

FREE FLIGHT SUPPLIES - MAIL ORDER CATALOGUE AND PRICE LIST
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Free Flight Supplies continues to develop. The theory behind this operation is to supply items, which are needed by the free flight modeller, or any other modeller, that cannot be readily obtained through the normal model shop outlets. I also believe in the builder of the model principal so what you will find, on my list, are components, plans materials etc: rather than the ARTF stuff. I supply the goods by mail order in the main. I have built this little operation alongside my flying activities and many of the items listed are used or have been developed and tested by myself. Although I am not a shop but if you are passing through Norwich, you are welcome to call in, a quick telephone call first to check that I'm at home will save a wasted diversion.

You can also find me at major free flight events. I also attend a few of the major overseas free flight events. I take a selection of my range of items with me to all events so give me a look and make a purchase. The range is now so vast it is not possible to bring everything so, to avoid disappointment please give me a call. Special deliveries can be made at events, let me know your specific requirements so that I can arrange, if you order this way please remember to turn up and collect.

I am always trying to extend the range of items sold, so suggestions for additions please. Presently I'm trying to deepen rather than widen the range rather than widen into new lines. If you know where I can obtain suitable items, or have something that I could distribute, please advise. Keep in touch for additions and changes to the list (the list is usually updated each quarter). An A5 (minimum size) SAE for £3.50 plus £1.00 will bring a new list. If you are able visit the web site as it is regularly updated with the latest information. I try to keep the range of items stocked consistent. However, the specialised nature means that sizes and specifications may be subject to unforeseen changes. If there are any improvements to the products that you consider useful, please let me know and I will look into the possibilities. As time permits this list and the web site will be developed to provide additional useful data. The weights or measurements that are quoted are a mixture of metric, Imperial etc. dependent upon the source of supply – the supply measurements will be used, derived dimensions will be in parenthesis (). Remember if I have it then I list it! and vice versa! If I'm out of stock of an item I will advise accordingly amend the charge and supply as appropriate. As and when stocks are replenished, I will advise.

Over the past few years due to stable economic conditions, I have been able to hold my prices steady with only the odd adjustment. However, the recent problems within the Global economy and the disasters of BREXIT and Covid 19 is affecting all of our lives. Free Flight Supplies is not immune to these problems. The fall in the value of the pound sterling against most major currencies is affecting the price that I am now paying for some of my stock. This means that I will have to increase prices as and when stock is replaced. This will not impact on those of you on the right side of the currency equation, the biggest impact will be for my domestic (UK) customers. Please be aware in these times I may have to make instant changes. Do check the prices before ordering. Come what may Free Flight Supplies will continue to operate!

I receive many queries. I try to answer everybody. However, please enclose an SAE or reply, coupon, give me a call/fax, or send me an e-mail. Feel free to copy and pass on this list - spread the word, it all helps!

To assist ordering, the list is sorted into generic types or class to which they are applicable i.e., covering material or glider, where possible I try to put in cross references. As it is impossible to pigeonhole some items, you are still advised to browse the whole list! Although I try hard not to make mistakes on these pages there are errors that slip through from time to time. If you spot one, I would be most grateful if you would point it out.

If you are browsing for a friend, thinking of a gift for a relative, or a prize for an event Free Flight Supplies is more than happy to provide you with a voucher to be cashed by the bearer for any of the products on the list.

I'm trying to make my contribution to saving the planet. I will send stuff in reused packaging materials, tubes, and envelopes whenever possible. Remember to let me have tubes, jiffy bags, boxes, and glass jars back for reuse, OK? Thanks.

To comply with GDPR I have to inform you that will hold your contact details on file. No other information about you will not be collected or held. I will delete these contact details if you so request.

ORDERS

Place your order by telephone, letter or fax. Internet orders or e-mail see Free Flight supplies web site. I have an answer phone so please leave a message if we are not there.

To assist the processing and supply of goods, please write clearly or type your name and complete address on the top of your order. Please add your telephone number in case I need to query your order. I will add this information to my file of customer details, this list is held for Free Flight Supplies use only. PLEASE RE-READ BEFORE PLACING YOUR ORDER. USE FAX OR E-MAIL FOR YOUR QUERIES/ QUESTIONS BEFORE FINALISING YOUR ORDER. ALL ORDERS UNDER £10.00 PLEASE ADD £1.00

PAYMENT METHODS - PLEASE NOTE PAYMENT WITH ORDER

CASH (GBP £'s, US \$ & EUROS ONLY), CHEQUE, POSTAL ORDER OR BANK DRAFT WITH ORDER – PAYABLE TO FREE FLIGHT SUPPLIES. DUE TO EXCESSIVE COST CASH ON DELIVERY (COD) TERMS ARE NOT AVAILABLE. ORDERS UNDER £10.00 (EXCLUDING POSTAGE) PLEASE ADD £1.00

An overseas draft or cheque should be drawn on a U.K. Bank. A cheque or draft drawn in your home bank or currency must include an additional sum to cover U.K. Bank charges allow £15.00 per cheque.

DIRECT TO FREE FLIGHT SUPPLIES BANK ACCOUNT

Payment can be made direct to Free Flight Supplies Bank account please request details. Remember to cover the cost of the UK bank charges.

CREDIT/DEBIT CARD

Free Flight Supplies accepts card payments. The following cards are accepted: - VISA/MASTERCARD/MAESTRO, VISA DEBIT & VISA ELECTRON, SWITCH, SOLO & JCB. Please advise: - Card type - number - expiry date - issue date – security number – issue number if appropriate. Orders placed by 'phone please have all the details of your order and card to hand.

WESTERN UNION

Where payment by standard methods is difficult you can, if you wish, pay using the facilities of the Western Union agencies. Make the payment to your local office and simply advise me the payment number.

PAYPAL

Payment can be made to mike@freeflightsupplies.co.uk. Please advise when the payment is made.

POSTAL – ARRANGEMENTS

All mail order items are sent via the national postal authorities. The authorities place various conditions on goods handled. The sizes, kits and in particularly the lengths, are restricted to, in the main, 90cm. FFS products are tailored to suit; this restriction precludes the sales of longer lengths of the thicker grades of carbon sheet. However, some of the thinner grades of carbon can avoid the additional postal charge by being send rolled. If products arrive damaged or you believe they may be lost in transit, please advise immediately. I try to re-cycle packaging whenever possible so mailing tubes, jiffy bags, boxes and glass jars etc are always welcome ask for a refill! Large or odd orders may fall outside the scope of my standard list of charges, please get in touch and we will sort the best option for both Free Flight Supplies and you.

POSTAL CHARGES	UK	EUROPE	REST OF WORLD
Rolled Esaki tissue	Add 3.00GBP	Add 3.00GBP	Add 3.00GBP
Orders under 100.00GBP	Add 15% to order value	Add 20% to order value	Add 25% to order value
Orders over 100.00GBP	Add 12.5% to order value	Add 15% to order value	Add 20% to order value
Minimum charge	£3.50	£5.00	£7.00
Plans only	£3.00	£3.00	£3.00
Packages over 90cm long and kits postal premium charge	In addition to the above £12.00 to order	In addition to the above £15.00 to order	In addition to the above £15.00 to order

All orders are sent at the standard rate, this is air within Europe. Outside Europe orders are sent by either **surface or air**. For airmail extra payment is required. **NOTE ADDITIONAL CHARGE FOR LONG PARCELS.** If requested I can cut the ordered material into lengths that when packed will save incurring the additional postal charges. At times because of the nature of the order it will be despatched in more than one parcel, and I will adjust the charge as circumstances require. **IN CERTAIN CASES COUNTRIES I MAY HAVE TO CHARGE EXTRA TO ENSURE DELIVERY.**

ANOTHER UNEXPECTED BREXIT REQUIREMENT THAT IS BEING ROLLED OUT TO ALL OVERSEAS PARCELS IS THE REQUIREMENT TO ADD THE RECEIPIENTS TELEPHONE NUMBER. SO PLEASE ADVISE WITH YOUR ORDER.

REMEMBER THAT THIS OPERATION DOES NOT FUNCTION THE SAME WAY AS AMAZON. PLEASE DO NOT CHASE UP WITHIN DAYS OF PLACING YOUR ORDER. IT CAN TAKE TIME AND I DO NOT HAVE THE TRACKING FACILITIES TO PROGRESS YOUR ORDERS. PLEASE BE PATIENT.

TERMS AND CONDITIONS

In the event of price changes, or currency problems, I will adjust the quantities supplied to agree with the payment. Prices are in Pounds GBP Sterling foreign currency conversion will be at the rate pertaining at the date of sale. As my operation is carried out on a part-time basis, and as many of the goods come from overseas and/or are "special", there may be occasional delays in getting supplies to you. Please be patient. I try to send off orders by return of post. Also note goods may be sent in more than one package so don't panic, the rest should be in the next post as in some cases the parcels could follow different routes/procedures! **But allow up to 28 days for delivery. PS I do go on holiday sometimes! Remember there is only me carrying out the work so please don't hassle after just a couple of days of no show!** Also remember recent changes in mail delivery don't help!

If you have a problem with any of the goods received, please advise and I will do my best to solve the problem. I cannot be responsible for goods ordered in error; refunds will be subject to a 10% handling charge and return postage. The minimum handling charge is 1.00. Note that plans are non-returnable.

REMEMBER PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE. SOME ITEMS WILL AFFECTED BY CHANGES IN EXCHANGE RATES. LOST/DAMAGED ITEMS ARE REPLACED WHEN AGREED BY THE POSTAL AUTHORITIES.

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CATALOGUE AND PRICE LIST

1. LIGHTWEIGHT COVERING MATERIALS

OS FILM

25 foot rolls of this lightest of films is now available for the covering of indoor models "2-gauge" 0.5 microns thick. It is not cheap, but it is a very special product. £30.00 per roll.

CONDENSER TISSUE

(7.8 gms per sq. metre) WHITE ONLY 500mm x 1000mm.	£5.00 per sheet.
(7.8 gms per sq. metre) WHITE ONLY 150mm x 1000mm.	£1.00 per sheet.
(15.6 gms per sq. metre) WHITE ONLY 800mm x 1000mm.	£1.00 per sheet.

POLYESTER TISSUE sold as "Polyspan" in the USA.

Very tough, takes little dope, use like tissue, or iron on film, shrink with heat not water, any creases will be removed with an iron when the model is covered. Sold from the roll of 1 metre width, folded. WHITE ONLY

Lightweight (15 gms per sq. metre)	£2.50 per sq. metre.
Standard (25 gms per sq. metre)	£4.00 per sq. metre.
Reinforced heavyweight (35 gms per sq. metre)	£8.50 per sq. metre.

ESAKI TISSUE

Quality tissue made in Japan by Esaki, is now out of production and the selection of colours is running out, a tissue developed by the original manufacturers in a range of colours and weights specifically for covering model aircraft. Cover shiny side inside, not critical but don't mix as a different sheen results from the two different surface finishes. There is very little grain, but it runs down the longest measurement of the sheet. The Lite Flite is probably the best tissue to use over Mylar covering.

Lite Flite: 450mm (18") x 600mm (24") 12.5 gms per sq. metre

Blue, Orange, Green, White, Brown, Sky-blue £1.50 per sheet.

Chequered (12mm Squares) Red/White, Black/White, Black/Red, Black/Yellow, Blue/White. Yellow/White £2.00 per sheet.

Medium Flite: 400mm (16") x 900mm (36") (14.0 gms per sq. metre) White £2.50 per sheet.

Super Flite: 600mm (24") x 900mm (36") 21.5 gms per sq. metre

Orange, Green, £2.50 per sheet.

ASUKA TISSUE

After searching and correspondence a new tissue to replace Esaki has been developed. This tissue is almost identical to Esaki in both weight and texture. The colours are more muted. The range of colours will be expanded. Size 450mm (18") x 600mm (24") 12-13 gms per sq. metre

Red, Yellow, Blue, Orange and white £1.75 per sheet.

MODELSPAN TISSUE

Modelspan tissue available in white and in two weights.

Lightweight 51cm x 76cm 12 gms per sq metre £1.50 per sheet

Heavyweight 51cm x 76cm 21 gms per sq metre £2.50 per sheet

WHITE MIKALENTA TISSUE

Traditional Japanese tissue. Sold from the roll of 1 metre width £2.50 per sq. metre

Prices are for tissue sent folded in an envelope, large orders or extra for packaging and post will ensure it is sent rolled, remember that the cost of post and packaging can cost more than the tissue! If sent folded and it arrives creased, iron with warm household iron and leave flat overnight then use and it will be o.k.) You can send a tube with your order if you wish. Note that the rolling option is only available with respect to the Esaki tissue.

DOPE SOLVENT/TISSUE REMOVER

Just paint on to soften dope then simply peel off tissue. 200 mls, £2.50 per bottle.
NOT AVAILABLE THROUGH THE POST, ONLY ON THE FLYING FIELD. Please return your empty bottles for recycling.

MYLAR COVERING MATERIAL FOIL

A large range of Mylar films available for use on both indoor and outdoor models. Note no other widths or sizes available. Clear or note that the single side aluminised finish is with no stripes.

1 micron clear	(1.3 gms per sq. metre)	5 metres x .315 metres wide	£5.00 per roll.
2 micron clear	(2.4 gms per sq. metre)	5 metres x .315 metres wide	£5.00 per roll.
5 micron (1/4 mil) clear	(6.8 gms per sq. metre)	7.5 metres x .315 metres wide	£5.00 per roll.
5 micron (1/4 mil) aluminised	(6.8 gms per sq. metre)	7.5 metres x .315 metres wide	£5.00 per roll.
7.5 micron (3/8 mil) clear	(10.2 gms per sq. metre)	7.5 metres x .315 metres wide	£5.00 per roll.
10 micron (1/2 mil) clear	(13.6 gms per sq. metre)	7.5 metres x .315 metres wide	£5.00 per roll.
10 micron (1/2 mil) aluminised	(13.6 gms per sq. metre)	7.5 metres x .315 metres wide	£5.00 per roll.
15 micron (3/4 mil) clear	(20.4 gms per sq. metre)	7.5 metres x .315 metres wide	£5.00 per roll.
15 micron (3/4 mil) aluminised	(20.4 gms per sq. metre)	7.5 metres x .315 metres wide	£5.00 per roll.

1 micron thick, (1.3 gms per sq. metre) 30 cm wide, 5 metre lengths. Use to cover indoor models, thicker and stronger than OS film.

2 micron (0.002mm, 0.0000787"), Weatherproof glass/Kevlar covered sheet, fix to the surface with resin. Also, for covering indoor models.

Use instead of tissue or under Esaki Lite Flite tissue.

5 micron (0.005mm, 0.0001968") recommended for wings up to F1B and tails of up to F1A size models

7.5 micron (0.0075mm, 0.0002953") recommended for wings up to F1B and tails of up to F1A size models

10 micron (0.010mm, 0.0003937") recommended for wings for F1B size and tails for F1C size models

15 micron (0.015mm, 0.0005905") recommended for wings of large gliders and power models

HEAT SEALING IRON

Teflon coated shoe, temperature adjustable use to attach Mylar, MICAFILM, AIRSPAN, LITESPAN, Polyester tissue etc. £32.99.

SOLARFILM PRODUCTS

Although now out of production I still have some stock still available.

Airspan - (24-28 gms per sq. metre) very light, thin synthetic fibre tissue. Slightly porous so needs a light coat of dope to seal, this gives the rigidity and tension of a doped finish plus post the extra strength and toughness of synthetic fibres. Colours:- White, Orange, Black, Cream, Fluorescent Pink

Litespan - (28-32 gms per sq. metre) very light, thin synthetic fibre tissue. Has been factory "doped" with a totally fuel proof resin. Colours - Tissue colours - Orange, Red, Blue. Scale colours - Cream, Black, White, Silver, Dark Green (a Military shade).

Sizes - sheets 36" x 20" (910 mm x 500 mm) £5.00 per sheet.
- sheets 72" x 20" (1820 mm x 500 mm folded) £9.50 per sheet.

See Section 23 - "How-To-Do-It" No's. 1, 4, 5, 10, 13 & 14, for help in using these covering materials.

2. SUNDRY MATERIALS

PCB TAPE

Black crepe tape .031" wide, 16.5 metres long - for turbulators and invigorators. £2.50 per pack.

7 STRAND STAINLESS STEEL WIRE

10 metre pack of 0.6mm dia 15 lb 7.5kg steel wire, ideal for auto and bunt lines (both sizes) £4.00 per pack.

COPPER WIRE

Useful for binding wire components together before soldering or use as hinge material.

22 swg and 24 swg, 5 metre coil.

£0.95 (both sizes) per pack.

HE30TF ALLOY TUBE 16 SWG WALL THICKNESS

5/16" OD - 90p per foot - ideal for winding rods, 48" lengths for delivery at contests

£3.60 each.

HE30TF ALLOY TUBE 22 SWG WALL THICKNESS

3/16" OD

£0.60 per foot.

1/4" OD

£0.60 per foot.

5/16" OD

£0.65 per foot.

All three tubes will fit together to make rear motor peg assemblies for rubber models 3/16", 1/8" ID

48" lengths of 1/4" and 5/16" for winding rods for delivery at contests.

£2.20 per length

7076-T9 HARD ALLOY TUBE 0.008" (0.20mm)-0.010" (0.25mm) WALL THICKNESS

0.178" (4.52mm) OD x 30" (762mm)

£2.00 per piece.

BRASS AND ALLOY TUBE

12" lengths - 6, 8, 10, 12, 14, 16, 18, 20, 22 swg bore.

