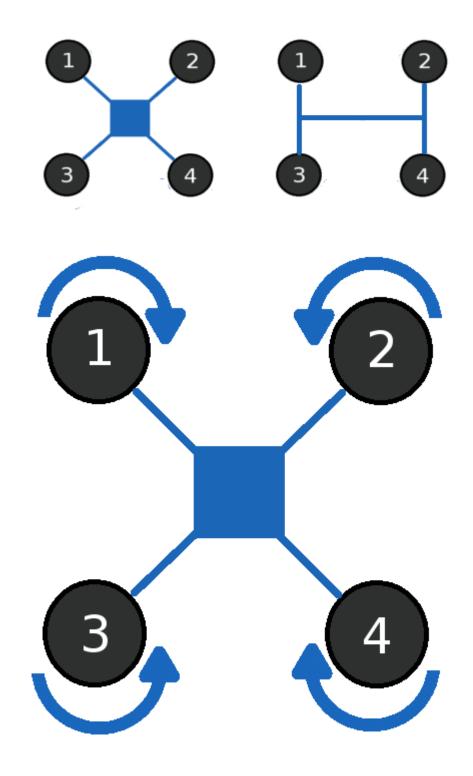
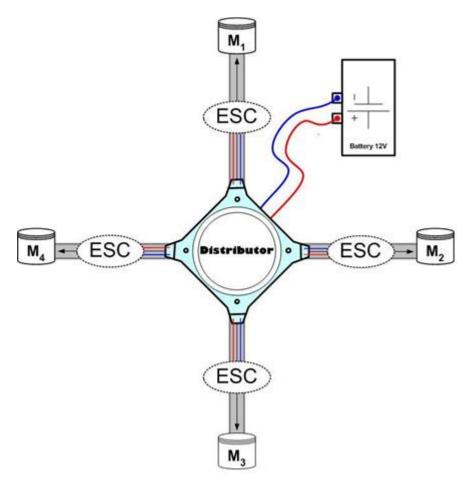
**Chapter 1: Introduction to Quadcopters** 







**Chapter 2: Hardware Overview** 



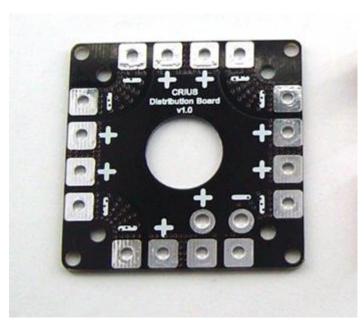
















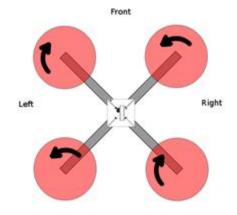




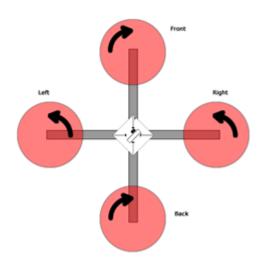


**Chapter 3: Creating a Frame** 





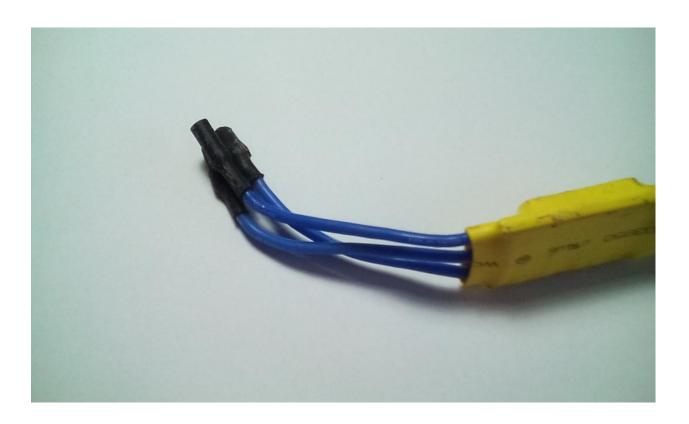
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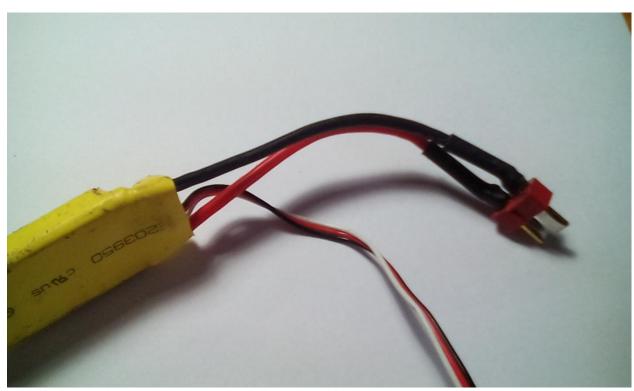




