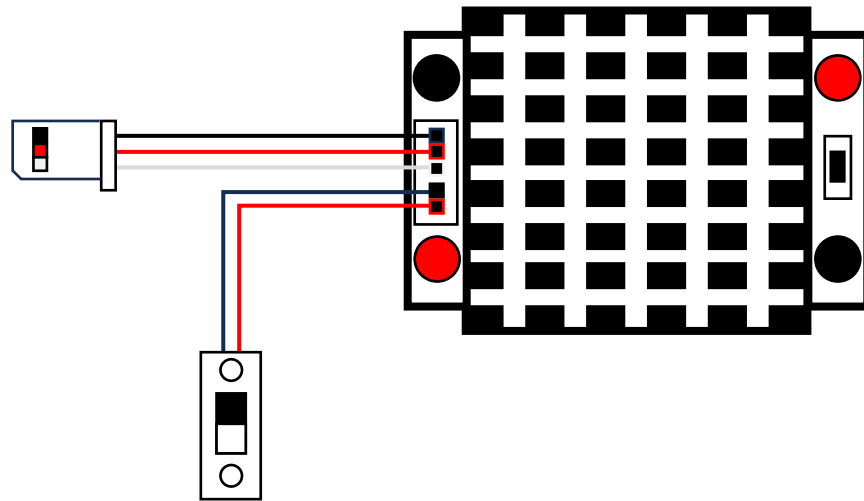


MINIPRO[®] BRUSHED ESC

INSTALLATION GUIDE

REVISION 1.1



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SAFETY PRECAUTIONS

1. Make sure that dynamometers and motors under test are equipped with appropriate safety guards.
2. Make sure that all electronic products are earth grounded.
3. Do not exceed dynamometer and sensor specifications.



BRUSHED ESC DIAGRAM

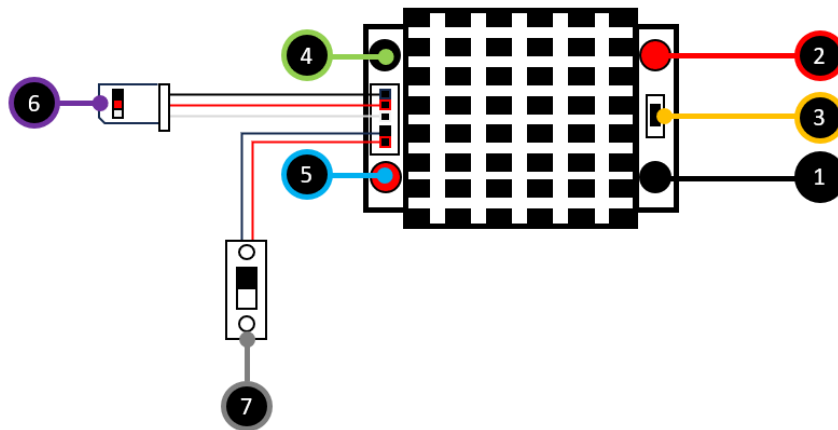


Figure 1: Brushed ESC Diagram

ITEM	FUNCTION
1	(-) Negative Power to Motor
2	(+) Positive Power to Motor
3	Programing Switch
4	(-) Negative Power to Battery or Power Supply
5	(+) Positive Power to Battery or Power Supply
6	ESC Signal for Throttle Controller Sensor or Receiver Wire Identification: Black Wire: (-) Ground Red Wire: (+) Power White Wire: Signal
7	ON/OFF Power Switch

Specification:

- Input Voltage: 6 - 7.2v (NiMh) / 7.4v (LiPo).
- Output Current: 45A continuous, 340A burst (10 sec).
- BEC Current: 5.6v / 2A.



Warranty voided by exceeding power supply specifications.

