

THE VOICE OF CONTROL LINE AEROMODELLERS FROM AROUND AUSTRALIA

Number 204

Produced by the Victorian Control Line Advisory Committee



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PRODUCTION SPECIFICATIONS

**Pease send any submissions for publication by CD/
memory storage device or use Email.**

Contest results should be tab delimited, i.e. use a single tab between each column of results, if submitted by disk or email. This makes formatting much easier on the editor.



COMING EVENTS



VICTORIAN CONTROL LINE

CONTEST CALENDAR 2015

DATE	EVENT	CLUB
Dec 13	Vintage A , Classic B, Classic FAI	CLAMF
Dec 13	Club Day and Christmas Party	KMAC
2016		
Jan 31	Coreflute Combat Invitation	KMAC
Feb 28	Hearn's Trophy and Yeoman Novice	KMAC
Feb 14	Speed , Navy Carrier, Simple Rat Race	CLAMF
Mar 12-14	S.A. C/L State Champs (events TBA)	Monarto
Mar 25-28	VMAA C/L State Championships. (events TBA)	CLAMF, KMAC
Apr 24	KMAC Carnival	KMAC
Apr 10	Coreflute Combat, 27 Goodyear, Goodyear	CLAMF
May 4-14	World Cup & C/L World Championships	Perth
May 29	All Aussie, Vintage Combat	KMAC
Jun 4-6	NSW C/L State Champs (events TBA)	
Jun 12	Classic FAI & Vintage A T/R, 1/2A Combat	CLAMF
Jul 10	Speed , Classic Stunt, Mini-Goodyear	CLAMF
Jun 26	Rat Race invitation and club day	KMAC
Jul 31	Warbirds and AGM	KMAC
Aug 14	Navy Carrier, 27 Goodyear, Goodyear	CLAMF
Sep 11	Speed , Vintage Combat	CLAMF
Oct 1-3	NSW C/L State Champs – Speed, F2C T/R (inc. supporting events)	Albury
Oct 16	Coreflute Combat, F2B & Classic Stunt	CLAMF
Nov 13	Speed , Warbird Stunt, Vintage Combat	CLAMF
Dec 11	Classic FAI & Vintage A T/R, Classic B T/R	CLAMF

Events will be flown in order of printing. Events in **Bold type** will be flown over hard surface.

CLAMF Frankston Flying Field, Old Wells Rd, Seaford (Melway 97J10), GPS -38.086777, 145.148009
10.00am start
Contact :- Secretary, H. Bailey (03) 5941 5978
Email :- clamf@ozemail.com.au
Web site :- <http://clamf.aerosports.net.au/>

KMAC Stud Rd. Knoxfield.
(opposite Caribbean Gardens) (Melway 72 K9) 10.00am start.
Contact:- Steve Vallve 0409935358 or
Bruce MacKay 0418380014
Web site :- <https://sites.google.com/site/knoxmacv/home>

CLAG has monthly fly-ins at the Moe Race Track every first Sunday of the month.
Contact :-Treasurer. Alan Frost
Email:- afrost2@skymesh.com.au
Phone 03 52817350
Secretary. Graham Vibert
Phone 03 51346393



COMING EVENTS



C.L.A.S. CONTEST CALENDAR 2015

DATE	EVENT	CLUB
Dec 6	F2B Aerobatics.	Doonside.

DOONSIDE- Baseball diamond, Whalan Reserve.

Grass Rat Race Competition

(Scheduled by popular demand)

Date: **December 5th 2015**

Venue: **AAC, Unley Road City**

Time: **Practice from 9 am**

1st Round starts 11 am

Format: 2 Rounds of 100 lap heats, 1 pit stop req'd.
200 lap Final (teams with 3 best heat times)

Catering: Soft drinks only for sale, BYO everything else.

Notes:

- All entrants must be MAAA members with a membership card.
- Safety straps are required on all handles in all events.
- All glow motors 2.5 cc and above must be fitted with an effective muffler.
- All other rules per MAAA 2.5 cc Rat Race except no ROG requirement and heat / final format as above.
- Hot Weather Policy – the event will be postponed to the following week, i.e. December 12th if the Bureau of Met. forecast for Adelaide is-sued on Saturday morning predicts a maximum temp. of greater than 36C.**

For further info contact:

Peter Anglberger 8264 4516 or 0448 433 282



The views and opinions expressed in ACLN do not necessarily reflect those of the Editor or Committees of Clubs or of the members of the Club represented in ACLN but are those of the respective authors.