**Chapter 4: Soldering the Electronics** 



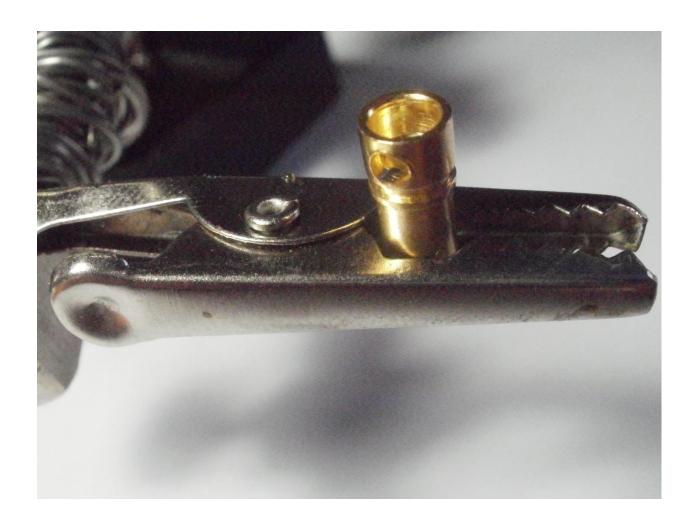




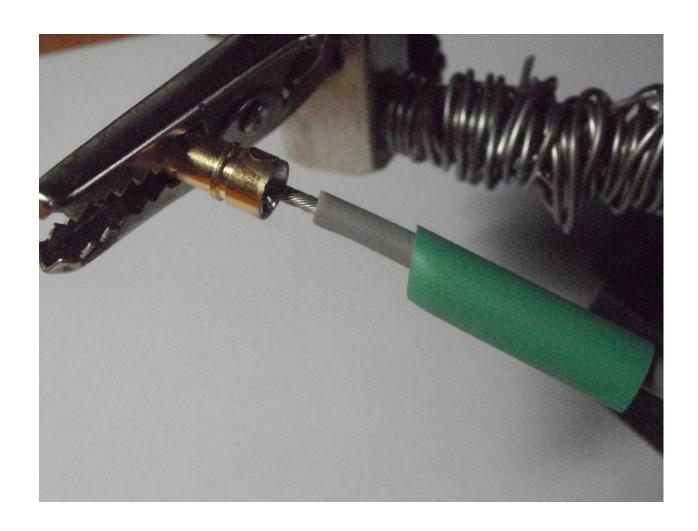


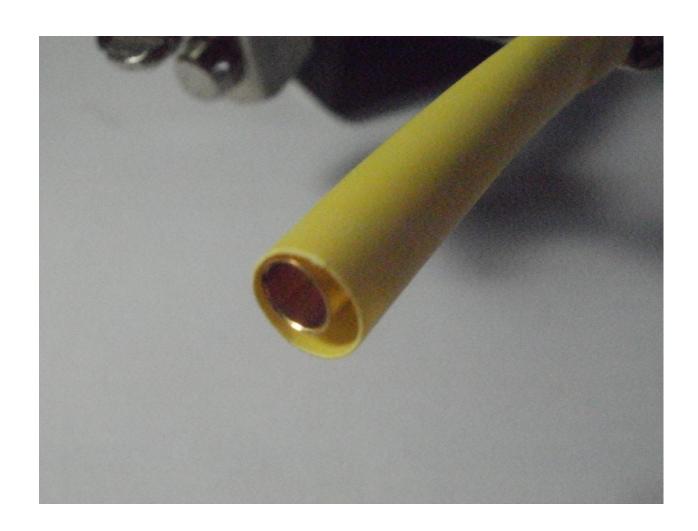


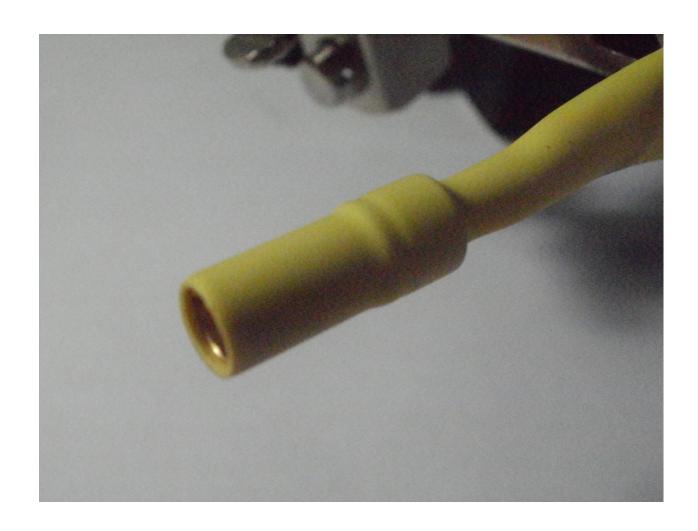




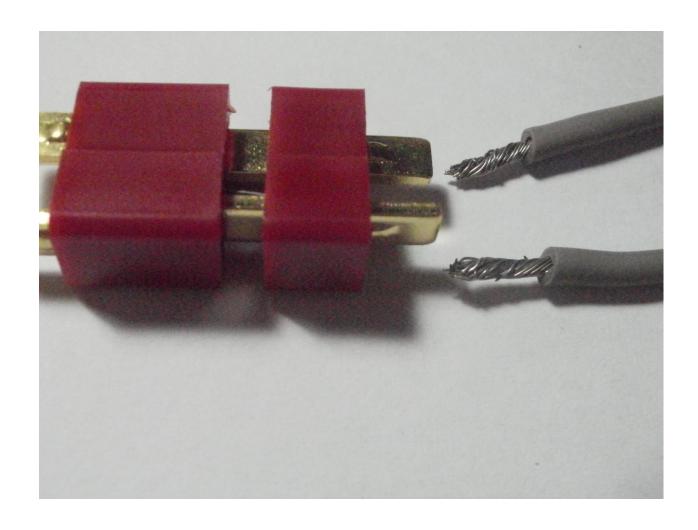


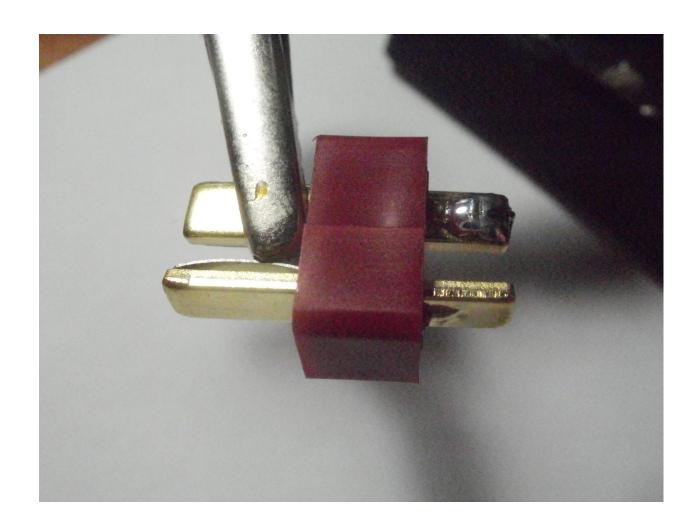


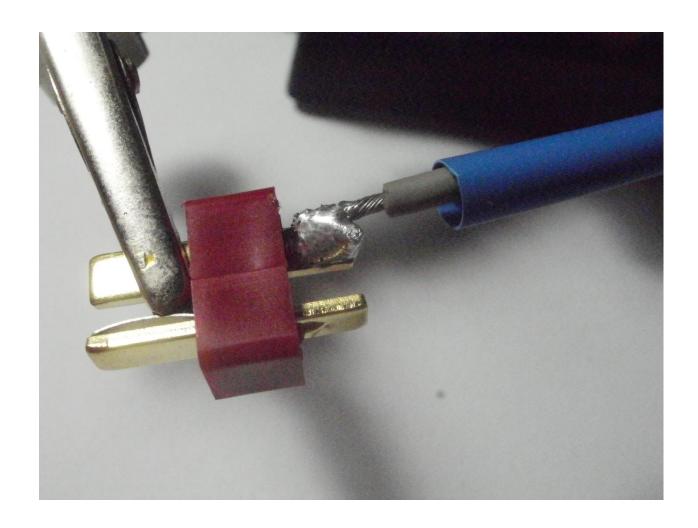


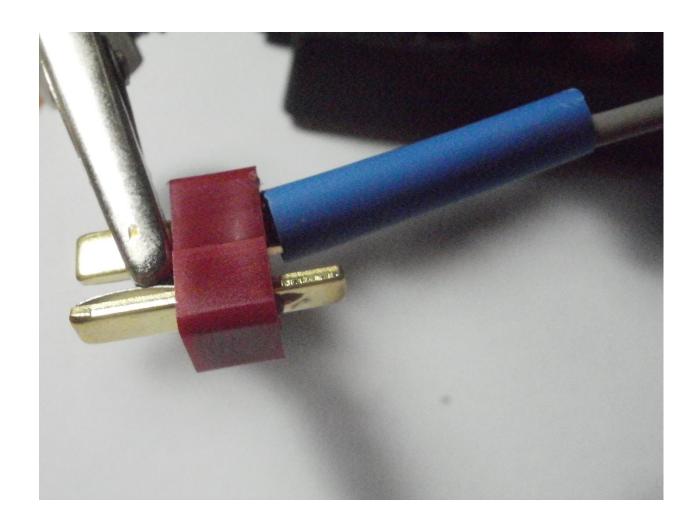


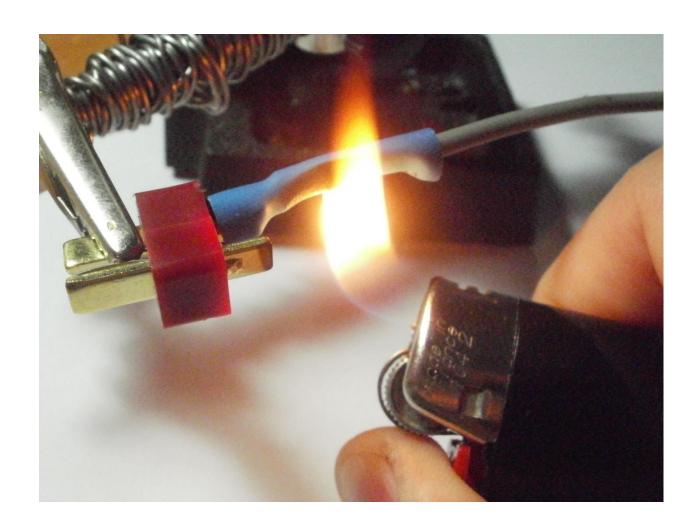


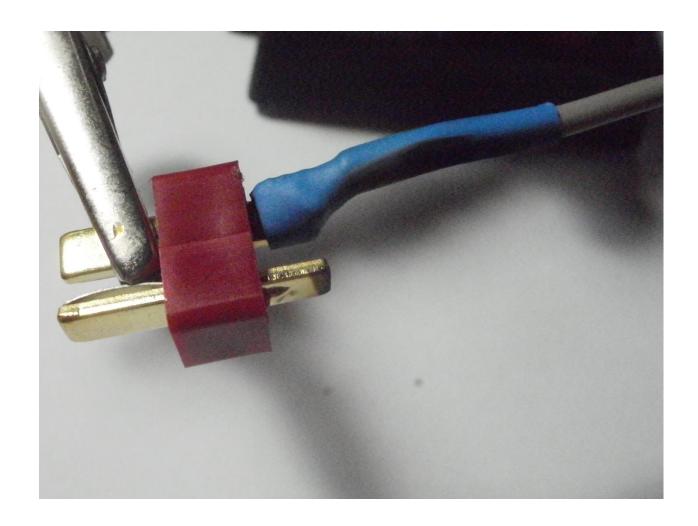


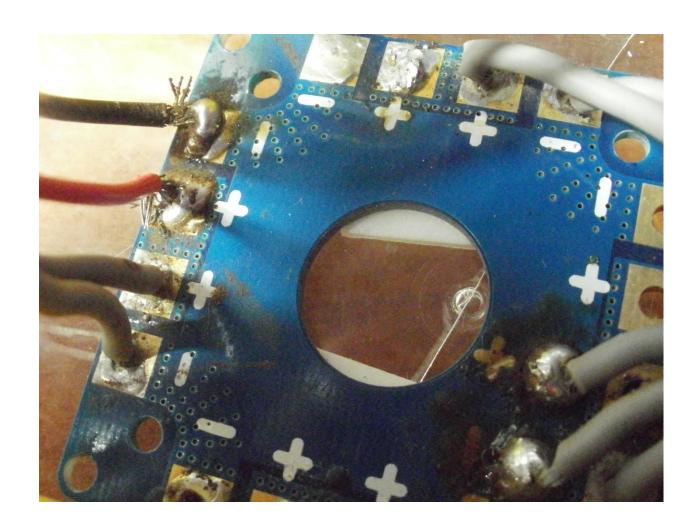






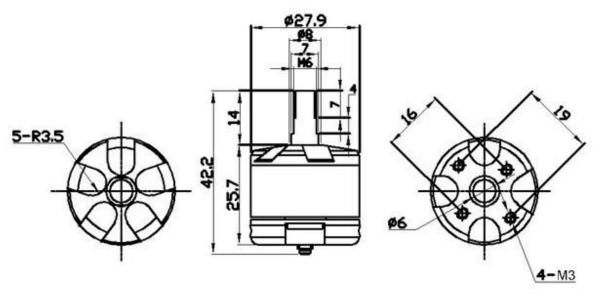




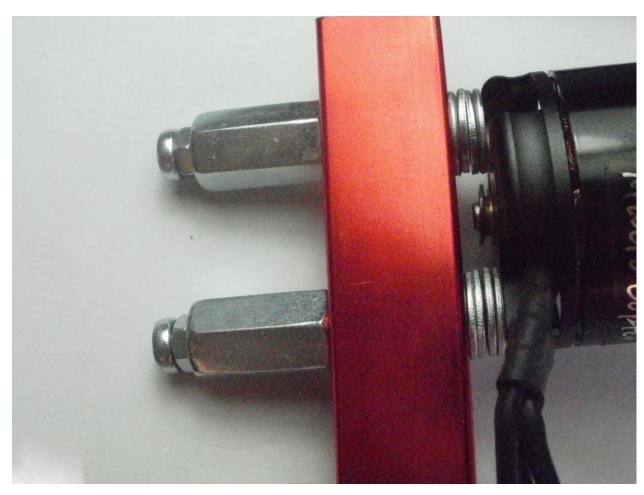


