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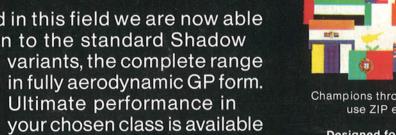


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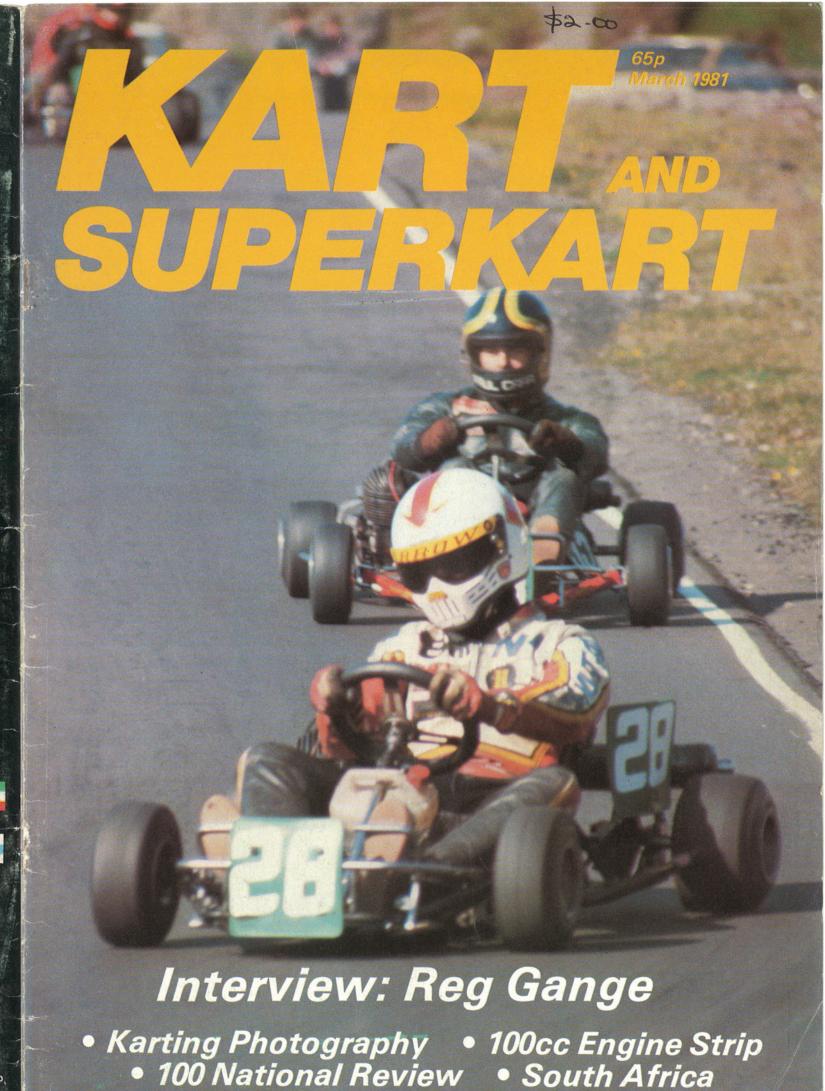
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The 135cc engine saga bumbles on, looking more and more like the Christmas present that nobody really wants!

Right from the start there has been general dislike of and objection to the idea of a new international formula. The 100cc category has become very settled, and this has encouraged manufacturers from several new countries to become involved — a very healthy state of affairs. They have become very competitive — and here lies the reason for it all. Not so many years ago, the Italian IAME factory completely dominated world karting — hardly an engine was used, never mind won with, that did not emanate from Zingonia. How different the situation has been in the last few years, with firstly the emergence of DAP as a serious contender, followed more recently by several others.

Although not on the international governing body (the CIK) himself, Mr. Grana, owner of IAME, is a very eloquent, persuasive man. It was he who initiated and pushed through this odd-sized formula (for which he just happened to have two engines already in production for the American market — a market which was fast drying up . . .). Even so, it is hard to understand how a group of supposedly intelligent people should be party to such an obvious con.

Opposition to the formula is widespread. The Irish Team Manager, Alan Johnson, initiated a document against the introduction of the class that was signed by nearly 80% of the competitors at the last World Championship. The Nordic countries combined to ask the CIK to reconsider — the subject was not even brought up at the next meeting . . .

Jesolo, in 12 weeks time, is the first scheduled event under the new formula. Most of the karting world must hope that it is a flop, and that the formula "fizzles" there and then, returning to Zingonia whence it came!

CHRIS LAMBDEN

FRONT COVER:

Former British 100 National Champion Neil Hann leads K&S Champion Paul Carr down the hill at Rowrah during the 1980 RAC Championships. Both will be leading challengers to defending Champion Mark Tredwell in 1981. Our review of the 1980 100 National year begins on page 11.

(Photo: Dennis Callingham)

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KART AND SUPERKART

Monthly

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ON SALE 1st APRIL

*These items were correct at time of going to press



K&S 1981

Despite the last minute change of date forced upon us, the 1981 K & S 100 National Championship gets under way in a few weeks. The regulations follow:

Of the eight rounds, a driver may count his best five performances in assessing his final

The points system will be as in 1981 i.e.: Heats: 1st 30, 2nd 29, 3rd 28. . . 15th 16 pts. All other finishers, 15 pts.

B Final: First four join 'A' final. 5th 20, 6th 19, 7th 18, 8th 17, 9th 16, 10th 15 pts. All other starters, 10 pts.

A Final: 1st 50, 2nd 47, 3rd 45, 4th 44... 20th 28 pts. All other starters, 25 pts.

To resolve ties after the heats, a competitor's best heat result will be used, then the second and third best. Any remaining tie will be decided on the toss of a coin.

To keep the series to regular National Class drivers, competitors who compete in any Green Man International round, will not be eligible to enter the K & S series.

The series will run strictly to RAC competition regulations, including the restricted tyre

Current K&S Champion Paul Carr begins the defence of his title at Fulbeck on March 22nd. (Photo: D. Callingham)

Championship **Date Changes**

A series of objections has forced date changes to three Championship events this year. The events affected are: Round One of the K & S series (Fulbeck), now shifted from 5th April to 22nd March; Green Man (Wombwell), shifted from 28th to 21st July; and RAC 100 International/Junior Championships (Rye House) shifted from 23rd to 2nd August.

Full K & S and Green Man dates are:

K & S (and SAM) Championship: -

Fulbeck	22nd	March
Rissington	24th	May
Clay Pigeon	14th	June
Wombwell	19th	July
Kimbolton	30th	August
Tilbury	13th	September

Green Man (and Junior) Championships

Three Sisters	19th	April
Dunkeswell	17th	May
Felton	7th	June
Wombwell	21st	June
Clay Pigeon	9th	August
Rowrah	31st	August
Temple Manor	27th	Septembe

PRIZE LIST

The prize list is still being completed, but already contains the following:

Zip 981 National chassis - courtesy Zip Kart. Cobra National chassis - courtesy Sisley Karting. Dino National chassis - courtesy A K Racing. Hewland National engine - courtesy Hewland Engineering.

Complete engine tune - courtesy (Mick) Fullerton Racing. Complete engine tune - courtesy Terry Fuller-

£100 JM goods voucher - courtesy John Mills. £100 cash - courtesy Redhill Racing.

Golden Helmet + £100 - courtesy Pudney & Sims Vinyl suit - courtesy Mistral Racing.



Letters

Dear Sir,

Camberley Kart Club:

Many of our members and entrants will be aware that we are having problems with our track at Blackbushe. We are concerned over the Dear Sir, rumours that are drifting around, and would Re Junior British Championships 1981. like to dispel them.

Our absence from the 'Blue Book' had was an oversight on our behalf.

reason for the rejection.

On investigation we decided to fight it, unsigning of an agreement which would have to travel the length of England twice. ended karting at Blackbushe for good.

yet. We have still to obtain planning permission, and locations next year. which this time should not pose much of a problem. Our next meeting is planned for

Sunday, 22nd March, 1981. A good entry would help to restore our depleted funds, and show appreciation for the tireless efforts put in by certain members of the Club Committee.

Helmet and 5 helmet bags - courtesy Startline

Premier Trophy - courtesy Wilson Racing

Mechanical brake system - courtesy CSK Pro-

This list already totals over £2,000 worth of

goods and prizes with hopefully more to come

A full announcement of the prize list will be

Entry fee £8. Entries close: Tuesday 17th

Miss T. Wilson, 77 Moor Lane, North Hykeham.

(Late entries will be accepted, but these will

Race day schedule: Scrutineering, from 8 a.m.;

Practice, 10 a.m.; First race, 11.30. Remember,

this is the first day of British Summer Time and

the clocks will have been put forward one hour.

Saturday practice is availbale (£3 members,

£5 non-members) and camping facilities Friday

Heats 8 laps, B Final 15 laps, A Final 25

Engines.

made as soon as possible.

Round One Entry Information

March and should be sent to:

Lincoln. Telephone 0522 681606.

and Saturday nights (£2 per night).

start from the back of all heats)

Don't be late!

M. F. Attwood on behalf of Camberley Kart Club

Whilst I realise there are many things to be taken into consideration when deciding on the nothing to do with our present problem. This dates and locations of such a large event as the Junior Britain British Championships, I would Our Annual planning application was sub-like to point out that the first round on May mitted for approval in November, 1980. The 2/3rd at Felton falls in the middle of the G.C.E. application was rejected at a Planning Commit- and C.S.E. examination period. Surely the RAC tee meeting in December, "the noise being could take this into consideration when fixing detrimental to the environment" being the the date as many Junior drivers are in their last year at school.

Also, as there are two rounds this year, I covering one or two doubtful arrangements would have thought that if it was to be fair for during the process. Following legal advice a everybody, there should be one round in the High Court injunction was obtained to stop the North and one in the South so that no one has

I hope that the RAC will take these points Round one to us, but the battle is not over into consideration when deciding on the dates

> Joanne Jacobs Southampton

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FULLERTON RACING OFFERS THE SPRINT K88TT FULLERTON TUNED, mainfollowing used equipment. Choice of two Birel Le Mans chassis complete with Mick Fullerton modified K80 motors used this year at K & S rounds and British Championships by Mark Tredwell. This equipment is currently the fastest available anywhere for National racing. Both chassis carefully set up with new Goodyears both K80 motors rebuilt and set up as for British Championships. Offers over £900.00 each outfit. Sirio National chassis, never raced, used 3 hours only for testing. Complete with new Komet K88 motor. Outfit includes new Goodyears and is ready to go £550.00. BM chassis complete with new Komet K88 motor, Mick Fullerton prepared engine run 2 hours only, new Goodyears. Ready to go, £500.00. Contact: Mick Fullerton, Tel: 01-749 0979.

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ENGINES

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DEAVINSON SPRINT 104, 2 BEARING and Sirio ST51. Complete with Lockheed brake system, some spares £350. Tel: Rayleigh 774469.

THIS LOT MUST GO, OWNER EMIGRATING 125 National, Zip GP, 5 meetings old, TVM Yamaha £800. 250 National, Zip Bultaco £250. Plus spares for both outfits, trailer, leathers, wets, helmet etc. Will split. No sensible offers refused. Tel: Derby 811500.

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210 ROLLING CHASSIS, BARLOTTI discs. front fairing, engine plates, straight and tidy, coded Goodyears, £95 o.n.o. Tel: Hinckley 610053 after six.

LYNX SUPERKART, YEAR OLD CHASSIS with fairing, side tank, Bridgestones, 30mm axle, excellent condition. Yamaha fitted TZ rods, DX ratios, TD3 cylinders, Del Orto's, £875 o.n.o. Tel: Borough Green (0732) 84272. Meopham (0474) 812050 (daytime).

ZIP SHADOW 80 THREE BEARING, absolutely immaculate £295. Complete rolling chassis. Tel: Swindon 812327.

WANTED 1979 GBRD TD3 PIPES. Good price

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Revolutionises kart ignition - lighter than Motoplats - rechargeable - increases performance on all Classes of engine. £120.00 fitted, plus instruction sheet

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ZIP K77, MOTOPLAT. SUIT BEGINNER. £200 o.n.o. 3 hp engine off Sisley Fun Kart, very reliable £40. Wanted: 5 hp engine for Formula 6, Phone Phillip on Medway 367375.

SUPERKART FOR SALE - ZIP Shadow, full bodywork, 250 Yamaha engine, fully tuned, Bridgestones. Spares and trailer. Offers — Tel: Hemel Hempstead 40597.

BRAND NEW BM EUROPA KART, complete less tyres £260. New BM K96/3 TT engine complete. Still in box £240. Tel: 0935 822645.

WANTED 250 NATIONAL BULTACO Mk 12 and/or suitable chassis. One needing repair not objected to. Details - Tel: Anstey 2003 Lei-

BLOW MONTESA, COMPLETELY REBUILT for next season, fairing, requires running in — £230.00 o.n.o. Tel: Belmont Autos. Burton on

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BARLOTTI 210 NATIONAL rolling chassis, drum brakes, many new parts. Good condition, ideal for newcomer £120. Large assortment new Amal Mk I carb spares, slides, floats, needles £20. Two kart trailer, good condition, tows well £100 o.n.o. Telephone Normandy (Surrey) 2582.

DAP ROLLING CHASSIS 100cc NAT./INT. all mag. parts incl. wheels also spare alloy wheels. Kart in exceptional condition, never crashed or bent. New kart cover, stand, Zip suit (med.), boots (9), sprockets, chains etc. Quick sale required so best offer buys. Tel: Orping

SCOTLAND ZIP 210 NATIONAL, good condi tion. Drums, new big end. Ideal first outfit. Ready to race £190 o.n.o. Tel: Mike Westkilbride 823686 day.

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continued . . .

the 125's. Two wins and a second in the heats were the result of fine driving by Richard Boston with Bill Longden taking the third heat. In the final however, Longden had to retire on the first lap which left Boston to storm away with the race - no-one being able to get anywhere near him. Novice Paul Grumett had an excellent race to finish a very creditable second with Brian Finn in third. The 125 final was won by Paul Bowland who was the only one to finish.

Thanks to all the officials and marshalls for their invaluable help in running this first class meeting. Entries were up in most classes, but where are all the 210's and 125's? Come on lads, shake the cobwebs off, before we lose these classes. Trophies were of a very high

Thanks to all the officials and marshalls for their invaluable help in running this first class meeting. Entries were up in most classes, but where are all the 210's and 125's? Come on lads, shake the cobwebs off, before we lose these classes. Trophies were of a very high standard, down to tenth in 100 National class. J. Marshall

Results: -

Junior National

UFO/Arrow Kerry Thorpe Zip 981/Parilla Miles Hall Simon Blessed Premier/TKM

Junior Britain

UFO/Arrow Scott Banks 1st Patrick Walsh Premier/Arrow Odin/TKM 3rd Graham Kershaw

Senior Britain

Stephen Gill UFO/Arrow 2nd Victor Vaughan Premier/Arrow Premier/Arrow David Smith 3rd

100 National

Derek Higgins Dino/DAP 1st Stephen Sykes Premier/Parilla 2nd Andrew Cursley Premier/Parilla 3rd

210 National

Barlotti/Upton Richard Boston 1st Zip/Upton 2nd Paul Grumett Barlotti/Upton Brian Finn 3rd

125 National

issue after receipt.

Paul Bowland Zip/Rotax

Rates: 10p per word (£1 minimum charge).

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42

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secondhand equipment available at - Pegasus Karting. Phone daytime - Leighton Buzzard

125 ROTAX REBUILT, new piston, rod, crankcases £450 o.n.o. Tel: 01-904 9276.

BRIAN HILLS IMMACULATE WORKS 125

Aero Panther/Rotax. Complete with side pods, nosecone, Aeroquip brake lines, Kelgate axle.

