

General Instructions

My model first flew in 1996. It is still going well eleven years later. The only upgrade is improved batteries.

Original battery was an 8 cell 1.2 Ah nicad [690 watt minutes, 17oz]. Present battery is a 2.5 Ah, 3S lipo [1665 watt minutes, 7.5 oz].

The drawings incorporate a further change, which has not been applied to my prototype. This is the replacement of the large single aileron servo with two mini servos.

The original direct-drive 7.2V Speed 400 motors are still performing well. Brushless motors could be used, to advantage.

The model is designed to be hand-launched, and landed on grass. It is not waterproof or seaworthy.

It may be that few modellers will want to make an exact copy. However the plans could be useful as a basis for customised versions.

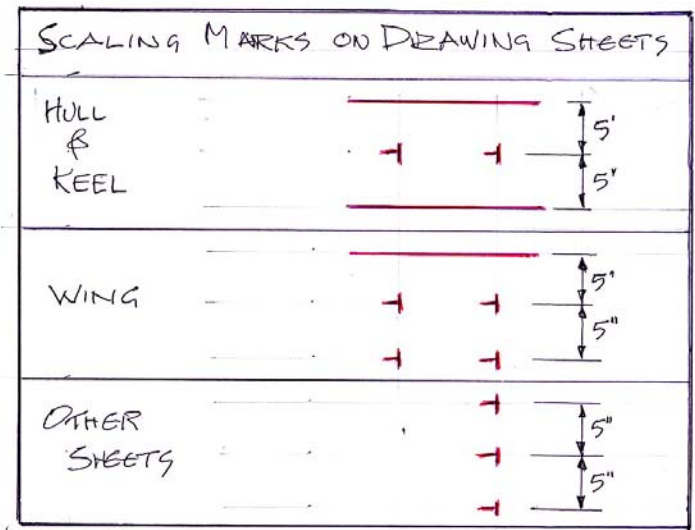
Data

Scale [hull].....1/24
Hull length.....42.7"
Span [overscale].....61"
Wing area.....3.1 sq ft
Weight [7.5 oz batt].....54 oz
Wing loading.....17.4 oz/sq ft
Installed power [battery output].....300w
Centre of gravity is 3.2" aft of bodyside leading edge.

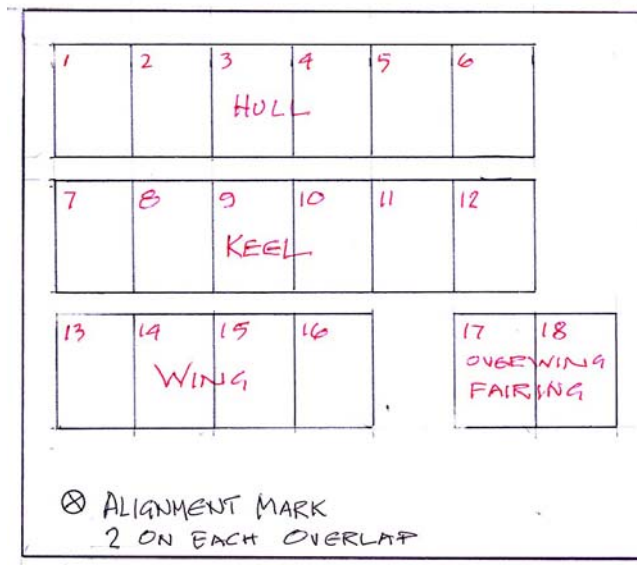
Drawings

Plans are spread over 44 sheets, A4 size.

All sheets have marks which enable you to check the size of your prints.

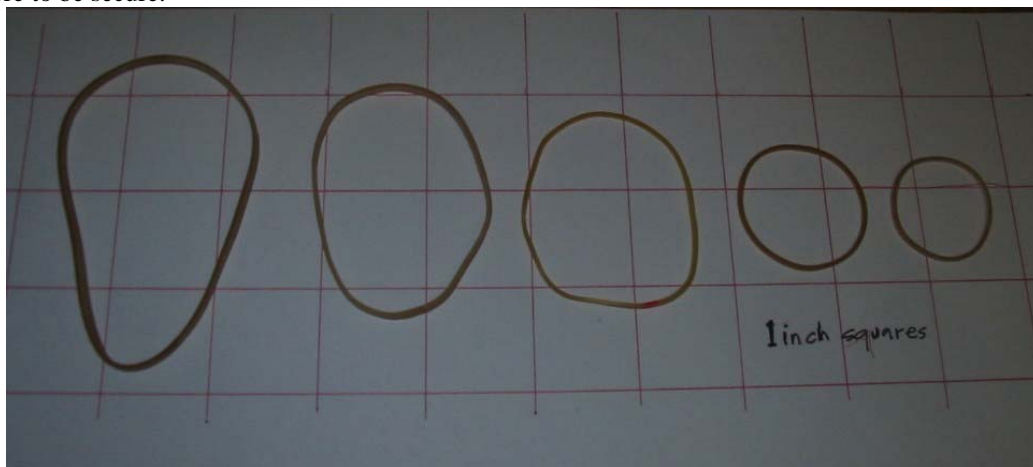


Some sheets have to be joined.



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In writing these notes, I have assumed that the reader is a competent model builder. I have gone into detail only where the peculiarities of the design make that desirable.
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The hull drawing [sheets 1 to 6] shows the rubber bands which hold it all together. The photo shows the various bands used. For safety, don't use less than two at any position. Wing-to-hull may require six or more to be secure.



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Power train

Motors.....4 x Speed 400, 7.2V
Battery.....3S Lipo, 2.5Ah
ESC.....50A
Props.....5"dia x 4"pitch...cut from Master 6 X 4, IC.
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Pre-flight test run

EMF.....9.6V
Current.....30A
Battery out power.....290W
RPM.....14,100
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