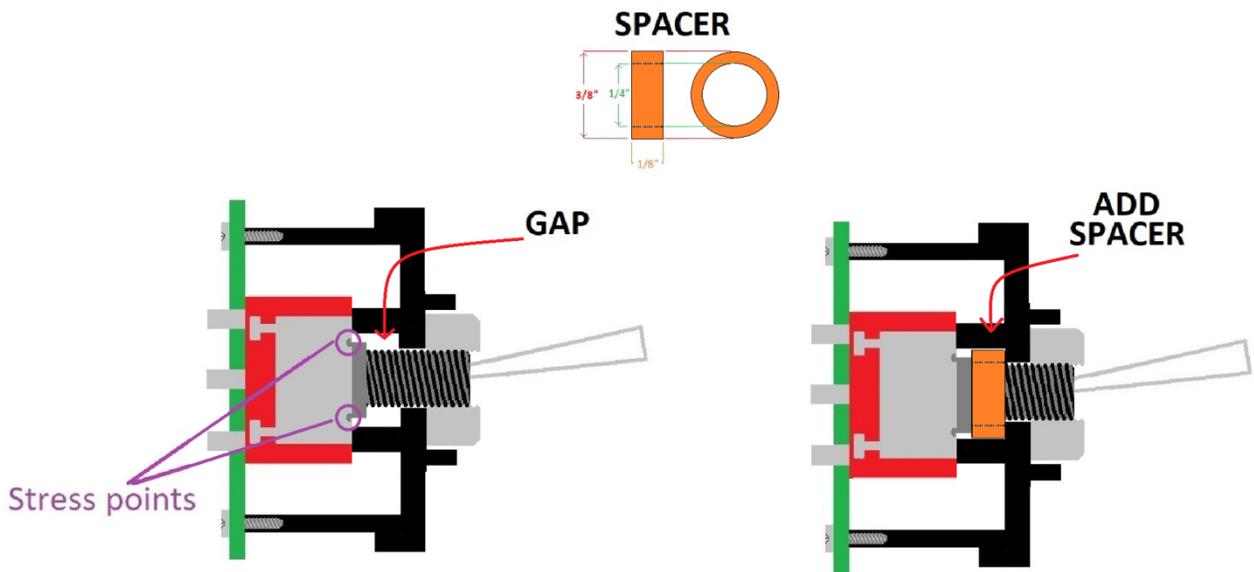


Attachment 36

ST16 Switch Spacer

It is fairly common for the top part of any ST16 toggle switch assembly to pull out of the switch case. The retaining nut, when combined with the support tube around the switch shaft (internal to the ST16) and the supports for the button board itself, create a stress on the bradded joint. Damage can occur during tightening of the retainer nut, or may occur later if the stressed joint is bumped. Switch damage can be avoided by adding a spacer to relieve the stress on the bradded joint. The drawings below are not to scale, but illustrate the vulnerability and the remedy.

ST16 Switch Spacer



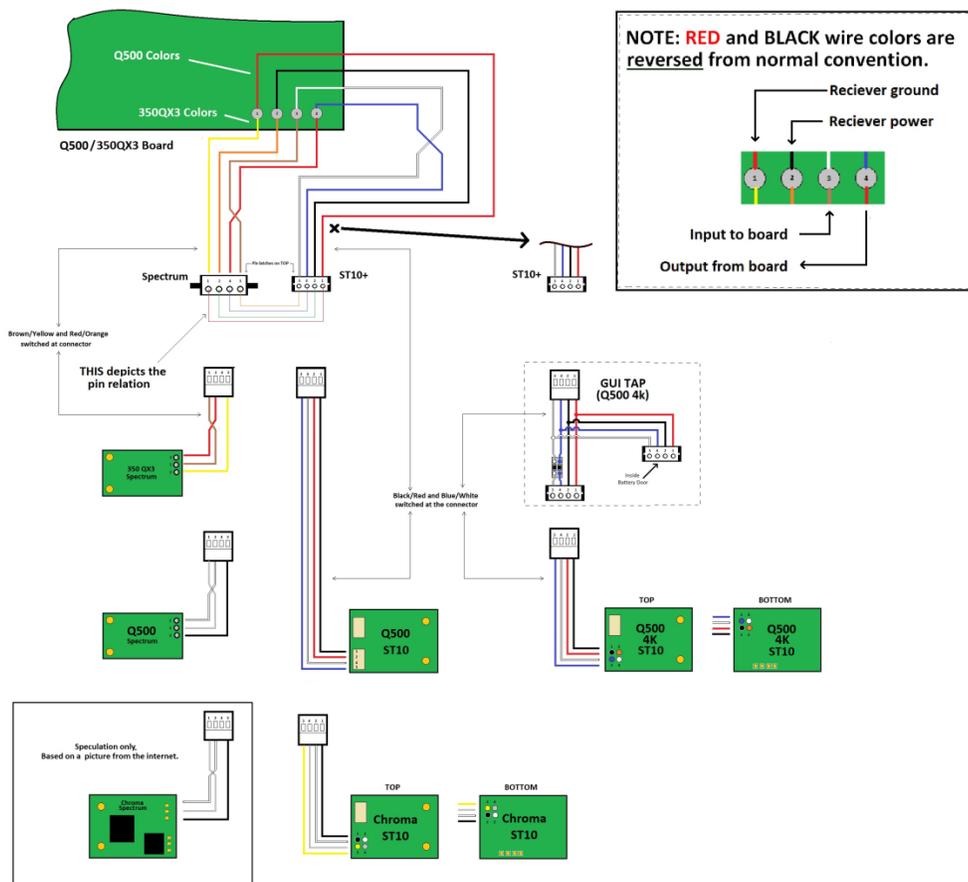
Revision 2 2019-05-31

Attachment 37

350QX / Q500 Receiver Connections

Use of this information is at your own risk.

350QX / Q500 RECEIVER CONNECTIONS



NOTE:

This drawing covers several receiver/drone combinations. The board terminals have NUMBERS and each connection has the corresponding number for each wire. Use the numbers. Don't try to follow the colors. The wire ORDER gets swapped between the board and the first connector. The wire COLORS get swapped at the connector. i.e.: Blue IN does NOT equal Blue OUT, etc. You cannot match wire colors on the receiver side of the connector with wire colors on the board side of the connector.