Engine rebuilt up to new spec. Spares & engin

data. Further details tel: Rochdale 42281/

Kalendar

MARCH

TILBURY (Dunlop Road)

ROWRAH (nr. Frizington, Cumbria)

CHASEWATER (Pleasure Park, Brownhills, off A5)

WOMBWELL (Dorothy Hyman Stadium, nr. Barnsley)

KIMBOLTON (10 miles s.w. of Huntingdon)

DONINGTON (Off Junction 23, M1) Long circuit meeting. All

> NUTHAMPSTEAD (11/4 miles east of Barkway, off B1368 Cambridge-Ware Road)

FULBECK (8 miles from Newark) First Round, Kart & Superkart and SAM series

> LLANDOW (Off A48, 4 miles s.w. of Cambridge)

Sell (or buy) equipment, spares, or whatever with a Mini-Ad. All Mini-Ads must be prepaid and will be inserted in the first possible

100 NATIONAL 1980 SIRIO 4 STAR KART. B.P.H. TUNED K80TT BARREL STANDARD All magnesium accessories, immaculate and complete £300. Mañx 100 TT, 50.8 bore, used complete £30. B.P.H. 27mm carb £10. German

Please send your Mini-Ad, clearly typed or printed to: Kart & Superkart (Mini-Ads), Pindar Road, Hoddesdon, Herts.

Mini Display Ads (boxed) are also available at £8 per column inch. Copy to same address

SURBITON (Worcester Park)

SHENINGTON (8 miles from Banbury, off A422 Banbury-Stratford Road)

DUNKESWELL (5 miles from Honiton Devon)

ELLOUGH (2 miles south of Beccles, Suffolk)

APRIL

SNETTERTON (nr. Norwich) Round 3, Zip Champion of Champions Superkart series, plus all long circuit classes.

SNETTERTON - Short circuit

LITTLE RISSINGTON (Air Force base nr. Stow)

FELTON (8 miles north of Morpeth, on A1)

ROWRAH (nr. Frizington, Cumbria)

CHASEWATER (Pleasure Park, Brownhills, off A5)

WOMBWELL (Dorothy Hyman Stadium, nr. Barnsley)

TILBURY (Dunlop Road)

KIMBOLTON (10 miles s.w. of Huntingdon)

CLAY PIGEON (Midway Yeovil/ Dorchester)

ELLOUGH (2 miles south of Beccles, Suffolk)

CADWELL PARK (on A153 between Horncastle and Louth). Superkart Championship round two, plus all other long circuit classes.

> 3 SISTERS (Off Junction 25, M6) Round one. Green Man and Junior Championships

> SHENINGTON (8 miles from Ban-

NUTHAMPSTEAD (11/4 miles east of Barkway, off B1368)

SURBITON (Worcester Park)

DUNKESWELL (5 miles from Honiton, Devon) Round 1, RAC 100 National Championship,

FULBECK (8 miles from Newark)

CRAIL - Team meeting.

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YAMAHA RD250 DX - TD3 MOTORS,

with Femsa ignition. Choice of two £395.00 each o.n.o. Phone Worcester 422920 after

In a Word . . .

The National Schools Karting Championships are to be held at Rye House on 11th/12th July. A.S.R's are now available from Mr. K. R. Breach. The John Warner School, Stanstead Road, Hoddesdon, Herts.

Entries definitely close on 12th June. Accommodation requests must be in by 27th March.

Derek Price, former International 100cc driver, 125 driver, and pedaller of the ubiquitous HPM "double" last year, is now to drive for the Wigan Kart Centre in the 125 class. Derek will run a Zip GP/Rotax, prepared by Wigan Kart Centre.

Also driving a 125 for Wigan Kart Centre will be Chas. Walker, while Tony Draper will represent them in 250 National, with YZ Yama-

Mark 1 Racing now offer a 125 Rotax gear linkage assembly for £15, with all rods, levers, spacers, bushes etc.

Northumbrian Kart Club's new Competition Secretary is Mrs L. Lynch, 12 Portland Gardens, Cramlington, Northumberland NE23 9QD.

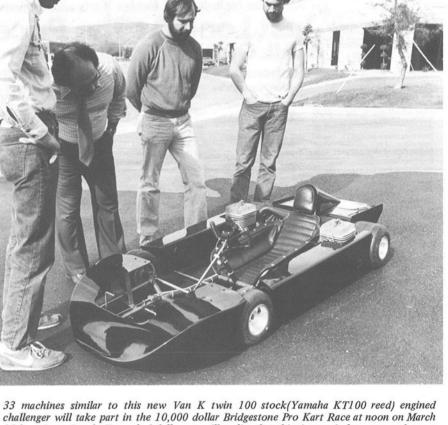
Bromsgrove Kart Club officials are now: Club Secretary: Miss S. Tomkins, 88 Hollymount, Tunnel Hill, Worcester. Tel: Worcester 22752. Membership Secretary: Mr. Paul Ogden, 17 Elmgrove Road, Hucclecote, Gloucester. Tel: Gloucester 60534. Comp. Secretary: Mrs S. T. Witts, 'Oakley', Holloway Hill, Pershore, Worcestershire. Tel: Pershore 2512 (before 9 p.m. please!)

Wombwell have three National permit events this year and wish to advise entry information: 9/10 May - Round 3 RAC 100 National Champs, Practice from 11.00 a.m. 9th May £5. Entry Fee: £12. Entries close: Friday 24th April 20/21 June - Round 4 Green Man, Practice from 11.00 a.m., 20th June £5. Entry Fee: £10. Entries close: Tuesday 16th June.

18/19 July - Round 4 K & S and SAM series. Practice from 11.00 a.m., 18th July £5. Entry Fee: £10. Entries close: Tuesday 14th July. Please send s.a.e. with all entries.

Retford 100 National campaigner Nigel Edwards recently travelled to Ahmadi with John and Roger Mills, and came home with a solid gold-handled trophy and the Middle East title. Roger finished second, completing a worthwhile trip for the DAP JM team. We hope for full coverage next month.

SO YOU WENT TESTING AT CADWELL,



15th at Long Beach. Formula 1 followers will realise that this time and place means the race takes place only one hour before the USA Grand Prix West - in front of 175,000 people! Our American counterparts sure have their publicity machine going well!

The 200 Stock class is catching on in the States, even though the two 100cc engines manage only 40 bhp between them. Imagine a field of Superkarts, with over 60 bhp on tap!

RAC News

is now available

Jones and A. Temple.

Committee meetings are set down for March

STOP PRESS **CADWELL PARK SUPERKART**

The full list of 1981 Kart Committee members 1st

The Committee will be Chaired by Mr. M. Southcombe, with Mr. A. Hesketh as Vice-Chairman. The balance of the Committee is made up of Messrs, A. Burgess, R. Deavin, C. Fenwick, A. Foster, K. Guest, M. Hines, D. Hockey, L.

18th, May 20th, June 17th, August 12th (the 'Open Day"), October 21st and December 2nd. Anyone wishing to have items on the agenda for these meetings must submit these at least 2 weeks prior to these dates - longer if possible.

.. IT WENT LIKEA ROCKET-I PASSED

A XATOR ASIFIT WAS STANDING STILL

SEASON OPENER Dave Buttigieg Hermetite Zip/Yamaha

Nigel Smith Stocksigns Zip/Yamaha 3rd Zip/Yamaha John Ball

First two home are watercooled. Hines was pole with Rotax power, but goes off at first corner.

Class wins:

125 Nat. Roy Wooldridge

Zip/Merlin Rotax 210 Nat. Bill Longden Barlotti/ Villiers

250 Nat. Eddie Cortiio

Lvnx/Honda

BY BARRY FOLEY









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BRITAIN, DEAVINSON/MANX CHASSIS, 4 meetings only. Engine rebuilt and fitted new tuned liner. As new condition £350 o.n.o. Tel:

ZIP/MANX, Class 1, 50.9 bore, Goodyears.

Good clean outfit £200 o.n.o. Leicester. Sap-

needs liner £10. Tel: 0474 873336.

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ALUMINIUM KART	Half Crankshaft (Sprocket	Carb. Manifold Tillotson	Tillotson filter£1.25	Inner tube valve key 80p
COMPONENTS Front wheel boss, 15mm bg . £4.50	Side) L90£34.50 Half Crankshaft (Mag.	TG 14L£9.20 Crankshaft complete	Engine finger guard £1.10 Comb. side/engine guard £1.75	Engine tuning degree wheels £16.00
Front wheel boss, %" bg £6.00 Rear hub 25mm or 1"	Side) 3P£25.30	SS20, TT22£79.20	Steering bush 5/8" & 3/4" £1.50	NGK Spark Plug
Rear hub 25mm or 1" die cast£3.80	Half Crankshaft (Mag. Side) 99TT £25.30	Crankshaft complete TT23 £85.80		resistor cover
Rear hub 30mm die cast £4.50	Half Crankshaft (Mag	Crankshaft complete	PLUGS	Petrol Filters £1.25
Engine mount 15° £7.50 Engine mount, sliding £10.00	Side) L90£32.20 Crank Pin£2.66	GP 15L£77.00 Crankshaft Stuffers£2.00	Motocraft AG403/603 £0.95 NFK B8EV/B9EV £1.50	Loctite
Engine mount bottom	Cage & Rollers (Steel/	Crankshaft Half	Plug cap rubber £0.60	Stub Axle Spacers20p
clamps, each £1.25	Silver Plated) £5.00	(Sprocket) SS20,		Precision self-lubricating
Carb. spacer with studs £1.20 Disc carrier 25mm or 1" £3.50	Connecting Rod Bare £15.18 Valve Locator £5.75	TT22/23£36.30 Crankshaft Half	RACEWEAR & HELMETS	30mm bearing£5.00 Yamaha Red Arrow RC100A
Disc carrier 30mm £3.50 Sprocket carrier 25mm	Rotary Valve £2.88	(Mag. Side) SS20	PVC racing suit £25.00	Kart Model £5.00 Heavy Duty PJI Chain
or 1" die cast £4.00	Sprocket £4.49 Tillotson Carburettor	TT2Ž/23£36.30 Crankshaft copper	Leather racing suit £80.00 Leather gloves £8.00	Lube (large)£2.50
Sprocket carrier 30mm£4.00	(HL 317A) £10.00 Regina Chain	rivets£0.50	Protective wet suit £15.00	210 Electronic Motoplat Rev Counter with
Alu finger guard univ£2.00 30mm bearing housing 1 pc . £1.90	(Standard)£6.00	Crankshaft pin £2.89 Big End Cage/	Racing boots £12.50 Simpson Star Wars helmet	coil£65.00
AXLES	TKM 210 Pistons NEW TYPE £12.00	Rollers (Super) £5.00 Big End Washer,	Bell Star 2 helmet £75.00	Class I Electronic Motoplat Rev Counter with
25mm or 1" HT 1m × 6m £9.00 30mm axle solid RT	IM/IS chain	all types£0.50	Bell visor £2.50	coil £65.00
1m×6mm£10.00	(Standard)£5.00 Dial Gauge &	Con Rod TG14, SS20, TT22 £15.00	WHEELS & ACCESSORIES Spun ally front 100cc and Class 4	Class I Chrome Exhaust Ends£5.50
30mm axle hollow 1m × 6mm £15.00	Extension £12.00	Con Rod, TT23, super,	5×2£2.00	Bottle Tank Straps£1.75
Axle key per 1 ft £0.75	Dartford Karting T-Shirts. All sizes £1.50	super £22.00 Small End Rollers £1.25	5×2½ £2.20 5×3 £2.50	Con Rods; Komet 88, 80 & 77; Parilla TG14,
BEARINGS	30mm Axle Bearings		Spun ally rear 100cc and Class 4	SS20, TT22, TT23 £16.00
Axle bearing 25mm or 1" With 3 holes fixing plate £2.30	and Accessories in stock NOW.	ZIP DIE CAST ALLOY WHEELS	5×2£2.00 5×2½£2.20	Airheart Brake Pads £5.00 Airheart Caliper £18.00
Axle baring bare 30mm £2.50 Hub bearing 15 or 17mm £1.25	Triflon bearing & chain	Complete set for 100cc karts with	5×3£2.50	Airheart Cylinder £16.00
Hub bearing 34"£1.50 Engine main bearing 6204	lubricant £2.25 O.K.O. tyre sealant £2.75	13-15 or 17mm bearings in front wheels. Available all widths to suit	5×4£2.75 5×5£3.50	Genuine Bell Visors (smoked or clear) £3.00
Engine main bearing 6204 C3 £1.50	Reynolds link extractor £9.00	requirements. With 'O' rings and	Tubeless O rings £0.25	Bubble Visors (clear
Engine main bearing 6204	Whirly Visor£17.50 DAP Rods£9.00	valves. Less rear bosses £30.00	Tubeless valves, short £0.35 Nova 5" wheel per ½	smoke green and blue
C4, nylon half cage £4.00 Engine main bearing 6204	210 Motoplats + coil £40.00	As above less 'O'	front£3.00	Leather stick-on letters30p
TB P63 fibre £6.00	Hydraulic Brakes (Less disc.)KP £49.00	rings and valves £27.50 Complete set for 125cc, 210cc,	Nova 5" wheel per ½ narrow rear £3.00	Degree wheel £16.00 Trolley wheels £2.25
Super big end cage/rollers £4.80 Rose end 8mm female std £1.50	Dunlops 049 in stock	250cc, without rear or front	Nova 5" wheel per 1/2	Equipment bag
Super Rose end 8mm female	New Compound Brigestone £80.00	bosses. With 'O' rings and valves £27.00	wide rear : £3.50 Steering wheel 12"	Tank strap £1.50
RH and LH thread £2.00 Rose end 8mm male £1.50	CARBS AND ACCESSORIES	As above less 'O' rings	leather £8.50	LUBRICANTS
Small end rollers (25) £0.80	Tillotson std. HL317A£10.00 Tillotson body, std £6.20	and valves £24.50 Special tyre securing kit	SPROCKETS	PJI chain lube£2.50
BRACKETS	Tillotson body bored 25mm . £8.80	for Superkarts,	52-80T sprocket 35pi £3.00 70-94T sprocket 219pi £3.00	Triflon, large £4.20 EP90 £0.80
Chain guard bracket univ £1.25 Coil brackets univ £1.50	Tilly bored and tuned 25mm £16.00 Tilly bored and tuned 27mm £18.00	set of 4£15.00 'O' rings for above25p	8/9/101 35p eng. sprocket £3.50	Bardahl oil per quart£1.30
Throttle bracket univ £175	Tillotson spares:	Valves for above	10/11T engine sprocket 219 pitch £3.50	Castrol R30/R40 per litre£2.00 Shell R per litre£2.50
BRAKING SYSTEMS	Top Diaphragm £0.25 Bottom diaphragm £1.40	(short or long)50p		Official types into
KP hydraulic system £46.00 less disc	High speed screw£1.20	GENERAL COMPONENTS	TYRES Front tube 350 × 5 £2.75	MISCELLANEOUS
KP pads, per pair £4.50	Low speed screw £0.50 Inlet assembly £1.80	Rotary Valve Cover	Rear tube 600 × 5 £3.75	Solderless barrel nipple £0.10
Zip pads, per pair £4.00 Airheart pads, per pair £4.00	Nozzle check valve £1.35	Sloping K88 K77£7.50	German Goodyear tyres: 11-350 × 5 slick £10.00	Outer cable per ft £0.15 Inner cable per length £0.60
Brake pipe KP per ft £0.10	Throttle shaft £3.10 Repair kit £4.20	Class 1 Axle Sprocket £3.00 Kart Boots £10.00	11-350 × 5 slick £10.00 11-450 × 5 slick RAC £10.50	Petrol tap £1.50
A/heart repair kit m/cyl £2.80 Brake disc cast iron £8.50	Carb. nylon protector strip £0.30	Hydraulic Brakes (Less discs.) KP £49.00	11-600 × 5 slick CODED £11.50	Petrol cap £2.00 Jubilee clip, all sizes £0.25
Brake disc steel £7.50	CHAIN Regina BC std. 35p per 1m £5.00	GOODYEAR RAIN TYRES	Carlisle slick tyres:	Cable adjuster £0.20
T.K.M. ENGINE SPARES Cylinder Complete 3P £64.70	Regina KBC super 35p per m £6.00	11-3.50×5 £13.00 11-4.50×5 RAC £14.00	11-350 × 5 £8.50 11-450 × 5 RAC £8.70	Hermetite instant gasket£1.50 Hermetite heat paint£1.20
Cylinder Complete	Link extractor, Renold £7.80 Rivet link 35 pitch £0.10	11-4.50×5 HAC £14.00 11-6.00×5 CODED £14.50	11-600 × 5 CODED£10.50	Hermetite heat paint £1.20 Numbers, black, white 0-9 £0.09 citizen stop-watch,
99TT£79.92 Cylinder Complete	DID 219 HT chain £6.00	EXHAUSTS	Carlisle wet tyres:	electronic £22.00 Kart model kit, Yamaha £5.00
L90£107.99	DID rivet link £0.10	Vevey exhaust £11.00	11-350 × 5 £9.50 11-450 × 5 £10.20	Kart model kit, Yamaha£5.00 Petrol filter in-line £1.00
Iron Liner 3P £35.89 Iron Liner 99TT £40.39	ELECTRON Mag. engine mount £15.00	Flex per 8" length£1.80	11-600×5£11.80	Uni. wheel balancer £22.00
Iron Liner L90 £52.23	Mag. sprocket carrier 25mm	FIBRE GLASS	Bridgestone tyres:	
Head 3P£34.09 Head 99TT£34.09	1" or 30mm	Seat, wrapround £10.00	Slick 450 × YBE CIK£18.00	PLASTICS
Head L90£39.10		Floor tank 100cc£10.50		Number plates, 100cc all colours £0.35
Piston Complete£11.50 Piston Bare£5.80	bearing£7.50	GAUGES	Slick 750 × 5 YBE CK £25.00 Wet 450 × 5 YBF CIK £22.00	Number plates, 250cc £0.50
Ring Set (SUPER)£4.00	Mag. front wheel per ½ £6.00 Mag. rear wheel per ½ £7.00	Carb. pressure gauge £12.50 Masta tyre gauge £10.00		Chain guard strip 100cc £0.25
Silencer £14.00 Crankcase Complete	Wag. rear wheel per 72	Tyre temperature gauge £70.00	Before you buy a new Na	stional angine compare
3P£58.44	PARILLA SPARES	IGNITIONS	our price of a TKM FF	
Crankcase Complete 99TT £72.36	Cylinder 3 port SS20	Motoplat, Class 1 £35.00	our price of a TKW FF	13 COAF OO L VAT
Crankcase Complete L90£88.27	TG14£59.00 Cylinder complete	Motoplat coil £11.50 Dial gauge £7.50		
Main Bearing (SKF) £2.25	TT22/23£93.00	Extension£2.00	Why not try our advance	d new wet tyre pattern
Main Bearing (FAG Riveted Fibre) £6.00	Iron Liner 3 port, TG14, SS20 £30.80	KART COVER AND TOOLS	AT £48.00 SET INCI	VAT + POSTAGE
Valve Cover (Sloping)	Iron Liner TT22/23£42.90	Kart cover 100cc £12.00	DART NATIONAL comple	to with whoole and tyres
3P£10.43 Valve Cover (Sloping)	Cylinder Head £36.30 Piston 3 port £5.00	Seat cover, universal £8.50 Kart stand, unsprayed £10.50	DANT MATTOMAL COMPLE	tyres of your choice)
99TT £10.43	Piston TT£5.80	4. 5. 6. 8mm T bar Allen	DART RRITAIN complete w	ith hydraulic brake, wheels
Valve Cover (Sloping) L90£12.72	Ring Set Super£4.00 Gudgeon Pin£1.59	key£1.50 10mm T bar socket£3.00	COTE 00 : 1/	AT (slick or wet tyres)
Crankcase Complete	Gudgeon Pin Light£2.53	13mm T bar socket £5.00		
3P£75.90 Crankcase Complete	Exhaust Flex £2.25	Sprocket puller £5.20 Motoplat puller £2.50		n. Early closing Wed 1 p.m.
99TT £82.23		Motoplat holder £1.75	LATE NIGHT is FRIDAY N Phone your COD orders by	octation Ram & Com.
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CLUB SCENE

