

BUILDHARD

BUILD TO DRIVE 60 AMPS BRUSHED ESC

OPERATING INSTRUCTIONS & SETUP MANUAL

NOTE / OPERATING INSTRUCTIONS

Please read these operating instructions carefully before setup and use. Correct calibration and wiring are essential for reliable operation.

TWO WORKING MODES — SELECTABLE VIA SWITCH

BRAKE MODE	When the throttle stick returns to the neutral position, the ESC applies braking to stop the motor. If the motor is rotating forward and the throttle stick is moved to reverse, the motor changes direction immediately.
NO BRAKE MODE	When the throttle stick returns to the neutral position, the motor may continue moving due to inertia. If the motor is rotating forward and the throttle stick is moved to reverse, the motor changes direction immediately.

THROTTLE RANGE CALIBRATION

1. Move the throttle stick to the **full throttle position**.
2. Connect the battery pack to the ESC.
3. After approximately 2 seconds, the indicator LED will **flash twice**, confirming the full throttle position.
4. Immediately return the throttle stick to the **neutral position**.
5. The indicator LED will **flash three times**, confirming the neutral position and completing the calibration process.

LED INDICATOR STATUS

CONDITION	LED INDICATION
Power On	LED flashes once.
Neutral / Center Detected	LED flashes again.
Control Signal Lost	LED flashes rapidly to indicate signal-loss status.

BUILDHARD

BUILD TO DRIVE 60 AMPS BRUSHED ESC

SETUP & OPERATION

ACCURATE THROTTLE TRAVEL SETUP

1. Set the transmitter throttle travel/endpoints to the **maximum range**.
2. Power on the ESC and connect the signal cable to the appropriate receiver channel.
3. Wait a few seconds until the indicator LED **flashes twice**.
4. Return the throttle control to the **center/neutral position**.
5. The indicator LED will **flash three times** to confirm the setting.

HOW TO USE

1. Correctly connect the ESC to the receiver, brushed motor, and battery.
2. Power on the ESC. The LED indicator will flash once.
3. Keep the throttle stick at the neutral position and turn on the transmitter. Adjust the throttle trim or neutral position until the LED flashes again, confirming neutral detection.
4. Once the neutral position is confirmed, the ESC is ready for operation.

IMPORTANT SAFETY NOTE

Always verify battery voltage, motor current requirements, wiring polarity, and receiver connections before powering the ESC.

Keep the vehicle or robot drive wheels clear of the ground during initial setup and throttle calibration.