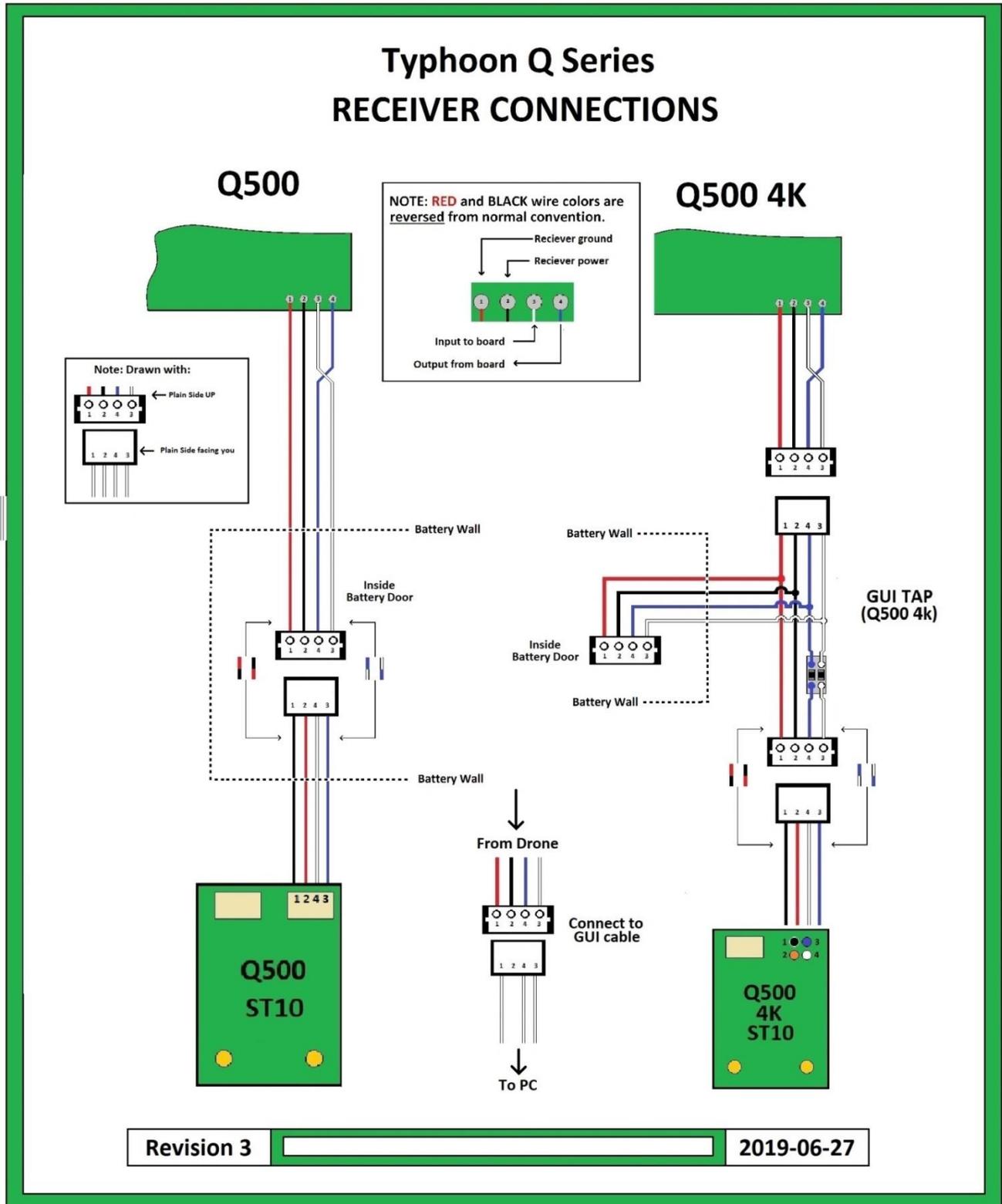
NOTE:

The connectors are drawn with the OPEN end facing you, and the pin latches ON TOP.

Attachment 38

Typhoon Q Series Receiver Connections

Use of this information is at your own risk.



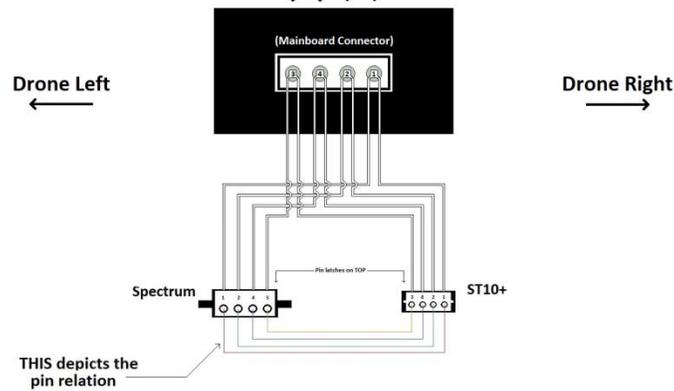
Attachment 39

Chroma Receiver Connections

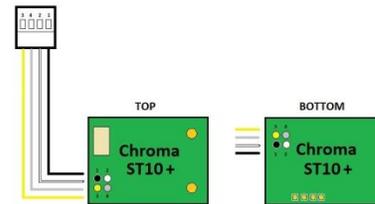
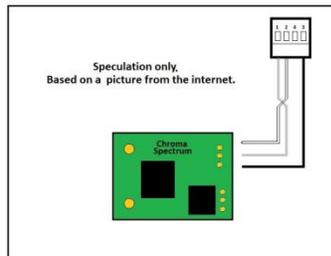
Use of this information is at your own risk.

CHROMA RECEIVER CONNECTIONS

Data Out (Telemetry) ④ ② Receiver Power (+)
Data IN (Control) ③ ① Receiver Ground (-)



THIS depicts the pin relation



NOTE:

Each connection point on this drawing has the number corresponding to the associated function. Use of the numbers is the most reliable method of ensuring the desired connection.

NOTE:

The numbering scheme is not unique to this drawing. The numbers are consistent by function with similar drawings related to previous models.

NOTE:

The connectors are drawn with the OPEN end facing you, and the pin latches ON TOP.