continued . .

National with Harry McAuley finishing in largest grid of the day with eighteen karts be- easy win in the first race, when engine problems second place. 100 National proved to be an ginning the first race. First man home at the put him out of the day's racing. exciting race with Kenny Fitzpatrick taking the end of the day was Trevor McAuley followed honours followed by Alan Vance who had his by Forde Fitzsimmons. Third was Terry Wilkin-teresting it was to see Johnny Cupples, who is first taste of senior racing. Third place went to Ian Graham.

racing with Dessie Graham pipping his rival

Derek Taylor, to the line. Ballymena flyer christened it with a win. Paul Sambrook was

210 National served up some very exciting the day and what an impressive sight it was to Johnny the very best of luck for the 1981 see so many of these Superkarts contesting. season. R.J. Elliot, turning out on his new machine,

Dessie Robb sealed his first position in 250 the second man over the line with ex motor National with three tremendous drives, winning cyclist Courtney Junk in third place. Jim all of them. Brian Kennedy was second and Flemming took fourth place. Out of luck driver to enjoy a first position, with a win in Junior Paul De Hann third. The 125 National had the Dessie Graham who seemed to be coasting to an

I could not finish without saying how inthe Northern Ireland 'Driver of the Year'. The 250 International was the final race of competing in the 250 International, May I wish

Wombwel

February 8th 1981 at Wombwell, was a surprisingly mild day, if a little damp underfoot, but a heavy drizzle had set in by the time the finals were run which sent everyone diving for

Junior National

Out of a small field of only seven drivers, Simon Howarth won two of his three heats, with Miles Hall winning the other. In the final there were only five starters and Kerry Thorpe was soon into the lead and maintained this position throughout the race with Hall finishing second and Simon Blessed third.

Junior Britain

A good entry for Junior Britain saw Jason Plato win all three heats in fine style, while Scott Banks also drove well. All was set for a cracking final when Jason Plato, who must qualify for the hard luck story of the meeting, packed up on the rolling lap, restarting a long way behind the others and then spinning out at the hairpin, obviously trying too hard. Banks took the lead followed by Patrick Walsh and Neil Richardson. The latter retired late in the race and his third place was taken by Graham Kershaw. Banks and Walsh held their own private duel with Banks just holding first place on the line, Walsh and Kershaw following.

Senior Britain

Heat wins for Ray Chadderton, Victor Vaughan and Andrew Wood, with Chris Burns and Stephen Gill also having good drives. In the final Gill went into an immediate lead followed by Eric Smith and Vaughan who were left to battle it out for second place. David Smith took third place when Eric Smith retired leaving Gill to coast home in first position after an excellent drive in slippery conditions followed by Vaughan and David Smith.

100 National

Stephen Sykes was certainly the man to note, winning all his three heats in fine style, Lew Marsden and young Derek Higgins (only recently up-graded from the Junior ranks) also doing well. The final was run in the wet with Sykes straight into the lead followed by Higgins, Marsden and Tony Bell being dropped after spinning off the track. Andrew Cursley went into third leaving Pete Elliott and Nicky Fletcher battling for fourth. On lap nine Higgins took over the lead from Sykes and managed to hold him off to take the chequered flag. Third place went to Cursley with Karl Murphy coming from nowhere to take fourth, Pete Elliott 5th and Nicky Fletcher 6th. A thoroughly entertaining race in difficult conditions.

210 and 125 National

These races were run together as there were only three entries (and all Novices at that!) for D. Croft)







Top: start of the 100 National final. Middle: Chris Burns (9) leads Dave Smith (69) and Steve Gill (10) in 100 Britain. Bottom: trouble for Bill Longden (56) at the start of the 210 final (Photos:

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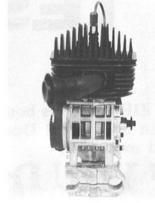
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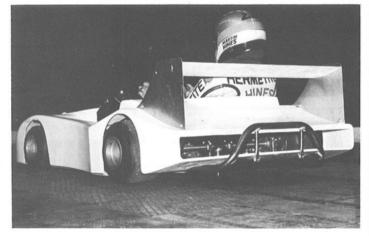
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Andy Stapley took the fast-growing Senior Britain event (top), while Junior National went to Gary Moynihan (bottom) (Photos: Dennis Callingham)

continued...

for a bit of adhesion. Heat two, with everyone now on wets, was rather more orderly, Gary Prior leading them in this time with Chris Callingham second. A re-run of the third heat was required when it was found that a mistake had been made in the grid, and after a delay while two stray dogs were captured, John Herbert led the way followed by Dean Chandler. Mark Tredwell's spectacular departure from heat four in a pit bend shunt made a change from his usual flawless drives, while up front Gary Prior took his second win of the day from Gary Till.

A Final: With Steve Tillett, Tim Harvey, Bob Newson and Ian Palmer making it through from the B final, the grid lined up with the two Garys, Prior and Till on the front row. Prior's usual flying start put him safely away with nothing to worry about beyond keeping his motor going. Back in the pack though, there was plenty of excitement brought to a head

when Mick Beauchamp catapulted off the track and although soon on his feet was deemed to require an ambulance ride. With Gary Prior still well clear, the order was rearranged in the minor places when John Aitkenhead and John Herbert both rounded Gary Till, and then changed places to finish with John Herbert in second place and John Aitkenhead in third.

With the last round of the series providing a great climax, I think we can say that our sponsors were given a good run for their money. I hope that they enjoyed their first involvement in our sport and that at this time next year I can once again thank them for their most welcome support.

Results: -

3rd

B. Baxter

Jamie Chitty

00	Britain	
st	Andrew Stapley	Kestrel/BPH Arrow
nd	David Germaine	Kestrel/BPH Arrow

Remrod/MW Arrow

Colt/TKM

Junior Britain Lane/Arrow Steve Brogan 1st Mark Handyside Lane/Arrow 2nd

Junior National

Gary Moynihan Dart/TKM Nick Crabtree ART 80/Arrow David Chitty Birel/Komet

National Novice

Ouinton Searle T. Searle J. Thompson

Cobra/Parilla Mamba/K88 Cobra/K80

210 National

Colin Ling Trevor Gowers Derek Randall

Barlotti/Upton Star Gemini/Gowers 9F Barlotti/DGR Upton

250 National

Frank Roberts Keith Allen

Zip/TVM Yamaha Zip/BS Honda

250 International

P. Wall

Barlotti/Yamaha

125 National

Vaughan McNealy Zip/TVM Yamaha

100 National

Gary Prior John Herbert

Cobra/Arrow Cobra '81/BPH Arrow John Aitkenhead Dart/SS20

Overall Series Results

100 National

1st Gary Prior Gary Till 2nd 3rd John Herbert

Junior Britain

Mark Handyside Kevin Keith Steve Dart

210 National

1st Jim Paffett



Reader Martin Aspland's reaction to Drew Liddle's water cooling conversion article (last month) ...

IRELAND

Boxing Day Racing at Ballymena Showgrounds

Wintry conditions at Ballymena Showgrounds did not prevent karters turning out in large numbers to serve up some very good racing. The Mid Antrim Kart Club promoted the race and the day's activities began with Junior Britain. David Allen stole the show, closely followed by Frank Stewart and young Desmond Graham. Hugh Dunn was the next driver

INTERVIEW



Reg Gange won a classic World Cup victory in 1973, but his defence in 1974 (above) ended, as he puts it, "upside down!"

Reggie

Talk to any of Superkarting's leading drivers, and you will find that they all rate him, even fear him. Observers on the peaceful side of the Armco will assure you that his style is fiercesome, too. For sure he's talented, and without doubt he's a fighter. Yet over the last couple of seasons, the compliments have but flattered to deceive. Reg Gange, shrouding his competitive aggression in a quiet modesty, agreed . . .

Phillip Bingham reports

Not so long ago, Superkarting looked set for a boom. The racing had suddenly become colourful, the racers' attitudes professional, and even the hardened motor racing purists were beginning to recognise the sport. Leading Superkart drivers even became recognised names amongst the motor racing

Most colourful and professional of them all, predictably, was Martin Hines' works Zip Equipe. Included in that team at the time of the boom was one Reg Gange. He had been a visitor to the winner's circle for many years, particularly in the 210cc Villiers class, but now he looked ready for that final push to the karting Big Time. Alongside team leader Hines and Dave Buttigieg, Gange had established himself as one of the sport's envied Big Three. What was more, the equipment was at his disposal to let him keep it that way.

But the down-to-earth Londoner didn't want that. The quick and highly respected motor mechanic astounded his rivals by shunning the bright works colours. Muttering some vague explanations about "personal reasons", he returned to the less affluent roots from which he had sprung. A strange, possibly even stupid decision in many people's eyes, but Gange had - and still has - the courage of his convictions.

"Actually, even the works Zip team wasn't all that professional then," he points out, "because it was the first year as a big works team and there were lessons to be learnt. But yes, it was the best team. Butty and myself were basically recruited by Martin, and we looked after ourselves, just asking for the bits and pieces we needed. But I left for simple personal reasons because of my friendship with Jack Barlow. Quite simply, I just wanted to carry on racing with him."

Barlow, of course, is the man behind the Barlotti marque, and it was to this that Gange returned. "Jack was always the person that helped me out; the person I went to when I couldn't find a chassis to run," explains Gange, without actually stating in black and white that his surprising team move was essentially one of selfless gratitude.

With Barlow "a good friend of the family", and Reg Gange Snr. "not very keen about me being in the Zip team because he likes to be an individual, and saw Superkarting in the old fashioned way rather than wanting the new glamour bit", Gange Jnr. had shunned the works life once and for all. "The only reason I'll be running a kart other than a Barlotti this year is because I've got the sponsorship to do so," he points

That well-meaning decision was made five years ago. Since. as the hardened realists predicted, his track record has suffered. Reg reluctantly admits that "obviously the Barlotti is inferior to the Zip on long circuits," understating magnificently that "it hops a little!", but he prefers to blame himself for the last year's drought. Results have been all too rare, and Gange dismisses it casually as "complacency; I haven't been putting enough into it, to be honest."

Yet that is as difficult to believe as his own frustrations must be hard to swallow. A flick back through the history books reveals a track record of Mr. Gange's that has been positively sparkling. At just nine he was circulating the Surbiton track, "just messing around and learning," he laughs, and by eleven he was racing in 100's. Yes, that's right, eleven! Laughing with positive delight, he explains, "I started racing illegally, with a forged birth certificate!"

From there on, Gange Jnr. and success were synonymous. Numerous convincing 210cc Villiers titles fell his way, including several British Championships, and in 1973 he took a storming, classic victory at the prestigious World Cup. Eleven years after starting out in racing, Reg Gange Jnr. was now indisputably recognised.

INTERVIEW

continued . . .

That World Cup charge is remembered as one of the most devastating ever seen at the tight Morecambe circuit, and a green pennant bearing the legendary 'O' stares proudly out of a frame on the winner's dining room wall. Ask him to talk about it, however, and Reg is characteristically self-effacing. Told that the win was spectacular, he pauses before laughing "so they say! I suppose it was quite good, from the middle of the grid, yeah. The best part was that it was a bit like a Fairy Tale, because I blew my only engine and had to borrow one for the final. I wasn't too keen to borrow one, but somebody else talked me into it and actually fitted it, and luckily it all clicked together."

Over recent years, alas, that "clicking together" of man and machine has been conspicuously infrequent. Few would dispute that the talent, indeed the traditional fight-all-the-way aggression, are still there, but success has not become any easier as the truly professional teams continually grow evermore professional.

"I'm quite happy where I am," says Reg, "but I do realise that all the time we have less and less chance of beating the works teams. Do you know, I even pulled into the pits and gave up at Cadwell not so long ago because I got fed up with flogging a dead horse!! Now that's not the approach I used to have. . ."

Indeed it's not, and although he really is reluctant to complain about his sport, Reg confesses that "leaving the works team was silly in some ways - but a lot of the reason I haven't been winning is my own fault."

"You know, there's always been team rivalry at Zips, but perhaps people just don't realise how lucky they are there. There were times when Dave and I accused Martin of not getting the proper equipment, and one thing and another. I personally felt that I should get exactly the same as Martin, when I was in the team. But looking back now, and listening to the comments of other drivers who have been in the team since, I think we're all wrong. Martin is team leader, and so Number One driver, and so it's only natural that he should get the best. Put yourself in his position: anybody who says they wouldn't give themselves the best is a bloody liar! Thinking of it now, second best to him is better than anything else." Chuckling almost wickedly he adds, "I think Calvin (Fish) and Paul (Elmore) will find that out!'

This time last year, it seemed as if Gange might at last be rescued from the non-works wilderness, and justice at last be given to his talents. Amidst a black and orange fanfare, two beautiful Dinos were wheeled out of the back of a truck that proclaimed itself belonging to Tony Smith Racing with Team Gola. It looked good but it didn't last.

A young Reg (foreground) and "the old man" (94) at Camberley in 1963



Reg - who admits "I did once try to get back into the works Zip team!" - found himself a privateer once more by the middle of the 1980 season.

