Item	FDL-2X BOM				
Brushless Motor	Item	Quantity	Model		
Brushless Motor	Major Components				
Section		2	Multistar Flite 2204-2300KV		
Spartfun Microview OLED/Arduino Combo		_			
Trigger Button					
Microswitch (Pusher F&R) 2 Digikey P10864S-ND					
6-32 Machine Screw 3/8 6-32 Machine Screw 1/2 6-32 Machine Screw 1/2 6-32 Machine Screw 1/3 6-32 Machine Screw 1/4 71			<u> </u>		
6-32 Machine Screw 3/8 33	Hardware				
6-32 Machine Screw 1/2 6-32 Machine Screw 1/3 6-32 Machine Screw 1/3 10-32 Set Screw 1/4 11 10-32 Set Screw 1/4 11 11 110-32 Set Screw 1/4 11 11 11 110-32 Set Screw 1/4 11 11 11 11 11 11 11 11 11 11 11 11 11		33			
6-32 Machine Screw 14 3 10-32 Set Screw 174 1 110-32 Set Screw 19 M2x6 Cank Hex Screw 9 M2x6 Cank Hex Screw 9 M2x6 Cank Hex Screw 9 M3x6 Cank Hex Scr					
6-32 Machine Screw 1 10-32 Set Screw 144 #10 washer 1 #10 Mixe Hex Screw 9 #10 Mixe Cank Hex Screw 9 #10 Mixe Cank Hex Screw 9 #11 Mixe Cank Hex Screw 9 #12 Mixe Cank Hex Screw 9 #13 Mixe Cank Hex Screw 9 #14 Mixe Cank Hex Screw 9 #15 Mixe Cank Hex Screw 3 #16 Mixe Cank Hex Screw 9 #17 Mixe Cank Hex Screw 9 #18 Mixe Cank Hex Screw 9 #19 Mixe Cank Hex Screw 9 #10 Mixe Cank Hex Screw 9 #10 Mixe Cank Hex Screw 9 #10 Mixe Cank Hex Screw 9 #11 Mixe Cank Hex Screw 9 #11 Mixe Cank Hex Screw 9 #12 Mixe Cank Hex Screw 9 #18 Mixe Cank Hex Screw 9 #19 Mixe Cank Hex Screw 9 #10 Mixe Cank Hex Screw 9 #11 Mixe Cank Hex Screw 9 #11 Mixe Cank Hex Screw 9 #12 Mixe Cank Hex Screw 9 #11 Mixe Cank Hex Screw 9 #12 Mixe Cank Hex Screw 9 #12 Mixe Cank Hex Screw 9 #13 Mixe Cank Hex Screw 9 #14 Mixe Cank Hex Screw 9 #15 Mixe Cank Hex Screw 9 #15 Mixe Cank Hex Screw 9 #15 Mixe Cank Hex Screw 9 #16 Mixe Cank Hex Screw 9 #17 Mixe Cank Hex Screw 9 #17 Mixe Cank Hex Screw 9 #17 Mixe Cank Hex Screw 9 #18 Mixe					
10-32 Sel Screw 1/4					
#10 washer		- 			
M3x8 Hex Screw					
M2x5 Csnk Hex Screw 9 M3x6 Csnk Hex Screw 3 Spring from ballpoint pen 1 Right angle m-m pin header (2 pin) 1 DCP PCB PCB DCP 1 PCB DCP 1 FDL-2 DCP V1.2 N Channel Mosfet 1 Digikey IRLU3410PBF-ND NPN Transistor 1 Digikey IRLU5505PBF-ND NPN Transistor 1 Digikey UF4007CT-ND Header Male 2p 3 3 Resistor 10k 3 3 Control PCB PCB Control 1 FDL-2X CTL V1.1 Header Fm 8p 2 2 Resistor 10k 1 1 Resistor 10k 1 1 <		_			
M336 Cank Hex Screw 3 Spring from ballpoint pen 1 Right angle m-m pin header (2 pin) 1					
Spring from ballpoint pen					
Right angle m-m pin header (2 pin)					
DCP PCB					
FCB DCP	Right angle m-m pin header (2 pin)	1			
N Channel Mosfet					
Digikey IRFU5505PBF-ND	PCB DCP	1	FDL-2 DCP V1.2		
Digikey IRFU5505PBF-ND	N Channel Mosfet	1	Digikey IRLU3410PBF-ND		
NPN Transistor	P Channel Mosfet				
Digikey UF4007CT-ND					
Header Male 2p 3 3	Flyback Diode				
Resistor 10k 3 Control PCB	-		,		
PCB Control		3			
PCB Control	O- water I DOD				
Header Fem 8p		4	EDL OV OTL VA 4		
Resistor 10k		_	FDL-2X GTL V1.1		
Resistor 10k	·	- 			
Resistor 100k					
Tactile Switch 1 Digikey 450-1643-ND Rotory Encoder 1 Digikey PEC11R-4215K-S0024-ND Buzzer 1 Digikey 102-1152-ND NPN Transistor 1 Digikey 2N4401-ND Header Male 2p 5 Header Male 3p Header Male 3p 1 ESC Control M-F Y Splitter Servo Cable 1 Power Distro/ESC Bundle 3.5mm bullet conn male 1 Female Tab Conn 1/4 12ga 1 JR Conn Male & shell Battery Adapter XT60 conn male 1 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk 1		_			
Rotory Encoder			Distless 450 4040 ND		
Digikey 102-1152-ND					
Digikey 2N4401-ND	-				
Header Male 2p 5 Header Male 3p 1 ESC Control M-F Y Splitter Servo Cable 1 Power Distro/ESC Bundle					
Header Male 3p		_	DIGIKEY ZN44UT-ND		
ESC Control					
M-F Y Splitter Servo Cable 1 Power Distro/ESC Bundle 3.5mm bullet conn male 1 Female Tab Conn 1/4 12ga 1 JR Conn Male & shell 1 Battery Adapter XT60 conn male 1 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk	неадег маге зр	1 1			
M-F Y Splitter Servo Cable 1 Power Distro/ESC Bundle 3.5mm bullet conn male 1 Female Tab Conn 1/4 12ga 1 JR Conn Male & shell 1 Battery Adapter XT60 conn male 1 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk	ESC Control				
3.5mm bullet conn male 1 Female Tab Conn 1/4 12ga 1 JR Conn Male & shell 1 Battery Adapter XT60 conn male 1 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk		1			
3.5mm bullet conn male 1 Female Tab Conn 1/4 12ga 1 JR Conn Male & shell 1 Battery Adapter XT60 conn male 1 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk	B				
Female Tab Conn 1/4 12ga 1 JR Conn Male & shell 1 Battery Adapter XT60 conn male 1 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk		1			
JR Conn Male & shell Battery Adapter XT60 conn male 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk					
Battery Adapter XT60 conn male 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk					
XT60 conn male 1 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk	OTT SOUTH MAIO & SHEII	+ '			
XT60 conn male 1 3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk	Battery Adapter				
3.5mm bullet conn female 1 Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk		1			
Female Tab Conn 1/4 16ga 1 16ga high strand silicon wire red/blk		+			
16ga high strand silicon wire red/blk					
		<u> </u>			
Notes					
INUES	Notes				

FDL-2X BOM				
Item	Quantity	Model		
Use 16ga silicon wire for battery connections, 22ga silicon wire for pusher motor and volt meter connections				
Use 24-26ga color coded wires for all digital signal wiring				
It is up to you how you choose to connect components to the PCB's. Choose simple slide connectors and crimp pins,				
JST connectors, or solder directly to t	he boards			