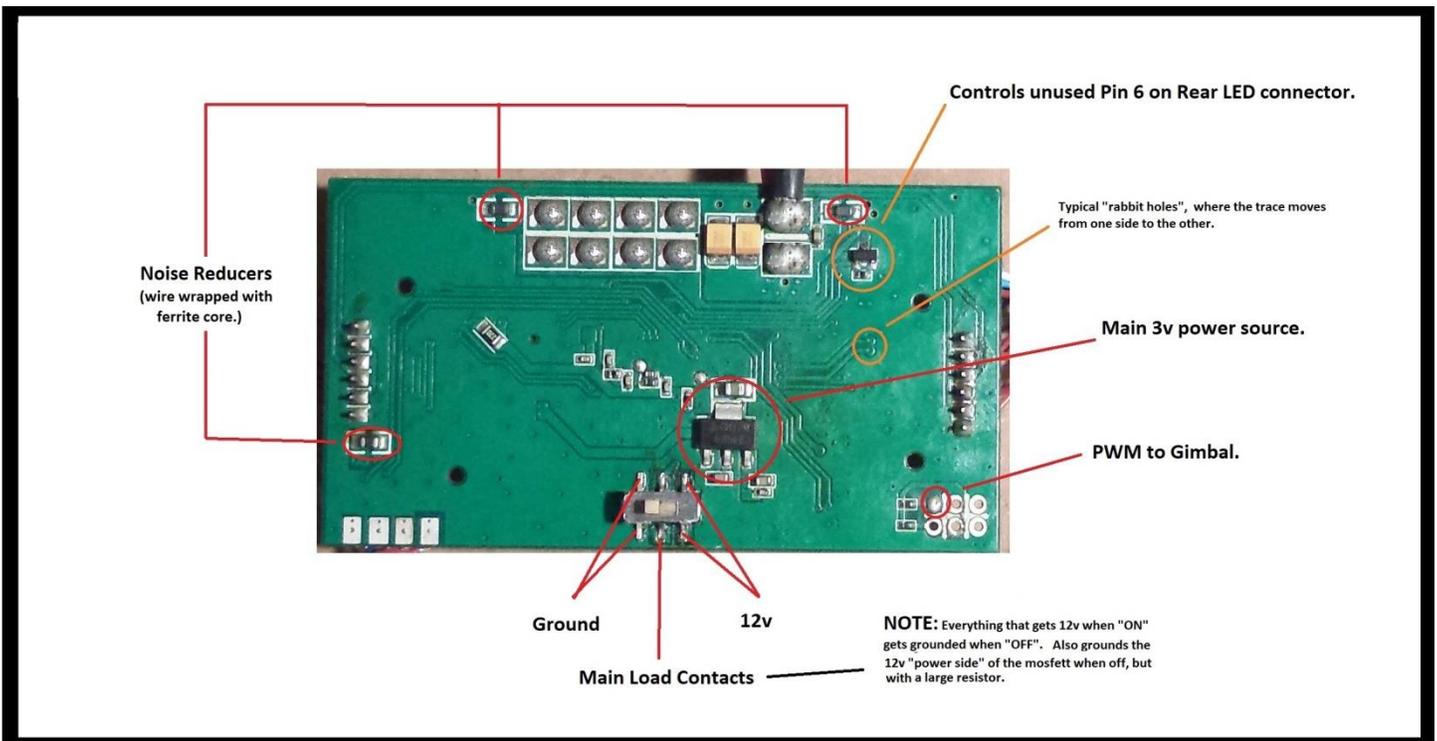
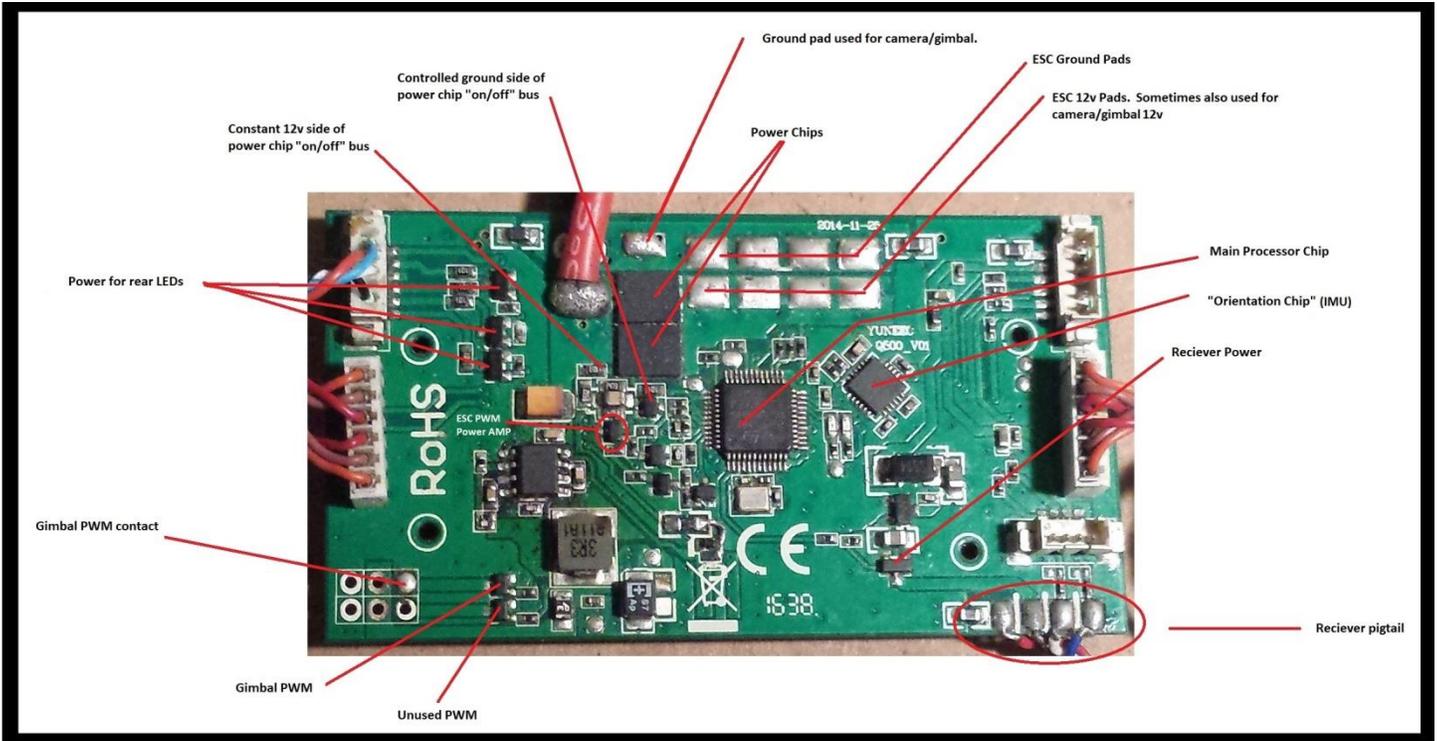
Revision 3

