



Ray Malmström

Model Aircraft Bibliography





**The list was originally produced by
Dennis Sharman
and updated by
John Valiant**

Abbreviations for 'Type':



- CG Chuck Glider
- CL Control Line
- E Electric
- E(RTP) Electric (Round the pole)
- F/P Free Plan
- G Glider
- J Jetex
- MCG Mini-Chuck Glider
- P Power
- R Rubber
- R(RTP) Rubber (Round the pole)
- * Plan available from John Valiant.

Cover: Picture taken by Terry King in 1949.
(A control line model called Mandy powered by a Mills .75 [18UM])



Ray Malmström

60 years of IVCMAC

£11.50
Including
postage and
package

FEATURES:

96 A4 pages. 40 plans. 11 never published before. Some full size.
36 colour and over 100 black & white pictures.
Hints and tips on building and flying Ray's designs.

• Freelflight rubber/power • Control line • Jetex • CO₂ • Plans inside

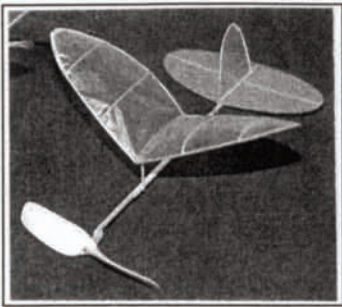
Plan index

Aeronca 300 Ely (Unpublished)	18	Leo Valentin (Aeromodeller, December 1965)	93
Arrowair (Model Maker, June 1980)	76-77	Martian (Model Aircraft, February 1954)	22-23
Ascenda (Meccano Magazine, June 1965)	90-92	Mimi (Aeromodeller, September 1953)	19-21
Avenger (Aeromodeller, June 1943)	16-17	Mini Master (Model Aircraft, November 1964)	43
Avro F (Meccano Magazine, July 1965)	48-49	Miss Starstruck Fliar Phil Bendix Racer (Unpublished)	60
Avro 504 K (Model Engineer, December 1967, fold out plan)	57-59	Ole Tiger (Aeromodeller, January 1970)	68-71
Bambina (Unpublished)	56	Pee Wee (Aeromodeller, November 1940)	14-15
Bambinetta (Model Aircraft, December 1955)	25-27	Primary Glider (Unpublished)	64
Brewster Buffalo (Model Aircraft, May 1961)	33	Push-Up (Model Aircraft, December 1956)	28-29
Canard-Air (Unpublished)	72	SAAB A37 Viggen (Meccano Magazine, May 1967)	53-55
Cosmic Wind (Model Aircraft, March 1964)	38	SAAB J29 (Aeromodeller, October 1954)	24
Cosmos (Model Aircraft, March 1963)	39	Space-Ace (Unpublished)	88-89
Dualair (Aeromodelling - ARCO Publications 1961)	30-31	Supermarine Spitfire VB (Meccano Magazine, December 1968)	65-67
Eastbourne Aircraft Co. 1913 Monoplane (Aeromodeller, February 1966)	50-51	Stardust (Meccano Magazine, April 1965)	44-46
Fliar Phil's Flier (Unpublished)	78-79	Starduster (Meccano Magazine, month unknown 1966)	52
Hanriot (Aeromodeller, May 1986)	81	Starfli (Unpublished)	86-87
Herald (Model Aircraft, February 1964)	36-37	Sweetheap (Aeromodeller, September 1968)	61-63
Invicta (Unpublished)	34-35	Tail Up (American Aircraft Modeller, May 1971)	73-75
Invicta Mk II (Unpublished)	40-41	Viking (Unpublished)	82-83
Jetstream (Model Aircraft, May 1965)	47	Wren (Unpublished)	84-85

Aero Modeller

		<i>Date</i>	<i>Pages</i>	<i>Type</i>
1A* _{50p}	Pee Wee	Nov 1940	638; 659	R 7 ³ / ₄ "
2A * _{f1}	Horus	Jul 1942	298-299	R Biplane 19"
3A * _{f2}	Tom Tit	May 1943	866-867	R 13"
4A * _{f1}	Avenger	Jun 1943	916-917	R Twin 13"
5A * _{f1}	Kestrel	Aug 1944	462-463	R Twin 17"
6A * _{f1}	Merlin	Feb 1945	137-139	R Twin 20 ² / ₅ "
7A * _{f1}	Athene	Oct 1946	685-689	R Twin 19"
8A * _{f2}	Mimi	Sep 1953	540-545	P .46 16"
9A * _{f1}	SAAB J29	Oct 1954	532-533	J Atom 35 8 ³ / ₄ "
10A * _{f1}	Mercurian Mite	Jul 1955	373-375	CL .5 7"
11A * _{f1}	Leo Valentin	Dec 1955	653; 656-657	J35-50 12"
12A* _{50p}	Stiletto	Jul 1956	379	CL .5 12"
13A * _{f1}	Featherfly	Dec 1956	661	R 9 ¹ / ₄ "
14A* _{50p}	Saucy Satellite	Dec 1957	664	CL .75 8 ³ / ₄ "
15A * _{f1}	Eastbourne Aircraft Co. 1913 Monoplane	Feb 1966	104-105	R 15 ¹ / ₄ "
16A * _{f2}	Goldwinga	Mar 1966	155 (F/P)	R 20"
17A * _{f2}	Horizon	Aug 1966	453 (F/P)	P .010 26 ¹ / ₄ "
18A * _{f1}	Taube	Mar 1967	133	MCG 7"
19A * _{f1}	Hellstar	May 1967	252-255	R 18"
20A * _{f2}	Hush-buggy	Sep 1967	476-480	CL .049 20"
21A * _{f1}	Sweetheap	Sep 1968	475-481	CL .8-1 22"
22A * _{f1}	Curtiss SBC-3	Feb 1969	76-79	R Biplane 13 ¹ / ₄ "
23A * _{f1}	Long John	May 1969	243-245	R 15 ³ / ₄ "
24A * _{f2}	Ole Tiger	Jan 1970	30-34	CL .8-1 15"
25A * _{f1}	Candice	Apr 1972	211 (F/P)	R 18 ¹ / ₄ "
26A * _{f2}	Bi-Star	Dec 1973	702 (F/P)	R Biplane 18"
27A * _{f2}	Fli-Wing	Sep 1974	486 (F/P)	R 17 ¹ / ₂ "
28A * _{f1}	Canair	Jul 1977	411-413	R 16"
29A* _{50p}	Columbia Space Shuttle	Sep 1981	462-463	CG 11"
30A * _{f1}	VeeBipe	Jan 1983	23-25	R 16 ¹ / ₂ "
31A* _{50p}	Hanriot	May 1986	281	R 10 ¹ / ₂ "
32A * _{f2}	Metro-Air	Dec 1986	706; 717 (F/P)	R 15 ¹ / ₂ "
33A * _{f2}	Skycar	Oct 1987	575 (F/P)	R 16 ³ / ₄ "
34A * _{f2}	Starstream	Dec 1987	685-686 (F/P)	P .010-.049 30 ¹ / ₂ "
35A * _{f1}	Starfli	Apr 1996	38 (F/P)	R 8 ³ / ₄ "
36A * _{f1}	Tiny Bee	Feb 1997	46-47	R 5 ³ / ₄ "
37A * _{f1}	Wee Gee Bee	Sep 1997	8; 10	R 9"
38A * _{f1}	Starlet	May-Jun 1998	21(F/P)	R 13 ⁷ / ₈ "
39A * _{f1}	Cri-Cri	Dec-Jan 1999	23-25	R Twin 13 ¹ / ₄ "
40A* _{50p}	Flying Santa (Modified from Leo Valentin 1955	Dec-Jan 1999	(F/P)	J50 12"

Aero Modeller (1A-20A)



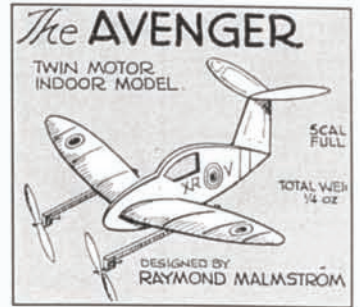
1A



2A



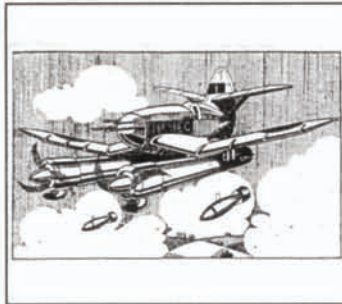
3A



4A



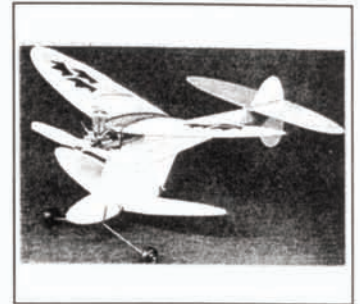
5A



6A



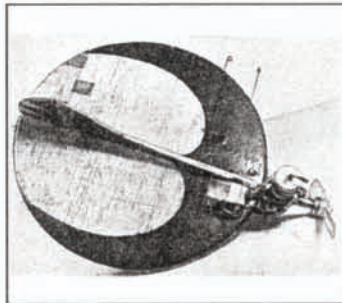
7A



8A



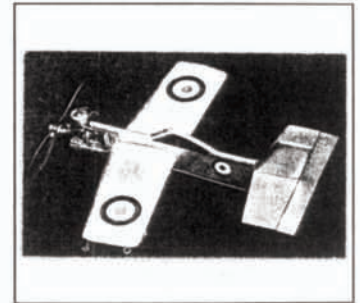
9A



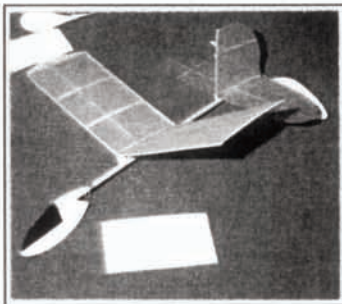
10A



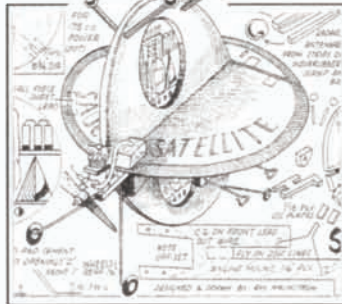
11A



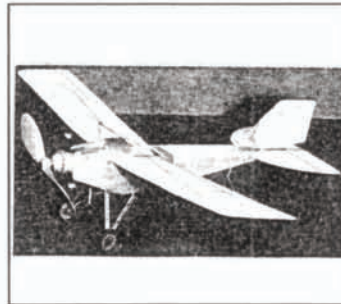
12A



13A



14A



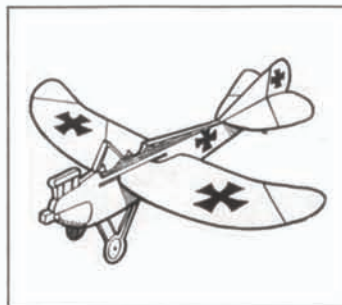
15A



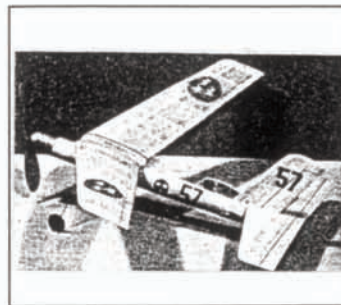
16A



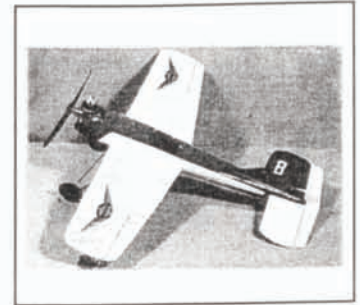
17A



18A

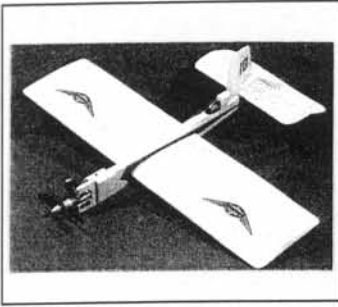


19A

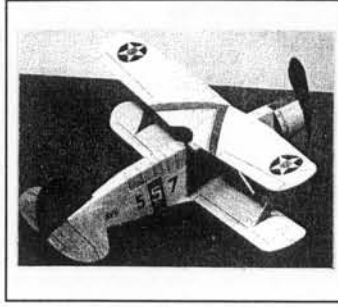


20A

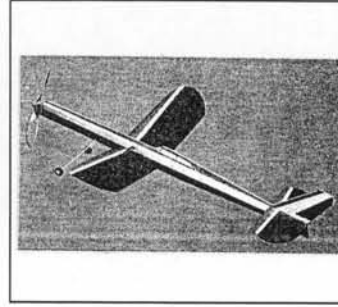
Aero Modeller (21A-40A)