£1.00 per length.

Sizing 8swg fits 6swg, 10 fits 8, 12 fits 10, 14 fits 12, 18 fits 14, 20 fits 16

MYLAR HINGE MATERIAL 0.2 mm x 25 mm wide x 5 metres long

£1.00 per piece.

TYVEK

Spun bound olefin "Tyvek" (75gms per sq. metre)- paper like material that can be used as a lightweight hinge for rudders, can also be used for paper fairings and reinforcements, etc. Can be glued easily with PVA or cyano. 5 A4 sheets (210 mm x 297 mm)

£3.00, per pack

SHEET METAL 4" x 10" SHEETS

Brass 0.010" 33 swg £2.15 per sheet

Aluminium 0.016" 27 swg

£1.59 per sheet

0.015" 28 swg £2.85 per sheet

0.032" 21 swg

£2.15 per sheet

0.032" 21 swg £4.99 per sheet

0.064" 16 swg

£3.15 per sheet

Copper 0.024" 23 swg £5.49 per sheet

Tin

0.008" 36 swg

£1.50 per sheet

PTFE SHEET 1 mm thick white PTFE sheet cut for friction free washers 2" x 18"

£1.75 per piece.

CLEAR ACETATE SHEET

Ideal for glazing windows and moulding canopies. A4 size sheets (300 x 210 mm) 11³/₄" x 8¹/₄".

71 micron (0.0028")

£0.75 per pack of 5 sheets.

96 micron (0.0038")

£1.00 per pack of 5 sheets.

140 micron (0.0055")

£1.25 per pack of 5 sheets.

175 micron (0.0069")

£1.50 per pack of 5 sheets.

240 micron (0.0094")

£2.00 per pack of 5 sheets.

500 micron (0.0196")

£3.00 per pack of 5 sheets.

DOUBLE SIDED MYLAR

Ideal material for hinging rudders, etc. Heat sensitive, adhesive both sides form a sandwich between balsa laminations and seal with hot iron. Square foot (6"x 24")

£1 20 per piece

WHITE DEPRON FOAM

Lightweight plastic foam for indoor models. Easy to cut and mould.

6mm x 300 x 210 (A4)

£0.70 per sheet

3mm x 300 x 210 (A4)

£0.60 per sheet.

LEAD FOIL WEIGHT

Strips of self adhesive lead weight 12" x 1/2" length 6 grammes

£1.50 per piece.

ROUND ELASTIC

The elastic is manufactured from 100% natural latex, which gives it a better balance over a wide temperature range, a high rate of stretch and a faster recovery rate. Colour coded and self-lubricating due to an internal silicone treatment. Supplied in 10 metre packs. £2.50per pack.

Number	Code	Diameter mm	Colour
1	R7400	0.49	Hot red
2	R7401	0.66	Fluorescent pink
3	R7402	0.75	Bright yellow
4	R7403	0.84	Fluorescent orange
5	R7404	0.93	Bright green
6	R7405	1.06	Yellow
8	R7406	1.27	Dark yellow
10	R7407	1.44	Fluorescent red
12	R7408	1.60	Magenta
14	R7409	1.80	Dark blue
16	R7410	2.00	Green

3. HI-TECH MATERIALS

NOTE NEW ADDITIONAL CHARGE FOR LONG PARCELS. If requested I can cut the ordered material into lengths that when packed will save incurring the additional postal charges.

CARBON/KEVLAR - MIXED CLOTH

66 gms per sq. metre (1.94oz per sq yard) 1.0 metre wide, £45.00 per sq. metre.

KEVLAR CLOTH

36 gms per sq. metre (1.05oz per sq yard) 1.0 metre wide, £25.00 per sq. metre.

60 gms per sq. metre (1.76oz per sq yard) 1.0 metre wide, £38.00 per sq. metre.

93 gms per sq. metre (Russian) (2.74oz per sq yard) 1.0 metre wide, £25.00 per sq. metre.

CARBON FIBRE CLOTH

Lightest available at 93 gms per sq. metre (2.74oz per sq yard) 1.0 metre wide, £65 per sq. metre.

GLASS FIBRE CLOTH

20 gms per sq. metre (0.60oz per sq yard) 38" wide £7.50 per sq. metre.

25 gms per sq. metre (0.75oz per sq yard) 38" wide £4.50 per sq. metre.

48 gms per sq. metre (1.40oz per sq yard) 38" wide £5.00 per sq. metre.

70 gms per sq. metre (2.00oz per sq yard) 38" wide £6.00 per sq. metre.

108 gms per sq. metre (3.20oz per sq yard) 38" wide £7.00 per sq. metre.

All glass, carbon and Kevlar cloth is plain weave.

To avoid wastage the 93 gms Carbon, 36 gms and 60 gms Kevlar cloth and mixed cloth are supplied cut on the bias that is at 45°. Remember that when laying out your material requirements that cutting to 45° reduces the width of the cloth when measured across the diagonal! Off-cuts from the initial trimming of a new roll produces 45° triangle shaped pieces - carbon £15, Kevlar £4, mixed £7 subject to availability.

Lengths of greater or less than one metre, prices pro rata.

All glass and 93gsm Kevlar are cut at 90°.

CARBON FIBRE TISSUE

Looks like medium weight tissue.

20 gms per sq. metre (0.60oz per sq yard). Approx. 0.005" thick, consists of 1" pan. based carbon fibre, very strong when fixed with dope or resin. 1 metre wide £9.00 per metre.

FLAT CARBON FIBRE TOW

0.8095 gms per metre, (12,000 filaments per tow) £0.10 per metre.

0.0700 gms per metre (1,000 filaments per tow) £0.05 per metre.

KEVLAR TOW

0.33 gms per metre (3000 denier 1,333 filaments per tow) £0.07 per metre.

BORON

0.003" Boron tungsten fibre pack of 80 600mm pieces £25.00 per pack

RUSSIAN UNI-DIRECTIONAL CARBON CLOTH

0.12 mm thick, 210 mm width. Ideal for making your own uni-directional laminations either on its own or onto spruce, balsa or foam. £12.00 per metre.

CARBON FIBRE "SOCK"

Woven tube of carbon filaments impregnate with resin to lay up as tubes or to bind spars and webs together:-

SC1014 Dia, from 0.9mm to 5.0mm. Width from 3mm to 15mm. Dia at 45°1.5mm 2.50 per metre

SC1020 Dia, from 1.5mm to 7.5mm. Width from 4mm to 24mm. Dia at 45°2.5mm 3.00 per metre

SC1032 Dia, from 3.0mm to 13.0mm. Width from 8mm to 40mm. Dia at 45°10.0mm 3.50 per metre

SC1045 Dia, from 5.0mm to 18.0mm. Width from 15mm to 53mm. Dia at 45°15.0mm 5.00 per metre

UNI-DIRECTIONAL CARBON FIBRE MATERIAL

Finished carbon sheet for spars and other structural components.

13. Sheet 25" (650 mm) long 4.00" (100 mm) wide 0.003" (0.09 mm) thick £20.00 per sheet

1. Sheet 36" (910 mm) long 4" (100 mm) wide 0.005" (0.13 mm) thick £12.00 per sheet

2. Sheet 36" (910 mm) long 6" (150 mm) wide 0.007" (0.18 mm) thick £20.00 per sheet

3. Sheet 48" (1220 mm) long 6" (150 mm) wide 0.007" (0.18 mm) thick £21.00 per sheet

4. Sheet 36" (910 mm) long 3" (75 mm) wide 0.014" (0.36 mm) thick £12.00 per sheet

5. Sheet 48" (1220 mm) long 3" (75 mm) wide 0.014" (0.36 mm) thick £15.00 per sheet

6. Sheet 36" (910 mm) long 3" (75 mm) wide 0.021" (0.54 mm) thick £20.00 per sheet

7. Sheet 48" (1220 mm) long 3" (75 mm) wide 0.021" (0.54 mm) thick £24.00 per sheet

8. Sheet 36" (910 mm) long 3" (75 mm) wide 0.030" (0.76 mm) thick £25.00 per sheet

9. Sheet 48" (1200 mm) long 3" (75 mm) wide 0.030" (0.76 mm) thick £30.00 per sheet

10. Sheet 36" (910 mm) long 3" (75 mm) wide 0.042" (1.06 mm) thick £30.00 per sheet

11. Sheet 48" (1200 mm) long 3" (75 mm) wide 0.042" (1.06 mm) thick £45.00 per sheet

12. Sheet 28" (710 mm) long 3" (75 mm) wide 0.030" - 0.014" thick (0.76 mm-0.36 mm) £15.00 per sheet

Some suggested uses: Sheets 1, 2 & 25 cap strips Sheets 3 - 10 spars Sheets 5, 6, 7 trailing edge. The sheet can be cut with a diamond saw and used without recourse to any further finishing. Alternatively cut with heavy-duty knife. Fix with either epoxy or cyano.

UNI-DIRECTIONAL CARBON FIBRE MATERIAL CUT TO SIZE

These spars meet the demand for pre-cut carbon spars rather than using sheet stock to cut to ones own requirements. The range of spar sizes available should satisfy most needs. The spars are cut on a diamond saw so can be used straight away without any further finishing. The user easily cuts cap strips with a knife from sheet.

1. Tapered spar 16" (405 mm) long 0.08" (2 mm) taper to 0.04" (1 mm) 0.007" (0.18 mm) thick, £0.50 each

2. Tapered spar 24" (610 mm) long 0.20" (5 mm) taper to 0.08" (2 mm) 0.014" (0.36 mm) thick, £1.25 each

3. Tapered spar 24" (610 mm) long 0.20" (5 mm) taper to 0.08" (2 mm) 0.021" (0.54 mm) thick, £1.50 each

4. Tapered spar 36" (910 mm) long 0.20" (5 mm) taper to 0.08" (2 mm) 0.014" (0.36 mm) thick, £1.75 each

5. Tapered spar 36" (910 mm) long 0.20" (5 mm) taper to 0.08" (2 mm) 0.021" (0.54 mm) thick, £2.00 each

6. Tapered spar 36" (910 mm) long 0.40" (10 mm) taper to 0.16" (4 mm) 0.021" (0.54 mm) thick, £5.00 each

7.Tapered spar 36" (910 mm) long 0.48" (12 mm) taper to 0.16" (4 mm) 0.030" (0.76 mm) thick,	£4.75 each
8.Tapered spar 36" (910 mm) long 0.48" (12 mm) taper to 0.16" (4 mm) 0.042" (1.06 mm) thick,	£5.50 each
9.Trailing edge 24" (610 mm) long 0.10" (2.5 mm) 0.021" (0.54 mm) thick,	£1.50 each
10.Trailing edge 24" (610 mm) long 0.14" (3.5 mm) 0.030" (0.76 mm) thick,	£1.75 each
11.Trailing edge 36" (910 mm) long 0.10" (2.5 mm) 0.030" (0.76 mm) thick,	£1.75 each
12.Trailing edge 36" (910 mm) long 0.14" (3.5 mm) 0.030" (0.76 mm) thick,	£2.50 each
13.Spar 24" (610 mm) long 0.06" (1.5 mm) 0.014" (0.36 mm) thick,	£1.75 each
14.Spar 24" (610 mm) long 0.10" (2.5 mm) 0.014" (0.36 mm) thick,	£1.25 each
15.Spar 28" (710 mm) long 0.12" (3.0 mm) 0.030" taper to 0.014" thick (0.76 mm to 0.36 mm),	£1.50 each
16.Spar 28" (710 mm) long 0.20" (5.0 mm) 0.030" taper to 0.014" thick (0.76 mm to 0.36 mm),	£2.50 each
17.Trailing edge 24" (610 mm) long 0.10" (2.5 mm) 0.030" (0.76 mm) thick,	£1.75 each
18. Spar 24" (610 mm) long 0.06" (1.5 mm) 0.021" (0.54 mm) thick,	£1.25 each
19.Tapered spar 12" (305 mm) long 0.25" (6 mm) taper to 0.08" (2 mm) 0.007" (0.18 mm) thick,	£1.00 each
20.Tapered spar 24" (610 mm) long 0.12" (3 mm) taper to 0.06" (1.5 mm) 0.014" (0.36 mm) thick,	£1.25 each
21.Tapered spar 24" (610 mm) long 0.12" (3 mm) taper to 0.06" (1.5 mm) 0.021" (0.54 mm) thick,	£1.75 each
22.Strips for strengthening/reinforcement 270mm x 7mm x 1.0mm thick	£1.00 each
25.Tapered spar 18" (457 mm) long 0.75" (19 mm) taper to 0.20" (5 mm) 0.007" (0.18 mm) thick,	£1.25 each
26.Tapered spar 36" (910 mm) long 0.48" (10 mm) taper to 0.16" (4 mm) 0.042" (1.06 mm) thick,	£5.50 each
27.Tapered spar 36" (910 mm) long 0.40" (10 mm) taper to 0.16" (4 mm) 0.030" (0.76 mm) thick,	£5.50 each

Mix and match your own preferences -just let me know what combinations and sets you want.

Some suggested uses: Spar 1 - F1B, F1H, tip, F1G 2, 3, 20,21, - F1B, F1H, F1J. centre panels & F1A tips

Spar 4, 5, 6, - F1B and F1H wing. 7, 8, - F1A and F1C centre panels.

Trailing edge 9, 11 - F1B, F1H, F1J, F1C tail 10, 12 - F1A, F1C

Spar 13, 14 - F1A, F1B, F1C, F1H, F1J tails, F1G wings 15, 16 - F1B, F1H, F1J

Off-cuts from cutting process, useful for odd fill in work etc. Check availability before ordering. Small 50p, Large £1.00 per strip.

PULTRUDED GLASS FIBRE ROD

3.0 mm burn the end to melt the epoxy out; the remaining glass makes a very good disposable brush for epoxy. £0.60 each

PULTRUDED CARBON FIBRE TUBE

0.125" (3.18mm) OD x 0.070" (1.78mm) ID x 36" (915mm) £3.00 each

0.196" (4.98mm) OD x 0.120" (3.00mm) ID x 36" (915mm) £3.00 each

KEVLAR THREAD

Thread ideal (0.15mm thick) for binding stressed parts e.g. wing joiner tubes & spars, you can use Kevlar thread in any situation in which binding is called for. 200metre card £10.00.

TUBULAR CARBON SPARS

Tail spars –

3.0mm dia x 350mm long £9.00 each

4.0mm dia x 400mm long £11.00 each

4.5mm dia x 800mm 2.8 grams £14.00 each

Wing spars –

5.0mm dia x 800mm £14.00 each

6.0mm dia x 700mm 6 grams. £14.00 each

8.0mm dia x 700mm 10 grams £14.00 each

10.0mm dia x 700mm 15 grams. £15.00 each

12.0mm dia x 800mm 25 grams £16.00 each

PULTRUDED SECTIONS (MAARTEN VANDIJK)

Maarten is developing the production of special pultruded sections of carbon fibre:-

Trailing edge

Trailing edge section 1.60mm x 0.60mm to 0.4mm x 1000mm £3.50 each

Trailing edge section 3.00mm x 0.70mm to 0.5mm x 1000mm	£4.00 each
Trailing edge section 3.80mm x 0.85mm to 0.6mm x 1000mm	£4.50 each

Spars

Spars 7.00mm x 0.30mm x 1000mm	£3.00 each
Spars 1.00mm x 0.40mm x 1000mm	£2.00 each
Spars 2.00mm x 0.40mm x 1000mm	£2.20 each
Spars 3.00mm x 0.40mm x 1000mm	£2.30 each
Spars 3.00mm x 0.60mm x 1000mm	£2.40 each
Spars 4.00mm x 0.60mm x 1000mm	£2.50 each
Spars 6.00mm x 0.60mm x 1000mm	£2.60 each
Spars 2.00mm x 0.80mm x 1000mm	£2.50 each
Spars 3.00mm x 0.80mm x 1000mm	£3.00 each
Spars 6.00mm x 0.80mm x 1000mm	£4.00 each
Spars 8.00mm x 0.80mm x 1000mm	£4.00 each
Spars 4.00mm x 1.10mm x 1000mm	£4.00 each

Cap strips (new packaging)

Cap strips 3.00mm x 0.13mm 10 x 1 metre lengths	£16.00 per pack
Cap strips 2.00mm x 0.13mm 10 x 1 metre lengths	£16.00 per pack
Cap strips 1.50mm x 0.12mm 10 x 1 metre lengths	£16.00 per pack
Cap strips 1.00mm x 0.12mm 10 x 1 metre lengths	£16.00 per pack

Half round

0.70 mm x 1 metre the size is the radius (wing leading edge)	£3.00 each
1.00 mm x 1 metre the size is the radius (wing leading edge)	£3.00 each
1.50 mm x 1 metre the size is the radius (wing leading edge)	£3.50 each
2.00 mm x 1 metre the size is the radius (wing leading edge)	£4.00 each
2.50 mm x 1 metre the size is the radius (wing leading edge)	£4.00 each

Rods

0.25 mm x 1 metre (wing leading edge)	£2.50 each
0.50 mm x 1 metre (wing leading edge)	£2.50 each
0.75 mm x 1 metre (wing leading edge)	£2.50 each
1.00 mm x 1 metre (wing leading edge)	£3.00 each
1.50 mm x 1 metre (rubber model longerons)	£2.00 each
2.00 mm x 1 metre	£3.00 each
2.50 mm x 1 metre	£3.50 each
3.00 mm x 1 metre	£4.00 each
0.125" x 1 metre (F1B wing joiner)	£5.00 each
4.00 mm x 1 metre (F1B wing joiner)	£4.00 each
5.00 mm x 1 metre (Wing joiner)	£7.00 each

Micro Round Tubes

0.7 mm OD 0.27 mm ID x 1 metre weight 0.4 grams	£4.00 each
1.0 mm OD 0.50 mm ID x 1 metre weight 0.8 grams	£4.00 each
1.5 mm OD 0.70 mm ID x 1 metre weight 2.0 grams	£4.00 each
2.0 mm OD 1.00 mm ID x 1 metre weight 3.5 grams	£4.00 each
2.5 mm OD 1.50 mm ID x 1 metre weight 4.6 grams	£4.00 each
3.0 mm OD 2.00 mm ID x 1 metre weight 5.6 grams	£4.00 each
4.0 mm OD 3.00 mm ID x 1 metre weight 7.8 grams	£4.00 each
4.0 mm OD 2.50 mm ID x 1 metre weight 11.2 grams	£4.00 each
5.0 mm OD 4.00 mm ID x 1 metre	£4.00 each
5.0 mm OD 3.00 mm ID x 1 metre	£4.00 each
6.0 mm OD 5.00 mm ID x 1 metre	£8.00 each

6.0 mm OD 4.00 mm ID x 1 metre	£8.00 each
7.0 mm OD 5.00 mm ID x 1 metre	£8.00 each
8.0 mm OD 7.00 mm ID x 1 metre	£10.00 each
8.0 mm OD 6.00 mm ID x 1 metre	£10.00 each
10.0 mm OD 8.00 mm ID x 1 metre	£10.00 each
12.0 mm OD 10.00 mm ID x 1 metre	£10.00 each

Micro Square Tubes

4.0 mm OD 2.50 mm ID x 1 metre	£4.00 each
6.0 mm OD 4.00 mm ID x 1 metre	£5.00 each
8.0 mm OD 6.00 mm ID x 1 metre	£6.00 each

Sheet

20.0 mm x 0.50mm thick x 1 metre	£6.00 each
40.0 mm x 0.50mm thick x 1 metre	£10.00 each

Note that where ID and OD sizes are the same the tubes will telescope.