2019-01-03

Attachment 40

Q500 General Mainboard

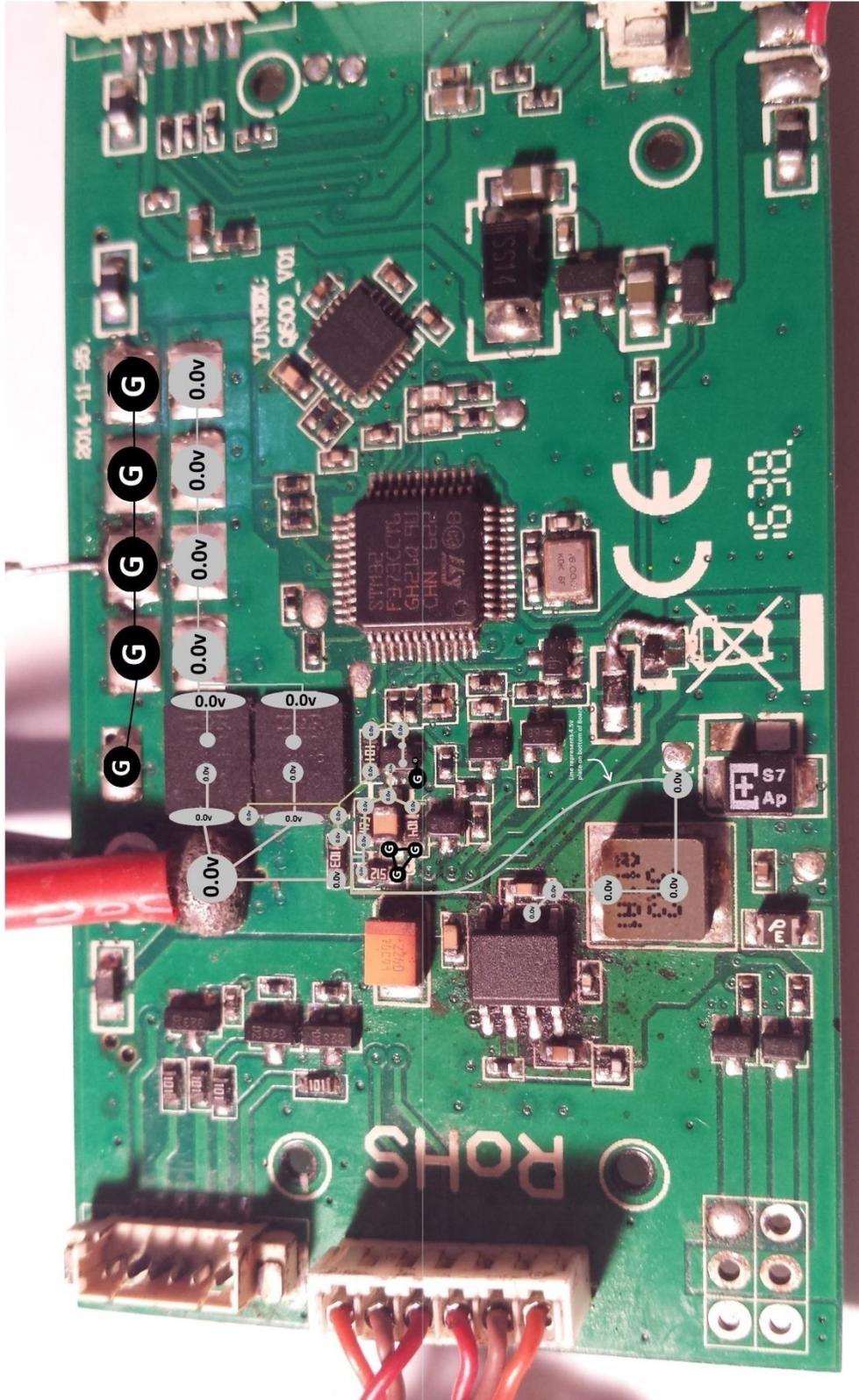
Use of this information is at your own risk.



Attachment 41 Q500 "Power ON" Study

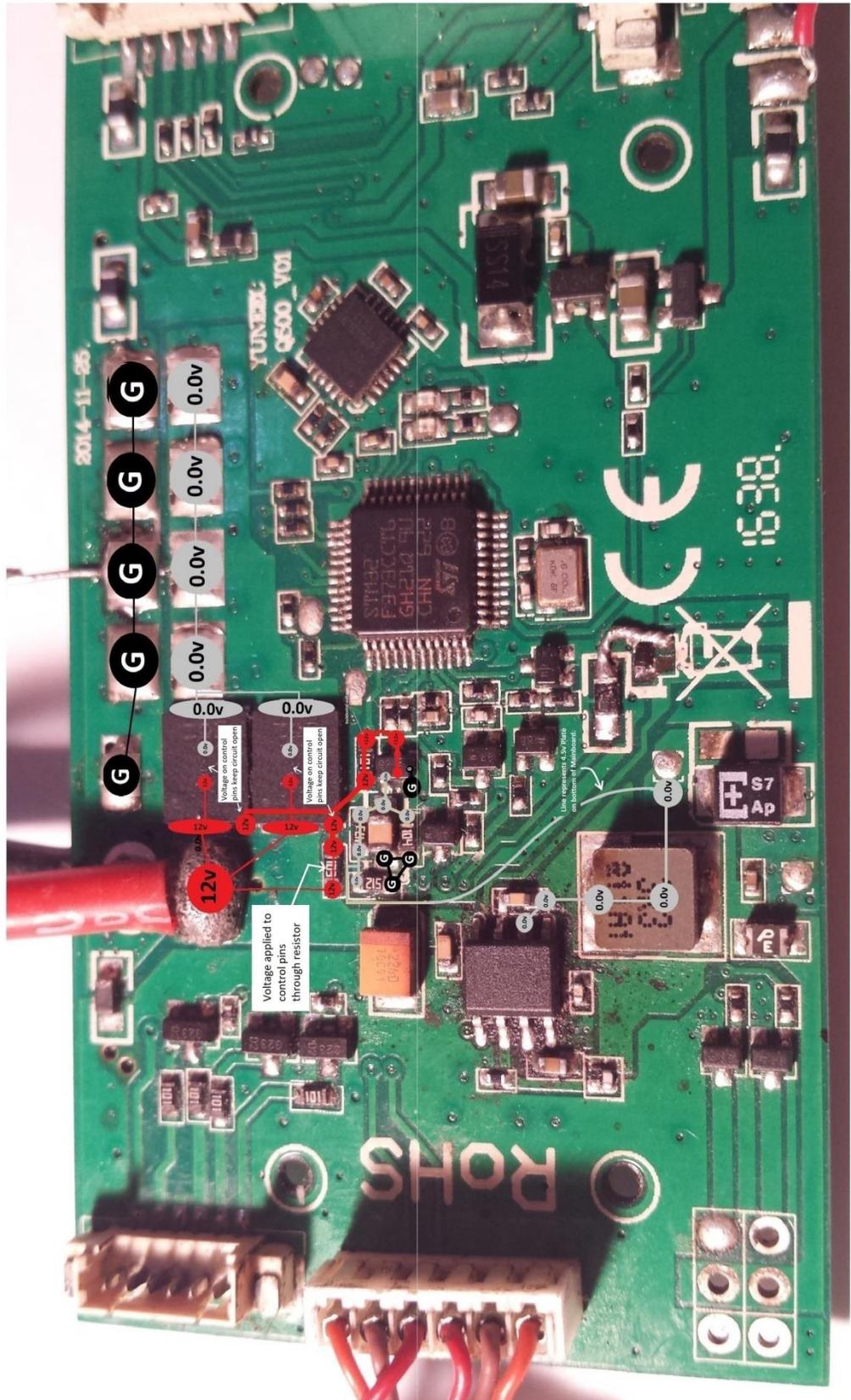
Use of this information is at your own risk.

