

			0.070 gm sqin.	0.083 gm sqin.	Mass gm	Local cg	Station	Total arm	torque
3 mm.	8.2 sq. in.	foam	fin		0.68	1.8	11.3	13.1	8.9
3 mm.	22.3 sq. in.	foam	stab & elev		4.0	1.66	10.25	11.91	22.05
		plastic	rudder horn						
		plastic	elev horn						
	.078 gm/in	carbon fiber rod	stab stiffener						
2 mm.	35.4 sq. in.	foam	fuselage		2.95	7.84	-2.28	5.56	16.4
	.167 gm/in	carbon fiber tube	fuselage stiffener		2.41	7.24	-2.09	5.15	12.41
	.0625 gm/in	carbon fiber	fuselage stiffener		0.51	0	1.75	1.75	0.90
3 mm.	66.3 sq. in.	foam	Wing		9.0	2.18	0	2.18	12.0
3 mm.	66.3 sq. in.	foam	Wing		9.0	2.18	0	2.18	12.0
	.167 gm/in	carbon fiber	Wing stiffeners						
3 mm.	5.2 sq. in.	foam	Wing strut		0.44	0.635	1.1	1.735	0.76
3 mm.	5.2 sq. in.	foam	Wing strut		0.44	0.635	1.1	1.735	0.76
		wire	aileron pushrod		0.5	1.0	0.55	1.55	0.78
		plastic	tail skid		0.5	-	-	12.5	6.25
			LG & Wheels		4	0.0	-0.85	-0.85	-3.4
					<u>28.1</u>				<u>103.1</u>

GWS Lps-r	Motor spinner & Prop	30		1.65		-3.75		-2.10	-63
bb303	Elevator Servo	4	+5	.40 to tab	4.40		4.40	4.8	21.6
bb303	Rudder Servo	4	+5	.40 to tab	4.40		4.40	4.8	21.6
bb303	Aileron Servo	4	+5	.40 to tab	0.26		0.26	0.66	2.97
rx72n	Reciever/esc	5.5		.5	1.6		1.6	2.1	11.55
LiPo340	Battery	26		1.05	0.25		0.25	1.30	33.8
		<u>75.0</u>							<u>28.6</u>

		103.1						131.7	1.28
Actual weight		105	glue etc.		3.8				1.25

cg@ 1.25 arm of extra weight 3.32

wing Area 133 sq in. wing loading .80 gm/sq.in.