

ALGEBRA 4M

This model is a direct descendant of the popular ALGEBRA range, starting from the 2M 2.5M and 3M. When we were designing the 4M we were a little concerned about its performance would it be significantly better than the 3M. For those of you who have had and flown the 3M know it is a very competitive machine and difficult to beat at Thermal soaring events not only that, its ease of handling on and off the tow line is impressive. We need not have worried, three proto-types were flown and tested against the 3M and we are very pleased to say it out performed the 3M in every way. The sink rate is lower, glide angle better and it penetrates strong winds with less ballasting whilst retaining the good handling qualities of the 3M. The wing section chosen for the 4M is the Selig 3021 (this section has proved very popular with the owners of the Algebra 2.5M), its outstanding feature is its ability to penetrate strong winds without recourse to excessive ballasting. This of course does not mean the 4M will only fly fast or be competitive in winds, on the contrary due to its light wing loading it can be trimmed right back for minimum sink without exhibiting any nasty tendencies and float on and on. For thermal duration we would recommend the Rudder Elevator version, also for light wind slope soaring. For anyone wanting to fit ailerons plans are available on request. The aileron version we would recommend for every day slope soaring, its ideal for slope cross country and for windy weather thermal where its ability to manoeuvre with the ailerons is an advantage for those spot landings. Airbrake details are included on the plan, for a simple barndoor brake. Recommended commercial brakes are available from our Mail Order Dept. The kit is supplied with a strong metal tow hook to take the strain of towing, the 4M is suitable for launching with a 3/8th EMP Laytex Bungee, hand towing or power winch if correctly operated. Construction of the 4M follows our normal practise of obechi veneered styro foam for the wings, which have spar slots already cut to take the main and sub spars. The wings are retained by two very substantial steel rods which are located in metal tubes let into plywood blocks. There are two fuselages available, one of glassfibre, the other of ply/balsa construction. There is little to choose between the two, the glassfibre one is probably a little stronger and it weighs about 2ozs (60g) heavier, the wooden version would be easier to repair if damaged. There is sufficient room with either fuselage for any normal RC unit with three servos and a 500mah nicad battery pack. The glassfibre version comes in White (or Red when available). The elevator is of the all moving type and is all balsa sheet, the kit is very complete, all links, pushrods, closed loop, ballast tubes etc are supplied, all you would require is glue and covering material. The aileron version will require a mini servo in each wing to operate the ailerons. We can supply Micro Star servos with ball races and all metal gears, it also has lugs for mounting flat, ideal for ailerons. The airbrakes on both versions are operated by a servo mounted in the fuselage. Ballast tubes are supplied with the kit and are located within the wing at the C. of G. position, these tubes have a total length of 48" (1220mm). We can supply the weights in 24" lengths, when fully loaded this will increase the weight by over two lbs (one kilo). The kit comes packed in a strong box which is suitable for mailorder including most overseas countries.

WING SPAN	151"
WING AREA	1119" ²
OVERALL LENGTH	53"
WEIGHT APPROX UNBALLASTED	
RUDDER VERSION	74 ozs
AILERON VERSION	78 ozs
WING LOADING RUDDER VERSION	
UNBALLASTED	9.5oz ft ²
BALLASTED	14.0oz ft ²

CONTROLS - RUDDER ELEVATOR AIRBRAKE
RUDDER ELEVATOR^{OR} AILERON AIRBRAKE
RUDDER BY CLOSED LOOP SYSTEM
ELEVATOR BY PUSHROD
AILERON MINI SERVO IN EACH WING
AIRBRAKE SERVO IN FUSELAGE
WING SECTION SELIG 3021
ASPECT RATIO 20.3 to 1