Motor Power Circuit (Battery Disconnected)



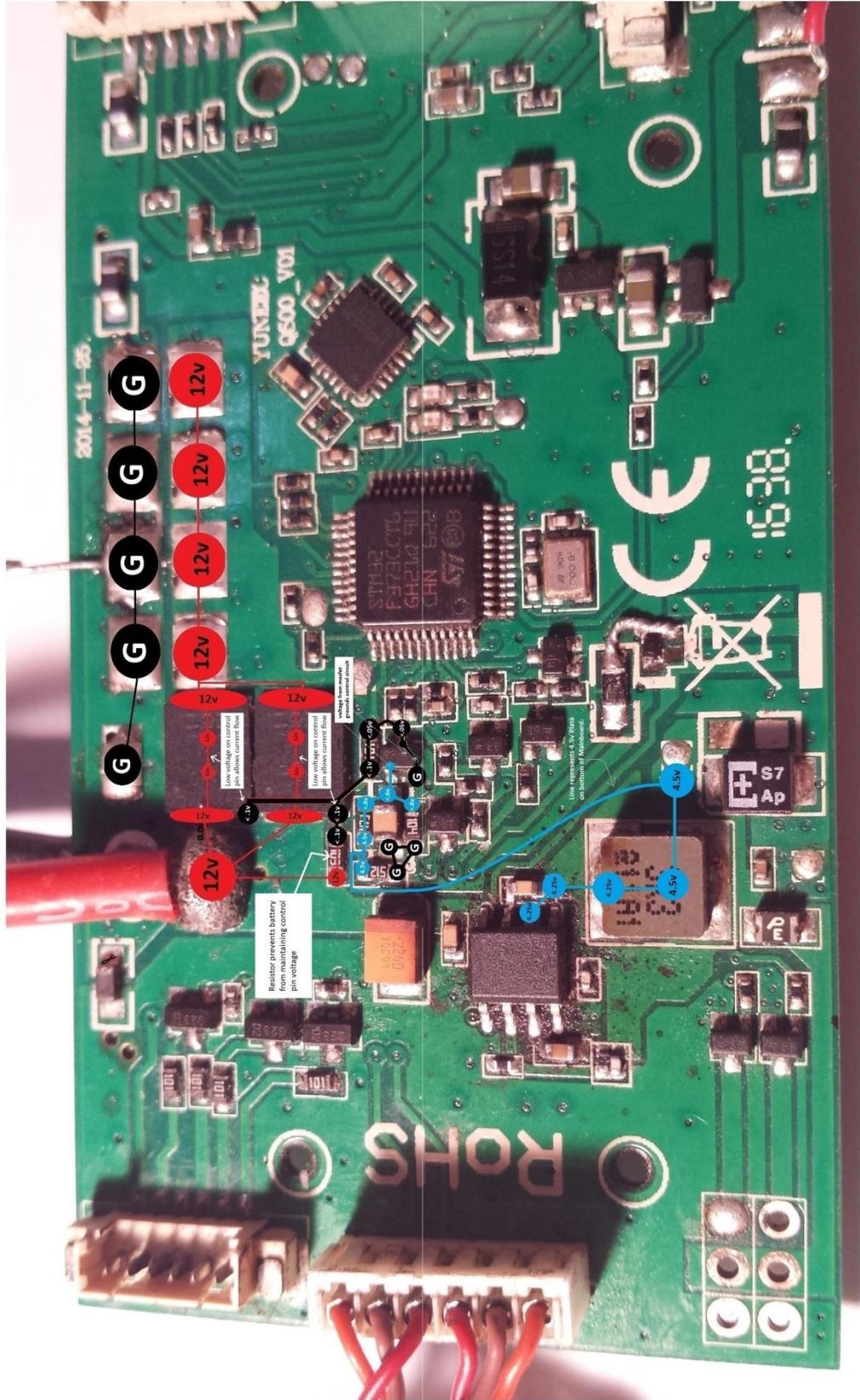
Attachment 41 Q500 "Power ON" Study

Motor Power Circuit (Battery Connected)



Attachment 41 Q500 "Power ON" Study

Motor Power Circuit (Switch "ON")



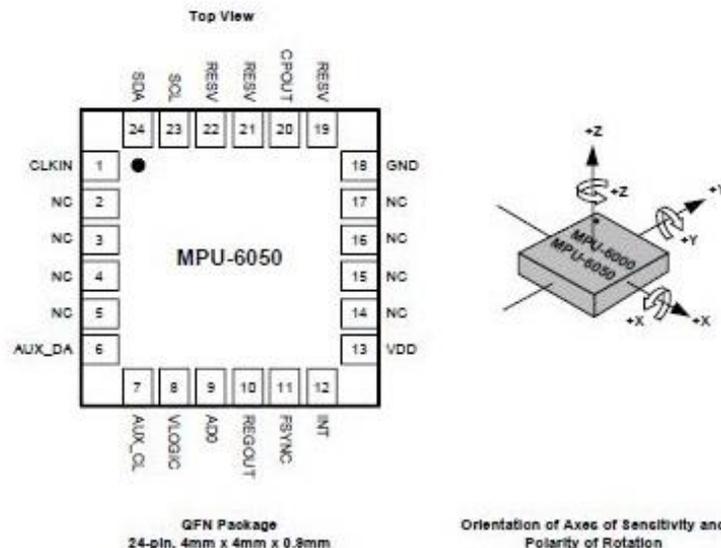
Attachment 42

Q500 IMU Data Sheet

Use of this information is at your own risk.

