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PLANS HANDBOOK

A FULLY ILLUSTRATED CATALOGUE OF THE FAMOUS AERO-MODELLER PLANS TOGETHER WITH INSTRUCTIONAL ARTICLES TO HELP YOU TO BUILD AND OPERATE BETTER MODELS

Published by:

MODEL & ALLIED PUBLICATIONS LTD. 13-35 Bridge Street, Hemel Hempstead, Herts. SPRING 1971

This catalogue supersedes all previous issues

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HOW TO CHOOSE THE RIGHT ENGINE FOR YOUR MODEL

Put the right engine in your A.P.S. designed model and you will have the perfect combination for many hours of model flying.

IS YOUR engine going to help you alent code letterings are included between select your next model?—or are you selecting a design and then buying an engine to example: suit? Either way, this table of the World's model engines, the majority of which are in full scale production this year, will help you take your pick.

The old scheme of classifying engine

This is

utility against its capacity used to serve as a standard yardstick—until engine design

meant that no less than fourteen classes British power units are "Beam" mounted. 15 to 26 c.c. The classes are lettered from

THE WORLDS **ENGINES ARE** LISTED ON THE **FOLLOWING PAGES**



A to O and to find the grading for your particular engine, just follow the line against its name until you reach the, "power coding" column.

In each caption to AEROMODELLER Plans Service power driven designs, equiv-

BI-PLAY C,D,E,

30p

This is an exceptional example capable utility against its capacity used to serve as a standard yardstick—until engine design unfolded new techniques, new power levels. For example, there are some 1.5 c.c. diesels equal in usefulness to others of 2.5 capacity. Conversely there are 2.5 c.c. twice the conversely there are 2.5 c.c. twill be found that many diesels equal engines with "slogging" power at lower revs per minute, that equal much larger revs per minute, that equal much larger revs per minute, that equal much larger reproduces the converse of the conve of taking a wide range of power units: are used to segregate the vast range from Alteration is simple in every case when

Continued on page 10

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MODIFICATION RADIAL TO BEAM OR VICE VERSA

A SELECTION OF THE WORLD'S ENGINES

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*Definitions: R radial. B beam. FR front rotary. SP sideport. RD rear disc. RR rear reed. RDr rear drum. Dimensions with B mounting symbol are for distance in inches between bearers (crankcase clearance) for Beam mounting +Indicates that engine also appears in Radio Control version. which is slightly heavier.

Wen Mac Hotshot 949 Wen Mac Hustler 049 Wen Mac Hustler 049 Wen Mac Hustler 049 Wen Mac Rotomatic 049 Holland Hornet 051† Cox Tee Dee 051 Fox 07 R/C† Gilbert 77 Cox Medallion 094 Cox Tee Dee 09 Johnson Bulldog 094 OK Cub 074 Cox Tee Dee 09 Johnson Bulldog 094 Cox Tee Dee 09 Fox 10 Tree Dee 09 For 10 Tree Dee 09 Fox	Mecoy R.H. 29 Johnson 29R Veco 29R Series 1004 Veco 29R Series 1004 Johnson Sports Spect Aero 354 Aero 354 Aero 354 Johnson Stunt Sup OK Cub 35 Veco 35 Ser 100 & 35cf Fox 35 Ser 100 & 35cf K & B Torpedo 35 & 35cf K & B Stallion 35 Johnson Combat Spec. McCoy 40 R.H. 4 K & B Torpedo 45 Fox 40 B.B. 4 Ser 654 K & B Torpedo 45 Fox 40 B.B. 4 Fox 40 B.B. 4 Ser 654 Fox 40 B.B. 4 Ser 654 Fox 40 B.B. 4 Ser 654 Fox 594 Doolling M.H. 60 Ser 20 AUSTRALIAN Talpan 1.5 Glow Talpan 2.5 Glow Talpan 2.5 Glow Talpan 2.5 Glow Talpan 2.5 Glow Glo-Chief 39 Glo-Chief 39 Glo-Chief 39 Glo-Chief 35 Glow-Chief 45 WMD-08 Webra Piccolo
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beams are specified on the plan. First measure the distance from the rear of the propeller to the rear face of the "Radial" engine mount and indicate this on the plan with a vertical line on the side view. This will be the position of your new "Radial" bulkhead and the beams should be sawn off flush to allow a key to be made with the 1-in. plywood radial mount.

made with the 4-in. plywood radial mount.
Should the design be a profile type, for example P E T 499 S T O M P E R a bulkhead can be attached directly to the front of the fuselage, the existing beams deleted, and block balsa fillers used to streamline and support the engine mounting. If the design calls for radial mounting then one must first consider whether beams are at all possible. A tank or structure of some importance may prevent a full set of beam mounts being inserted a full set of beam mounts being inserted through the existing bulkhead. In such cases, use metal angle bearers, once a popular item in every model shop and

popular item in every model shop and nowadays a rather neglected feature.

Every A.P.S. design can be converted from beam to radial in this way, but designs that specifically call for one or other of Beam or Radial mounting are duly captioned, for example PET 453 Fokker D.R.I, which is "Radial" or U.488 Jumping Jiminy, which is "Beam." This does not necessarily restrict the design to that particular mounting, for modification is still possible with a minimum of ingenuity. possible with a minimum of ingenuity. Likewise, engines with rear disc (R.D.) induction, such as the E.D. 2.46 c.c. "Racer" call for additional clearance immediately behind the engine to allow access to the carburettor.

Propeller Selection

Against each engine there are three sizes of propeller. These are basic dimensions derived from practice in the field, contest flying, sports flying and designer's advice. Use the size given if you have any doubt on your own selection—and remember—large airframes (72 in. for 2.5 c.c.) require an extra inch in prop diameter, keeping advised pitch, and smaller airframes (48 in. for 2.5 c.c.) can be cut by as much as half an inch on diameter.

Gear the pitch of your prop against the rate of climb and engine r.p.m. (4 in. pitch for a fast climbing contest model and 12,000-13,000 r.p.m. engine) or step up the pitch for slower sports models (6 in. pitch for 7,000-9,000 r.p.m.). A good tip is to fit the prop back to front for first test flights when full thrust is not advisable. Above all: mount your engine firmly. Against each engine there are three sizes

Above all: mount your engine firmly, treat it with the respect it deserves and give it a fair chance—you can always rely on the A.P.S. design to make full use of the power it develops.

Starting a **Model Diesel Engine**

MOUNT THE ENGINE firmly and fit the propeller on the shaft by slipping it in position, turning the engine until the piston can be moved no further against compression, and tightening the prop nut with the propeller pointing at "twenty-to-two" as on a clock. Left handed people should treat this as "ten-to-four". Now swing the prop over in an anti-clockwise direction. The engine is dry, stiff and there is little "feel" about it. Fill the tank, open the needle valve by unscrewing it the required number of turns from fully closed, and choke the engine. This means placing the spare forefinger over the carclosed, and choke the engine. This means placing the spare forefinger over the carburettor, and rotating the prop one turn. Engines with the carb in front will indicate that fuel is entering the engine as you observe the flow through the tubing. Should there be a conglomeration of bubbles in the pipeline, then we must choke again to get the line full of fuel. Now try another swing at the prop. Don't be afraid of it, it certainly will not fire, as all you are doing is filling the crankcase with a mixture, and creating a fine mist of fuel throughout the moving parts. This little amount of lubrication will change the engine from a lifeless object to something with the urge to "go", and as you continue to swing the prop, and the comp. screw must be slackened and as you contniue to swing the prop, you'll find there is an active "plop" as compression drives the prop over.

Choke again, and repeat the swing at the prop only this time putting a real effort into it. Start by putting your forefinger against the topmost blade, about halfway along and push the prop over compression with a smart swing of both wrist and arm. At the same time take a firm grip on the compression screw at the cylinder head, and hold this set at the position indicated in the instructions. After a few sharp flicks of the prop, there should be some reaction in the form of a mild firing stroke—or if you are extraordinarily lucky, the engine may burst into full song straightaway.

If the engine refuses to show any inclination to work, look through the exhaust ports and see if the top of the piston is at all wet with fuel. If it is, then use the compression screw as though you have your hand on the pulse of the engine, treat it as you would a human, and raise the compression by screwing in the "vernier" as one maker calls the tommy bar or comp. screw. But do not be forceful for over-compression is dangerous, and is

choking has not been sufficient, or the needle valve setting is not open enough It is better to err on the rich or "open" side for first starts—providing you release the comp. screw when compression

engine is over-compressed to some degree, and the comp. screw must be slackened

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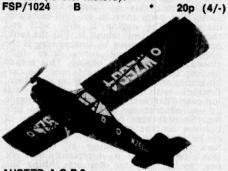
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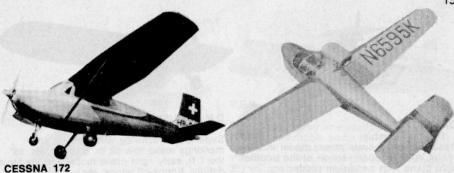


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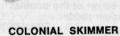
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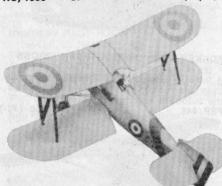
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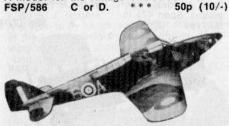
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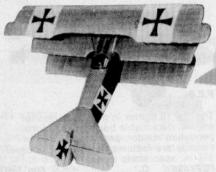
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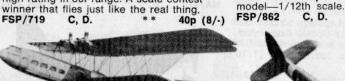
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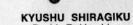


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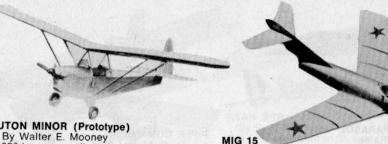
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C. D. 30p (6/-) FSP/731



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35 in, scale model of a famous W.W.I fighter for builders with a little experience. Features pendulum rudder and complete accuracy. 1/9th scale.

FSP/545 C, D. S.P.A.D. S-7CI SCOUT

By L. C. Bagley A perfect scale version of the attractive 1914-18 fighter. Span 38 in. 1/8th scale. FSP/373 D. E. 50p (10/-)





SPITFIRE LF XIV

By P. Whittaker Near scale version of the famous low altitude fighter with robust construction, knock-off wings, and engine off-set, cleverly incorporated in construction. Wing span 263 in. Also suitable single channel R/C. FSP/607 C, D. 30p (6/-)

WESTLAND LYSANDER

A completely redesigned and modernised version of an old favourite, and a most impressive model. Span 60 in. Not recommended for R/C. FSP/160 G. 50p (10/-)



V.A. WALRUS

By AEROMODELLER Staff 38 in. span perfect scale model of famous war-time amphibious pusher. Steel hull construction and detachable wings make it a FSR/P/211 tough design for over land or water flying. C. D. FSP/661

WESTLAND WIDGEON III

A complete revision of the popular rubber driven design by Eddie Riding for small motors. Span 361 in. 25p (5/-)





VULTEE VIGILANT

By J. Bridgwood Scale model of the U.S. Army "spotting" aircraft. Models built from this plan have placed at the Nationals. Span 52 in., for 1-1.5 c.c. engines.

MA/136 E, F.

WORKMASTER

By R. G. Moulton Beginner's semi-scale tough radio control model for simple single channel systems. Airframe is designed to give the greatest possible strength and still provide an easy to build model of light weight. Span 473 ins. for 1-1.5 c.c. engines. 35p (7/-) RC/821 D, E, F.



WACO YQC-6 By R. Meixell Superb one-ninth scale model of the 1936 Waco Custom Biplane. Model features padded seats, cloth upholstery, veneer trim, and scale structure. The most detailed F/F scale plans yet with all interior detail. For advanced builders only, 45 in. span. FSP/844 E, F. *** 75p (15/-)

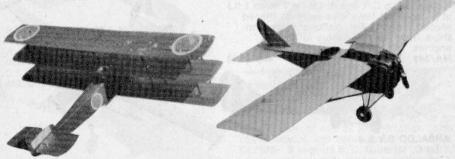


ZAUNKOENIG

By J. Greenland 39 in. version of the German experimental parasol lightplane, fully slatted, complete with instructions.

FSP/392 B, C, D 35p (7/-)

Round the Pole



MITSUBISHI TYPE 10 WRIGHT MARTIN M5

By M. F. Hawkins A two in one plan for round-the-pole scale models, of the Mitsubishi type 10 carrier borne fighter of $17\frac{1}{2}$ in. wingspan bomber, and torpedo attack triplane of the Japanese Navy and a 22 in. span model of the little known Wright Martin M-5 WW.I. monoplane which was produced for the U.S. Army. RTP/942



By P. Bullivant

Neal little scale model for round-the-pole flying on two electric motors. The model flies on up to 40 ft. lines. Plan gives full detail of motors installation. For 2 FT16D or 2 FT26D electric motors.

RTP/1086 20p (4/-)



AERO COMMANDER 680 SUPER

By J. D. McHard

A 53½ in. span model of America's famous high wing twin engined executive transport. Plan gives markings for Pres. Eisenhower's own aircraft. Planked fuselage structure, part sheeted wing. For two 1.5 c.c. to 2.5 c.c. engines, side mounted. Tricycle u/c.



By P. Wheldon A super scale C/L model (scale 1 in. to 1 ft.) of a Japanese Navy dive bomber. Placed second in the British National Championships. Span 39 in. Suitable for 2.5 c.c. engines.



ANSALDO S.V.A.4

By C. Milani

A magnificent model of the famous Italian World War 1 fighter by the foremost C/L scale model designer in the country. For experienced modellers only. Suitable for 6-11 c.c. motors. Span 45 in. drawn on two



SISKIN

By C. B. Hall A delightful scale model of the R.A.F.'s first all-metal fighter. Robust construction allows model to take many hard knocks. Simple to build and easy to fly, this model will give hours of pleasure. Span 22% in, for engines 1-1.5 c.c.

CL/742 D, E, or F.

Control Line Scale



AVRO LANCASTER

By H. J. Towner

This 52 in. span scale control line model of the famous Avro Lancaster is aimed at the ardent scale enthusiast. Very detailed plan giving colour and cockpit details. For .09 cu. in. (1.49 c.c.) CL/1081 4 engines F.



SHACKLETON MR3

By J. M. Bodey A 61 in, span multi engine model of the famous tricycle undercarriage version of the "Shack." Simplified structure. For any engine combination total of 5-6 c.c. A sure crowd pleaser and a good flier, even after one or two engines have cut out. CL/746 E. F. G.



BELL P.39 AIRACOBRA

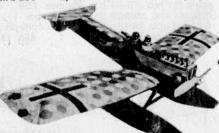
By B. Reggiano Scale control liner of this mid-engined W.W.2 fighter, has also placed high in Air Races. Span 27 in. for 2.5 c.c. engines. MA/251 G. 35p (7/-)



BOEING F4B-4

By W. I. Barrett C/L scale model of a colourful American biplane fighter of the '30s. Span 20 in. Suitable for 1-1.5 c.c. engines.

30p (6/-) MA/290 E. F.



BRANDENBURG SEA MONOPLANE

By A. Warren A really original scale model of the World War I German seaplane. Span 35 in. for 2.5 c.c. motors.

35p (7/-) MA/343



BREWSTER F2A-I BUFFALO

By P. Wheldon A super detailed scale control-line model of this famous World War II fighter, wingspan 37 in. Suitable for 3.5-5 c.c. engines. 35p (7/-)



BRISTOL BEAUFIGHTER X

By B. I. Fry A twin-engined C/L scale model for 2.5 c.c. engines. Span 39 in. 50p (10/-) CL/606 MA/275 2 x G.



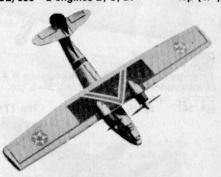
BUCKER JUNGMEISTER

By C. Hall Control line scale model of a famous aerobatic biplane. 31½ in. wingspan for 2.5-3.5 c.c. motors. 30p (6/-) G. H. CL/1020



By E. R. Atkins Colourful American executive twin for small engines. Full detail on this fine plan for easy construction of this 27 in. miniature. Also cabin interior, and colour pattern.

CL/638 2 engines B, C, D. ** 40p (8/-)



CONSOLIDATED CATALINA

By F. H. Buckland and A. D. Kingswood Famous wartime amphibian in any of three versions for water or land flying; any combination of engine totalling 4 c.c. or more. Wing span 63 in. G. 50p (10/-)



CURTISS HAWK P-6E

By D. Deeley Super-scale model of the famous American "pursuit ship." Fully aerobatic, or perfect as Famous England-Australia air racer to 1/18th a concours project. Span 36 in. CL/539



D.H. 89a DRAGON RAPIDE

By H. J. Towner Superbly detailed control-line model of this old favourite to a scale of 7 in. to 1 ft. Full colour and marking details shown on plan. 42 in. span. Uses two .8-1.5 c.c. engines. CL/981 2 x D, E, F. *** 75p (15/-)



D.H. CHIPMUNK

By F. Buckland An authentic C/L model of the famous R.A.F. training aircraft. Suitable for 2.5-5 c.c. engines. Span 40 in.



By Aeromodeller Staff

40 in. span, suitable for any pair of diesels totalling more than 4 c.c. All sheet covered and extremely robust.

CL/570 F, G or H. ** 50p (10/-) **DORNIER 215**

By C. Milani

Connoisseur's model. Most detailed of all A.P.S. scale plans, and a design that will satisfy the most exacting enthusiast. Cabin internal detail, motor throttle control, colouring data and relatively simple construction, for this all-sheet covered 44 in. twin. CL/627 2 engines G, H. *** 50p (10/-)



D.H. 88 COMET

By J. Last scale for two .75-1 c.c. engines. Full insignia and cockpit data on a Super detailed plan for this 291 in, span controliner. CL/694 2 engines C, D.



By E. Fearnley A scale C/L model of the famous 1917 war plane for 1.5-2 c.c. motors. Span 35 in. MA/174 F. G. 30p (6/-)



D.H. MOSQUITO

A beautifully accurate scale control-liner of



DOUGLAS A26 INVADER By D. Deeley

CL/520 2 engines F, G, H. * *

By J. Last and J. M. Bodey

A true-scale control-line model of the famous

workhorse of the air, for a pair of 1.5 c.c.

experienced multi-engined model flyers in

Span 471 in. A very popular "Twin" with

engines designed by two of the most

this country. Plan gives extensive and

exclusive colouring and marking detail.

1.49 c.c.

DAKOTA Mk. III

A.P.S. followers.

ERCOUPE

CL/385

By D. Deeley

H. J.

CL/765 2 engines

Accurately-detailed scale model of one of

for two engines. Speed 55 m.p.h. with two

the most attractive W.W.II twins, 46 in, span,

50p (10/-

50p (10/-

FAIREY GANNET

By J. M. Bodev A most accurate reproduction of the anti-submarine search aircraft, with drop-off "dolly" undercarriage and all balsa sheet covering, 38 in. span and capable of aerobatics with a good 3.5 c.c. diesel, it is also admirable for conversion to the U.S.A. Carrier Deck Landing type of contest. CL/631 G. H. 50p (10/-)



FAIREY GANNET

By B. Randle Highly detailed model for advanced builders only, contra rotating propellers driven by two engines through a split shaft. Single engine installation also shown. 40 in. span for one 6 c.c. and one 2.3 engine. MA/380 G and K.

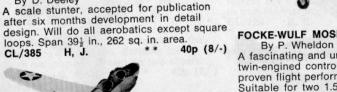


FOCKE-WULF MOSKITO

A fascinating and unusual subject for a twin-engined control-line model, with a proven flight performance. Span 28 in. Suitable for two 1.5 c.c. motors. MA/319 2 x F.

FAIRCHILD CORNELL P.T.19

By C. P. G. Wheldon A low wing design with a handy 29 in. wingspan for 1-1.5 c.c. engines. E, F. MA/400





FOKKER DIII

By F. Beatty Unusual World War I Biplane fighter to 301 in. span, and capable of all manoeuvres with a powerful 3.5 c.c. diesel. A most attractive and Flies at 60 m.p.h. colourful subject for scale contests.



FOKKER D VII

By R. Ward An accurate scale stunter by an expert in this branch of C/L flying. Span 29 in., fully stuntable, simple construction, 1/12th scale, CL/403 30p (6/-)



FOKKER TRIPLANE

By W. Musciano Simple, foolproof construction includes line-up strutting for wings. The Triplane has a character of its own. 231 in. span. 1/12th scale. CL/307 30p (6/-)



FOKKER FVIID 3M

By L. Ackroyd True scale 54 in. version of the famous "Southern Cross" with full internal detail. For single engine in nose and two free wheeling props on nacelles. Detachable wing panels, a scale contest winner. G. H. J.



FOKKER F.27 FRIENDSHIP

By M. Bodey An exact one-twenty-fourth scale model in Australian Mac Robertson Miller Airlines colour scheme, suitable for two 1-1.5 c.c. engines. Has sprung nose wheel, 471 in. span. CL/856 2 engines D, E, F. * * *



GRUMMAN F8F BEARCAT

By P. M. H. Lewis The last of the famous Grumman pistonengined fighters designed for shipboard use. This scale control-line model is suitable for 1.5 c.c. diesels. Span 25 in. MA/214 F, G. 30p (6/-)



HALIFAX VII

By M. Bodey Well detailed 54 in. (1/24th) scale controlline for 1, 1.5 or 2.5 c.c. assorted engines. 40p (8/-) CL/919 2 engines E, F, G. * * * 50p (10/-)



HAWKER FURY

By Clive Hall A 20 in. span model of the famous between wars fighter. Spritely performance with moderate stunts make it a most rewarding project for 1.5 c.c. engines. Extensive sheet areas make for easy and quick construction. E, F. 30p (6/-) CL/745



Those who prefer scale fidelity with their

model work will find this design, with its

snappy performance, well to their liking.

G, H.

2 x F.

Span 31 in.

Twin-engined scale control-line model of an attractive prototype. Highly detailed plan. Span 36 in. Suitable for two 1-1.5 c.c. motors.

MA/330

40p (8/-)



By W. Musciano Rugged scale stunt model, 28 in. span, of a favourite between-wars two-seater maid of



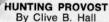
HAWKER HART By C. Hall

A detailed scale control-line model of the famous pre-war biplane. Suitable for 3.5-6 c.c. engines, drawn on two sheets. 40p (8/-) MA/374 G, H, J, K.

JUNKERS Ju 87 STUKA By AEROMODELLER Staff

Famous German dive bomber in true scale for free flight or controline. An outstanding design of attractive appearance, using .5 c.c. for free-flight and 2.5 c.c. in C/L version; 34 in. wingspan.

FSP/CL/675 B or G



171 in. wingspan near scale model of the R.A.F. piston-engined trainer with ultra-simple construction including all sheet wing and tail surfaces. Has an inclined engine mounting at 45 deg. and plan includes full information on a remote-controlled pylon to enable any model of this size to be piloted in true manner from outside the flying circle.