Any comments, queries or complaints with respect to any article in this publication should be addressed to the author of the article.

The Editor and Committee of Clubs accept no responsibility or liability for any loss or damage incurred or suffered by anyone as a result of this publication or in reliance upon or as a result of acting upon anything contained in this publication.

World Championships Bulletin Number 2 is available here:-
http://www.cl-wch2016per.org/Bulletins/Bulletin_2.pdf

News from 2WA

The 2016 Australia World Cup entry is open and quite active. If you intend to participate next May, you should be signing up now. Registration is by way of the World Cup website <http://www.cl-ausworldcup2016.org>

If you have already registered, you probably should go to the World Cup website and click in the "Entrants" tab. Go find yourself in the listings, make sure that you have been entered correctly and that you are entered in the correct events. If you need to make any corrections, you can write to Webmaster@cl-ausworldcup2016.org for help



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ZXG Extreme Glare Sunglasses  <p>Block sun glare better than polarized glasses. Can easily read LCD screens. Available as standard or as fit-overs for prescription glasses. Adjustable and bendable temples. Optical quality polycarbonate lenses. Extremely strong & durable.</p>	BECC Decals, Logos & Graphics  <p>Vinyl decals, logos, graphics & lining. A huge range of colours & sizes. A multitude of uses. Easy to lift and apply to all surfaces. Up to 400 characters per letter pack. Waterproof exterior adhesive. Exceptional quality.</p>	Deluxe Materials Model Adhesives  <p>Deluxe Materials produce a wide range of specialist adhesives and accessories to make your modelling experience a lot easier and more enjoyable. Ideal for all types of modelling especially since most products are water wash up Wide range of Epoxies, Emulsion glues, cloths, resins & filler products plus a great assortment of accessories.</p>	Perma-Grit Tools (Tungsten Carbide)  <p>Next to diamonds, Perma-Grit Tools are made from the hardest materials available. Virtually indestructible, they are ideal for professionals who require the best & longest lasting tools available. Great for all types of woods, plastics, aluminium, carbon fibre, glass fibre, polystyrene, perspex, acrylics, MDF, and much more....</p>	RCATS Lithium Glow Driver  <p>The first commercially available glow plug driver utilizing lithium battery technology to provide a means for power. This unique unit allows for unrivalled longevity between charges. The unit can last over a year before needing recharging! It also includes many powerful features that makes starting your engine easy and just as enjoyable as your flying.</p>	Prather's Super Silicone Fuel Line  <p>Available in Small, Medium, and Large, Prather's pink-translucent fuel tube is specifically designed for nitro and water use (do not use for gasoline). Fuel Proof Stays tight on fitting Won't kink Won't get hard</p>
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New Models

I decided to build a new C/L stunt trainer. I need the practise.

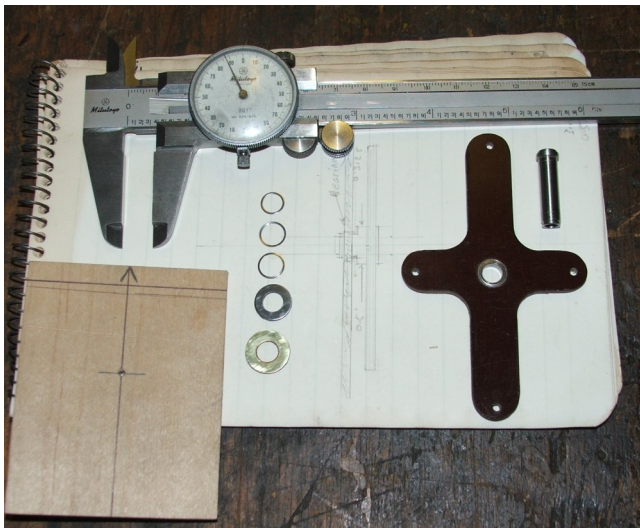
Looking through ancient Aeromodeller magazines a free plan from February 1991 edition caught my eye. **Big Tiger** by C. Maikis.

Like any model, I like to build them straight so made a wing jig - it seems to have been a useful exercise.

After building the wings my attention turned to a bellcrank. Having a few slabs of 3mm Paxolin in the goody box I made one to the plan size but added a ball-race to the pivot (salvaged from an ancient hard-disk). Now should I bush the lead-out and control rod holes?

Motive power shall be a Merco .35 once I dump the r/c carby and make a proper C/L venturi.