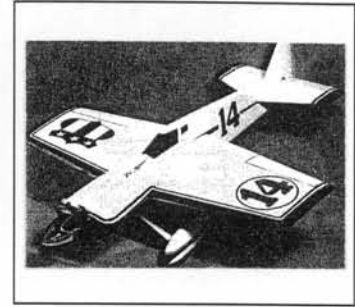
21A



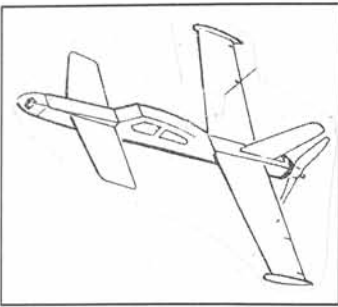
22A



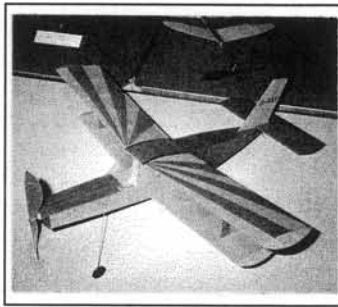
23A



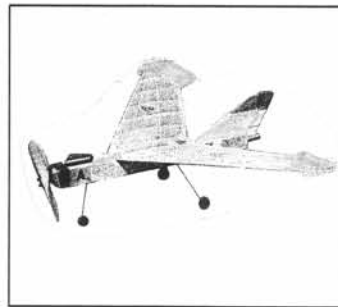
24A



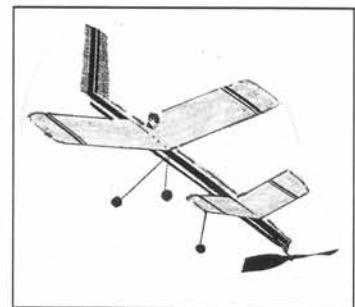
25A



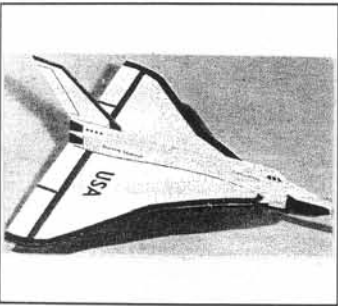
26A



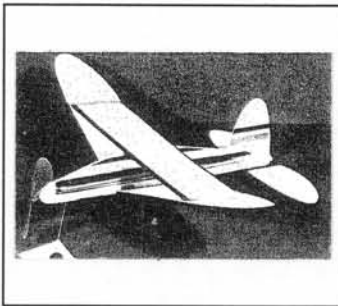
27A



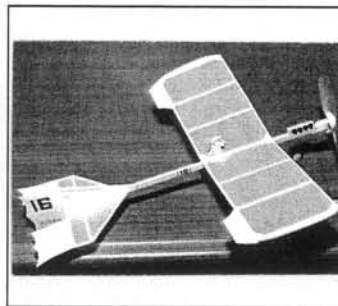
28A



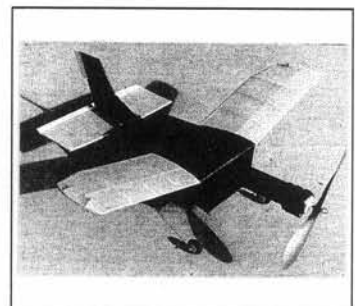
29A



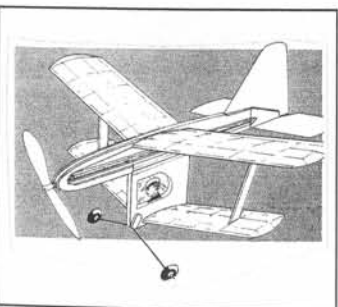
30A



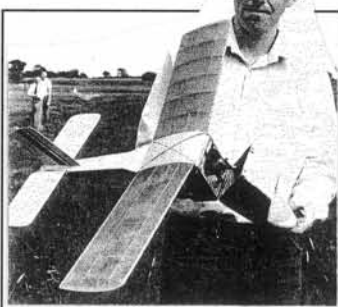
31A



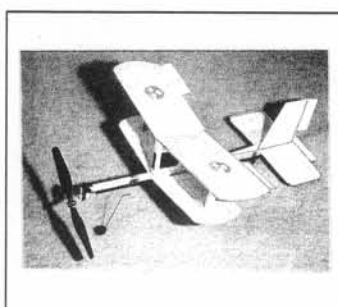
32A



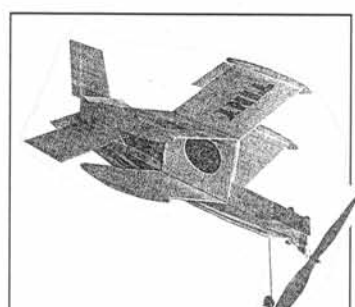
33A



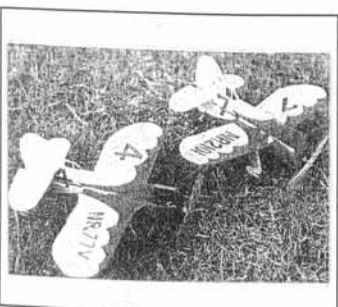
34A



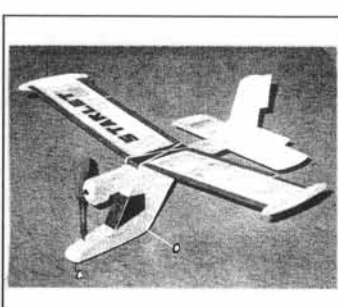
35A



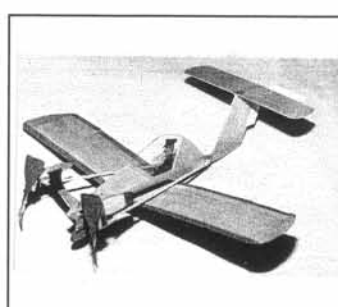
36A



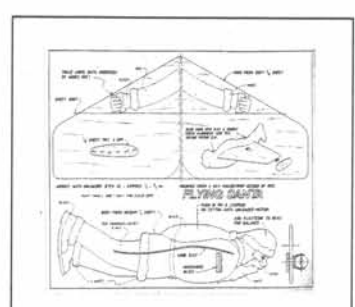
37A



38A



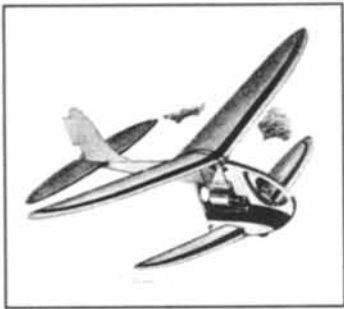
39A



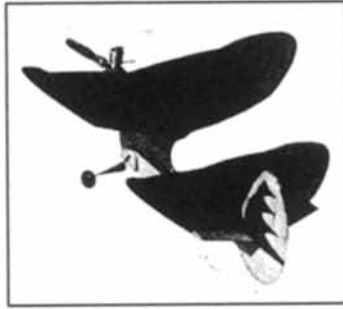
40A

Model Aircraft					
		<i>Date</i>	<i>Pages</i>	<i>Type</i>	
1MA	* _{£2}	Mooncrest	Dec 1950	466-467	J50 18"
2MA	* _{£2}	Martian	Feb 1954	46-47	P .46 17"
3MA	* _{£1}	Auster A.O.P. 9 (Profile)	Sep 1955	357-359	R 22"
4MA	* _{£1}	Bambinetta	Dec 1955	481-483	P Bambi 21"
5MA	* _{£1}	Miles Messenger	Aug 1956	289-290	CL .5 19"
6MA	* _{£1}	Push-Up	Dec 1956	435-437	P .46 24"
7MA	* _{£1}	Breezibipe	May 1957	166-167	CL .5 8"
8MA	* _{£1}	Space Ray	Dec 1957	395-397	CL .75 10"
9MA	* _{£1}	Skyfarer	Apr 1958	122-125	CL Twin .5 20"
10MA	* _{£1}	Skyviking	Aug 1958	266-269	CL/J50 .8 Twin 14 ³ / ₄ "
11MA	* _{£2}	Hollandair "Libel"	May 1959	148-151	R 25"
12MA	* _{50p}	Hawker Tempest	Jun 1960	179	MCG 10"
13MA	* _{50p}	Cessna 210	Aug 1960	245	R 10 ³ / ₄ "
14MA	* _{50p}	D.H. Mosquito	Nov 1960	338	G 11"
15MA	* _{50p}	Brewster Buffalo	May 1961	155	CL .46 14 ³ / ₄ "
16MA	* _{£2}	Piper Pawnee	Jun 1961	188	R 24 ¹ / ₄ "
17MA	* _{50p}	D.H. Trident	Oct 1961	329	MCG 10"
18MA	* _{£1}	Avro Vulcan B2	Feb 1962	47	J50 11"
19MA	* _{50p}	Bristol Monoplane 1917	Mar 1962	89	MCG 5 ¹ / ₄ "
20MA	* _{£1}	"Quickie" Canard Glider	Apr 1962	119	G 13"
21MA	* _{50p}	Fokker DVIII 1918	May 1962	152	MCG 5 ¹ / ₄ "
22MA	* _{£2}	Bolkow Junior	Jul 1962	211-216 (F/P)	R 21"
23MA	* _{50p}	Morane-Saulnier Parasol Monoplane 1916	Sep 1962	287	MCG 6"
24MA	* _{£1}	Flying Flea	Oct 1962	324-325	R 12"
25MA	* _{50p}	Sopwith F.1. Camel 1917	Dec 1962	374	MCG 5"
26MA	* _{£1}	Astra	Feb 1963	42-43	R Biplane 14"
27MA	* _{£1}	Cosmos	Mar 1963	91	R 14"
28MA	* _{50p}	Fokker Eindecker Scout 1915	May 1963	138	MCG 6 ¹ / ₂ "
29MA	* _{£1}	Potez-Heinkel CM-191	Oct 1963	304-305	CG 15"
30MA	* _{£1}	PZL-104 Wilga	Dec 1963	362-363	CL .020 15"
31MA	* _{£2}	Herald	Feb 1964	41-48 (F/P)	R Twin 25"
32MA	* _{50p}	Nieuport 17C.1 Scout 1915	Feb 1964	56	MCG 5 ¹ / ₄ "
33MA	* _{£1}	Cosmic Wind	Mar 1964	82-83	R 14"
34MA	* _{£1}	Miss Flighty	May 1964	148-149	R 16"
35MA	* _{50p}	S.E.5A 1918	Jul 1964	201	MCG 5"
36MA	* _{£1}	Mini Master	Nov 1964	318-319	R 16"
37MA	* _{£1}	Glidair	Dec 1964	352-353	G 12"
38MA	* _{£1}	Jetstream	May 1965	138-139	J50 19"

Model Aircraft (1MA-20MA)



1MA



2MA



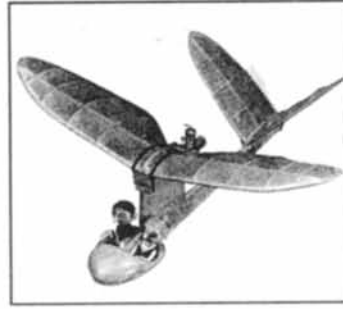
3MA



4MA



5MA



6MA



7MA



8MA



9MA



10MA



11MA



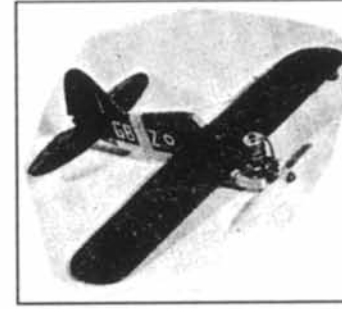
12MA



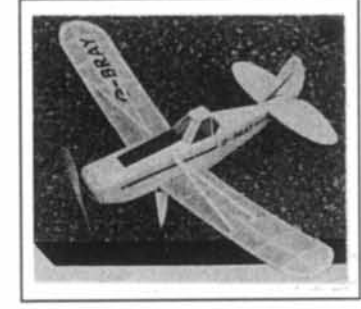
13MA



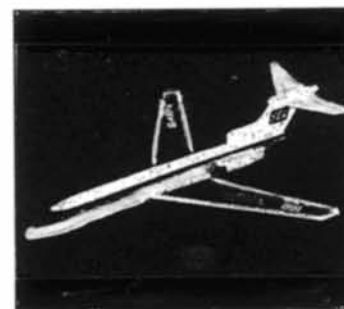
14MA



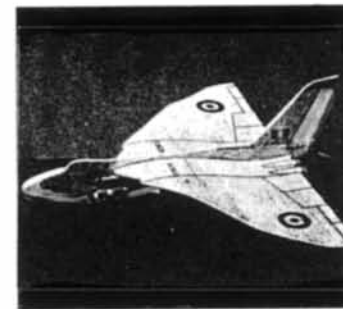
15MA



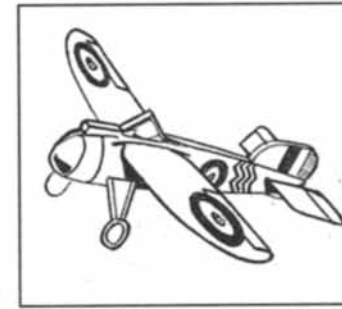
16MA



17MA



18MA

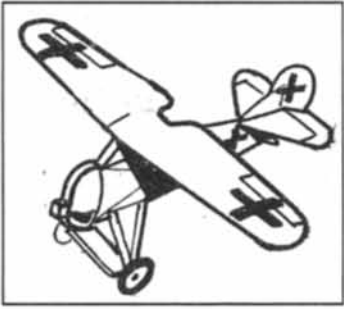


19MA

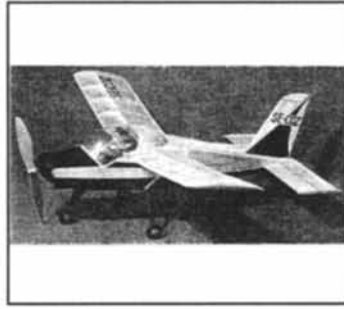


20MA

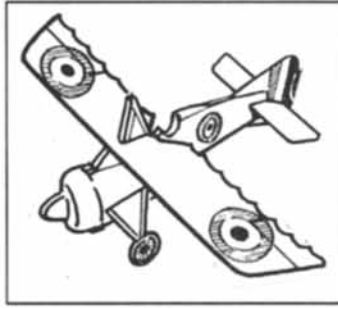
Model Aircraft (21MA-38MA)



21MA



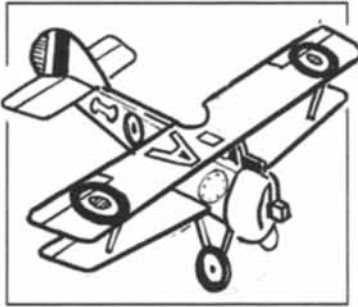
22MA



23MA



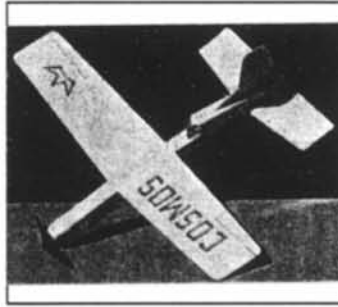
24MA



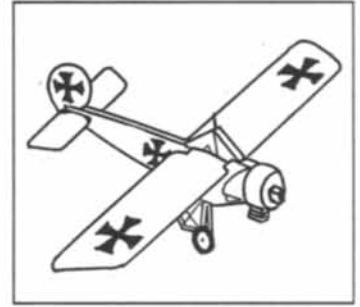
25MA



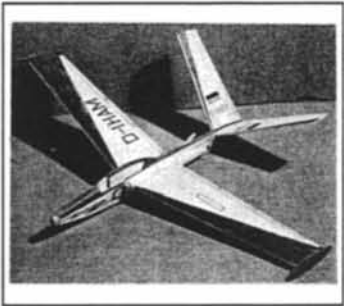
26MA



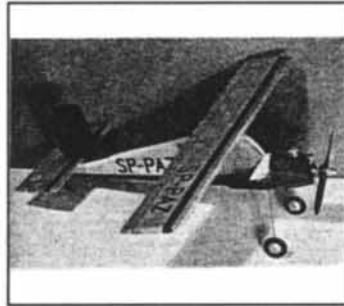
27MA



28MA



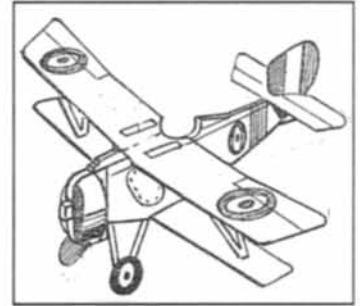
29MA



30MA



31MA



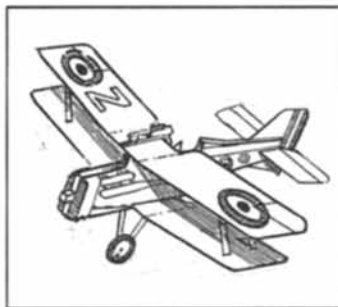
32MA



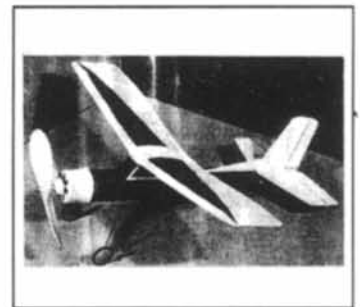
33MA



34MA



35MA



36MA



37MA



38MA

Meccano Magazine				
	<i>Date</i>	<i>Pages</i>	<i>Type</i>	
1MM * _{f2}	Marquita	Oct 1964	27-29	R 16 ¹ / ₄ "
2MM * _{f1}	Instanta	Nov 1964	18-20	CL .020 14"
3MM * _{f1}	Winghi	Dec 1964	23-25	R(RTP) 12"
4MM * _{f1}	Winglo	Dec 1964	23-25	R(RTP) 12"
5MM * _{f1}	Hoverfly (Hovercraft)	Jan 1965	10-12	Electric length 8"
6MM * _{f1}	Concord	Mar 1965	12-15	CG 7"
7MM * _{f1}	Stardust	Apr 1965	12-14	R 16"
8MM * _{f1}	Finch	May 1965	26-29	R Biplane 15"
9MM * _{f1}	Ascenda	Jun 1965	28-30	R Helicopter
10MM * _{f1}	Avro F	Jul 1965	16-18	R 15"
11MM * _{f1}	Triad	Aug 1965	14-16	CL .8-1.5 13 ¹ / ₄ "
12MM * _{f1}	Skyfly	Sep 1965	16-17	R 15"
13MM * _{f1}	Flamenco	Oct 1965	30-32	P .010 30"
14MM * _{f2}	Avro 558	Jan 1966	23-26	R Biplane 15 ¹ / ₄ "
15MM * _{f2}	Magnum (part 1)	Jun 1966	25-30	R 16 ¹ / ₂ "
	(part 2)	Jul 1966	28-30	
16MM * _{f1}	Jetrida	Sep 1966	26-28	J50 18"
17MM * _{f2}	SAAB A37 Viggen	May 1967	27-30	R 12 ⁵ / ₈ "
18MM * _{50p}	SAAB A37 Viggen	Feb 1969	77	MCG 5"
19MM * _{f2}	Loupilou	Jan 1968	18,19,42,43	CL .049 16"
20MM * _{f2}	Pushair	Mar 1968	141-143	R 15 ¹ / ₂ "
21MM * _{f1}	Supermarine Spitfire VB	Dec 1968	649-651	R 14"
22MM * _{f1}	Sleekstar	Apr 1969	189-191	R 17"
23MM * _{f2}	Hovostar (Hovercraft)	Dec 1971	597-601	P .010 length 12"
24MM * _{f2}	SAAB J29F	Jul 1972	337-341	Electric(RTP)
25MM * _{f2}	Starduster	? 1966	27-29	R 19 ³ / ₄ "
26MM * _{f1}	Firecrest (Car)	? 1964	14-17	J50(RTP) length 11"
27MM * _{f2}	Brigadyr	May 1968	261-263	R 14"
28MM * _{50p}	Jet Commander	May 1968	271	MCG 6"