"I only heard the rumours behind it all like everybody else," Reg smiles wryly, "but basically Tony Smith ran into financial problems, Gola heard of it, and pulled out. When we went to the demonstration at Le Mans, John Ball and I realised that things weren't quite right, and when we got back to England it all folded up."

The deal had been for Ball - who Reg sees as "very quick and under-rated" - and Gange to run Dinos with Smith's neat interpretation of the fibreglass ground effects fad, with full

"All we had to do was arrive and drive, which seemed too good to be true! To be fair to Tony, he upheld that arrangement right to the time that it fell apart."

Yet despite all this, the Londoner remains surprisingly single-minded about Superkarting. True to his record of team allegiances, he is also confidently individual. He doesn't believe that Superkarting is quite yet ripe for massive public exposure: "What's 10,000 people at Silverstone? The same as a Formula Three meeting, maybe. But I once went to see a Formula Three race and it wasn't worth the effort."

He does think, however, that "the faster, the better. Yes, there are arguments for keeping the costs of 250's down, but I believe karting's got to a point now where you've got to let the Superkart class go on its own. Make or break, one way or the other. If it makes, say perhaps alongside bikes, all well and good. If it breaks, well let's all go back to 125's or something, and enjoy it for what it is."

Surprising words for one whose talents have been so obscured on occasions by equipment limitations. Perhaps it's because, rightly or wrongly, Reg genuinely believes his recent mediocrity has simply been his fault. In one breath he'll quip "if I had to make do with second-rate motors and so on like some of these guys do, I'd just give up"; in the next, "yeah, maybe I could have won more often if I'd stayed with a big team."

Maybe Gange really doesn't take his racing quite seriously enough anymore. "I think that, since I've left the Zip team, karting has 'grown-up', if that's the word. Now, you've got to put a lot more time and effort in, and I haven't. I've been complacent, partly because of my business demands. But now hopefully we've got our business set up in such a way that I can put more time into karting."

1971 200cc Villiers British Champion.



CLUB SCENE

Junior National

Brian Ewing 1st Mandy Rowe 2nd

3rd Lindsay Dalkin

100 Britain

Richard Mills 1st

100 National

1st Ian Williams Brian Parias 3rd Mike Ballantyne

100 International

1st Roy Dickson 2nd Nigel Davison

125 National

Brian Smith 1st

250 National

1st Duncan Pearcy

250 International

1st Robert Johnston

210 National

Bill Cole 1st

Frazer Barber Keith Ferguson

Novice Award (Jun. Nat.)

Chris Williamson

Tilbury

BBN Products Winter Series Final Round - Tilbury February 8th

Another lucky break with a dry and warm (for February) day, encouraged the competitors to arrive early for the last and double points meeting of our Winter Series.

100 Britain

for the final and a flying start soon put him a fast finishing Trevor Gowers.

clear of the opposition led by David Germaine. A possible challenge from Tony Cruttenden came to nought when he was involved in a tangle with Gerrard Cox. B. Baxter therefore stayed in third place as they crossed the line.

National Novice

More consistency here as Quinton and T. Searle took first and second place in both heats and the final, J. Thompson taking third.

210 National

Gerrard Cox became the first winner of the day All the old favourites present in this group as with an untroubled drive from the front. Andrew heat one gave a win to Derek Randall in front although he had a flag to flag win, he was pressed Stapley after coming through from the back of Colin Ling and Jim Paffett, but the usual was second. Tony Cruttenden made up for a order was restored in heat two with Jim and 100 National non finish in heat one by leading heat two all Colin leading the way from M. Austin. Jim's A brief shower just as heat one went out, gave

125/250 Nat./250 Int.

With the colourful fairings and Frank Robert's and Vaughan McNealy's new silver leathers brightening the scene, the usual confusion over who was in what class didn't seem to matter, but our efficient lan scorers managed to sort it all out and award wins to the aforementioned Frank Roberts 250 Nat., Vaughan McNealy 125 and P. Wall 250 International.

Junior Britain

Little fellows with big hearts seem to abound in this class, Mark Handyside being a prime example. A win from Martin Prior in heat one was eclipsed in heat two when he came through from the back to take second place behind Jamie Chitty. This was good enough to give him pole position for the final alongside Martin Prior who made the better start to lead from Mark and Steve Brogan. A tense few laps followed as all three circulated together and just as it seemed that Martin had done enough to get clear, his motor seized to put an end to a magnificent drive. At about the same time, Steve managed to pass Mark and they finished in that order with Jamie Chitty catching up in third place.

Junior National

Gary Moynihan's day without a doubt. A first place in heat one and a second in heat two, set the scene for a great drive in the final, when all the way by Nick Crabtree.

the way from David Germaine. Andrew Stap- luck ran out for the final as his engine refused Mark Tredwell's delicate touch the chance to ley's consistency had earned him pole position to start, leaving Colin to take the honours from take a win from the other drivers vainly looking



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CLUB SCENE

continued . . .

OSEL CHAMPIONSHIP WINNERS - Overall 100 NATIONAL Nigel Wigg **Boyd Barrington** 125 NATIONAL Trevor Woodhouse 100 NATIONAL

Classes

JUNIORS 100 NATIONAL 125 NATIONAL 210 NATIONAL Gary Beaumont Nigel Wigg **Boyd Barrington** Chris Prue

BEST NOVICE Chris Prue **ENDEVOUR TROPHY** Alex Cable

Andrew Hale

Felton

February 1st

The Northumbrian Club opened its '81 promeeting at all as only days before, the track had been covered in a deep layer of snow. Nevertheless, in spite of the cold, we can report that conditions remained dry and provided for some very good racing. In a pre-race briefing, RAC Steward Mr. Jack Angus offered very good advice to certain new Club Members, who in their desire to participate in the day's racing, had were left in little doubt in respect of future race take over from Brian Parias and Ian Davison meetings if these were not seen to. Our thanks to Mr. Angus in this matter.

Entries were slightly down on normal but this may have been due in part to the uncertainty of the weather and the fact that a good few drivers were present in 'civies' with the poor excuse that they had not completed their winter rebuild! However, whilst down in number we lacked nothing in quality and were very pleased to have visitors from as far afield as London and Stranraer. Nice to see you lads, be sure you come back.

The intention to make good at the first meeting of the season was more than apparent from the start of practice. Indeed Clerk of the Course, Bill Brewis, called in all drivers, pushers and mechanics alike to issue severe warnings to steady up, following which, the racing got under way in earnest.

Sept. 6th

Oct

An immaculate performance by young Jason

home by David Hillcroft who got it together son. just when it mattered.

Junior National

Again this class was very closely contested. First heat saw three different leaders before Simon Blessed got in front of Mandy Rowe who in turn led Brian Ewing. The second and third heats saw Brian stamp his authority on the event to win both then follow on with a win in the final in front of Mandy and Lind-

100 International

Alas very poorly supported. Roy Dickson and Nigel Davison held first and second berths through the heats and final. Inter drivers come back soon!

100 National

A grid of 25 drivers provided the spectators with the excitement they were waiting for. The gramme in the face of a biting cold wind and cold track was proving very tricky and drivers an angry sky. Indeed we were lucky to have a were obliged to concentrate every inch of the way. In the first heat, Brian Parias and Mike Ballantyne set the pace, but on the last lap, Mike was in trouble and first George Turner then Ian Williams got past him. Ian had in fact pushed his way through from 13th place on the first lap. The second heat again saw Ian leave Junior Britain himself with a lot of work. For the first two laps. Paul Browning led from George Price. overlooked certain licence procedures. They Then George expired and Ian moved through to

Plato who took every heat and then proceeded while Paul dropped back with problems. The to dominate the final. Patrick Walsh and David third heat was Williams all the way, at first Kirk just about shared spoils in the heats but followed by Gordon Wilson who hit problems in the final Patrick claimed second spot followed on the fifth lap, giving way to Parias then Davi-

> In the final, Williams made no mistake and again led from start to finish. Likewise, Parias had no intention of giving up second slot and he held this throughout. Mike Ballantyne holding third could see George Price coming through the field and just managed to resist the challenge.

210 Nationals

Ten karters for this one which included two very fast visitors, Frazer Barber and Keith Ferguson. In the first heat, Keith showed just how well a Villiers can go when he took first place from Frazer and Cole. In the second, Bill reversed the order right up to the last lap when he spun and let Keith through but still managed to keep in front of Frazer. The third heat saw Frazer really flying, until Keith pegged him back on the 9th lap, with current Club Champ Des Davison moving up to take third.

For the final, Bill Cole decided he had been far too nice to the visitors and proceeded to show them round Felton. The finishing order being Cole, Barber, Ferguson with Davison suffering engine seizure on the 8th lap.

Results: -

1st Jason Plato Pat Walsh

David Hillcoat 3rd

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Reg has always remained loyal to Jack Barlow's Barlotti marque. Reg and Jack (right), Jyllands Ringen, 1975.

While the sport 'grows-up', too, the Gange traditionalism simply offers stronger resistance to the tides of publicity and 'glamour'.

"Yes, it is less fun now," he agrees, "partly because the sportsmanship has gone out of it. True, the competition is more of a challenge because it's stronger, but sometimes I think it's got a little bit too serious. There's more and more back-stabbing."

Neither does he have much time for the fibreglass fad. It has assisted the sport's image enormously, yes, "but I personally think a lot of people talk a lot of rubbish about it. I don't like full bodywork on karts, although if it's necessary I'll have one. As far as the look goes, I don't really like it, because to my mind a kart now looks like a Scalextric car. Nine out of ten of those undertrays are nonsense too. The only one I think ever worked was John Ball's first one, which had a proper skirt system just like a racing car. But all these others. . .

if you're going for suction, to my mind it can't work without suspension. Every time you hit a bump in a kart, you're breaking the air seal."

"Perhaps now that there's actually been a body tested in a wind tunnel, they'll be worthwhile - but it'll be the first one that has."

Of course this no-nonsense approach to the sport is not new to Reg Gange. His entire history echoes to straightforward individuality and a liking of karting that has remained just that. rather than becoming all-consuming. Illustrating this attitude, he reflects on the missed possibility to race single seaters as

"I do have a few regrets about not going into cars, but I only have myself to blame. I could have gone into them years ago. My father offered me the chance, but at the time I didn't take it. I was offered a Formula Ford - or a deposit on a house. I took the deposit on the house, and I don't regret it that much, but perhaps I would have liked both!"

That's not to say that once he had accepted the domestic life Reg was prepared to shut motor racing out though. A couple of seasons later, his mind was very much on the single seater scene, but, he shrugs, "one or two people we've known unfortunately got killed in cars, and so father went right off the idea even though I hadn't. Without his backing I didn't have much chance, and I just let it go."

It was an incident typical of the man's racing history, and Reg knows it. Happily, he also accepts it smiling.

"Let's face it, we're only doing it as a sport, not a living," he emphasises. "To be sponsored in this game isn't anybody's right - you're just bloody lucky if you are."

He pauses to mull over this thought, before adding energetically "you're out there to enjoy it, but of course winning helps you enjoy it that much more! I'm looking forward to this season, with the new Zip/Rotax. (Reg will be running as part of Martin Merritt's "Vingt-Trois" team.) I've got into the frame of mind where I'm either going to go quicker, or I'm not gonna race at all. I hope to put the last couple of year's wrongs right. And that's fighting talk!"

Those words might have been accompanied by a modest laugh. but the cold record - unjust though it might be - does at least show that there is a fighter beneath that happy-golucky veneer. If Reg Gange Jnr. has anything to do with it, 1981 will be "go lucky."



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continued . . .

After winning all three heats, Stephen Gill had pole position for the 100 Britain final in front of Malcolm Ellwood, Eric Smith and Victor Vaughan, making his Fulbeck debut with the err. . . Big Boys, after a highly successful career in the Juniors.

As they came past me after two corners, Vaughan was tucked in behind leader Gill, ahead of Ellwood and Smith. He didn't survive the lap, however, and had to walk home. His place was adopted by Ellwood who also had to walk home when he expired on lap four. By this time Gill had a lead of 81/2 seconds over the new second place man Eric Smith. That's how it stayed with Gill increasing his lead all the time. On lap 10 Bill Baxter retired and his third place was taken by Phillip Hogg. Whether it was a sign of trouble or just plain relaxing. The heats for the 125 Nationals were run with with an assured win in sight, I'm not sure, but the 250's and this produced some interesting Stephen Gill's 11.9 second lead was reduced to comparisons. Each of the three heats had a a totally unexpected win over Bill Tinkler and 8.2 on the penultimate lap. It would have been interesting to see three more laps.

David Bunn was the best placed Novice, finishing fifth behind Chris Noonan.

100 Britain

Stephen Gill 1st Eric Smith Phillip Hogg

UFO/Arrow UFO/Brad Arrow Barlotti/Arrow

As usual the 100 National class was best subscribed with thirty entrants. The heats showed no one favourite and in fact only twelve drivers managed to finish all three heats. Peter Elliot was having trouble setting up his new FRED Bear for the dry conditions. After the second heat he realised that his steering wheel was about 30 degrees out compared to last year's UFO. Having got it straightened out he went and won the next heat - mind you it was anybody's at one point. A nudge among the leaders on the very first corner put thirteen karts out in one go. Most managed to restart but Lew Marsden had to retire with a broken track rod.

The grid for the final was Nigel Edwards, Nicky Fletcher, Derek Buckton (see last month's prophecy) and Peter Elliot. Nicky got away first and came past me leading Edwards and Peter Giddings who had made a staggering start from tenth place. At the end of the first lap Edwards had taken the lead and Elliot had taken third with Derek Higgins behind him. Giddings dropped back to fifth in front of Marsden and Adrian Wood. One lap later Higgins took third place from Elliot and Giddings lost fifth to Marsden only to get it back again when the latter came spinning into the second hairpin with what looked like a disconnected steering column. Buckton had had a very bad start and had got himself bogged down in the midfield and was unable to improve on seventh place. As the race went on Nicky started dropping back losing her place to Higgins and then a lap later to team mate Elliot. On the seventh circuit as the leaders started mixing with the tail enders, Edwards got caught off line and lost three places. After that there was no more movement among the leaders but the dicing was as close as it's ever likely to be.

100 National

Derek Higgins Peter Elliot

> Parilla Nicky Fletcher FRED Bear/FRED

Dino/DAP JM

FRED Bear/FRED

CLUB SCENE



different class as winner. Rotax powered Brian Stuart Eason who were the only drivers still on Borwell had a second place to an International. a win over the same International and a fourth place earning himself pole position. Gary Hill, with two third places was behind him.

At the second corner Adrian Wilcox was 2nd leading from Brian Borwell, Novice Stan Harvey and Gary Hill. Two circuits later Borwell had passed Wilcox and Hill had passed Harvey. The racing remained very close with only one second covering the leaders until lap six when Hill got past Borwell. Borwell seemed to be getting slower all the time and on lap nine he

125 Nationals

Gary Hill Zip/Chat. Yamaha Adrian Wilcox Barlotti/Rotax 3rd Barry Barthorpe Star/Rotax

The 250 National/International final was one of those races where Lady Luck was shining on one driver only. Barrie Borwell and Glen George made good starts and set the pace through the first three corners followed by John Dixon, Bill Tinkler and David Miles. For five laps it was a straight chase until Borwell developed a misfire and started slowing down. By the seventh both George and Dixon had got past and it looked as though Borwell was going to have to be content with third. (He was still well clear of the pack) but two laps later George and Dixon had a coming together (Evening All!) leaving a one cylindered Borwell with

Glen George (15) powers past 250 National driver David Miles (Photo: D. Thomas)

250 National

1st Bill Tinkler Minstral/Bultaco Stuart Eason Zip/Yamaha

250 International

1st Barrie Borwell Sprint/SFR Yamaha

The final race of the day (and a fine sunny day it was too) was for the 210 Nationals.

Richard Boston was awarded pole position after one win and two seconds to Bill Longden who had not managed to finish in the other heat and was consequently lowly placed on the grid. After two corners Boston was leading from Vince Mundy, Robbie Kellett and Bill Longden. With each lap Longden moved up a place until he had a lead that was completely unchallengeable.

Neil Wheat was the best placed Novice in seventh place.

210 National

Bill Longden Barlotti/Villiers 1st 2nd Vince Mundy Barlotti/Upton Richard Butler Barlotti/Upton

And that was it. All finished and the sun still shining. Now I've got to meet the wife in Enfield at 6.30, I wonder if I'll get there in time.