7.1 Pin Out and Signal Description

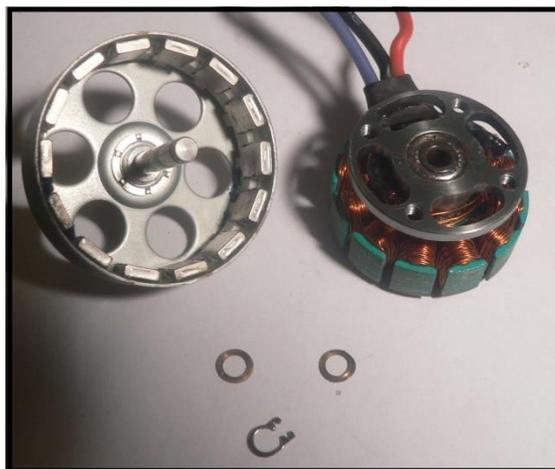
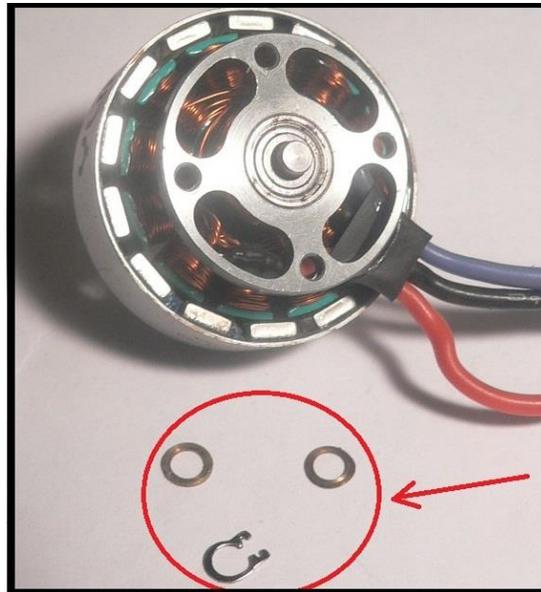
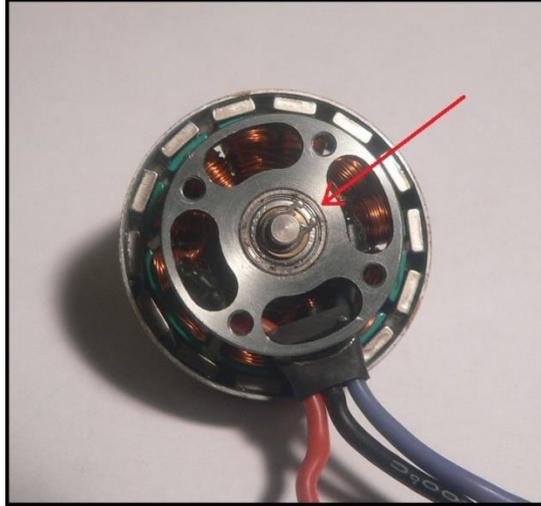
Pin Number	MPU-6000	MPU-6050	Pin Name	Pin Description
1	Y	Y	CLKIN	Optional external reference clock input. Connect to GND if unused.
6	Y	Y	AUX_DA	I ² C master serial data, for connecting to external sensors
7	Y	Y	AUX_CL	I ² C Master serial clock, for connecting to external sensors
8	Y		/CS	SPI chip select (0=SPI mode)
8		Y	VLOGIC	Digital I/O supply voltage
9	Y		AD0 / SDO	I ² C Slave Address LSB (AD0); SPI serial data output (SDO)
9		Y	AD0	I ² C Slave Address LSB (AD0)
10	Y	Y	REGOUT	Regulator filter capacitor connection
11	Y	Y	FSYNC	Frame synchronization digital input. Connect to GND if unused.
12	Y	Y	INT	Interrupt digital output (totem pole or open-drain)
13	Y	Y	VDD	Power supply voltage and Digital I/O supply voltage
18	Y	Y	GND	Power supply ground
19, 21	Y	Y	RESV	Reserved. Do not connect.
20	Y	Y	CPOUT	Charge pump capacitor connection
22	Y	Y	RESV	Reserved. Do not connect.
23	Y		SCL / SCLK	I ² C serial clock (SCL); SPI serial clock (SCLK)
23		Y	SCL	I ² C serial clock (SCL)
24	Y		SDA / SDI	I ² C serial data (SDA); SPI serial data input (SDI)
24		Y	SDA	I ² C serial data (SDA)
2, 3, 4, 5, 14, 15, 16, 17	Y	Y	NC	Not internally connected. May be used for PCB trace routing.



Attachment 43

Q500 Motor Disassembly

Use of this information is at your own risk.

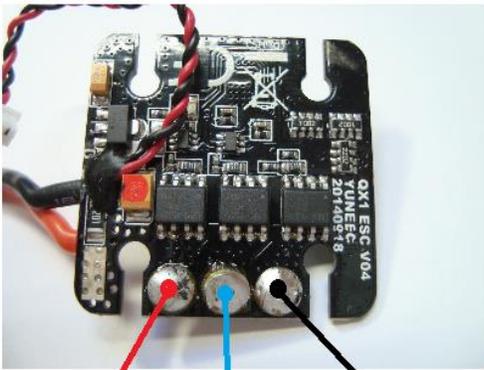


Attachment 44

Q500 ESC Motor Wire Color

Use of this information is at your own risk.