Meccano Magazine (1MM-13MM)



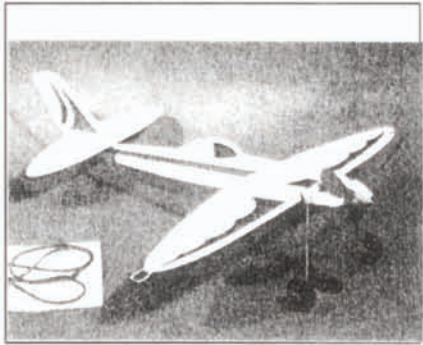
1MM



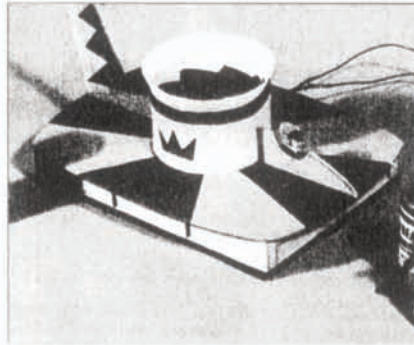
2MM



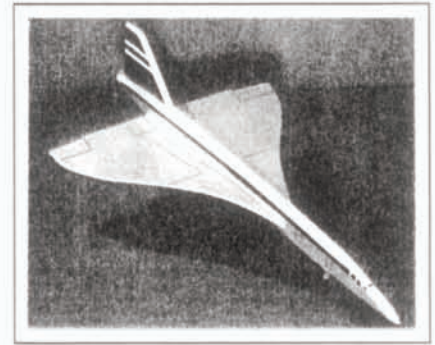
3MM



4MM



5MM



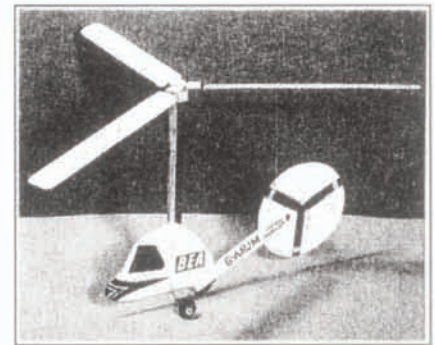
6MM



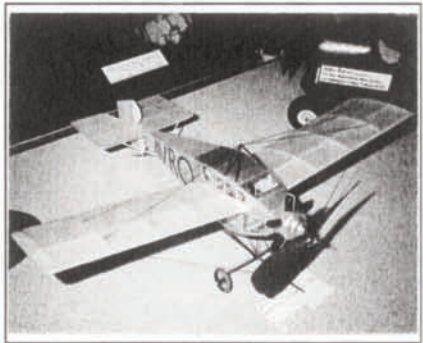
7MM



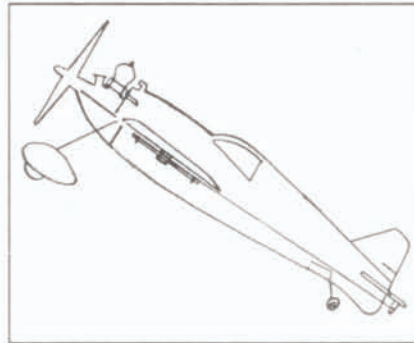
8MM



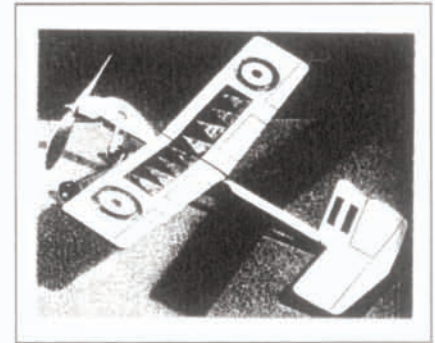
9MM



10MM



11MM

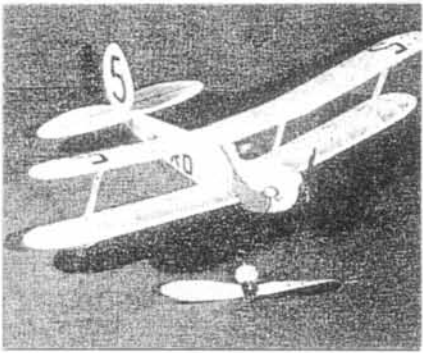


12MM

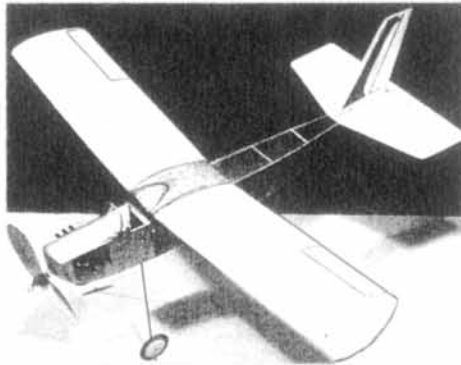


13MM

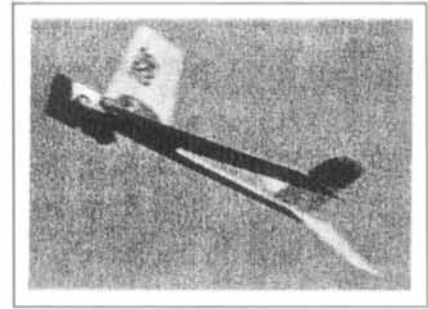
Meccano Magazine (14MM-26MM)



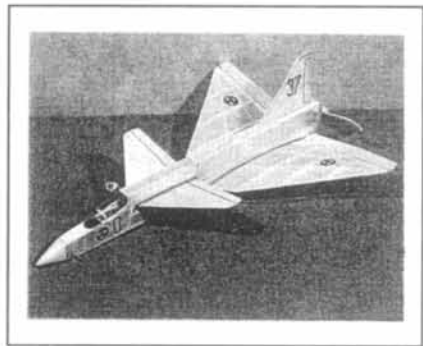
14MM



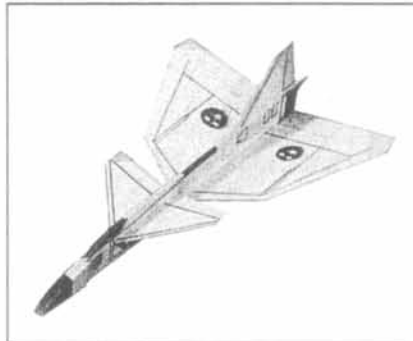
15MM



16MM



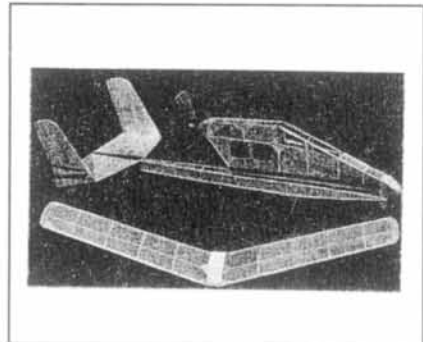
17MM



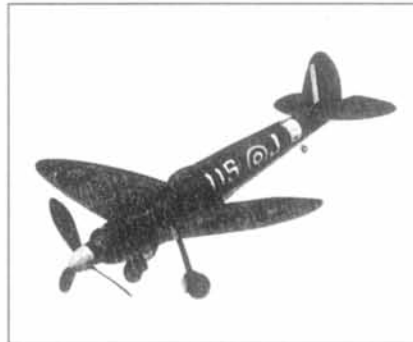
18MM



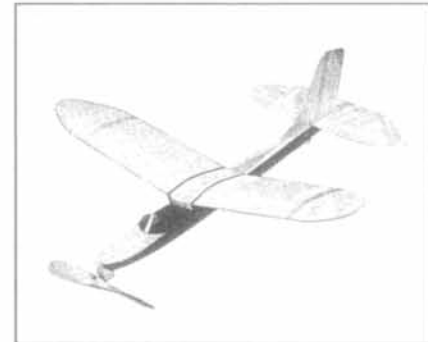
19MM



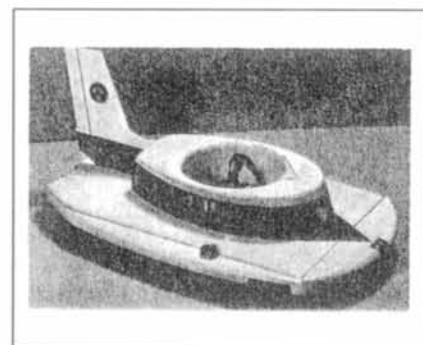
20MM



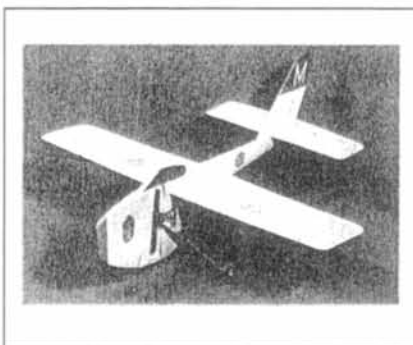
21MM



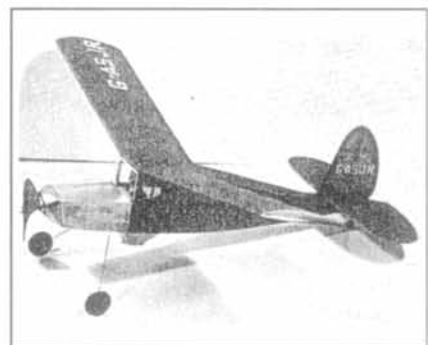
22MM



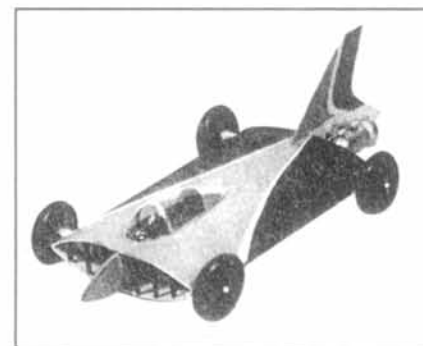
23MM



24MM



25MM



26MM



27MM
- 9 -



28MM

Model Maker

1MOM *_{£2} Arrowair Jun 1980 148-151 CO₂ 14"

Model Engineer

(Published within an Exhibition Souvenir Handbook and Guide)

1ME *_{£2} Avro 504 K Dec 1967 (Fold out plan.) R 18"

South American kit version of Piper Pawnee (16MA)

Produced by *Aerodelos, Britannia, Apartado Aereo, 21030, Bogota 2.*

1SA *_{£2} Piper Pawnee R 24¹/₄"

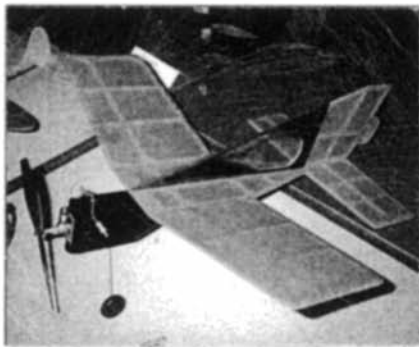
Aeromodelling by R. Malmström

(Published by ARCO Publications 1961 and 1967. ARCO-Mayfair 1969)

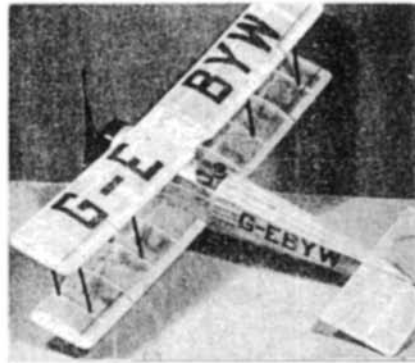
1AR*_{£1} Dualair 120-125 G or R 20"

2AR*_{£1} Trainair 128-133 CL .46 13"

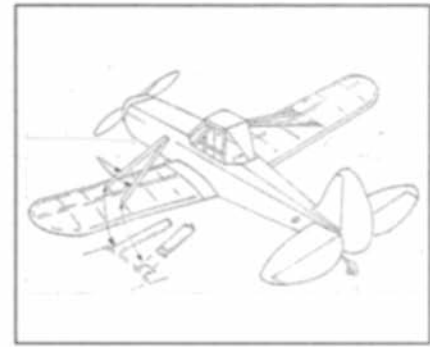
3AR Middy (Line drawing) Photo of Ray with model appears in *Model Aircraft, December 1955, p. 487.*
 Also line drawing sent to Mike Parker from Ray in October 1995. 151 P (Ed Baby)



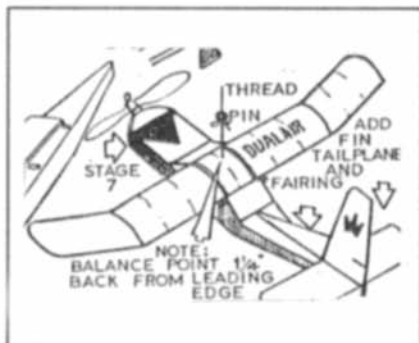
1MOM



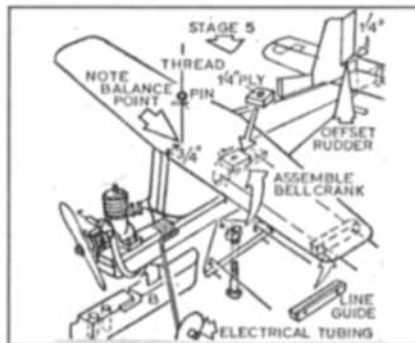
1ME



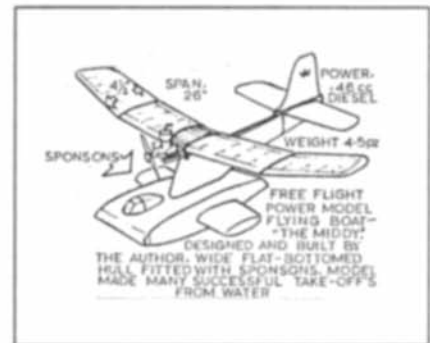
1SA



1AR



2AR



3AR

Lakeland Model Aircraft

		Date	Pages	Type
1LMA	* _{£1} Hotspur 2	1939?		Paper Glider 13"

Aeromodelling

(Published by Air Education and Recreation Organisation,
Carwarden House, 118 Upper Chobham Road, Camberley, Surrey)

1AERO	* _{50p} DC 10			Paper Glider 12"
2AERO	* _{50p} Aeroflo			G 19"
3AERO	* _{50p} Aeroliner			R 18"
4AERO	* _{£1} Aerocoupe			R 17"

Junior Express

1JE	* _{50p} Hawker Hunter	Jan 22 1955		CG 6½"
2JE	* _{50p} Flying Saucer	Jan 29 1955		CG 7½"
3JE	* _{£1} Jet-Prop Racing Car	Feb 19 1955		R (Car) length 12"

American Aircraft Modeller

1AAM	* _{£2} Skyrida	Oct 1969	13-15; 52	P .020 31"
2AAM	* _{£2} Saucerer	Jan 1970	12-15, 62	CL .049 11"
3AAM	* _{£2} Islander	Oct 1970	17-19; 62	CG 19"
4AAM	* _{£1} Tail Up	May 1971	44-45,48,56-57	R 20"
5AAM	* _{£1} Long Tom	Jun 1972	52-53, 56, 69	R 20"

Model Airplane News

1MAN	* _{£1} Conrad Connrod (with Bill Dean)	Mar 1954	13-15; 51	J50 13¼"
------	---	----------	-----------	----------

Flying Models

1FM	* _{£1} Martian Saucer	Feb 1955	14, 15, 28	J50 9"
-----	--------------------------------	----------	------------	--------

Control-Line Models

(Published by Nexus Special Interests, 1995)

[3 plans already published in previous issues.]