LOCKHEED P38 LIGHTNING

By A. Trobera 39 in. span twin for wide range of engines to perfect scale with simple structure and high speed performance.





LOCKHEED P2V-7 NEPTUNE

By J. M. Bodev An exciting and unusual 371 in. span twin engined scale control line model for two .8-1.5 c.c. engines. Tricycle u/c and all sheet covering.

CL/783 2 engines C, D, E. ** 50p (10/-)



40p (8/-) MACCHI-CASTOLDI MC-72

By E. Bizzozero A 253 in. scale model of the world's fastest piston engined float plane and world speed record holder in that class. For 2.5 c.c. engines, the plan incorporates details for a contra-rotating propeller assembly. CL/788



MESSERSCHMITT Me 109

By A. D. Kingswood World War II fighter of 24 in. span with inverted engine, all sheet covered surfaces, tough construction and ideal for sport flying. Original had 1.5 c.c. diesel. CL/709 E. F. 30p (6/-)



A twin engined low wing scale model of the German W.W.2 light fighter/bomber. All sheet covering, with engine throttle control



LOCKHEED SIRIUS

By W. Musciano Flying scale model of the famous American machine, this version can be fitted with either floats or wheel undercarriage. Span 32 in.

CL/328

20p (4/-)



BEAGLE-MILES 218

Scale twin engined beauty of the low wing executive plane for 2.5-5.0 c.c. engines. Detailed cockpit and building instruction sheet, span 60 in. on two 50 in. long sheets. CL/874 2 engines G, H, J. * * * * 75p (15/-)



This control-line model of an unusual prototype is powered by two 1.5 c.c. engines. In performance it is snappy enough for the expert yet easily handled by the beginner. Span 36 in.

MA/221 2 x F.



NAKAJIMA TENZAN (JILL)

By M. F. Hawkins A scale C/L model of a Japanese torpedo bomber for engines of 2.5-3.5 c.c. Span 36 in.

MA/268 G, H. 40p (8/-)

MESSERSCHMITT Me 262

By A. P. Lloyd Unusual profile-scale control line model of 201 in. span for 1-1.5 c.c. engines. Suitable for the sport flyer or beginner to control line. CL/1047 D, E, F. * 20p (4/-) CL/600



NORTH AMERICAN O.V .- IDA

By P. L. Spence A 1 in.—1 ft. of this C.O.I.N. aircraft in production for the U.S. Army and U.S. Air Force has two bellcranks for elevator control. A fine flier this 30 in. span model makes an ideal introduction to twin engined C/L modelling. Engine 1.5-2.5 c.c.



NORTHROP P61 BLACK WIDOW

By M. Bodey 3 in.-1 ft. scale model of America's first specially designed night fighter. This 491 in. span version by a well-known multi-engined enthusiast, Maurice Bodey, features robust construction, and is suitable for two 2.5-3.5 c.c. engines.

CL/1092 2 x G, H. 75p (15/-)



PERCIVAL MEW GULL

By H. C. Thomas Accurate scale Racer, capable of 75 m.p.h. with a plain bearing engine. Wing span 24% in.

25p (5/-)



Control line scale model of a famous Italian executive aircraft of most pleasing and out-of-the-rut shape, featuring Gull wing, nosewheel undercarriage, swept fin and twin pusher engines. Span 42 ins. for two 1-1.5 c.c. engines.

CL/824 two D, E, F. ** 60p (12/-)



SEAMEW By M. Reeves

Two designs to suit both Class I (.40 cu. in. engines) or Class II (.60 cu. in.) carrier deck competition rules. Plan includes full details of operating flaps, arrestor hook and engine throttle. Span 35 in. and 44 in.

CL/1061 J, K, L, M, N. ** 75p (15/-)



PIPER APACHE

By J. Stivala A 37 in. span model of the famous American executive transport aircraft, featuring planked wing and fuselage and tricycle u/c. Specially created for the scale enthusiast with smaller engines. Marking and colours for a British registered machine given on plan. Engines 1-1.5 c.c.



PIPER COMANCHE

By L. Ackroyd Winner of the scale event at the 13th New Zealand Championships, this superb 11 in. to 1 ft. control line replica for 2.5 to 3.5 c.c. motors, features retracting undercarriage, wing flaps and throttle control via J. Roberts Flight Control mechanism. 45 in. span.

CL/790 G. H. 50p (10/-)

PITTS LITTLE STINKER

By P. Donavour-Hickie Scale 251 in. span, control line model of the famous "Little Stinker" U.S.A. National Champion Aerobatic biplane, 3.5-5 c.c. engine.

MA/98 30p (6/-) SAAB SAFIR

By Hoh Fang Chuin A 37 in. wingspan C/L scale model of this Swedish light aircraft, for motors of around 2.5 c.c., featuring all balsa structure. 35p (7/-) CL/966 G. H. J.



SOPWITH 13 STRUTTER

By B. Sichi Super semi-scale stunter for big engines that will fly through all manoeuvres with ease. 48 in. span gives generous wing area, gun and marking details on plan. CL/651 H. J. K. 50p (10/-)

SOPWITH TRIPLANE Not illustrated. (See F.S.P. Section) By J. Pleydel Control-line version of the popular British "Tripe," this little machine is delightful to handle. Span 20 in. CL/361 D. E.



TIPSY JUNIOR

By H. G. Hundleby An ideal design for scale adaptation, this model has swept the board at many meetings. Available in three sizes to suit your engine. CL/321 28½ in. D, E. (radial) 25p (5/-) CL/322 34 in. G, H. (radial) 30p (6/-) CL/323 391 in. H. J. K. L. M (radial)

40p (8/-)



VOUGHT F4U-2 CORSAIR

By P. M. H. Lewis C/L scale model of the famous U.S. fighter designed for 1-1.5 c.c. engines. Span 26 in. MA/141 E, F. 30p (6/-)



WACKETT BOOMERANG

By C. A. Taylor Popular full-stunt model of a well-known war-time Australian aircraft. Span 38 in. G, H (Radial) ** CL/433 30p (6/-)



SPITEFUL

By J. R. Bishop

This appealing control-line scale model of a sleek descendant of the Spitfire has been designed for engines from 1.5-2.5 c.c. Span 27 in.

MA/183

YAK 4

By K. Taylor A twin-engine C/L model of the famous Russian attack aircraft. Suitable for 2.4-3.5 c.c. engines. Span 50 in., drawn on two

MA/346 2 engines G, H. * * * 50p (10/-) VICKERS VISCOUNT 701

By J. M. Bodey Queen of all the scale control-liners, this 1/18th scale, 62% in. span beauty is a great favourite. Colour livery for BEA, Capital and Air France. Relatively simple structure. For a combination of 7 c.c. in engines. Original used two 2.5, two 1.5 c.c. CL/701 F, G, H Multi * * * 50p (10/-)

Flying Scale Rubber



BLERIOT MONOPLANE

By J. M. Greenland
Military version of exceptional charm and
fine performance. Complete with "pilot" and
true to scale. Span 44 in.
FSR/275

50p (10/-)



BRISTOL BULLET

By E. J. Riding
A super detailed flying model by one of
Great Britain's foremost authorities. Span
37 in. With 1 c.c. power conversion.
FSR/226 ** 30p (6/-)



BRISTOL F2B

By J. L. Roberts
The machine which contributed so much to Allied air supremacy in W.W.I. A fine replica.
Span 26½ in. 1/18th scale.
FSR/111

** 25p (5/-)



D.H. 80A PUSS MOTH

By J. M. Greenland
An accurate replica with a scale area tailplane. Excellent performance. Span 30 in.
FSR/256

**
20p (4/-)



D.H. TIGER MOTH

By C. R. Moore
Build a model of this famous training
machine. The model is capable of high
performance, and a picture in flight. Span
44 in. This is the most popular rubber driven
scale model in our range and will always be
the classic of its class.
FSR/197

**
40p (8/-)



D.H. MOTH MINOR

By G. W. Day
A handy size low-wing model, well suited
for the beginner. Span 35 in.
FSR/168

**
20p (4/-)



DORNIER 27

By D. Garrett
A 27 in. span rubber powered scale model of a modern German lightplane for the painstaking enthusiast. Plans include modifications to take .3—.75 c.c. engines.

FSR/796 B. ** 30p (6/-)



FAIRCHILD ARGUS

By E. J. Riding
Authentic appearance makes this a winner.
Span 37 in.
FSR/272 ** 25p (5/-)



FOCKE WULF 190

By K. A. Hodgson
One of our most popular scale designs, and
with structural modifications capable of
being converted to C/L. Span 36 in.
FSR/129 25p (5/-)



LOCKHEED LIGHTNING

Half-inch to 1 foot version of the famous twin fuselage fighter. Span 26 in. FSR/158 ** 20p (4/-)

Another larger version is also available. Span 42 in. FSR/159 ** 30p (6/-)



FOKKER D.VII

By D. R. Hughes
Fine flying version of the famous World War'l
machine. Simple construction and easy
trimming. Span 21 in.



MILES M.48

By H. J. Pridmore
This fine looking low-wing is a good
free-flight performer, and is also convertible
to control-line. Span 36½ in.





HANDLEY PAGE HERALD

By R. Malmstrom
Rubber powered twin motor semi scale
model of simple construction using
commercial propellers. 25 in. span.
FSR/1002 * 20p (4/-)



N.A. NAVION

By H. J. Pridmore
A fine flying example of a well-known
American light plane. Scale 1 inch to 1 foot.
Span 33½ in.
FSR/264

25p (5/-)

HEINKEL 51

By G. R. Woollett
Most attractive model of an early W.W.II
German fighter. 30 in. span and extremely
elegant.
FSR/141

*** 30p (6/-)



HAVARD II

FSR/139

By H. J. Towner A popular model from the Towner stablea low-wing trainer. Span 45 in. Can be used as a basis for a control-line model with sheet covering



35p (7/-)

By S. L. Spittle Favourite old-timer in flying scale form, this model is a fine performer and very stable. Span 28 in.



PIPER PAWNEE

By R. Malmstrom A 241 in. span novices basic rubber scale model. Stage by stage construction with illustrations. MA/348

20p (4/-)

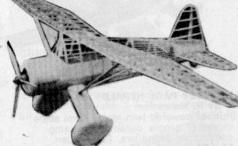
TAYLORCRAFT AUSTER A sure flyer, with high performance capabilities. Construction closely follows full-size machine. Span 36 in.

25p (5/-)



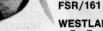
POTEZ 75

By Vic Dubery All balsa sheet model of the French reconnaissance pusher, 21 in. span and though designed for rubber power, could be modified for under .5 c.c. diesels. 25p (5/-) FSP/581



WESTLAND LYSANDER

By H. Boys Many hundreds of this design have been built and successfully flown. The design lends itself admirably to flying scale work. Span 50 in. 45p (9/-)



WESTLAND WIDGEON III

By E. J. Riding A first-class flying type with extreme stability. Ideal for the beginner at scale work. Span 361 in. FSR/211



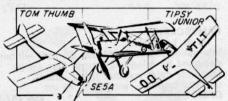
Simple Plan Sets



TWOSOME

A pair of free-flight models designed for the E.D. Baby diesel or an engine of up to .5 c.c. Fokker D.VIII is a 22 in. scale version of famous W.W.1. Fighter with unique detachable wings, sheet construction fuselage. Mimi is only 16 in. span, extremely and elevators and all the latest control-line simple to build with fool-proof stage-by-stage features. Straightforward free-flying cabin constructional illustrations.

15p (3/-) U/655 B, C.



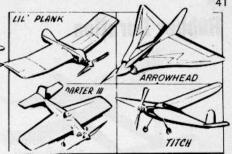
TRIO

Three designs for the popular .15 c.c. Bambi diesel. SE.5a and Tipsy Junior are scale models of famous W.W.1. Fighter and Belgian lightplane designs, Tom Thumb, a specially created sports cabin type model, 22 in. span. These fine models can also be flown by other engines of up to .32 c.c. including the Kalper and American K & B Infant. Thoroughly recommended to all owners of these miniature engines.

U/656 A only 15p (3/-)



MINI-JE



QUARTET

for .5 c.c.

includes the delta controliner Arrowhead and stunter Darter which has coupled flaps duration design Titch and novel flying wing the Lil Plank, make up a perfect quartet to suit any small engine.

U/595 B. C. * 15p (3/-) HAWKER TEMPEST GNAT

FOURSOME

for 1 c.c. Control-line

A complete course in control-line for beginners, Scatterbrain takes any .8 c.c.-1.5 c.c. engine as a simple trainer, then one can progress to the novel T-Tray stunter, or Gnat Team Racer for the 1A class or to the scale Hawker Tempest for either team race 15p (3/-)

or sport flying. U/596 C, D. THREESOME

Three attractive rubber-driven models including two scale types of the Piper Pacer and Max Holste MH.152, plus Rigid Midget, a novel racy freelance design. All about 21 in. span, these designs are inexpensive to build and cater for the commerciallyproduced plastic propellers. Recommended for indoor R.T.P. Speed and Scale Contests. 15p (3/-) JETEX QUADS

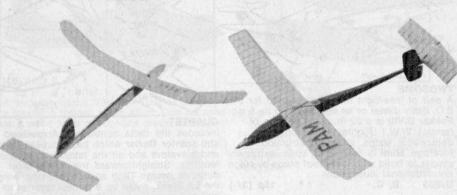
A duration design for the 50 unit, the Ukkie is a Dutch design which comes with a profile plan for the Swedish SAAB J.29 for Atom 35. the French SIPA Minijet for a 100, or the famous Folland Midge for either the 50B or 100 units. Four really first-class jetex models, with the SAAB specially advised for the beginner.

U/597 15p (3/-)



Rubber Duration

COUPE D'HIVER



BARON KNIGHT

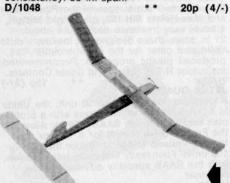
By D. White High performance 39 in. span. Coupe d'Hiver contest model with diamond section slab sided fuselage. D/894

20p (4/-)



DEUZIO

By C. Menget Top French Coupe d'Hiver class model, renowned for its performance and consistency. 36 in. span.



PAMYSCAPHE

By A. Landeau International Coupe d'Hiver Contest winner, designed by a leading French flier. Large areas for calm weather flying. Sheet covered fuselage, wing span 43 ins. D/880 25p (5/-)

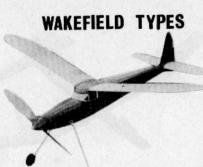


NIKOLINA

By O. Ehmann A 331 in. span Coupe d'Hiver, slab sided fuselage, tapered tip wing. Nose block, propeller and instructions on plan. Winner of the 1966 International. D/873 20p (4/-)

GARTER KNIGHT

By D. Morley Introduction to the Popular 'Coupe D'Hiver' continental rubber driven class and provides a fine starting point as a "first" rubberpowered model. A sound introduction to the contest type model and contest practices. Span 39 ins. with only 10 grams of rubber motor. D/809 20p (4/-)



ARISTOCRAT

By E. Stoffel High wing, semi-streamlined cabin Wakefield size model with exceptional good ooks and performance. Span 433 in. 1/311 30p (6/-)



In the British team at the 1959 World Champs, this Wakefield is an outstanding design. Features hinged fuselage, the rear section tips up to form a D/T and whole model breaks down into six pieces for easy transport in a box 7 in. x 8 in. x 27 in.complete with reserve model! Span 50 in. Winner of many rally and gala day events. D/755 30p (6/-)

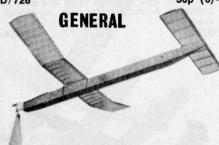


O.HIGH.O

By G. Reich and Joe Elgin Two U.S.A. experts of the renowned Cleveland Model Club designed this Wakefield as a high performance model for the novice. Extra plan detail for difficult parts, tough structure, 44 in. span. 30p (6/-) D/690 D/726



By Radoslav Cizek 51 in. Wakefield of attractive lines and with a great reputation for high performance. Suited to current 40 gramme rules, has been in the Czechoslovakian team many times. 40p (8/-)



CLOUDMITE

By C. West An appealing little lightweight rubber powered contest trainer. A dethermaliser is recommended. D/1075 20p (4/-)



DELINQUENT

By J. O'Donnell British Champion's simple 36 in. "open" rubber duration design. D/923 30p (6/-)

Rubber Duration



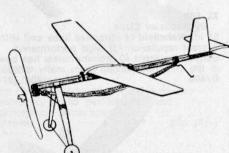
JEEP By C. A. Shaw

A good general purpose model with consistent performance. Span 28 in. 20p (4/-) D/152



J.B.3 By J. Bessemer

An extremely stable vintage model, well suited for the novice. Large tip dihedral prevents many initial troubles in trimming. Span 36 in. D/149 25p (5/-)



KOMAR

By S. Zurad An elementary, stick fuselage type rubber model, featuring some novel construction methods. 261 in. wingspan.

D/934

20p (4/-)

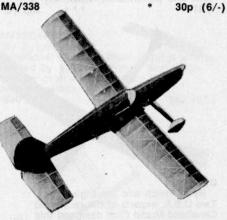
LITTLE MAVIS

By J. Pool The perfect junior rubber model, slab sided construction, propeller and nose block detail. Flies off the board. Span 281 in. D/890 20p (4/-)



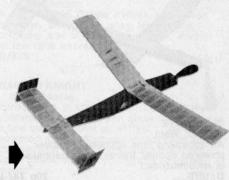
NORTH STAR

By R. J. North A simple construction 52 in. span contest rubber model, ideal for the novice, has nose block details.



RED ADMIRAL

By R. S. Brewer Neat 32 in. low-wing design for sport flying with sheet type fuselage sides and easy assembly. A fine flyer for club one-model events. D/718 20p (4/-)



SKYRANGER

By B. Cracknell Pert little 30 in. rubber model capable of extremely good performance. Simple and inexpensive to build and fly, pleasing appearance, semi-scale.

D/541 25p (5/-)



SPINNER

By H. Ellwood Simple 24 in. span rubber driven model designed for the beginner-capable of being ·flown in a small space and in windy



SURE FLYER

By K. Laumer A 30 in. span rubber driven model with especially simple construction to set the beginner on the way to a successful modelling career. Sure Flyers will teach the basic techniques and provide a great deal of fun.

D/800 30p (6/-)



TUTOR

By C. West Beginner's rubber duration model of unusual low wing design. 32 in. wingspan. 20p (4/-) D/954

MINI TUTOR

By C. West Very simple rubber powered sports flyer, designed as a really quick-to-build model. 25 in. span.

D/988 20p (4/-)

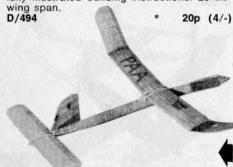
TRIP STICK

By L. Barr 39 inch span high performance Open Rubber class model for local field flying or major contests. Simple construction make this design quite suitable for the novice, and high performance will reward the effort put into building.

D/818 35p (7/+)

THE NEW A/M CABIN DURATION

By Bill Dean Revival of one of our most popular little rubber-driven models in a new and up-to-date form. A truly perfect little flyer, and very pretty to watch in flight. Plans contain fully illustrated building instructions. 20 in.



Rubber Duration



UPBURY

By G. F. Elsegood Two models in one, ideal for the novice, will introduce him to both rubber and glider flying. Span 36 in. two plans for the price of one. Simple slab sided construction. MA/392 30p (6/-)

URCHIN

By E. Black A successful culmination of a long line of open class rubber models. Capable of a maximum time without thermal aid, and can manage 4½ mins. Span 40 in. Has many contest wins to its credit in the hands of its Scottish designer. 30p (6/-)

Waterplanes



AQUARIUS

By W. B. Heginbotham An angular but attractive design. Robust and well proved by hours of over-water flying. Span 511 in. WP/423 30p (6/-)



GULL

By K. Kuosma

streamlined engine pod and swept back tailplane, give this model a very sleek look. Radio conversion suggestions on the plan. 50p (10/-)_WR/685 WP/850 G.



LITTLE AUK By J. Trinder

30 in, amphibious rubber powered design, A very attractive gull-winged 63in. flying boat, can be fitted with floats or normal u/c for excellent contest performance in club events. Free-wheeling prop. Sturdy yet simple construction.

30p (6/-)

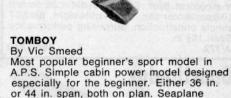


MIRANDA

By W. P. Holland Amphibious model with a detachable plug-in undercarriage. Large cabin and streamlined engine nacelle make this a most attractive design. Wing span 49 in.



A semi-scale biplane, featuring long hull and removable wings, 493 in, wing span, Very stable in the air and on the water. WP/849 50p (10/-)



version also given. PET/398 C. D. E.

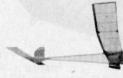
35p (7/-)

Jetex Powered Models



ARROW 100

By Ian Dowsett Contest winner by well-known "Jetex" designer, with one flight of 18 min. O.O.S. to its credit. Quick to build and easy to trim. Span 24 in. J/511 25p (5/-)



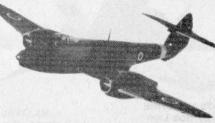
FIZZLEQUICK

By I. V. Dowsett Plan includes full details for two versions, using either Jetex 50 or 100 unit. This outright contest model has terrific rate of climb and has won several contests. J/599 25p (5/-)



D.H. 108 (SWALLOW)

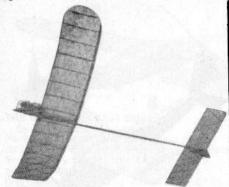
By D. P. Golding Scale model for Jetex 100 power by a scale expert. Capable of most realistic performance, it closely resembles this full-size high-speed jet plane in every detail and in the air. J/479 25p (5/-) J/293



METEOR IV

Twin engined scale model for two "Jetex 100" units-most realistic in flight. Span 211 in. 20p (4/-)

30p (6/-)



SNOWFLAKE

Unorthodox

By R. Armstrong Unique and inexpensive Jetex 50 design for the contest flyer. Prototype did 1:35 from 10 sec. motor run. Ultra lightweight, ultra simple construction. Surprising performance. Span 153 in. J/772



Unorthodox

CONCORD

fun.

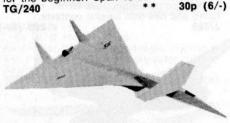
U/1038

By K. J. Downton

B.

A.V. 10

By Guy Borge This machine, designed by a French expert, is of especially easy construction, and ideal for the beginner. Span 40 in.



B-70 VALKYRIE

By Bob Linn Ultra modern "low budget" semi-scale delta of 23 in. span for .8 c.c. motors which will run in a clockwise direction if a pusher propeller is unobtainable. A thriller to fly. All sheet construction, very easy to build. * 40p (8/-) TG/241 U/784 C, D.