Beccles

140 people arrived at Hedley House, near Lowestoft, on Saturday 29th of November for up and the fun started. One of the highlights Beccles and District Kart Club's Annual Dinner of the evening must have been the "Okey Dance/Prize Presentation night. Things were Cokey". This was thanks to the smashing, or well under way by 7.30 p.m., with Dinner being should that be flashing, ladies who took part served a short while after. Starters was a delight- and also to our very own rubber lipped "Nancy ful egg mayonnaise. This was followed by a Boys". Great fun. main course of beef and "accessories", which left a very pleasant gateaux to round off the meal. .

Next up was the prize presentation. A short, and enjoyed by all. THANK YOU. but sweet, introduction was given by John Osborne. John thanked all the Club's helpers who CLUB CHAMPIONS have done so much this season, the Committee Members and in particular Don Briggs, Peter Carter and the Barrington family. The trophy presentation was then held with the prizes Parilla being presented by an as ever youthful Monica

Beaumont; to whom, and for what, is listed

The floor was then cleared, the band struck

Finally on behalf of everybody present, I would like to thank Monica Beaumont who organised the evening, which was a great success

JUNIORS Andrew Pogson 100 NATIONAL Gordon Chenery 125 NATIONAL

210 NATIONAL

Boyd Barrington Chris Prue

10

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100 National has always been the largest class numerically, in British karting and with the advent two years ago of the Kart & Superkart Championship, the class is now going from strength to strength. 1980 was a very good year for 100 Na- his lead in the K & S Championship was un- last two rounds, combined with a turning of tional, producing an incredibly close finish the class "grows up", so it breeds its own

up that year.

Whenever you reflect on a particular class and Championship series, the people involved seem to break themselves down into three rather distinct categories, which more often than not are reflected in final Championship standings. Firstly, there is what we might call the consistent winner - the driver who the remainder of the field constantly watch to see what the "pace" is, and what standards they need to achieve to become a winner. This category of driver obviously doesn't win everything - 100 National is such a competitive class, that this is an impossibility - but when he doesn't win, he is usually somewhere in the placings having perhaps been forced to come from the back. The second category would seem to be made up of those who on their day can be brilliant. On pionship, their final position is likely to be ominous list of failures. Thirdly, there is "Mr. Consistency". He perhaps hasn't got the outright pace to consider himself a winner, but he's always there in the 'A' final, rarely non-finishing, and as a result, quite handily placed when points are added together.

Two people stand out from the rest and quite naturally seem to fall into our first category - the fairly consistent winner. And naturally enough, these two occupied the two top spots in the 1980 K & S Championship fight. Mark Tredwell is the undisputed King of 100 National racing in Britain today. His record of consistency as well as outright wins cannot be

Carr (at the back) let them get on with it at the final K&S round, accumulating enough points to snatch the title. Lew Marsden (83)

National Pride

that the Championship should be taken away incredible climax to the Championship, at the to the Kart & Superkart Championship from him amidst such dramatic occurrences as final event. With just the last final to go, Carr plus an undisputed British Champion. As the last couple of rounds. Although he let this knew exactly what was necessary to sneak a stars and known winners. We look at the of practice, there was simply nobody capable of living with him. This latter event, best illustra- indeed just reward for sheer tenacity. year and in particular the faces that made ted the most outstanding feature of Tredwell's team. Along with Mick Fullerton and his other are those of a charger. His ability to push his regular team personnel Tredwell had the ability way through a crowded field is unquestioned, to set up his equipment very quickly at a new circuit. Even if practice time was limited, the being a trifle hard on his equipment. The initial heats were often utilised to compare engines etc. That sort of approach requires full confi- backing during the last year have had an effect dence on the part of both the driver and the on Paul Carr, and the, at times, necessary team, and they certainly had that. Mark is the curbing of his naturally flamboyant style will closest person one has in 100 National to a pro- probably do much more good than harm in fessional. At the end of the season, he switched to Dartford Karting's stable, and if performances will be a very, very good man who takes his during his off-season build-up are anything to title away. go by he is still very much the man to beat this year. He races virtually every weekend and with the back-up he receives, will be very much on Gary's personality is an interesting mixture, for form when the 1981 K & S Championship trail

Although overshadowed by Tredwell for most of the year, Paul Carr actually slipped in other days they can be terrible. Over a Cham- to snatch the K & S Title right in the very, very last moments of the series. His was a somewhat made up of one or two very high scores, but an turbulent year, starting with the promising joining up with TKM to represent them in the class. Apart from an utterly convincing win at the Kimbolton second round, the early rounds were fraught with difficulties - mechanical and otherwise. This resulted in the sudden announcement that the Little Rissington round, the fourth, would be his last as a member of the TKM team. The next few weeks saw Carr on a works supplied Zip, but then the mysterious see- really a comprehensive tester of equipment. but saw year changed yet again with an astounding give him an old bag of bolts and he will drive it return to TKM - somebody had done their sums and figured out that with only two rounds another to change camp at the end of the to go, he was virtually the only person mathematically capable of catching the series leader take up the Sisley Karting banner for whom he argued with. At one stage, it seemed as though Tredwell. So, despite the rather unhappy nature of their parting, at which time both parties hinted that the mechanical problems led at this stage, from Neil Hann and a fast- the most of the re-uniting is now history. The manage to combine perhaps one outstanding closing Tredwell (1), (Photo: K.W. Gibson) determination with which he approached the

approachable – and really it was almost unjust the luck tables against Tredwell, resulted in an slip, there was no mistake at the RAC Cham- points win. His drive in the final was very calpionships at Rowrah. Right from the beginning culating, avoiding trouble and just doing what was necessary. The Kart & Superkart title was

Under less tension, Carr's natural instincts although he has acquired a slight reputation for experiences of the pressures of full works 1981. He remains with the TKM team and it

One driver who falls very naturally into our second category - the charger - is Gary Prior. he is very popular amongst his fellow drivers yet at times he can be the most aggressive one of them all. Very definitely a charger, Gary was one of those who had a couple of excellent Championship rounds, but with rather lean results at the rest. He started the year under the Mistrale banner, but after three Championship rounds with somewhat minimal success, he and Mistrale parted on fairly amicable terms, as Gary was about to commence employment with, and driving for, Dartford Karting. His first couple of rounds were Gary at his best and the rest of the series looked rosy. But one or two problems at Felton and Fulbeck kept Gary down to tenth overall in the end. Gary is not as quick as the damn thing can go. Prior is season, moving a few miles across country to will drive in 1981.

Such is the depth of 100 National talent, that there must be a good dozen or so other were the responsibility of the other, Paul Carr drivers capable of winning a Championship and TKM were back together. That Paul made round on their day. A fair proportion of these





continued . . .

performance with a fair measure of consistency through the rest and there is quite a bunch of this calibre occupying the rest of the K & S Top after a break of a couple of years, and running this year. with Wycombe Racing equipment, Kenny showed form right from the start. His opening three rounds were all good strong consistent he had the confidence to miss the fourth round for his best result of the series. The last three Fulbeck, allowing Tredwell and Carr to consolidate their advantage. However he had already done enough to be virtually certain of third overall in the Championship and this in itself was a very noteworthy achievement. Churchill seems set to remain with Wycombe Racing for to watch during the rest of the series. But in 1981.

and therefore did not feature in the points totals was only due to some very dour drives in the until later on, bursting into notice after a superb latter stages of the series that Roger was able to that new winners will emerge. win at his home round at Felton, beating Tred-pull himself back up into a top ten finishing well after a fairly dour tussle. For some reason, position - eighth in fact. Roger has run under Williams remains rather inconspicuous on the the Sisley banner with works supported Hewcircuit, but more often than not is putting to- land engines, but with Hewland's scaling down gether a consistently high points scoring effort. of their works support his 1981 plans are not This sort of high placed consistency earned him fourth equal in the 1980 K & S series.

Sharing this fourth spot with Williams was 6 K&S rounds. Neil Hann. The man from Mistrale Racing had a positively disastrous start to the Championship, "bombing out" at both of the opening rounds. Under the constant pressure of not being able to drop more than one more round, his remaining season was pretty good. Neil is perhaps fated to be the Stirling Moss of 100 National karting, so many times has he come so close to winning a Championship round outright. Neil made pole position at Little Rissington only to be eased out by his recently departed team mate, Gary Prior. Again, at the final round, Neil was right there leading for a great portion of the distance, but then succombing to the late charge of Ian Ross-Johnson, enjoying a one outof-the-blue performance. When Neil finally does win a Championship round, and he's determined that it will happen this year, it will be a very popular and certainly hard-earned win.

In contrast Peter Christo's early season performances, with the exception of an uncharacteristically bad Kimbolton round, were top

12

The press-on style of Gary Prior (Photo:

class. In fact after only six of the eight rounds, Peter seemed poised to take a very high overall placing. However, in trying to better his best five performances, the last two rounds went somewhat astray, and in the end he had to be Ten. Undoubtedly the surprise of the year was satisfied with sixth place overall. Definitely Kenny Churchill. Making a return to racing somebody who could be very, very near the top

Northerner Georgie Price also started the season with a bang - three very good scores on the trot before disastrously writing off his kart highly placed stuff. At this stage, and lying in the opening heat at the Little Rissington second only to Tredwell in the Championship, fourth round. He missed the next round and to the outside world his chances of overall points and go on holiday. He returned at Clay Pigeon now seemed pretty small, but two more meaty performances in the last three rounds, inclurounds saw him slip slightly, especially at ding a storming drive at Fulbeck pulled him right up to seventh in the overall standings.

Roger Moth is a bit of an enigma, even to himself. For the last two years he has won the opening K & S round, both at Tilbury, to mark 1980, as in the year before, the rest of his sea-Ian Williams missed the first K & S round son just didn't live up to this initial promise. It

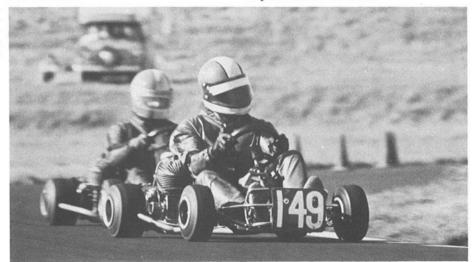
George Price did exceptionally well from only

yet certain. Roger is a stubborn chap, and some of his drives from the depths of the 'C' or even 'D' final were remarkable.

The final remaining member of our K & S "Top Ten" is Dickson Karting's Brian Parias. Ninth overall was perhaps not quite a true reflection of his overall ability and pace. Parias seemed to suffer slightly more than his share of bad luck, but then again you can make your own luck to a certain extent. Parias came on strong in mid season with two very good results at Clay Pigeon and Felton, but just when a consolidation of points seemed on, things went wrong again over the last two rounds.

If there was ever an example to illustrate the depth of talent and the closeness of 100 National throughout Britain, it is the fact that three of the eight Championship round winners didn't even make the top ten. Chris Stoney sprang a totally unexpected home track win at Three Sisters, and then promptly disappeared from the rest of the series. Pete Elliot's win at Fulbeck was not so much a case of another home track specialist win, but more an illustration that he should really have done better over the rest of the series. Pete is a thinking driver, whose equipment is always well prepared, but apart from Fulbeck and a great charge at Wombwell (unfortunately ending with a collision with Lew Marsden when in a strong challenging position), his season was a series of problems. The final, and perhaps most spectacular win, was that of Ian Ross-Johnson, at that spectacular final Wombwell round. Starting from the middle of the 'B' final, on equipment - chassis and engines - borrowed from Doug Spencer, Ian qualified easily for the main final, and then simply drove his way through the field to emerge almost from nowhere to finally slip by Neil Hann with a couple of laps to go. His non appearance in the final Championship standings is due solely to the fact that he only competed in two other rounds. But the obvious ability and potential shown during this win has earned him a position in the two kart 1981 TKM challenge. Watch Ian Ross-Johnson very closely in 1981 - he will be somewhere pretty near the front! The 1981 K & S himself as an obvious candidate for the others series has been formulated (see Just Heard. . .) and reverts to the 1979 format with six rounds, four to count. Judging by performances last year and the obvious depth of talent now on the 100 National scene, it's more than likely

On the equipment front, the class is wide open - last year's eight rounds were won by no less than seven different chassis and five different makes of engine. With the continued basic stability of the National tyre situation there is no reason why the 1981 Kart and Superkart Championship shouldn't match the 1980 series in spectacle and excitement.



Tilbury

BBN Products Winter Series -January 11th

Thick frost on the track later dispersed under the influence of the sunshine and salt supplied by The Almighty and the L.K.C. respectively, so that we could get round three of the series underway.

100 Britain

Tony Cruttenden did well to lead heat one after starting at the back of the grid. He was followed home by David Germaine and Andrew Stapley who had come off and restarted. Starting from pole made Tony's second heat win even easier, this time Andrew Stapley was second and David third. The final was a virtual rerun of heat two with Tony winning easily from Andrew and David

National Novices

If it is possible to be a leading Novice, this title should go to David Beams and Quinton Searle, who both do well at Tilbury and kept the sequence going with first and second place in front of John Thompson.

210 National

Trevor Gowers interrupted the Colin Ling/Jim Paffett running battle by finishing between them in heat one and winning heat two. However he disappeared in the final leaving Colin to take first place in front of Jim and Novice J. Hesse who finished a very good third.

250 National/250 International & 125 Nat.

The class winners made sure of it by winning both heats as well. Keith Allen, Roger White and Vaughan McNealy were the trophy winners.

Junior Britain

Pole man Kevin Keith made sure of heat one with a clear win from Steve Brogan and Martin Prior. Heat two gave another pole man the chance of an uninterrupted run home, this time it was A. Colson who finished first in front of Darren Beasley and Jamie Chitty. The final saw Steve Brogan all set for a win until his engine gave out. Jamie Chitty, now in the lead, drove cooly home followed by Steve Dart, who took second place from Tony Davis after a smart move at the hairpin resolved a contest that had been going on for several laps.

Junior National

Gary Moynihan's win from Lee Cranmer in heat one was reversed in heat two, but in the final it was David Chitty who took the initiative on lap eight to overtake Lee. At the same time Gary also slipped through and at the flag it was victory for David with Gary second.

100 National

Four heats for this group with wins for Terry White, Roger Moth, Wayne Homer and Mark

The B Final was quite a race, as a lot of the good 'uns had dropped a heat and found themselves fighting for a place in the A final. Kevin Warner led this race home followed by Robbie Childs, R. Jennings and Tim Harvey. In the A final Mark Tredwell's pole position gave him the edge over Wayne Homer at the start but the two stayed pretty close for two laps until Mark seemed to find more grip and pull away. Further back an interesting contest was taking place between Roger Moth and John Herbert finally

resolved when John found room to squeeze 250 National through on the hairpin to take the third place from Roger.

Well there we are, three rounds completed and the Grand Finale to come in February with double points at stake. It should be quite a

RESULTS:-

100 Britain Tony Cruttenden Dart/TKM

Kestrel/BPH Arrow Andrew Stapley National Novices

Cobra/K80 David Beams Quinton Searle Mamba/K88 Cobra/K80 John Thompson

210 National 1st Colin Ling Jim Paffett 3rd J. Hesse

Barlotti/CL Upton Barlotti/Upton

Zip/Upton

1 et

Keith Allen Zip/Honda

250 International

CLUB SCENE

125 National

Roger White

1st Vaughan McNealy Zip/Aseco Yamaha

Zip/Yamaha

Junior Britain

James Chitty Colt/TKM Steve Dart Kestrel Sisley/Arrow Tony Davis Dart/Arrow

Junior National

David Chitty Colt/Parilla 2nd Gary Moynihan Dart/TKM

100 National

Mark Tredwell Dart/TKM 1st Gillard/K80 Wayne Homer 2nd 3rd John Herbert Cobra BPH/Arrow

Fulbeck

25th January

was the question I asked myself as I pulled out from the filling Station at Apex Corner on my way to Fulbeck. There had been no phone call to warn me of bad weather in Lincolnshire and the forecast had been remarkably optimistic Consequently the Junior final was a bit oneso I was looking forward to a sunny January sided with the three Nationals placed at the day in a field.

speed, I hadn't noticed that it was. Not until I got off the bike that is! He was absolutely right. My shutter finger almost froze to the camera. Junior Britain Am I glad I didn't want to go to the fibreglass 1st Jamie Kavanagh

Younger brother had come back from Tuni- 3rd Adam Moody sia for the first meeting of the new season and was looking forward to finishing a heat or two, Junior National Nicky Fletcher and Peter Elliot were both giving 1st Graham Kershaw Dino/Peary TKM their new Fred Bear chassis their first dry weather contests and looking forward to a victory or two and Glen George was dazzling everyone as the sun glinted on his silver and The FRED team - Pete Elliot (45) and Nicola

What about the racing? Well there's nothing new there, they still go round and round, some crash, some break things, some spin off, the same people keep on winning. No that's not true. There are quite a few new names among What disasters can befall me this time? That the trophy winners this month and to find out who they are. . . read on.