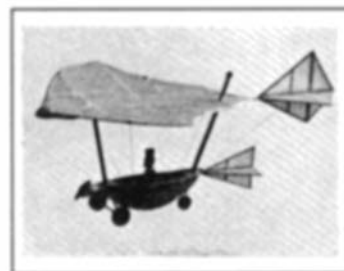
Skyfarer (<i>Model Aircraft</i>) (9MA)	Apr 1958	6-9	CL
Miles Messenger (<i>Model Aircraft</i>) (5MA)	Aug 1956	17-19	CL
Mercurian Mite (<i>Aero Modeller</i>) (10A)	July 1955	20-22	CL

Peanut Power! by Bill Hannan

A World of Tiny Flying Scale Models

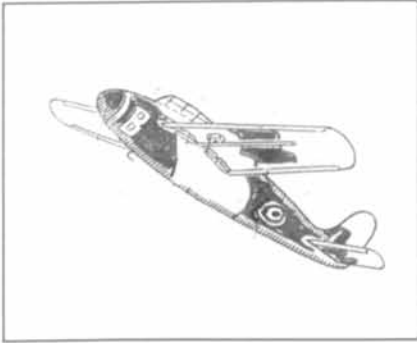
(Published by Historical Aviation Album, P.O. Box 33, Temple City, Calif. 91780)

1PP	* _{£2} Sir George Cayley man-carrying glider. 1853.	1980	5	G 17"
-----	---	------	---	-------



1PP

Lakeland Model Aircraft

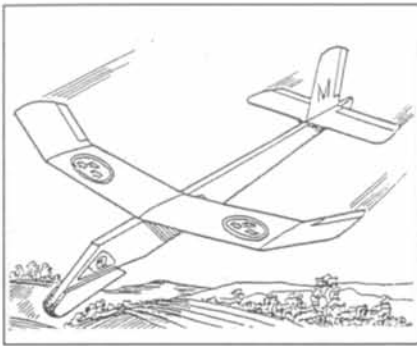


ILMA

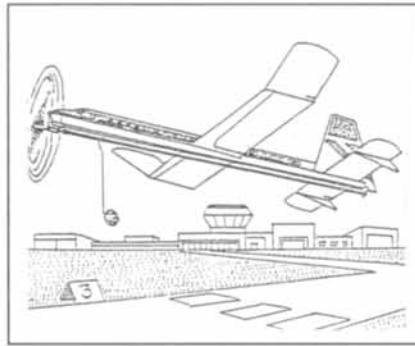
Aeromodelling



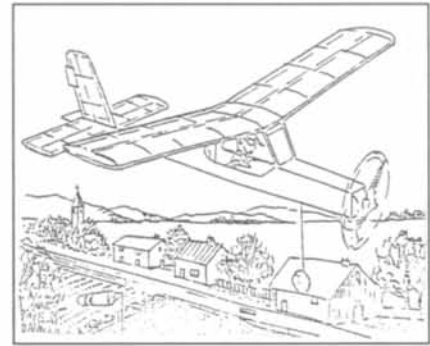
1AERO



2AERO

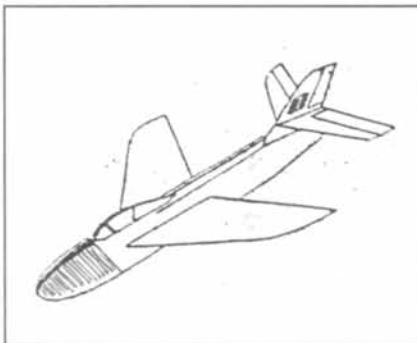


3AERO

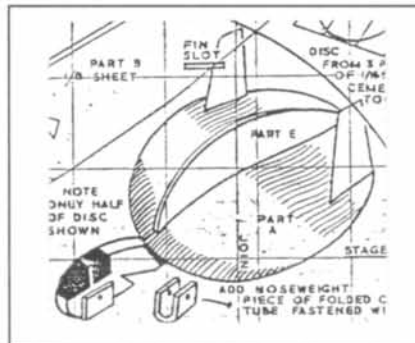


4AERO

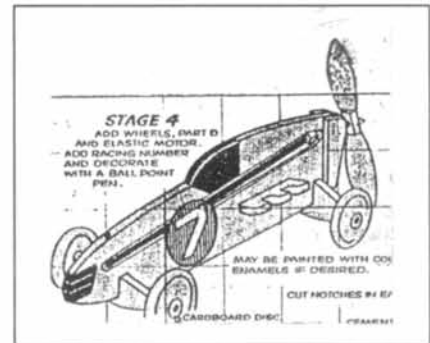
Junior Express



1JE



2JE

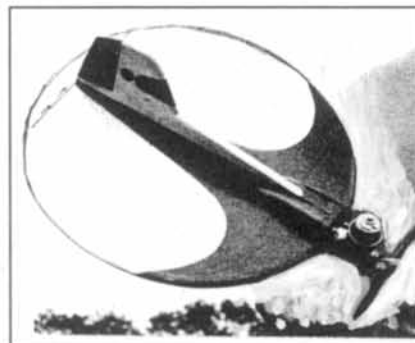


3JE

American Aircraft Modeller



1AAM

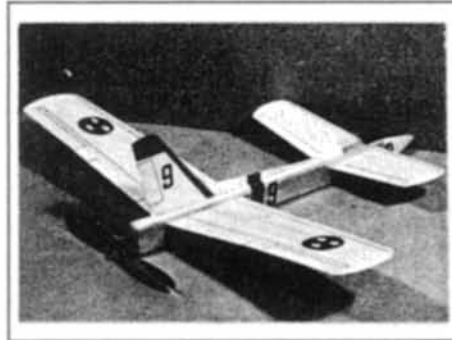


2AAM

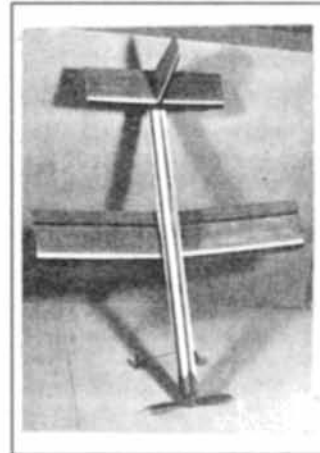


3AAM

American Aircraft Modeller – continued

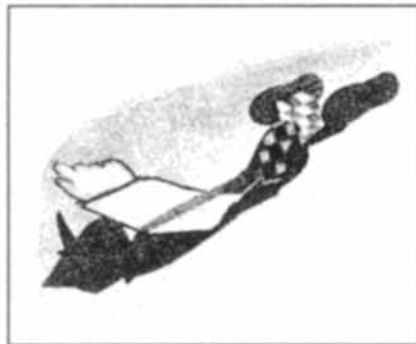


4AAM



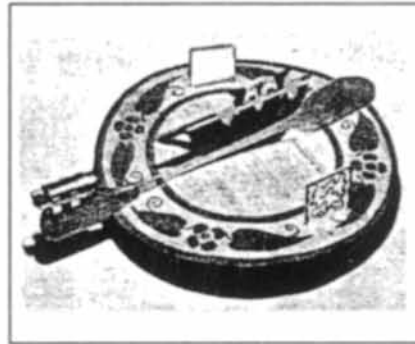
5AAM

Model Airplane News



IMAN

Flying Models



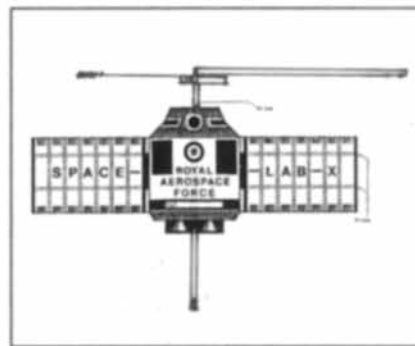
IFM

Spacecopter & Spacelab Indoor and Outdoor Flyers [Wynnstrom Flying Models]
Kit produced by Ray and John Wynn. No plan but supplied with glue and instructions.
Kit still available from John Wynn.

Spacecopter



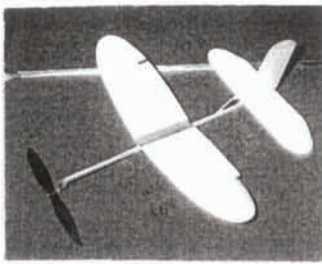
Space-Lab-X



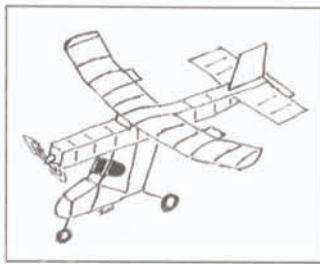
Unpublished Models

		<i>Date</i>	<i>Type</i>
1UM	Name unknown	Pusher. Rolled balsa fuselage made around boom stick. Pod on front of fuselage. Swept back high wing. Line drawing by John Wynn.	R
2UM	* _{50p} Arrowair	?	R 9 ¹ / ₂ "
3UM	* _{50p} Bambina	1989 (Redrawn by Dennis Sharman)	R 15"
4UM	* _{50p} Bambina Mk I	1996	R 4"
5UM	* _{50p} Bambina Mk II	1996	R 5 ¹ / ₂ "
6UM	* _{50p} Canard-Air	1986 (Reproduced in small size <i>Model Flyer</i> Nov 2001 p. 7)	R 10 ¹ / ₂ "
7UM	Coaxair	1976 (Picture only) Also Line drawing. Source: Ray's sketch book June 1975.	R(coaxial props)
8UM	* _{£2} Cri Cri outdoor	1992 Picture in <i>Aero Modeller</i> , June 1992, p. 17. Plan has some details missing.	R Twin 17"
9UM	Cunningham Comet	Dec 1955 p. 652 <i>Aero Modeller</i> (Picture only) Two pics supplied by Dan Bateman taken at the All Herts Rally at Radlett 1955. In the pictures from left to right Harry Hundlby, extreme right John Foster second from right John Lamble.	G
10UM	Demon	June 1946 (Picture only)	R (rtp) twin
11UM	Fan-Tail 22" pusher	July 1957 (Picture only)	CL
12UM	Fliar Phil	1949 (Picture only)	CL (ED.046)
13UM	* _{£1} Fliar Phil	(IVCMAC News Letter) Oct 1982	CG 4 ¹ / ₂ "
14UM	* _{£2} Flier Phil's Flier	1990. Drawn by John McIntyre.	R 18 ³ / ₄ "
15UM	* _{£1} Invicta (No. 1)	? 1963. Built up fuselage, wings and tailplane	R 12"
16UM	* _{£2} Invicta (No. 2)	Jan 1963	R 21 ¹ / ₂ "
17UM	Mamba Mk I	? (Picture only)	R (f/f&rtp) twin
18UM	Mandy	1949 (Picture only)	CL (Mills .75)
19UM	Avro 562 Avis	1975 (Picture Ray sent to <i>Model Builder</i> Postal Contest. Ray won the "Oldest Qualifying Contestant" prize. (He was only 60 at the time Bill Hannan recalls.) Peanut scale.	R
20UM	Meanderer	Appeared in 'Airways' column of <i>Model Airplane News</i> , December 1948, p.29. (Picture only)	R twin
21UM	Mentor Mk I	Jul/Aug 1947 (Picture only) C/L	
22UM	* _{£1} Mountie Mk II	1986. Intended to be produced as a kit to follow on from the <i>Spacecopter</i> and <i>Spacelab</i> . Some wing detail missing	P (ED .046)
23UM	* _{50p} Aeronca 300 Ely	Profile semi-scale all balsa sheet model of an Aeronca modified to an Ely. Plan drawn from original model by Chris Hinson (April 2002) which now belongs to Peter Malmstrom.	R 12 ⁷ / ₈ "
24UM	* _{£1} Primary Glider	1988 (Aeromodelling Course for Children aged 8-10, Impington Village College)	CG 12"
25UM	* _{£1} Ren-Models Cup Impair	1976	R 27"
26UM	* _{£1} Space-Ace	?	R 10 ¹ / ₂ "
27UM	* _{£2} Sunstar	1985 Biplane (Redrawn by Dennis Sharman)	CO ₂ 18"
28UM	* _{£1} The Flying John O'Donnell.	Drawn by Chris Hinson (Oct 2001) from a model presented to John by Ray in 1955, in recognition of his being a member of the British Wakefield Team. Based on Conrad Connrod (1MAN).	J50 13 ¹ / ₄ "

Unpublished Models – *continued*



ARROWAIR
2UM



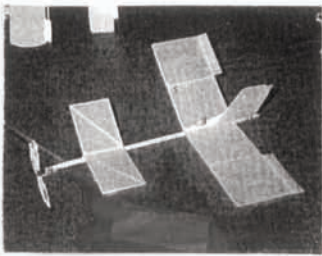
BAMBINA
3UM



BAMBINA Mk I
4UM



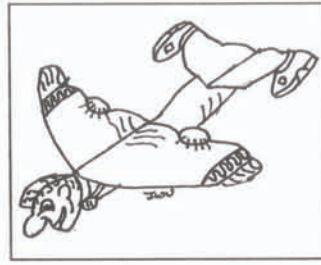
BAMBINA Mk II
5UM



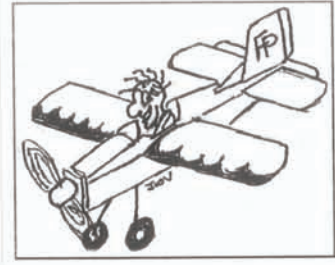
CANARD-AIR
6UM



CRI CRI
8UM



FLIAR PHIL
13UM



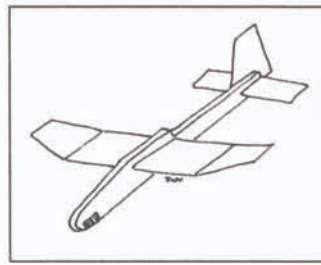
FLIER PHIL'S FLIER
14UM



INVICTA (No. 2)
16UM



MOUNTIE Mk II
22UM



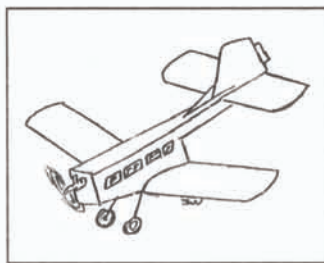
PRIMARY GLIDER
24UM



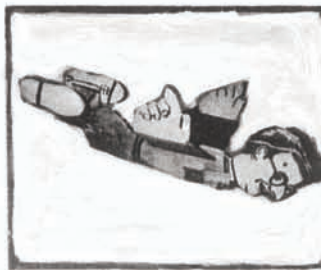
REN-MODELS CUP IMPAIR
25UM



SPACE-ACE
26UM



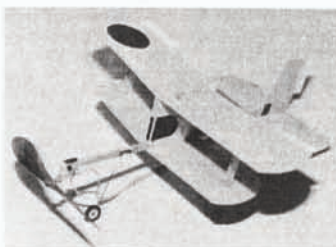
SUNSTAR
27UM



**THE FLYING
JOHN O'DONNELL**
28UM



THE FLYING PRESIDENT
29UM



THE STARFLI
30UM



VIKING
31UM



WEE GEE BEE
(First draft)
33UM



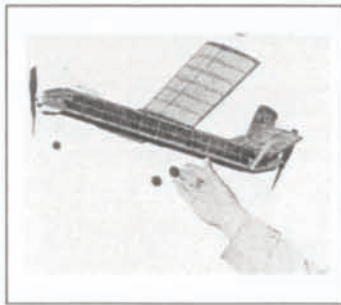
WREN
35UM

29UM	* _{f1}	The Flying President	Redrawn by Chris Hinson. Based on Conrad Connrod (1MAN). Oct 2001.	J50 13 ¹ / ₄ "
30UM	* _{f1}	The Starfli	1995. Redrawn for April 1996 <i>Aero Modeller</i> p. 38 (F/P).	R Biplane 9"
31UM	* _{f1}	Viking	?	R 15 ¹ / ₄ "
32UM	* _{f1}	Evans Volksplane V.P. 1	Published in the Cambridge Evening New, 8 Jan. 1994. p. 7. Photo No. 344865. Plan redrawn by John Wynn who owns the original model given to him by Ray.	R 13"
33UM	* _{50p}	Wee Gee Bee (First draft)	1997 before publication in <i>Aero Modeller</i> .	R 9"
34UM		Westland Wyvern	? (20" Semi-scale profile) C/L (Frog 150)	
35UM	* _{f1}	Wren	1994	R Biplane 12 ¹ / ₂ "
36UM		Clearstream	(Picture only) Published in the C.E.N., 18 March 1974, p.3. Ray recalls it was tricky to trim, "Too near the edge" to publish.	P TD.010
37UM		Name unknown	Small light low wing. Beautifully carved pilot. Built for a Kemp 0.2.	P
38UM		Name unknown	Mills 0.75 ducted prop.	P
39UM		Altaira	(Picture only) Large open box fuselage similar to Metro-Air (31A). Picture also appears in <i>AMI/Aero Modeller</i> April 2002, p. 55.	R
40UM		Name unknown	1974. (Picture only) Large high wing. Mono wheel undercarriage. Under fins on tailplane. Picture also appears in <i>AMI/Aero Modeller</i> April 2002, p. 55.	R
41UM	* _{50p}	Name unknown	2002. April. Plan drawn from original model belonging to Peter Malmstrom by Michael Marshall.	R
42UM		Name unknown	Witch on broom stick. (Profile.)	P
43UM		Marquita	(Picture only) Taken by an all-time great aero modeller Bill Dean at an All Herts Rally on Radlett airfield in the 50's. Picture also appears in <i>AMI/Aero Modeller</i> April 2002, p. 55. It was unearthed from the <i>Aero Modeller</i> files by Ron Moulton.	P ED Bee/ Mills 0.75
44UM		Name unknown	(Picture only) Published in the C.E.N., 8 Jan. 1994, p.7. Similar to Hanriot (30A).	R
45UM		Altair__	(Picture only) Published in the C.E.N., 3 Aug. 1978, p.14. Photo No. 2152788.	P
46UM		Name unknown	(Picture only) Published in the C.E.N., 23 May 1986, p.9. Very small bi-plane Also visable in picture from C.E.N., 8 Jan. 1994, p.7. Photo No. 344865.	P
47UM		Stipa-Caproni	?	Electric(RTP)
48UM		Sunrider	(Line drawing) Source: Ray's sketch book. 20" long, 26" span 2 x 5" dia. props. Power 2 loops ³ / ₁₆ ", 17-18 long pre-wound.	R Twin 26"