**Chapter 5: Electronics Installation** 



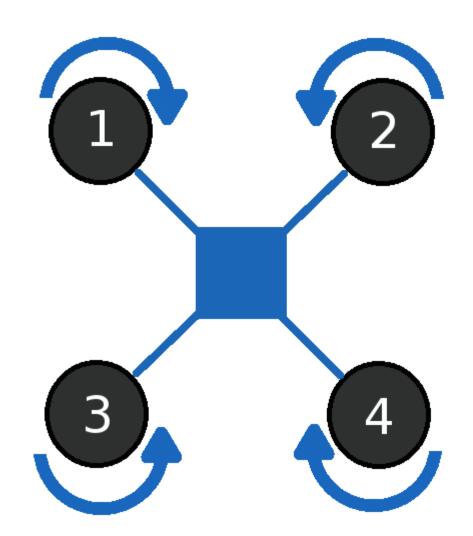


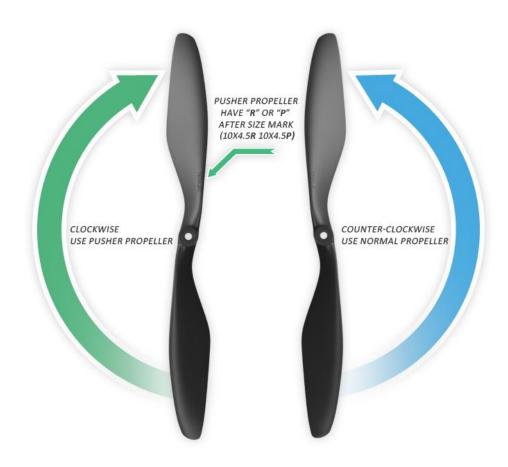


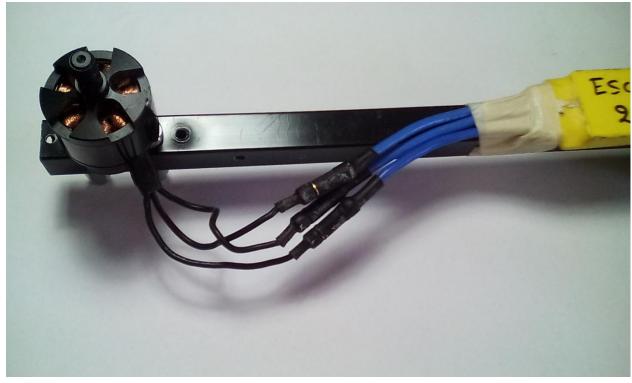






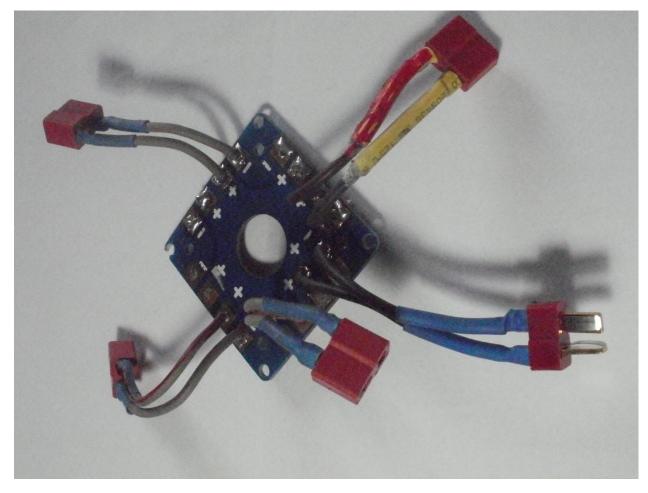


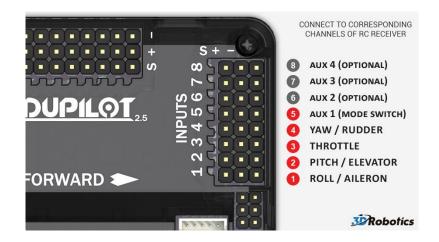






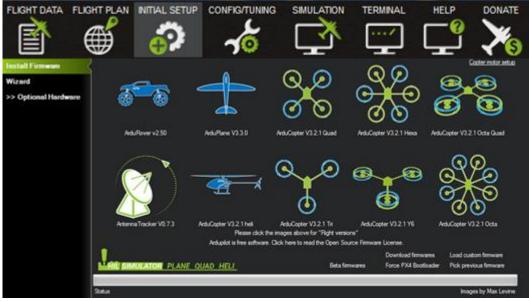


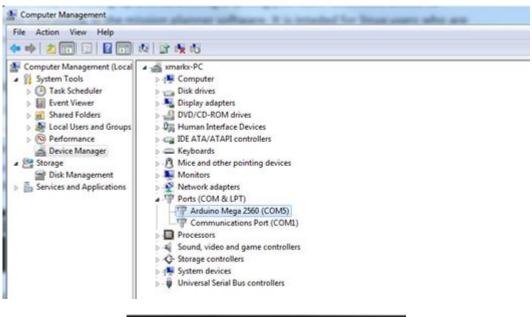




## **Chapter 6: Flight Controller Setup**







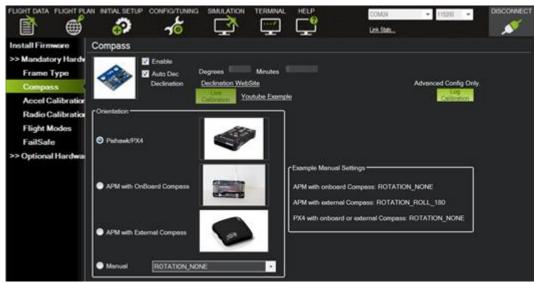














Flight Modes	Command	Value	Unite	Cytore