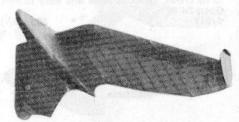


By Laurie Ellis Twin rotor autogiro completely eliminates torque troubles and enables the model to be trimmed for flight direction. Flies well in all weathers, particularly in strong wind. U/644 C, D.

Semi-scale, all sheet construction, 12 in. span free-flight sportster powered by a Cox Pee

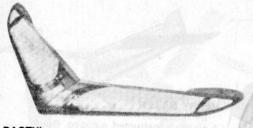
15p (3/-)

Wee engine. Great flier, provides hours of



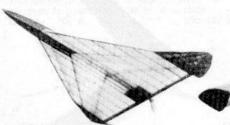
CROWFLY

By S. R. Crow A recognised English expert is responsible for this unique and extremely stable model. Excellent duration ensured. Span 32 in. 30p (6/-)



DACTYL

By C. M. Holden True flying wing glider without centre pod fuselage, and elevon controlled. Span 60 in. TG/326 30p (6/-)



DELTA I

By J. N. Lancaster A real delta model with all the full-size delta characteristics. Perfectly stable at all speeds and remarkably hard to stall. 35 in. span. U/490 C, Ď. 40p (8/-)



FLOATING KIDNEY

TG/251

HOPPITY

By W. I. Barrett A novel C/L autogiro for 2.5cc motors, with semi-scale appearance and very stable to fly. 24 in. diameter rotor U/947 40p (8/-)

By F. G. Birden An out-of-the-rut all-wing design resembling

the mythical "flying saucer." Span 151 in.



FLAP HAPPY

By P. Schoenky This most unusual model is one of the few really successful ornithopters yet produced. Holder of American records. Span 41 in. D/333 30p (6/-)



JAVELAN

By Laurie Ellis A 34 in. delta with a tailplane, not unlike the Gloster fighter, with same appearance and flying characteristics. For a new thrill in sport flying, this model is the tops. U/579 40p (8/-)

40p (8/-)





SKEETER By D. Cooper and R. Coles The ideal introduction to autogiro flying. The sixteenth in a line of experiments, success is guaranteed. 32 in. dia. rotor. U/532 D. E. 25p (5/-)



SYCAMORE AND HOVERFLY By F. G. Boreham

Three-in-one plans for easily made Helicopters by Britain's leading expert. 21 in. A 28 in. span torque reaction helicopter with diameter for .5 c.c. and 31 in. dia. for .75 c.c. plus a scale Bristol Sycamore profile fuselage. U/713

25p (5/-) U/860

TWIDDLER By E. R. E. Morse

Very successful helicopter powered by two Jetex 50B units, only 15 in. diameter and with very simple sheet construction. Will soar to great height and safely descend under auto-rotation. J/702 15p (3/-)



XERNES By L. C. Harris An all-wing sailplane of futuristic lines with excellent flying characteristics. Span 84 in.

TG/394 NOT ILLUSTRATED

BUZZERCOPTER By F. G. Boreham free-wheeling rotor for descent. Elementary construction for a "flying machine" that fascinates. C. D. 25p (5/-)



A TRAIN By G. French

High performance contest model, by one of the country's leading exponents. 52 in. span, using .8 c.c. (.049 cu. in.) engines.

PET/994 C, D.



CELERITAS By T. Strassberger 29 in. span, this model is designed by a top Yugoslavian modeller. Suitable for a beginner's first contest machine 40p (8/-) PET/527



CLIMAX

By P. M. Arnould and D. J. T. Miller Open power model for a wide variety of engines. Very easy to build and fly. 401 in. wingspan, this model is an ideal first contest PET/973

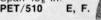
E. F. G. H. **



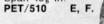
By B. Wheeler One time World Championships winner. Side-mounted motor and 52% tail-plane. Wings may be made in two halves, when model will pack in 8 x 8 x 33 inches box.















CREEP

By B. Eggleston High performance contest winning design for F.A.I. or open events, especially suitable for vertical take-off. Wing span 50 in. PET/609





A 62 in. span International contest winning. eliptical tipped F.A.I. power model. Engine mounted in cast alloy pan.

PET/881 G.





DYNAMO

By A. Young Contest winning 1/2 free flight model of 45 in. wingspan and simple as can be for ease of construction and flying. Suits all .8 c.c. (.049 cu. in.) motors. Placings in a whole string of contests prove this to be a tip-top competition design.

30p (6/-) PET/812 C, D.



By D. Posner A contest power model by an expert, with winning capabilities using a hot 049 (.8 c.c.) motor.

PET/1012

(35p 7/-)



By Tom Smith One of Britain's fastest climbing open power models, a record holder and winner of Shelley, Hamley and Frog Senior Trophies. 66 in. span polyhedral wing. For the experienced power flier only. 3.5-5 c.c. PET/781 H, J.

50p (10/-)

By George Fuller Slab-sided contest power model with prizewinning performance. Very easy and inexpensive to build. Span 48 in. PET/499 E, F (Beam) *

STOMPER

30p (6/-)



PEE WEE CREEP

By Pete Muller Diminutive 181 in. span "contest" type model for the U.S. Pee Wee .020 engine. Climbs like a rocket!

PET/732 A. B.

VINDALOO

By M. Dilly A really hot 1A contest power model with a rocket-like climb. 45 in. span, excellent contest record.

PET/854

C. D.

30p (6/-)



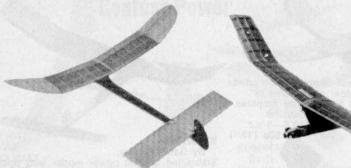
PULTERI

By O. Niemi F.A.I. Power design from Finland, Simple to build and easy to trim. Flat bottomed wing section for fast climbing. Many contest successes in Finland and the Nordic Countries, including 2nd Nordic Countries Championships, 1960. Span 60 in., for 2.5 c.c. Top F.A.I. power design of 64 in. span engines in F.A.I., or 3.5 c.c. if flown in open contests.

PET/764

VITAL

By S. Savini featuring a variable incidence tallplane and auto rudder. For 2.5 c.c. engines, 40p (8/-) PET/1041



Y-BAR

By A. J. Brooks Profile fuselage contest winning pylon design with large tailplane and rear mounted fin, for F.A.I. or Open events. Span 40 in.

PET/590 E, F.

F. * 30p (6/-)

ZEUS

By K. Coman
Contest winning ½A power model, simple
structure, and a terrific climb. Very easy to
trim, an ideal first power model. 40 in. span.
PET/841 C, D. ** 35p (7/-)

Sport Power



AIR TRAILS SPORTSTER

By B. E. Shereshaw
A true vintage sports model of the preWW2 era, the plan gives details for installing
spark ignition engines; although modern
engines can of course be used. 40 in.
wingspan.
PET/961 G * 50p (10/-)



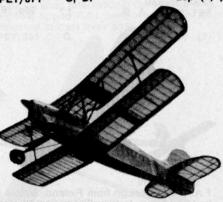
BLACK MAGIC

By F. Hempsall
Elegance of appearance and performance
make this one of the most popular power
models in our range. Span 60 in.
PET/268 F, G, H. ** 50p (10/-)



BLITZ

By B. Osborne
A semi-scale all sheet B.A.C. Lightning
powered by a .8 c.c. tractor engine that's
hard to see in flight.
PET/871 C, D. * 20p (4/-)



BROOK'S BIPLANE

By B. Brooks
No bipe was ever more famous than this one
the prototypes of which have flown for
hundreds of airborne hours. Amazingly
stable and realistic, ideal for radio
conversion, span 66 in.
PET/492 G, H. ** 50p (10/-)



CHERUB

By Vic Smeed
An aptly named "baby." All sheet fuselage
and simple wing construction make it an
ideal model for any beginner. Span 30 in.
PET/485 B, C. * 30p (6/-)



CHLOE

By R. Darr Struts give a semi-scale appearance to this easy-to-build streamlined 36 in. sports model. Specially created to pack away into a small space.

PET/678 B, C. ** 30p (6/-)



CRICKET

By N. Shennan
A 32in. wingspan cabin sport model of tough
construction and unusual outline. Suitable
for lightweight radio. For .8 c.c. motors.
PET/1007 C ** 20p (4/-)



DEBUTANTE

By Vic Smeed
As the name implies, a pretty model with
high performance and unblemished
character. Specially printed plans include
full photo detail and instructions for this
40 in. cabin sports job.

PET/493 C, D, E. * 25p (5/-)

DOOHICKY

By John Swift
Diminutive biplane with a sparkling
performance. Only 25 in. span, it can be
dismantled and carried about in a small

PET/565 B or C. ** 30p (6/-)

55



ENVOY

By C. A. Shaw
Cabin tricycle model of pretty appearance
and good performance. Extremely safe to
fly. Span 40 in.

PET/461 C, D. ** 25p (5/-)

ETHEREAL LADY

By Vic Smeed
Cabin contest power model, elliptical fuselage, parallel chord wings with elliptical tips. Scale appearance. Span 47 in.
PET/291 E, F. ** 30p (6/-)



FISHFACE

By E. Clutton
Scale to the last gill, this 20-inch span
novelty is made for Sunday sports flying.

U/851
B. * 20p (4/-)

Sport Power



FRANKENSTEIN

GURU

span.

PET 1101

HAWK

KWOD

By A. J. Dorrell

PET/1032 C, D

By E. Clutton

PET/787 C.

construction.

By W. I. Barret

By M. W. Thompson Easily constructed slabsider power model, designed for precision flying. Span 50 in. 30p (6/-) D, E. PET/346

A free flight sports model of unique design.

A good flier with novel construction features. For .75-1.5 c.c. (.049-.09 cu. ins.) motors. 40in.

A semi-scale 28 in. span profile free-flight design for .049 cu. in. motors. All sheet

Novelty is the key to this quadraplane design,

though not without purpose, for it can be flown within the boundaries of a small field.

Span 20 ins. for .5 -. 8 c.c. engines.



By R. Malmstrom 26 in. Shoulder wing .010 simple free flight

power for small field flying. PET/ 913 B 20p (4/-)



ISABEL

40p (8/-)

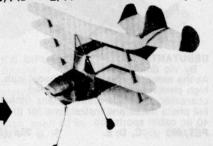
40p (8/-)

By C. Read Easy little free-flight model of attractive appearance. Nice slim fuselage and tapered wing gives "Isabel" an air of individuality. Span 39" for .5-8 c.c. motors (0.49). PET/1070 B. C.



JAVAHAWK

By P. E. Norman Unique ducted fan design by Britain's recognised expert in this field. Ply formed fuselage gives very strong yet light structure. Full details for building model and fan are given on plan. This model climbs fast! For 1.5 c.c. engines. Span 271 in. 40p (8/-) U/740 E. F.



MADCAP

By Vic Smeed Beginner's power model with alternative fuselages, profile contest or cabin sports. Very tough and virtually fool and crashproof. Span 451 in.



MAM'SELLE

By Vic Smeed Most attractive cabin sport plane with elliptical section fuselage and neat nose cowling. A fine flyer in all conditions. Wing span 371 in.

30p (6/-) B. C. D. PET/612



MANDY

By Mike Green The novice's ideal first power model. Elementary construction combined with sleek lines add up to a perfect local park flying model. Wingspan 45 in. Engines 1-



MINI CLOWN

By T. Stothers Sports F/F biplane for small radial mounted engines. Features realistic lines from simple all sheet construction.

20p (4/-) PET/974 B. C.



MOSS TROOPER A 35 in. wingspan semi-scale sport power model featuring low wing and large cabin.



MPUNKU

By A. W. Bennie An all sheet sport biplane of 33in, wingspan which is suitable for free flight and single channel radio control. For .8 c.c. motors. 20p (4/-)

A Concours d'Elegance winner with excellent flying characteristics. Two huge plans measuring 132 in. x 381 in. and special instructions for this 8 ft. beauty. An ideal subject for the connoisseur and "big stuff" radio-control enthusiasts. J, K, L, M. PET/504

PET/1001 C MERCURY IV By Mick Smith



enjoyment.

25p (5/-) _PET/813

30p (6/-)

fuselage shape.

PET/835

POPSIE By Vic Smeed Rugged sports model, 381 in. span, capable RAMBLER of accommodating lightweight radio-control By R. Howe and absorbing a tremendous amount of Novel free flight sport model of semi scale design and modernistic lines. 35 in. punishment. wingspan for .020 cu. in. (.3 c.c. motors). 50p (10/-) PET/460 20p (4/-) PET/1011 **ROARING 20** By B. A. Striegler Nifty sport biplane of very attractive and POPPET practical lines and high degree of stability. By C. Read to-build and a sure flyer. PET/695 B, C. 20p (4/-) C. D. MA/334

A neat little easy-to-build sportster of rugged construction. Suitable for 0.5-0.75 c.c. engines. Span 37 in.

281 in. wingspan, sheet fuselage sides, easy-30p (6/-)



PUSHY-CAT

By Vic Smeed Neat little pusher model, of straightforward construction with all-sheet fuselage. Winner of 1953 Bowden Trophy. Stable flight, excellent take-offs and landings, 44 in. span. * * 50p (10/-) PET/528 C, D.

SHARP SCOOTER By K. Laumer

A slick 29 in. span sport free flight for .5-.8 c.c. engines, the Sharp Scooter has eye appeal from every angle. Simplest possible structure enables the modeller to put this model in the air with a minimum of delay. * 30p (6/-) PET/804 B, C.



SKYTALE

By R. A. Chivrall Large near-scale model for sport or radio control conversion. Voluminous cabin permits use of bulky R/C equipment and well spaced structure makes it an easy model to build. Two plan sheets give full detail for TOMBOY this 78in. beauty.





By Vic Smeed Most popular beginner's sport model in A.P.S. Simple cabin power model designed especially for the beginner. Either 36 in. or 44 in. span, both on plan. Seaplane version also given. 35p (7/-) PET/398 C, D, E.



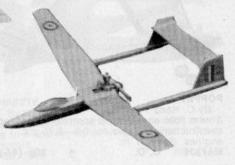
SNOW WHITE

By M. Bridge Attractive 40 in. Sport flyer suitable for beginners. All-sheet fuselage and simple tapered wing constructions with constant thickness ribs. PET/585



TERRIER

By Brian Lewis Quick building, strength and attractive lines ensure popularity for this 33 in. span design. Excellent for the newcomer to power flying. 30p (6/-) B or C PET/553



VAMPIE

By Lt.-Cmdr. T. E. Naughten All sheet balsa and practically unbreakable. Pusher engine saves props., one-piece construction is incredibly strong. 36 in. span, a fast and thrilling flyer. 30p (6/-) PET/619 C. D.



UPBURYS CONVERTIBLE

By G. Elsegood Versatile sports free flight model which can be flown as a glider, power or radio controlled model, 48 in. span. For .75 c.c. motors.

20p (4/-) PET/G/1010



VENTURE

By M. Campbell Semi-scale, open cockpit biplane for inverted motors. Span 42 in. Great for precision flying.

PET/391 50p (10/-)



WEE SNIFTER

By J. D. McHard A snappy free-flight sportster which the novice will find easy to build and fly. An alltime best. Span 30 in. Suitable for .5-.8 c.c engines.

MA/340 B, C. 30p (6/-)



WHIPPET

By J. Wylie A really smart little biplane for round-the-pole or fair weather flying. Makes the most of the current range of small motors. Span 171 in. Suitable for engines of .15-.32 c.c. MA/309 B. C.



WINDBAG By C. Read

Airship type sports model, span 9 in. length 31 in., simple construction for .75 c.c. tractor engine on nose. MA/386 20p (4/-)



AIGLET

By Martin Bridge Refined high performance model to the popular class of small glider. Plan includes photo of finished model and complete instructions. Span 451 in. U.S. Nationals winner and holder of several duration records. G/643

By A. Brocklehurst A 54in. span glider to A1 specifications. The Model incorporates a fibre glass rod for the fuselage. A fine companion to No. 3 by the same designer. G/1097 20p (4/-)



By K. Coman This is a simple to build 451 in. span A/1 glider, with a real contest pedigree, including two first places at the R.A.F. championships. G/855 30p (6/-)



DOWNBEAT

An easy to construct A/1 specification glider designed to ensure fool proof construction, 44 in. span.

20p (4/-)

G/867

G/148 50p (10/-) LA MOUETTE

Span 50 in.

FLYING ENTERPRISE

G/786

By C. Campbell A/1 class glider of 521 in. span by a Scottish enthusiast. Simple structure, with even chord "W" brace wing rib pattern wing. Makes an ideal "second" glider in one's aero-modelling career.

40p (8/-)

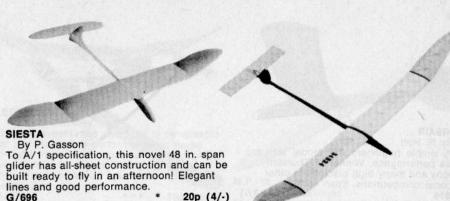
By R. Cizek Czech expert, Rad Cizek is renowned for his clever, high performance, contest models and this one is no exception. The A/1 class, which it meets admirably (Span 47 in.) is likely to become widely adopted. Already included in U.S.A. and European contests programmes, it will be a perfect event for

Probably the most popular glider in our range,

many hundreds of this model have been built

and successfully flown. First-class performance.

La Mouette. G/774 20p (4/-)



SPANISH FLEA

20p (4/-)

By C. Morris 51in. span A/1 glider of a very high performance. Plan details both a fibre-glass (fishing rod) fuselage and a built up balsa alternative.

G/1058

STROLLING BONE

By D. H. White A simple A/1 glider with two piece wings of 50 in. span, designed by an expert for beginners but still capable of contest performance. 20p (4/) G/933

SYNCOPATOR

By P. Newell A/1 Specification glider with elliptical wings and geodetic structure. A regular contest winner, span 55 in.

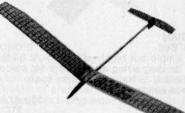
G/896 20p (4/-)

NOT ILLUSTRATED

TELSTAR

By M. Pressnell An easy to build A/1 glider of 49in, wingspan with an excellent performance. G/1006 20p (4/-)

GLIDERS, A/2



ACCIPITER By A. Crisp

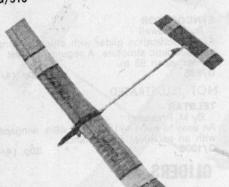
Developed over a long period of time, this top performing A/2 retains simple lines and straightforward construction. 73 in. span.

AURIKEL

By H. Hansen An A/2 World Championship Winner with simple construction and high performance from Denmark. Span 65 in. MA/171

CORSAIR

By R. Holt
Very simple beginners A/2 model with top
class performance. Winner of Thurston
Trophy and many high placings in other
national competitions. Span 48 in.
G/516
* 35p (7/-)



FLORIDIAN

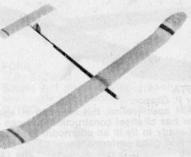
By B. Bell A very simple but highly efficient A/2 glider, among its long string of wins is a 1st place at the 1962 U.S. Nationals, 66 in. span. Two-piece wings.



G.B.IX

By G. Brewin
Leading British A/2 design in 1957 U.K.
Team Trials has sheet diamond fuselage,
drooped T.E. section and tip fins for shallow
dihedral on 66 in. two-piece wing.

G/676
30p (6/-)



GRADUATE

By J. Punter
Very successful A/2 glider, designed after
both practical tests and well proven theory
on a succession of models. Consistent high
performance from this 82 in. span model.
G/1044 * * 40p (8/-)

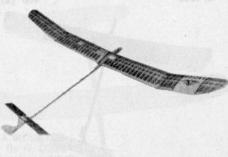


HANGER

By T. Faulkner
A simple glider fuselage, specifically
designed for magnet steering. Is suitable for
almost any set of A/2 surfaces.

6/972

20p (4/-)



LIVELY LADY

By E. Drew
An elegant A/2 glider design by 1969 World
Champ. Elton Drew. Careful construction is
the keynote to success for this superb model,
one of the finest ever produced in Britain.
Span 81 in.

6/1073

* * * * 50p (10/-)



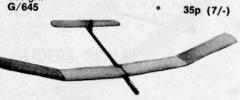
LEPRECHAUN

By R. A. Twomey
This low-aspect ratio sailplane is remarkable
for the astounding performance achieved
straight from the design board. First flight
was 20 min. 20 sec., and the original has
more flights of over \(\frac{1}{2}\) hour than under to its
credit. Span 103 in.



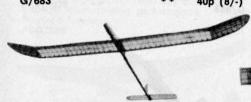
LUCIFER

By Bob Amor Second place in 1956 World Championship gained by this outstanding 75 in. span British design with latest style thin wing section and slender fuselage. An efficient all-weather design.



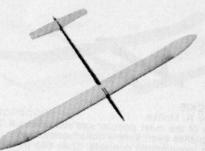
MEANDERER

By J. Baguley 96 in. span, large lightweight, can meet F.A.I. rules, has fine contest record, very simple construction, two-piece wing. Averages 2:50 from 164 ft. line.



MIGRATOR AND THERMALNOSE

By E. Avory
A 74-in. span A/2 glider from Canada. Two
versions on the same plan, both very easy
to build. Thermalnose came second at the
1963 World Championships, losing the
contest by a mere nine seconds and is a
direct development of Migrator.
G/826



M.P. 12

By Max Hacklinger
The elite amongst International A/2 class gliders, this 86 in. span German design by Max Hacklinger will reward the conscientious modeller who likes intricate detail in construction. Has many novel features.

G/573

50p (10/-)



NORDIC TERN

By R. F. L. Gosling
An A/2 design by an expert at model
sailplanes. Features automatic ailerons and
a wealth of practical ideas developed during
the designer's long experience. Span 66 in.
G/374

**
50p (10/-)



OMEGA

The 1955 Queen's Cup Winner, a very simple A/2 with excellent contest record. Constant chord wings make it suitable for beginners. Wing span 64 in.

G/614

* 30p (6/-)



QUICKIE

By R. Monks One of the most popular and successful A/2 sailplanes ever; simple construction, has won innumerable contests. Span 661 in.



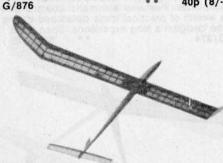
SANS EGAL

By R. Hyvarinen Nordic countries Championship winner, a super job in all respects with admirable all-weather performance. 80 in. wingspan with detachable halves, hardwood wisely used for spars and longerons. 40p (8/-) G/725



ROLLING STONE

By D. White A top notch A/2 contest design with a tremendous contest record, multi spar wing spans 76 in. and is pylon mounted.



