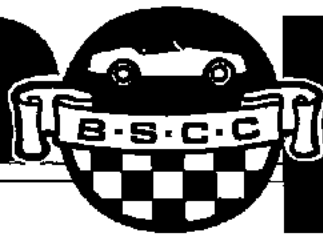


BRISPORT



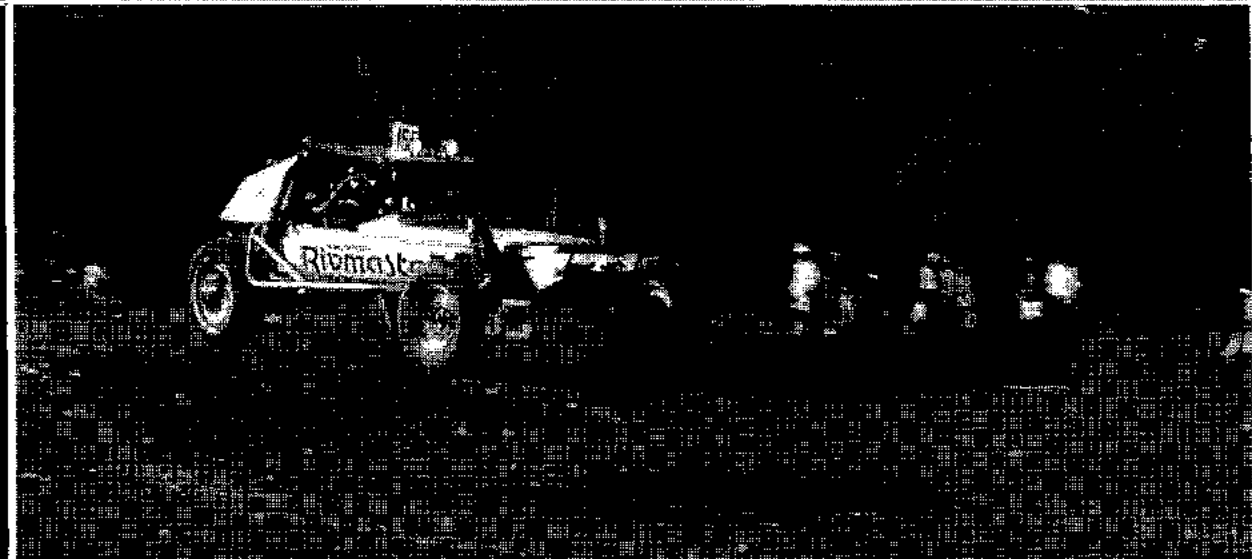
BRISBANE SPORTING CAR CLUB MAGAZINE

RALLY



RALLY

OFF
ROAD



OFF
ROAD

MOTOR
KHANA



MOTOR
KHANA

Taste the Performance

The 205 GTI from Peugeot, winner of the 1985 and 1986 World Rally Championship. The first of its kind in Australia. The best of its kind in the world.



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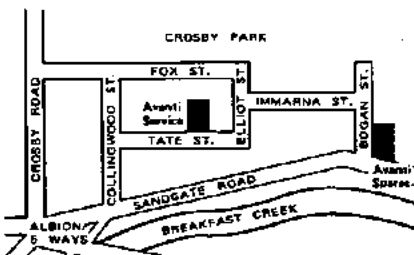
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PRESIDENT'S NOTES

Well, the 1992 Cleanaway Rally Queensland has been run and won. From all accounts the event was judged a tremendous success and the organising team headed by the Director, Errol Bailey, should be justifiably proud of the result. Errol will be the first to admit that there were some hiccups in the event but when you consider that the team only had 12 weeks to organise the event; there was no event sponsor; and it was the first time that "A to A Timing" had been used by the organisers (and most of the competitors), it was a tremendous result.

The CAMS Observer also thought that the event was extremely well run and awarded it a score of 163 (out of a possible 200 points); the previous best round being the Festival State Rally with 149 points.

Errol Bailey and the team are committed to organising the event again for next year and if a Series Sponsor can be found to inject some money into the Australian Rally Championship for 1993 the event should be even better.

For those of you who have visited the club rooms over the least few weeks you will have noticed that the inside of the building looks like a disaster area. We are currently renovating Esme's office to provide her with more useable space and better working conditions, and this has meant emptying the entire contents of the office into the Clubroom (including a route book for the "1978 Lutwyche Shopping Village Rally"!!!).

The remodelling of the office has been on the agenda for some time however it had to wait until after the ARC to minimise the disruption caused.

Hopefully the work will be completed in the near future and everything can get back to normal.