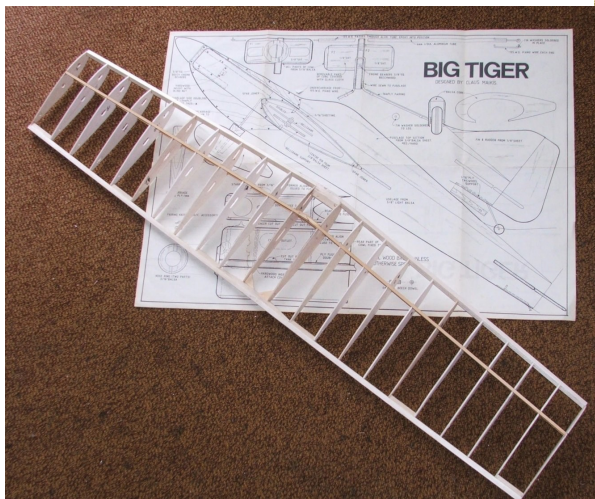
Here are a few photos of progress.



Covering shall be silk and dope with a sprayed epoxy paint job (I am very old fashioned). I have about 80 cans of K&B Super Pox that I bought on the cheap (\$50) from a closing down hobby shop so nitro-proofing is not a worry. I only use about 5% nitromethane anyway.

It flies nicely at last, should have taken up this game long ago but the dark side (r/c) stole my attention and Free Flight has always been my first love. Neilo Baker (#1 C/L pitman) was actually my runner when we managed to beat 50 other contenders at the Bendigo Nats many years ago in the night scramble.

* Danny M *



AAC Grass Rat Race 7 Nov 2015

Glorious 28 degree weather and a green freshly mown field greeted 5 teams keen to compete in the second Grass Rat race event at AAC this year.

This event is flown to MAAA 2.5 cc Rat Race Rules but without the ROG requirement, although there was only one model entered that required hand launching

The models were similar Clarkson A Rat variants or Goodyears. Heats were 10 minutes and the final, normally 20 minutes, was reduced to 10 minutes. Whipping is allowed and for safety all pilots must wear wrist strap, so hand changing is not allowed. Every team had the opportunity to fly two heats.

The day started at 9.30 marking out the circle and getting some practice in. The racing started promptly at 11 and the first two up heat saw good close racing that would be the norm for the day. The finalists agreed to a 10 min final due to the warm conditions.

World Champs mechanic Mark Poschkens as pilot teamed with ace flyer Murray Wilson on the oily end were off to an almost instant start. Duncan who had been drafted in to fly for Mike Davies as team members had been doubling up, took the handle without a practice flight, and guided Mikes MVVS powered Rat model smoothly into the air. Jeff and Peter were not far behind with a refurbished Parra in a Rat model, all pilots were soon sweating it out in the heat as a whipping battle took place.

Mark and Murry needed extra pit stops but with Mark's Nelson on song and his strong arm flying style, superior airspeed and error free pit stops saw them lead throughout.

Duncan put his arm to work to help the MVVS, but at the take off after the pit stop, inadvertently tripped the shut off so lost time restarting. Jeff and Peter were going well until a split fuel line sent the Parra lean, slowing them down and finally forcing them out 2 minutes from the end, bad lucks but that's racing.

Mark and Duncan pushed on even harder with Jeff now on the ground and at the end were only 7 laps separating the two teams. If only Bainbridge / Davies had not had an unfortunate shut off it might have been a different story!

Let's hope Mark and Murray replicate their Grass Rat success in Perth at the World Control Line Championships next May. Previous World F2C Champs Rob Fitzgerald and Mark Ellins were watching and Adelaide Aeromotive chief David Burke put in an appearance.

All entrants had fun and took their models home in one piece after a great day's racing which is always a good result.

Heat 1

Alan Morris / Duncan Bainbridge 188

Jeff Fry / Peter Anglberger 190

Heat 2

Peter Anglberger / Mike Davies 190

Mark Poschkens / Murray Wilson 204

Heat 3

Bainbridge / Morris 178

Fry / Anglberger. 185

Heat 4

Morris / Bainbridge. 181

Anglberger / Davies. 206

Final

Poschkens / Wilson 201

Bainbridge / Davies. 194

Fry / Anglberger. 128 DNF

Engines used:- Nelson, Fora, Parra, MVVS

Models used:- 3 Rat models, 2 27 Goodyears

A great days racing!