Over the last few meetings the Junior Nationals have been very poorly supported, but never as poorly as this - only three entrants. front of the grid. Simon Blessed was unable to The man on the gate complained to me start so his third place was taken by Adam about never having a warm day for the karting. Moody. Graham Kershaw had an impressive "It's always cold when I'm stood here," he said. lead by the end of lap one with Jamie Kavanagh Just having ridden 116 miles at neck straining on the leading Britain in an equally impressive second.

Mamba/SS20 Patrick Walsh Premier/Arrow Zip/Hood Hewland

blue leathers with matching kart trim and Fletcher (2) - touched en route to second and looking forward to being on the cover of Vogue. third in 100 National (Photo: D. Thomas)



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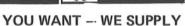
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By the time you read this, the first Cadwell even break up. The clutch drum is splined onto has not happened before. I can not see the total meeting will be over, and maybe many of the the shaft and retained by three 5mm cap screws. questions about Yamaha vs. Rotax and air- These have a habit of coming loose if not fitted cooling vs. watercooling will have been answered. with Hermetitie Torqseal (plug!). However, more... My prediction, for what it is worth, is that the once a retaining fluid is used, there seems to be Rotax will be slightly quicker than the Yam., no problem - it is only a 5 minute job to check especially out of the hairpin and up the hill. them anyway. The watercooled TZ Yamaha could have a slight edge over the aircooled units - once with the main bearings being retained in a nylon I must apologise for an error in last month's again out of the hairpin mainly - although I sleeve. After a time, this would wear, and give don't expect much lap time difference between play in the cranks, causing drive gear problems the TZ and a good aircooled Yamaha.

users will be overheating, due to incorrect water I have seen, and all the motors we have, are pumps or radiators, (or more likely, air in the now fitted with this as standard. system) as people try out and set up various

It will be interesting to see how "Ed" - well! It always happens... Chris Lambden - goes at Cadwell, with it being A word or two to outline the points system for fact the chassis I did all the original testing on prize money distribution. and found that I could not get used to with the tooth for change now! ...

firmed by the CIK and the RAC that the Ro- come from any of the four remaining meetings. tax 256 is indeed eligible for 250 International. meeting all the CIK requirements.

shown it to be incredibly reliable - in fact in the equivalent of 4 meetings running we haven't the pistons, they seem as good as new, so I would expect to get 7 or 8 meetings, maybe more, from a set - at £37.00 each (as against £10.85 for Yamaha ones) they do need to last a bit longer! ...

My experience with Yamahas is that you need to fit new pistons each meeting to retain maximum power. So on that basis, the Rotax should, in the long run, save me money on pistons. The reason for the better piston wear is use an aircooled engine in the 6 events that engine, has smaller ports generally and no large watercooled in one of these then you would induction port for the piston to "fall down" this port on the TZ "G" is incredibly large. coupled with the Nikasil coated cylinders, gives a very low wear rate.

We found one weakness, which if not

Something to sell? Takea

mini-ad

In the early models, there were problems etc. This was changed some months ago, with The stumbling block for watercooled unit alloy sleeves being fitted instead. All the motors

Well, now I've claimed such reliability from more money than me. . the engine, it will probably blow to bits at Cad-

his first Superkart outing in the UK. He will be the Zip Champion of Champions series would using a Rotax on a "right-hand" Zip GP - in seem in order, as well as an explanation of the

From the eight rounds listed, the best 6 reengine on the right - perhaps I'm too old in the sults will count, but this 6 must include 1 result not sure whether it is the jewellery connection each from Cadwell, Donington, Snetterton, and By the way, it has just been officially con- the Thruxton meeting. The other two may

The points system will be: 1st 40, 2nd 37, 3rd 35, 4th 33, 5th 31, and so on down to 20th where 1 point will be scored. Only the top 20 The testing we have done with the Rotax has finishers in the final at each round will gain points towards the Championship. The final round will be at Donington in September, and even changed a carburettor jet! On inspecting this is where the prize-giving will be - after the meeting in the Red Lodge.

The £5,000 fund will be split as follows: £4,000 overall prize money, £425 to the 1st, 2nd, & 3rd aircooled units (in addition to whatever they may win in overall money), with the balance of £575 making up trophies etc.

Anyone unable to change to watercooling could thus win the money to do it in '82! To be eligible for the aircooled awards, you must twofold: firstly, the Rotax, being a rotary valve count towards your total - if you have used a not be eligible.

Well I hope that is clear, because the next Secondly, the piston itself in the Rotax is an bit may be a little difficult to explain! The excellent forged Mahle product, and this, prize money will be split up slightly differently from the norm, but in a method that you will agree is fair to all.

Let's take the total fund of £4,000, and checked could cause the clutch to lock up or assume that the total points scored in the series by the top 20 drivers will be 2,000 (this won't be far out). Dividing this into 4,000 gives exactly £2 per point, so the top 20 will each win £2 per point scored.

If for example the top three have only 10 points between them at the end, they will win approximately the same amount which seems pretty fair to me. As Bruce Forsyth says, "Points make Prizes!" - and even the 20th place man looks like taking home £100+.

If you finish, say 10th in each meeting, that makes 21 points, which would equal £42 per meeting - not a bad bonus, and something that

Zip Champion of Champions Cadwell Park 22nd February Donington 15th March Snetterton 4th April Cadwell Park 19th April Snetterton 9th May **Donington** 14th June Thruxton 5th July Donington 6th September

points exceeding 2,000 - in fact it should be less, so the £2 per point could well be £2.50 or

If you've got any thoughts on this system (or you see a stumbling block I've missed!) let

column, where I referred to American John Gibson driving a Hermetite Zip at the GP this year. It should of course have read Homelite Zip. As much as I would like him in the Hermetite team, I'm sure Homelite would never release him, and besides, they've probably got

Back in the UK, Martin Merritt has formed his Vingt Trois Bullion Team (for the uninitiated. that's "23" in French, which is his number in Hatton Garden where he deals in gold & jewellery. End of plug.) with himself and Reg Gange as drivers. Both will campaign new Zip GP's with Rotaxes from Donington onwards. I am or the nearby ballet that is influencing Reg's appearance, but the sketch (shown) is an artist's impression (Reg's cousin) of Reg in his new 1981 Spring outfit! I'm beginning to worry



Northern Irelander Raymond Lyons will be back on the scene shortly with a Zip GP/Rotax set-up and is threatening to appear at Snetterton on 4th April. If you are coming Raymond, bring some of your mates - there's a great bar



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Ever fancied yourself as an action photographer? Karting provides an interesting challenge to those who prefer to capture the thrills through a lens rather than from behind a steering wheel.

With the assistance of three regular K&S contributors, we examine how to go about it, the equipment to use, and take a look at some good - and bad - results.

Dave Smith's livelihood comes from photography. His involvement in karting is confined to long circuit racing - in itself a fairly specialised and demanding branch to photograph. Dave outlines the basics for hopeful Superkart

They're about 5ft. long, 3ft. wide and 3ft. high, move at anything from 40mph to 140mph, and are liable to make right-angled turns without warning at any point of their journey. As a species they are only rarely found singly, preferring to run together in packs which may number up to 60 (when all are in healthy condition!). Selecting one from the group whilst it is in motion and preferably engaged in some interesting manoeuvre and then shooting it, isn't quite as difficult as it may seem if you go about it in the right way. In this short article, I hope to outline a few points which may help those of you who have tried it in the past and failed.

The quarry of course, are Superkarts in action, and to shoot one we will be using a camera not a rifle. Here lies the first truth it should be obvious that you can't use a home movie outfit to make a "Star Wars", and the same rule applies at the track-side. If you own a pocket Instamatic or similar camera, you'll be wasting time, film and money trying to use it for a purpose for which it wasn't designed. There are thousands of photographs to be found in and around the paddock area, and here the cheapest and simplest camera is just as good as any other, so don't let your lack of specialist equipment stop you from using your camera, even if it isn't quite up to David Bailey's standard!

Let's assume then that you have the basic tool for the job - a good quality 35mm SLR and are wondering what materials and equipment to use. Despite what you may see around the circuits, it is not essential to spend a high percentage of the G.N.P. on lenses and motordrives and then spend the whole day staggering



Zoom In





Top: perfect example of "panning" at high speed. Bottom: same venue, same subject, but exiting a tight hairpin - this sort of shot is easiest for the beginner (Photos: Dave Smith)

photographing high speed subjects before but class. would like to have a go, I'd suggest you go for the cheapest and most readily available of all essential art of "panning" with the machine. telephoto lenses, a 135mm. It's not ideal, but All that this entails, is following the kart you is cheap enough that even if you find you lose wish to photograph through the viewfinder interest in Superkart photography, you won't from a point well before the corner to a point have thrown away a fortune. An ideal first beyond where you will have pressed the lens though, would be a 200mm which gives release. Sounds easy? It is, but it has to be done you that little extra range, but will cost a bit

corner on the circuit, and position yourself if track where the kart forms a good picture and possible on the exit side. This gives you a focus the lens to that distance - don't try to couple of advantages - the karts are at their focus on a kart you are following whilst it is slowest, making it easier for you to keep them moving, the chances of you getting it in focus in frame; as they leave a slow corner they put at the same time as it passes the ideal position, down plenty of power which gives a good and firing the shutter whilst in the middle of a interesting shot as the tail slides out; and usually perfect piece of panning are pretty remote at you get "bunching" as they try to pass one this stage! Once you've pre-focussed on a piece another going through the corner.

look at the right way to get the shots you're it reaches your selected area. after. The subject being what it is, you've got 200 for slides on occasions. Set the shutter in and out of focus very quickly indeed. speed as high as possible in the available light -

about festooned with half a ton of metal and with a 200mm lens 1/250 sec. is about as slow glass on your back! If you've never really tried as you should go until your technique is first

Use a few laps of practice to try out the perfectly smoothly every time to get results. with no "wandering" from side to side as you For your first attempts, choose the slowest follow the kart. Make a note of that part of the of track, all you have to do is follow the kart You've found the right place, so now let's through all the way, pressing the release just as

Remember also, that a subject moving to use a high-speed film. Black and white and directly towards you has no sideways movecolour films are both available at 400 ASA ment at all and so panning doesn't come into rating, my own choice being Kodak Tri-X and the procedure, although here your timing is Kodacolour 400 respectively, with Ektacolour more critical as a kart moving at speed will be



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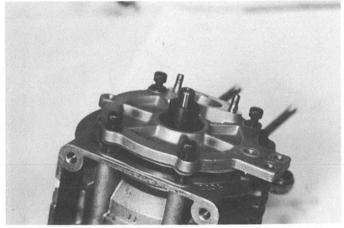
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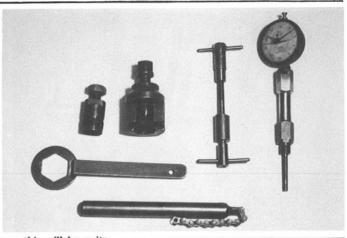
STOP PRESS

THE NEW BURGESS 811 Britain and National karts will be here soon.



TECHNICAL





hours (6 meetings). At this stage, he bores and the con rod. In most cases this will be quite this period of running.

assembly recently, and it may pay to check with your Dealer on this. If so, this will ob- like, but psychologically it seems to help! viously require more frequent replacement of the little end washers.

Reassembly

Using a new gasket, the crankshaft is fitted within the two crankcase halves, using at this stage just one bolt in each corner of the crankcases. This is to enable checking of the crankshaft end float i.e. the side to side movement of the crankshaft within the bearings. Mark checks this with the aid of a dial gauge. A side float should ideally be between four and six thou. Any greater amount must be reduced with the use of purpose made shims which fit behind the not in the correct position so that the gap of the special adaptors to enable it to be main bearings, and will thus mean that these aligns itself with the pin in the piston - a will need to be removed again. Once upon a simple thing, but one which has caught out time there were shims available which fitted on many, many novice engine rebuilders in its time. the crankshaft itself, but these invariably chewed themselves up and were thus pretty undesirable. about the only part of the engine which really

cases can be undone again briefly for fitting of the ignition side oil seal. As mentioned during this stage. A piece of solder wire is pushed the strip process, the modern rubberised casing on oil seals means that they can be fitted by ble bend so that the tip will come to rest against hand pressure, ideally using a flat ended shaft the side of the bore. The engine is then turned of diameter slightly less than the seal itself. The over manually so that the piston passes over drive side seal can be fitted to the rotary valve top dead centre, thus squashing the tip of the cover at the same time.

the final time. Lightly oil the insides of the oil the solder above either end of the gudgeon pin seals during assembly as this will help them slide over the crankshaft and reduce the likelihood of damage. Trim the crankcase gasket so that it is flush with the barrel mating the sur- measured with a micrometer gauge and should face. Incidentally, no gasket cement is necessary during assembly for 100cc engines.

The rotary valve collar and its retaining circlip can now be refitted followed by the rotary valve itself - in the correct position of course - and the rotary valve cover. Mark utilises a neat little seal guide to help slide the valve cover oil seal over the crankshaft shoulder. This ensures that the seal does not twist and in fact sometimes flick out its internal spring.

The piston assembly is now fitted. Check that the piston has at least 10 thou side play on crankshaft is not in quite the correct position, filings dropping into the crankcases! . . .

hones the barrel to the next over-size and fits a okay, but some recent batches of pistons have new piston at the correct bore clearance. As a been a little tight. If so, this will need careful rule, Mark doesn't fit another piston of the relieving with a small file. For assembly, the same size, as on most 100cc engines, the exhaust small end needle rollers are held in place with bridge especially wears quite badly even during liberally applied grease and the dummy gudgeon pin is fitted along with the small end washers. As a rule, small end assemblies - needle The piston is then dropped on, the gudgeon rollers and spacer washers - give very little manually pushed through, and finally piston trouble, but as most parts are replaced after six circlips fitted. With the double "eared" cirhours, many people replace these at the same clips, a tradition has grown up whereby the ears time. However one or two models of 100cc are either left exactly at the top or bottom of engine had a noticeably weak small end washer the groove in the piston. No-one has proof that this makes any difference to reliability or such The barrel and head can now be refitted. If

the size of the old base gasket is unknown, it must be checked as base gasket size is critical in arriving at the correct "squish" clearance between the top of the piston and the head. As this needs a micrometer gauge to do the job accurately, you may need to ask your local Dealer or whatever, to assist you in measuring same thickness. Trim the gaskets if necessary so that they do not protrude out into the ports of the engine, then slide the barrel back onto the

The cylinder head is, according to Mark, With the side float correctly set the crank- does need torquing down. He does this to 50ft./ lbs. The squish gap should really be checked at down through the spark plug hole, with a suitasolder down, enabling measurement of the The crankcases can now be assembled for squash gap. Incidentally, this is best done with as in other positions the piston may rock backwards and forwards slightly and affect measurement. The thickness of the solder is accordingly prove to be a minimum of 27 thou. Mark likes and this is done by addition or subtraction of cylinder base gaskets, which are available in varied thicknesses.

The ignition system is now refitted. On the TT23 this represents no problem as a rotor key remove the head and barrel, and examine the is used to fit the rotor in approximately the piston for "high spots". These will show up correct position, the final adjustment being as shiny streaks up and down the piston, made by rotating the stator. However, on the which should be lightly rubbed with a fine file. SS20 and TT22 models, the keyway in the Don't forget to use some clean rag to stop the



Top left: a seal guide protects the seal during assembly. Right: handy tools - top (l to r) Motoplat puller, sprocket puller, gudgeon puller, dial gauge and adaptor; bottom, Motoplat holder and chain wrench. Above: the timing marks on Motoplat ignition.

and therefore the rotor is fitted without the key but in approximately the correct position this. Replace these gaskets with new ones of the so that final adjustment can again be made by moving the stator. The correct position is where the timing marks (one on the stator, and one on the rotor) are aligned and the piston is between piston and down onto the crankcases. Of course 2.4 and 2.5mm before top dead centre. This is the barrel will never go on if the piston rings are of course measured using a dial gauge and one screwed into the spark plug hole. Note that the two ignition wires connected to the Motoplat coil are of different sizes - one hefty mechanic spent quite some time once fitting the smaller clip to the larger fitting! And of course the engine didn't run anyway!