SATAN

By W. Pullen Longer tail moment version of the famous 'Altair' with other features from 'Lucifer,' by another South Essex clubman. Simple to

build and with two-piece wings measuring 76 in, span, it boasts high performance for little constructional effort. G/717

30p (6/-)

SHORTY

By J. Hancock Ultra short nose A/2 for thermal snifting. Successes include several wins at big rallies; easy construction allows for breaking down to small parts for transport. 65 in. span. 30p (6/-) G/583



SUNCLIPPER

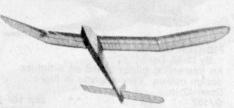
By A. J. Smith Theory into practice. A simple highperformance design by the author of 'Simple Aerodynamics." Span 60 in. 35p (7/-) G/192



60p (12/-)

SUNSPOT

By R. Yeabsley Outsize ultra-lightweight sailplane of easy construction, and holder of many contest honours. (Weight 23 lb.) Span 120 in. G/283



THERMALIST

By R. Minney Largest size sailplane to F.A.I. limits. Cabin type slabsider, even chord wings with elliptical tips. Span 137 in. G/306





BREGUET 901

By A. Millon Elegant French high performance sailplane with very high aspect ratio 671 in. wing capable of surprising performance. Planked fuselage. FSG/680

30p (6/-)

TOPSCORE

By J. B. Hannay British leading A/2 design, proven over many years. A contest winner with construction simple enough for beginners. Unusual tip fins on 73 in. wing with tongue and box attachment. Placed 8th in 1957 World Championships. G/684 30p (6/-)



WICHITA-5

By M. Woodhouse A high performance A/2 glider with simple construction and geodetic tailplane. Full auto rudder and timer details. Winner of many contests. MA/404 40p (8/-)



SLINGSBY (KIRBY) TANDEM TUTOR (T.31)

By J. Wilson A 54 in. scale model of a popular training glider used in many clubs and by the R.A.F. for A.T.C. Cadets. Has good flying qualities although true scale. FSG/692

30p (6/-)



D.F.S. REIHER

By P. M. H. Lewis An unusual scale prototype. This 6 ft. 3in. wingspan glider has all the grace of the original. MA/315 40p (8/-)

SLINGSBY T-21B

Slope soaring or towline scale model of the famous 'Sedbergh' or 'Barge' 56 in. wingspan. FSG/1018 20p (4/-)

15p (3/-)



WACO HADRIAN

By O. J. Lee A fine flying scale model of the famous troop-carrying glider, and with a superb performance. Span 50 in. 25p (5/-) FSG/219

GLIDERS, GENERAL



ARCHANGEL

By L. Gabriels A ruggedly-designed sailplane, ready to stand up to hard knocks in rough weather flying. High performance. Span 72 in. G/368 ** 30p (6/-)



ARNHEM

By T. Hervey Designed for the younger modeller, with all-sheet sides and simple construction, yet with realistic appearance. Span 30 in. G/263



CHICK AND CZECK

Two full size all sheet gliders. Hours of fun and cheap to build. 20p (4/-) G/905

NOT ILLUSTRATED CHUCK GLIDER TRIO

Three fine designs for all balsa chuck gliders.

G/958

20p (4/-) G/222



By D. R. Murrin Robustly constructed model for the enthusiast. Has fine flying qualities. Span

66 in. 35p (7/-) G/224

FIGHTER GLIDER

By D. M. Dent An interesting glider based on a fighter design outline. Very realistic in flight. Span 42 in.



HOVERKING

By P. Gilbert Slope soarer by one of Britain's most expert sailplane builders. Simple structure, neat appearance, has been used with tow-line and R/C. Span 72 in.

G/379 50p (10/-)

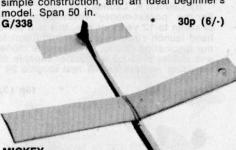


By G. W. W. Harris An ideal machine for contest flying, the original made one flight of over 80 miles. Span 60 in. 30p (6/-)



LULU Mk. II By J. Barker

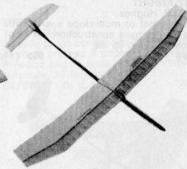
A high-performance sailplane of extremely simple construction, and an ideal beginner's model. Span 50 in.



MICKEY

By J. Van Hattum Simple glider of all balsa construction which is ideal for raw beginners. Small size, 231 in. wingspan, keeps the model robust and safe to trim and fly.

G/969



Eight all-balsa chuck gliders including scale versions of the famous Hawker Hunter, Sabre and Super Sabre designs in a complete course of flying with this type of model. Perfect for club groups, this inex-

pensive introduction to aero-modelling takes

one from the elementary stage up to the high performance American record-holding

all-balsa chuck glider design.

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OCTET

U/657

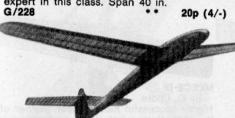
PHOEBUS

By W. I. Barrett 30in, span sports glider, which will teach the novice all aspects of trimming and towing technique. Simple yet strong construction. G/1052 20p (4/-)



MICK FARTHING GLIDER

A lightweight glider by an acknowledged expert in this class. Span 40 in.



MOBY DICK

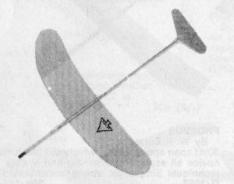
By E. Smith Shoulder wing high-performance contest sailplane, utilising laminar flow wing section. Span 821 in. 75p (15/-) G/310



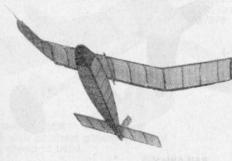
SAILAWAY

By Vern Clements A 15 in. chuck glider in profile or pod and boom form, also a little glider for indoor work, only 6 in. span. An ideal plan to introduce the novice to this type of flying. 15p (3/-) G/730

SILENT KNIGHT By D. R. Hughes Single channel or multi-slope soarer with simple and rugged construction, an ideal first soarer. Span 85 ins. 55p (11/-) MA/398



SLARMI By T. Slater Contest winning chuck glider of 18 in. wingspan. Can be flown in most conditions and capable of averaging 45-50 seconds. 15p (3/-) G/953



WALTHEW GLIDER By R. Scott A novice's first glider, this model has simple yet strong construction. Span 29 in. 20p (4/-) G/341



WHIZZLER

By Captain K. Laumer For the "pocket-money" restricted youngster of seven to 12 years of age, this is a perfect hand launch (throw) glider introduction to our fascinating hobby. It takes little money and skill to produce a Whizzler capable of providing endless fun. A real toughie 24 incher. G/791 15p (3/-)

YELLOW BIRD 13 & 20 By A. Webber

For maximum enjoyment from a minimum outlay, the humble Chuck-Glider cannot be beaten. A really high performance example in 13 in. and 20 in. versions, the plan includes full building information, trimming and launching technique. G/805 20p (4/-)

Control Line Sport



By C. Coote Highly successful mouse racer, winner of the 1970 'Nats' event, yet is extremely quick easy and cheap to make. Ideal introduction to racing model aircraft using the popular high performance .049 cu. in. motors. Full details of Cox Golden Bee modifications and contest rules provided on plan.

20p (4/-) CL/1091 C, D.



By R. C. Povey Novel sports delta model for .5 -. 8 c.c. engines and 13 in. span. Ideal control-line trainer, and will fly in very strong winds. CL/980 _ C, D.



CUPID By Ron Moulton

Near-scale lines of this small Racer make it suitable for pure sport flying as well as club contest work. 20 in. span, with novel wing construction in sheet, and neat u/c it flies at 70 m.p.h. with A.M.15. CL/708



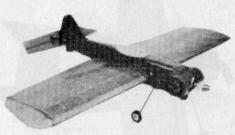
BOUNCER By P. Moir

As a first attempt at control line flying this 24 inc htrainer for 1-1.5 c.c. engines cannot be beaten. Full instruction sheet included contains details for a "Rigidrist" control line handle to teach correct pilot technique. The ideal trainer.



GRMZPF

By D. Burke A 36 in. wingspan Rat Racer from America, fast, semi-streamlined. 30p (6/-) CL/975 CL/940



TUFFY

By M. Maude A really tough control line trainer, will bounce off most crashes if covered in nylon. Plywood engine protector and simple structure, 28 in. span.

CL/829 D. E. F. 20p (4/-)



TYRO GYRO

By D. Longman An unusual control-line autogiro powered by a 1 c.c. engine. Rotor diameter 191 in. MA/139 30p (6/-)



VEDETTE

By W. I. Barrett An unusual C/L stunt/sport design featuring mid wing, vee tail and tricycle undercarriage to give distinctive appearance. Wingspan 30 in. E, F.

35p (7/-)



MINI-MOUSE

By K. A. Day
For the smaller engines 1.5 to 2.5 c.c. this
mini-rat-racer fills the bill ideally for those
who want quick (and cheap) results.
CL/825 E, F, G. * 30p (6/-)

PERCIVAL MEW GULL

By H. C. Thomas
Accurate scale Racer, capable of 75 m.p.h.
with a plain bearing engine. Wing span
24¾ in.
CL/600 G. *** 25p (5/-)



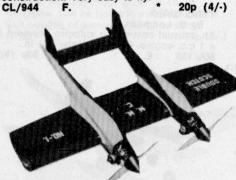
DUSTY

By I. Barrett
An unusual 26 in. wingspan C/L sports model combining good looks and detail for flour spraying by third line, together with simple construction. Very easy to fly.



SKYHAWK

By L. Ellis
New look in delta wing from Canada, trike
u/c and very simple construction, meets
the S.M.A.E. Class A specification. 18 in.
span.
C/679 G. * 30p (6/-)



DOUBLE SCOTCH

By J. M. Davidson
An unusual twin engined stunt/combat
model, to suit motors of 1.5 to 3.5 c.c.
capacity. This 34 in. model is simple to build,
yet is strong enough to withstand all the
rough and tumble encountered in flying over
several seasons.
CL/1069 2 engines F. G. H. ** 50p (10/-)



A-RAT

By D. C. Clarkson
A rugged design for a Class A rat-racer.
26 in. span. For 2.5—3.5 c.c. motors.
Very fast.
CL/1074 G, H. 20p (4/-)



SUPERMOUSE

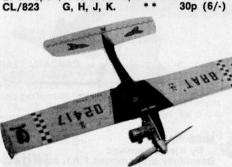
By K. A. Day
Rat Racing remains unhindered by detailed
rules, and will appeal to the many
individualists.

Top line performance does not necessitate "tuned" engines. Models are easy to build and fly. This larger version for .40 cu. in. is 27 in. span, flies at 90 m.p.h. or more. CL/823 G. H. J. K. ** 30p (6/-)



SORCERER

By P. Cameron
Ten final placings in twelve major contests
make this an outstanding Class "B" racer.
Easy but rugged construction, fast and stable
flight. Span 27½ in.
CL/544
J. * 30p (6/-)



BRAT

By D. Rudd

The top Rat-Racer—has won more contests than any other design in this country. Very strong 33 in. span model uses high performance engines of up to .40 cu. in. Plan includes details of engine cut-off and pressure fuel system.



KARATTE

High aspect ratio rat-racer, of attractive appearance and strong construction. 36 in. span, for up to .40 cu. in. motors.

CL/1057 H, J, K, L. * 40p (8/-)



By F. Warburton
Class B Rat Racer for motors of .20—.40
cu. in., 5—6.5 c.c. (original used Fox
motors). 30 in. wingspan.
CL/1014 J, K. ** 20p (4/-)



GREY GHOST & SHOESTRING

By J. Kloth
Two designs for the newly introduced profile
Goodyear racing event for control line
models—using 2.5 c.c. engines. Very easy to
build and form an ideal introduction to
contest flying.

40p (8/-)

* 40p (8/-)



RIVETS

By J. Shaw A profile Goodyear Racer with lightweight built up structure to suit 2.5-3.5 c.c. engines. Plan includes full details of a fuel cut-off used for quick pit-stops. 27 in. span. 20p (4/-) CL/1084 G, H.



LONG MIDGET

By N. Webb 28in. span lightweight profile Goodyear Racer, featuring built up, sheet covered surfaces. Quick and easy to build, forming an ideal introduction to this newest form of racing. CL/1085 G, H. 20p (4/-)





By R. Place Our first S.M.A.E. class 1A team racer, to latest 1964 specifications. A performance of 80 m.p.h. with 45 laps per tank has given this 251 in. span model many contest wins. Very tough construction. CL/833 E, F. 30p (6/-)



MISS F.A.I.

By Kjell Rosenlund Beautifully proportioned F.A.I. class Team Racer by Sweden's master of the art and winner of the 1961 Criterium of Aces in Brussels. A genuine 100 m.p.h. plus racer. High aspect ratio, 351 in. span elliptical wing. CL/778 J, K.



JEFE-II

By H. Stockton and D. Jehlik 1965/7 European Champ. 1966 World Champ. A top British F.A.I. team racer, of 38 in. Team Racer, simple yet the best, 28 in. for 2.5 c.c. CL/932



By B. Turner wingspan. Simple and quick construction, vet with all the latest design features. 30p (6/-) CL/943 G. 30p (6/-)



TIGRESS By Ken Long One of Britain's most successful current rule F.A.I. class team racers. The design has been thoroughly and practically tested over a long period by the Wharfdale team. First in

the 1960 British team selections and placed 4th in 1960 World Championships, has beaten 5 mins, for the 10 kilometer distance many times. Span 381 in. for 2.5 c.c. engines.

CL/741 G. 30p (6/-)

RAZZAMACHAS

By C. Taylor Fast, monowheel Class B racer delivers top line performance with a standard unreworked ETA .29. Plan incorporates the all-important prototype tank detail. Span 301 in. for 5 c.c. engines. CL/803

J. K. 30p (6/-)



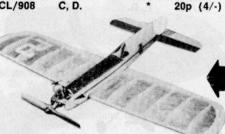
By K. Long A very successful S.M.A.E. class B team racer. First class contest record including placings in most of the big competitions throughout the country, and first in the 1960 National Championships. Embedded metal motor mount, and fuel tank detail. Span 331 in. for 5 c.c. engines, particularly the ETA 29. CL/763 30p (6/-)





By C. A. Foss A diminutive 18½ in. span control line stunt trainer to suit .5 -.. 8 c.c. engines Ideal for

the novice. CL/908



ELF CAT

By J. H. Bailey Designed to meet the demand for a 1-1.5 c.c. stunter, this 32 in, model has wing flaps, racing lines and easy construction. CL/703 D, E, F. ** 20p (4 20p (4/-)

CHESHIRE KITTEN

By W. A. Pollard Very easy to make and surprisingl yaerobatic despite the small engines it normally carries, this design is one of the most popular small stunters in our range. Only 21 in. span. CL/693 B, C, D. 30p (6/-)

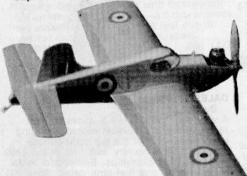




CHIHUAHUA

A 29 in. wingspan stunter of simple construction and handsome appearance combined with a lively performance. For

1-1.5 c.c. motors. 20p (4/-) D, E, F. CL/1004



RASCAL

By R. G. Moulton Special stunt trainer will fly the "book" on low power, uses new style thick section, fully detailed, eighteen stage instructions on plan. Ideal for modellers wanting to learn how to loop; the favourite design for 1 c.c. aerobatic flying. 26 in. span.

25p (5/-) CL/660 D, E, F.



SHARPOON

By K. Laumer A 36 in. span aerobatic trainer for 1 c.c. to 1.5 c.c. engines (larger sizes can be used by experienced fliers) that combines good looks with simplicity. Trike undercarriage. 30p (6/-) D, E, F. CL/806 GRIFFON

By Dave Platt A fully aerobatic sports-stunt model of semi scale lines for 1-1.5 c.c. engines. Span 32 in.

30p (6/-) MA/292



SIMPLE SIMON

By W. P. Holland This 28 in. span model for 1.5 c.c. is fully stuntable, and also makes a neat, easy to build trainer with 1 c.c. Handsome, raked lines are in keeping with latest design trends and the semi-scale appearance lends itself to bright decoration.



SPACEBOUND

By M. Constant A snappy little 1.5 cc. 331/2 in. span stunter based on the lines of "Spacehound" our other large Russian stunter. 35p (7/-) CL/906 E.F.



PRINCESS

By G. Cornell Elegant, lightweight and a beauty to fly, this 34 in. elliptical winged model is happy with 1.5 or 2.5 c.c. engines and will go really "square" in the S.M.A.E. Stunt schedule. Extensively detailed plan with many installation sketches.



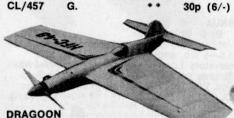
WILDFIRE

By G. Stowers and E. Taylor A good looking cabin stunt model. Ultra streamlined, resembles a fighter aircraft. Span is 271 in., 133 sq. in. area.

CL/364 F. G. 20p (4/-)

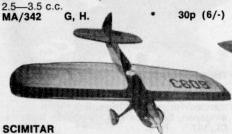
AMBASSADOR

By A. Hewitt Probably one of the best known stunt models ever, and certainly one of the best performers. Span 351 in. A Gold Trophy winner.



By Hoh Fang-Chiun A sleek stunt/combat model capable of

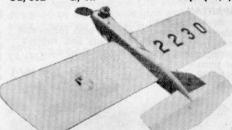
exceptional performance with simple design and construction. Span 37 in. for engines of 2.5-3.5 c.c.



By W. Morley A stunt model for 2.5-3.5 c.c. engines, S.M.A.E. stunt schedule. Open cockpit racer or combat model, based on the Curtiss lines. Span 45 in. MA/270 G. H.

By Peter Russell Gold Trophy winner in 1956 and a fine stunt model with fighter-like appearance. This was the most popular plan for 1956 in the control line sphere. 42 in. model.

CL/632 G. H. 50p (10/-)



BLUE PANTS

334G

By Henri Stouffs Thick-wing stunt design flown to win the aerobatic class in the 1954 World (controlline) Championships at The Hague. Span 39in.



RED DRAGON

By H. C. Quek An attractive semi-scale profile stunter based on the Mitsubishi A6M5 Zero-Sen, tough construction, 40 in. wingspan.

G, H, J. 30p (6/-) CL/842



FLYING TIGER

which will perform all the manoeuvres in the A very lively semi-scale profile stunt trainer P.40 Tomahawk. 40 in. span.

G, H, J. 30p (6/-) 40p (8/-) CL/843

50p (10/-)

45 in. coupled flap design with easy sheet fuselage assembly and thick wing section.

30p (6/-)

Ideal for stunt beginners.

CL/673 H. J.



By F. L. Warburton
54 in. span full aerobatic control liner for
5 c.c.—8 c.c. engines, by one of Britain's
leading aerobatic fliers, based on the
headline making Lockheed U-2 aircraft to
give a steady line pull throughout all stunt
manoeuvres and smooth take-offs and
landings.

CL/798 J, K, L. ** 50p (10/

ZLIN 226

motors.

CL/955

By F. Warburton Snr.

Another large semi-scale C/L stunt model

designed by an acknowledged expert in the

class. Featuring adjustable lead out position

for final trimming. Span 503 in. for .35 cu. in.



FOXSTUNTER
By J. W. Coasby
A fully flapped stunter capable of very tight manoeuvres and high speed stunting. Span 42 in. Area 350 sq. in.

CL/406 J, K.

Very attractic Sweden, bas P-51B, comb Aldrich desi appearance.

Aldrich desi appearance.

CL/406 J, K.

* 30p (6/-)

give a steady line pull throughout all stunt manoeuvres and smooth take-offs and landings.

CL/798 J, K, L. ** 50p (10/-)

MUSTUNT

By E. Bjornwall

By E. Bjornwall
Very attractive 51½ in. span stunter from
Sweden, based on the North American
P-51B, combines the best of Palmer and
Aldrich design features with semi-scale
appearance.
CL/878 J, K, L. ** 50p (10/-)

S

C

STAMPE MONITOR

By F. L. Warburton 56 in. span semi-scale control line stunt model with 610 sq .in. wing area for really top class aerobatic performance with large 5 c.c. to 10 c.c. glow motors. A first class design by one of Britain's most expert fliers with all the most modern and desirable features

CL/820 50p (10/-)



HEINKEL He 100

Semi scale stunter designed to couple top aerobatic performance with an unusual, scale appearance, 54 in. span model performs best with a .35 cu. in. motor. CL/1036 K, L, M.





1966 World Champ stunt model 55 in. for

K, L, M, N.

SPACEHOUND

"jet lines."

SUPERMASTER

By J. Gabris

CL/930

.33-45 c.c. engines.

CL/846

By J. Sirotkin

The very finest in large stunters, placed 2nd at 1963 Criterium of Aces and 5th at 1962

Features ducted cowl, spatted wheels and

World Championships, 55 inch span.

K, L, M, N.

By R. C. Jude A simply constructed basic trainer. Span 30 in.

CL/318 25p (5/-) DEVIL

By U. Rossi An F.A.I. class speed model from Italy, with exceptional contest record, including first place at the 1959 Criterium of Aces in Brussels and 1960 World Championships. Model has done 145 m.p.h. Simple to build. Span 213 in. Engines 2.5 c.c. Based on the two line system. CL/749 25p (5/-) Combat

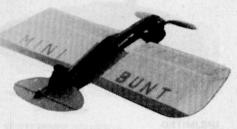
FLIP

50p (10/-)

50p (10/-)

By R. H. Warring An ideal beginner's C/L trainer/combat model. Span 251 in. length 9 in. For engines of 1 c.c.

MA/276 30p (6/-)



MINIBUNT

Club type 1/2 Combat model, developed from "Stoo" Holland's "Flingel Bunt." Span 24 in.

CL/901 D. E. F. 20p (4/-)



KETCHUP

By R. Walden Profile fuselage stunt trainer with simplest possible construction, ideal novice model, Span 28 in. 1.5 c.c. engine.

20p (4/-) CL/886 D. E. F.



By R. Wilkens

Full aerobatic 1A Combat model based on the sensational "Early Bird" model that has been so successful in contest. Extra tough construction and building instructions. Span 22 in.

20p (4/-) CL/904

SPLATT

By M. J. Platts A "IA Combat" design to meet the growing demand in club competitions, this little simpleton is 7 ozs. of zippy control liner for 1—1.15 c.c. engines. With 20% in. span, it will fly at over 80 m.p.h. without a streamer. D, E, F. 20p (4/-) CL/785



BLUE BAYOU

By B. R. Bumstead Tough &A combat model of 21 in. wingspan, with curvacious outline and flying elevator. For 1.5 c.c. motor.

CL/1005 E, F. 20p (4/-) SLICK SCHICK

By D. Sparkes A tough 1A Combat wing of 23 in. wingspan for 1-1.5 c.c. motors.

CL/968 20p (4/-) F.



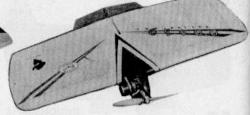
UNLIMITED

CL/369

RUTER-ESS

F, G.

By R. Smith This most unusual flying wing type of control liner has proven practically indestructible in the hands of absolute novices. Capable of all known stunts, the method of construction CL/893 is simple yet amazingly rugged. Span 20 in.



DOMINATOR

A 28 in. span fast flying combat wing 1965 Criterium of Aces winner and contest flier's favourite.