Report and picture by Duncan Bainbridge and Peter Anglberger



The finalists L to R

2nd Mike Davies - Mechanic / Duncan Bainbridge - Pilot, MVVS D7, Rat model

1st Murray Wilson - Mechanic / Mark Poschkens - Pilot, Nelson, Rat Model

3rd Jeff Fry - Pilot / Peter Anglberger - Mechanic, Parra, Rat Model



Monty Tyrrell Classic Stunt



The forecast was for a fine day, even so there was only a small turnout for this prestigious event. Conditions deteriorated as the morning progressed and the wind proved difficult particularly for Mr Koch. PJ had the wood on Mark from the outset and maintained the lead comfortably at the end of the second round. Andrew overtook Robin improving by 60 points with his second flight, a good effort. The McCoy in the Thunderbird pulled it around with authority and lovely 4:2:4 sound as it powered

through the verticals. The entertainment for the day rested with Harry. The poor old Fox .35 in the Red Devil burped and farted all the way through as Harry staggered around like a drunken sailor to keep the model in the air. A few people on the sidelines had their garbage bags ready to pick up the pieces but not required as it turned out. Harry is now called Captain Courageous in my book. Well done!

PJ is on the March to try and catch Doug Grinham's record 11 wins for this event. Well PJ, age is certainly on your side!

MAAA CLASSIC STUNT			EVENT SCORES				Best of 2 Flights			
	Contestant	EVENT SCORE	NOT USED	Round #1	Round #2	NOT USED	NOT USED	NOT USED	NOT USED	Final SCORE
1st	P J Rowland	1086.50	0.00	1068.00	1086.50	0.00	0.00	0.00	0.00	1086.50
2nd	Mark Ellins	1021.50	0.00	1015.00	1021.50	0.00	0.00	0.00	0.00	1021.50
3rd	Andrew Nugent	933.50	0.00	873.00	933.50	0.00	0.00	0.00	0.00	933.50
4th	Robin Hiern	893.50	0.00	893.50	836.00	0.00	0.00	0.00	0.00	893.50
5th	Peter Koch	885.00	0.00	885.00	819.00	0.00	0.00	0.00	0.00	885.00
6th	Harry Bailey	531.50	0.00	421.50	531.50	0.00	0.00	0.00	0.00	531.50
7th										



Tips & Tricks

A Couple of Building Hints.

How many times have you used the household iron and been jumped on for leaving sticky stuff on it? Have you used iron-on film and had the colour pigment stick to the iron and bleed to another section leaving streaks and marks on the second colour (red on white, for instance)? Solution: Heat the iron, put some salt on any sheet of paper and rub the iron over the salt. PRESTO! Iron face back in pristine condition.
—From the Tingalpa Transmitter in Australia

When drilling a hole in balsa, the wood has a tendency to splinter out and make a nasty mess where the

drill bit exits. Drip a few drops of thin Hot Stuff around the exit area of the drill bit and let it cure. You can now drill a hole and the wood will hold together much better. It may still splinter out some, but not nearly as much. This method also works great when drilling wing hold-down holes on built-up wings. —From the Windy Flyer newsletter, Downers Grove, Illinois

This is a cutaway of a GMS.61.

I have always wanted to do a cutaway but could not bring myself to cut up a motor.

Fortunately, I was at an auction a while ago and I managed to score a shoe box full of old worn, slightly damaged R/C motors. In amongst the box were 2 G.M.S .61's so that gave me my chance.