The drive sprocket can now be put on again, plus the exhaust bend, That's it - your engine back in one piece, and ready for a good few hours running. Running in on a rebuilt engine especially when a new piston has been fitted after a rebore - should take at least one hour. The first 10 - 15 minutes should be very slow. and with no more than one third throttle at any one time. From then on the speed can be very gradually built up until at the end of an hour or so maximum speeds and throttle openings should prove okay. There is a popular misconception that running in involves crawling around for an hour then going flat out. This will most probably result in spectacular seizures! The purpose of to adjust the squish to between 27 and 32 thou, running in a piston is to heat it up gradually, which also expands it, so that it can gradually bed in, in the bore.

After 40 minutes or so of the running in process, it pays to stop, cool the engine down,



Pit shots can be interesting! Try thinking of a smallest possible aperture to give some depth caption for this one . . . (Photo: D. Smith) of focus.

Normally this can only be done in bright conditions, using 400 ASA film. Fortunately Ilford HP5 is such a good tempered film that it can be "uprated" (i.e. used with a higher ASA Once the basics above have been mastered, setting on the camera) to 800 ASA by extending you can then move on to higher things! Extra the development time. In fact I have found that

long lenses (from 200mm to 500 or 600mm) this gives such good negatives that I use this increase the number of vantage points open to 800 ASA rating at all times. Remember, the you, whilst a zoom lens will enable you to vary faster the shutter speed and the smaller the

it will pull the film through the camera, but Ilford 1D11 or Kodak D76 (they are virtually they are expensive and tend to use a lot of film the same) diluted 1 to 1 for 18 minutes, agitain a short space of time! A power-winder is not ting for 10 seconds each minute and maina motor-drive but is really a convenience item, taining the temperature at 68 degrees F / 20 desaving you the trouble and effort of having to grees C. The subsequent stop bath and fixer waggle that little piece of metal on top of the should also be within a few degrees of 68 degrees F to avoid reticulation (a fine crazy-All the above, and quite a few other bits and paving patterning of the emulsion).

Use either Ifospeed grade 3 or Veribrom grade 2 printing papers. Providing that you pushed the shutter at the right time, you will have a perfect print! . . .

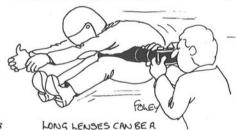
Pick your spot and you can get intriguing shots like this . . . (Photo: D. Croft)



the concentration on Mark Tredwell's face.

John Pudney is Managing Director of a successful Fiat agency, a regular K & S columnist, and keen amateur photographer, covering both long and short circuit meetings. With limited photographic knowledge, J.P. uses one of the modern, fully automatic cameras to produce his action photos. . .

It is flattering that so many of my photographs should be published in K & S, because when it comes to photography, I really am a cheat! With the quality of cameras and lenses available today, frankly anyone can, with a bit of thought, take good karting photographs.



BIT UNWIELDY.



the amount of area photographed without aperture, the less your problems.

having to move yourself. A motor-drive, if your camera takes one, lets you take shots as fast as Processing for the D.I.Y. processor: Develop in

continued . . .

pieces I could mention, are only tools to help you do a job. Even if you were given a couple of thousand pounds worth of the best equipment, it would still boil down to how well you can use it. I've seen people arrive at the circuit loaded down with expensive goodies and then spend half the meeting fiddling with knobs, switches and dials while trying to get the damn thing to work! The main thing you need for good results isn't in the camera case, it's your own skill and timing in using what equipment you've got, to the best advantage. Use the right tools, the right materials (film) and the right technique and vou'll get the right results. Just don't do it too well though, or you'll be putting people like myself out of a job! . . .

Dennis Callingham enjoys karting photography as a hobby, combining it with "spannering" for son Chris. Dennis thus covers mainly short-circuit meetings and his methods are thus orientated to this particular type of picture:

Equipment Used: Camera: Olympus OM1 & OM2 with power-

Lenses: Vivitar Series 1 70 - 210mm zoom. Vivitar TX 300mm telephoto.

The basic problems of photographing karts are that they are small, fast - and they bounce! To overcome these problems you must use a telephoto lens (anything longer than 300mm tends to become unwieldy), the fastest possible shutter speed (never less than 1/500ths) and the



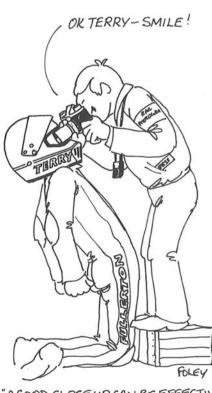


Top: high magnification makes it more difficult to get the subject in focus - in this case, a fraction of a second's delay would have made the difference. Bottom: Less magnification gives a greater depth of focus (Photos: J. Pudney)

continued . . .

Today virtually all the thinking is done for you, because of the "automatic" mode which is available on most good quality cameras, which means you literally point, focus, and shoot. I must admit that on the camera I use - a Canon A1, which is reckoned to be one of the best 35mm models available - there are 5 modes, 4 of which I totally ignore all the time! Yes, I use my camera solely on automatic. With the A1 this means that having set the film speed, and lens to auto, when you look through the viewfinder, L.E.D.'s read out what the meter in the camera measures the light to be, and literally tells you if you are over or under exposing your shot. There is a facility on the A1, indeed on most cameras, where you can force the exposure on or back to compensate if there is too much light or indeed if it is too dark. In other words, with a little bit of practice anyone can get used to the average automatic 35mm camera.

As far as I am concerned, the most important factors in karting photography are the lenses available, and correct positioning for the shot. I carry four lenses - 1 fixed focal length and 3 "A GOOD CLOSE UP CAN BE EFFECTIVE"



telephoto zoom - and all are made by Tamron, a proprietary lens manufacturer. Here I must digress to say that with few exceptions, one must use a 35mm camera for karting photography - any other format simply will not give you the availability of lenses to get close enough to the action, unless you go for the large format, unwieldy and generally hugely expensive Hasselblad type of camera.

When you have obtained your camera, the choice of available lenses is quite dazzling. As a rule of thumb I would advise you to buy just the camera body, without lens, the choice of body really being what suits your pocket and what feels right. Olympus, Canon, Pentax - it doesn't really matter, they are all good. When it comes to the lens, most cameras are supplied with a 35 or 50mm general lens which is good for snap shots, but generally pretty useless for karting. As the camera manufacturers own lenses, although usually optically very good are generally more expensive than proprietary lenses, starting with a zoom from a proprietary manufacturer like Tamron, Vivitar or Hoya. My own lenses range from a 28mm wide angle lens (not very useful), a 35 - 75mm zoom (very useful for pit and short range work), an 85 -250mm zoom (my most useful lens for race work) and finally a huge, heavy and very impressive looking 300 - 500mm zoom, which is really only good for long circuit and big distance work in good weather conditions. A 75 -250mm zoom lens is probably the most useful lens for karting. Optically, any zoom lens will never be as perfect as a "fixed" lens, but we are not talking about high quality studio work so in most cases a zoom will give fine results.

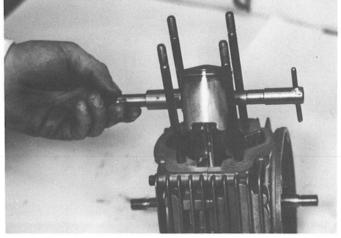
The other accessory I find most useful is the motor drive. This simply avoids time consuming winding on - just keep your finger on the shutter button and the motor winder does it for you. I virtually never use the motor drive to its full effect because at maximum speed it can consume up to 5 frames per second and that doesn't half get through film quick!! . . . but if you can afford it, a motor drive or power winder is a useful accessory.

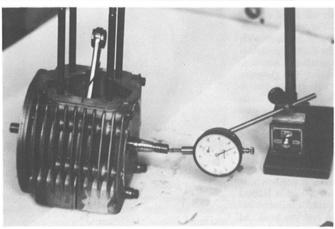
When it comes to the actual photography, I reckon that's all down to common sense. Whenever I arrive at a track I look for parts that will produce some interesting shots. Is there a bump where people get airborne?, a corner which chucks people onto two wheels?, a corner which encourages "tail out" braking, or any facet of the track which is unusual or spectacular - that's the place to take your shots. Try to avoid repeating the same shots you or someone else took at the previous meeting and remember, by moving only a few feet you can change the whole aspect of a particular corner. I try to make my photos interesting and unusual, and I would always advocate that the ability to obtain good interesting shots is much more satisfying and useful than obtaining optically perfect boring shots.

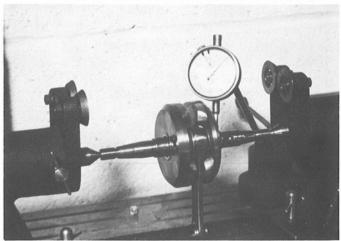
Good pictures tell a story! . . .

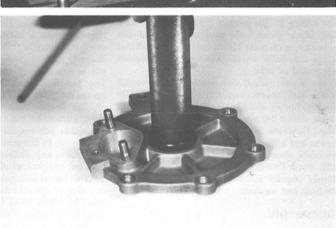


TECHNICAL









Top left: a gudgeon puller is a very useful tool. Right: checking of crankshaft alignment is best left to the experts. Bottom left: checking crankshaft end float. Right: the correct way to fit an oil seal,

continued . . .

are best used for removing the rotor from the the bearing drops out. crankshaft. A Motoplat holder allows the re-Motoplat puller will remove the rotor.

The top end of the motor is now stripped. cylinder head lifted off, followed by the barrel levered out very gently. itself. It is best to hold the piston as the barrel it when the barrel comes completely off. Piston assembly, or replacement. rings are carefully and evenly removed using both hands, and a pair of fine-nosed pliers What parts should be replaced? enables the removal of both gudgeon pin circlips. The gudgeon pin itself is best removed Every time an engine is stripped, the oil seals, plug - Redhill Racing can supply these). The gudgeon pin which is left in the small end assembly after the gudgeon itself has been removed. This allows the piston to be slid off, without outer edge of the seal. small end washers and needle rollers going everywhere. Once the piston has been removed, plastic containers.

crankshaft nut having been refitted to protect very fine file or a stone.

the thread. The main bearings remain inside their respective crankcase halves. These should (10 meetings) running - especially the ones only be removed if it is planned to change them with a fibre cage. The bronzed or other caged during the rebuild. This is done by heating the bearings may need to be changed a little before cases either in an oven or with a gas torch until that. Either type may need to be changed be-

taining nut to be undone, and then, again, a they are a relatively cheap item and worn ones. Any sign of grittiness and restriction to turning can impair performance considerably, the new should result in the bearing being replaced. This breed of rubberised outer circumferences on is especially the case after the engine has been The head/barrel retaining nuts are undone, the seals means that these can be quite easily

Before going any further all the parts should is removed to stop any likelihood of damage to be carefully cleaned for inspection, and then re-

with a proper gudgeon pin puller (commercial gaskets, piston circlips, and possibly piston rings, should be replaced. The oil seals, if a puller usually also incorporates a small dummy suitable sized round bar is not available, can be refitted using only hand pressure with a suitable sized socket which pushes evenly around the

Although as stated above, piston rings are replaced during a major rebuild, it is not absothe small end washers and needle rollers can be lutely necessary to replace them after every themselves removed and put in one of your meeting - although the top drivers generally do, for that little edge of performance. If fitting At this stage the engine mount must be re- new piston rings, they should be "gapped" moved and all that remains is the splitting of push them one at a time approximately an inch the crank cases. Undo the retaining bolts, and in down the bore and measure the gap between most cases the crankcase halves will come apart the ends with a feeler gauge - this should be a by hand, especially if the engine has been run minimum of 3 thou, but in any case not more for some time. If the crankshaft is tight in the than 12 thou for optimum performance. Any main bearings, the end of the crankshaft should adjustment if necessary can be made by very be lightly tapped with a copper hammer, the carefully filing the ends of the ring with either a

Main bearings should do a good ten hours fore this time, this can be gauged by whether Oil seals are generally always replaced as the bearing still turns perfectly freely or not. used in wet weather racing - water is very hard on the engine, especially on the bearings and quite often they will need to be changed after use in the wet.

> The same could be said of the big end assembly. Normally Mark would change this on heavily worked engines every three hours (3 meetings) of running, although many Club level drivers run quite happily up to six hours. The stripping of the engine above did not include splitting of the actual crankshaft as this is very much a specialist job and should really be done by someone with the correct press etc., for the job. Whilst you have the crank out of the engine, even if the big end is not being replaced, it is a good idea to have the crankshaft checked for trueness. The con rod itself should always do a good six hours running (6 meetings) although again some people seem to leave them in quite a bit longer.

Perhaps the most critical part to be examined during the strip down is the piston itself. Check for blow-by (burnt carbon down the side of the piston due to gases blowing by the piston rings) and cracks in the skirt. A magnifying glass is a handy thing to assist this latter check. Unless the engine has been run in the wet. Mark will leave a piston in an engine, assuming there are no cracks or serious blow-by, for up to six

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One thing that you must always remember is that kart racing is dangerous and that watching the racing through a camera lens does distort what is actually happening, making you feel remote from the danger. Obviously, to get good shots, one has to get to places on a track not normally open to spectators, but do always remember to try to get away from obvious danger spots - the areas into which karts may be thrown if they get involved in an accident on a given corner. Many is the time I have put down my camera only to find a kart upside down literally at my feet - and I haven't even noticed the incident as I was concentrating on focussing on something else! So do be careful.

Something else you must always do if you want to go wandering around the infield is to seek the permission of the Clerk of the Course and always sign the indemnity sheet. If you take the trouble to cover these basic courtesies vou will find yourself welcome back - not otherwise.

When it comes to film I use a lot of black and white for the inside contents of the magazine and colour slide for front cover attempts. I don't attempt to develop my own film, although I would like to, but have them made up into contact sheets i.e. small rough photos the same As a rule of thumb the faster the film the size as the film on one sheet of paper, from which you can pick out the best shots for en- proving all the time and a 400ASA film will largement. If you are taking photos for your give you perfectly adequate results, although if own pleasure, stick to colour print, but if you fancy getting your photos published, black and white is easier. Incidentally, you can always tell those photographers who develop their own not so critical as development is easier and film rather than going through a general development tank, like mine, with hundreds of others - just look at the quality of Dennis Callingham's or Dave Smith's photos compared with mine!

you use a "fast" film, 400ASA being the norm. shooting!!



without the benefit of a zoom lens.

"grainier" the print, but film quality is imyou can get away with "slower" 200ASA film. your shots will have more "depth". This is for colour film. With black and white, the speed is more flexible.

Well you can't learn all about photography just by reading articles and books - you've got to get out there and have a go, learning by your mistakes. One thing's for sure - you are As most karting photographs are of fast certain to get a lot of pleasure out of your moving machines it is logical to assume that camera, given practice and perseverance. Good Editor's note: Photographic contributions, especially of National status events are always welcome, as soon as possible after the event, for possible inclusion in articles. We even pay a small reproduction fee for those used! ...

Black and white prints can be submitted in virtually any size and shape, although 7" x 5" are preferred. The best colour transparencies, for front cover use, are taken in "poster" fashion - with the camera held so that the horizontal border of the frame is shorter than the vertical.

Contributors who wish their prints returned should enclose a stamped, addressed

Good clickin'...



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HOURS OF BUSINESS: MON.-FRI.

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TECHNICAL

Basic 100cc Strip

With the new season about to really get under way and many 100cc drivers' thoughts turning to the possible rebuild and renovation of their engines. it seemed like a good idea to compile an article outlining basic stripping, checking and rebuilding of the 100cc engine - all the various makes are pretty well similar, so what follows should apply fairly well to all models. We approached Mark Barnard of Redhill Racing to observe the servicing process on a customer's engine. In this case it was a Parilla TT23.

Stripping The Engine

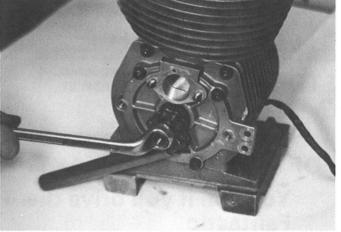
can be mounted and swivelled easily to work on is available, Mark at this stage leaves the engine mount on as it provides a stable base and keeps the engine upright.

