



# EFLA105 20-Amp Mini ESC with Brake

## Instruction Manual

Thank you for choosing the E-flite™ brand. Your satisfaction is our number one priority. With this in mind, we have produced this product to be of the highest quality, performance, and reliability at a “value-packed” price. We hope it provides you with hours of enjoyment.

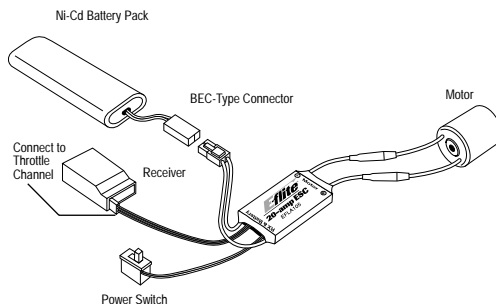
## Features

- Thermal overload/current protection (prevent ESC burnout if overloaded or shorted)
- Auto-cutoff shuts off power to the motor while still supplying power to operate the radio
- 20-amp continuous current
- Input Voltage Range: 5-cell, 6-volt to 10-cell, 12-volt
- BEC Voltage: 3.6 volts DC, 1 amp
- Prewired with Tamiya battery connector and bullet-style motor connector
- Universal receiver plug
- On/Off switch

## Specifications

<b>Operation:</b>	Proportional forward power, with brake, auto-cutoff
<b>Input Voltage:</b>	5-cell (6 volts) through 10-cell (12 volts)
<b>Continuous Current:</b>	20 amps
<b>Size:</b>	(1.14" x .68" x .26") 29mm x 17mm x 6.6mm
<b>Weight:</b>	.63 ounces (17.8g)

## Diagram



## Hooking Up the Receiver

A universal receiver connector is prewired to the controller (see diagram). Insert the receiver connector into the throttle channel of the receiver. This connector is compatible with JR, Futaba and Hi-Tec receivers. Other types of receivers may not be compatible. Be sure to route the receiver connector wire neatly.

## Hooking Up the Motor

The E-flite Speed Controller will handle continuous current up to 20 amps. This typically includes up to Speed 400 motors. Female bullet-style connectors are provided for convenient hookup with motors that are prewired. The red wire is positive (+) and the black wire is negative (-).

## Hooking Up the Speed Control

The E-flite 20-amp Speed Control comes prewired with a Tamiya style battery connector that is compatible with connectors found on most battery packs. You can use a 5-cell to 10-cell battery pack (6- to 12-volt).

## Mounting the Controller

Using double-sided servo tape, mount the E-flite 20-Amp Speed Controller in the position shown in the instruction manual for your particular model. Be sure to mount the control so that the motor, battery, and receiver wires reach. Mount the switch using a screw and switchplate kit or use double-sided servo tape on the side of the switch to mount it to the fuselage of your model.

## Preflight Instructions

1. Be sure the On/Off switch is in the off position and the motor is not yet connected.
2. Plug the speed control throttle lead into the throttle servo receptacle on the receiver.
3. You must first properly set up the transmitter. Turn on the transmitter and place the throttle control stick in the center position. If you have a computer transmitter, adjust the throttle ATV to 100%.
4. Connect a fully charged battery to the battery connector on the speed control. Note the positive and negative leads. Ensure proper polarity when making the connection, because incorrect polarity will damage the speed control.
5. If you used a PCM transmitter, set the fail-safe memory on low speed.
6. Turn off all switches before connecting the motor. After connecting the motor, turn the switches on. The throttle will start from low speed.
7. Test the motor.

**Note:** If your electronic speed control fails to operate after following the above steps, unplug the receiver connector and rotate 180°.

## Warranty Repairs

To receive warranty service, your original dated sales receipt must be included to verify your proof-of-purchase date. Providing warranty conditions have been met, your electronic speed control will be repaired or replaced free of charge.

## Non-Warranty Repairs

Should your repair cost exceed 50% of the retail purchase price, you will be provided with an estimate, advising you of your options. Any return freight for non-warranty repairs will be billed to the customer.

For non-warranty repairs, please advise the payment option you prefer to use. Specify VISA, Mastercard or money order. If you choose to use a credit card please include your card number and expiration date.

## Warranty Information

### E-flite 20-Amp 120-Day Limited Warranty

E-flite warranties this product to be free from defects in materials and workmanship for a period of 120 days from the original date of purchase. It is limited to the original purchaser of this electronic speed control and is not transferable. This warranty will not cover units that have been modified, misused, or serviced by an unauthorized service center.

### Your warranty may be voided if damage results from:

1. Reverse voltage is applied to your E-flite 20-Amp Speed Control (e.g., connecting battery pack backward, plugging battery into the motor connector wires, etc)
2. The battery plugs or connectors are altered or removed
3. You allow your wires to become frayed or shorted
4. Use of less than 5-cell (6 volts) or more than a 10-cell (12 volts) battery pack
5. Tampering with any of the electronic components
6. Allowing water, moisture, or foreign material (e.g. dirt, dust, etc.) into the electronic speed control unit

Under no circumstances will the buyer be entitled to consequential or incidental damages. This limited warranty gives you specific legal rights; you also have other rights that may vary from state to state. If your electronic speed control is in need of repair, please ship it freight prepaid to:

**Horizon Service Center**  
**ATTN: E-flite Service**  
**4105 Fieldstone Road**  
**Champaign, Illinois 61822**  
**(217) 355-9511**

Include your complete name and address information inside the carton, as well as write it clearly on the return address label area. Include a brief summary of the difficulty. Date your correspondence and be sure your name and address appear on this enclosure. Also, include a phone number where you can be reached during the business day.