BRUSHED ESC CONNECTION DIAGRAM - INTERNAL

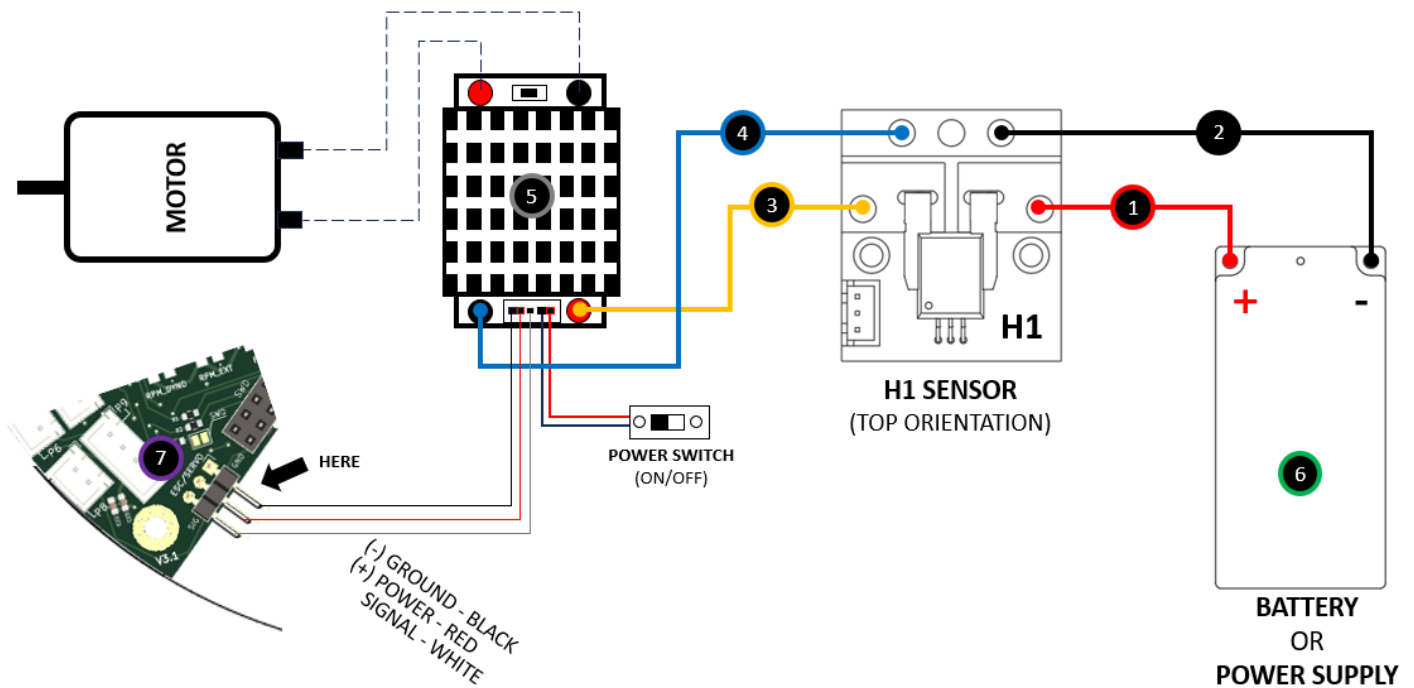


Figure 2: ESC Connection with H1 Sensor and Internal (built-in) Throttle Controller Sensor

ITEM	FUNCTION
1	Connection between (+) Battery or Power Supply and (+) IN of the sensor
2	Connection between (-) Battery or Power Supply and (-) IN of the sensor
3	Connection between (+) OUT and (+) Power for Motor Controller (ESC). IMPORTANT: Check ESC manufacturer's manual for power connection information.
4	Connection between (-) OUT and (-) Power for Motor Controller (ESC). IMPORTANT: Check ESC manufacturer's manual for power connection information.
5	Brushed Motor Controller (ESC) connection to Motor
6	Battery or ESC Connection. IMPORTANT: Do not exceed the sensor's voltage specifications.
7	Brushed ESC Signal Connection to Internal Throttle Controller Sensor port IMPORTANT: Connect the Throttle cable to SERVO/ESC port. No programming necessary.



Soldering Tutorial Video available in our YouTube channel:

<https://www.youtube.com/@miniprousa/videos>



Warranty voided if it's not installed according to Figure 2.