PULTRUDED MATERIAL AND SHEET ONLY SUPPLIED IN FULL LENGTHS.

10 ML PLASTIC SYRINGES Plastic syringes for measuring epoxy, etc pack of 2 £1.75 per pack.

COLLOIDAL SILICA Add up to 10% to thicken epoxy to fill gaps etc. 60 ml jar £2.50 per jar

CARBON FIBRE/ALLOY BOOMS

F1B/F1H - 12.8 mm to 5.1 mm x 770 mm, 7.0 gm	£27.00 each
F1A - 16.5 mm to 6.5 mm x 770 mm, 15.0 gm	£48.00 each

CARBON FIBRE CLOTH BOOMS

Lightweight construction

F1G - 12.0 mm to 4.5 mm x 770 mm, 4.5 gm	£23.00 each
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“LONG” CARBON FIBRE BOOMS

Extra length carbon booms for F1B, these can be tailored to fit most F1B applications

13.3 mm to 4.9 mm x 900 mm, 9.5 gm	£30.00 each
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KEVLAR MOTOR TUBES - HOT CURED EPOXY MATRIX

F1B - 3 layers 93gm Kevlar - 600 mm x 30.0 mm to 28.0 mm dia, 22 gms, £25.00 each

F1G - 2 layers 93gm Kevlar - 390 mm x 20.0 mm to 18.0 mm dia, 7 gms, £25.00 each

For a complete F1B & F1G fuselage system see rubber accessories and Kits - Prima F1B. Booms and motor tubes are supplied in plastic tubes. Please return for recycling if possible.

CARBON FIBRE/GLASS BOOMS - UNGROUND FINISH

Light sanding will considerably reduce the tube weights (20% reduction?) and produce a ground finish

F1A - 13.5 mm to 6.0 mm x 1000 mm 16 gm	£15.00 each
17.5 mm to 10.2 mm x 950 mm 22 gm	£15.00 each
F1B/F1H - 11.0 mm to 5.4 mm x 800 mm 12 gm	£15.00 each
F1G - 8.0 mm to 3.3 mm x 650 mm 7 gm	£12.00 each
“CHUCKIE” - 6.0 mm to 2.8 mm x 510 mm 4 gm	£10.00 each
E36 7.0 mm to 5.0 mm x 820 mm 8 gm	£15.00 each

CARBON FIBRE/GLASS BOOMS - GROUND FINISH

As above but with a ground finish.

F1A 17.5 mm to 10.2 mm x 910mm 20 gm	£15.00 each
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LIGHTWEIGHT CARBON FIBRE TUBES

Lightweight carbon fibre motor tubes. Special tubes from Mike Francies for lightweight rubber models. The diameter is the ID of the tube.mm. The wall thickness is 0.12mm.

9/8" (28.2mm) dia x 32" (812mm) long 17.0 grammes BMFA rubber	£30.00 each
1.0" (25.4mm) dia x 32" (812mm) long 15.5 grammes BMFA rubber	£30.00 each
7/8" (22.2mm) dia x 32" (812mm) long 13.5 grammes P30	£30.00 each
3/4" (19.1mm) dia x 32" (812mm) long 11.5 grammes P30	£30.00 each
5/8" (15.9mm) dia x 32" (812mm) long 9.5 grammes P30/P20	£30.00 each

Cut a short piece of the tube and slot to reinforce for the nose block and rear peg.

CARBON FIBRE 'D' BOX SHELLS

F1A – Centre panel 705 mm x 40 mm x 0.16mm thick. Tip panel 480mm x 40 mm to 35 mm x 0.16 mm thick, weight 42 grams £73.00 per set.

F1B/F1H/F1J/F1P - Centre panel 520 mm x 35 mm to 30 mm x 0.12mm thick. Tip panel 350 mm x 30 mm to 25 mm. x 0.12 mm thick, weight 23 grams £69.00 per set

SURMANCO TUFKUT SCISSORS

KEVLAR is an extremely difficult material to cut without the proper equipment. These scissors are designed to cut difficult materials and are ideal for cutting Kevlar. To cut Kevlar the material should be held taut and the cutters operated smoothly and slowly £5.75 each.

See Section 23 - "How-To-Do-It" No's.3,8,9 & 11 for help in using these hi-tech materials.

4. FIXINGS

CUP WASHERS

Pressed tinplate washers, 20, 18, & 14 swg £0.60 for pack of 30, **No Mixed packs. 16 swg no longer available** £0.60 per pack

Pressed brass cup washers 16 swg only pack of 10 £1.20 per pack

CH/HD, C/T SCREWS

Supplied in packs of 10 complete with all items.

4BA steel 1" long - full nuts - large washers	£2.50 per pack
6BA steel 1" long - full nuts - large washers	£2.50 per pack
8BA steel 1" long - full nuts - large washers	£2.50 per pack
8BA nylon 3/4" long - full nuts.	£2.70 per pack
8BA nylon 1" long - full nuts.	£2.70 per pack
10BA steel 1/4" long CSK - Good for timer mountings.	£1.25 per pack
10BA steel 3/16" long - Good for timer mountings.	£1.25 per pack
10BA brass 1" long - full nuts - large washers.	£3.90 per pack
10BA brass 3/4" long - full nuts - large washers.	£3.40 per pack
10BA brass 1/2" long - full nuts - large washers.	£2.90 per pack
12BA steel 3/8" long - full nuts - large washers.	£4.00 per pack
2.0M nylon 12mm long – full nuts.	£1.75 per pack
2.5M nylon 20mm long – full nuts.	£2.65 per pack
3.0M nylon 20mm long – full nuts.	£2.65 per pack

5. RUBBER

FAI RUBBER TAN SUPER SPORT

I try to ensure the product I sell is OK. The rubber is supplied in date stamped factory sealed boxes. However, I can offer no guarantees regarding energy storage, number of turns achievable or the longevity of the rubber. As rubber is a natural product, there will be occasional variations in quality. NOTE Approx. 85yds in a box of 1/4" rubber.

1/16", 3/32", 1/8" 3/16" and 1/4" in 16 oz (450gram) box	£30.00per box,
I can supply a box of mixed sizes at a	£1.00 supplement per box

Rubber by the yard, 1/4 £0.45, 3/16" £0.40; 1/8" £0.35, 3/32" £0.30, 1/16" £0.25 per yard

FAI SUPER SPORT - STRIPPED FOR INDOOR FLYING

Sizes can be slightly variable due to the difficulty in stripping the material. 16-foot lengths width in inches.
0.020; 0.025; 0.030; 0.035; 0.040; 0.045; 0.050, 0.055; 0.060; 0.065; 0.070; 0.075; 0.080; 0.085; 0.090; 0.095;
0.100; 0.105; 0.110; 0.115; 0.120; 0.125 £3.00 each.

SKY-HI SOFT SOAP & GLYCERINE LUBRICANT 15ml,

£1.10 per bottle.

SILICONE RUBBER LUBRICANT

Dow Corning 200 (5000 CST viscosity) - Cleaner and more slippery than castor oil or soft soap.
30 ml £2.00, 60ml £3.00, 120 ml £5.00, 250 ml £8.00, 500ml £10.00 not available through the post.
If ordered with rubber I can dispatch. Please return your empty jars for recycling if possible.

Binding Agent - The silicone oil makes tying knots difficult. However, dip the ends to be tied in the colloidal silica binding agent and tie. Voila, it knots! 60 ml jar of binding agent £2.50 per jar.

6. RUBBER ACCESSORIES

FREE FLIGHT NEWS (FFN) (F1B) PROP UNITS

All units now sold. However, there are a few spare parts left in stock, ask for details and prices.

FREE FLIGHT NEWS (FFN) RUBBER BOBBINS

One piece, aluminium, thin wall tube with ends machined to clip into a winding tube. OD 1/4" x 1" long will take 5/32" motor peg. 10p each.

WAKEFIELD (F1B) PROP UNITS & ACCESSORIES

Finished units are no longer in production. Some spares are still available:

Nose ring	£2.00
Shaft	£1.90
Stop pin and clip	£1.30
Montreal pin and clip	£1.30
Rear hook	£1.90
Front nut	£1.25
Roots	£0.90 per pair
Flexible spinners red, black, white, yellow and green,	£0.49
Springs set of 2,	£0.30
Part finished units that with some work could be finished	£5.00 for a set of parts
Adjustable pitch hubs for use separately or with prop hub,	£4.50 per pair
Journal races for F1B prop units or similar use. 3/8" OD for 1/8" shaft, 5/32" deep with flanges deep grooved.	£4.00 for a pair of bearings.

F1B MOTOR TUBE, BOOM

Motor tube - 3 layers 93gm Kevlar 600 mm x 30.0 mm to 28.0 mm dia, 22 gms	£25 00
Boom – (carbon fibre/alloy) 12.0 mm to 5.0 mm x 740, 7.0 gms	£23.00
Boom – (carbon fibre) 13.5 mm to 4.9 mm x 900, 9.5 gms	£23.00

F1G MOTOR TUBE, BOOM

Motor tube - 2 layers 93gm Kevlar 390 mm x 18.0 mm to 18.0 mm dia, 7 gms	£25 00
Boom – (carbon fibre cloth) 12.0 mm to 4.5 mm x 770, 4.5 gms	£23.00
Couplers	£15.00

REAR MOTOR PEGS

Hollow alloy peg 3/16" OD with screw end, fits 28 mm dia. fuselage for 12 swg stooge pin	£1.90 each
Hollow alloy peg 1/4" OD with screw end, fits 28 mm dia. fuselage for 10 swg stooge pin	£2.10 each

THRUST RACES

14 swg (2 mm) brass housing with steel balls	£3.50 each
16 swg (1/16") 3 piece nylon nylon with steel balls	£3.50 each

BRASS BUSHES

14, 16, 18, 20 swg	£0.95 each
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RUBBER BOBBINS

One piece, no seams very thin wall aluminium, very light, £0.95 each.

- | | |
|---|---|
| 1. hole size 1/4", 7/8" dia. 1/4" wide | 2. hole size 5/32", 3/4" dia. 1/4" wide |
| 3. hole size 5/32", 3/4" dia. 3/8" wide | 4. hole size 1/4", 3/4" dia. 3/8" wide |

Delrin, very light all sizes plus post.

- | | |
|--|---|
| 1. hole size 1/8", 12mm dia. 3/16" wide £0.80 each | 2. hole size 1/8", 15mm dia 1/4" wide £0.90 each |
| 3. hole size 3/16", 20mm dia 3/8" wide £1.10each | 4. hole size 1/4", 20mm dia. 3/8" wide £1.20 each |
| 5. hole size 1/4", 25mm dia 3/8" wide £1.20 each | |

REAR MOTOR PEG MATERIAL (HE30TF alloy tube 22 swg wall thickness).

3/16" OD, 1/4" OD, 5/16" OD - 3/16" & 1/4" 50p per foot 5/16" £0.55 per foot.

The tubes will fit together to make rear motor peg assemblies for rubber models or use with bobbins.

Pultruded carbon fibre tube

0.125" (3.18mm) OD x 0.070" (1.78mm) ID x 36" (915mm) -	£3.00
0.196" (4.98mm) OD x 0.120" (3.00mm) ID x 36" (915mm) -	£3.00

WING JOINERS Full details see section 7 glider accessories.

PROP LOOPS (TIM GRAY STYLE)

16swg mini (P30) £0.50. Sheathing not required.

16swg small (Cd'h), £0.60. Plastic tube for sheathing £1.50 per metre.

16 swg standard (open and F1B) £0.60. Plastic tube for sheathing £1.50 per metre

16 swg standard long (open and F1B) £0.60. Plastic tube for sheathing £1.50 per metre

16 swg standard long (open and F1B) £1.10 Plastic tube for sheathing £1.50 per metre

14 swg heavy duty (open and F1B) £0.50, Plastic tube for sheathing £1.50 per metre.

IGRA RUBBER MODEL PROPELLERS

240 mm £2.25, 200 mm £2.00 150 mm £1.75. The thin light blades can be trimmed to shape. The 240mm is the P30 prop of choice! For complete units see SPENCER WILLIS items below.

SPENCER WILLIS

Spare prop units for Spencer's P20 and P30 kits these units feature IGRA propellers.

150mm (6")	£3.50
200mm (8") P20	£4.00
240mm (10") P30	£5.00

Hand carved propellers for Spencer Willis kits and other models

LANZO DUPLEX	complete nose unit £28.00 propeller only £25.00
YANKEE IV	complete nose unit £35.00 propeller only £33.00
1937 KORDA CLASS C	complete nose unit £25.00 propeller only £22.00
1939 KORDA	complete nose unit £34.00 propeller only £30.00
BLACKPOOL ROCK	complete nose unit £25.00 propeller only £22.00
BUCKERIDGE LIGHTWEIGHT DURATION	complete nose unit £28.00 propeller only £24.00
MINI-MANX TAILLESS (18" x 22.24"-21.8")	complete nose unit £28.00 propeller only £25.00
MAYZEE (open version)	complete nose unit £20.00 propeller only £17.00
KK SENATOR	complete nose unit £26.00 propeller only £22.00
KK GYPSY	complete nose unit £30.00 propeller only £25.00
KK CONTESTOR	complete nose unit £30.00 propeller only £25.00
VERON FLEDGLING (8" "FELIX" prop)	propeller only £12.00
HEP CAT	complete nose unit £24.00 propeller only £20.00

JAGUAR	complete nose unit £34.00
URCHIN	complete nose unit £36.00 propeller only £32.00
MERCURY	complete nose unit £24.00 propeller only £20.00
HORRY (preferred option for the Mercury)	complete nose unit £24.00 propeller only £20.00

Custom made propellers

Custom made propellers can be made for other rubber-powered models, enquire regarding details/prices. Send SAE for details of units currently available.

Torque meters 3 Sizes P20/P30, Mini vintage/Coupe and Vintage/Large rubber all sizes £12.50

BMFA EDUCATION PROGRAMME

Spare propeller units- fits all BMFA models, red 5.5" or black 6" either propeller. £0.60

KEIL KRAFT

5" plastic propellers to suit flying scale series of models	£0.30
12" plastic propellers to suit larger models	£1.00
3/4" plastic wheels to suit flying scale series of models	£0.25 per pair
1" plastic wheels to suit flying scale series of models	£0.30 per pair
1" streamline plastic wheels	£0.20 per pair

VERON

1" plastic wheels to suit flying scale series of models £0.30 per pair

KP AERO MODELS PRODUCTS

(092) Adjustable nose button. Plastic with thrust line adjustment. Double pack	£3.05
Simple nose button. (094) Large or (095) small. Pack of 10 either size	£1.05
Ball bearing nose button. – Use these and additional bushes for the prop shaft will not be required.	
(096) 1.0mm, (097) 1.2mm, (098) 1.6mm any size	£1.55 each
(099) 1.0mm, (100) 1.2mm, (101) 1.6mm	£5.10 pack of 4
Indoor rubber winder. (054) 5:1, (055) 10:1 or (056) 15:1 ratio (specify preference) -	£8.10 each
Indoor winder counter. (091) counter kit to add to winder	£5.50 each
Lightweight plastic wheels. (083) 10mm (3/8") dia pack of 10 £1.05 (084) 22 mm (7/8") dia	£1.00 per pair
(085) 25 mm (1") dia £1.05 per pair (086) 32 mm (1 1/4") dia	£1.25 per pair
Mini Hinges (126) pack of 4 £1.25, (127) pack of 12	£2.50
(111) 10-4 Winder. 10:1 & 4:1 combined winder for medium size outdoor models. Made from nylon reinforced plastic, ball races support the moving parts, spade handle & spring-loaded motor attachment weight	
305 grams now supplied complete with an analog counter	£66.35
(110) The analog counter is also available as a separate item at	£15.30

GIZMOGEEZER PRODUCTS

Although the Gizmo Geezer has passed away production has been taken up by others. The full range of precision rubber accessories is available.