Rally Australia is due to be run in a few weeks and it promises to be a great event. Of particular interest will be the Daihatsu One Make Series being contested by the club's John Goasdoue and Neal Wesche, and Craig Lee and Kerry Hollington. Good luck guys!

I will be over in Western Australia with John Goasdoue's team "Mosportz" and hope to give you all the news when I get back.

Eye for now,

Alan Bates.

Do you need staff or employment? Why not place a free advertisement in the Club magazine. We send out over 300 copies each month to members and other clubs.

POSITIONS VACANT

POSITIONS WANTED

Assistant Admin. Officer needs full time employment after 7th September.

Ten years experience in small business management covering computer generated invoicing, accounts, customer liaison, service department control.

Eight months as Medical Receptionist for a 6 doctor practice with some experience of assisting in minor surgical procedures and ECG. Stock control, records, accounts.

A full time position on the Southside would be preferable but would look at part time.

Contact Trish on 391 8881 each day except Wednesday 9.30 to 2.30, or at home on 2091432.

DO YOU OWN A FUEL INJECTED ROAD, RALLY, RACE
OR OFF ROAD CAR?

IF SO, DIRTY INJECTORS COULD BE REDUCING YOUR
CAR'S PERFORMANCE

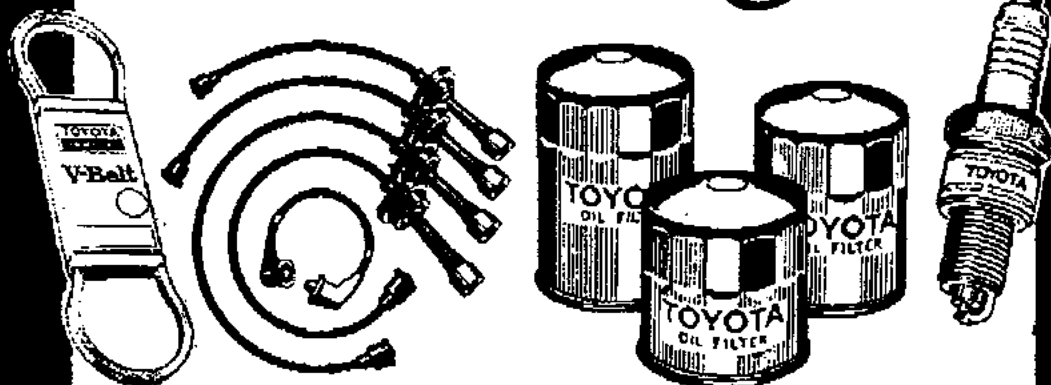
WE OFFER A COMPLETE INJECTOR CLEANING
SERVICE USING THE LATEST "NEW AGE"

2001 UNIT.

OUR SERVICE INCLUDES: *ULTRA SOUND CLEANING*
FLOW RATE CHECK
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LEAK DOWN TESTING
RESISTANCE CHECK

ROSS PERRY AUTOMOTIVE SERVICES
25 QUEENS ROAD, EVERTON HILLS
07 353 3939 07 353 3200

Keep the feeling!



MOTORAMA
TOYOTA
GENUINE PARTS



Well Done!!

Colleen's following in her parents' tracks

PETROL must run in the veins of the Smith family of Loganlea.

While Ken and Laureen Smith run around the wilds of Australia in their Holden Rodeo off-roader, daughter Colleen has been doing her bit in a Toyota Corolla modified for rallying.

Last weekend Colleen swapped the Corolla's driving seat for the navigator's chair in Ian Bailey's class three Holden Gemini in the Australian and Queensland Rally Championship rounds.

Bailey, from Moree, invited Colleen do to the co-driving chores when his regular navigator was unable to make the meeting.

In her first event other than a club meeting, she guided her pilot into 20th outright from a field of 75 starters and class wins in both championship events.

I can't wait to see what she can do strapped into a full bore rally machine.

□□□



On the Grid

with BRENT DAVISON

Motorscene



Colleen Smith warmed the navigator's chair in Ian Bailey's class three Gemini.