Q500 ESC Motor Wire Color

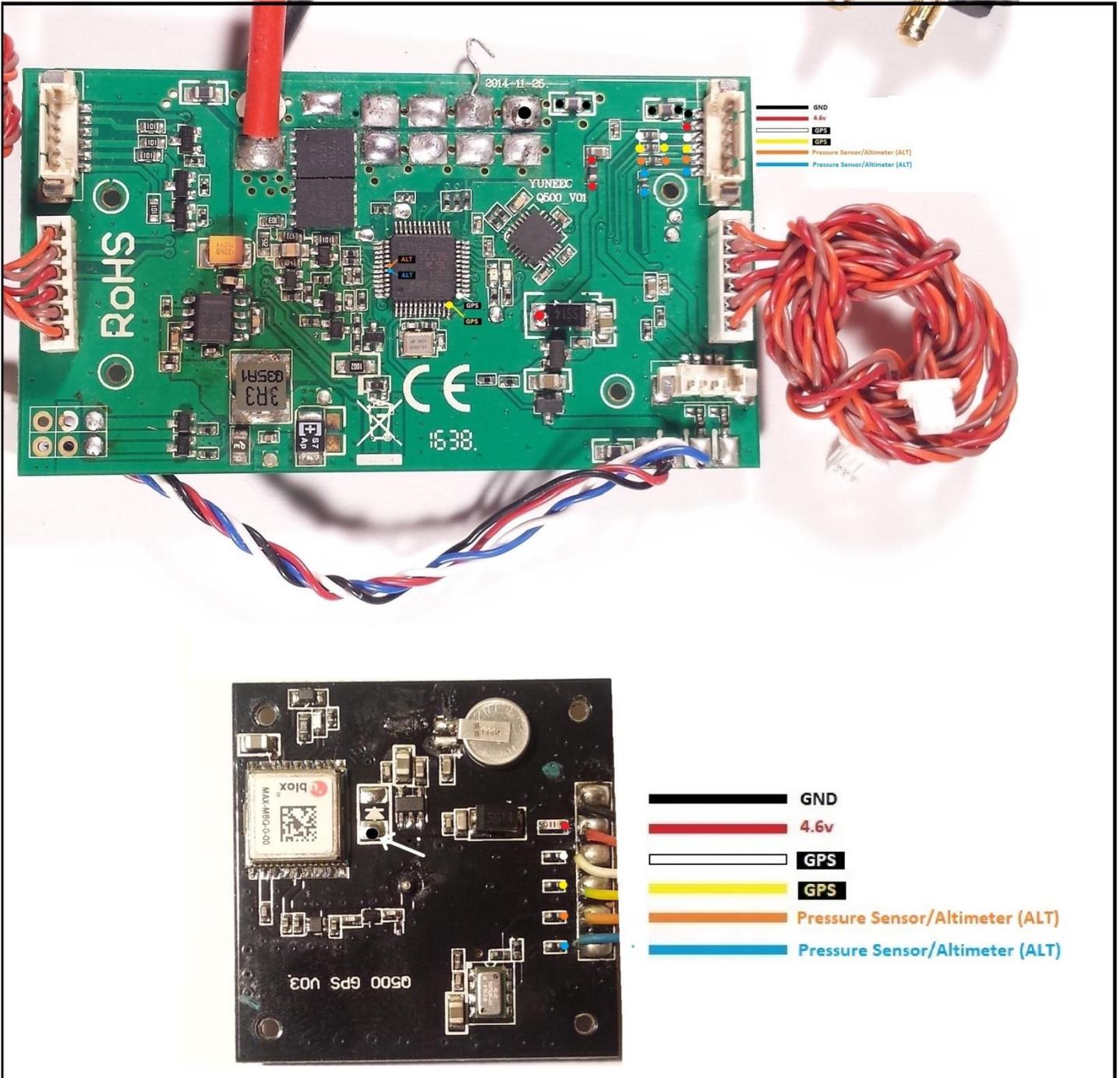


(A) RED
(B) BLUE
(C) BLACK



Attachment 45 Q500 GPS Wire Color

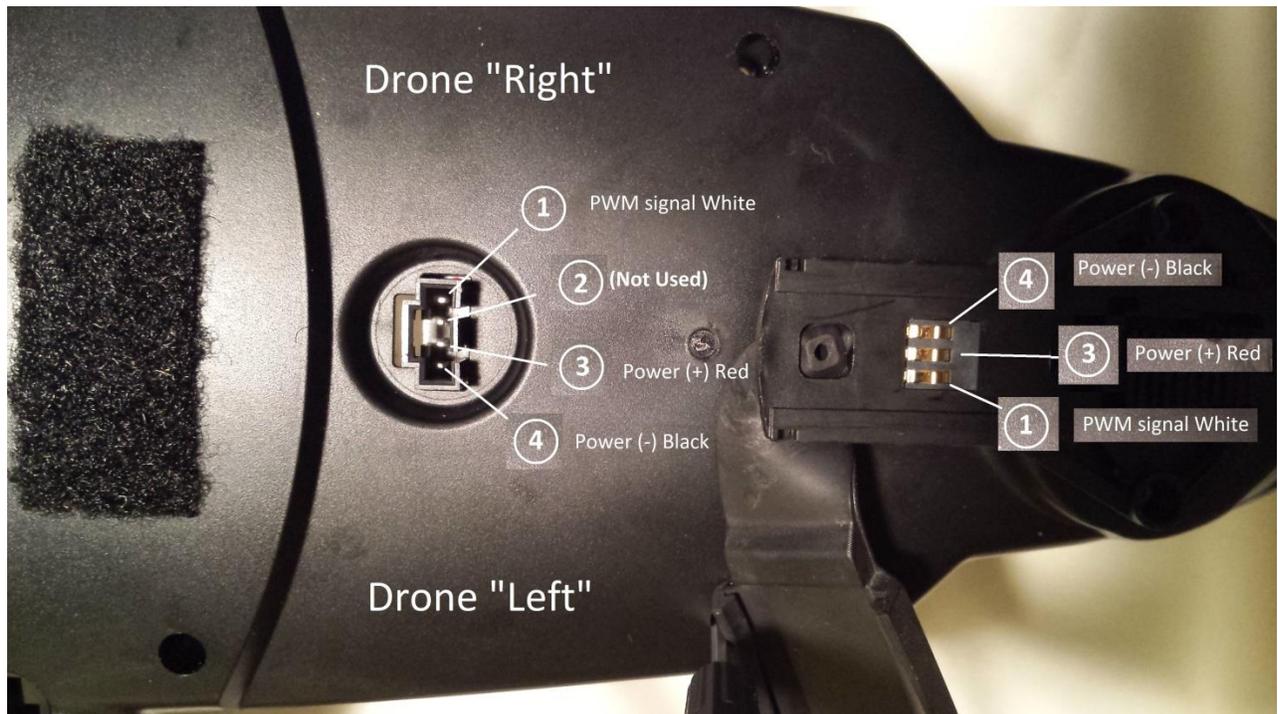
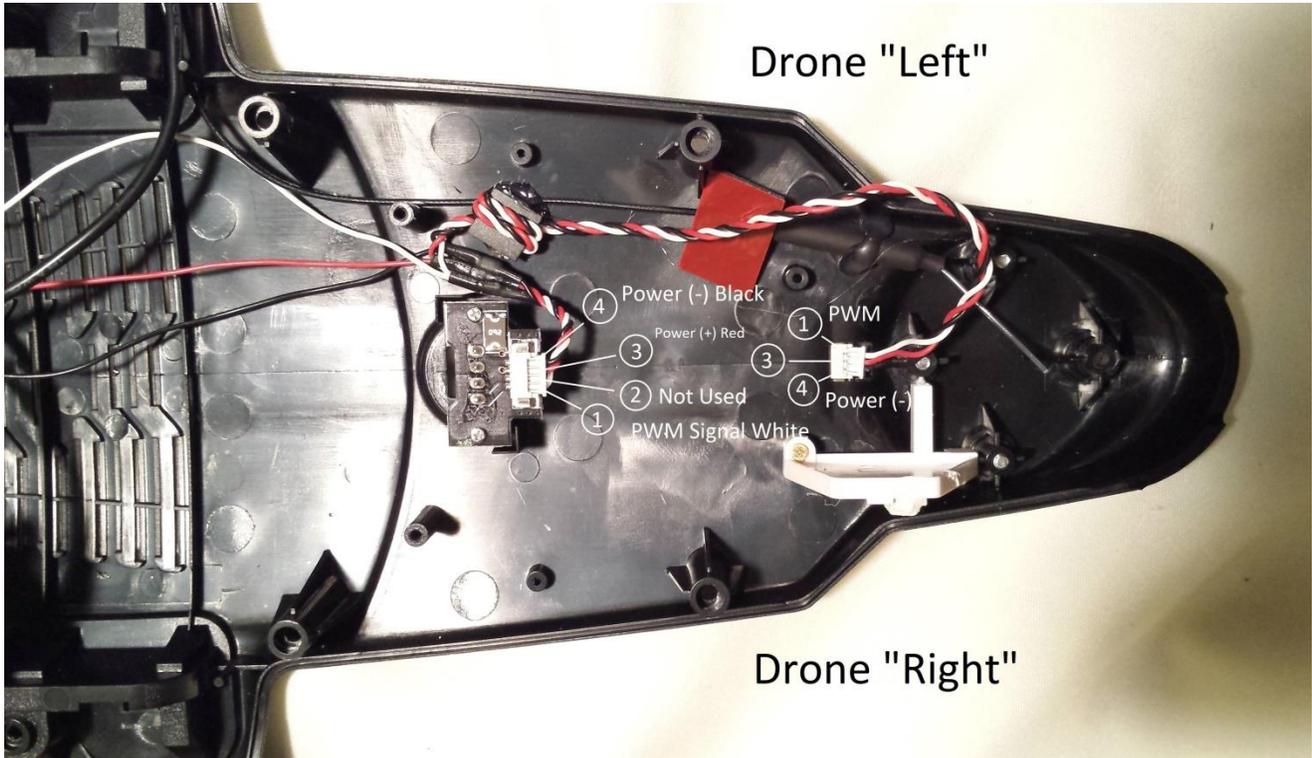
Use of this information is at your own risk.