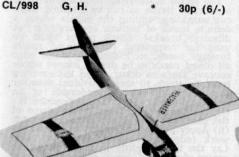


By F. G. Dowling Really high performance combat wing by one of the top fliers. This 311 in. span model is quick to build, strong and turns about a very small radius.

28% in. low aspect ratio flying wing type

combat model with a great reputation.

Extremely tough and manoeuverable.



By G. Aldrich Specially commissioned design for British combat by American champion stunt flyer, has amazing manoeuverability with radical design approach. Capable of all manoeuvres including square figure eights. Span 361 in. CL/687



SEPTEMBER WARRIOR

20p (4/-)

By B. Bumstead Class A combat model with sparless wing, laminated leading edge and all moving tailplane supported on piano wire outriggers. Tough and easy to construct. MA/385 20p (4/-)



STREAMER EATER

By A. Ytreov All moving tailplane, flying wing from Norway. Rugged construction and tank details, meets F.A.I. regulations, 30 in. CL/883 G



PEACEMAKER

30p (6/-)



STREAMER SCREAMER

By D. Sparkes A fast and highly manoeuverable combat/ sports C/L model deal for the beginner using a 3.5 c.c. engine or a .40 for Class B Combat. CL/1096 G, M, J, K. * 40p (8/-)

RAZOR BLADE

By P. N. Tribe Leading British Combat "Wing"—a fast flying and very manoeuverable model for the Class A contests. Will withstand loads of punishment. Span 32 in. CL/729

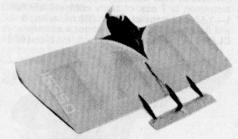
30p (6/-)



EARLY BIRD By R. Wilkens

CL/1022

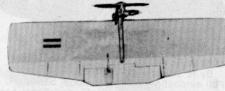
DONGUS By S. Larsson By G. Johnson & D. Pinckert Top class lightweight combat model Join the Combat brigade with this hot design featuring rather unconventional construction. from two leading U.S.A.F.E. flyers. 301 in. Capable of very tight manoeuvres at a high span for 2.5 motors, designed to be simple speed. 34 in. span. to build, but extremely strong. CL/989 20p (4/-) G. CL/789 30p (6/-)



TURNCOAT

By M. J. Morris 29 in. top selling combat design for 2.5 c.c. 20p (4/-) CL/926





DUELLIST

By Adolpho Tristany Spanish Combat Champ, will turn on a sixpence, cheap to make, indestructible when silk covered. 323 in. span for wide variety of motors.

CL/648 30p (6/-)

CLEAVER

By G. Copeman Here's the combat model with more cuts to its credit than your modelling knife. High speed, manoueverability, smoothness of flight, efficient tank go to make a top-notch design. 35 in. span for 2.5 c.c. to 3.5 c.c. engines. 30p (6/-) CL/799

How to Tissue Cover your Model

THE COVERING of a model aircraft used to be one of the trickiest parts of the construction; modern materials have large-

are six main types of tissue for the job.
Lightweight tissues, in order of weight, are (i) hard (or Swedish) tissue, (ii) Japanese tissue, (iii) Lightweight Modelspan. The first of these is a smooth, crackly paper which can be torn with equal strain in any direction and is available in a wide range of colours. It requires dampening (not soaking) with water after application in order to shrink it, and it shrinks evenly all over once only, i.e., a wrinkle cannot be removed by a second, local shrinkage. Only a small amount of dope is required for air-proofing, and a glossy finish is fairly easy to achieve.

Japanese tissue is nowadays only avail-

The only medium weight tissue available is known as rag tissue, and is obtainable only in white' It looks alarmingly weak before doping, and is soft and non-rustling: its appearance is very much like paper handkerchiefs. Water-shrinking is definitely undesirable, but shrinkage is objectly filled with clear dope.

considerable and strength astonishing after

Two heavyweight tissues are obtainable, Two heavyweight tissues are obtainable, Burmese (white only) and heavyweight Modelspan, which can be had in five colours. Both these materials are tough, opaque papers, slightly rough to the touch when undoped. Water-shrinking is advisable before doping, and it is not really easy to obtain a high-gloss finish without adding a fair amount of weight.

All of these tissues may be attached with the same adhesives and the technique to be one of the trickiest parts of the construction; modern materials have largely simplified the process but it still does constitute a major stage in the production of a model and one which, especially in the case of beginners, offers something of a headache. Of the three main covering materials, tissue, silk, and nylon, by far the greatest use is made of the first. Probably 99 out of every 100 models are wholly or partly tissue covered, and there are six main types of tissue for the job.

Lightweight tissues in order of weight material is that it is soluble in water, and trouble can thus arise when a concave surface, e.g., wing undercamber) is water-shrunk; the paste is loosened by the water and the tissue pulls away as it shrinks. In such cases a waterproof adhesive is required, and Tissue Cement, a thinner, slightly slower setting cement than is used for balsa, caters for this. Many builders use this cement for all covering work. Gum or mucilage is also employed, while the use of thick clear dope is becoming more widespread, especially with the more porous papers. Flour paste is sometimes used, but tends to make the tissue soggy and locally weal.

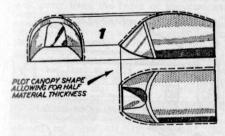
in order to shrink it, and it shrinks evenly all over once only, i.e., a wrinkle cannot be removed by a second, local shrinkage. Only a small amount of dope is required for air-proofing, and a glossy finish is fairly easy to achieve.

Japanese tissue is nowadays only available on rare occasions: In a good range of colours, it can be distinguished by a visible stripe which runs in one direction through the sheet, and has a definite grain but only with feluctance across; in the same way it shrinks more across the grain than along it, so that for best results the grain should always run along the longest length of the area being covered. Shrinking and doping is as for hard tissue.

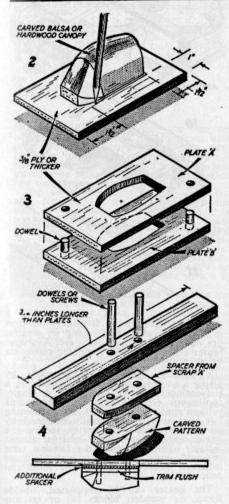
The first really specialised British covering paper, Modelspan, appeared in a limited range of colours soon after the war and is now extensively used throughout the world. Fibres running in all directions identify the paper, and it will tear (before doping) at any angle. Shrinkage is even in all directions, but local shrinking can be induced after initial shrink. So great is the potential contraction that water-spraying or steaming is entirely unnecessary, and the covering need only be doped to produce a smooth, wrinkle-free surface. Getting a gloss is not difficult.

The only medium weight tissue available is known as rag tissue, and is obtainable only in white' It looks alarmingly weak before doping, and is soft and non-individual member (e.g., each rib on the underside of an undercambered wing). The procedure is:

(i) Cut a panel of tissue as can be attached without wrinkling, ending the panels where a definite break of contour appears (e.g., at definite break). Small pieces must be usel gentow, twinkleng, ending the panels where a definite break of contour appears (e.g., at definite break). Small pieces, must be usel gentow, twinklestue as can be attached without wrinkling, ending the panels where a definite prain should always curs always and sent the tissue escent.). Only the outer edge concave surfaces occur, when the covering mu dope, except in the case of ultra-light frameworks, when banana oil is used to airproof the covering without shrinking it. Colour dope and fuel proofer should only be applied when the tissue pores are com-



Plastic Moulding



THE GENERAL method of moulding cockpit covers, etc., from transparent plastic sheet has been described many times in the past. The process of heating the sheet to a "plastic" state and then forcing over a suitable male pattern (or forcing the mould into the heated sheet) is capable of giving excellent results. Without the required "know-how", though a lot of time—and sheet plasticl—can be wasted following such general instructions. Hence we are describing this specific method of obtaining first-class mouldings which can be made at least equal in quality to commercial mouldings, and usually better.

Starting point, as in other methods, is to draw out a full size pattern of the shape required (1). This must be slightly undersize to allow for the thickness of the sheet material forming the moulding. On a typical canopy "draw", the thickness of the moulded part is usually half the original thickness of the plastic sheet—this thinning down being inevitable since the original sheet is expanded in area during moulding and since it does not change in volume, must lose thickness. Bear this THE GENERAL method of moulding cock-

ing moulding and since it does not change in volume, must lose thickness. Bear this in mind when deciding what thickness of canopy you want and start with sheet twice as thick.

The pattern can be carved from balsa or hardwood. The former material is quite

The pattern cal. be carved from balsa or hardwood. The former material is quite suitable for drawing one or two off. Hardwood is better where a fair number of identical mouldings are required. This pattern need not be finished perfectly smooth and free from grain marks for ordinary mouldings.

The next step is to cut two identical ply plates appreciably larger than the base of the pattern (2). Plate B, which becomes the bottom plate, is cut out to take the pattern with a clearance all round equal to the plastic sheet thickness. Plate A is cut out in similar fashion, but with a more generous clearance. The clearance on plate B is not critical provided a moulding "tight" to the bottom edge of pattern is not required, but it must be large enough not to jam, the sheet in the final moulding process. In other words, it can be oversize without giving trouble, other than an exaggerated "draft" on the bottom edge of the moulding. The two plates are conveniently located and locked together with a couple of dowels (3).

If the material is too rigid to form properly at stage (10), then most probably the heating time has been too short.

the heating time has been too short. the heating time has been too short. Some improvement may result from preheating the pattern by aying on top of the heater. The same is true if the moulding tears. If the finished moulding has bubbles in it, or has a rough surface, then the plastic has been overheated. If the material looks overheated but is very difficult to mould (i.e. requires extreme pressure at stage (10)), then increase the clearance on plate B. If the bottom of the moulding (top when removed from the moulding (top when removed from the mould) has a rough or flattened surface, check that there is sufficient clearance

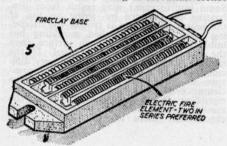
between plate B and the table and that the moulding is not actually being forced into contact with the table surface.

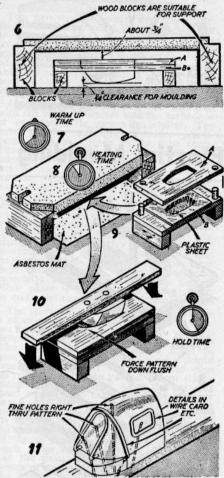
The other thing to remember is that the best mouldings will only result from using plastics suitable for pressure moulding. Not all plastic sheet moulds well, or gives satisfactory results. Celluloid, and standard acetate sheet, is not easy to mould in deep draws, as the heating time is quite critical. If overheated, it bubbles, if underheated it may draw, but will also go milky white in patches. So try to get acetate sheet, or similar, specified for pressure moulding. Perspex sheet will break or tear if underheated; or bubble if overheated. Flexible PVC is easy to mould, but tends to go cloudy (and, of course, gives a flexible moulding). Rigid PVC is an excellent material for opaque mouldings. mouldings.

For really detailed mouldings, the same technique can be used with some re-working of the pattern (11). In this case the pattern must be finished perfectly smooth as every surface mark will show smooth as every surface mark will show up. Details such as frames, etc., can be added by fitting wire, card, thin ply strips, etc. (11). Each panel area should then be ventilated by drilling with a very fine hole. In practice, it is easiest to drill a number of larger holes through the back of the pattern assembly and link up to these with the fine holes drilled through the actual pattern surface. The holes must be actual pattern surface. The holes must be small as otherwise they will show up as small 'pips' on the final moulding. The pattern itself is increased in depth

by the thickness of plate A (the cut-out piece from plate A can be trimmed down for this spacer). A balsa pattern is best assembled with hardwood dowels (4). With a hardwood pattern, woodscrews can be used for assembling on the pressure be used for assembling on the pressure bar. The latter is any convenient size of hardwood strip some 2 to 3 inches longer than the plates so that it overlaps each end when the pattern is laid in the mould plates. If the final moulding has to be trimmed flush with the bottom edge of the pattern, another spacer (about 1/16 in. thick) should be fitted to give an extra depth of draw. This will eliminate the chance of getting a curled edge at the bottom of the trimmed moulding.

Various methods of heating the plastic sheet can be used but for consistent results uniform heating is essential. Hence





a specially made heater is usually the best proposition, rather than using an electric fire or gas fire, cooker oven, etc. A proper heater also enables the moulding operation to be properly timed.

A suitable heater is easily made by fitting a standard electric fire element in a conventional ceramic mount (5). A single, continuous element ated for the mains voltage applicable will give strong heating but best results are usually obtained by joining two elements in series, so that the heater operates at dull red heat (or almost 'black'). This increases the heating time required but is virtually equivalent to infra-red heating, as used in industrial processes.

The heater can be supported, upside down, on wooden blocks (6) or on any

suitable stand. Leads should be taken out A and B (9), The sheet should overlap at well away from the front of the unit and least one inch all round the cut-out. Make completely insulated. The height of sure, too, that the sheet is clean and free mounting is decided by first finding what from scratch marks. When sure that the

The plastic sheet is cut to size and sandwiched between the two mould plates

mounting is decided by first finding what height plate B has to be blocked up for the finished moulding to have about a tin. clearance. Blocks can then be fitted to plate B to give this clearance, making sure that they are well clear of the cutout portion. Then arrange the height of the heater so that the top of plate A is about \$\frac{1}{2}\$ in. below the level of the heating elements.

The complete moulding cycle is then shown in steps (7), (8), (9) and (10). First of all the heater must be switched on and sufficient time allowed for it to heat up to maximum, uniform temperature. With twin elements this may take up to twenty minutes.

The plastic sheet is cut to size and the start of the plates underneath and start a watch to check the heating time required will depend on both the type of plastic and its thickness. It is best determined by experiment with a few trial runs. The plate unit can be withdrawn at regular intervals and the state of the plastic observed. It is ready for moulding when it is showing definite signs of deformation or slight sagging, or is plastic enough to be pushed out of shape readily with a blunt piece of wood. As a rough guide, heating time required is usually of the order of 1 to 1½ minutes with 30/1,000 in plastic with 'dull' heating, and proportionately longer or shorter for thicker or thinner material, respectivefor thicker or thinner material, respective-

How to Solder

MOST MODELS call for only the simplest of tools and can be built throughout with

form a good bond between the surface of the metal and the solder. The function of the flux is rather com-

plex, but, briefly, it is this. Solder "sticks" metal by melting into its surface, i.e. by forming a very thin skin of alloy between the metal and the body of the solder. The solder cannot fuse with the oxide of the metal, and the surface to be handled is always oxydised (a) by the action of the razor blade, glass-paper and pliers—until (b) by the heat from the iron. The flux is it comes to soldering. Even if it be only wheel retaining washers, most designs incorporate some metal-to-metal join which can only be made by solder.

incorporate some metal-to-metal join which can only be made by solder.

The secret of soldering is cleanliness, and, for model work, the use of a flux such as "killed spirits" (Baker's fluid), in conjunction with tinman's solder. Cleanliness means filing, scraping, or abrading the metals to be joined until they are bright and free from grease, and also using a clean soldering bit. Essential, also, is an iron suitable for the job—it's no good trying to solder 10 g. wire with a 10 d. instrument iron!

Soldering doesn't just mean placing the two parts side by side and dropping a to solder assembly, then bound and heated. To form a fillet of solder, the iron should be held beneath the work and the solder be held beneath the work and the solder the work on heavy metal blocks, but don't attempt to solder actually over a block, as good trying to solder 10 g. wire with a 10 d. instrument iron!

Soldering doesn't just mean placing the attempt to solder actually over a block, as two parts side by side and dropping a blob of molten metal over them. When the bit is really hot—so that the solder melts instantly on contact, but not so hot that it runs off—it should be damped with a little flux and a small amount of solder wiped on. The cleaned parts should then have a little flux applied and the iron used to tin them; this means that a thin coat of solder is run on to the surface after using a flux as mentioned above, and used to tin them; this means that a thin coat of solder is run on to the surface with the iron. The parts can then be placed together, fluxed and the iron placed in contact, when its heat will fuse the two tinning coats together and leave a clean, sound joint. It will be obvious that to do this the parts being soldered must be a good fit together, and that the heat applied to tinning must be sufficient to the run revenue a liquid experience. Always clean a joint thoroughly after using a flux as mentioned above, and do not use this type of flux for electrical joints; these should be made with Fluxite or other non-corrosive flux. For long joins thoroughly after using a flux as mentioned above, and do not use this type of flux for electrical joints; these should be made with Fluxite or other non-corrosive flux. For long joins thoroughly after using a flux as mentioned above, and the run in the place of th Doping and Finishing

MANY OTHERWISE excellent models are ruined by a poorly-doped covering job, and some even refuse to fly because of over-enthusiastic application, especially of colour. The normal covering materials require, as a rule, no more than three coats of thinned clear dope and nothing further.

Dope has two main functions, increasing the efficiency of the model and adding to its aesthetic appeal. Clear dope adequately fulfils the first of these, which may be subdivided into, in order of importance, (i) air-proofing, (ii) strengthening, and (iii) tightening the tissue. Note that the shrinking effect of dope is least important. Air-proofing of the covering is essential for good performance and the application of dope accomplishes this by depositing over the pores and fibres of the material a thin skin of cellulose, rather on the lines of a celluloid film laid over the original covering. This film prevents air passing through the material, slightly increasing lift but decreasing drag to an astonishing each of the covering is essential for a good finish—a few coppers saved here may ruin an otherwise first-class model. Dope should be flowed on fairly thin, and the brush passed over the surface only once. Allow each coat to on the tissue surface no further dope is on the tissue surface no further dope is on the tissue covering, (ii) clear doping one coat, (iii) applying up to four coats of sanding sealer and rubbing down with the

dopes are pigmented and thus increase weight tremendously, besides tending to make tissue a little brittle. When used, three thin coats are much better than one "treacly" one, and it is advisable to limit the application of colour to a little decoration, or to the fuselage only. To give depth of colour, it pays to use the nearest-coloured tissue for the covering which is to be doped.

Alternative (and lighter) means of colour-trimming are to cut the trim shapes from coloured tissue and dope them in coats of thinned clear dope and nothing further. In many cases two coats are sufficient, and when hard or even Japanese oil may be used to protect transfers, etc., tissue is used, one coat is frequently enough.

Dope has two main functions, increasing the efficiency of the model and adding to its aesthetic appeal. Clear dope adequately fulfils the first of these, which may be subdivided into in order of importance.

of a celluloid film laid over the orginal covering. This film prevents air passing through the material, slightly increasing lift but decreasing drag to an astonishing extent.

Colour dopes are used purely to improve a model's appearance and should be used very sparingly. A coloured model is visible further away, both in the air and on the ground, if the right colours are chosen. A model embodying large areas of colour should use coloured tissue, which is considerably lighter than a doped finish but requires a fraction more care in application. Red, yellow, and orange are the best for visibility, and flying surfaces of this colour with a darker (black, blue, etc.) fuselage are normal practice. Coloured tissues thus improve efficiency. Coloured

International Model Requirements

THE FEDERATION Aeronautique Internationale (F.A.I.) is the international governing body for control of model flying and issues certain specifications to which all models entering international contests or claiming World Records must comply. These specifications are detailed in the F.A.I. Sporting Code, Section 4, Aeronautique International weight in flying trim must not exceed 5 kgs. (11.023 lbs.). Loading.—The loading on the supporting surfaces, as defined above must be between . . 3.93 oz., per sq. ft. and . . . 16.38 oz. per sq. ft. and Radio Control models, the maximum being 24.51 oz., per sq. ft. F.A.I. Sporting Code, Section 4, Aeromodels.

Wing Area (Total projected area of the horizontal or oblique Wing and Tail surfaces) must be less than, or equal to, 150 dm² (16.142 sq. ft.).

Motive Power Permitted.—Rubber Mechanical engine or direct Reaction. In the latter case the weight of the engine should not exceed 0.5 kg. (17.63 ozs.) and the total weight of the model including fuel, 1 kg. (35.27 ozs.).

How to cover with Silk

THERE IS no other form of model covering that approaches the strength/weight ratio of silk or nylon, yet very few modellers appear to take advantage of this fact. First thoughts must certainly be for economy in use, and the raw silk is placed over the area to be covered, then trimmed to shape with a pair of sharp scissors, as in picture 1. The overlap allowance need

in picture 1. The overlap allowance need only be a matter of \$\frac{1}{2}\$ in. all round, since when applied wet, the silk will be pulled larger than when dry.

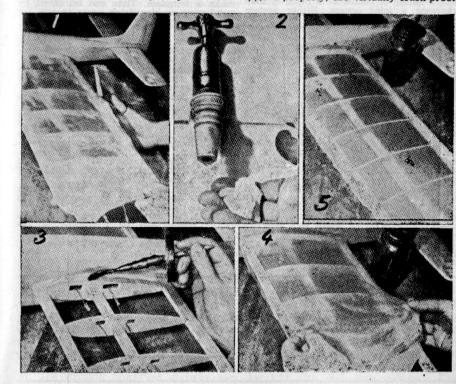
Next, take the silk to a tap and get it thoroughly wet 2. Then squeeze (do not wring out) the excess moisture by compressing in the palm of your hand, and then spread the dampened silk out flat and hang over a chair-back.

In 3 we are using our favourite pickle

the contents of the jar which are replenshed from the less convenient tins sold in the model shop. We have now made the framework thoroughly gooey—and flop—on goes the root end of the covering as in 4. Support the rest of the damp silk off the frame, then apply, panel by panel, pulling more spanwise than chordwise. When a couple of rib bay panels are done, pin the silk at the root to stop it slipping, and when the last wrapping around the tip is to be made, pull hard spanwise to remove any sag. This will give spanwise wrinkles which are soon removed by working the silk over leading and trailing edges. Application of extra dope here and there, enables one to move the silk quite easily while it is still water-damp.

while it is still water-damp.
Final effect is soon observed as in 5, and any white "blushing" soon disappears when the first heavy coat of shrinking dope is applied to fill the pores. Thereafter, use two or more extra coats of clear dope, as for a tissue covered model. wring out) the excess moisture by compressing in the palm of your hand, and then spread the dampened silk out flat and hang over a chair-back.

In 3 we are using our favourite pickle jar brush preserver, wherein the brush is permanently mounted in a Bakelite jar top, and the bristles always dope filled in applied properly, are virtually crash-proof.



Take care of your Plans

WITH OUR Plans Service continuing to expand there must always be new builders taking advantage of our wide range, many of whom may not have worked from a plan before and who may therefore be unaware of the odd hints which make the work much easier. These notes are written for such modellers, but old hands may find them useful.

General Use

Most builders like to preserve their plans, and since many parts are actually built over the drawing there is always the danger that the cement used will run and stick the plan to the framework. Even if a modeller doesn't mind his plan getting into a mess, the bits of paper have to be sanded off the model, so that it is a good idea to prevent this adhesion if possible. Covering the part of the plan in use with waxed paper or polythene is one method; alternatively, the drawing can be rubbed with a stump of candle or a piece of soap wherever a joint occurs. Either system

means that the completed framework can be lifted off cleanly and easily. A separate board for cutting out parts is also useful; it need only be a small sheet of ply and it will save the plan from being cut.