Unpublished Models – *continued*



1UM
No plan available



7UM
No plan available



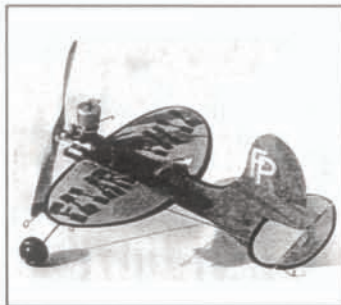
9UM
No plan available



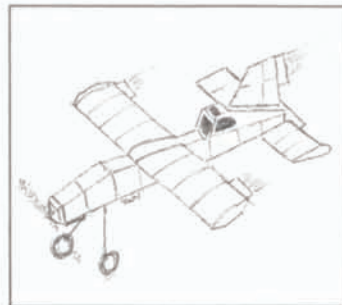
10UM
No plan available



11UM
No plan available



12UM
No plan available



15UM



17UM
No plan available



18UM
No plan available



19UM
No plan available



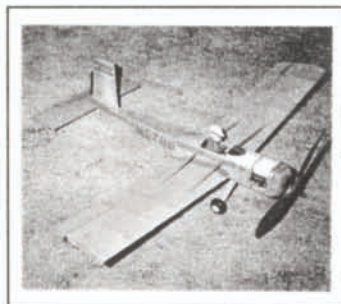
20UM
No plan available



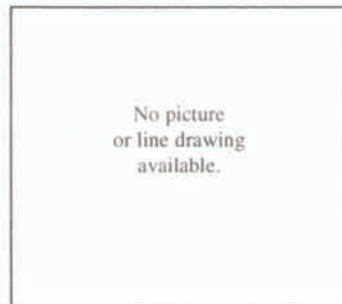
21UM
No plan available



23UM



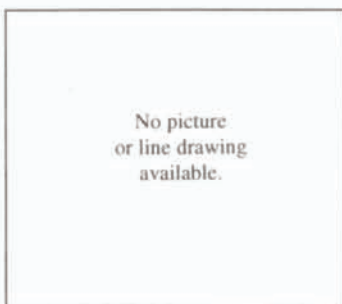
32UM



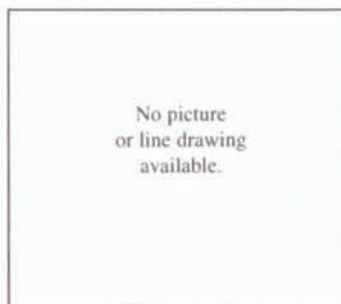
34UM
No plan available



36UM
No plan available



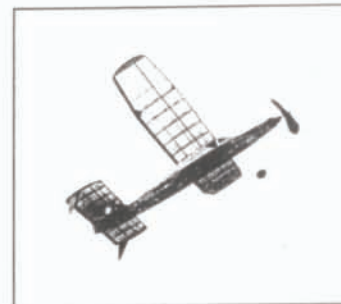
37UM
No plan available



38UM
No plan available



39UM
No plan available

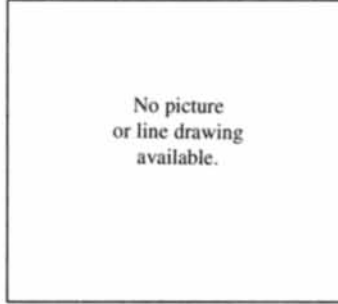


40UM
No plan available

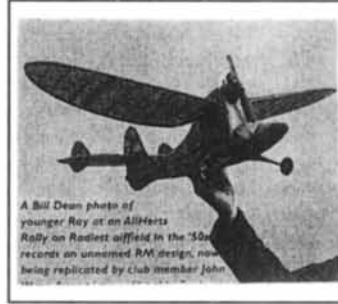
Unpublished Models – continued



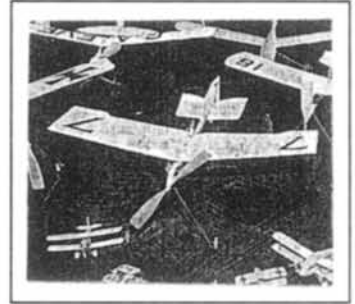
41UM



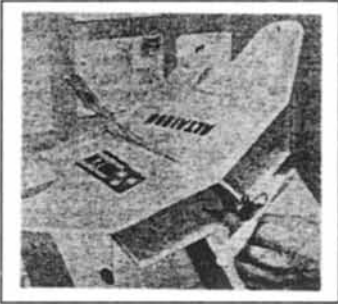
42UM
No plan available



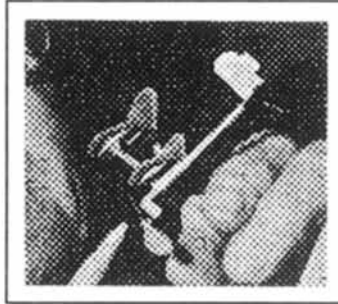
43UM
No plan available



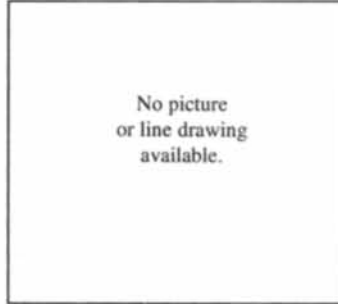
44UM
No plan available



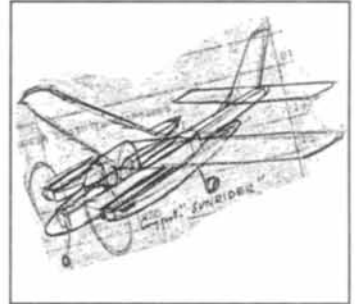
45UM
No plan available



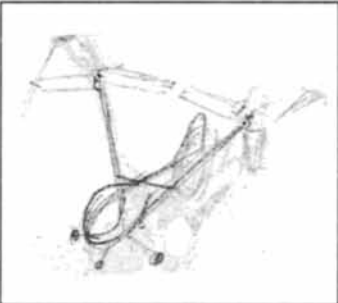
46UM
No plan available



47UM
No plan available



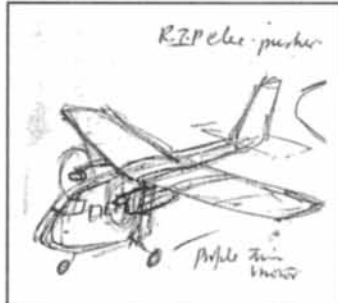
48UM
No plan available



49UM
No plan available



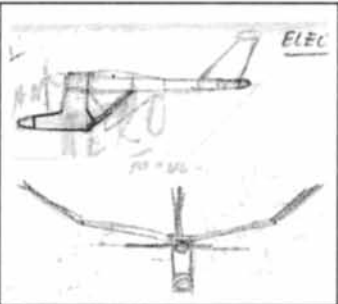
50UM
No plan available



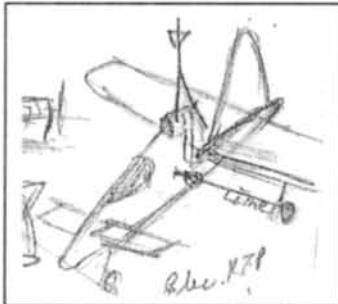
51UM
No plan available



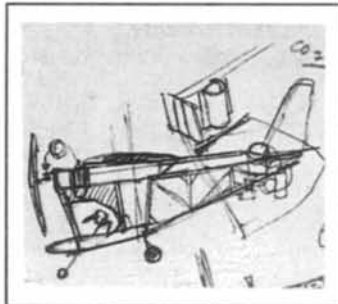
52UM
No plan available



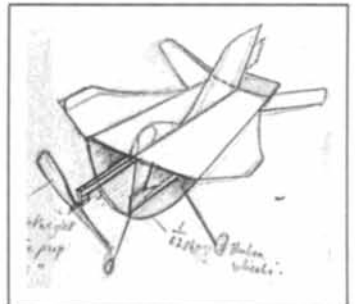
53UM
No plan available



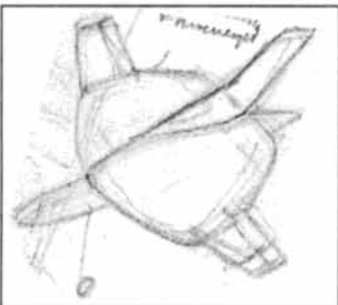
54UM
No plan available



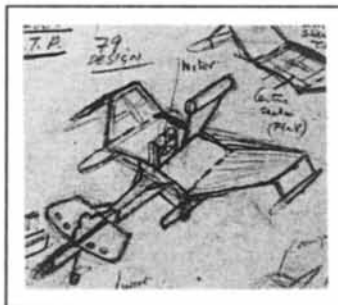
55UM
No plan available



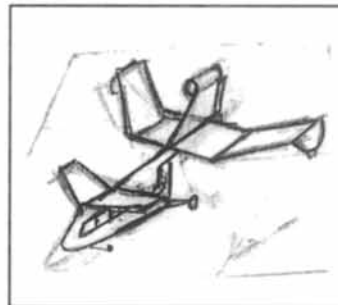
56UM
No plan available



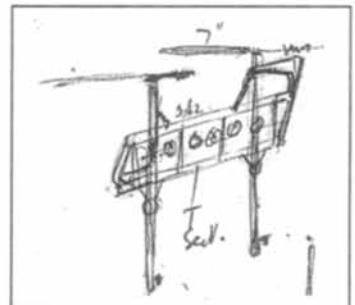
57UM
No plan available



58UM
No plan available



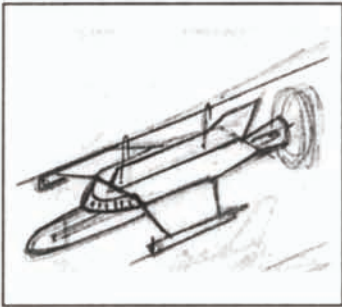
59UM
No plan available



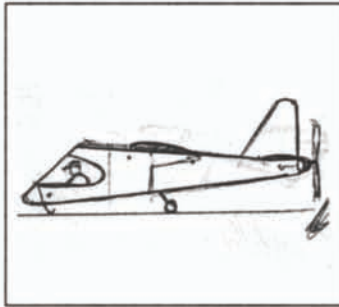
60UM
No plan available

49UM	Name unknown	(Line drawing) Source: Ray's sketch book. Twin helicopter. Ray's comments "failure, unstable, impossible to trim".	R Twin
50UM	Name unknown	(Line drawing) Source: Ray's sketch book. Pusher. "Good little flyer outdoors/indoors." 22.2 secs indoors. 25.30 outdoors.	R
51UM	Name unknown	(Line drawing) Source: Ray's sketch book. Twin electric profile	Electric(RTP)
52UM	Name unknown	(Line drawing) Source: Ray's sketch book. March 1976. Best flight 28 secs 12 March 1976. "Files quite well outdoors."	R(RTP)
53UM	Electrair	(Line drawing) Source: Ray's sketch book. "Model flies well. Very stable - good glide - but climb only fair on the minimal power from the Mabuchi-A1 motor."	Electric
54UM	Name unknown	(Line drawing) Source: Ray's sketch book. Canard. Riko whip electric motor	Electric(RTP)
55UM	CO ₂ Star	(Line drawing) Source: Ray's sketch book. June 1977	CO ₂
56UM	Name unknown	(Line drawing) Source: Ray's sketch book. Rubber version of CO ₂ lifting fuselage research model.	R
57UM	Name unknown	(Line drawing) Source: Ray's sketch book. Disc shape with winglets. Dec 78	R
58UM	Name unknown	(Line drawing) Source: Ray's sketch book. Canard futuristic design.	Electric(RTP)
59UM	Name unknown	(Line drawing) Source: Ray's sketch book. Feb/Mar 1979 improved version of (58UM)	Electric(RTP)
60UM	Name unknown	(Line drawing) Source: Ray's sketch book. Helicopter twin.	R
61UM	Name unknown	(Line drawing) Source: Ray's sketch book. Captive on line. Futuristic design	P
62UM	Name unknown	(Line drawing) Source: Ray's sketch book. Pusher Canard.	R
63UM	Name unknown	(Line drawing) Source: Ray's sketch book. Helicopter.	R
64UM	Name unknown	(Line drawing) Source: Ray's sketch book. Elliptical wings	R Biplane
65UM	Name unknown	(Line drawing) Source: Ray's sketch book. Autogiro	R
66UM	Name unknown	(Line drawing) Source: Ray's sketch book. Ducted lifting body.	P
67UM	Name unknown	(Line drawing) Source: Ray's sketch book. Disc shape.	CG
68UM	Mountie Mk I	1955? Picture of Ray showing model to Bill Dean at Waterbeach Nationals.	P (ED .046)
69UM	Orion	June 1992. (Line drawing) Source: Drawing sent to Mike Parker from Ray. High wing with winglets and mono wheel undercarriage. Under fins on tailplane.	R 17"
70UM	* _{f1} Name unknown	Sept 1993. (Line drawing) Source: Drawing sent to Mike Parker from Ray. Mid-wing on built up fuselage with no tailplane. Intended for indoor. Plan drawn by Terry King March 2008.	R 12"