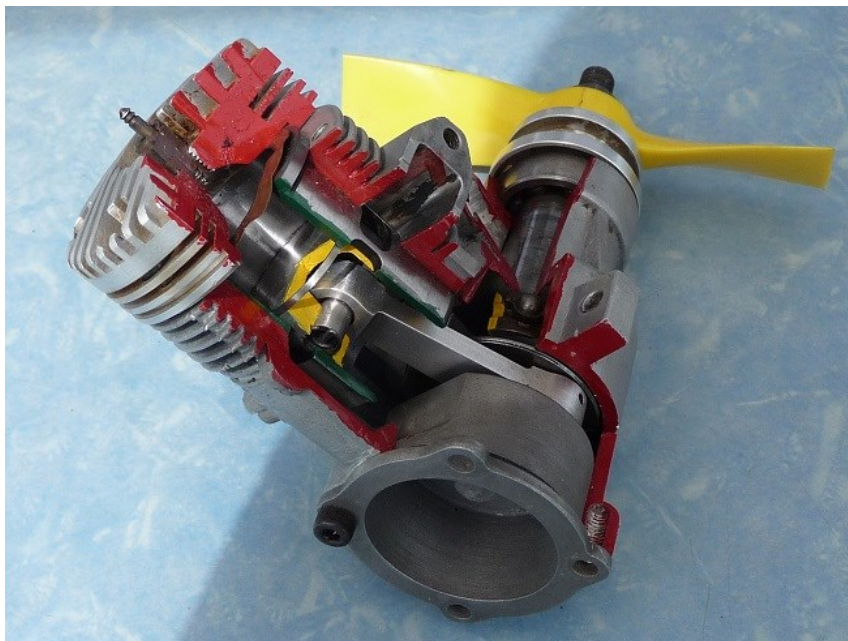
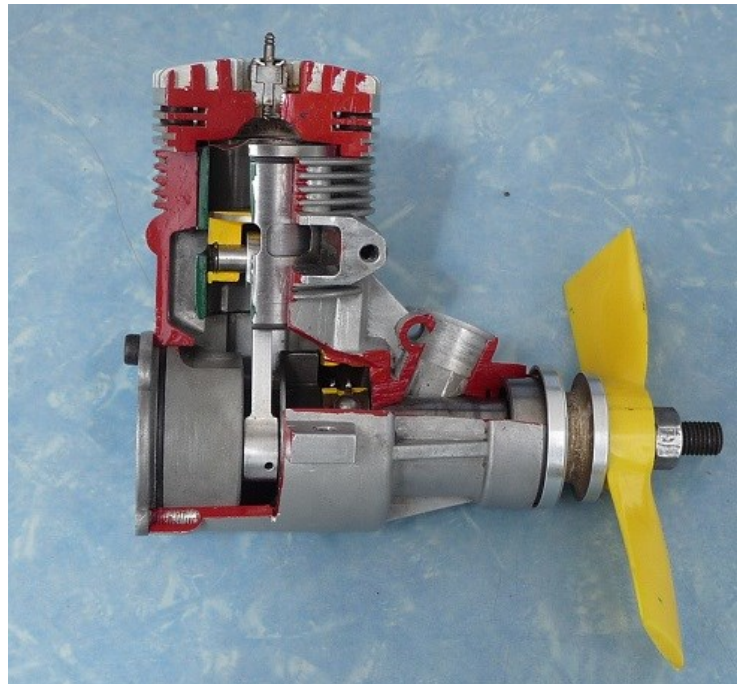
The hardest part was cutting the shaft and bearing, using a thin cut-off wheel.

A sectioned motor gives people an understanding of how a 2 stroke motor works as it turns and ports open and close .

I think I have improved the G.M.S by about 25 % as that is the amount I cut off.

Now all I need is a 4 stoke donor so I can try another one .

Robin Hiern



A.C.L.N. ADVERTISING

For the newer readers, we point out that "private" (personal) ads are free to subscribers, and "commercial" ads are \$20 per quarter page, or \$5 for business card size. Commercial Advertisers can receive a free business card size ad for submitting original articles of interest to A.C.L.N. readers.

Copy or artwork for ads should be sent to the editor, cheques to the treasurer (M.Wilson P.O. Box 298 Seaford, Vic. 3198) If you want to save a stamp, I can forward on any cheques sent with ads, but please make them payable to "Control Line Advisory Committee"



"I don't mess with dollies, I just use my kid's skateboard."

Letters to the Editor

Further to my piece on the Australian control handle/
reel, see who really invented it (I think).

The Kencraft Handle

Engine Collectors Journal, October 2015, describes the Ken .610 engine, with its unique “turbo Valve” induction system, made by The Kencraft Co. In California just after WW2. Also shown is this advert from December 1946, Model Airplane News. It would appear that Ken Wade (the man behind Kencraft) was the inventor of the combined control handle/reel that was to become so popular in Australia in subsequent decades..

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Maris Dislers

We are just cutting the AA15S66TBRD cases. We are looking at a better way to internally grind the liners by automatic means. That probably means the liners might not be completed till the end of December, after a new spindle gets constructed using ER8 collets, see attached pics.

You can see the new needle valve pads on the Mk2 casting, which was one of the design issues from the Mk1.

David Burke (Adelaide Aeromotive Pty.)



Combined Speed at Frankston 22-11-2015

A day of pleasant at weather the CLAMF field that was attended by members and visitors for a mixture of Combined Speed competition, some sports aerobatics and a little bit of model testing. A “Warbirds Stunt” competition was listed on the calendar but although there were seven models ready to fly, no judging of the flights took place. Murray Wilson put his recently completed electric motor powered warbird through it’s schedule pattern and it performed well.