Tracing

There are several ways of transferring drawn-out parts to the wood from which they must be cut. These are (i) lay trac-ing paper over the plan and carefully trace the outline with a soft pencil, ensuring that the plan is lying on a smooth, hard surface. Turn the tracing paper over on to the wood and go over the lines from the back which will transfer the original tracback which will transfer the original trac-ing. (ii) Clip carbon paper under the plan and align the material by feel; go over the drawing very carefully with a hard pencil. (iii) Place the wood under the plan and pin-prick carefully round the outline, remove the plan and connect up the marks in the wood with a hard pencil. (iv) If you do not require the plan to be kept in good condition, cut out the drawn parts and paste them direct on the wood. This is not recommended for components longer is not recommended for components longer than 12 inches since distortion occurs during paste-down. When several identical pieces are required (e.g., wing ribs), paste make a template. Time can be saved by numbering or identifying parts as cut.

How to start a **Model Club**

There are two ways of starting a Club, and you should give careful consideration to the way you think will prove the best in consultation with your friends.

One way is to arrange a public meeting, and through the local newspaper and by letter, invite anyone to attend who is interested in the formation of a Model Air-

craft Club.

If it is decided to adopt this plan it

Whichever way is adopted, the first step
would be advisable to secure a well-known
for the newly-formed Committee is to
citizen to act as chairman of the meeting,
elect the following officers: citizen to act as chairman of the meeting, and to secure an able speaker to talk about the value of the hobby as a splendid way of occupying leisure. The SMAE should be approached if you find any difficulty in securing a speaker able to talk authoritatively on the subject.

After the speech, and time devoted to open discussion the Chairman should propose that a Model Aircraft Club be formed. and he should put the motion to the vote of those attending the meeting. If it is carried, as doubtless it would be, a pro-visional committee should at once be

formed to go into ways and means.

The second way is much simpler, and leads to the same end. The originators of the idea to form a club should decide to regard themselves as the provisional committee, and leave the public announce-ment of the venture until a later date when headquarters have been found, and

(a) A Secretary and Treasurer (the two offices can be combined in the early stages)

(b) A Chairman (preferably a senior)
(c) A Press Secretary
(d) A Competition Secretary.

JOIN THE S.M.A.E. NOW

It is run by aeromodellers, for aeromodellers. It negotiates for flying sites, organises contests, publishes a newsletter, provides £50,000 third party insurance for members and protects your model control frequencies. For full details and the address of your nearest club, send an S.A.E. to: Society of Model Aeronautical Engineers, 10a Electric Avenue, London, S.W.9.

Balsa Wood and how to use it

BALSA (or balsawood, whichever you prefer to call it), has been the standard material for model airframe construction since it first became available commercially in suitable cut sizes-some thirtydensity lib./cu. ft. least, balsa is only about the fourth or fifth lightest wood in the world it is the first of all the woods which combine strength with lightness. On a strength/ weight basis, in fact, balsa compares shown below—

directly with density—the heavier the wood the stronger it is.

Balsa is normally graded by density, although the actual descriptions are largely arbitrary and not alway identical between different suppliers, or different model dedesigners specifying grades to be used. The most general commercial classification is "light," "medium" and "hard," as under-

grade	light or soft	medium	hard
density lb./cu. ft.	6-8	9-12	12-16

The more expert modellers adopt a wider range of grading, typically as

grade	ultra- light	light	light medium	medium	medium hard	hard	extra hard
density lb./cu. ft.	6 or under	6-8	8-9	9-10	10-12	14	16

favourably with most other woods-even oak. This is one of the main reasons why it is so suitable for aeromodelling, where strength is required with minimum weight. Many other materials which are as light as, or lighter than balsa, also fall down on this question of combining strength with lightness and cannot be used in small sections - expanded polystyrene, for ex-

The other great advantage of balsa is The other great advantage of balsa is the ease with which it can be cut or carved, and jointed with quick-drying cement. Having a fairly open structure, balsa cement impregnates and adheres strongly to balsa with the result that properly made glued joints are as strong or stronger than the wood itself. With balsa readily available in a wide range of sheet, strip and block sizes, very few sheet, strip and block sizes, very few tools are required for working balsa, either in solid form or for the assembly of built-up frames, etc.

At the same time, however, there are disadvantages. The balsa tree is very fast growing, reaching a height of 15 feet or more within a year and growing to be-tween 60 and 90 feet within the next six to ten years. After that time the tree begins to deteriorate and rot. As a result both the density and quality of the lumber obtained by felling balsa trees can vary enormously.

Note: The strength/weight ratio of 10 lb. cu. ft. Balsa is rated at 100 and the strength/weight ratios of other woods cal-

The actual density of balsa can vary from than 100 shows a performance inferior to 10 lb./cu. ft. (which is about the same as obeche). Practically all the commercial balsa available, however, falls within the range of 6 to 16 lb./cu. ft. with the overall average tending to run about 9-10 lb./cu. ft. The strength properties of bales vary in and also lack local stiffness. Height

Logically one selects the lightest grades for the lightly stressed parts (e.g. block wing tips, sheet fill-in, etc.) and the heavier grades for spars and longerons. Even here, however, practice can differ. Some modellers prefer to use very hard balsa for longerons and spars and keep weight to a minimum by reducing the actual size of the sections used. Others prefer to use a lighter grade and compensate for strength by using a larger

Both systems have their advantages and disadvantages. The use of hard grades and small sections actually gives the best overall strength to weight ratio (see Table 1).

TABLE 1. STRENGTH/WEIGHT FIGURES FOR VARIOUS WOODS

,	wood	stiff- ness	bend- ing	com- pression
	Balsa 8lb. Density	90	78	84
	10lb. Density	100	100	100
	14lb. Density	112	115	136
	Spruce	82	93	103
	Basswood	100	111	111
	White Pine	87	101	113
	Douglas Fir	80 62	97	114
8	Oak	62	90	6

culated accordingly. Thus a figure of less than 100 shows a performance inferior to

ft. The strength properties of balsa vary ing and also lack local stiffness. Using

larger sizes normally gives greater stiffness and local strength, although it is also Sheet filleasy to add excess weight as well unless the grade is carefully selected. Also if too light a stock is chosen in the interests of saving weight, the resulting structure may be weak. For most purposes, however, Table II can be used as a guide for balsa grade selection.

In practice, grade selection can only be made with reference to actual weights of individual sheets or strip lengths.

A tip to remember here is that as far as grading is concerned, suppliers of cut balsa tend to favour selection of the harder grades for the smaller sizes (or thickness) of strip and sheet as being easier to handle. Thus one is more likely to find mostly "hard" grade in 1/16 in. sq. for example, and more medium to soft in ½ in. sq. Similarly, the proportion of "soft" is likely to be higher in ½ in. and ½ in. sheet than in 1/32 in. or 1/16 in. sheet.

In point of fact "cut" is more impor-tant than appearance in the case of sheet tant than appearance in the case of sheet stock since this largely controls the rigidity, or strength of the sheet. And cut depends on the way the original lumber is cut from the log and then finally machined. If the "cut" is such that the annular rings effectively run across the thickness of the sheet (tangent cut) the sheet will be fairly flexible, edge to edge. If, on the other hand, the cut is such that of the sheet (radial or quarter-grain sawn), the sheet will be rigid. It will also be appreciated that a piece of lumber cut from either section A or section B of the log can have a final cut for turning into sheet which is either "tangent" or "quarter-grain shows up quite clearly by the speckled appearance of the surface. True quarter-grain sheet, in fact, would sheet which is either "tangent" or "quarter-grain sheet, in fact, would be to stiff to bend to even moderate cut is made from. If the section of lumber is "random cut" the grain direction is less clearly defined and irrespective of the direction of final cut the sheets will have direction of final cut the sheets will have intermediate properties between "tangent cut" and "quarter-grain."

TABLE II. RECOMMENDED APPLICATIONS OF BALSA GRADES

Application(s) Grade

ULTRA-LIGHT

Indoor free flight model airframes Indoor hand-launched gliders (all sheet) Solid (block) wing tips (all free flight models)

LIGHT

Sheet fill-in on built-up fuselages Semi-solid or hollow log fuselages (control line and radio control) Sheet covering (fuselages and wings) Wing leading edge sheeting Folding propeller blades All-sheet wings Cowling blocks

Sheet fill-in on larger models Large section leading and trailing edges All-sheet tail surfaces Solid sheet wings (gliders) Sheet-box construction (e.g. fuselages)

MEDIUM

Spacers on box fuselages stringers on streamlined fuselages Trailing edges Solid sheet wings (control line models) Longerons of generous section

MEDIUM-HARD

Wing spars of generous section Auxiliary wing spars Longerons Small section trailing edges Carved (freewheeling type) propellers

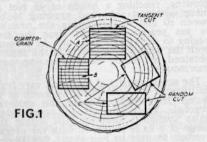
Main wing spars Longerons of small section Auxiliary spars of very small section

EXTRA-HARD

Inset leading edges on side sheet Wing mainspars of small section Building jigs

It is difficult to distinguish between ranthe annular rings run across the thickness of the sheet (radial or quarter-grain sawn), dom cut and tangent cut by appearance, dom cut and tangent cut by appearance, and the simple bending tests but

The stiffness or otherwise of spars is best judged by actual test—e.g. to obtain a pair of matched spars select two of equal weight and appearance. In this manner, and in the latter case in particular this may mean examining and testing a considerable number of individual strip lengths in order to arrive at a set of four more or less identical pieces. Many ex-perienced modellers, in fact, prefer to cut longerons and spars from sheet stock in



RIGHTI	TYPE OF CUTTING	WRONG!
	PARTING OFF CUTS - USE REALLY SHARP KNIFE OR RAZOR SAW FOR ALL LARGER SECTIONS	KNIFE WILL CRUSH
	STRAIGHT CUTS WITH THE GRAIN - USE METAL RULE AS GUIDE - CUT IN DIRECTION THAT GRAIN PULLS BLADE AGAINST STRAIGHTEDGE	BLADE WILL RUN OFF LINE
	STRAIGHT CUTS IN THICK SHEET- USE SAW WHERE POSSIBLE AND ALWAYS FOR EDGE TO EDGE CUTS ACROSS GRAIN	TEAR OR SPLIT
	FREEHAND CURVES - CUT IN DIRECTION WHERE GRAIN WILL PULL BLADE AWAY FROM SHAPE. CLEAN UP LATER AS NECESSARY	BLADE RUNS INSIDE OUTLINE
	FOR CURVE CUTS IN THICKER SHEET USE FRETSAWOR COPING SAW AND FINISH TO FINAL TRUE OUTLINE WITH SANDPAPER	DIFFICULT AND CUT NOT SQUARE
	CROSS GRAIN KNIFE CUTS - ALWAYS CUT FROM EDGE TO CENTRE NEVER OUTWARDS TO AN EDGE	EDGE WILL TEAR
	FOR CUTTING BLANKS-USE A STIFF BACK SAW AS FAR AS POSSIBLE	FRETSAW ETC WILL NOT CUT SQUARE

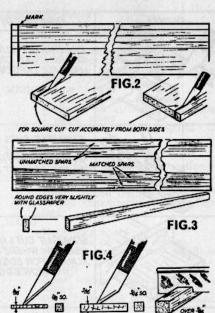
order to achieve complete matching. In general, however, this is only advantageous where relatively small sizes are involved—e.g. longerons not greater than 5/32 in. sq. section and spars not more than ½ in. thick. Cut longerons and spars in thicker sheet generally suffer from inaccuracies due to the difficulty of making long accurate "square" cuts in thicker sheets.

In cutting a set of matched longerons, the sheet should be marked before cutting (e.g. with a ball pen) so that the final lengths are identified end for end and used the same way round for a complete match.

plete match.

A modelling blade with a fine taper is usually best for cutting thin sheet. The same blade may also be used for parting off longeron and spacer sections up to kin. square; although some modellers find it easier to work with a less tapered blade.

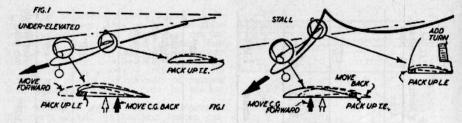
The main thing is to avoid stressing balsa sheet across the grain (in which direction it is weakest), so cross grain cuts should always be made from the edge inwards, rather than outwards towards an edge. Also, when cutting at an acute angle to the grain, make the direction of cut so that the grain will tend to pull the blade away from rather than into the component shape.



Handling Rubber Motors

	Yards	per l'	b.		We	ight in	oun	ces	
Size		ight		oot		ard		feet	12 yards
in. x 1/30in.		90	.0	28	1/	12	.2	8	1
tin. x 1/24in.	1	135	.0	35	1/	10	.3	47	11
%.in. x 1/30in.		130	.0	42	+		.4	2	11
%.in. x 1/24in.		100	.0	52	5/	32	5	2	11
lin. x 1/30in.		96	.0	56	1/	6	.5	56	2
- in. x 1/24in.		75	.0	70	1/	5	.6	95	21
TABLE II. MAXIM	IUM S	SAFE (I	ubric	ated)	R IN			R L	ENGTH
	IUM S	SAFE (L	ubric	ated)				R L.	ENGTH 24
		(I	ubric NU	ated) MBEI	R OF	STRA	NDS		
Rubber Size	8	(I 10	ubric NU 12	ated) MBEI 14	R OF	STRA	NDS		
Rubber Size	8 30	10 26	NU 12 24	ated) MBEI 14 22	R OF 16 20	STRA	NDS		
Rubber Size in. x 1/24in. in. x 1/30in.	8 30 33	10 26 30	NU 12 24 28	14 22 26	R OF 16 20 25	STRA 18 — 24	NDS 20 —	22 -	

Finding	the	the centre of gravity	of	gravi	.≥						
Model	Wing Span	g Wing n Chord	Area in²	T/P Span	T/P Chord	Area in²	Moment Length as measured between C.G.=		Formulate $\frac{\text{Formulate}}{7} + \frac{1}{8}$	Formulated Answer C.G. as Chord 3xT/P Area x Mount measured 7 + 8 x Wing Area on plan	C.G. as t measured on plan
Miles Student Free Flight Scale	22"	42"	92.4 in:	9.5"	2.95" mean	28 in ²	12.3"	= 4.2 7 1 2.05 1 2.05 1 1 1 1 1 1 1 1 1	$\frac{4.2}{7} + \frac{3 \times 28 \times 12.3}{8 \times 92.4}$ 2.05" behind L.E.	12.3 4 - 3.	1.97"
Timber S/C R/C	37.	374'' 74''	272 ini	164"	4" mean	66 in²	18.8"	$= \frac{7.25}{7} + \frac{7}{2.755}$	3 x 66 x 18.8 8 x 272	8.8	2.70
Comet 88 C/L Scale		i" 3.35" mean	98 in ²	8.1"	2.1" mean	17 in²	11.1	= 3.35 = 7 = 1.2 fr	3 x 17 x 11.1 8 x 98 om L.E. at n	$\frac{3.35}{7} + \frac{3 \times 17 \times 11.1}{8 \times 98}$ 1.2 from L.E. at mean chord	1.15"
Fluto Glider	45.5"	5" 4.75"	215 in²	17	3.	51 in²	.19.25"	= 4.75 = 7 + = 2.42"	3 x 51 x 19.25 1.74 x 215	9.25	2.48"
Rascal C/L Stunt	56	26" 5.5" mean	143 in	12"	2.44"	29.2 in²	9.5"	= 55 + 7 = 15	3 x 29.2 x 9.5 8 x 143	9.5	giving slightly less sen- sitive elevator 1.3"
Woodford Special (Glider)	55.5"	2 2	278 in*	20	4	80 in²	22.8"	= 5 7 + - - 714 +	3 x 80 x 22.8 8 x 278 - 2.46 = 3.175"	2.8	33"
Stomper Comp F/F	48	7.0	330 in²	26.5"	2	130 in²	27.2"	=8.25		$3 \times 130 \times 27.5 = 1 + 4.05$ $8 \times 330 = 5.05$ "	4.9"
Gasser Comp R/C	40	10	400 fui	16.8"	5.4"	91 in²	21.6"	10 = 7	3 x 91 x 21.6 + 8 x 400	.6 = 3.27"	Not shewn on plan



How to Trim Free Flight Models

All models will require a certain amount of individual adjustment, and for early success it is important that we go about this in a particular order.

STAGE 1

Failing information about the balance point (C.G. location) marked on the plan, the position can safely be worked out by the following

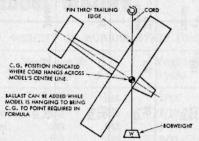


C.G. Distance in inches Measured from the Wing Leading Edge

Wing Chord (Ins)

3 x Tailplane Area x Moment Lgth. 8 x Wing Area

Moment length = Length between 1 chord of wing and 1 chord of tailplane. Moment length = Length between 2 chord of wing and 2 chord of tanpiane. Ensure that the C.G. comes at the point given in the formula, either by adding a small amount of ballast or by shifting some internal object such as batteries in the case of an R/C model. In all models we can take the C.G. more forward of the point indicated in the formula, and this is often done with the control line trainer in order to make the elevator control less sensitive. There is little advantage in doing this on F/F or R/C models. On no account must the C.G. be taken much for the refer than this point. An accurate check on C.G. position can be made by further aft than this point. An accurate check on C.G. position can be made by suspending the model by one wing as shown.



STAGE 2

Changes in setting the wing and tailplane angle (trim changes) basically cause changes in flying speed. The model's flying speed should be chosen, not only to suit the class of model, but also to fit in with the wing loading. The greater the wing loading, the greater the flying speed.

As a rough guide to speed the following table should be useful:

WING LOADING	TYPICAL SLOW	EST FLYING OR
(Total weight divided by wing area)	GLIDING	G SPEED
4 oz. per square foot 8 oz. " 10 oz. " 12 oz. " 16 oz. " 20 oz. "	Span 3ft. or less 15 m.p.h. 18 " 194 " 21 " 24 " 27 "	Span 3ft. 6in. or over 12 m.p.h. 144 ", 16 ", 174 ", 20 ", 224 ",

In practice the model must be made to fly slightly faster than these speeds.

Choose a calm day for initial flights and test glide over grass. Launch the model as steadily as possible slightly downwards at a speed somewhat faster than that given in the table. If the model dives, increase the wing incidence or reduce the tailplane of the model dives, increase the wing incidence or reduce the tailplane. incidence by packing. If the model 'zooms' up and stalls, try launching a little slower. If it still appears to stall, reduce the wing incidence or increase the T/P

Make all test changes in small amounts and observe results carefully and learn! Do not try to fly the model slower than the above speeds, it won't. On no account shift the C.G. position more than a small amount aft of that calculated in Stage 1.

STAGE 3-FOR POWER MODELS

For first power flight use just enough fuel to get the model airborne 30-50 ft. (10-15 seconds) for sports F/F or 50-100 ft. (20-30 seconds) for single channel R/C. it is only from this height that one can judge the glide properly. Do not be too mean on the power. A model that just hovers at launch height can be a danger to many. Remember that low engine revs. don't mean a low flying speed, but rather

FOR GLIDERS

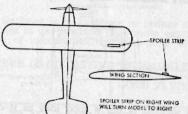
For the greatest endurance the wing and T/P incidences will not be set for the slowest speed (where the model is just below the stalling point) unless there are terminals about. This set up, in spite of slow forward speed, will result in a high rate of sink due to a poor gliding angle. A slightly faster trim should be adopted, i.e. less wing incidence or slightly more T/P incidence, where the gliding angle will

Causing the model to turn, either by (i) a little rudder deflection or, (ii) a small aileron type trim tab can easily aid endurance and troubles caused by over elevation. Make the aileron type trim tab of the upturned variety on the wing we need to drop rather than a downturn tab on the rising wing, i.e. to induce a left turn place upturned tab on trailing edge of left wing and not a downturned tab on the



A piece of thin aluminium or thin stiff card attached with Evo-stick can often make an excellent trim tab.

Another method of trimming a turn on the model and an alternative to the other two is to use a spoiler. The spoiler can take the form of a piece of inch square strip situated on the upper surface of the wing between mid-chord and threequarter-



The spoiler not only yaws the model slightly due to increased drag on that particular wing, but also destroys some of the lift of that wing. This causes the model to bank and so turn smoothly. This third method for adjusting a turn is perhaps one of

As an example: a spoiler 3 in. long and 1 in. square is sufficient to cause quite a steady turn on the average 5 ft. span model.

STAGE 4

Most power models will need some engine downthrust and sidethrust if a well balanced flight is to be maintained.

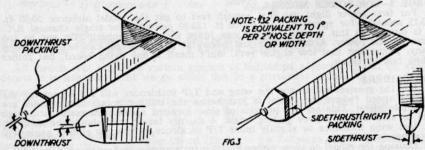
Downthrust is needed to 'kill' or reduce power stalling. Excess downthrust results in a higher flying speed while the motor is running and should only be used

Sidethrust is used to balance out the turning effect of motor torque. The final angle required for both sidethrust and downthrust must be determined with the engine running at its peak revs, on the particular propeller being used.

On the F/F model the left turn produced by torque is often not completely neutralised by the full quota of sidethrust. The aim being a gentle circling turn to

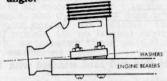
the left under power.

Some short-nosed models such as many scale models and most that have little or no dihedral will require a large sidethrust angle, perhaps 5-10 degrees, whereas the long-nosed types may only require say, 1 or 2 degrees. The greater the wing dihedral or wing sweepback the less sidethrust will be needed. Some low winged models, due to the lower dihedral effect present, will often require fairly large sidethrust angles.

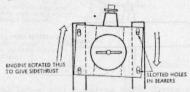


We obtain downthrust and sidethrust on the rubber model by packing the propeller nose block.

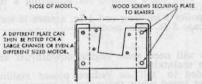
On the power model washers can be placed under the engine mounting lugs to introduce a downthrust "angle."



For small angles of sidethrust the bolt holes in the engine bearers can be elongated, so allowing the engine to be slewed round in its mounting. Undersized "sloppy" bolts can also give a similar effect.

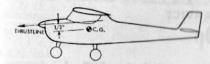


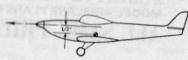
For large angles this method is not a good idea as it considerably reduces the strength of the engine bearers. It is always a better plan to fix the engine bearers to the sides of the fuselage and mount the engine on a fibre board or aluminium plate with an angled cut-out for the engine. This is screwed to the bearers by wood screws.



Downthrust does not necessarily manifest itself as an angle of engine tilt. It does, however, show up as a thrust line passing somewhere above the C.G.
Usually a distance of about 1 in. is sufficient for all sizes of model. On the low-

wing model, the C.G. comes low down and hence little or no downthrust angle is needed.