Seofence	AHRS_ORIENTATION			Others 176-45 274-00 374-115 475-100 176-25 475-270 775-115 876-1100 54610076-45 10 Add 10076-40 11 Feb 12076-115 12 Feb 120 13 14-110076-25 5 14-10076-115 876-110076-25 15 17 Add 10076-45 18 Feb 12076-115 12 Feb 130 13 14-10076-125 14-10076-125 15 Feb 12076-115 15 Feb 12076-115 17 Add 10076-115 18 Feb 12076-115 15 Feb 13076-125 72 Feb 12076-127 15 Feb 12076-115 15 Feb 12076
xtended Tuning	AHRS_YAW_P	0.1		0104
tanderd Params	ARMING_CHECK	0		COnstitut I Enabled 1 Skip Baro 5 Skip Company 8 Skip GPS - 17 Skip RVS - 33 Skip Farama Sonar - 45 Skip RC 137 Skip Votace
dvanced Params	COMPASS_AUTOCEC	0		0 Dealied 1 Enabled
will Parameter List	COMPASS_DEC	0	Redens	1102110
ull Parameter Tree	COMPASS_EXTERNAL			Obtained 1 External
Planner	COMPASS_LEARN	0		0 Oxabled 1 Enabled
	COMPASS_MOT_X	(0)	Offset per Amp or at Full Throttle	-1000 1000
	COMPASS_MOT_Y	0	Offset per Ang or at Full Throttie	1000 1000
	COMPASS_MOT_Z	0	Offset per Amp or at Full Throttle	-1000 1000
	COMPASS_MOTCT	0		0 Deabled 1 Like Throttle 2 Like Current
	COMPASS_OFS_X			400 400
	COMPASS_OFS_Y	0		400 400
	COMPASS_OFS_Z	0		400 600
	COMPASS_ORIENT			O None 1 Year-6 2 Year-0 2 Year-126 4 Year-100 5 Year-226 5 Year-270 7 Year-126 BRID 19 9 SRI 100 Year-126 10 Februari 1
