Thomson Automation

ESC* Switch

70 AMP Capacity
Low-power switching control
Includes pull-pin switch and flag

User's Guide

Introduction

The Thomson Automation ESC Switch is specially designed to switch power on and off in electric flight systems. Power is turned on by extracting a pin from a special switch. Accidentally turning off the power is not possible once the pin is pulled out. To turn the power off, the pin must be inserted back into the switch. A "REMOVE BEFORE FLIGHT" flag is included and is attached to the pin. Deans connectors are provided for battery and ESC connections. Two or more Modules can be connected together using servo patch cables for switching multiple batteries from one pull-pin switch.

Dean's connectors (one male and one female) are required for power connections and are not included.

Included:

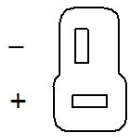
1. ESC Switch module
2. Extractor-pin Switch suitable for through-hole mounting on a fuselage or other surface
3. Extractor pin with "REMOVE BEFORE FLIGHT" flag

Not included:

Dean's connectors (one male and one female) are required for power connections and are not included.

Specifications

Name	ESC Switch
Part nr.	2009
Weight with switch	21 gm
Size	Width: 38 mm, Length 42 mm, Height 20 mm
Peak current capability	150 A
Continuous current capability	70 A
Peak current duration	3 sec
Peak current duty cycle	Dependent on cooling
Maximum operating voltage	25 Volts (6S LiPo, 17S NiMh)
Minimum operating voltage	11.1 Volts (3S LiPo, 11S NiMh)
Switch mounting hole size	5 mm
Maximum mounting panel thickness	2 mm
Mating power connector type	Deans (Not included)



Deans Connector Layout **Do not reverse the power input**
Pigtails or bullet connectors **Red is +, Black is -**

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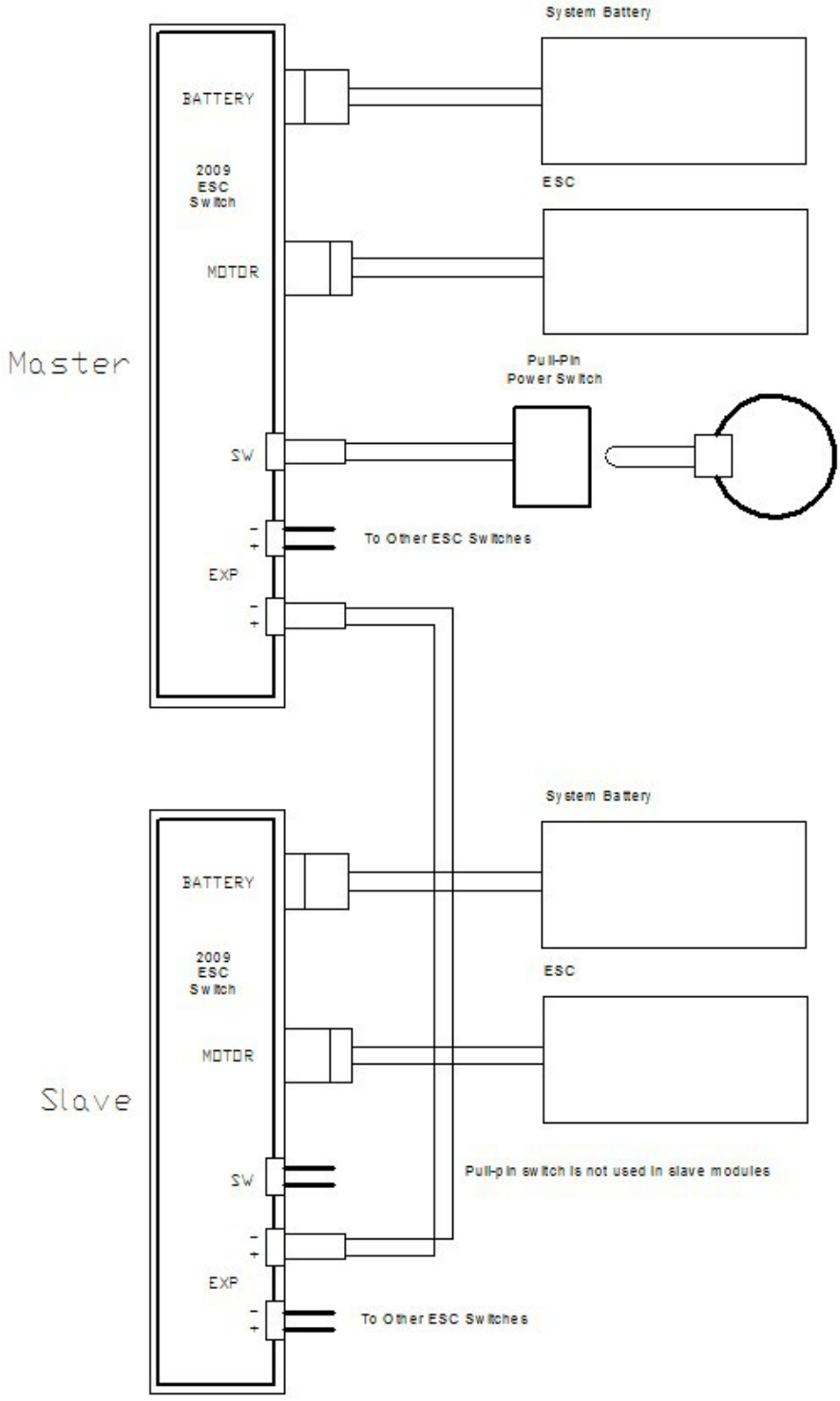
Connection Diagram



In the master-slave configuration, the switch can be connected to any module in the system. The expansion patch cables can be plugged into either of the two EXP connectors.

* ESC refers to “Electronic Speed Control” modules used to control the speed of DC brushed and brush-less motors.

Pay attention to the + - markings on the EXP connectors when connecting more than one module together. Hooking these up backwards will cause damage to the module. Make sure that there are no other electrical connections between ECSs or motors except for the EXP cables

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