It can thus be seen that another way of producing downthrust effect is to lift the engine higher up. On the model with a very high mounted engine it may even be necessary to point the engine upwards in order not to increase the thrust off-set



STAGE 5

The model should now be able to fly well, in which case settings can be left alone. However the F/F or R/C model, although at first appearing O.K. on short flights, may subsequently develop a tighter and tighter turn on the longer flights. This terminating in a spiral dive in either direction. The cure for this is to increase the dihedral or REDUCE the size of the fin. Remember an over large fin is conducive to spiral instability. This applies to all models instability. This applies to all models.

Once a satisfactory glide has been achieved leave the C.G., wing and tailplane incidence alone. Do all adjustments to the power on state by altering the engine as

FURTHER NOTES

On some models, mainly gliders and similar types with high aspect ratio wings, wing WASHOUT is used. Washout refers to the twisting of the wings in such a way so as to produce less incidence, or angle of attack, at the tips than at the root of the wing, i.e. the same effect as lifting the trailing edge of the wing at the tips only.



The idea behind washout is to eliminate or reduce the risk of wing tip stalling. It is always a good idea to use washout on a radio controlled glider or slope soarer to reduce the chance of uncontrolled spinning if a wing tip stall is accidentally

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M.A.N. 1A Arrowhead:-C/L stunt and combat .049 (1cc) 16 in. Schoolboy:-R/C single channel, kick up elevator .010 (.2cc) 36 in. Pee Wee B:-F/F high thrust line duration .010 (.2cc) 24 in.

N. A. Harvard:-C/L profile scale .020 M.A.N. 30A (.32cc) 16½ in. M.A.N. 10A

Dizzy Bug:-C/L F.A.I. speed model .15 (2.5cc) 211 in. Wakefield Trainer:-F/F three quarter size trainer 20 in. The Big D:-F/F open indoor microfilm

Long Gone:-C/L class 'B' team racer .29 (.5cc) 291 in.

The Hot Canary:-F/F pylon model .010 -.020 (.2-.32cc) 33 in.

Whittman Super Tailwind:—F/F scale home built .049 (.8cc) 32 in.

Topkick:—F/F high performance A/1 tow-line glider 471 in Twin's Special:-C/L proto speed winner .29 (.5cc) 36 in. M.A.N. 14A

U-Name-It:-C/L stunt "newlook" model M.A.N. 42A .35 (.6cc) 55 in.
Fluff:—F/F ultra simple \(\frac{1}{2}A \) model .049 (.8cc) 48 in.

M.A.N. 18A X-80:-F/F high thrustline .049-.09 (.8cc

—1.5cc) 473 in. Convair XP 31:—C/L scale .15—.19 (2.5— M.A.N. 45A 3.5cc) 29 in. M.A.N. 20A

F.A.I. Viking:-F/F high thrustline F.A.I. power .15 (2.5cc) 65 in. Target:—C/L Flying saucer 8 in. diam. .010 (.2cc)

Bulls-eye:—C/L flying saucer 19 in. dia. .15 (2.5cc) M.A.N. 22A

Weekend Wonder:-C/L easy construction stunter .29 (.5cc) 38 in.
Red Coat:—F/F Wakefield Rubber 50 in. Hi-Lo-Duo:-F/F pair of rubber models indoor or out 20 & 19 in.

Moonbeam:-F/F tractor pusher rubber flier 20 in.

Two-Ber:-F/F Wakefield or open rubber model 441 & 561 in. Chameleon:—R/C single channel semi scale 06-09 (.1cc-5 cc) 38 in.

Pana Tana:-C/L F.A.I. team racer .15 (2.5cc) 37 in.

M.A.N. 25A Hughes H1 Racer:-C/L scale model. throttle control .60 (10cc) 44 in. Corby:-F/F semi scale sports flier .020 (.32cc) 261 in. Aeronca Defender:-F/F scale rubber 27

Raunchy:-C/L combat model .35 (6cc) Mauler:—C/L Carrier deck landing .35 (6cc) 29 in. Poncelet Vivette:-F/F semi scale sports .020 (.32cc) 30 in.

Dadson:—C/L foam wing sportster .049 (.8cc) 24 in.

O.K. Two:-0.2 R/C twin engine .020 32cc) single channel 38 in. (2.5-3.83cc) 61 in.

M.A.N. 38A Swamp Box:—R/C single channel .09—
.15 (1.5—2.5cc) 48 in. LI'l Duster:-C/L 1A speed model .049 Chipper II:-F/F sports, all sheet, .020 (.32cc) 30 in.

U-All- 2:—R/C "Galloping Ghost" .020 (.32cc) 50 in. Belly Dancer:-F/F Wakefield rubber 481 Two Tube:--C/L twin boom sport .049

(.8cc) 27½ in. Morane Saulnier:-R/C aerobatic glider

Grabber:-F/F Wakefield or open rubber model 501 in.

M.A.N. 50A Santa Maria:-R/C single channel scale .09 (1.5cc) 42 in. Sundowner:—F/F open power .15—.23 (2.5—3.83cc) 61 in.

Blue Bonnett:-C/L open speed .15 (2.5cc) 16½ in. M.A.N. 56A

Lockheed Vega:—R/C detailed free flight scale for .049 (.8cc) engines. Suitable for single channel. Span 43 in. Traveller:-Indoor microfilm covered flier 18 ins. span by Bud Tenny. M.A.N. 57A

Ryan PT-22:-C/L scale trainer easy to fly .35 (6 cc) 50 in. Ringer:-F/F A contest model .049 (.8 cc) 42 in.

M.A.N. 59A Viper II:—C/L proto speed, mono line
29 (5 cc) 24 in. Harbinger:-F/F A/2 twice in U.S.A. team by N. Ingersoll, 82 in.
Mayfly: R/C single channel trainer .09

(1.5 cc) 36 in. M.A.N. 60A Aeronca C-3:-R/C scale s. chan .09

(1.5 cc) 53½ in.
Pat-1:—C/L basic trainer .049 (.8 cc)

Javelin JC:-F/F R.O.W. 1A pylon .049 (.8 cc) 50 in.

M.A.N. 61A Plane Jane:—R/C low wing multi .60 (10 cc) 70 in. Furstep:-F/F cabin rubber trainer 24 in. Little Pronto:—C/L basic trainer .049

M.A.N. 65A in. Road Runner:-C/L stunter .35 (6cc)

Stratolark:-F/F open rubber, contest model 52 in.

M.A.N. 66A Oily Bird:—R/C rudder and elevator control .29..60 (5-10cc) 56 in. Prop Busters:-C/L profile trainer .15-.29 (2.5cc) 27 in.

M.A.N. 67A Hoptee:—C/L hot rat catcher .29-.40 (5-6.5cc) 27 in. Demoiselle:—F/F scale sport .20 engines, M.A.N. 85A

Daddy Rabbit:-R/C multi aerobatic .60 (10cc).

M.A.N. 69A Trailblazer:-F/F 1A pylon contest .049 (8cc) 46 in.
Bitty Viper:—C/L Proto speed model .049 (8cc) 181 in. Oscillator:—R/C single channel aero-

batic .19 (3.5cc) 47 in. M.A.N. 72A Rearwin Sportster:-1/10th scale R/C sportster 42 in., .049 (.8cc). GRMZPF-8—Rat racer, 36 in. .040 (6.5cc).

Small Wonder:-Jetex 50 pusher, twin boom, 17 in. M.A.N. 73A

Nova Too:-Multi-motor, multi R/C 58 in. .15-.45 (2.5-7.5cc). DH 85 Leopard Moth:—Rubber scale,

geared motor 421 in. Rodney Riser:-Stick type rubber model

354 in. Mox-Nix:—Sports C/L, twin fins. 381 in. M.A.N. 88A .19.25 (3.2-4.5cc). Mirage I

Fairchild P.T.19:-R/C scale trainer, multi or single 43 in. .15-.25 (2.5-4.5cc).

Kwik-Fli:-1967 Phil Kraft's World multi champion 60 in. for .60 cu in. (10cc)

Northrop A17A Nomad:-C/L scale Army dive bomber 461 in. 35-.45 cu. in. Sophisticated Lady:-Chuck glider 191 in.

M.A.N. 77B

C/L Chipmunk:-Semi-scale 56 in. span stunter by Jim Van Loo for 0.35 (6.5cc).

Witch Doctor 800:—Jim Clem's high thrusting Clas C. (for hot .40's) U.S. record holding free flight power

Origo:-Shoulder wing sports R/C single for 1 cc by Hoh Fang-Chiun (two plans on one sheet) 10/- incl. post.

M.A.N. 81A Yak P or PM:-R/C scale model of Russian aerobatic aircraft, for .60 cu. in. (10cc motors).

M.A.N. 81B All American Eagle:-Modern styled C/L stunter for .35 cu. in. motors. By D.

Dixle Special:-Quarter Midget R/C pylon racer for .10-15 cu. in. motors (1.5-2.5cc).

M.A.N. 82B

FA 200 Aero Subaru:-Semi scale multi R/C for .60 cu. in. (10cc) motors.

De Havilland Mosquito:-C/L profile scale for two .049 cu. in. (.8cc) motors.

M.A.N. 83A Bonzo:-U.S. Nats winning free flight scale of famous racer.

Kestrel:-Single or multi R/C soaring

Nemesis:-Sleek multi aerobatic model of 74 in. wing span for .45-.60 cu. in.

motors featuring a foam wing.

Ryan ST:—A free-flight profile fuselaged version of the famous Army trainer, using .020-.024 engines with a wing span of 30 in.

Curtiss Triad:-C/L scale, .15 (2.5cc) 44 in.

Piper Pawnee:-C/L scale .19-.29 (3.5-5cc) 36 in. M.A.N. 87A

C.47:—Control line profile version of this twin-engined transport aircraft. Wingspan 35in., and using two .049

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M.A.N. 90B

Continental 600:—58 in. span Formulae II prototype R/C pylon racer for 40 cu. in. engines, 600 sq. in. wing

Curtis XP-55 Ascender:-Control-line profile version of this unusual canard aircraft, for .049 cu. in. (.8cc) motors, 20 in. span. M.A.N. 91A

Thermus:-R/C glider of 99 in. wing span, with optional power pylon for .09 (1.5cc) engine.

Shorthorn:-Class 'A' free-flight power model of 66 in. span, for 2.5cc engines. M.A.N. 92A

Fokker D VIII:-31 in. span controlline scale model for .19-.23 cu. in. engines. Osprey:--79 in. span, high aspect ratio

glider with anti-vortex tips.

M.A.N. 94A

Eyeball:-Hot R/C multi aerobatic model for 10 cc engines, and featuring a foam

Martin-Baker MB. 2:—Control-line scale model of 23 in. span, for 1.5-2.5 cc

Stratomax:-Unlimited rubber duration model of 47½ in. span.

M.A.N. 96A

Bellanca 300:—Semi scale control line stunt model of this attractive aircraft.

53in. span, for 35 cu. in. motors.

Porterfield Collegiate:—39in. span, scale free-flight version of 1940 American light aircraft. Uses .049 cu. in. engine (.8cc).

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OBJECTIVE

To provide a simplified form of Team Racing by racing models conforming to a simple specification in heats, against the clock, MODEL SPECIFICATION

Models must be of an actual Goodyear Racer, to a scale of 11/2" = 1'0". The plan and side elevation outlines must be within plus or minus 5% of true scale.

No engine cowling permitted.

Tail area may be increased up to a maximum of 25% of the wing area.

One or two wheel undercarriages may be used.

Models must be finished in a scale like manner, including racing numbers, and S.M.A.E. number.

Maximum engine capacity 3,5 c.c.

There are no restrictions with regard to the type of fuel tank used.

Distance between centre of control handle and centre line of model shall be 52'3" plus/minus 3". Minimum line dia .012".

CONDUCT OF CONTESTS

All models, complete with control lines and handle, shall be required to pass a general safety inspection immediately prior to flying in a race. All mechanics must wear protective headgear.

The pilot shall be the entrant, and there shall be a maximum of two

mechanics per model.

The number of laps flown shall be:-Heats and semi finals 80 laps Finals 160 laps

Models must make a minimum of one pit stop in heats and semi finals, and a minimum of three pit stops in finals.

Prior to each heat a two minute warming up period shall be allowed. All races shall have a Le Mans start, with all pilots and mechanics standing at the centre of the flying circle.

When flying all pilots shall walk around within a 5ft radius circle. No whipping shall be permitted

During all pit stops models must be attended to at any one of the segment marks, on the outer circle of 19.6 metres radius

How to Start a Glow Plug Engine

THE GLOWPLUG form of ignition for an internal combustion engine is one of the very original principles, used before either diesel or the spark ignition systems.

Our glow is provided by a wire element, usually platinum, which becomes incandescent when short circuited in a 1.5 volt (for U.S.A. plugs) or 2.2 volt (British once the engine is firing, so that the short circuit can be removed and the engine as a self-contained and the engine when thoroughly prepared when the piston fit. runs as a self-contained unit.

Plugs vary in construction, even come integral with the cylinder head, and the most common means of fitting the wire element is to have it in a tightly wound coil of about 5 to 7 turns, Platinum-Iridium wire of about .015 diameter. Current drain on the booster battery is high, being around 2 to 5 amps, so it is better to remove the battery terminal connection as soon as the engine fires, or for any period when the engine is not actually being flick started. Dry batteries of the large bell-cell type, arranged in parallel pairs, are satisfactory.

To set the engine ready for starting, mount it securely in a test stand, arrange a fuel supply with the tank on a level with the crankcase, and fit a prop at the quarter to three" position as on a clockface, securely tightening the prop-nut. Now blow through the fuel supply tube with it connected only to the needle valve body, and adjust the needle valve control until a steady hiss is heard at the jet in the centre of the intake tube.

Next remove the plug and connect with the battery. One lead to the top of the plug, the other to the plug body, or earth if the plug is left resting by its body on the engine cylinder head. There is no need for concern over polarity, just as long as minute or so, stop it and one lead cannot touch the other, and that head bolts while still warm.

the alligator clips are safely spaced on the plug, then the element should glow bright orange. Dull red will indicate a poor contact, low battery or current leak in the circuit. If the plug glows rapidly to white heat, disconnect immediately as it is most probable that there is too much current probable that there is too much current going through the element and there is a danger of blowing out and fusing unless a resistance is fitted. American plugs on lead acid accumulators are specially susceptible. Once satisfied that the glow is present, we should inject a little of the special fuel through the plug hole, fit the plug and flick over a few times without connecting the plug. A drop of fuel in connecting the plug. A drop of fuel in the intake also helps this way to free up

When thoroughly prepared and ready to start, connect the fuel line to the tank which should be filled, do not choke the carburettor-and then hook up the plug immediately prior to flicking over. Now flick hard: the engine should fire, continue to run, sucking fuel through the tube from the tank and giving the impression of running rich. Allow to pick up for five seconds or so, disconnect the lead off the top of the glowplus (the other can the top of the glowplug (the other can be more or less permanent for test purpose on a mounting lug or other convenient earthing point), then watch the characteristics.

The engine should be rather rich for the first run, not two-stroking but nevertheless operating smoothly with copious fumes from the exhaust and lots of noise. To get the engine to two-stroke, simply lean out the mixture by screwing the needle valve into its body, quarter turn at a time and waiting a moment between adjustments to check the effect in revolutions per minute. To stop the engine, simply screw the needle valve fully home and the effect will be that the engine speeds up to a peak speed, dies off and stops fairly abruptly through the fuel starvation. This will give the experience needed to identify too lean a fuel setting

Run the engine rich for the first 30 minutes of the life and of the first 30 minutes.

minutes of its life, and after the first minute or so, stop it and tighten the

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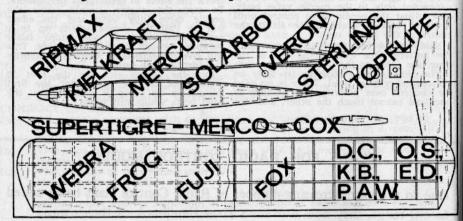
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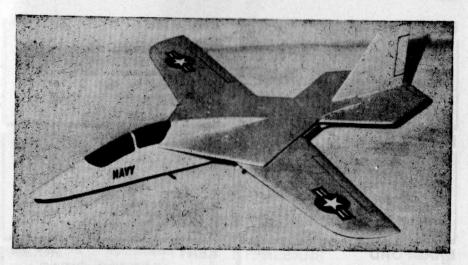
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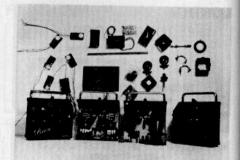
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	2149	D.H.88 Comet	A	10p
۲	*2690	D.H.89A Rapide	A	10p
	2834	D.H. 94 Moth Minor	J	10n
	2167	D.H.106 Comet I	N & M	35p
	2840	D.H.108 Swallow	J	TUD
	2168	D.H.110	B & L	20p
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	2256	Minor	J & K	20p	2682	RAF. Training Glid	ers N	20m
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		MARTIN BAKER		0.855		fect and Sedburgh	THE WAY	
	2889	MB5	J & H	20p	1 2000	GENERAL		
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	2889	Hobby MI3	J&H	20p	CANA	DIAN		
	2063	M 21 Hawk Speed	ART	Jup	2033	Avro Canada CF. 100B	B&L	20p
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		HUNTING-PERCIVA	AL AG	ZUP	CZEC	HOST OVANTAN	B&L	20p
	2894	Mew Gull E3H	J& H	20n	2902	Avia BH33		20-
	2301	Mew Gull P.6	A	10p	2839	Super Aero 45	ART	20p
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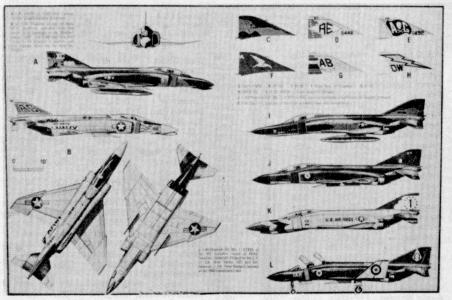
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Eureka Everest Executor Fairy Swordfish Fairy Swordfish	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X	40p 40p 45p 50p 50p	8/- 9/- 10/- 10/- 8/-	1/56 10/58 9/58 5/63 12/53 3/54	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner	PET/686X PET 401X PET/438X PET/271X PET/793X	60p 40p 45p 40p 50p	8/- 9/- 8/- 10/-	12/50 7/51 10/47 7/61
Eureka Everest Executor Fairy Swordfish	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X	40p 40p 45p 50p	8/- 9/- 10/-	1/56 10/58 9/58 5/63 12/53 3/54 1/62	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X	60p 40p 45p 40p 50p 40p	8/- 9/- 8/- 10/- 8/-	12/50 7/51 10/47 7/61 1956
Eureka Everest Executor Fairy Swordfish Fairy Swordfish	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X	40p 40p 45p 50p 50p	8/- 9/- 10/- 10/- 8/-	1/56 10/58 9/58 5/63 12/53 3/54	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI H.M.300 Horsa II	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X MA/213X PET/332X	60p 40p 45p 40p 50p 40p 40p 50p	8/- 9/- 8/- 10/- 8/- 10/-	12/50 7/51 10/47 7/61 1956 6/65 8/49
Eureka Everest Executor Fairy Swordfish F.A.I. Team Race Fantasm	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X erMA/361X	40p 40p 45p 50p 50p 40p 30p	8/- 9/- 10/- 10/- 8/- 6/-	1/56 10/58 9/58 5/63 12/53 3/54 1/62	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI H.M. 300 Horsa II Hot Canary	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X MA/213X PET/332X PET/525X	60p 40p 45p 40p 50p 40p 50p 30p	8/- 9/- 8/- 10/- 8/- 10/- 6/-	12/50 7/51 10/47 7/61 1956 6/65 8/49 9/53
Eureka Everest Executor Fairy Swordfish Fairy Swordfish F.A.I.Team Raci Fantasm Farthing Micro-	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X erMA/361X MA/164X	40p 45p 50p 50p 40p 30p 30p	8/- 9/- 10/- 10/- 8/- 6/-	1/56 10/58 9/58 5/63 12/53 3/54 1/62 10/53	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI H.M.300 Horsa II Hot Canary Humbug	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X MA/213X PET/332X PET/525X PET/959X	60p 40p 45p 40p 50p 40p 40p 50p 30p 20p	8/- 9/- 8/- 10/- 8/- 10/- 6/- 4/-	12/50 7/51 10/47 7/61 1956 6/65 8/49 9/53 2/68
Eureka Everest Executor Fairy Swordfish F.A.I. Team Raci Fantam Farthing Micro- Film	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X erMA/361X MA/164X 1/223X	40p 45p 50p 50p 40p 30p 30p 25p	8/- 9/- 10/- 10/- 8/- 6/- 5/-	1/56 10/58 9/58 5/63 12/53 3/54 1/62 10/53	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI H.M. 300 Horsa II Hot Canary	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X MA/213X PET/332X PET/525X	60p 40p 45p 40p 50p 40p 50p 30p	8/- 9/- 8/- 10/- 8/- 10/- 6/-	12/50 7/51 10/47 7/61 1956 6/65 8/49 9/53
Eureka Everest Executor Fairy Swordfish Fairy Swordfish F.A.I.Team Race Fantasm Farthing Micro- Film Feather Weight	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X erMA/361X MA/164X 1/223X 1/309X	40p 40p 45p 50p 50p 40p 30p 30p 30p	8/- 9/- 10/- 10/- 8/- 6/- 6/- 8/-	1/56 10/58 9/58 5/63 12/53 3/54 1/62 10/53 1947 1/49	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI H.M.300 Horsa II Hot Canary Humbug	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X MA/213X PET/332X PET/525X PET/959X	60p 40p 45p 40p 50p 40p 40p 50p 30p 20p	8/- 9/- 8/- 10/- 8/- 10/- 6/- 4/-	12/50 7/51 10/47 7/61 1956 6/65 8/49 9/53 2/68
Eureka Everest Executor Fairy Swordfish F.A.I.Team Race Fantasm Farthing Micro- Film Feather Weight Fevair	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X MA/164X 1/223X 1/309X MA/ 336X	40p 40p 45p 50p 50p 40p 30p 30p 25p 40p 40p	8/- 9/- 10/- 10/- 8/- 6/- 6/- 8/- 8/-	1/56 10/58 9/58 5/63 12/53 3/54 1/62 10/53 1947 1/49 10/60	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI H.M.300 Horsa II Hot Canary Humbug	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X MA/213X PET/332X PET/525X PET/959X	60p 40p 45p 40p 50p 40p 40p 50p 30p 20p	8/- 9/- 8/- 10/- 8/- 10/- 6/- 4/-	12/50 7/51 10/47 7/61 1956 6/65 8/49 9/53 2/68
Eureka Everest Executor Fairy Swordfish F.A.I.Team Raci Fantasm Farthing Micro- Film Feather Weight Fevair Fifteen	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X MA/164X 1/223X 1/309X MA/ 336X PET/521X	40p 40p 45p 50p 50p 40p 30p 30p 25p 40p 40p 50p	8/- 9/- 10/- 10/- 8/- 6/- 5/- 8/- 10/-	1/56 10/58 9/58 5/63 12/53 3/54 1/62 10/53 1947 1/49 10/60 8/53	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI H.M.300 Horsa II Hot Canary Humbug Hussie	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X MA/213X PET/332X PET/525X PET/959X PET/440X	60p 40p 45p 40p 50p 40p 50p 30p 20p 30p	8/- 9/- 8/- 10/- 8/- 10/- 6/- 4/- 6/-	12/50 7/51 10/47 7/61 1956 6/65 8/49 9/53 2/68 8/51
Eureka Everest Executor Fairy Swordfish F.A.I.Team Race Fantasm Farthing Micro- Film Feather Weight Fevair	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X MA/164X 1/223X 1/309X MA/ 336X	40p 40p 45p 50p 50p 40p 30p 30p 25p 40p 40p	8/- 9/- 10/- 10/- 8/- 6/- 6/- 8/- 8/-	1/56 10/58 9/58 5/63 12/53 3/54 1/62 10/53 1947 1/49 10/60 8/53	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI H.M.300 Horsa II Hot Canary Humbug	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X MA/213X PET/332X PET/525X PET/450X PET/440X	60p 40p 45p 40p 50p 40p 50p 30p 20p 30p	8/- 9/- 8/- 10/- 8/- 10/- 6/- 4/- 6/-	12/50 7/51 10/47 7/61 1956 6/65 8/49 9/53 2/68 8/51
Eureka Everest Executor Fairy Swordfish F.A.I.Team Raci Fantasm Farthing Micro- Film Feather Weight Fevair Fifteen	D/616X PET/711X G/706X MA/379X FSP/535X MA/178X MA/164X 1/223X 1/309X MA/ 336X PET/521X	40p 40p 45p 50p 50p 40p 30p 30p 25p 40p 40p 50p	8/- 9/- 10/- 10/- 8/- 6/- 5/- 8/- 10/-	1/56 10/58 9/58 5/63 12/53 3/54 1/62 10/53 1947 1/49 10/60 8/53	Heatwave Helides 7 Hells Bells Hi-Ball Hi-Liner HKI H.M.300 Horsa II Hot Canary Humbug Hussie	PET/686X PET 401X PET/438X PET/271X PET/793X FSP/637X MA/213X PET/332X PET/525X PET/959X PET/440X	60p 40p 45p 40p 50p 40p 50p 30p 20p 30p	8/- 9/- 8/- 10/- 8/- 10/- 6/- 4/- 6/-	12/50 7/51 10/47 7/61 1956 6/65 8/49 9/53 2/68 8/51

