverse.



TERMINAL MAP

B	Motor phase	 Blue
G	Motor phase	 Green
Y	Motor phase	 Yellow
+	Battery positive	 Red
-	Battery negative	 Black

TORQUE FOR EVERY TERMINAL

4.0–4.5 N·m

Tighten/untighten terminals only with the **HEX KEY** supplied in the package.



Never use an impact driver.

01 GREASE THE MAIN CONNECTOR

Spread the supplied dielectric grease evenly across the controller's main connector. It keeps water and dirt out of the contacts.



02 CONNECT THE WIRING

Connect the TORP wiring harness to the TORP controller, then connect the 3 smaller connectors to the bike's wiring as they were connected to the stock controller. Press each connector in until you *hear* a click.



The **main connector** is the one most often left half-seated, and it is the most common cause of water ingress.

03 INSTALL THE TC1000

The TC1000 for SurRon Ultra Bee comes with an aluminum heat sink.



TC1000 CONTROLLER



ALUMINUM HEAT SINK

04 PLACE THE CONTROLLER IN THE HEAT SINK

Rotate the controller so its front side faces down, and then position the heat sink by aligning the 6 holes on its back to the 6 holes on the heatsink.

05 SECURE THE CONTROLLER

Use the 6 bolts and the smaller hex-key (included in the package) to secure the controller to the heatsink.

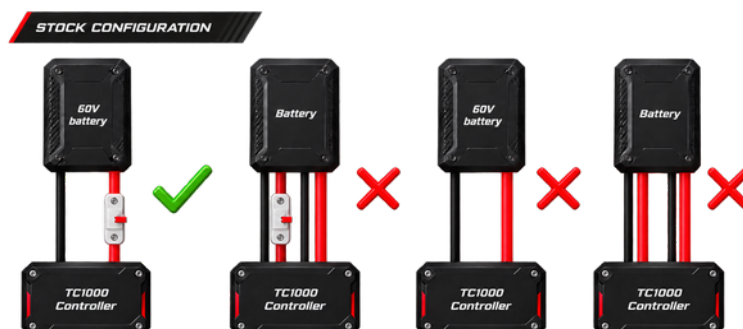


06 RECONNECT THE BATTERY

Always operate the controller with the stock fuse installed.

02 ALWAYS USE THE CIRCUIT BREAKER

Torp controllers must always be operated with the **properly rated fuse/circuit breaker** fitted between the battery and the controller. Running without it is dangerous and can cause damage. Once you complete installation, turn the breaker back ON.



Full guidance: torpmotors.com/circuit-breaker

03 SETUP WITH THE TORP APP

Pair the controller with the TORP app to select your motor, complete calibration, and set your power maps.



01 DOWNLOAD THE FREE TORP APP

Google Play (Android) or the App Store (iOS).

02 GRANT PERMISSIONS

Allow location, photos and media, then accept the terms and conditions.

03 SWITCH THE BIKE ON

The controller must be powered before the app can find it.

04 SELECT YOUR CONTROLLER

The app detects nearby controllers automatically. Pick yours from the list. The Bluetooth ID is printed on the label on the side of the controller and the controller box. Save this information in a secure place.

05 SET IT UP

Run calibration and select your battery, then set up your configuration.

TALK TO THE ENGINEERS, NOT JUST SUPPORT

Every TORP product is backed by direct, engineer-level assistance, from first setup to fine-tuning. Use the support form on our website and we will come back to you.

WARRANTY 2 years **SUPPORT** torpmotors.com/contact

HELP CENTER torpmotors.com/help-center



SUPPORT

Modifying a stock electric vehicle can make it non-compliant with local road-safety regulations. Consult the relevant authority before riding a modified vehicle on public roads. The TC1000 is not an original SurRon part and is used at your own risk. TORP is not affiliated with, and claims no rights to, those brands.