Over on the hard surface, there was a broad selection of models flown. Robin Hiern Diesel returned from his break from modelling but as



he had been suffering all week with some sort of food poisoning he did not fly and joined Ron Savage for some flight timing duties.

Combined Speed Results.

Pos	Name	Class	Engine	Flight 1	Flight 2	Flight 3	Fastest	Km/h	%
1	H. Bailey	1/2 A Proto	O.S. FP10	25.78	27.51	40.31	25.78	139.64	103.41%
2	M. Wilson	FAI	Profi	12.94	Att		12.94	278.21	93.43%
3	K. Hunting	1/2 A Proto	O.S.FP10	28.97	29.33	39.00	28.97	124.27	92.03%
4	N. Wake	Class 5	Novarossi 21	15.22	15.10	15.23	15.10	238.41	88.94%
5	H. Bailey	Proto	Novarossi 21	32.19	29.88		29.88	193.90	80.74%
6	N. Wake	Proto	Force .21	33.62	32.01	ATT	32.01	180.99	75.37%
	N. Wake	Perky	Force 15	47.34	46.99		46.99	123.30	
	V. Marquet	Perky	Cox 15	57.83	59.71	59.76	57.83	100.18	



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Swap Meet and Social Activities

2015 Air Racing, Stunt & Combat
"Grand Prix"
December 27th - 30th 2015 over 4 days

Day	Venue	0900 - 1200	1300 - 1700
Sunday 27/12/15	CLAMF	Classic FAI T/R	Classic Stunt
Monday 28/12/15	CLAMF	F2C T/R Rd 1 & 2 F2A Speed Rd 1 & 2 Combined Speed	Vintage A T/R Swap Meet 1600-1730
Tuesday 29/12/15	CLAMF	F2A Speed Rd 3 & 4 F2C T/R Rd 3 & 4, Final Combined Speed	Vintage Combat
Wednesday 30/12/15	CLAMF	27 Goodyear T/R	Classic B T/R

FEDERATION AERONAUTIQUE INTERNATIONALE

CLAMF AIR RACING
Frankston Victoria

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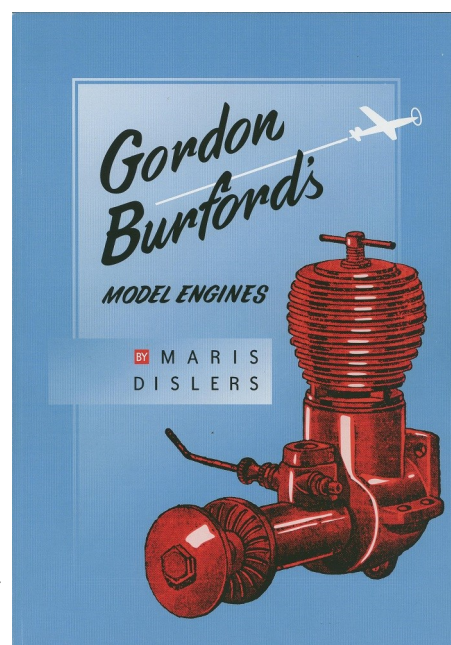
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Note:-

The extra engine tests include those for the Series 67 1.5 BR and Series 70 Schnuerle Experimental diesels previously published in ACLN, and the Taipan 40, per Adrian Duncan's website. I will make the additional Appendix available to owners of the original book edition as a PDF file for free via email.



For Sale

ANDREW'S PANS.

.21 size speed pans (by request no stock at this time), Nelson style T/R pans and a few 2cc pans. Also available a new T/R pan. Julian Reichardt has hand carved a wooden replica/pattern of the pan he and Hutton Oddy used back in the 70's. This will be suitable for Classic FAI T/R. He has also sent me a copy of their T/R plan called a FART. (I didn't name it!!) All pans \$25 in the "as cast state" and are cast in AA601 casting Alloy.



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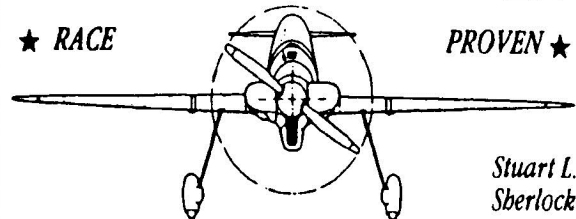
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