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Invicta	G/270X	40p	8/-		Miles M.35	FSP/576X	50p	10/	- 2/55	Note					Thistledown	1/278X	30p	6/-	12/47
Iolanthe	G/296X	50p	10/-	7/48	Miles Student	J/629X	40p	8/							Time Traveller	CL/642X	25p	5/-	12/56
lota	PET/452X	30p	6/-	AMA/51	Minicano	PET/882X	30p	6/		PLANS NOT II	LLUSTRATED				T.K.4	CL/411X	40p	8/-	1/51
Itzme	D/147X	40p	8/-	1/42	Mini Egal	G/822X	30p	6/		No. of the last of	1				Tonto II	G/500X	50p	10/-	2/53
					Missel Thrush	FSP/404X	50p	10/		The state of the s					Topsy	D/420X	50p	10/-	3/51
					M.T.Sportster	MA/239X	40p	8/							Tototol	PET/598X	50p	10/-	8/55
				- 31	Nakajima B5NI		75p	15/		S.A.T.U.	G/400X	50p	10/-	12/50	Tribute	G/200X	50p	10/-	1944
					Natzneez	PET/221X	50p	10/		Saab 18A	MA/300	40p	8/-	2/59	Troyka	FSP/549X	50p	10/-	7/54
Jabberwocky	CL/514X	30p	6/-		Nebula	G/552X	50p	10/		Sailplanes	G/558X	35p	7/-	8/54	Trump Card	D/430X	45p	9/-	6/51
Jaded Maid	PET/427X	50p	10/-	5/51	Nimbus	G/304X	50p	10/		Saracen	PET/830	40p	8/-	12/62	Tubby	MA/358X	30p	6/-	1961
Jader 60	G/475X	50p	10/-	6/52	No 96A	G/814X	75p	15/-		Scalded Kitten	PET/352X	40p	8/-	AMA/49	T.V.T.8	WAY SOOK	300	0/-	1301
Jay	D/151X	25p	5/-	11/42	Nord 2	G/409X	50p	10/-		Scamp	MA/173X	40p	8/-	1/54	Strijkplank	U/345X	40p	8/-	12/49
Jinx	G/314X	50p	10/-	3/49	Number Eight	G/566X	50p	10/-		Schooler	MA/299X	30p	6/-	1/58		J/448X	30p	6/-	10/51
Joss Stick	MA/282X	25p	5/-	5/58	Number Nine	MA/366X	40p	8/-		Scramble	CL/454X	30p	6/-	11/51	Twizzler Tyro Mk.III	MA/384X	30p	6/-	9/63
Juggler	CL/389X	40p	8/-					0,	1102	Scylla	G/246X	40p	8/-	12/46	Tyro Trainer	CL/295X	30p	6/-	7/48
Jum Bux	PET/1008X	100000000000000000000000000000000000000	4/-	MA'65						Seagull	WP/190X	40p	8/-	1944	Charles of White	MA/393X	40p	8/-	7/64
Jumpin' Bean	PET/572X	45p	9/-	1/55						Sea King	WP/689X	75p	15/-	3/58	Tzigane	INIA/ 393V	400	0/-	77134
Junior Miss	D/449X	30p	6/-	10/51	Olympian	PET/789X	50p	10/-	6/61	Sea Nymph	WP/542X	45p	9/-	3/54					
	The country of				tracks and the	1207011111	oop		0,01	Seraph	G/533X	35p	7/-	12/53	Upstart	D/556X	50p	10/-	8/54
									THE REAL PROPERTY.	Short Scion	FSR/193X	50p	10/-	1944	Ursa	G/450X	50p	10/-	10/51
						1				Shrike	CL/634X	40p	8/-	9/56	0.20	G, 450%	Joh		10,01
					Pander EG100	FSP/738X	50p	10/-	9/59	Shrimp	PET/300X	30p	6/-	9/48					
Kapitan	PET/247X	40p	8/-	6/47	Paragon	PET/753X	40p	8/-	4/60	Silver Patrol		and the same							
Karin	MA/373	30p	6/-	11/62	Pathfinder	PET/513X	50p	10/-	6/53	Mk, 1a	G/277X	40p	8/-	12/47		MA/401X	40-	8/-	4/65
Karoro	PET/496X	45p	9/-	1/53	Patron	MA/403X	40p	8/-		Skylark II	D/273X	25p	5/-	11/47	Valerie II		40p	8/-	1/52
Khamseen	G/610X	40p	8/-	11/55	Patches	G/817X	50p	10/-	4/62	Slick Stick	PET/550X	50p	10/-	6/54	Veronica	G/459X	40p		1946
King Falcon	G/154X	50p	10/-	1942	P.D.Q.	1/647X	40p	8/-	2/57	Smokey Joe	J/399X	40p		AMA/50	Vickers Viking	RTP/237X	60p	12/-	1940
Kingfisher	FSR/218X	40p	8/-	8/45	Pee Wit	PET/779X	40p	8/-	2/61	Snark	G/469X	50p	10/-	4/52	Vickers Viking	DTD/220V	E0-	10/	1946
Kirby Kite	G/155X	40p	8/-	1942	Pegasus	U/396X	40p	8/-	11/50	Snorky	PET/424X	40p	8/-	4/51	Motor	RTP/238X	50p	10/-	1940
Kittiwake	WP/757X	50p	10/-	5/60	Pelican	G/622X	50p	10/-	3/56	Sokol	G/199X	75p	15/-	1944	Vindscreen	J/467X	45p	9/-	3/52
Kolibrik	PET/245X	40p	8/-	8/46	Penumbra	U/739X	75p	15/-	8/59	Sorcerors					Viper II	CL/350X	40p	8/-	1/50
Komet	PET/508X	50p	10/-	5/53	Percival Mew-	F001404				Apprentice -	CL/515X	30p	6/-	6/53	Virago	PET/206X	£1	0/-	1944
					Gull.	FSR/170X	25p	5/-	1942	Speed King	CL/284X	40p	8/-	2/48	Vulcan	U/538X	50p	10/-	1/54
				, Hayer	Percy III	D/171X	30p	6/-	8/42	Sporty	PET/367X	40p	8/-	2/50	Vultan	0/5367	SOP	10/-	1754
					Peregrine	PET/547X	45p	9/-	5/54	Stability									
					Peres I	G/242X	60p	12/-	8/46	Gremlin.	U/252X	40p	8/-	12/46					
Ladybird	D/287X	40p .	8/-	4/49	Pete	D/172X	30p	6/-	7/42	Star Dust	PET/667X	50p	10/-	7/57		CARCY			F/F4
Ladybird Special		40-	01 1	AMA/50	Pete's Plank	U/429X	40p	8/-	5/51	Stuntster	CL/362X	40p		AMA/48	Walthew A/2	G/426X	40p	8/-	5/51
La Paloma	D/639X	40p	8/-	10/56	Phoenix	PET/414X	50p	10/-	9/58	Sugarfoot	PET/381X	40p	8/-	6/50	Walthew Rubber	D/390X	40p	8/-	8/50
Last Resort	MA/326X	30p	6/-	5/60	Picador Pjerri	CL/640X	50p	10/-	11/56	Sugden 2.5 Eng.		40p	8/-		Warrings Light-	D (00.4V	40	0/	7/48
Lavengro	G/405X	50p		AMA/50	Pluto	G/767X	50p	10/-	9/60	Sugden Castings		50p	10/-		weight	D/294X	40p	8/-	8/51
Lazybones	I/157X	25p	5/-	3/42	President	G/723X	40p	8/-	3/59	Sultan	PET/477X	50p	10/-	7/52	Welshman	U/443X G/442X	45p 50p	10/-	8/51
Lazybones III	CL/387X	40p	8/-	8/50	Preston	PET/393X CL/481X	40p	8/-	10/50	Sunstreak	MA/245X	40p	8/-	8/56	Windrush II	PET/329X	50p	10/-	8/49
Lazy Daisy	CL/428X	40p	8/-	4/53	Prop Secret		40p	8/-	8/52	Sup	G/863X	40p	8/-	7/64	Windy A'int it?	FSR/286X	40p	8/-	3/48
Leander	G/156X	40p.	8/-	19/42	Pteranodon	PET/604X	50p	10/-	AMA/55	Super Saint	CL/465X	30p	6/-	2/52	Winged Serpent	D/827X	40p		AMA/62
Lil Abner	CL/478X	40p	8/-	7/52	Pussyfoot	U/624X PET/482X	50p	10/-	4/56	Susie	PET/737X	40p	8/-	8/59	Winter Queen Wishbone	G/859X	50p	10/-	4/64
Lil Aud	PET/446X	45p	9/-	9/51	Pylonius	PET/402X	40p	8/-	8/52	Swallow	G/265X	30p	6/-	7/47	Witch Mk.I	D/371X	40p	8/-	3/50
Lil Zowie	CL/339X	30p	6/-	11/48	ryionius	PE1/402X	40p	8/-	1/50	Sweep	MA/368	30p	6/-	6/62	Woodford Specia		40p	8/-	11/52
Lindy	CL/412X	25p	5/-	1/51						Swift	FSR/301X	40p	8/-	9/48	Woomera	MA/316	35p	7/-	1959
Linnet	PET/537X	45p	9/-	1/54						Swiss Miss	PET/571X	50p	10/-	12/54		MA/345X	40p	8/-	4/61
Little Stinker	J/413X	40p	8/-	2/51						Sword	CL/674X	40p	8/-		½A Wunda Wagere	PET/431X	45p	9/-	6/51
Little Vagabond	PET/136X	40p	8/-	3/45	R.A.F. V.	D/253X	40p	8/-	1/47	Splitter	WP/635X	40p	8/-	AMA/56	Wyvern	161/4317	dob	3,	0,0
					Rebel	PET/394X	40p	8/-	1/50										
	THE RESERVE TO SERVE THE PARTY OF THE PARTY				Revenge	G/415X	50p	10/-	2/51						V F C C- A. (-)	D/212V	400	8/-	4/53
					Riot Act	CL/956X	30p	6/-	1/68	Tailless Record					X.F.S. Co Axial	D/212X	40p	0/-	4/53
Man O'War	CL/383X	40p	8/-	7/50	Rocketeer	D/234X	40p	8/-	6/46	Holder	MA/64X	30p	6/-	12/49					
Manx Arrow	U/407X	25p	5/-	1/51	Roplano	G/782X	50p	10/-	3/61	Tadpole	G/519X	50p	10/-	7/53					
Martinsyde					RWD 8		oop		3/01	Tandem Mono-	dialay	ЗОР	10/-	1755		D/F001/	45	0/	10/E2
Buzzard	MA/327X	50p	10/-	4/60	Polish Trainer	FSP/174X	75p	15/-	8/44	plane	1/202X	25p	5/-	1944	Yardstick	D/529X	45p	9/-	10/53
Max Holste					R.T.P. Pusher	1/180X				Tantivvy	CL/530X	30p		AMA/53	Yoicks	CL/334X	40p	8/-	10/49
	PET/593X	50p	10/-	7/55	Streamline	771001	30p	6/-	1944	Tass 130	D/355X	40p		AMA/49	Y SELECTION				
	PET/928X	30p	6/-	11/66						Taurus	CL/360X	50p		AMA/49					
	D/344X	40p	8/-	12/49						Taylor Cub	FSR/196X	30p	6/-	1944	Zephyr	J/292X	30p	6/-	6/48
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Meteor	CL/397X	50p	10/-	11/50	WE CANNOT SU	PPLY IT				Thermal Queen		50p	10/-		_Zombie V	D/316X	50p	10/-	4/49
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				Hawker Hurricane	FSP/862	50p	19
Fairchild Argus	FSR/272	25p	38	Hawker Hind Trainer	FSP/476	50p	19
Fairchild Cornell P.T.19	MA/400	40p	31	Heinkel He 5 (S5) Hansa	FSP/608	30p	19
	CL/631	50p	31	Heinkel 51	FSR/141	30p	39
Fairey Gannet			17	Heinkel He 100	CL/1036	75p	80
Fairey Flycatcher	FSP/586	50p		Henschel He.129	MA/330	40p	33
Fairey Fulmar	MA/363	25p	17	Honey Bee	FSP/505	30p	20
Fairey Gannet	MA/380	40p	31	Hoppity	U/947	40p	49
Faital	PET/881	45p	52	Horizon	PET/913	20p	56
F.E.8.	FSP/495	50p	17	Hoverking	G/379	50p	68
Fieseler Storch	FSP/669	45p	17	Hunting Provost	CL/720	25p	33
Fighter Glider	G/107	25p	68	Hullting Flovost	02//20	200	
Firestrike	CL/980	30p	71	Igo	G/222	30p	68
Fishface	U/851	20p	55	Isabel	PET/1070	45p	56
Fizzlequick	J/599	25p	47	Ivory Gull	G/148	50p	62
Flap Happy	D/333	30p	49	IVOI y Gail			17.50
Flip	MA/276	30p	81	Javahawk	U/740	40p	56
Floating Kidney	TG/251	30p	49	Javanawk	U/579	40p	49
Floridian	G/847	35p	64		D/149	25p	44
Flying Enterprise	G/786	40p	62	J.B.3	D/152	20p	44
Flying Tiger	CL/843	30p	77	Jeep		30p	74
	FSR/129	25p	39	Jefe-11	CL/932		80
Focke Wulf 190	FSP/935	40p	17	Jet Trainer	CL/318	25p	
Focke Wulf 190			17	Jetex Quads	U/597	15p	41
Focke Wulf Stosser	FSP/617	30p		Jodel D.9 Bebe	FSP/591	30p	20
Focke Wulf Moskito	MA/319	45p	31	Jumping Jiminy	U/488	30p	50
Foka	G/1029	20p	62	Junkers Ju 87 Stuka	FSP/CL/675	30p	20
Fokker D.8	MA/353	35p	18	Junkers Ju 87 Stuka	FSP/CL/675	30p	33
Fokker DR.1 Triplane	FSP/453	50p	18			220	
Fokker D III	CL/623	35p	32	Kaman Helicopter	U/1055	40p	50
Fokker D VII	CL/403	30p	32	Karatter	CL/1057	40p	73
Fokker D VII	FSR/297	25p	39	Ketchup	CL/886	20p	81
Fokker D VII	FSP/916	25p	18	Kirby Motor Tutor	MA/210	40p	20
Fokker E IV	FSP/551	30p	18	Komar	D/934	20p	44
Fokker FV 11b 3M	CL/688	40p	32	Kwod	PET/787	40p	56
Fokker FV 11b 3M				Kyushu Shiragiku	MA/383	30p	20
Southern Cross	FSP/445	35p	18				
Fokker F-27 Friendship	CL/856	50p	32	La Mouette	G/774	20p	62
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September Warrior	MA/385	20p	83	Thermalist	01000	£1	67
S.E.5	FSR/274	25p	40	Thomas Morse S4C	and the state of t	50p	25
S.E.5a	FSP/682	25p	23	Threesome	D/658	15p	41
Shackleton MR3	CL/746	50p	28	Thunderbolt	CL/587	40p	78
Sharpoon	CL/806	30p	76	Tiger Moth	FSP/555	50p	16
Sharp Scooter	PET/804	30p	59	Tigress	CL/741	30p	75
Short Seamew	MA/218	35p	24	Tipsy Junior	(CL/321	25p	37
Shorty	G/583	30p	66	THE PARTY OF THE P	(CL/322	30p	37
Siesta	G/696	20p	63		(CL/323	40p	37
Silent Knight	MA/398	55p	70	Tipsy Nipper	FSP/731	30p	25
Siskin	CL/742	30p	28	Tomboy	PET/398	35p	60
Simple Simon	CL/773	30p	76	Topscore	G/684	30p	367
Skeeter	U/532	25p	51	Trio	U/656	15p	41
Skiffler	CL/665	40p	78	Trip Stick	D/818	35p	45
Skua	CL/771	40p	78	Tuffy	CL 829	20p	71
Skybolt	CL/908	20p	75	Turncoat	CL/926	20p	82
Skyhawk	C/679	30p	72	Tutor	D/954	20p	45
Skyranger	D/541	25p	45	Twiddler	J/702	15p	51
Skytale	PET/636	75p	60	Twosome	U/655	15p	41
Slarmi	G/953	15p	70	Typhoon 1B	FSP/372	30p	19
Slick Schick	CL/968	20p	81	Tyro Gyro	MA/139	30p	71
Slingsby (Kirby)	02,000				CL/369	25p	82
Tandem Tutor (T.31)	FSG/692	30p	67	Unlimited	D/751	30p	46
Slingsby T-21B	FSG/1018		67	Urchin	MA/392	30p	46
Snowflake	J/772	20p	48	Upbury	PET/G/1010	20p	60
Snow White	PET/585	30p	60	Upburys Convertible	CI /709	50p	79
Sopwith Camel	FSP/441	50p	24	U-2	CL/798	oup	13
Sopwith Pup	FSP/305	50p	24		PET/619	30p	60
Sopwith Pup	FSP/750	40p	24	Vampie		35p	71
Sopwith Schneider	FSP/1019	20p	24	Vedette	CL/975 PET/391	50p	61
Sopwith Snipe	MA/339	50p	24	Venture		50p	37
Sopwith Swallow	FSP/625	50p	25	Vickers Viscount 701	CL/701 PET/854	30p	53
Sopwith Tabloid	FSP/810	50p	25	Vindaloo		40p	53
Sopwith Triplane	CL/361	30p	36	Vital	PET/1041	30p	37
Sopwith Triplane	FSP/545	50p	25	Vought F4U-2 Corsair	MA/141 MA/136	35p	26
Sopwith 1½ Strutter	CL/651	50p	36	Vultee Vigilant	FSP/661	40p	26
Sopwith 1½ Strutter	FSP/907	40p	24	V.A. Walrus	F3F/001	400	20
Sorcerer	CL/544	30p	73	Wackett Boomerang	CL/433	30p	37
Spacehound	CL/846	50p	80	Waco Hadrian	FSG/219	25p	68
S.P.A.D. S-7C1 Scout	FSP/373	50p	25	Waco YQC-6	FSP/844	75p	27
Spanish Flea	G/1058	40p	63	Walthew Glider	G/341	20p	70
Spartan	MA/378	30p	78	Wee Snifter	MA/340	30p	61
Spinner	D/1042	20p	45	Westland Lysander	FSR/161	45p	40
Spitfire	CL/776	50p	37	Westland Lysander	FSP/160	50p	26
Spitfire LF XIV	FSP/607	30p	26	Westland Widgeon III	FSR/P/211	25p	- 26
Spiteful	MA/183	30p	37	Westland Widgeon III	FSR/211	20p	40
	CL/785	20p	81	Whippet	MA/309	20p	61
Splatt Stomper	PET/499	30p	53	Whizzler	G/791	15p.	170
Stallion	CL/865	30p	78	Wichita-5	MA/404	40p	67
Stampe Monitor	CL/820	50p	80	Wildfire	CL/364	20p	77
Streamer Screamer	CL/1096	40p	83	Windbag	MA/386	20p	61
Streamer Eater	CL/883	20p	83	Wolverine	CL/866	30p	. 78
	G/933	20p	63	Workmaster	FSP/RC82	35p	26
Strolling Bone	G/192	35p	66	Workingstor		No. 10	- 2
Sunclipper	G/283	60p	67	V	TG/394	40p	51
Sunspot Supermarine Spitfire VB	MA/376	30p	25	Xernes	D/690	40p	43
Supermarine Spitific Vo	CL/930	50p	80	XL 56b	D/030	чор	
	CL/823	30p	73		MA/346	50p	37
Supermouse Sure Flyer	D/800	30p	45	Yak 4	PET/590	30p	54
Sure Flyer Sycamore & Hoverfly	U/713	25p	51	Y-Bar	G/805	20p	70
Syncopator	G/896	20p	63	Yellow Bird 13 & 20		4.0	
Taylorcraft Auster	FSR/195	25p	40	Zaunkoenig	FSP/392	35p	27
Telstar	G/1006	20p	63	Zeus	PET/841	35p	54
Tempest II	CL/336	30p	33	Zlin 226	CL/955	50p	79
Terrier	PET/553		60	½A Train	PET/994	40p	51
The New A/M Cabin Dura		20p	46	334G	CL/632	50p	77
The New A/W Cabin Dura		200					

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