	COMPASS_USE	0		0 Deabled 1 Enabled
	MAG_ENABLE	1		0 Deatled 1 Enabled

# **Chapter 7: Flight Instructions**

# V1.0 APM-Copter Flight Ops Checklist

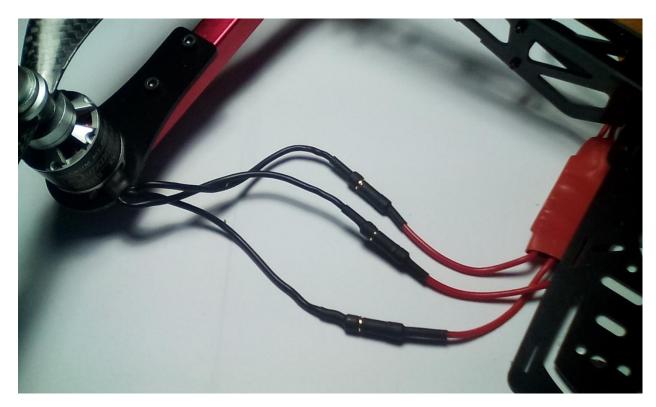
## PREFLIGHT Groundstation

### Power On Laptop..... Telemetry Module......Connect USB Telemetry Module Antenna..... Orient Vertically Com Settings...... Com Port Select, Baud 57600

Airframe/Landing Gear	No Damage
Props Secure, Undan	
Motors	
ESCs	Secure, Undamaged
GPS Receiver & Cable	
RC Rx & Connections	Secured
RC Satellite Rx and cable	Secured
Telemetry Module & Cable	Secured
APM	
APM Connections	Verify All secured
Battery	
Velcro Battery Straps	

## FLIGHT

RC Tx	Verify Throttle at Minimum
	Power On
	Verify Battery Voltage
	Verify Correct Model Selected
	Stabilize
	Place at RTL Location
	Connect (Don't move AV)
	Connect with MP
	Secure
RC Rx Antennas	Straight
Telemetry Antenna	Straight & Vertical
	ength>75%
	Ensure Correct response on AH
	Verify 0 (+/-3)
	Set
	Verify 0 (+/-3)
Battery Voltage	Fully Charged
	Verify













# **Chapter 8: Cameras and Extra Functions**









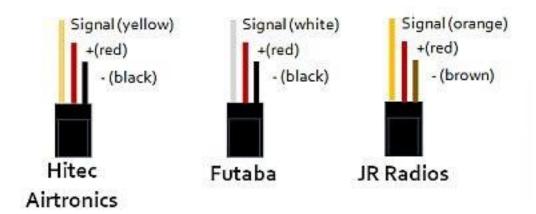






















**Chapter 9: Repair and Maintenance** 