PFW-70 Complete Precision Freewheeler with 7" prop	£12.00
PFW-80 Complete Precision Freewheeler with 8" prop	£12.00
PFW-95 Complete Precision Freewheeler with 9.5" prop	£12.00
PRP -70 7" prop	£2.00
PRP -80 8" prop	£3.00
PRP -95 9.5" prop	£3.00
PFW-01 Gizmo PFW parts package	£4.00
PFW-02 Gizmo PFW parts rebuild/customising pack	£4.00
PFW-03 Gizmo PFW parts nose button unit	£4.00

Use the Gizmo's to enhance your own design P30, modify the Spencer Willis P20 and P30 kits, or enhance the plans of the Andrey Burdov Bird Dog and Hot Dog, the Tweety by Thedo Andre, the Ex-plane by Per-Thomas Skjulstad, the Polecate by Don DeLoach or the Tubular Bustard by Jim O'Reilly. See section no. 20 kits and section no. 18 plans.

COMPRESSION SPRINGS

12.5mm long x 3.4mm dia, 0.3mm wire. For prop stops, light or medium compression pack of 10 either weight.
£1.00 per pack

Additionally, check out the pages for materials, components, timers, plans, kits, equip. etc.

7. GLIDER ACCESSORIES

HARDENED STEEL WING JOINERS (ALSO FOR RUBBER & POWER MODELS)

NOT CHEAP, BUT UNBENDABLE!! NOTE THAT YOU CAN CUT TO SHORTER LENGTHS.

F1A/F1C 5.0 mm or 5.5 mm x 200 mm,	£10.00 each.
F1A 4.0 mm x 165 mm,	£8.00 each.
F1B/F1H/F1J 3.0mm x 90 mm	£7.00 each.

TOWLINE WINCHES (IVAN HORESJI)

A close copy of the "Maxaid" winch,	£24.00 each
Spare reels	£4.50 each.
Spacers are no longer available as the drums have been made wider. Please send an S.A.E. for detailed specification of the winch.	

TOWLINE WINCHES (MAXAID)

I have a few drums and parts as new from Elton Drew. Drums two sizes either 15mm or 22mm wide either size
£2.00 each

Regarding MAXAID spare parts please send SAE for details.

Additionally, check out the pages for materials, components, timers, plans, kits, equip. etc.

8. POWER ACCESSORIES

WING JOINERS Full details see section 7 glider accessories.

HARD PLASTIC FUEL TUBE (METRE LENGTHS)

1.5 mm bore x 1.0 mm wall (for diesel/glow fuel and sheathing prop loops)	£1.50 per metre.
2.0 mm bore x 1.0 mm wall (for diesel/glow fuel and sheathing prop loops)	£1.50 per metre.

SILICONE FUEL TUBE (METRE LENGTHS)

1.5 mm bore x 0.5mm wall (squash off for engine timers)	£2.00 per metre
2.0 mm bore x 0.5mm wall (squash off for engine timers)	£2.50 per metre.
1.5 mm bore x 1.0mm wall	£2.75 per metre
2.0 mm bore x 1.0mm wall	£3.00 per metre.
2.5 mm bore x.1.0mm wall	£3.50 per metre.

Additionally, check out the pages for materials, components, timers, plans, kits, equip. etc.

9. INDOOR ACCESSORIES

For items specifically applicable to indoor check the following sections : -

1. LIGHTWEIGHT COVERING MATERIALS Tissue, OS Film and Mylar etc	15. TOOLS Razor blades etc
2. SUNDRY MATERIALS Wire etc.	18. PLANS Czech peanuts
3. HI-TECH MATERIALS Carbon and Kevlar etc.	20. KITS Fly In, Opitec & BMFA kits
5. FIXINGS Cup washers	21 A.A.LIDBERG PLANS AND KITS
6. RUBBER Stripped rubber and lubricant	22 "HOW TO DO IT" PUBLICATIONS

7. RUBBER ACCESSORIES KP Aero Models winders, counters, wheels & nose buttons, propellers. Peck Polymer items	23 BOOKS Jim Norfolk and Don Ross
13. ELECTRIC The full range of KP Aero Models items	

10. CO₂

Co₂ SODASTREAM ADAPTER (KP AERO MODELS PRODUCTS)

(057) SODASTREAM ADAPTER

£35.00 each

(058) Adapter spares kit

£3.60.kit

11. TIMERS - D/T FUSE, ETC.

D/T FUSE 5/32" dia 10 metre hank

£13.00 per hank

D/T BANDS size no.6 (15mm/5/8") pack of 250

£0.60 per pack

MINI TIMERS - EXCLUSIVE TO FREE FLIGHT SUPPLIES

Based upon Tomy Toys mechanisms. Single, dual, three and four function run for approximately 5 minutes.

The range is constantly being developed and improved based upon experience and user feed-back.

1.	Single function - for small rubber and glider	5 grams	£26.00 each
2.	Dual function - for small rubber and glider	5 grams	£27.00 each
3.	Three function – for small rubber and glider	6 grams	£25.00 each
4.	Four function – for small rubber and glider	6 grams	£25.00 each
5.	Engine squeeze off – for small power	6 grams	£24.00 each

TOMY TIMERS MECHANISMS

Basic units - Use in home build timers, weight 3 grams,

£1.60 each

Knobs – Spare winding knobs

£0.10 each

Mechanisms partly converted - The Shafts have been modified and the vibrating governor has the “waggler” fitted, all you need to do is add your own faceplate etc

£12.00 each.

See Section 23 - “How to do it” No.2 on how to convert the units to make your own timer.

WINGS AND WHEELS MINI TIMERS

1.	Badge classic and lite 1.2 grams	£18.00 each
2.	Button classic and lite 0.7 grams	£18.00 each
3.	Button dual function classic and lite 0.7 grams	£18.00 each
	10 metre reel of elasticated line to activate timers	£3.50 each.

Made from Delrin and are rotary viscous fluid timers with a single moving part, with fittings and instructions for suggested use. Ideal for ultra light models. The loading of the Classic is approx. twice that of the Lite.

TIMERS

Based upon Russian camera mechanisms the range is constantly being developed and improved based upon experience and user feed-back.

2.	Single function (F1A)	17 grams	£40.00 each
4.	Three function (F1B)	18 grams	£30.00 each
5.	Five function (F1C)	29 grams	£35.00 each
6.	Engine squeeze off	15 grams	£45.00 each
7.	Four function (F1B/F1J)	20 grams	£56.00 each
8.	Engine cut-off valve timer	22 grams	£47.00 each
9.	Ignition cut-off timer	18 grams	£33.00 each
10.	SLOP 3 function faster running	18 grams	£30.00 each
11.	Single function flat scroll, replaces the KSB DT timer *	21 grams	£45.00 each
12.	Two function	19 grams	£37.00 each

13. Combined single function for DT and fuel Squeeze off 21 grams £59.00 each
 * The KSB weighed 20 grams this replacement weighs 21 grams

Spare parts and partial units:

1. Mechanism with spring just add your own face plates and arms £12.00 each
2. Scrolls £2.25 each
3. Scroll screws (left-hand thread) long (12 mm) or short (10 mm) £1.75 each
4. Unmodified mechanisms £5.00 each.

Remember that the timers have a LEFT-HAND threaded scroll screw.

'CHEEPO' TIMERS

These timers and the idea was passed to me by Ralph Sparrow. These plastic dampers can be used in home constructed timers. Very light (1.2 grams) Ralph's full conversion details supplied £6.50 each.
 Fully converted timer ready to go £9.50 each

ORTHODONTIC ELASTICS

1/4" for d/t bands £1.20 per pack
 Other sizes see section no.17 Sundry field equipment.

TIMER START LEVERS

Spring loaded release levers for timers can be used for instant start release for F1B or power £10 each.

FUEL SHUTOFF VALVE - EXCLUSIVE TO FREE FLIGHT SUPPLIES

Spring loaded shut-off valve for timer operation, weight 5 grams £20.00 plus post.

TIMER MOUNTING SCREWS

Roundhead brass screws 1 x 1/4" and 2 x 3/8" - pack of 20 either size £2.75 per pack.

WING MOVERS - SPECIALS FROM VLADIMIR FEODOROV TO FFS SPECIFICATION

F1B wing movers, fully functioning to raise trailing edge of outboard wing panel, complete with mounting screws and full installation instructions, £12.50 each

SILICONE FUEL TUBE (METRE LENGTHS)

1.5 mm bore x 0.5mm wall (squash off for engine timers) £2.00 per metre.
 2.0 mm bore x 0.5mm wall (squash off for engine timers) £2.50 per metre

DATA CHARTS

To build seriously you need to be able to check out data simply and quickly. No longer will you have to look for that mislaid scrap of "dog eared" paper that contains the information. FFS have produced laminated cards with all the details that you need. The doubled-sided A4 card £2.00 each

CHART No. 3 Contains details on the servicing and maintenance of clockwork timers.

12. ELECTRIC

KP AERO MODELS PRODUCTS

Full range of electric items is available: Other KP Aero Models Products items section no 7 rubber accessories and no 10 CO2.

Note that there have been changes to battery technology this will mean that products will be either discontinued or repackaged with new LiPo batteries and control systems etc. Some NiCad cells are still available together with systems. When these stocks are sold they will not be replaced.

Also note that the products have been renumbered.

Old products

2	KP 01 kit incls prop, exclds cells and accessories.	£20.00
4	KP 02 kit incls prop, exclds cells and accessories.	£23.00
5	Mains Charger for Flight Charger (UK only)	£8.04
6	270 mAh single cell	£3.00
7	120 mAh cells welded pack of 3, 18 gms.	£7.50
9	270 mAh cells welded pack of 3, 40 gms.	£9.00
10	270 mAh cells welded pack of 4, 53 gms.	£12.00
11	KP.00 Gear train only (2.67:1 or 4.75:1 ratio)	£8.00
12	KP.01 Gear train only	£3.75
13	KP.02 Gear train only	£5.75
14	Fan moulding only	£8.20

New products

001	Ducted fan 44 mm dia. KP 02, 4.8 volt, 54 grams thrust	£13.20
002	KP 00 Motor + propeller	£5.10
003	KP 00 Motor & gear assembly complete with prop (2.67:1 ratio) Style 1 1mm shaft	£12.80
004	KP 00 Motor & gear assembly complete with prop (2.67:1 ratio) Style 2 2mm shaft	£12.80
005	KP 00 Motor & gear assembly complete with prop (4.75:1 ratio) Style 3 2mm shaft	£12.80
006	KP 00 Motor & gear assembly complete with prop (4.75:1 ratio) Style 4 1mm shaft	£12.80
007	KP 01 LiPo + Accessories	£35.40
008	KP 00 LiPo + Accessories	£31.95
009	KP 02 LiPo + Accessories	£40.50
010	KP 02 + Accessories	£36.25
011	KP 01 Motor/gear Assembly (4.25:1 ratio)	£7.15
012	KP 01 Motor/gear Assembly (6.25:1 ratio)	£7.15
013	KP 02 Motor/gear Assembly	£9.70
014	KP 00 Motor only	£4.60
015	KP 01 Motor only	£3.30
016	KP 02 Motor only	£3.80
017	Speed trimmer KP 01 only	£1.85
018	70mAh 15C Fullriver LiPo Cell	£2.60
019	90mAh 15C Fullriver LiPo Cell	£2.05
020	140mAh 15C Fullriver LiPo Cell	£2.15
021	200mAh 15C Fullriver LiPo Cell	£2.35
022	350mAh 15C Fullriver LiPo Cell	£3.20
023	300mAh 20C Fullriver LiPo Cell	£3.45
024	570mAh 20C Fullriver LiPo Cell	£4.25
025	60mAh 20C Fullriver LiPo Cell	£2.40
026	170mAh 25C Fullriver LiPo Cell	£2.35
027	180mAh 20C Fullriver LiPo Cell	£2.35
028	Pinion KP 00	£0.55
029	Pinion KP 01	£0.55
030	Pinion KP 02	£0.55
031	Gear 2.67 : 1 For KP 00 hole 1mm Style 1	£1.05
032	Gear 2.67 : 1 For KP 00 hole 3mm Style 2	£1.05
033	Gear 4.75 : 1 For KP 00 hole 3mm Style 3	£1.05
034	Gear 4.75 : 1 For KP 00 hole 1mm Style 4	£1.05
035	Gear 4.25 : 1 For KP 01	£1.05
036	Gear 6.25 : 1 For KP 01	£1.05
037	Gear For KP 02	£1.05
038	85 mm dia 45 pitch prop pack white 1 mm hole for KP00 direct drive or 2.67:1ratio	£1.05
039	85 mm dia 60 pitch prop pack black 1 mm hole for KP00 direct drive or 2.67:1ratio	£1.05
040	85 mm dia 45 pitch prop pack white 2 mm hole for KP00 4.75:1ratio	£1.05
041	85 mm dia 60 pitch prop pack black 2 mm hole for KP00 4.75:1ratio	£1.05
042	96 mm dia 60 pitch prop pack white 2 mm hole for KP00 4.75:1ratio	£1.05

043	96 mm dia 70 pitch prop pack black 2 mm hole for KP00 4.75:1ratio	£1.05
044	138 mm (5 3/8 in.) dia x 90mm (3.6 in) pitch propeller 2mm hole black	£0.50
045	150 mm (6 in) dia. x 105mm (4.1 in) pitch propeller tractor 2mm hole black	£0.70
046	150 mm (6 in) dia. x 105mm (4.1 in) pitch propeller pusher 2mm hole black	£0.70
047	178 mm (7 in) dia. x 120mm (4.7 in) pitch propeller tractor 2mm hole black	£0.70
048	178 mm (7 in) dia. x 120mm (4.7 in) pitch propeller pusher 2mm hole black	£0.70
049	138 mm (5 3/8 in.) dia x 90mm (3.6 in) pitch propeller (pack of 3) black	£1.10
050	150 mm (6 in) dia. propeller tractor – pack of 3 2mm hole black	£1.55
051	150 mm (6 in) dia. propeller pusher – pack of 3 2mm hole black	£1.55
052	178 mm (7 in) dia. propeller tractor – pack of 3 2mm hole black	£1.55
053	178 mm (7 in) dia. propeller pusher – pack of 3 2mm hole black	£1.55
087	Charger lead	£3.60
088	2.5mm switch jack	£3.60
089	2.5 mm Jack plug	£1.05
090	2.5 mm Jack socket	£1.05
093	Set of 4, 2 mm x 12 long screws, nuts & washers	£1.00
102	96 mm dia 70 pitch folding prop 1mm hole white	£1.05
103	96 mm dia 60 pitch folding prop 1mm hole white	£1.05
104	KP 00 Double motor/gear 2.67:1	£15.30
105	KP 00 Double motor/gear 4.75:1	£15.30
106	104 mm dia 75 pitch folding prop 2mm hole	£1.05
107	116 mm dia 90 pitch folding prop 2mm hole	£1.05
108	137 mm dia 115 pitch folding prop 2mm hole	£1.05
109	149 mm dia 130 pitch folding prop 2mm hole	£1.05
112	Time and speed electronic regulator for free flight models 35 sec	£17.90
113	Time and speed electronic regulator for free flight models 120 sec	£17.90
114	Time and speed electronic regulator for free flight models 10 min	£17.90
115	DF 32 Ducted Fan 32mm dia	£29.70
116	Feigao 7.35 KV Motor 12mm dia 1.5mm shaft	£20.25
117	Feigao 7.35 KV Motor 12mm dia with m2 adaptor	£21.30
118	DF 32 Ducted Fan 32mm without motor	£9.90
120	Brushed motor time and speed controller 10A	£21.95
121	JST Plug and Socket (unassembled)	£1.05
122	I Max B6 charger for 1-6 Lipoly packs	£35.00
123	LIPO Charger Lead for Imax B6	£2.50
124	JST Plug and Lead	£1.20
125	DF 24 Ducted Fan 24mm	£24.95
128	E 30 Timer	£17.90
129	E 36 Timer	£17.90
130	KP01 LiPoly	£4.45
131	KP02 LiPoly	£5.25
132	E 36 mk2 Timer additional facilities	£25.00

Separate LiPo Cells can no longer be sent through the mail. Only those cells that are supplied as part of a kit can be supplied in this manner. In future, all sales must be made in person on the field.

13. JET-X & RAPIER

JET-X

Jetex igniter pen (Produced by John Emmett) for wick free starting, needs a “C” size high capacity Ni-cad cell. Now in gold anodised finish for the Millennium! At the same price £22.99

Jete-x and Rapier model plans

See section 18 “Plans” for designs by Ian Dowsett, Malcolm Sharpe, Dick Twomey and Peter Lloyd. **See section 20 “Kits”** for Pel-Aero Zephyr.

14. TOOLS

DOUBLE EDGED CARBON (BLUE) STEEL RAZOR BLADES

Sharp edges: may be broken in half lengthways (take care). Edge width 1.455" (36.95mm). Blade thickness 0.004" (0.100mm). Pack of 10 £3.50 per pack.

