

			0.070 gm sqin.	0.083 gm sqin.	Mass gm	Local cg	Station	Total arm	torque
3 mm.	7.17 sq. in.	foam	rudder		0.60	0.70	12.4	13.1	7.9
3 mm.	22.3 sq. in.	foam	stab & elev		1.85	1.66	10.25	11.91	22.05
		plastic	rudder horn		0.20	0.25	12.3	12.55	2.51
		plastic	elev horn		0.20	0.25	11.8	12.05	2.41
	.078 gm/in	carbon fiber rod	stab stiffener		0.40	0.03	11.90	11.93	4.77
2 mm.	42.1 sq. in.	foam	fuselage & fin		3.50	7.65	-2.23	5.42	19
	.11 gm/in	carbon fiber longeron	fuselage stiffener		1.6	7.15	-1.90	5.25	8.4
	.11 gm/in	carbon fiber longeron	fuselage stiffener		1.6	7.15	-1.90	5.25	8.4
	.0625 gm/in	carbon fiber	fuselage stiffener		0.51	0.13	1.35	1.48	0.74
3 mm.	66.3 sq. in.	foam	Wing		5.5	2.18	0	2.18	12.0
3 mm.	66.3 sq. in.	foam	Wing		5.5	2.18	0	2.18	12.0
	.0625 gm/in	carbon fiber	Wing stiffeners		4.5	0.125	1.36	1.48	6.65
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 pushrods		1.5	1.35	2.62	3.95	6.0
		carbon fiber rod	elevator pushrod		1.5	5.2	1.5	6.7	10.05
		carbon fiber rod	rudder pushrod		1.5	4.67	1.5	6.2	9.3
		foam liteply	motor mount		3.0	0.1	-2.04	-1.94	-5.85
		carbon fiber rod	tail skid		0.5	-	-	12.0	6.00
			LG & Wheels		4	0.0	-.85	-.85	-3.4
					<u>38.9</u>				<u>130.5</u>
		GWS 70x3.5	Prop		2	0.1	-2.9	-2.8	-5.6
		GS-1815/25	Motor& wires		13	0.75	-2.9	-2.15	-27.95
		HS50	Elevator Servo		6	.2 to case	1.3	1.5	9.0
		HS50	Rudder Servo		6	.2 to case	1.3	1.5	9.0
		HS50	Aileron Servo		6	.0 to case	5.1	5.1	30.6
		BERG	Reciever		4.5	.3	0.4	0.7	3.2
		Thunderbird 6	Esc		4.5	.5	-1.15	-0.65	-2.9
		EVO350	Battery		21	1.14	-1.38	-0.24	-5.04
			Antenna		1	0	0.0	12	12
					<u>64</u>				<u>22.3</u>
					103				152.8
		Actual weight			102	glue etc.	3.8		1.46

cg@ 1.55

wing Area 133 sq in. wing loading .815 gm/sq.in.