

Mark IV Champ Bill of Materials (non-laser parts)

Fuselage & Tail (Common)

3	1/4 x 3/8 Sticks	Stab outline	
1	1/4 Square	Stab internal structure	
2	1/4 Square	Fuse top rear, wing saddle, and nose	
2	1/4" Triangle	Fuse/Bottom	
2	1/2" x 2"W x 2.5"L	Soft block, cowl top & bottom	
scrap	1/8" Square	Cut from scrap for elevator "ribs"	
2	1/4" x 5" dowel	Wing hold downs (optional)	

3-channel (RET) Wing

6	1/4" square	Leading Edge, Spars	
8	3/16" square	Turbulator Spars	
1	1/16" x 3" x 36"	Root sheeting	

4-channel (Aileron) Wing

8	1/4" square	Leading Edge, Spars	
8	3/16" square	Turbulator Spars	
1	1/16" x 3" x 36"	Root sheeting	
2	1" x 1/4" Tapered	Aileron Stock	
2	HS-81 Servo	or equiv, ailerons (Spektrum A40x0, A50x0)	
2 pc	Dubro 107	Control horns	DUB107

Misc Items

2	10-32 blind nuts	Wing hold down (optional)	DUB584
2	10-32 Nylon bolts	Wing hold down (optional)	DUB164
4	4-40 blind nuts	Motor mount	DUB135
4	4-40 x 3/4" steel	Motor mount	
4	4-40 blind nuts	Landing Gear mount	DUB135
4	4-40 x 1/2" nylon	Landing Gear mount	
1	Receiver	3-6 channel	
2	HS-81 Servo	Elevator/Rudder	
2 pc	Dubro 107	Control horns, Elevator/Rudder	DUB107
2	Pushrods		
1	Dubro 375	Tailwheel bracket	DUB375
1	Sullivan S351	3/4" tailwheel	SUL351
1	GPMQ1810	Landing gear (optional, see plans)	
1	2-3/4" wheels	or equiv, wheels	HAN305
1	To fit wheels	or equiv, axles (HAN305 requires bushing)	DUB246
1 pkg	Dubro 117	Hinges	DUB117

Glow

1	Sullivan #437	Fuel Tank	SUL437
1	Spektrum A5040	or equiv, throttle servo	SPMSA5040
1	Glass-filled engine mount		
1	Engine, .15 to .32		
1	Pushrod	Throttle servo to carb	
1	Receiver battery pack		
1	Rx Power Switch		SPM9532

Electric

1	E-flite Power 15	or equiv, motor	
1	E-flite 30A	or equiv, ESC	