DOUBLE EDGED STAINLESS-STEEL RAZOR BLADES

Sharp edges: may be broken in half lengthways (take care). Edge width 1.69" (43.00mm). Blade thickness 0.004" (0.10mm). Pack of 10 £3.40 per pack.

CARBON STEEL SINGLE EDGE RAZOR BLADES WITH SAFETY SPINE

Blade thickness 0.010" (0.25mm) pack of 10 £2.99 per pack.

METAL SCALPEL HANDLES

Small No.3. Large No.4 £3.99 each both sizes,

SCALPEL BLADES

No's. 10, 10a, 11 for No.3 handle. No's. 22, 23, 26 for No.4 handle. Pack of 5 blades £0.90 per pack

MICRO SAW BLADES

Saw blades that clip into the No. 3 scalpel handle. Very fine blades which are ideal for the precision cutting of plastics, wood, kit part detail and precise hole cutting.

MT011 Standard pack of 8 blades £8.00 MT012 Thin blades pack of 6 blades £6.00

DISPOSABLE SCALPELS

Plastic handle and blade £0.50 each

X-ACTO NUMBER 8 KNIFE

Lightweight knife with retractable blade £2.50 each
Spare blades, pack of 5 £1.50 per pack

DAVID COMBI PLANE

Razor plane - multi use, for smoothing & shaping - £9.99 each.
Blade thickness 0.015" (0.35mm) Pack of 10 blades - £4.00 per pack.

SURMANCO TUFKUT SCISSORS

For details see section no.3 Hi-Tech materials

HEAT SEALING IRON For details see section no.1 lightweight covering materials.

MODELLING PINS

Made in Czech Republic. Plastic head, safe and easy to use, very fine points. Box of 50- £4.50 per box

PERMA-GRIT TOOLS - TUNGSTEN CARBIDE

Sanding tools that last and last. The flexible strips can be cut and shaped to make your own cutting tools. The grit will cut and finish the majority of materials used in model aircraft.

Flexible sanding strip

FXT 103	2" x 11"	Fine Grit	)£9.35 each.
FXT 104	2" x 11"	Coarse Grit	)
FXT 106	2" x 5 1/2	Fine Grit	)£7.07 each.
FXT 107	2" x 5 1/2	Coarse grit	)

Hand tool

F101	9" x 1 1/2"	Fine Grit	)£8.30 each
F102	9" x 1 1/2"	Coarse Grit	)

Sanding Block

SB 140 5 1/2" x 2"	Fine one side, Course one side,	£16.75 each
SB 280 11" x 2"	Fine one side, Course one side	£25.99 each

Needle files

Standard NF1 set of 5 files	£23.99 per set.
Large LNF1 set of 5 files	£36.99 per set.
Handle for files, state NF or LNF	£3.06 each.

MYLAR

Film for covering plans and building boards to protect and stop glue adhesion 5 metre roll	£2.50 per roll
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POSTAL SCALES

Hand-held postal hanging balance – 100 gramme capacity	£3.00 each
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15. RETRIEVAL SYSTEMS

RETRIEVAL SYSTEM BATTERIES

Standard BR 435 batteries, lithium 3.0volt, cap.40mah. 4x35mm weight 0.8gms 10-12 days life. Use with Biotrack, Ruyter or Doring System etc	£1.50 each
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INSTALLATION PACK

Pack of materials (tube, pins and copper tape) to make holders for BR435 batteries £2.50.

See Section 23 - "How-To-Do-It" No. 12 - Radio tracking of free flight models which gives details on how to make the battery holders.

16 SUNDRY FIELD EQUIPMENT

MYLAR STREAMERS

Aluminised Mylar streamer 3/8" wide x 20' long, ideal thermal indicator	£2.50
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ORTHODONTIC ELASTICS

Quality rubber bands, ideal for many applications. (1/4" for d/t bands). In packs of 100. Dias. 1/8", 3/16", 1/4", 5/16" & 3/8" - £2.00 per pack. 1/2" - £2.50 per pack. 5/8" & 3/4" - £3.00 per pack.

17. PLANS

Note that all plans are sent folded and are plus post. Please remember that the details as shown with the plans listed below do not provide evidence of the provenance of the design with respect to eligibility to meeting vintage, nostalgia or classic class rules. Remember that these plans come from a myriad of sources and in some cases a little thought and imagination is required in the interpretation of some of the detail. Those plans from kits may exclude some details of sections, formers etc and will thus require a degree of interpretation. Only where stated are any kits of parts available. However, many of the materials needed are available through Free Flight Supplies.

For some of the plans laser cut kits of parts are available from Belair kit cutting phone 01362 668658 web site <http://www.belairdigital.co.uk/index.asp>.

For some of the rubber model plans Free Flight Supplies can provide custom made propellers enquire for details.

3-VIEWS

East Anglian Area Newsletter – A limited edition of scaled and dimensional drawings, 43 A4 size drawings, featuring free flight competition models originally published in the EAA Newsletter £5.00 per set.

Jorgen Korsgaard – Those of you who have seen them must agree that Jorgen produces superb 3-views that often appear in magazines such as "Vol Libre". Drawing representing 46 of these models are now available. There 61 A4 pages that include some full size drawings £6.00 per set.

Miscellaneous 3-views – A collection of drawings 40 in all built up over the years £5.00 per set.

FREE FLIGHT SUPPLIES COLLECTION

D. Aldridge

1. OMEGA 64" span "V" dihedral A/2 published January 1956 winner of the "Queen's Cup" £5.00

Bob Amor

2. LUCIFER The A/2 that Bob flew to 2nd place in the 1956 World Championships £5.00

Theodo Andre

SWINGER beginners F1A circle tow design (when the stock of plans is sold this design will no longer be available) £5.00

TWEETY P-30. 10, A3 pages of details of different variations on the basic model. £5.00 a complete set.

D. Andrew

27A EVEREST Classic A1 from Canada £5.00

Alexander Andruikov

3. AA30 (1520mm span, standard model), 4. AA31 (1920mm span, "long" model), 5. AA32 (1800mm span, as used by Oleg Kulakovsky to win the 1999 World Champs & World Cup) and the 2001 version of the 1800mm span model. Any plan £7.00

Howie Applegate

5A HONEY 32' span rubber powered sport model £5.00

Pete Arnould, "Dusty" Miller

96. CLIMAX 41" span fast climbing open power model £5.00

Slobodan Babic

6. PETREL 1957 World Champion A/2 76" span £5.00

John Barker

2A. LULU 50" span vintage glider, with instructions £5.00

6A FIFI a modern F1G 51" span £5.00

21A LULU Baby 30" version of LULU £5.00

Gordon Beal

7. OPTIMIST Classic A/2 glider £5.00

Eddie Black

97. URCHIN 40" span rubber model suitable for the BMFA 50 gramme rubber class (laser kit available see top of section for details) £5.00

M. Bridge

24A AIGLET 1956 Aeromodeller plan of the A/1 by Martin Bridge. For full kits See section 19 KITS. £5.00

A. Brooks

Y-BAR 1955 1.5cc power £10.00

Tim Bucher

From STICK AND TISSUE MODELER'S ALBUM VOL 2. For details and Vol 1 See Section 24 Books

84. HENDY HOBO. Giant rubber scale 1929 low wing open cockpit monoplane 48" span £6.50

85. CURTIS ROBIN. 1/2 A Texaco scale semi-scale based upon the 1937 Comet kit 58" span £6.50

J. Buckeridge

8. CATS WHISKER. 1946 lightweight rubber. £5.00

9. LIGHTWEIGHT DURATION (laser kit available see top of section for details) Also a Spencer Willis kit is available £5.00

Andrey Burdov

10. BIRD DOG P30. A high performance model. £5.00

11. HOT DOG P30. A hi-tech version of the BIRD DOG design. £5.00

12. COUP DE GRAS (LAWN MOWER) COUPE. A high performance model. £5.00

Peter Buskell

21A 1987 free Flight Nationals 1/2A winner £5.00

Don Butler

13. FUGITIVE A/2 from the classic period £5.00

Geoff Byrd, Tony Brooks, Maurice Hansen, Geoff Lynford

91. LAST STRAW A simple classic glider built overnight by the GB for the 1953 Championships after their models were lost on the journey to Yugoslavia £5.00

E Chastenuf

19A 20 MINUTE GLIDER 53" span vintage glider £5.00

Victor Chop

14. YB-38 victor's 1987 world F1A Championships winning model. Traditional structure from the pre-bunt era but still a very good model £5.00

Radoslave Cizek

15. XL 56B/58/59 Wakefield from the classic period 50 & 80 Gramme versions shown. £5.00

26A La Mouette Classic A/1 £5.00

Mike Cook

16. NORTHERN LINE plan from Aviation Modeller International for a modern hi-tech F1A £5.00

Tony Cordes

7A LITTLE HINNEY A very good Standard 50" span F1H £5.00

Andy Crisp

17. MILLENNIUM FLASHBACK. Andy has updated and revised his Flashback for the Millennium. Andy's uniquely styled drawing together with building and flying instructions. Construction based upon many of the materials and components that are available from Fee Flight Supplies. On receipt of an S.A.E. I will send copies A4 sized 3 views of the above before you commit to a purchase. £5.00

Marc Croome

18. ORION 66" span hi-tech open rubber model £5.00

Dennis Davitt

19. DIG 150. Contest winning Coupe d'hiver, 2 versions shown £5.00

Ian Dowsett

Jetex plans

20. ARROW 100. Contest winning model for the 100 size unit £.00

21. ARROW 50. A reduced size version for the 50 £5.00

22. FIZZLE QUICK. Two in one. Open frame fuselage contest models for the 50 & 100 £4.00

23. FIZZLE BUG Simple all sheet model for the 50 £2.00

F.G. Draper & A. R. McClean

24. TRUMP CARD. 1950's 30" span rubber model £5.00

Arne Ellila

25. THE 1949 WINNER. This plan is drawn from the sketches and original drawings still on exhibition in the Science Museum of Helsinki. £6.00

26. THE 1950 WINNER Complete with a write of the 1950 contest £6.00

Ted Evans

8A THE ROCKET 1938 Wakefield 43" span £5.00

9A THE VICTRACE 1939 Wakefield 44" span £5.00

10A THE JAGUAR 1946 Wakefield, the winner in 1948 45" span £5.00

Guido Fea

27. LUCKY STRIKE 1950 Wakefield by Guido Fea (Italy). £6.00

Mario Feruglio

28. VELEGGIATORE complex but extremely attractive Italian early 1960's A/2 £5.00

George French

29. 1/2A TRAIN, a 1/2A mini version of George's famous 1960's FAI Night Train. (original drawing) £5.00

98. The Aeromodeller plan version £5.00

George Fuller

STOMPER. 1953 design for 1cc - 1.5cc engines £6.00

32. DIXIELANDER classic power model, the original Yeoman kit plan with instruction leaflet (laser kit available see top of section for details) £5.00

A commemorative "T" shirt is also available £7.50

Commemorative sticker £1.50

31. DIXIELANDER classic power model, fully detailed drawing the latest version with auto rudder £5.00

Enzo Giusti

33. LOERENZO. This model from Italy was probably one of the most elegant A/2's ever built, placed 4th in the 1955 World Championships. Drawn up by Geoff Hindley and certified as correct by the designer £6.00

Walter Hach

82. BEGINNER F1K. Plans from the CO2 ENTWICKLUNGSGRUPPE AUSTRIA of Jedelsky construction	
£3.00. Pack of 6 3-views of competition models with construction article	£3.00.
Combined package	£5.00.
<u>Max Hacklinger</u>	
34. URUBU A/2 Typical German. One of Max's early models "V" dihedral and pod nose to meet cross section requirements.	£4.00.
35. MP12 A/2 Max's last A/2. Sheeted wing and turbulator published January 1955	£5.00.
<u>C. J. Hancock</u>	
36. SHORTY A/2 Very short nose model published April 1955	£5.00.
<u>John Hannay</u>	
37. TOPSCORE A/2 John was a regular on the UK team in the 50's this was the final development of his design. 73" span published in January 1958	£5.00.
<u>Borge Hansen</u>	
28A Pjerri Classic Danish A/1	£5.00
<u>Hans Hansen</u>	
100. AURIKEL The 1953 A/2 winner includes building instructions.	£5.00
<u>Borge Hansen</u>	
11A PJERRI 75 "V" Dihedral 42" span A1	£5.00
<u>Albert Hatful</u>	
32A MERCURY a vintage rubber model that predates the SENATOR Spencer Willis full kit also available See section 19 KITS. Finished propeller units are available see Section 6 RUBBER ACCESSORIES)	£5.00
<u>Stan Hill</u>	
29A Classis A/1 from the USA	£5.00
<u>W. Hinks</u>	
99. SIMON 1949 Gutteridge Trophy winner 41" span	£5.00
<u>Dave Hipperson</u>	
81. SKYWALKER open rubber ideal design for the latest BMFA 50 gramme rule	£5.00.
<u>D. Holt</u>	
38. CORSAIR 48" span rough weather A/2 published June 1953 winner of the "Thurston Trophy"	£5.00.
<u>Hobby kits</u>	
31A CARIOCA Italian A1	£5.00
<u>Reino Hyvarinen</u>	
90. SANS EGAL 80" classic A/2 from Finland	£5.00
<u>Gianfuero Janni</u>	
39. SANCHO PEPE. 1949 World Championships Italian team member.	£6.00.
<u>Rene Jossien</u>	
30A EROS 1953 Vintage French Couped'hiver and open design	£5.00
<u>J.G.Joyce</u>	
94. NORD 50" span vintage A/2	£5.00
<u>Jiri Kalina</u>	
40. PEDRO & HUGO a pair of chuck gliders from Jiri Kalina of The Czech Republic	£5.00.
<u>KSAK-3</u>	
41. SUNNAVIND 1946 38" span lightweight glider	£5.00.
<u>Paul Lagan</u>	
42. KIWI 2. 1969 A/2 similar in style to the Lively Lady and Wishbone designs. 2 versions shown	£5.00.
<u>Silvio Lanfranchi</u>	
43. SWISS MISS 58" wing-span old rule FAI model flown successfully by Silvio and Arthur Collinson. Published December 1954	£5.00
<u>P Law</u>	
44. TADPOLE 78" A/2 elegant long tail moment published in July 1953	£5.00
<u>J.A. Ledezmo & Pablo E Olson</u>	
45. OP 18 A high-tech structure F1H from Argentina featuring all the latest ideas including bunt.	£4.00
46. OP 18.1 A modified version of 18 featuring all the latest ideas including bunt.	£4.00
On receipt of an S.A.E. I will send copies A4 sized 3 views of the above before you commit to a purchase.	
JAL 28 & OP5.1. A pair of chuck gliders. OP5.1 includes a bunt mechanism. The pair of designs	£1.00.
<u>Geoff Lefever</u>	

47. OTTAIR 80gram Wakefield flown in the 1956 Championships	£5.00
48. FEVAIR 50gram Wakefield flown in the 1958 Championships (designer's original plan)	£5.00
49. 1963 Wakefield Team place 1965	£5.00
50. 1967 Wakefield first of the "long" models	£5.00
51. ALTAIR 1955 A/2 team qualifying glider	£5.00
52. MANTIS A 9-foot span vintage glider	£5.00
53. OPEN RUBBER MODEL Mid 1960's model, a simplified Wakefield	£5.00

Rudi Lindner

54. SPINNE the 1954 World Champs A/2 winner, the Graupner plan plus full instructions in German	£5.00
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Peter Lloyd

NOVAIRIE F01H for the experienced builder.	£10.00
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JAZZMAN A SLOP or AMA "A" Gas design based upon the DIXIELANDER.	£10.00
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83. J-30 A 30" span pylon layout Jetex 100 size model	
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£10.00

MORRIS DANCER DLG ver 2.1 - Competition Discus launched Glider jokingly known as "twirling hurling", discus launched gliders are all the rage in free flight hand launched glider circles (recently banned in New Zealand) because of the performance gained; exceeding what a conventional "smaller" javelin launch model (used for the last 60 years) can achieve. You can now join the "DLG Generation" with the Morris Dancer. Available as a full-size plan, this model has the largest wing area (10.25 sq dm or 159 sq") of all the 36" span plans or kits on the market and comes with 2 styles of wing construction. Unfortunately, it is not a beginner's model. 35" projected span (89cm), length 32.5" (83cm), weight 110grams.