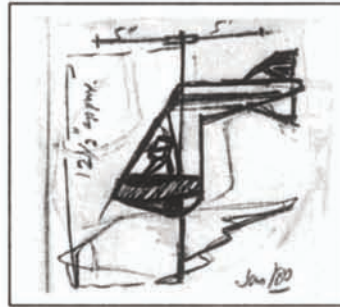
Unpublished Models – *continued*



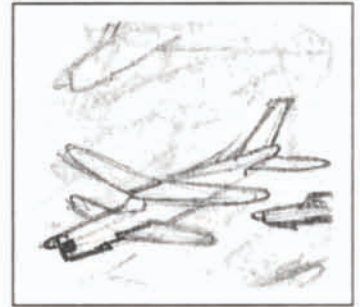
61UM
No plan available



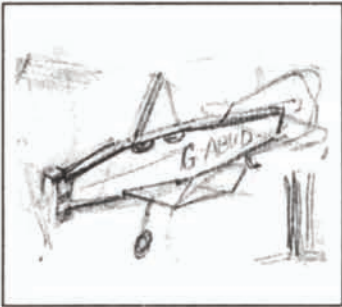
62UM
No plan available



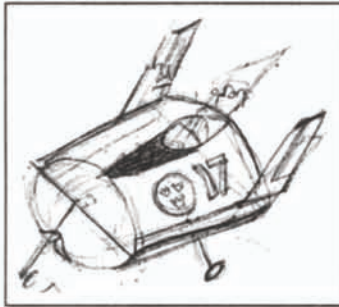
63UM
No plan available



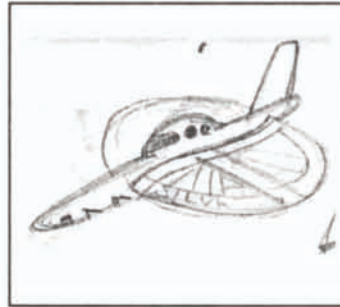
64UM
No plan available



65UM
No plan available



66UM
No plan available



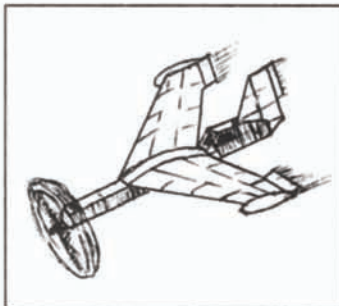
67UM
No plan available



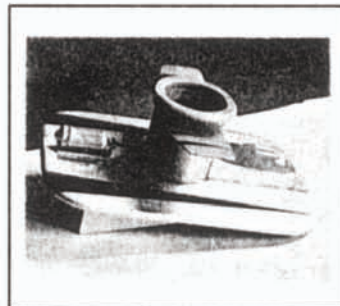
68UM
No plan available



69UM
No plan available



70UM



71UM
No plan available



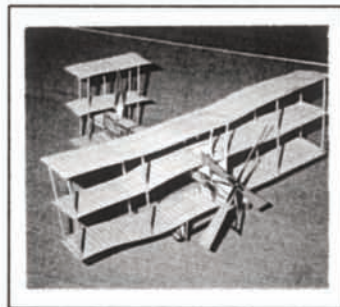
72UM
No plan available



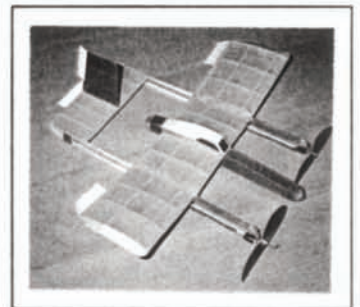
73UM
No plan available



74UM
No plan available



75UM
No plan available



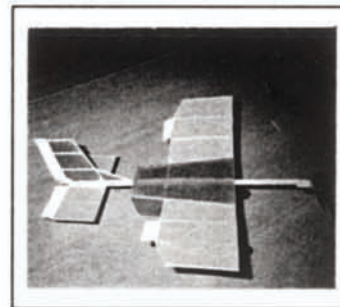
76UM



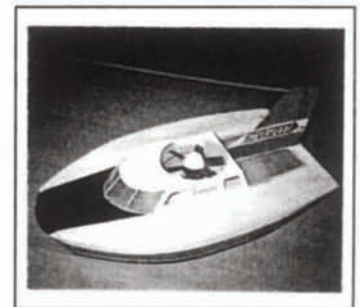
77UM



78UM



79UM



80UM
No plan available

71UM	Aquahova	1960. (Picture only) Published in the <i>Eagle Book of Spacecraft Models</i> , p. 27. A fast moving water-skimming craft. Powered by a Jetex PAA-loader. Weight 4 ozs.	J
72UM	Lockspeiser LDA-01	1970. Model given to Derek Camps by Ray. Semi-scale.	R
73UM	Jetex Jim	1953 (Picture only) Taken by Terry King at Radlett.	J
74UM	Name unknown	Jan 1953. Parasol-wing built specially for duration. Mentioned in <i>C.E.N.</i> 23 January 1953.	J
75UM	Avroplane	All card scale model. Static display. Possible prototype for ceral packs. Peter Malmstrom has original.	Solid
76UM * _{£1}	Miss Starstruck Flair Phil Bendix Racer	2002. April. Drawn by John McIntyre from original model belonging to Peter Malmstrom.	R 13"
77UM * _{£2}	Name unknown	2002. April. Drawn by Clive King from original model belonging to Peter Malmstrom.	R 21 ^{1/2} "
78UM * _{£1}	Skymini	2002. October. Drawn by Tony Harper from original model belonging to Peter Malmstrom.	R 10 ^{3/4} "
79UM * _{£1}	Mini-Metro-Air	2002. May. Drawn by Chris Strachan from original model belonging to Peter Malmstrom. Small version of Metro-Air with stick fuselage.	R 10 ^{1/4} "
80UM	Hovaspeed	Hovercraft. Peter Malmstrom has original.	E
81UM * _{£1}	Dawnrida	2002. April. Plan drawn from original model belonging to Peter Malmstrom by Michael Marshall. All sheet model.	R 13 ^{1/2} "
82UM	DH 84 "Dragon"	Scale model sold to Jersey Airlines' pilots to help pay for flying lessons in 'Gipsy Moths' during the 1930s.	Solid
83UM	Name unknown	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
84UM	DH 84 "Dragon"	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
85UM	Royal Aircraft Factory F.E. 2d	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
86UM	Percival Proctor	G-AGTF. Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
87UM	Handley Page Harrow	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
88UM	Cierva Autogiro	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
89UM	Supermarine S.5 or S6	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
90UM	Name unknown	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
91UM	Name unknown	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
92UM	Name unknown	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
93UM	Name unknown	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
94UM	Airspeed Envoy	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
95UM	Name unknown	Picture appeared in <i>C.E.N.</i> , 8 January 1994, p. 7.	Solid
96UM	Name unknown	Picture appeared in <i>I.P.</i> , 9 January 1975, p. 3.	E(RTP)
97UM	Name unknown	Picture appeared in <i>I.P.</i> , 9 January 1975, p. 3.	J
98UM	Name unknown	Picture appeared in <i>I.P.</i> , 9 January 1975, p. 3.	R
99UM	Name unknown	Picture appeared in <i>I.P.</i> , 9 January 1975, p. 3.	CL
100UM	Name unknown	Picture appeared in <i>IVCMAC Newsletter</i> , March 1986.	P

Unpublished Models – *continued*



81UM



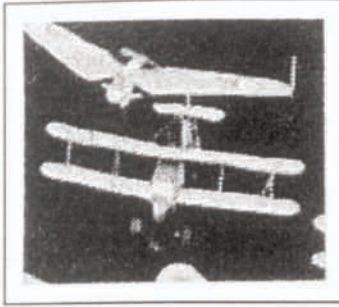
82UM
No plan available



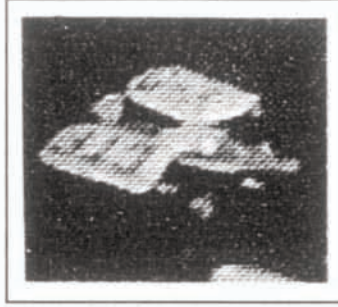
83UM
No plan available



84UM
No plan available



85UM
No plan available



86UM
No plan available



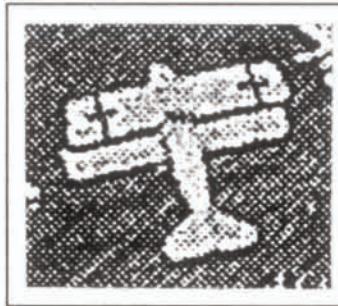
87UM
No plan available



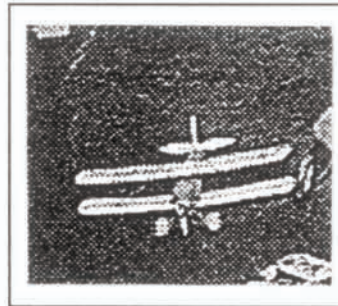
88UM
No plan available



89UM
No plan available



90UM
No plan available



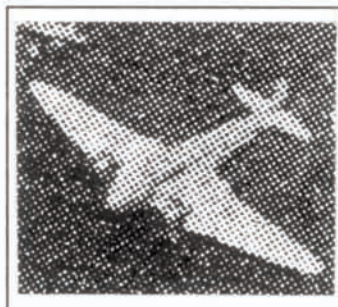
91UM
No plan available



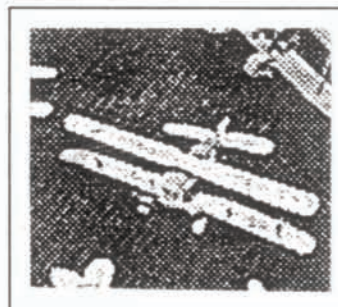
92UM
No plan available



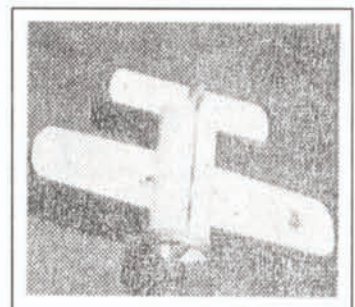
93UM
No plan available



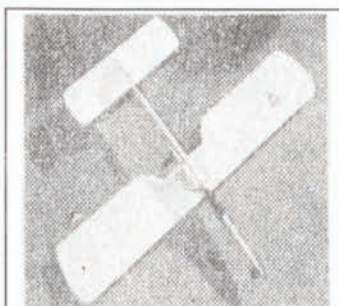
94UM
No plan available



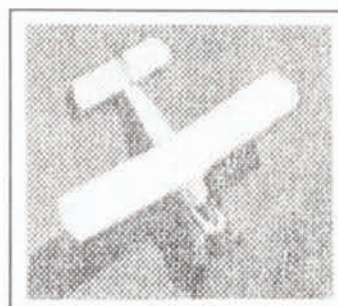
95UM
No plan available



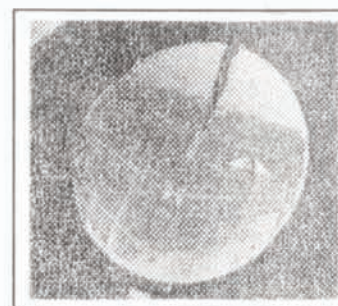
96UM
No plan available



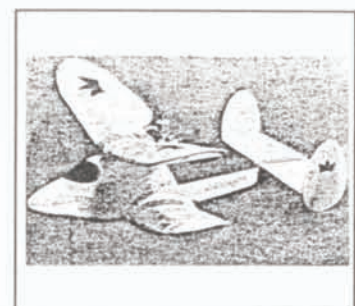
97UM
No plan available



98UM
No plan available



99UM
No plan available



100UM
No plan available

101UM	Name unknown	Picture appeared in the <i>Daily News</i> , 12 November 1957. One of Rays helicopters	R
102UM	Dave Kneeland	Picture appeared in <i>Aeromodeller</i> , October 1953, p. 589.	J50
103UM	Name unknown	Picture appeared in <i>Aeromodeller</i> , August 1953, p. 488, also <i>Model Aircraft</i> , August 1953, p. 386. Ducted fan	CL .75 22"
104UM	Skyabout	Picture appeared in <i>Aeromodeller</i> , June 1958, p. 205.	R 18"
105UM	Prop-in-a-barrel	Picture appeared in <i>Model Aircraft</i> , July 1956, p. 240.	P
106UM	Auster B.4.	Line drawing appeared in Ray's Squadron book. Scale rubber powered model of the light cargo/ ambulance plane. Wide bladed balsa prop. October–November 1951.	R 17"
107UM	Black Widow	Picture appeared in Ray's Squadron book. Scale model of the famous American fighter of World War II. 1945.	R
108UM* _{50p}	Boeing 737	Ray's original picture. Intended to be published in Meccano Magazine.	G
109UM	Cyclone	Image appeared in Ray's Squadron book. Control line stunt model. January 1950.	CL ED Bee
110UM	Delta	Image appeared in Ray's Squadron book.	J50
111UM	Hovajet	Ray's original picture. Hovercraft.	P
112UM	Impair Contest	Picture from Ray's personal collection.	R
113UM	Invicta	Image appeared in Ray's Squadron book.	R Twin
114UM	Jetex 50	Image appeared in Ray's Squadron book. Developed for the Jetex 1950 contest. Weight with unit loaded slightly over 1/2 oz. No dope. Performance 1–1 1/2 min. Best flight at Fairlop in contest. 1 min 27 secs in dead air. O.O.S. 4 min 30 secs Radlett Aerodrome, 19 August 1951.	J50
115UM	Low wing	Image appeared in Ray's Squadron book. 6 strands 1/8 × 1/30. 18" long or 4 strands 1/32 sq.	R 22"
116UM	Major	Image appeared in Ray's Squadron book. Airscrew Frog flexible 7 × 6". All up weight 8.75 ozs. Fitted with M.S. 1 3/4" airwheels. First flown mid-May 1949. Designed April 1949.	CL ED Bee
117UM	Marquita Mite	Image appeared in Ray's Squadron book. A smaller successor to the highly successful F/F design the MARQUITA. April–May 1952	F ED .46
118UM	Master	Image appeared in Ray's Squadron book. Diamond fuselage gusseted throughout entire length. No undercart. Soft balsa tips. 1/16 sheet fin. Girder braced tail plane. Modified with a slab-sided fuselage built by Terry King and Ray in two hours! Weight 1 1/4 ozs without motor. Length 19 3/4". February–March 1951.	R 24"
119UM	Mavis	Image appeared in Ray's Squadron book. 4 seater semi-scale. Colour scheme of blue and grey. August–September 1950	CL .75 Mills