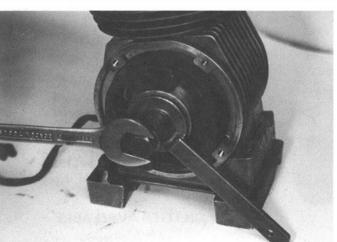
The drive sprocket is now removed and this requires the use of a couple of special tools. A chain wrench is used to hold the crankshaft steady whilst the retaining nut is first undone and then a proprietary sprocket puller is used to remove the sprocket itself. Carefully lever out the sprocket locating key. For those unfamiliar with their engine, it pays to have a number of small plastic containers available to keep the various groupings of parts together. It all makes for easier reassembly in the long run! With the drive sprocket now removed, the rotary valve cover can be taken off. Undo the allen bolts (usually 6 or 7) and carefully pull the valve cover off. The rotary valve itself can now be seen. At this stage it is worth noting care-The first stage of the tear down is to remove valve and its drive collar which can then be ing the drive collar itself to slide off. Sometimes the accessories from around the engine. This matched upon reassembly. Those preferring not these can be just a little tight, requiring very means such basic things as the exhaust elbow, to mark the valve can note the position on the gentle leverage to remove it. the spark plug from the head, and the coil and valve in relation to the piston. For example, its mounting bracket. Quite often the exhaust when the piston is on its way down and about tion side and remove the ignition system. The elbow nuts are fairly difficult to gain access to to uncover the exhaust port, you should find stator is the outside section which is bolted to - Mark prefers to fit the extended elbow nuts that the valve is about to close over the inlet the crankcases. By undoing the three retaining which he makes up specially for the job. Unless port. On removing the valve, you will also often bolts, this can be removed. Again, special tools one of those bench mounts to which an engine find the serial number etched on the inner side.

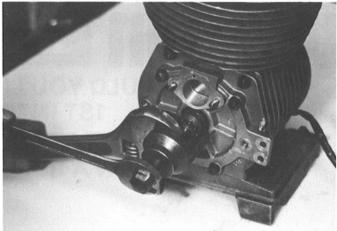
fully the position of the valve, as in some en- Obviously this helps ensure that the valve is gines it is quite possible to reassemble it in a not reassembled round the wrong way. The rototally incorrect position. Some people like to tary valve drive collar is usually retained on the lightly mark a point on the inner part of the crankshaft by a circlip which is removed, allow-

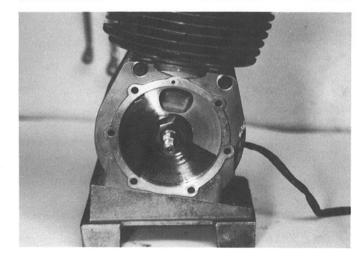
We now turn the engine round to the igni-

Top: use a chain wrench to help undo the sprocket nut (left) and a puller to remove the sprocket (right). Bottom: A Motoplat holder and puller aid removal of the rotor (left). Right: note the position of the rotary valve with the piston at top dead centre.









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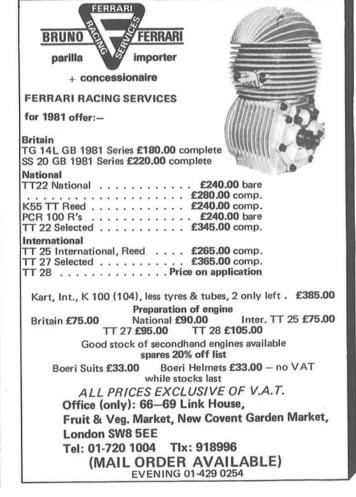
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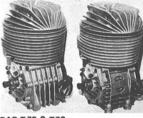
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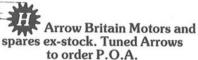
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March 1981

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All-African CIK Champs

South Africa's first attempt at staging a World Class event proved to be a big success (although one can hardly call the previous three British tours to this country failures). The C.I.K. OPEN ALL AFRICA Championships embraced the two International classes, namely A and E for 100 and 250cc machines. There were 29 entrants in class E - 2 from Sweden including European Champion Lennart Bohlin: 7 drivers from England led by former World Cup Champion, Dave Buttigleg; 3 from Zimbabwe and the rest, 17, from the host country, South Africa. In the Intercontinental A class there were 37 entrants with 3 from Austria led by European Champion Toni Zoserl; 2 from Sweden including Lars Forsman; Cathy Muller from France, Heli Brandhofer from Germany, 1 Portuguese and 2 English drivers. Then closer to home, there were 7 from Zimbabwe and 20 from South Africa.

The Zwartkop Raceway is situated between the two principal cities in S.A., Johannesburg and Pretoria, and is almost 2000m above sea level. The class A circuit is 1073 metres in length and the class E circuit is 984 metres long.

Race days were scheduled for the 16 and 17 of January with practice from the Monday before. Conditions were perfect if you liked heat, as the temperatures averaged 32 degrees C over the period – a great difference from the January cold in Europe with minus temperature read-

During unofficial practice the lap records took a hiding with Zoserl, Forsman, Muller and Skoghag getting into the low 48 second bracket (the record being 49.19), the leading South Africans being Taylor and Baron, The 250 lap record of 31.80 also fell unofficially with South African Irving in at 31.10 with Bohlin and Rogers also under the record.

The first official day dawned and kicked off with the decibel tests and official lap timing. In the 100 class. Zoserl was out on his own at 48.11 seconds followed by Forsman (48.50), Frederick Skoghag (48.84), Taylor (49.11),

was 7th best at 49.26, Carlheinz Peters 12th 48.63. at 50.09 and Brandhofer 13th at 50.35. Only one competitor had a penalty time (of 1.6 CLASS "E INTERCONTINENTAL" - 250cc seconds) added to his lap for exceeding the Heat 1

Springbok, Derick Irving driving his Motocycle RSA Centurion Taifun/Yamaha to a new lap best drive then came from Derek Rogers, 6th record of 31.65 followed by Derek Rogers on at one time to take the lead on lap 10 of the 12 31.68, Penney (32.04), Bohlin (32.08), Cape (32.34). Meyer (32.58) and Kamp (32.60). Dave Buttigieg was 12th at 32.98 and Lars Best lap to Rogers at 32.35. Johansson 10th on 32.75. The decibel readings? are another story...

So the stage was set for some very good heat racing in the afternoon

CLASS "A INTERCONTINENTAL" - 100cc

Zoserl kicked off with a comfortable win in the A vs B group from Forsman and also had the fastest lap at 48.26. They were followed by, initially Baron before he broke a motor and eventually Brandhofer into 3rd place.

The second heat had young Skoghag win easily and also best lap at 49.64 from a cool Taylor, then Peters, Muller, Blankfield and Line who were really mixing it with some great racing.

Forsman and Skoghag made it an easy Swedish 1-2 with Muller third once she had shaken off Blankfield. Best lap to Forsman at 49.06. Then the drama as Skoghag weighed in 1 kilo underweight - he had lost his ballast weight during the race and under the C.I.K. competition rules was disqualified from the event. . .

Again Lars Forsman comfortably from a safe Taylor then a battling Peters, Mills and Oates. Fastest lap to the winner at 48.96. Heat 5

Toni Zoserl continued his excellent form by opening a big gap on Baron and Brandhofer. Then on lap 6 of the 10 lap race Zoserl's motor went sick and Baron and Brandhofer got through. Zoserl hung on to them and slipped back into the lead on the last lap when Baron and Brandhofer tangled slightly - obviously watching each other too closely and forgetting about Zoserl! Peters was 4th and Zoserl had the best lap time of 48.95.

The final heat of the day again to Toni Zoserl

Baron (49,20) and Oates (49,20), Cathy Muller distant Brandhofer - best lap to Zoserl at

South Africa's big hope, Derick Irving, led from The 250 competitors saw South African pole position for 5 laps before breaking a stud in the motor and letting the pack through. The lap race. He was followed by Meyer, Johansson, Edwards and then a very disappointed Irving. Heat 2

Our first glimpse of Lennart Bohlin in action. He made no mistake in taking a fine win over the rest led by South Africans Penney, Kamp, Wingels and Robertson. Best lap also to Bohlin

Back to Rogers with a clean win over a hard charging Meyer, Penney, Kamp and Wingels. Best lap also to Rogers at 32.03.

Heat 4

Now the Bohlin/Rogers clash that was really worth watching. It went to the Swede after a race-long struggle. Third was Buttigieg regaining some lost form, then Fink and Edwards from Zimbabwe. Best lap from Bohlin at 32.04.



gieg (2). Above: Zoserl leads Forsman, Barry Kamp. Taylor, and Cathy Muller in the 100cc event.

All Bohlin for a neat victory over Buttigieg by a big margin. It was in fact Irving who led for 2 laps before his replaced motor seized. Third was Cape then Fink. Fastest lap to Bohlin at Heat 6

The final heat was dominated by South Africans in the absence of the main European contenders. It was won by Penney from Kamp, Steer (GB) and Smith. Best lap to Penney at 32.61.

THE FINALS

The three finals on the Saturday seemed set for exciting racing. Bohlin and Rogers shared the front row of the 250 event followed by 2 rows of South Africans - Penney and Kamp, Meyer and Wingels with Dave Buttigieg uncharacteristically on the 4th row and Irving on the

The 100 drivers had Zoserl and Forsman in front, from Muller and Peters. The third row battle. Still further back a great struggle was in contained Brandhofer and Taylor then Baron progress between Brandhofer, Peters, Baron and and Blankfield. Baron and Peters got to the same point on the

Class A - 100cc

FIRST FINAL. The first, the second and third re-start. Baron got going first to eventually finals followed the pattern established in timed finish 7th and Peters 13th. In front however, practice on the Friday morning in that the first Zoserl was making no mistake and Forsman two positions remained intact throughout. Toni could only wait in vain. Cathy Muller found a SECOND FINAL. Irving again appeared on the Zoserl was quickest - he won all his heats and way round Taylor with 2 laps to go and that all the finals. Lars Forsman was next quickest - was that. he won two out of his three heats and placed second in all three finals. SECOND FINAL. This final did in fact take

pletion of one lap (984 metres) the order was Bohlin, Rogers, and Irving! . . . Ellis actually Looking at the first final over 12 laps howmeant what he had said. At the end of two laps ever, Zoserl took the lead followed by Forsman. Bohlin and Irving were side by side over the line Behind them Taylor and Muller were locked in with the South African taking the lead for a brief moment in the "loop" before his motor seized - a short lived moment of glory that had

Blankfield. Then entering lap 4, Arthur Oates, the 5000 crowd on its feet in excitement. After Irving's exit, the race settled down intrack at the same time, with all three having to to a pattern with Bohlin cruising in from Rogers then Penney, a chasing Dave Buttigieg 4th, Meyer and Cape.

track, this time at the back of the grid. At the flag there was again a jostling for positions before Bohlin emerged as the leader. Rogers was next and then the pack. By the end of two laps place in the rain - more like a dampness as a Irving was 4th behind Penney, only to again retire at an interesting point. This left the top three secure to the end - Bohlin, Rogers, and slippery because all drivers stayed on slicks. Penney again the leading South African. It also Forsman actually took the lead from Zoserl but gave the C.I.K. Open All Africa Class E Title to lost it after 2 laps when he left the track after the likeable Super-Swede, Lennart Bohlin,

THIRD FINAL. The rain period was so sudden "safe" running Zoserl. Then another mistake at and so short that it only affected a portion of the esses put paid to any chance he may have the Class A 2nd final and no other event. The had and Zoserl took the C.I.K. All Africa Class third final for Class E almost ended in tragedy A Title. Behind them it was karts all over the as with one lap to go in the 15 lap event, with show, on and off the circuit. Third eventually Bohlin again in front and in command, an ambulance shot across the circuit (under orders presumably), to attend to a driver who had emergency action and only his skill avoided a flag Penney was once more third, with Theo

THIRD FINAL. More of a show race for come off at the loop. This had Bohlin taking Zoserl as he stamped his authority on the event. Second again to Forsman with Cathy Muller a nasty moment. It allowed Rogers to close on to creditable third. Muller had to first dispose of a his bumper, but no further. Behind them at the hard driving Taylor before she got third comfortably. Baron hung on to Taylor but had to Kamp up next. be content with 5th followed by Line and Peters.

freak grey cloud dumped a bit of cooling liquid

on the parched crowd. It made things a little

a big slide - he got back safely without stopping

and was soon second again and gaining on a

Rogers is pressed hard by Buttigieg.

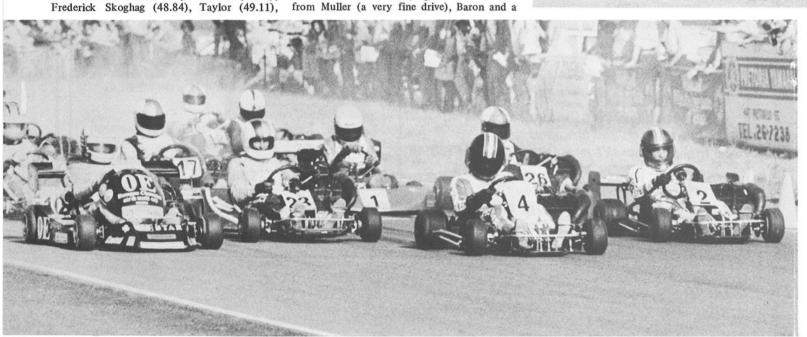
CLASS E - 250cc

went to Peters.

FIRST FINAL. Anthony Ellis, Derick Irving's mechanic, told me to watch Derick in this final. He was starting in 14th place on the 7th row Left: the 250 field blasts off for the third and meant to be in front before half the race final under the scorching sun - Bohlin (OE), was run. Well, in pole sat Lennart Bohlin with Brian Penney (23), Lars Johannson (1), Derek Derek Rogers alongside. Behind them, two vating factor in making the race one to remem-Rogers (4), Tony Cape (26), and Dave Butti-South Africans in Brian Penney and Theo

At the drop of the flag it was Rogers for a sanctioned meeting.

A fantastic event in glorious weather watched by a large crowd as well as a live television audience. Well managed and professionally executed. BP Petroleum Products and Yamaha were the two names really responsible for making the entire venture a reality and one man. namely the Chairman of The Rand Kart and Motorcycle Club, Piet Meyer, the single motiber. He and his dedicated band of helpers can take the credit for South Africa's first C.I.K.



moment belo					got ar	lead. At the com-	Rob Coetze		
FIN	AL RESULTS	C.I.K. Al	LL AFRICAN CHA	MPION	SHII	PS			
Class E (250cc)			Class A (100cc)			* A CALL STATE OF THE STATE OF			
1.	Lennart Bohlin	(S)	Star/Yamaha	0 Pts.	1.	Toni Zoserl	(A)	Birel/Yamaha	0 Pts
2.	Derek Rogers	(GB)	Zip/Yamaha	4 Pts.	2.	Lars Forsman	(S)	Birel/Parilla	4 Pts
3.	Brian Penney	(ZA)	Barlotti/Yamaha	6 Pts.	3.	Cathy Muller	(F)	Hutless/Yamaha	6 Pts
4.	Dave Buttigieg	(GB)	Zip/Yamaha	8 Pts.	4.	Barry Taylor	(ZA)	Hutless/Petry	8 Pts
5.	Hennie Meyer	(ZA)	Zip/Yamaha	12 Pts.	5.	Carlheinz Peters	(ZA)	Hutless/Yamaha	10 Pts
6.	Tony Cape	(ZA)	Zip/Yamaha	12 Pts.	6.	Clive Baron	(ZA)	Birel/Petry	12 Pts
7.	Herbie Edwards	(Zim.)	Deavinson/Yamaha	13 Pts.	7.	Anthony Figueiredo	(Zim.)	Birel/Parilla	12 Pts
8.	Lars Johansson	(S)	Deavinson/Rotax	14 Pts.	8.	Heli Brandhofer	(G)	Hutless/Petry	13 Pts
9.	Danny Mulder	(ZA)	Taifun/Yamaha	17 Pts.	9.	Andy Quinn	(Zim.)	Birel/Yamaha	16 Pts
10.	John Robertson	(ZA)	Star/Yamaha	20 Pts.	10.	Hubert Frisch	(A)	Birel/Parilla	19 Pts