£10.00

John Malkin

55. MISER 50/40 gram Wakefield from New Zealand flown in several champs in the 60's	£5.00
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Norman Marcus

56. BAZOOKA 30" Span mini vintage rubber model laser kit	£5.00
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57. EUREKA 50" Span 1.5cc – 2.5cc classic power model	£5.00
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4A DINAH-MITE 30" Span mini vintage rubber model complete with copy of the published article	£5.00
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Bryan Marsh

58. SILVER EAGLE (NZ) 1953 Wakefield entry	£6.00
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Andrew Moorhouse

A selection of Andrew's CO2 designs

HELL'S ANGEL 25" span 3/8 scale version of Ron Waring's 1946 design 2 sheets	£5.00
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SCRAM 23" span 3/10 scale version of Ray Heit's 1938 design 2 sheets	£5.00
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PUFFIN 24" span OD cabin model 2 sheets	£5.00
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Vin Morgan

20A P30. A state of the art and a regular contest winner in "Oz"	£5.00
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Edward Naudzuis

12A REARWIND SPEEDSTER 1940 scale rubber 35" span	£5.00
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John O'Sullivan

59. EXECUTIONER 1.5cc Open power model.	£5.00
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Ragnar Odenmann

93. VIKING vintage A/2 from Sweden	£5.00
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Dave Posner

60. DREAM WEAVER 56" span classic power model	£5.00
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Edgardo Sadorin

61. MERAU 1949 World Championships Italian team member placed 2nd	£6.00
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Paul Seely

62. 36D A proven contest winning F1H	£5.00
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Malcolm Sharpe

63. LITTLE PHUTT 1951 Jetex 100 power Australian Jubilee state champion	£4.00
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Reid Simpson

16A. TOP KICK Traditional A1 48" span	£5.00
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Per-Thomas Skjulstad

64. EX-PLANE Per-Th's answer to the Window Plane. An unusual large chord geodetic PGI trim model	£3.00
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Vic Smeed

65. HUSSY Vintage 1/2a size pylon power model	£5.00
66. GOLDEN WINGS A/1 including full building and flying instructions (laser kit available see top of section for details)	£5.00
<u>Ray Smith</u>	
18A. 19421 Mulvihill winner 36" span	£5.00
<u>Wally Simmers</u>	
15A GOLLYWOCK mini vintage rubber model	£5.00
<u>Sune Stark</u>	
67. 1951 WINNER. This is from the original drawing of the model flown, photos taken at the event feature a different model.	£6.00
<u>Ed Stoffel</u>	
13A THE ARISTOCRAT Wakefield 44" span	£5.00
<u>K.L.Stothers</u>	
86. GOSSAMER 32" 0.5 -1.0cc Vintage power model publisher in July 1949	£5.00
<u>Sal Taibi</u>	
17A. STARDUSTER Hi-thrust 42' span 1/2a power model	£5.00
<u>Hans Thomann</u>	
68. AQUILA 80" wing-span assymetric wing A/2 published March 1958	£5.00
<u>Dick Twomey</u>	
69. FIRECREST SPECIAL. Jetex 100 model. Winner of the 1st Jetex International Competition (1949).	£5.00.
70. STILETTO. Jetex 200 model used to qualify for the 1953 ICI Challenge contest.	£5.00.
<u>Igor Vivchar</u>	
71. PRIMA. A plan of the kit model complete with instructions. Full kit available see section no. 20 kits. On receipt of an S.A.E. I will send an A4 sized 3 view of the Prima before you commit to a purchase.	£5.00.
<u>Jim Waldron</u>	
89. PELICAN 73" Classic glider	£5.00
<u>Ron Warring</u>	
14A 1946 CONTEST GLIDER 60' span	£5.00
<u>K. M Webster</u>	
72. K-18 78" wing span 1960's A/2	£5.00
<u>Barry Wheeler</u>	
ELIMINATOR 45" 1.5cc power Published Aeromodeller 1953 (laser kit available see top of section for details)	£10.00
<u>Dave White</u>	
25A BARRON KNIGHT II Classic Coupe d'hiver	£5.00
<u>Harry Wilkinson</u>	
73. BORDER REIVER_The late Harry's open rubber model drawn up by Terry Rose to support an article in the BMFA News. For details of how to carve the propeller See Section 23 - "How-To-Do-It" No 15 plan	£5.00
<u>Nev Willis</u>	
1956 A/2 design Neville has re-visited his successful model. The plan has been drawn from the original sketches, an ideal model for the classic period events.	£6.00
<u>Spencer Willis</u>	
If you prefer to not buy the kit. plans and instructions are available as separate items below.	
SWEET "P20" P20 rubber model, with building instructions.	£5.00
SWEET "P30" P30 rubber model, with building instructions.	£5.00
87. P.SUPA "P30" P30 contest rubber model, with building instructions.	£5.00
88. MINI-MANX A simple to build 40" span rubber powered tailless model, with building instructions.	£5.00
95.MAYZEE P30/small open tailless, 2 versions shown	£5.00
23A FLUKE Modified F1G to Aile Basse configuration	£5.00
Note that finished propeller units are available see Section 6 RUBBER ACCESSORIES. For full kits See section 19 KITS.	
<u>Don Wilson</u>	
74. 1952 ENTRY. NZ Wakefield entry (NZ)	£6.00
<u>Charles Wood</u>	
92. YANKEE VI 1951 Wakefield. (vintage legal)	£5.00

Note that finished propeller units are available see Section 6 RUBBER ACCESSORIES. For full kits See section 19 KITS.

Mike Woodhouse

- 75. CLASSIC WICHITA A/2 developed and flown in the late 50's based on the "Lucifer" & "Altair" (laser kit available see top of section for details) £6.00
- 76. WICHITA A/2 Developed through Sixties and Seventies, many times contest winner. £5.00
- 77. WHIFFLER A/2 Seventies update of the WICHITA. £5.00
- 78. WICHITA 79/WHIFFLER-2 A/2 "D" box wing, Russian hook, etc. £5.00
- 79. WHISKAS Wakefield - 5 different plans 1980, 1981(2), 1984(2) all featuring several variations on each plan from the long series of successful 40 gm models (will convert to 35 and 30 gm rules) £3.00 each plan.

Roy Yeabsley

- 80. NEBULA. 72" span advanced for its time A/2 published July 1954 £5.00

A Young

- 3A "1944 FLIGHT CUP WINNER £5.00

"ATLANTA AERO MODEL CO" (Howard Towner plans)

- 101. BELL AIRCOBRA 1 601Sqd 26" span £5.00
- 102. BOULTON & PAUL DEFIANT 27.5" span £5.00
- 103. BRISTOL BLENHEIM IV 28" span £5.00
- 104. HANDLEY PAGE HAMPDEN 29" span £5.00
- 105. SHORT STIRLING 37" span (2 sheets) £6.00

ELITE MODEL AIRPLANE SUPPLIES

- 201. NO.2 GLIDER 36" span £5.00

"CLOUDCRAFT"

- 301. MILES MAGISTER 15" span £1.00
- 302. CLOUD ZENITH 36" span vintage rubber £5.00

"CONTEST KITS"

- 401. INCHWORM 1954 A/2 (laser kit available see top of section for details) £5.00
- 402. EMPRESS 1957 A/2 £5.00
- 403. CALYPSO Open power model 1.5cc complete with instructions £5.00

"KEIL-KRAFT"

- 501. ACE 30" mini vintage rubber model £5.00
- 502. AJAX 30" mini vintage rubber model £4.00
- COMPETITOR 32" 1946 rubber cabin re-drawn by Paul Straney from the kit plan £10.00
- GYPSEY 40" 1949 Wakefield re-drawn by Paul Straney from the kit plan (laser kit available see top of section for details), Note that finished propeller units are available see Section 6 RUBBER ACCESSORIES.) £10.00
- 503. ROVER 40" sport power model £4.00
- 504. SENATOR. 30" wing-span lightweight rubber, a very successful flyer. Kit plan complete with notes by Ian Davitt on how to make this model a contest winner (laser kit available see top of section for details. Spencer Willis full kit also available See section 19 KITS. Finished propeller units are available see Section 6 RUBBER ACCESSORIES). £5.00
- 505. STAR JET. By Ian Dowsett. Sport model designed for the Payloader, complete with instructions £4.00
- 506. CHIEF. Classic A/2 glider by Bill Dean £8.00
- 507. INVADER 40" vintage glider £5.00
- 508. CAPRICE 51" classic glider by Nev Willis £5.00
- 509. MINIMOIA 50" glider, no forma parts shown £5.00
- 510. SCORPION 44" petrol sport model £5.00
- 511. STRATO BABY Small rubber power by Bill Dean £5.00

"MERCURY"

- 601. SWAN 42" span lightweight glider £5.00

602. MALLARD 48" span power model (includes parts sheet0	£5.00
603. MENTOR 36" span rubber model	£5.00
604 TEAL Hi-Thrust line 0.8cc power model 37" Span (2sheets)	£5.00
605 MARAUDER A/2 65" span (2 sheets)	£5.00

"MEGOW"

1101. KORDA 1939 winner	£5.00
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"VERON"

1201. FLEDGLING 24" span rubber model	£5.00
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Note that finished propellers are available see Section 6 RUBBER ACCESSORIES.

"SKYROVER" & "SKYLEADER"

The plans below were designed and developed in the 40's and 50's many by Peter Kelsey. The drawings are produced both for historic interest as well as for construction, some plans will require a degree of interpretation. Wing spans ().

"Skyrova" Junior series any of the plans	£1.00
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Flying scale – FAIREY FIREFLY (12"), DeHAVILLAND TIGER MOTH (10"), AVRO AUSTER (14"),
HAWKER TEMPEST (12")

Duration models. RUBBER (16"), GLIDER (20")

"Skyleader"

701. SWALLOW cabin duration (20")	£1.50
702. FALCON cabin duration (23")	£1.50
703. GRASSHOPPER (13")	£1.50
704. ZIPPER power (44") 2 sheets	£5.00
705. JUNIOR ZIPPER power (32")	£3.00
706. BANTAM Power by Ron Warring (44") 2 sheets	£5.00
707. BEGINNERS rubber duration (26")	£3.00
708. CAVALIER rubber duration (30")	£3.00
709. CADET rubber duration (24") each plan	£3.00
710. FLYING WING rubber powered (32") 2 sheets	£5.00
711. 1945 WESTON CUP winning glider (50")	£4.00
712. NORTHROP BLACK WIDOW (24")	£4.00
713. KORDA 1939 winner	£5.00
714. CANBERRA Jetex 100 21" span	£4.00

DON DELOACH PLANS

The plans described below as drawn on computer using CAD software.

POLECAT MKX by D. DeLoach U.S. NATS winner in '89, '90, '91, '05 and U.S. senior record holder. Slow but relentless climb with 4-5 strands of 1/8" rubber. Short kit available see section 19 kits

1954 UNLIMITED by Ted Becker, U.S.A. From 1955 Zaic Year Book. 145 square inch wing, very long Warren truss fuselage, MVA 301 wing section.

COPACETIC 1951 Wakefield by Doug Moran, U.S.A. From 1951/52 Zaic Year Book. Long warren truss fuselage and high A/R wing. Very competitive Nostalgia Wakefield.

W 55/5 Team Wakefield by J. Altmann, Germany. 4th place in 1955 W/C flyoff. Very lightweight and sleek; fantastic glide with 7% thick Benedek wing section.

1301. SUPER PEARL 202E - E36 Check out <http://www.modelaviation.com/superpearl> for complete review
Short kit available see section 19 kits Boom available see section 3

1303 SUPER PEARL 202EF - E36 EF (extra fast) Geodetic wing to handle faster speeds. Short kit available
see section 19 kit Boom available see section 3

1302. SUPER PEARL 222E - E36 a larger version of 202 Short kit available see section 19 kits Boom available
see section 3

JIM O'REILLY MODEL PLANS

The plans described below as drawn on computer using industrial strength CAD software. In addition to pleasing appearance, they offer outstanding accuracy, with formers and ribs that fit the structures and contours accurately.

Old-timer rubber powered

801. EUGENE Ed Lidgard wing span 43.5" wing area 190 sq. ins.	£5.00
802. PUSS MOTH Lanzo with RAF32 that Chet originally used.	£5.00
803. C FUSELAGE Lidgard is published in the Zaic MODEL AIRPLANE MEET IN PICTURES.	£5.00
804. HEOSLER HIFFLER Bob Cahil's 1935 300 sq. in. combo fuse & stick. Earliest folding prop.	£5.00
805. FLYING ACES MOTH 24 in. W.S. Commercial rubber.	£5.00
806. 52 TEAM WAKEFIELD Ed Lidgard An 8 oz. wake. 1953 Zaic year book page 65.	£5.00
807. ULTRA CLODHOPPER Jim Cahill '48 team Wakefield. An 8 oz. wake	£5.00
808. WANDERER Art Horak from 3-'45 MAN, an FAC OT stick 30" wing span.	£5.00

Old-timer gas

809. ALERT Michael LaTorre's for 0.29/0.30	£5.00
810. SWOOSE Jack Roeser's in Bantam 0.19 size as modified by Parmenter & others.	£5.00

Others

811. TUBULAR BUSTARD is an AMA P-30 has a thin highly cambered airfoil with a wing chord of 4.75".	£5.00
812. SNOOTY 1/2A gas. 290 sq in. wing area for 1/2A schneurle.	£5.00
813. BOULTON & PAUL DEFIANT Modified Stahl Half shell fuselage is replaced by longerons & formers	£5.00
814. TUBERSTAKE III Latest 250 sq. in Mulvihill.	£5.00

TERRY KING PLANS

Over many years the late Terry King drew and redrew many plans for his own pleasure and building. These plans are drafting masterpieces. It was sad to loose Terry but we have these plans in his memory. All Terry's plans are price at £5.00 plus postage,

1400. T. D. COUPE by Theodore Dykzeul. 64" petrol powered cabin model from the "Model Airplane News" October 1936.

1401. SMOOTHIE Hank Cole 43" span rubber powered cabin model. From "Air Trails" September 1942.

1402. THE CRUISER C. A. Rippon 45" span semi scale low wing cabin rubber powered model from the "New Model Aeroplane Manual".

1403 FAIRY FACULA S. R. Crow 52" span high wing cabin rubber powered model. "Model Aircraft Supplies" kit plan.

1404. GB3 Bob Copland Wakefield "Premier Aero Kits" plan 1938.

1405. KORDA'S WORLD RECORD HOLDER Dick Korda. "Burd Model Airplane Co" kit plan.

1406 CANADIAN WAKEFIELD Fred Bower Frank Zaic article in June 1940 issue of "Popular Science".

1407 MICK FARTHING MKII From a small-scale drawing in the September 1942 "Aeromodeller".

1408 THE PUSHER PUP C. A. Rippon 33" span rubber powered pusher "Premier Aeromodel Supplies" kit plan.

1409 THE NORTHERN STAR 38" span rubber model 1936 "Premier Aeromodel Supplies" kit plan.

1410 THE CRUISER PUP C. A. Rippon 29" span version of the Cruiser from the "Premier Aeromodel Supplies" kit plan.

1411 THE CONDOR CLIPPER 30" span rubber powered from the 1936 "Northern Model Aircraft" kit plan.

1412 JUDGE WAKEFIELD A. A. Judge from "International Model Aircraft".

1413 1939 ENGLISH WAKEFIELD Reg Parham drawn from the original plan.

1414 LANZO'S RECORD HOLDER 64" span rubber model "Century Model Aircraft" kit plan 1945.

1415 GYPSY Earl Stahl 1942 44" span Wakefield from "Flying Aces" September 1942.

1416 1936 WAKEFIELD Denis Fairlie drawn from the loaned model.

1417 CONQUEST IV Alwyn Greenhalgh 1936 Wakefield drawn from the loaned model.

1418 AV-46 Ant Voratek and Rud Vesely 1.9metree span glider from 1946.

1419 KANGA DRAGONFLY 29" span rubber model from 1937.

1420 ISIS A. F. Holberg 44" span Wakefield from the 1941 "Aeromodeller"

1421 1939 WAKEFIELD by Norman Lees and Len Stott

1422 FIREFLY Canadian 1939 rubber power record holder

1423 THE CORBEN SUPER ACE Rubber power from the Peerless Model Airplane Company
1424 MS PRIVATEERII Newcastle Model shop power model
1425 1936 MULVIHILL by Bruce Luckett
1426 THE PREMIER LION petrol power model
1427 AUSTER J4 Powakits

MSP PLANS

Drawn by the late Martyn Pressnell, a collection of model aircraft designs selected for their aesthetic qualities or unique origins. All drawings are A0 size, some as twin plans. The list below includes Vintage Models generally pre 1951 and Classic Models 1951 to 1961. Martyn is now passed on, when these plans are sold there will no more.

POPULAR PLANS - £7.00

MICK FARTHING 1942 The 40 in span Lightweight Contest rubber model with a diamond fuselage. Redrawn from an early source drawing, now as a fully developed plan showing all details. A model to the older FAI specifications, about Wakefield size.

MICK FARTHING'S 'THE PAPER BAG' This is the unique plan of the late Mick Farthing's last lightweight rubber model of 1946. The very light machine had a near vertical climb and extended duration in fairly calm conditions. Produced from the designer's working drawing. Meets SAM Small Rubber class rules.

ODENMAN'S 1950 NORDIC A2 Swedish Championship glider, placed second in the first World International in 1950. Acknowledged trend setter, probably the best vintage Nordic A2 glider before the Classic era of 1951. Published in Sweden.

SENATOR 1950 RUBBER Designed by Albert Hatfull and kitted in 1950. Probably the most successful kitted rubber model of all time. Renowned for its stability and contest performance, with 30 in. projected span (32 in. true span) and tip dihedral. Twin plan with the ACE.

ACE 1950 RUBBER Designed by Bill Dean and kitted in 1950. Reliable and attractive beginner's model of 30 in span and vee-dihedral wing. Drawn with traditional balsawood free-wheeling propeller. Twin plan with SENATOR.

ENGLISH VIKING 1953 A2 GLIDER Designed by Bill Farrance after his experience with the GB Team at the 1952 World Championships in Austria. Capable of a full 4 minutes from the 328 ft towline, an acclaimed glider of proven performance, twice winner of the SAM Radislav Rybach trophy. Published in 1953 and compliant with the SAM Vintage specification.

FRED BOXALL'S 1956 OPEN RUBBER MODEL One of the most successful open rubber models of its time, designed by this highly respected British team member. Winner of the Model Aircraft Trophy at the 1958 British Nationals. Potentially as capable today with 75gram rubber as a BMFA Rubber class model. Approved by the Bournemouth MAS for Club Classic Rubber events. Twin plan with Boxall's SEAPLANE.

