

N20 "red" ESC

An integrated speed controller for N20 motors

- * Works with most N20 or N10 gear motors
- * Runs like a continuous servo - accepts servo pulses
- * Centre braking stops the motor when control stick is centred

Specifications

Input voltage: 3.6v - 9v

Maximum current: 1.8A

Signal input: Servo pulses 1000us - 2000us

Centre braking enabled approximately 1450-1550us

Connector: "Dupont" 2.54mm 3-position female (servo connector)

PCB dimensions: 11x20mm; Lead length: 80mm

Notes

- * Centre position must be selected after power on (1500 us / centre stick) for auto centre calibration.
- * Failsafe (disable motor) if signal is lost
- * Indicator LED - blinking= power but no signal, constant= power and signal

Assembly

The controller board should be soldered to the terminals on the back of a motor as shown below. It is useful to orient the motors consistently in a batch, e.g. when making kits. If the motor is reversed, it will still work, just run the opposite way.

- ⊕ sign closest to the case notch
- Indicator LED opposite case notch
- ⊕ sign aligned with a ⊕ sign on the back of the motor