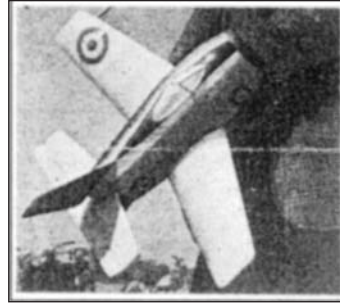
Unpublished Models - continued



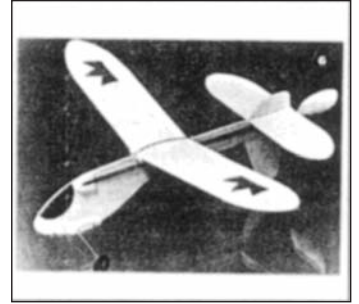
101UM
No plan available



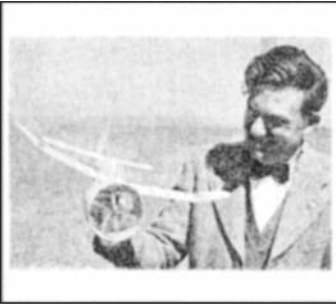
102UM
No plan available



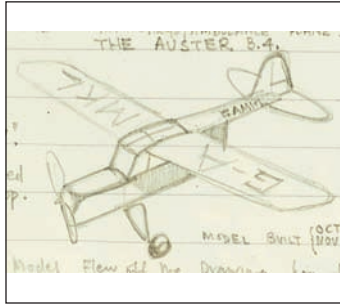
103UM
No plan available



104UM
No plan available



105UM
No plan available



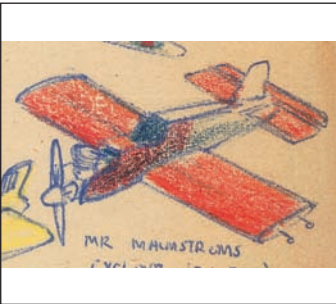
106UM
No plan available



107UM
No plan available



108UM



109UM
No plan available



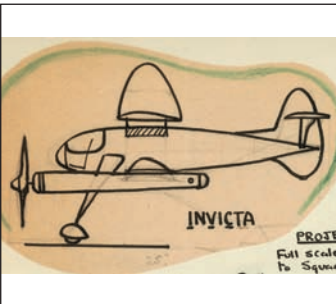
110UM
No plan available



111UM
No plan available



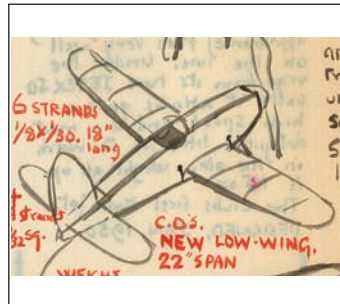
112UM
No plan available



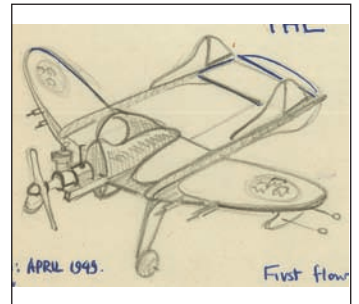
113UM
No plan available



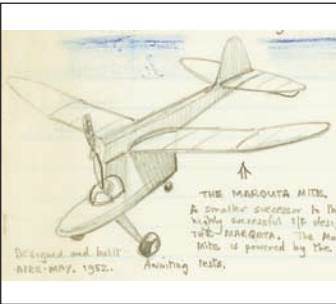
114UM
No plan available



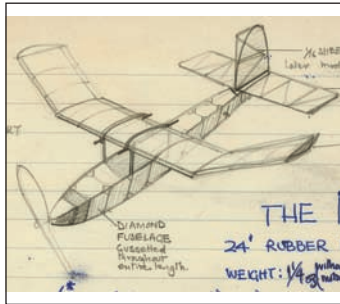
115UM
No plan available



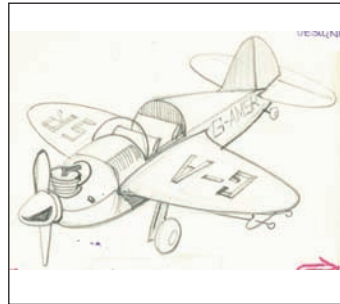
116UM
No plan available



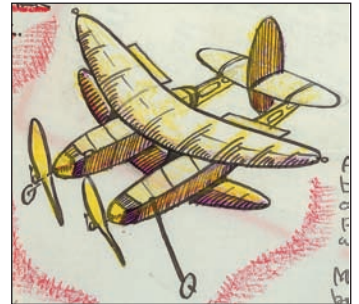
117UM
No plan available



118UM
No plan available



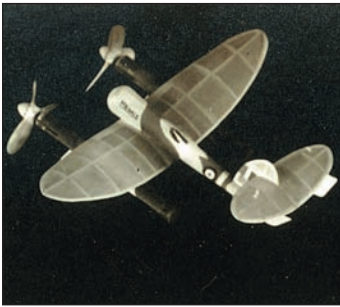
119UM
No plan available



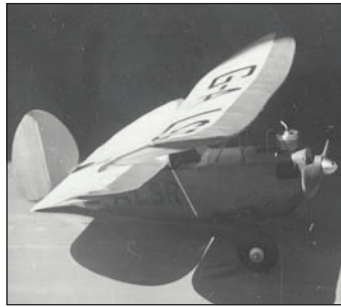
120UM
No plan available

120UM	Meanderer	Image appeared in Ray's Squadron book. A successful twin-motor biplane, on the lines of two well-known predecessors – The Horus and The Polly. R (RTP)
121UM	Menace	Picture appeared in Ray's Squadron book. Photographed after 3,584 yards of flying. Powered by two motors of 4 strands $\frac{3}{16} \times \frac{1}{30}$ rubber driving two three-bladed contra-rotating airscrews. Speed 13–15 mph. January 1948. R twin
122UM	Mignon	Picture appeared in Ray's Squadron book. Experimental tandem-wing design. Designed November 1949. Built March–April 1950. Tested May 1950. All up weight $7\frac{1}{2}$ –8 ozs. Prop $6\frac{1}{2} \times 6$. P ED Bee
123UM	Minor	Image appeared in Ray's Squadron book. Designed as a control line trainer rather in the nature of a challenge to the rather complicated and more difficult to build commercially produced Phantom Mite. Colour scheme blue and grey. Dotted line shows proposed cowl over engine. Designed and built October–November 1950. CL .75 Mills
124UM	Miranda Mk 1	Image appeared in Ray's Squadron book. Single seat sports aircraft. Engine .2 Hawk (Kemp). Engine No. 771. Length $14\frac{1}{2}$ ". Weight 3.5 ozs. Model flew reasonably well and was very sensitive on the controls, but to get a real performance needs a .4 or .5 motor. Built March 1948 CL .2 14"
125UM	Mistral Mk 2	Picture appeared in Ray's Squadron book. Model had a fast steady glide but proved to be unstable on powered flight. Model badly damaged on tests 11 August 1948. Built July 1948. J100
126UM	Moonjet Mk 1	Picture appeared in Ray's Squadron book. Model flown successfully in the college hall June–July 1948. Model has a good performance R.T.P. Length $14\frac{1}{2}$ ". Weight 2.25ozs. Built June 1948. J100 20"
127UM	Moonraker 100	Image appeared in Ray's Squadron book. Polyhedral high wing duration design. Destroyed during tests. Followed by a modified design which was quite unstable and survived only a dozen flights. Designed for entry into the Jetex 1949 contest. Weight $1\frac{1}{4}$ ozs. J100 22"
128UM* _{ε1}	Moonstreak	Picture appeared in Ray's Squadron book. Designed for high speed flying round-the-pole. Proved to be an exciting model in free flight. Has done a perfect barrel-roll. Tabs added to wing tips for added stability in free flight. First public appearance in the College Hall during the Air Squadron demonstration at an open evening 28 March 1949. Weight $1\frac{1}{4}$ – $1\frac{1}{2}$ ozs. J

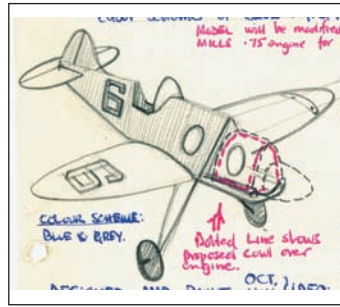
Unpublished Models - continued



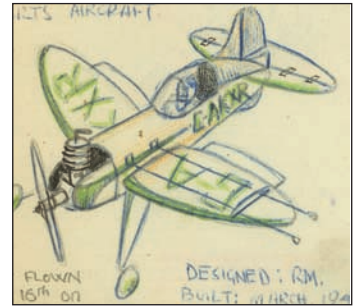
121UM
No plan available



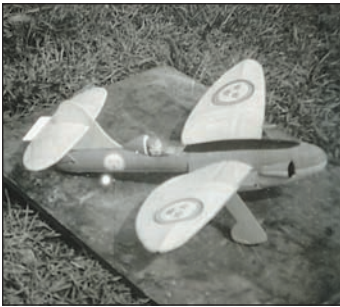
122UM
No plan available



123UM
No plan available



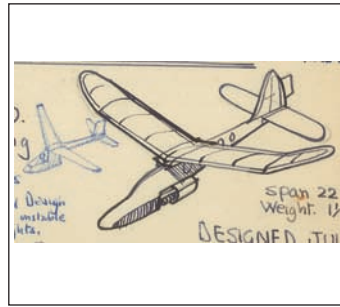
124UM
No plan available



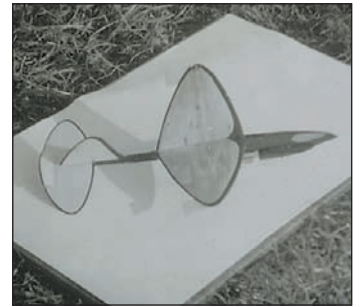
125UM
No plan available



126UM
No plan available



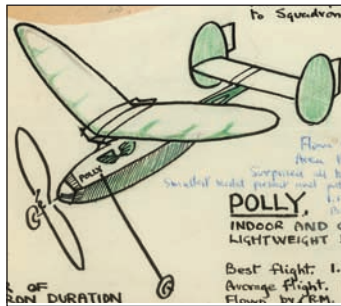
127UM
No plan available



128UM



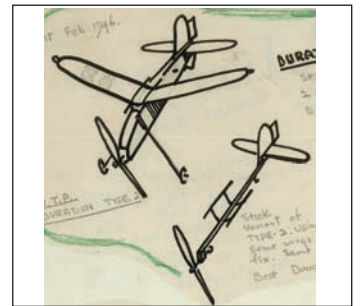
129UM
No plan available



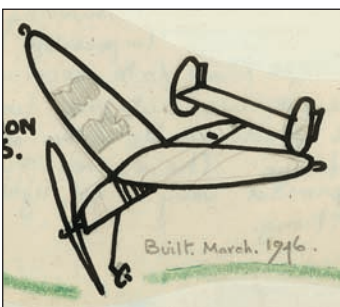
130UM
No plan available



131UM
No plan available



132UM
No plan available



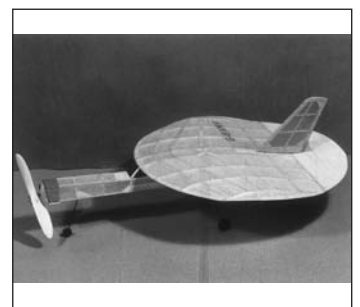
133UM
No plan available



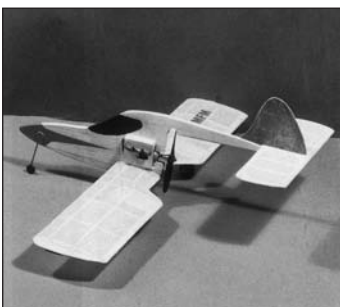
134UM
No plan available



135UM
No plan available



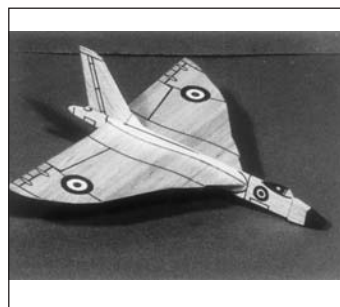
136UM
No plan available



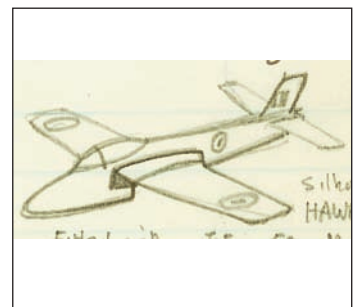
137UM
No plan available



138UM
No plan available



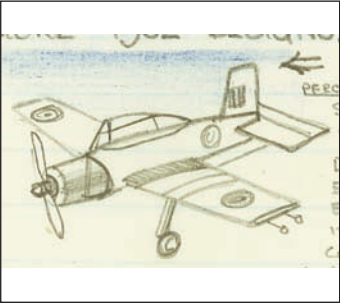
139UM



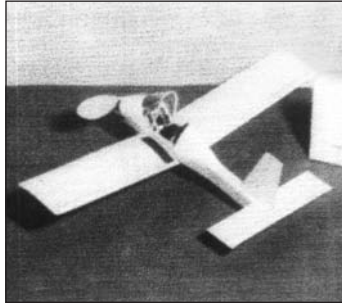
140UM
No plan available

129UM	Mowbray	Picture appeared in Ray's Squadron book. Semi-scale jet model. Complete with detailed pilot and cockpit. Test flown at Barton September 1948. Flown at Eaton Bray. Very stable and a pleasant model in every way to handle and fly. Designed and built August–September 1948. Flown in Jetex Finals, Fairlop Aerodrome, September 1949. J100	
130UM	Polly	Image appeared in Ray's Squadron book. Indoor and outdoor lightweight design. Flown in the Eastern Area Rally, 3 July 1948. Surprised all by being the smallest model present and putting up a flight of 1 min 12 secs. Flown by Billy Parker. Best flight 1 min 30 secs o.o.s. Average flight 1 min 10 secs.	R
131UM	R.1.	Image appeared in Ray's Squadron book. Twin motor biplane. 4 strands $\frac{3}{16} \times \frac{1}{30}$. Built February 1946.	R (RTP)
132UM	R.2.	Image appeared in Ray's Squadron book. Double surfaced wing. Durations 20–30 secs. A very consistent flyer. Flown continually on demonstrations from February–July 1946. Weight $\frac{1}{2}$ oz. approx. 2 strands (1 loop) $\frac{3}{16} \times \frac{1}{8}$ 18" long. Stick variant of type 2 using same wings and fin. Same power. Best duration free flight 43 secs. R.T.P. 35 secs. Built Febraury 1946.	R (RTP) 17"
133UM	R.3.	Image appeared in Ray's Squadron book. Indoor R.T.P. and free flight lightweight design. Good consistent flyer. 30–40 secs. Single surface wing. Built March 1946.	R (RTP)
134UM	Twin Jet	Image appeared in Ray's Squadron book. Twin jet semi-scale fighter. 2 Jetex 50 units. A diminutive job but one that despite the very low aspest ratio of its wings (giving it a very stubby appearance) flies very well on the line. Under the urge from its two Jetex 50 units it attains quite a high speed and is a most delightful little job to watch in the air. Weight all up is 1.25 ozs. The clubs first twin jet. Designed January 1950.	J50 twin
135UM	Name unknown	Picture from Ray's collection.	R
136UM	Name unknown	Ray's original picture.	R
137UM	Name unknown	Ray's original picture.	E (RTP)
138UM	Voltam	Picture supplied by Terry King.	R
139UM* _{50p}	Vulcan	Ray's original picture. Intended to be published in Meccano Magazine.	G
140UM	Hawker Hunter	Image appeared in Ray's Squadron book. Silhouette. Model has flown R.T.P. very successfully.	J50 (RTP)
141UM	Mig 15	Details appeared in Ray's Squadron book. Built from sheet as Hawker Hunter.	J50 (RTP)

Unpublished Models - *continued*



142UM
No plan available



143UM
No plan available

142UM Percival Provost

Image appeared in Ray's Squadron book. Silhouette type control line mode. Designed for the ED .46. Tests proved engine to be of insufficient power. Construction was simple and with a 1 cc engine model should fly well. 1952.

CL ED .46-1cc

143UM D.L.5

Image appeared in *Aeroplane Monthly*, January 1975, p. 36. Peanut size.

R 13"

Eagle Book of Hobbies*(Published by Hulton Press, 1958)*1E *_{f2} Flyabout R 15"**Eagle Book of Model Aircraft***(Published by Hulton Press, 1959)* Reviewed September 1959 p.429 Aero Modeller2E *_{f2} Airflo G 25"3E *_{f2} Starcrest R 20"4E *_{f2} EP 9 R 24"5E *_{f2} Excalibur J50b 17"6E *_{f2} Skygypsy P .76-1 35"7E *_{f2} Gee-Bee Sportster CL .76 15"8E *_{f2} Hall Racer CL 1-1.5 20"**Eagle Book of Spacecraft Models***(Published by Longacre Press, 1960)*9E *_{f2} Moon Rocket Catapult Glider 13"10E *_{f2} Deep Space Rocket Vehicle Jetex 50c - captive on a line11E *_{f2} Martian Flying Saucer Jetex 50c12E *_{f2} Man in Space Jetex 50c13E *_{f2} Earth Satellite Jetex 50c R.T.P.14E *_{f2} Terradelta Rubber powered land vehicle15E *_{f2} Helisaucer Control Line .76 DC Merlin or Super Merlin16E *_{f2} Space Patrol Craft Control Liner .75-117E *_{f2} Interplanetary Spaceliner Display Model**Eagle Book of Model Boats***(Published by Longacre Press, 1960)*18E *_{f2} Viking Warship Sail19E *_{f2} Jetriple Jetex 50c20E *_{f2} Hydrojet Jetex 50b or 50c21E *_{f2} Foam Queen Electric22E *_{f2} Harbour Tug Electric23E *_{f2} Cross Channel Steamer Electric24E *_{f2} Aquaskippa Diesel engine .4625E *_{f2} Ice Boat Jetex 50b**Eagle Book of Model Cars***(Published by Longacre Press, 1961)*26E *_{f2} Silver Streak Jetex 50c27E *_{f2} Satyr Racer Rubber28E *_{f2} Topsy Jetex 50c29E *_{f2} 1902 Cadillac Static30E *_{f2} Runabout Diesel engine ED.46 or Bantam .7631E *_{f2} MG.-A. Jetex PAA Loader32E *_{f2} Bluebird Jetex PAA Loader