FRED BOXALL'S SEAPLANE (1965) Completing this duo of contest machines, commemorating Fred Boxall The Seaplane established itself in this challenging form of flight, constructed in his inimitable style, guaranteed to fly well. Twin plan with the 1956 OPEN RUBBER MODEL.

KINGFISHER & NUTTY. The 1956 glider designs of the later Peter Giggles and Mavis Pepper, remarkable for their list of competition places including two times winner of the Thurston Cup at the 1957 and 158 Nationals. In scope of SAM Classic glider events.

JACK MCGILLIVRAY'S LIGHTWEIGHT 1958 The ultimate Canadian lightweight rubber model of 36 in. span, V-dihedral wing, with jig-built diamond box fuselage. Two-piece wing to avoid damage and for easy transport. Approved Bournemouth MAS Club Classic design. A challenge to the discerning builder, or with simplified construction for the BMFA Rubber class. Twin plan with WINDING BOY II.

CAPRICE 1959 GLIDER The renowned lightweight glider of 51 in span, designed for kitting in 1959 by Neville Willis. The most successful competition glider ever kitted, with innumerable wins to its credit. A favourite with aeromodellers worldwide. Twin plan with GAUCHO.

GAUCHO 1960 POWER DURATION A first class model for 1.5 cc engines. Designed in 1959 by Neville Willis, has proved an ideal kit introduction to free flight power duration. A classic model suited to British Power events today. Twin plan with CAPRICE.

VAKUSHNA 1959 A2 Designed by Brian Dowling this glider won the 1960 Pilcher Cup along with other successes. It should be regarded as a straightforward and satisfying build, very suited to rough British weather Accepted for SAM events but not meeting BMFA publication requirements.

NUMBER 96A A Classic glider designed by the members of the St Albans MAC in 1959. This was an “Open” glider design larger than A2, at 84” wingspan. It enjoyed considerable competition success over three or more seasons, being published as a plan in 1962. This is an ideal BMFA Glider, or potentially a SAM Classic Glider today. It would also be an ideal floater for less windy R/C slope soaring.

HI-START GLIDERS 2013 Includes John Gorham’s Avenger classic A2 of 1952, Neville Willis’ Caprice classic lightweight glider of 1959 and Odenman’s vintage A2 of 1950. HI-START GLIDERS 2014 Includes J Bennett’s Satu vintage A2 of 1950, the Frog Petrel beginner’s kit glider of 1964 and Brian Dowling’s Mad’s Dream classic A2 of 1959

COLLECTOR’S PLANS - £10.00 EACH WITH HISTORICAL NOTES

HERMES MAJOR A 150% enlargement of the 1949 HALFAX HERMES, the purposeful high wing sport model, designed by John Magson for Halifax Models of Halifax in 1949. In the true vintage style but sleek to capture the competitive thrust of that time. Very suited to Texaco type events or for stooing around. Designed for radio assist by Martyn Pressnell.

FRANK LOATES’ 1949 WAKEFIELD The Canadian Wakefield that placed 5th in the World Championships staged at Cranfield, England, in 1949. A distinguished model of attractive appearance, and with a double-bladed folding prop.

BORJE BORJESSON’S 1949 WAKEFIELD The Swedish Wakefield which placed 6th in the Championships staged at Cranfield, England, in 1949. A semi-streamlined, triple finned, shoulder winged model with a free-wheel prop. The most visually attractive in the top group.

GHOST WAKEFIELD 1951 John Gorham’s 1951 Wakefield, produced from photographs and in accordance with the original working drawings. One of the most successful rubber models from the early 1950’s. Suitable for 75gram motor as defined for Classic models from 2007.

RON WARRING’S 1952 WAKEFIELD The geared geodetic model, developed by Ron Warring for twin motors, being the ultimate design in his long series of famous Wakefields. Drawn from the original model and contemporary sources.

NIGHT TRAIN Mk II 1960 George French’s Night Train which pioneered the use of VIT systems in the UK to control the power-on trim of FAI models. Coming at the end of the Classic era it was to prove immensely successful in future international events. A most attractive model with elliptical surfaces, it will perform well in Classic and SLOP events today.

DISCONTINUED PLANS

The following will be discontinued when stocks are exhausted

1954 INCHWORM Designed by Mick King and later kitted by his company Contest Kits. Probably the most successful A2 glider design of its era in the UK, with countless contest wins to its credit. Many innovative features.

EMPRESS 1957 A2 The very attractive semi-scale A2 sailplane, kitted by Contest Kits in 1957 and designed by Mike King. The drawing defines the original kit model of 78 in. span with two-piece wing, including the option to build a compact R/C slope soarer version.

CZECH SCALE PLANS

You will have seen the photos in the magazines over years and no doubt wondered at the excellence of these models. Now buy the plans. The range is being steadily added to, so keep in touch for additions to this exclusive range of drawings. Most of the models are designed and drawn by either Lubomir Koutny or Pavel Stránik. Apparently, they have some 400 different designs! Suggestions are welcome re additions to the selection. Most of the popular WWI and WWII aircraft are available. Lubomir's or Pavel's comments are appended. Please be aware that these plans are not for the inexperienced model builder. All plans plus post.

PEANUT (WING SPAN 13”)

France

999. EDOUARD NIEPORT (1910/11) Early monoplane has flown 90secs £1.25

999. HELIO SUPER COURIER High wing monoplane has flown 90secs £1.25

Finland

PIK-21 An excellent flyer, has done 98 seconds at a contest in Prague with the 140mm prop. With 160 mm will do over 120 sec.in a high hall. Plan has been agreed with documentation from the designer of the full-size aircraft. £1.25

Italy

MACCHI M67 (1929) This was a superb Schneider Trophy seaplane racer. This Peanut is also superb but not easy to build. The model has flown over 60 secs. Scale judges award high points for static. £1.25

Russia

SU26M Aerobatic monoplane will fly 60 secs. £1.25
 ZLIN 50M Long nose version of aerobatic aircraft. £1.25
 ZLIN 526AFS Very simple to build but a good flying model. The plan is very basic but many models have been built by pupils at Lubomir's school. All models have flown very well. £1.25

1/20 SCALE [APPROXIMATE WING SPANS IN ()]

Brazil

901. EMBRAER TUCANO (22") Low wing, 2 seat trainer £3.00

Czechoslovakia

902. AVIA B-534 (19") Pre-war biplane fighter 2 versions shown £3.50

Finland

903. VL PYORREMYRSKY (21") WWII fighter £3.00

France

904. ARSENAL V6-39 C1 (22") WWII fighter. Easy to build. An excellent flying model. £3.00
 905. BREGUET 820 (30") Twin, excellent flyer £4.00
 906. CAUDRON C714 (18") Low wing £3.00
 907. NIEUPORT 28 C1 (16") WWI fighter £3.00

Germany

908. ARADO AR240 (28") Twin engine fighter £3.50
 909. DONIER DO335 (37") "Push-Pull" fighter £3.50
 910. DORNIER DO435 PROJECT Development of the DO335 £4.00
 911. FIESELER STORCH BIS F1256 (29") Luftwaffe Observation (also P.30!!) £3.50
 912. FOCKE-WULF FW189 (35") Luftwaffe twin engine, twin boom observation £5.00
 913. FOCKE-WULF FW190 A4/R6 (21") WWII fighter £3.00
 914. FOCKE-WULF FW190 D9 (21") "DORA" last version of the FW190 £3.50
 915. FOCKE-WULF TA152H (28") Long nose version of the best of the German WWII fighters £3.50
 916. FOCKE-WULF TA154 V7 (31") Luftwaffe "Moskito" £3.50
 917. FOKKER DRI TRIPLANE (14") WWI fighter £3.00
 918. FOKKER DVII (17") "Red Baron" WWI fighter £3.00
 919. FOKKER DVIII (17") WI Monoplane can fly 70 secs the "Flying Razor" £3.00
 920. FOKKER V27 (20") High wing monoplane end of WW1, long engine (in line) £3.00
 921. FRIEDRICHSHAFEN FF43 (21") WWI floatplane £5.00
 922. HEINKEL HE51 (22") 1930's Biplane fighter £4.00
 923. HEINKEL HE100D1 (19") Heinkel's answer to the BF109E. £2.50
 924. HEINKEL HE-112-B-0 (19") WWII fighter £5.00
 925. HEINKEL HE119 (31") Single engine light bomber prototype £5.00
 926. HEINKEL HE219 "UHU" (38") Two sheets to this plan of the twin-engine night fighter "Owl" £5.00
 927. HENSCHEL HS 126 B1 (27") Also suitable for C02 high wing monoplane £4.00
 928. JUNKERS JU87 D3/D75 "STUKA" (30"132") Famous dive bomber, 2 versions £4.00
 929. MESSERSCHMITT BF109E (20") The famous fighter £3.00
 930. MESSERSCHMITT BF109F (20") The famous fighter £3.00
 931. MESSERSCHMITT BF109K (20") The famous fighter £3.00
 932. MESSERSCHMITT BF109H1 (20") The famous fighter £3.00
 933. MESSERSCHMITT Me 209 (22") final development of the 109 (prototype) £4.00
 934. MESSERCHMITT BF609 (30") Twin fuselage variant of the 109 last prop project of III Reich £3.50
 935. PFALZ DIIIa (19") WWI fighter £3.00
 936. ROLAND DII (17") WWI fighter £3.00

937. ROLAND D-V1b (18")	WWI fighter	£3.00
Great Britain		
938. ARMSTRONG WHITWORTH FK3 (24")	WWI bomber	£3.00
939. AUSTIN-BALL A.F.B (18")	WWI fighter	£3.00
940. BLACKBURN SKUA (28")	WWII naval fighter	£3.50
941. BRISTOL MIC (19")	Between the wars monoplane racer	£3.00
942. DE HAVILAND HORNET (27")	Twin engine fighter/bomber	£3.50
943. FAIREY BARRACUDA MK II (29")	Carrier borne dive bomber	£3.50
944. FAIREY FIREFLY MK II (28")	WWII heavy fighter	£4.00
945. FAIREY SWORDFISH (28")	WWII naval torpedo bomber	£5.00
946. HAWKER HURRICANE Mk I (24")	WWII fighter	£5.00
947. HAWKER TEMPEST MKV (24")	Pierre Closterman's Aircraft specifically drawn	£4.00
948. MARTINSIDE F4 BUZZARD (20")	WWI fighter	£3.00
949. MARTINSIDE G102 ELEPHANT (22")	WWI fighter	£3.00
950. MILES M-14 MAGISTER (21")	WWII trainer (Gasparian GM63 installation details shown)	£5.00
951. MILES M-38 MESSENGER (22")	WWII observation	£4.00
952. MILES MAGISTER (18")	WWII low wing trainer	£3.00
953. SE 5A (17")	WWI fighter	£4.00
954. SOPWITH PUP (16")	WWI fighter	£3.00
955. SUPERMARINE SPITFIRE MK XIV (22")	WWII fighter	£3.00
956. SUPERMARINE SPITEFUL (21")	WWII fighter "Spitfire" derivative	£3.00
957. TAYLORCRAFT AUSTER (22")	WWII A.O.P.	£3.00
958. WESTLAND WAGTAIL (18")	Inter-war bi-plane (Gasparian GM63 installation detail shown)	£5.00
Holland		
959. FOKKER D XXIII (24")	WWII twin boom fighter prototype	£5.00
Italy		
960. FIAT G.55 CENTAURO (23")	WWII fighter	£4.00
961. FIAT G-56 (23")	WWII fighter (prototype)	£4.00
962. PANTERAVIA P22 OSCAR 100 (20")	A very simple high wing design. Built down to 20gms this model is an excellent all-weather contest model. Models of this design regularly fly over 80 secs.	£3.00
963. REGGIANE RE-2005 SAGITTARIO (21")	WWII fighter	£3.00
964. SVA ANSALDO A-1 BALILLA (16")	WWI fighter	£3.00
965. SAVOIA MARCHETTI SM-79 (42")	WWII three engine bomber	£5.00
Japan		
966. KAWASKI KI K-61 HIEN (TONY) (24")	WWII fighter, a very good flyer	£3.00
967. KAWASKI KI 84 HAYATE (FRANK) (23")	Army WWII fighter	£3.50
968. MANSYU KI-98 (23")	WWII twin boom fighter	£3.00
969. MITSUBISHI J2M2 RAIDEN (JACK) (21")	WWII heavy fighter	£3.00
970. NAKAJIMA C6N1 SAIUN (MYRT) (25")	Dive Bomber	£3.00
971. YOKOSUKA D4Y2 SUISEI (JUDY) (23")	WWII Torpedo bomber	£3.00
Russia		
972. IS-4 (17")	Mono-biplane fighter WWII very unusual but an excellent flyer	£3.00
973. JAK3 (19")	WWII fighter	£3.00
974. LA-5FN/LA-7 (19")	WWII fighter	£3.00
975. LAGG 3 (20")	WWII fighter	£3.00
976. LAVOCHKIN LA.9/LA.11 (20")	WWII & Korean War fighter	£3.00
977. MIG-3 (21")	WWII fighter	£3.00
978. MIG-DIS (30")	Twin engine fighter long range escort fighter	£4.00
979. MIGI-224 (26")	WWII fighter	£5.00
980. POLIKARPOV ITP (20")	WWII fighter	£4.00
981. PE-3 (37")	Twin engine fighter variant of the PE-2	£3.50
982. TOMASEVIC (20")	WWII prototype fighter	£3.50
983. TUPOLEV ANT-63 (SD B) (37")	A very good plan of a twin which is a little trim sensitive but once adjusted will turn in excellent flights.	£4.00

U.S.A.

984. BELL P-39Q AIRACOBRA (21")	WWII fighter	£5.00
985. BELL P-63A KING COBRA (23")	WWII fighter	£3.50
986. BELLANCA SKYROCKET (21")	Low wing passenger	£3.00
987. BELLANCA TRIMOTOR (28")	Tri-motor between wars sport plane	£5.00
988. CHANCE-VOUGHT F40-ID CORSAIR (25")	Carrier borne fighter	£3.50
989. CURTISS P-40WARHAWK (23")	WWII fighter	£3.50
990. GRUMMAN F7F TIGERCAT (31")	Carrier twin engine WWII fighter	£3.50
991. GRUMMAN F4F WILDCAT ((23")	WWII fighter	£5.00
992. LOCKHEAD P-38G/L LIGHTNING (33")	Twin boom fighter	£4.00
993. MCDONNELL XP.67 (34")	'BAT' wing twin	£4.00
994. NORTH AMERICAN P51B MUSTANG (22")	WWII fighter	£3.00
995. NORTH AMERICAN MUSTANG P 51H (23")	WWII fighter - will fly 70 secs in all weathers	£3.50
996. NORTH AMERICAN F82 TWIN MUSTANG (31")	Twin fuselage version of P.51H	£3.50
997. VOUGHT OS2U Kingfisher (22")	WWII float and carrier aircraft, both version shown	£6.00
998. VULTEE XP-54 (33")	WWII twin boom pusher	£6.00

18. BOB JONES' PLANS All plans are £5.00

Over the years many of you will have purchased plans from Bob Jones. In the US some Bob's of plans were sold, for a number of years, through the late Ken Sykora's Old Timer Model supply OMS (The "American list") marked with *. Bob has now passed on his plans service to Free Flight Supplies.

For some of the plans laser cut kits of parts are available from Belair kit cutting phone 01362 668658 web site <http://www.belairdigital.co.uk/index.asp> A full kit for the 1937 DUPLEX (Chet Lanzo) and the 1937 CLASS C (Dick Korda) (38") 1949 BLACKPOOL ROCK MK3 (J. Owen) (32") have now been kitted by Spencer Willis see section 19 KITS. Note that finished propeller units some designs are available see Section 6 RUBBER ACCESSORIES .

