

2023 SAE LIMITER OPERATING INSTRUCTIONS

Dec. 5, 2022



Specifications:

Micro Class:	450 Watts
Regular and Advanced:	750 Watts
Max voltage:	6S 22.2V
Maximum continuous current:	60 Amps
Connectors:	XT 60 male / female for motor power RC 3 pin male and female for throttle signal

Purpose:

The limiter is installed between the RC receiver and the electronic speed control. Power for the motor passes through the limiter for measurement purposes. If the motor draws more than the class maximum wattage, the limiter adjusts the throttle command to the electronic speed control (ESC) to reduce motor power to the class's maximum wattage. The limiter is powered by voltage supplied by the RC system.

LED Codes:

LED off, motor is stopped: An error condition exist that must be resolved before operation.

LED blinking 9 times on power up: Unit is booting up and calibrating

LED on steady: The limiter is ready and the RC receiver has direct control over the ESC

LED off, motor is turning: The limiter is throttling back the ESC to limit the power to the class maximum.

LED Flickering while motor turning: power system is providing close to the classes limit then the LED may flicker rapidly, indicating it is alternating between codes 3 and 4 above.

Installation:

User must install the proper gender XT60 connector on the battery and ESC. Pay attention to the connector gender and polarity. These are not interchangeable. The plastic connector housing is marked with positive and negative.





Radio Connections:

1. Connect SIGNAL IN to your RC receiver throttle channel.
2. Connect SIGNAL OUT to your motor speed control throttle wires.