BRUSHED ESC CONNECTION DIAGRAM - EXTERNAL

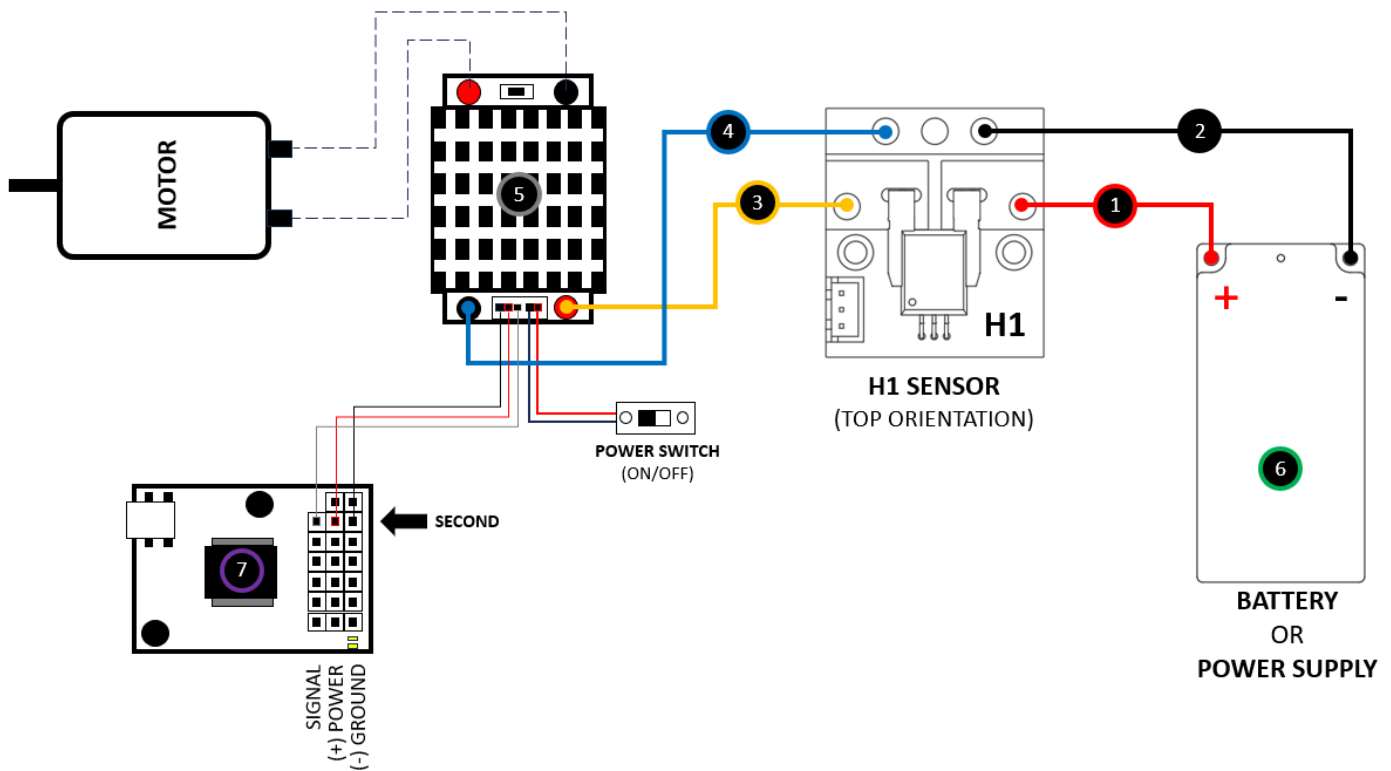


Figure 3: ESC Connection with H1 Sensor and External Throttle Controller Sensor

ITEM	FUNCTION
1	Connection between (+) Battery or Power Supply and (+) IN of the sensor
2	Connection between (-) Battery or Power Supply and (-) IN of the sensor
3	Connection between (+) OUT and (+) Power for Motor Controller (ESC). IMPORTANT: Check ESC manufacturer's manual for power connection information.
4	Connection between (-) OUT and (-) Power for Motor Controller (ESC). IMPORTANT: Check ESC manufacturer's manual for power connection information.
5	Brushed Motor Controller (ESC) connection to Motor
6	Battery or ESC Connection. IMPORTANT: Do not exceed the sensor's voltage specifications.
7	Brushed ESC Signal Connection to Throttle Controller Sensor IMPORTANT: Connect the Throttle cable to slot #2. No programming necessary.



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Warranty voided if it's not installed according to Figure 3.