Lightweights

- 1001. 1945 MICK FARTHING - two blade freewheeler (30")
- 1002. 1946 HEP CAT (John Barker) (30")
- 1003. 1947 DIZZY LIZZIE - land/float (Reg Parham) Laser kit (32")
- 1004. 1947 THE JINX (J. White) (30")
- 1005. 1948 PINNOCHIO (Laurie Barr) Laser kit (28")
- 1006. 1949 BLACKPOOL ROCK MK3 (J. Owen) Also a Spencer Willis kit (32")
- 1007. 1950 SCRAM (Laurie Barr) Laser kit (28")

Wakefields - No minimum weight

- 1008. 1930 EHRHARDT (32")
- 1009. 1931 FEINBURG (37")
- 1010. 1931 EHRHARDT Laser kit (36")
- 1011. 1932 GORDON LIGHT (37")

Wakefields - 4 Ounce

- 1012. 1935 GORDON LIGHT Laser kit (40")
- 1013. 1935 KUMMER (45")
- 1014. 1936 MOFFETT (Bob Jeffrey) Laser kit (42")
- 1015. 1937 DUPLEX (Chet Lanzo) Laser kit an also a Spencer Willis kit (42")

Wakefields - 8 Ounce

- 1016. 1937 DRUCOT- French (41")
- 1017. 1939 KANSAS (E. Linn) Laser kit (48")
- 1018. 1937 ELIMINATOR WINNER* (Fish) (42")
- 1019. 1938 CLODHOPPER II Laser kit (50")
- 1020. 1939 LOCTON PARK (59")
- 1021. 1939 GYPSY (Earl Stahl) Laser kit (44")

- 1022. 1939 WINNER (Dick Korda) Laser kit and also a Spencer Willis kit (42")
- 1023. 1940 HI-HO* (Ed Lidgard) (40")
- 1024. 1940 CALIFORNIA CHAMP (Engleman & Baker) Laser kit (50")
- 1025. 1942 SHARPSHOOTER Laser kit (44")
- 1026. 1950 GUTTERIDGE TROPHY (Reg Parham) laser kit (42")
- 1027. 1950 GHOST - geared (John Gorham) (47")
- 1028. 1950 FITTLEWORTH FLYER" (Boxall) (44")
- 1029. 1950 JOHN KNIGHT (44")

Nostalgia/Classic 1951 rules

- 1030. 1951 BRITISH TEAM (Ian Dowsett) (45")
- 1031. 1952 JOHN KNIGHT (46")
- 1032. 1952 DRIFTER - geared (Joe Bilgri) (48")
- 1033. 1953 WINNER - geared (Joe Foster) Laser kit (48")

American Sticks (i.e. no U/C)

- 1034. 1935 CLASS C RECORD* (Dick Korda) (30")
- 1035. 1937 MULVIHILL WINNER* (Alvie Dague) (36")
- 1036. 1937 CLASS C (Dick Korda) Also a Spencer Willis kit (38")
- 1037. 1940 LANZO STICK (Chet Lanzo) Laser kit (55")
- 1038. 1940 CHAMPIONSHIP STICK* (Al Casano) Laser kit (38")
- 1039. 1941 STICKLER (Dick Korda) (42")
- 1040. 1941 SMITH Mulvihill (Johnson) (35")
- 1041. 1941 MULVIHILL WINNER* (Homer Heller) (42")
- 1042. 1941 CONTEST WINNER* (Reid Hull) (40")
- 1043. 1941 RECORD STICK* (Ed Swenton) (39")
- 1044. 1942 SLICK STICK (Johnson) (50")

American Duration

- 1045. 1936 THE RANGER (Gordon S. Light) (37")
- 1046. 1936 MOFFETT WINNER (Vernon Gray) (39")
- 1047. 1936 STOUT WINNER - cabin (Ervin Leshner) (49")
- 1048. 1938 STOUT WINNER (Arthur Beckington) (38")
- 1049. 1939 MOFFETT WINNER (Ed Naudzius) (40")
- 1050. 1939 DOUBLE FEATURE Moffett (George Reich) (36")
- 1051. 1939 STOUT WINNER (Bob Toft) (41")
- 1052. 1940 THE CRUSADER - cabin (Bob Romeister) (38")
- 1053. 1940 MOFFETT WINNER (Bob Reich) (41")
- 1054. 1940 THE VETERAN Moffett winner (Ken Carter) (40")
- 1055. 1940 STOUT WINNER - cabin (Caldwell Johnson) (40")
- 1056. 1940 MOFFETT WINNER (Ray Nelder) (46")
- 1057. 1941 CLASS E RECORD HOLDER (Chet Lanzo) (64")

Small Duration/Sport

- 1058. 1937 KANGA KITTEN (Col. Bowden) (30")
- 1059. 1939 DEWFLY Cabin (32")
- 1060. 1939 BABY DURATION TRAINER* (Felix Gilbert) (30")
- 1061. 1940 CONQUEROR cabin/stick (Dick Korda) (30")
- 1062. 1942 HUMP II (Noakes) (24")
- 1063. 1942 WATTIE - Flight cup (R. Watson) Laser kit (34")
- 1064. 1942 WREN duration (H McDougall) (34")

Duration/Sport

- 1065. 1937 EAGLET - low wing racer (Knight) (28")
- 1066. 1940 HURRICANE - low wing (Earl Stahl) (33")
- 1067. 1940 CABINAIRE (Brown) (18")
- 1068. 1941 MERCURY – Cloudcraft semi-scale (24")
- 1069. 1945 CYGNET - biplane (Gordon Rae) (28")
- 1070. 1947 JUPITER – FROG low wing (36")

Scale

1071. 1930 FAIRCHILD RANGER – Megows (30’')

1072. 1941 GRUMMAN SKYROCKET - twin (Struhl) (42’')

Scale - Jumbo

1073. 1935 DEWOTINE D-33’ - low wing (modified by Keith Horry) (50’)

1074. 1936 REARWIND SPEEDSTER - burd (modified by Doug McHard) (60’)

Gliders

1075. 1940 THERMIC 50X (Frank Zaic) (50’)

1076. 1940 ELITE AIRBORNE (42’)

1077. 1942 BRISTOL BEAJUGLIDER NO 2 (40’)

1078. 1942 BRISTOL BEAUGLIDER NO3 (50’)

1079. 1945 LIGHTWEIGHT (Stephen Lacy) (36’)

CO2

1080. 1938 POWERHOUSE - Quarter size (21’)

Power

1081. 1949 SLICKER 50X 2-3.5cc (Bill Dean) (54’)

19. KITS

BMFA EDUCATION PROGRAMME KITS

DART - BMFA version of the classic ‘‘Dart’’ simple rubber powered aircraft - Span 12’’ (30 cm) £3.00.

Special bulk packs for schools are available details upon request

GYMINNIE CRICKET - rubber powered model - Span 15’’ (38 cm) £3.50

FROG - Span 20’’ (51 cm) - model fitted with undercarriage from which it will take off £5.50.

Spare propeller units- fits all BMFA models red 5.5’’ or black 6’’ £0.60 either propeller.

FLY IN (INDOOR SPORT RUBBER MODEL KITS FROM AUSTRALIA)

ZEPHYR - From a plan by Randy and Irene Wrisley and modified by Laurie Kelsall. A canard design complete with rubber tissue and hardware £5.95.

IGOR VIVCHAR

PRIMA F1B - The kit is complete with all the parts that are needed (covering and glue excluded) to build this excellent introduction model for F1B class. Prima is a simplified version of the model the Igor flies with great effect. Send an S.A.E. for a scale three view. Complete kit materials/instructions £165.00

Full size plan only £5.00

ATALAR MODEL

A P30 kit from Turkey named ‘‘Fantastic’’ is a simple yet high performing model. The kit is complete with laser cut parts, tissue and rubber motors. £45.00

SPENCER WILLIS

These kits are ‘‘hand made’’ with care by Spencer. All kits include all materials, including selected balsa, laser cut sheet parts, Esaki tissue. These kits are for the experienced builder. Value for money. As stocks are replaced there will increases in price as a result of balsa wood shortages.

SWEET ‘‘P20’’ P20 rubber model. Laser cut balsa and ply parts, tubular balsa fuselage ready to finish, 2 rubber motors. £25.00.

SWEET ‘‘P30’’ P30 rubber model. Laser cut balsa and ply parts, tubular balsa fuselage ready to finish, 2 rubber motors. £37.50.

LANZO DUPLEX (Chet Lanzo) A full kit of the 1937 4 oz Wakefield £49.00.

YANKEE VI (Charles Wood) A full kit of the 1951 Wakefield (vintage legal) £48.00

1937 CLASS C (Dick Korda) (38’’) full kit £36.00.

KORDA 1939 winning model £49.00

MINI-MANX A simple to build 40’’ span rubber powered tailless model £36.00

BUCKRIDGE LIGHTWEIGHT DURATION full kit £38.00

BLACKPOOL ROCK 32’’ (J. Owen) published in the Blackpool Club magazine in December 1949 span mini vintage full kit £30.00

MAYZEE A P30/Small open tailless model. Materials for 2 fuselages, 1 wing, P30 prop plus prop block for carving.	£30.00
KK SENATOR complete kit of mini vintage model	£34.00
AIGLET A1 kit of the 1956 Aeromodeller plan by Martin Bridge	£42.00
MERCURY a vintage rubber model that predates the SENATOR	£41.00

Note that plans only are available see section 17 plans, finished props and nose units are available see section 6 rubber accessories. If you opt for a finished prop or complete unit, I will remove the basic materials from the kit and allow a £1.00 reduction in price.

DON DELOCH

SUPER PEARL 202E E36 contest proven design from Don. This is a short kit complete with plan and state of the art power train suggestions. Check out <http://www.modelaviation.com/superpearl> for a review Plan only see section 17, Boom see section 3 £35 + £15.00 for boom

SUPER PEARL 202EF E36 EF (extra fast) Geodetic wing to handle faster speeds. Plan only see section 17, £35 + £15.00 for boom

SUPER PEARLE 222E E36 and enlarged version of the 202E Plan only see section 17, £35 + £15.00 for boom

POLECAT MKX U.S. NATS winner in '89, '90, '91, '05 and U.S. senior record holder. Slow but relentless climb with 4-5 strands of 1/8" rubber. Short kit. Plan only see section 17 £15.00

LASER KITS

A new innovation that is changing the face of aeromodelling is the introduction of the laser cut kit. Free Flight Supplies has teamed up with Belair Kit Cutting. The plans list indicates those which are kitted and available from Belair, contact Belair <http://www.belairdigital.co.uk/index.asp> or 01632 668658

CUSTOM KITS

I am regularly asked what items do I need from the list to make a particular type of wing, fuselage or complete model? Please let me know your needs and I will see what I can suggest. We can discuss these needs and I can produce a customised package of parts.

20. A. A. (AL) LIDBERG PLANS AND KITS (USA)

Beautifully drawn plans all with explicit construction manuals. Full range of Al's free flight products stocked. Kits and the semi kits are beautifully prepared and presented. Excellent value for money. All are good flying models. Al plans and kits plus post. Note that all plans are sent folded. Al has passed away, when existing stock is sold there will be no more.

PLANS

ANSWER	24" CO ₂ Old Timer	£5.00
BATHTUB	22 1/4" CO ₂ SCALE	£5.00
BLOHM-VOSS BV-141	28 1/4" Rubber Scale (Laser kits available see below)	£8.00
CESSNA AIRMASTER SM	20" Rubber Scale	£5.00
CESSNA AIRMASTER LG	40" Rubber Scale	£7.00
GLEN BEETS SPECIAL	25" CO ₂ Rubber	£7.00
FRISCO KID	22 CO ₂ Nostalgia	£5.00
IAR 80A	34 1/2" Rubber Scale	£10.00
ME-163B KOMET	13" CO ₂ (A23) Profile Scale	£2.00
MORANE-SAULNIER A1	22" Rub., CO ₂ Elec. Scale	£6.00
NAPIER-HESTON	32" Rubber Scale	£7.00
NO TOUCH HOMBRE	34"/30" .02 PW/Payload	£5.00
PACEMAKER	20" CO ₂ Old Timer	£5.00
PIGEON-FRAER PURSUIT	23 7/8" CO ₂ Scale	£6.00
POWERHOUSE	21 3/4" CO ₂ Old Timer	£5.00
RWD-8	24" Rubber Scale	£6.00

SPERRY MESSENGER	18" Rubber Scale	£5.00
TEXAS TEMPLE MONOPLANE	37 1/2" Rubber Scale	£10.00
TURBO-PORTER	40" Rubber Scale	£8.00
VULCAN AMERICAN MOTH	29 1/2" CO ₂ Rubber Scale	£7.00
WAHOO	30".020 Rep. Old Timer	£5.00
MY SIN (By S. S. Hachenburg)	A-B-C 70" Nostalgia gas full size	£9.00
MY SIN (By S. S. Hachenburg)	Scaled to 1/2A 39"	£7.00
MY SIN (By S. S. Hachenburg)	Scaled to Pee Wee .020 24"	£5.00
FLEEBO	1995 nostalgia 1/2A 39"	£7.00

NOCALS PLANS profile scale rubber models. Simple to build. Good flyers.
(incl. 1 set of instructions & ideas per order for any quantity) 1 - 4 plans £1.50 each
Set of laser cut ribs £4.50

BALLERINA	POLIKARPOV MOSCA	F2G CORSIA
R2 BUMBLEE BEE	MITSUBISHI CLAUDE	ZLIN

PARTS

Egg Spinners (2)	Plastic, 2 pc. 1 3/4" dia. use with TA152	£2.50
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KITS, SEMI KITS & PARTIAL KITS

The mini sets are 19"-23" span replicas of pre-WWII gas models, for CO₂, small electric or rubber power

Semi kit include plans, instructions and print-wood for curved/sheet parts, £20.00
M2 = PLAYBOY SENIOR, RECORD BREAKER & TRENTON TERROR.

Full kit include plans and instructions, balsa & ply print-wood, strip wood, block balsa, wire, wheels, Esaki tissue. £30.00

MB = MISS TINY, SIMPLEX & SPEARHEAD JNR.

MC = CHAMPION, DELSKY & CHQ SPORTSTER

Mini-XL full kits free fight old-timers are 30" wingspan replicas for electric & CO₂ power that include plans and instructions, balsa & ply print-wood, strip-wood, block balsa, wire, wheels, Esaki tissue.
Cleveland VIKING, Louis Garami's STRATO-STREAK £25.00, CAVU. £30.00

21. "HOW TO DO IT" PUBLICATIONS

Write-ups on the process and procedures for handling some of Free Flight Supplies' products. Some of these write-ups are referred to in the appropriate section of this list. All publications plus post. Updates ()

No.1	Mylar Covering	5 pages on how to cover with Mylar. (03/07/04)	£1.50
No.2	Tomy Timers	10 pages of articles on conversion of snoopy timers from the Aeromodeller, plus post 2 pages by Bob Jones.	£3.00
No.3	High Tech Modelling	22 pages of thoughts and ideas on use of materials, copies of various papers.	£4.00
No.4	Mylar/Tissue Covering	5 pages on the application of tissue to Mylar. (08/10/07)	£1.50
No.5	Further Thoughts on Covering	8 pages on more advanced techniques using modern covering materials. (08/10/07)	£1.50
No.6	Indoor Foam Scale Flying Models	16 page booklet produced by the late David Deadman, Peter Smart and Richard Crossley -How to build and fly them.	£4.00
No.7	Finishing of HL Gliders	2 pages by Curt Stevens (USA) on how to produce a super light finish on chuckie wings.	£1.00
No.8	Hi-Tech Modelling	23 Pages of cross over technology as published in QFI.	£4.00
No.9	Hi-Tech Wings	21 page presentation to the 1997 BEFA Symposium	£4.00
No.10	Covering with Tissue and Silk	13 pages on how to cover with tissue and silk. (08/10/07)	£2.00
No.11	Hi-Tech Rubber Model Propellers	6 pages on how to make propellers from carbon fibre	

No.12 Radio tracking of free flight models	8 pages on how to track free flight models and install tracking systems. (08/10/07)	£2.50
No 13 Colour for free flight models	10 pages in particular how to colour Mylar. (10/06/06)	£2.00
No 14 The choice of covering materials	9 pages on the selection of covering materials. (08/10/07)	£2.00
No 15 Rubber model propellers from ½" balsa sheet	6 pages on how to carve a rubber model propeller. Details on the fittings included. (08/10/07) This is a companion paper to Harry Wilkinson's open rubber model	
	See Section 18 plans "Border Reiver"	£2.00
No 16 Ribless carbon "D" boxes	A 15-page extended version of the two-part article from AMI March April 2004	£3.00

RUBBER MODEL PROPELLERS

A new A4 size booklet (66 pages 65 line drawings, many full size) on how to make rubber model propellers. A comprehensive booklet that details the process from the layout of the blades through to production and all the necessary fittings £12.00 plus post.

Even after reading the above book are you are still struggling to produce your own rubber model props custom made propellers can be made to order enquire regarding details/prices. Send SAE for details of units currently available.

The above publications will help you get the best from Free Flight Supply products. These write-ups are designed to pass on experience and the expertise gained by myself and others in order that you can achieve the best possible results. These publications are added to and improved as the techniques are developed and refined. Updates include ideas from you the readers, remember it helps everyone if the expertise is shared.

DATA CHARTS

To build seriously you need to be able to check out data simply and quickly. No longer will you have to look for that mislaid scrap of "dog eared" paper that contains the information. FFS have produced laminated cards with all the details that you need. The doubled-sided A4 cards £2.00 each plus post.

CHART No. 1 Contains data on balsa wood sizes/weights and recommended use. Suitable scales in section 14.

CHART No. 2 Contains data on wire sizes, machine screws sizes - cross referenced to drill and tap sizes.

CHART No. 3 Contains details on the servicing and maintenance of clockwork timers.

CLUB TALKS

As well as building and flying models, selling materials and writing about how to use them, I am also available to talk to clubs about free flight modelling and hi-tech materials etc. Give me a call to discuss possibilities my fees are (very) reasonable! Basically, the cost is my travelling expenses.

22. BOOKS

Jim Norfolk

THUNDER AND LIGHTNING.

A book of instructions and full-size plans to enable scratch building of stick and tissue replicas of 6 aircraft with thunder or lightning in their name £13.00.

WEIRD AIRPLANES

A book that contains drawings and details of 6 weird airplanes, both real and imaginary – F-5-F Skyrocket, F-4-D Skyray, XP 55 Ascender, Batplane, Single Seater and X Plane £13.00

MIGS and a Loaf of Bread

Jim's latest book containing notes and drawings on 6 MIG aircraft MIG3, MIG9, MIG21, MIG29, IL-2, IL-2 to IL-10 conversions. £14.50.

Jim's books are all now out of print. I have a small stock on hand of all publications which cannot be replaced.

Don Ross

RUBBER POWERED MODEL AIRPLANES ISBN 978-0-938716-19-8

168 pages covering every aspect of rubber powered models from the simplest beginner's stick to complex contest models. £12.95

FLYING MODELS ISBN 978-0-938716-54-9

240 pages that extends no.1 into the coverage of CO₂, electric and micro radio control £15.95

23. SURPLUS TO REQUIREMENTS