FLYABOUT
1E



AIRFLO 2E



STARCREST 3E



E.P.9. 4E



EXCALIBUR 5E



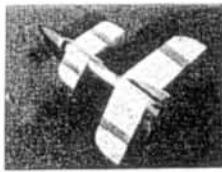
SKYGIPSY 6E



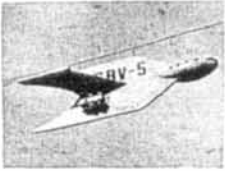
GEE-BEE TRAINER 7E



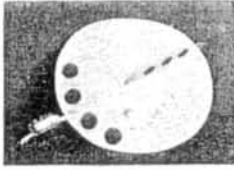
HALL RACER 8E



MOON ROCKET
9E



DEEP SPACE ROCKET
VEHICLE 10E



MARTIAN FLYING
SAUCER 11E



MAN IN SPACE
12E



EARTH SATELLITE
13E



TERRADELTA
14E



HELISAUCER
15E



SPACE PATROL CRAFT
16E



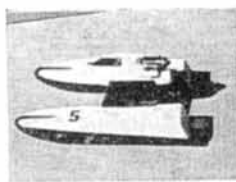
INTERPLANETARY
SPACELINER
17E



VIKING WARSHIP
18E



JETRIFFLE
19E



HYDROJET
20E



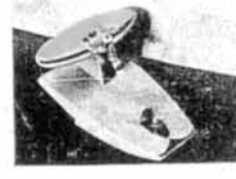
FOAM QUEEN
21E



HARBOUR TUG
22E



CROSS CHANNEL
STEAMER
23E



AQUASKIPPA
24E



ICE BOAT
25E



SILVER STREAK
26E



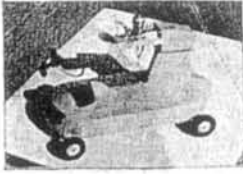
THE SATYR RACER
27E



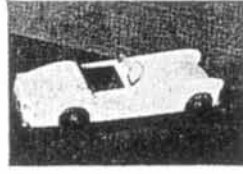
TOPSY
28E



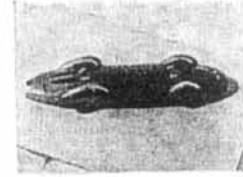
1902 CADILLAC
29E



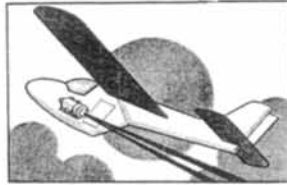
RUNABOUT
30E



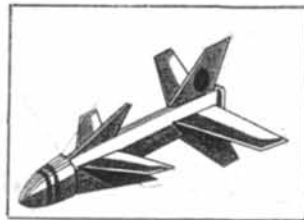
THE MG-A.
31E



THE BLUEBIRD
32E



SKYROVER
33E



ROCKET MISSILE
34E

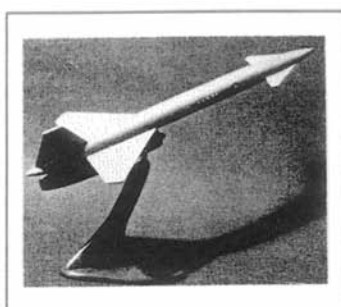


**AN AIRPORT
IDENTIFICATION BEACON**
35E

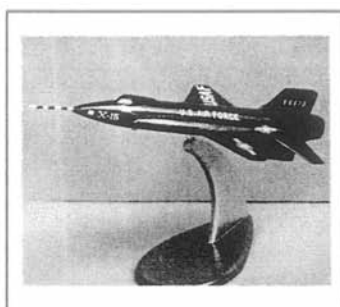
Space Craft Models by R. Malmström

(Published by ARCO Publications 1963)

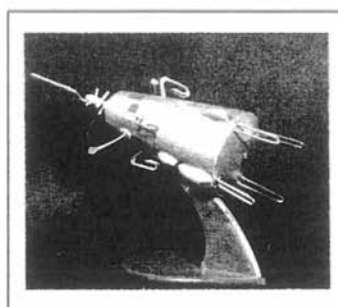
		<i>Pages</i>	<i>Type</i>
1SCM	* _{£1} American Hound-Dog Guided Missile	33-36	Solid
2SCM	* _{£1} Bell X-15 Experimental Rocket Aircraft	42-46	Solid
3SCM	* _{£1} Sputnik III	56-60	Solid
4SCM	* _{£1} Atlas Booster Rocket	67-71	Solid
5SCM	* _{£1} Carrier Vehicle and Moon Rocket	78-81	Solid
6SCM	* _{£1} Space Control and Cargo Rocket	87-91	Solid
7SCM	* _{£1} Space Station	100-104	Solid
8SCM	* _{£1} 'Mercury Project' Space Capsule	113-117	Solid
9SCM	* _{£1} Dyna-Soar Re-entry Vehicle	117-120	Solid
10SCM	* _{£1} Mach 7 Airliner	131-135	Solid
11SCM	* _{£1} Flying Saucer	136-140	J
12SCM	* _{£1} Delta control line	141-147	CL .010
13SCM	* _{£1} Tail-first airliner	148-152	G
14SCM	* _{£1} Robot lunar exploration spacecraft	153-156	Solid



1SCM



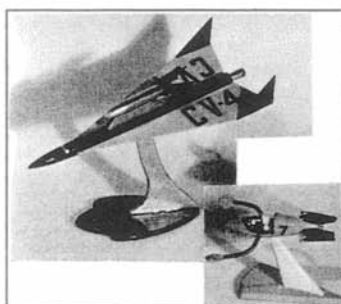
2SCM



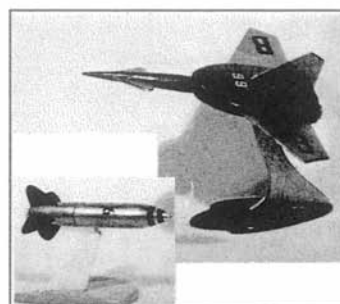
3SCM



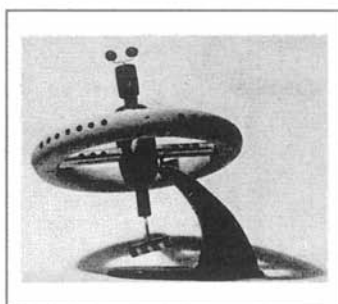
4SCM



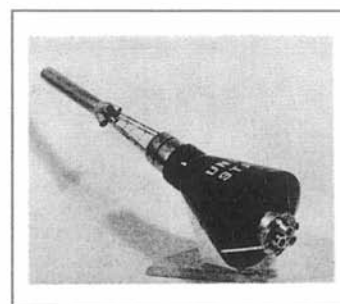
5SCM



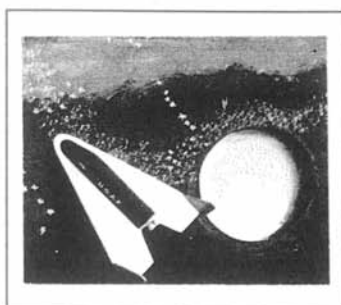
6SCM



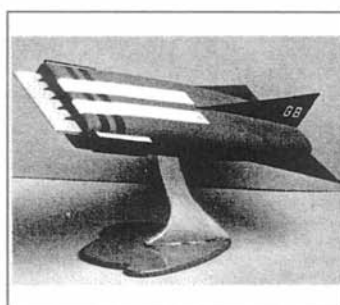
7SCM



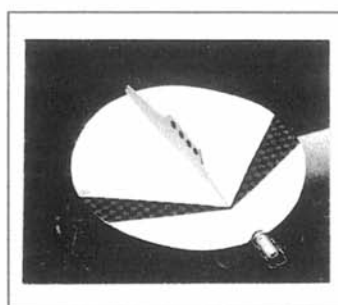
8SCM



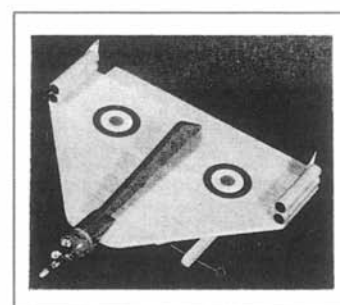
9SCM



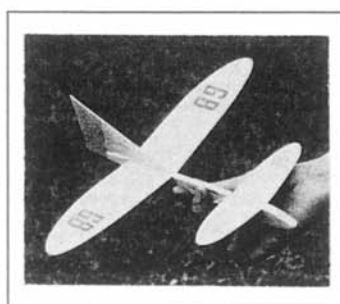
10SCM



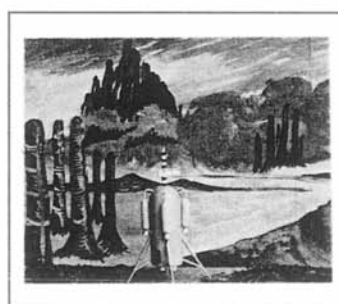
11SCM



12SCM



13SCM



14SCM

Aviation Modeller International / Aero Modeller

	<i>Date</i>	<i>Pages</i>	<i>Type</i>
Pee Wee (1A) [Reduced size]	Aug 2001	43	R 7 ³ / ₄ "
Hanriot (30A) [Reduced size]	Oct 2001	43	R 10 ¹ / ₂ "
Invicta (16UM)			
[Redrawn by Terry King]	Jan 2002	55-57	R 21 ¹ / ₂ "
Tiny Bee [Reduced size]	April 2002	58	R 5 ³ / ₄ "

Model Flyer

	<i>Date</i>	<i>Pages</i>	<i>Type</i>
Hanriot (30A) [Reduced size]	Aug 2001	8	R 10 ¹ / ₂ "
Canard-Air (6UM) [Reduced size]	Nov 2001	7	R 10 ¹ / ₂ "
Hollandair Libel (11MA)	Jan 2002	57-60	R 25"
Arrowair (2UM) [Reduced size]	Sept 2002	8-9	R 9 ¹ / ₂ "

Easy to Fly

Short film on Aeromodelling produced and photographed by Mr Frank Gardner. 1955.

Description about the film is published in *Aero Modeller* January 1956, p. 13. Ray is shown with some of his flying oddities and a picture of Ray holding *Leo Valentin* and *Martian Saucer* appears in the issue.

Cambridge Evening News articles

<u>Headline</u>	<u>Issue</u>
<i>Impington Model Aero Contest</i>	23 January 1953
<i>Modellers' Prizegiving</i>	<i>Daily News</i> 12 November 1957
<i>Ray's flying high - at ground level</i>	18 March 1974. p. 3
<i>Shady spot for aero modeller</i>	2 July 1976
<i>Model touch of aviation history</i>	11 July 1977
<i>The man who inspired 4,000 pupils</i>	3 August 1978. p. 14
<i>Ray reaches for the sky ... on the smallest of wings</i>	30 January 1985
<i>Celebration for model citizen Ray</i>	23 May 1986. p. 9
<i>Model maker voted top flight</i>	24 November 1986
<i>Modelling expert has his head in the clouds</i>	Copy of in IVCMAC Newsletter Feb 1993
<i>Modeller set to fly past 80</i>	8 January 1994. p. 7
<i>Present brings back memories of war</i>	25 July 1994
<i>Club founder dies, aged 87</i>	<i>Weekly News</i> 26 December 2001. p. 10
<i>Memorial for popular Ray</i>	6 March 2002. p. 10

Independent Press News articles

<u>Headline</u>	<u>Issue</u>
<i>Flying high - the model men of Impington</i>	9 January 1975

ACKNOWLEDGMENTS

Grateful thanks to the following, who have contributed to this undertaking for supplying memories, information, pictures, drawings and plans.

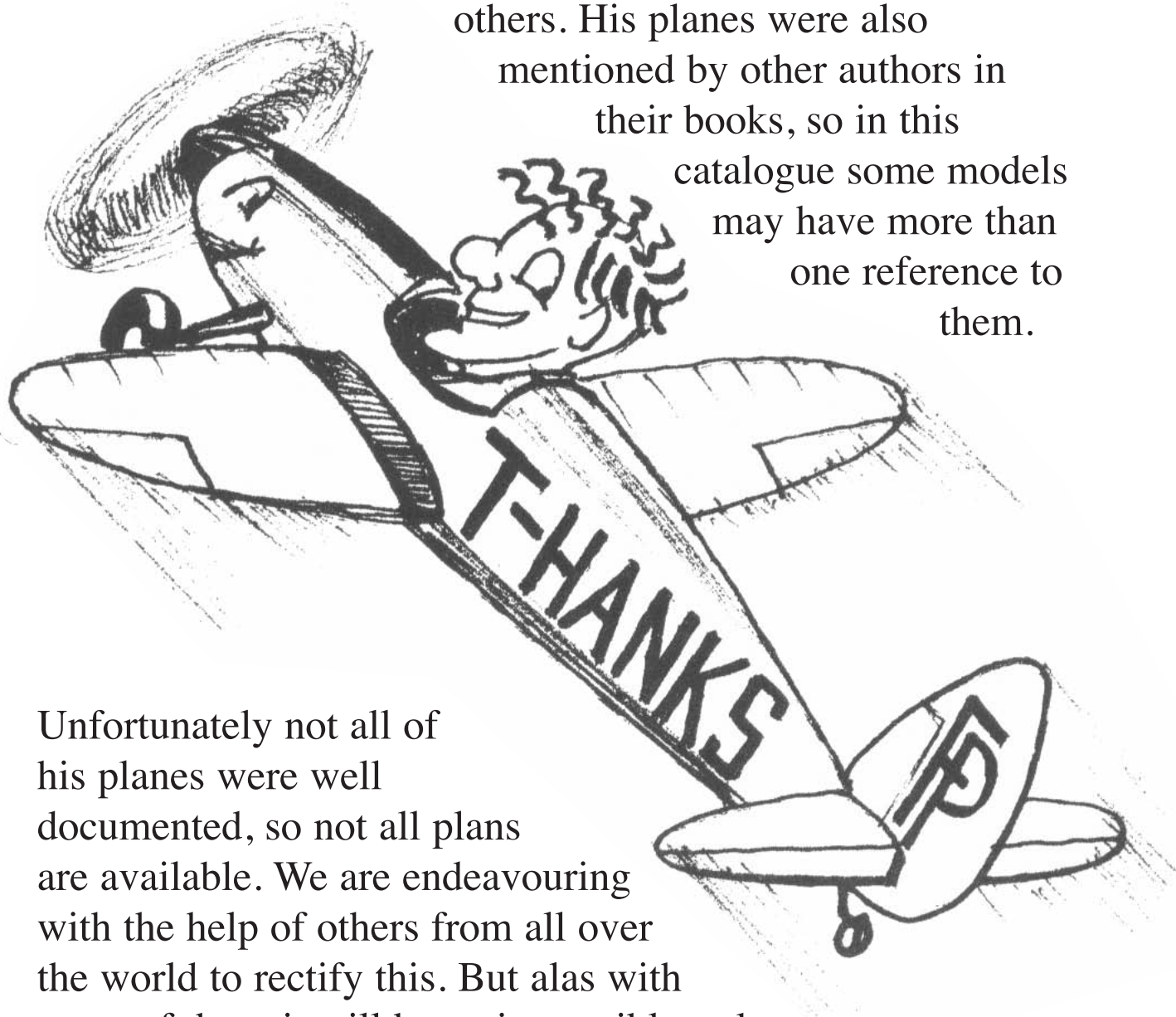
Dan Bateman	Alan Hunter	Gordon Parker
Gordon Beeby	Clive King	Mike Parker
Derek Camps	Terry King	Maurice Reynolds
Jim Elsegood	Bruce Lindsay	Dennis Sharman
Gray	Michael Marshall	Mick Staples
Tony Guilbert	Doug McHard	Chris Strachan
Bill Hannan	John McIntyre	Tim Upson-Smith
Tony Harper	Andrew Moorhouse	Geoff Waters
Michael Hayter	Ron Moulton	John Wynn
Chris Hinson	Paul Needham	
Peter Hoskison	John O'Donnell	

John Valiant 12.5.2008

208 plans available out of a total of 347

Ray's plans were published in many magazines like Aero Modeller, Model Aircraft, Meccano Magazine and many others. Also they appeared in his books, mainly "The Eagle Book of" series plus various others. His planes were also mentioned by other authors in their books, so in this

catalogue some models may have more than one reference to them.



Unfortunately not all of his planes were well documented, so not all plans are available. We are endeavouring with the help of others from all over the world to rectify this. But alas with some of these it will be an impossible task. If you have any of these plans or pictures we would be very pleased to hear from you.

I.V.C.M.A.C.