Attachment 46

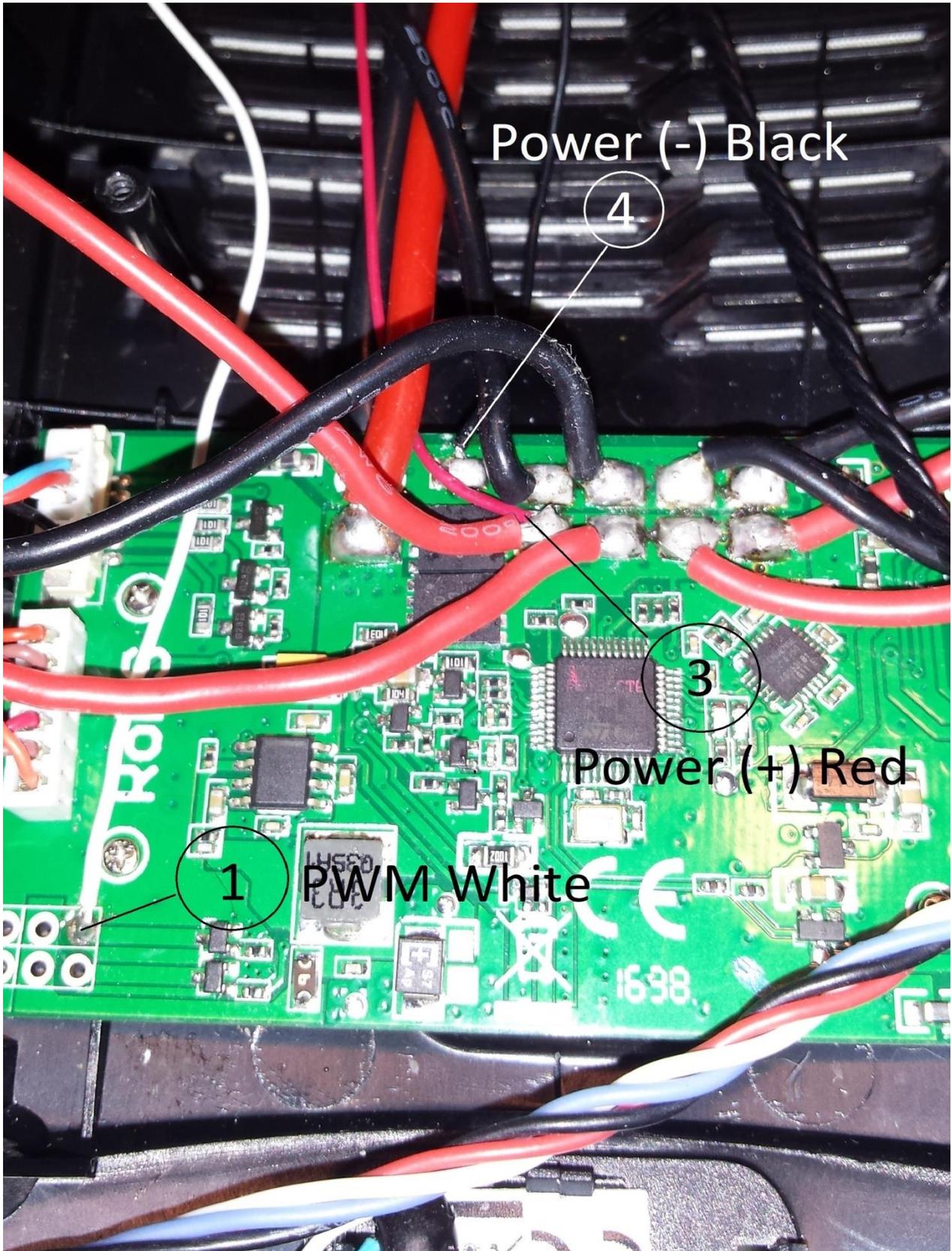
Q500 Internal Camera Wiring

Use of this information is at your own risk.



Attachment 46

Q500 Internal Camera Wiring

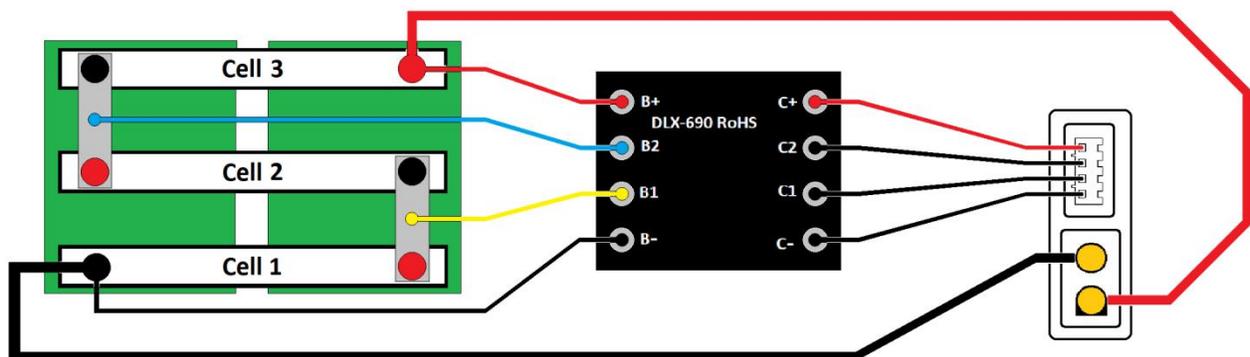
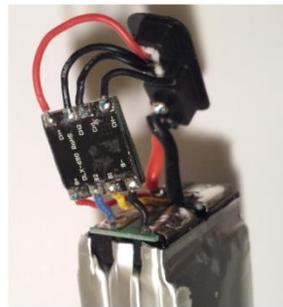


Attachment 47

Q500 Battery Internal Wiring

Use of this information is at your own risk.

Yuneec Q500 Series Internal Battery Connections



Revision 5

2019-01-20