RALLY CHAMPIONSHIP

| POS | NAME | MAR | JUL | TOT |
|-----|---------------------|-----|-----|-----|
| 01 | JOHN GOASDOUE | 09 | 07 | 16 |
| 02 | DEL GARRETT | 07 | 06 | 13 |
| | TONY KABEL | 07 | 06 | 13 |
| 04 | BARRY NEUENDORFF | 08 | 04 | 12 |
| 05 | CRAIG LEE | 11 | | 11 |
| | GEORGE KAHLER | | 11 | 11 |
| | HUGH REARDON-SMITH | 11 | | 11 |
| | KERRIE REID | 11 | | 11 |
| | LOFTY DREWS | | 11 | 11 |
| | WARREN CARRIGAN | 11 | | 11 |
| 11 | MAL CLARKE | | 10 | 10 |
| 12 | BRUCE DUMMETT | 09 | | 09 |
| | COLLEEN SMITH | 01 | 08 | 09 |
| | TOM SMITH | | 09 | 09 |
| 15 | IAN BAILEY | | 08 | 08 |
| | RODNEY CROSS | 05 | 03 | 08 |
| | TONY McDADE | 05 | 03 | 08 |
| 18 | NEAL WESCHE | | 07 | 07 |
| 19 | IAN REDDIEK | 06 | | 06 |
| 20 | NOEL PHILP | | 05 | 05 |
| | VIV GEES | | 05 | 05 |
| 22 | BILL WILSON | 04 | | 04 |
| | JEFF HAYNES | 04 | | 04 |
| 24 | ALAN CLUNES | 01 | 02 | 03 |
| | BRUCE DAWSON | 03 | | 03 |
| | CHERYL McRINNON | 03 | | 03 |
| 27 | ANDREW HAMILTON | 01 | 01 | 02 |
| | ANDREW JOHNSTONE | 01 | 01 | 02 |
| | DAVE AMBROSE | 02 | | 02 |
| | JOHN PINDER | 01 | 01 | 02 |
| | JOHN ROGERS | 01 | 01 | 02 |
| | MERYL ROGERS | 01 | 01 | 02 |
| | MIKE NEELY | 01 | 01 | 02 |
| | ROB BEKKER | 01 | 01 | 02 |
| | RON VAN OPSTAL | 02 | | 02 |
| | STEVE CHRISTENSEN | 02 | | 02 |
| | TIM CHARALAMBOUS | 01 | 01 | 02 |
| | TONY BEST | 01 | 01 | 02 |
| | WARREN TEGG | 02 | | 02 |
| 40 | BEN WATKINS | 01 | | 01 |
| | BRIAN BOARDMAN | 01 | | 01 |
| | BRIAN EVERITT | 01 | | 01 |
| | BRUCE FULLERTON | | 01 | 01 |
| | CHRIS MICHEL | | 01 | 01 |
| | CHRIS SHAW | 01 | | 01 |
| | DAVID LAPWORTH | 01 | | 01 |
| | GARY ATKINSON | 01 | | 01 |
| | GLEN DUTHIE | 01 | | 01 |
| | GREG BERNARD | 01 | | 01 |
| | HANK ROJEK | 01 | | 01 |
| | JOHN PETERS | 01 | | 01 |
| | MARTIN DENHAM | 01 | | 01 |
| | NEIL MICHEL | | 01 | 01 |
| | PAUL BRELSFORD | 01 | | 01 |
| | PETER CARRUTHERS | | 01 | 01 |
| | RICHARD COLLINGWOOD | 01 | | 01 |
| | ROBERT PIGEON | 01 | | 01 |
| | SIMON RICHMOND | 01 | | 01 |
| | STEPHEN KAKAVAS | 01 | | 01 |
| | STEPHEN VERVOORN | 01 | | 01 |
| | TERRY BOARDMAN | 01 | | 01 |
| | TIM COLLINGWOOD | 01 | | 01 |
| | TONY HOWARD | 01 | | 01 |

OFF-ROAD CHAMPIONSHIP

| POS | NAME | FEB | MAR | TOT |
|-----|--------------------|-----|-----|-----|
| 01 | LEDD MacMILLAN | 11 | 19 | 30 |
| | LINDSAY EVELEIGH | 11 | 19 | 30 |
| | MAURKEN ROSE | | 11 | 11 |
| | TERRY ROSE | | 11 | 11 |
| | LAURENCE SVENSON | 10 | | 10 |
| | DERRICK KENNEDY | | 09 | 09 |
| | KAREN VAN DER HAAR | 09 | | 09 |
| | KEITH HONOUR | 08 | 01 | 09 |
| | KEN SMITH | | 09 | 09 |
| | LAUREEN SMITH | | 09 | 09 |
| | MARTIN GIBSON | 09 | | 09 |
| | RON VAN DER HAAR | 09 | | 09 |
| | J HARTNETT | | 08 | 08 |
| | R HARTNETT | | 08 | 08 |
| | CHRIS CAVE | 07 | | 07 |
| | M WATSON | | 07 | 07 |
| | R WATSON | | 07 | 07 |
| 18 | CLINT COOPER | 06 | | 06 |
| | DONALD MACARTHUR | | 06 | 06 |
| | LINDSAY COOPER | 06 | | 06 |
| | RUSSELL MACARTHUR | | 06 | 06 |
| 22 | ALAN NICOLL | 05 | | 05 |
| | BEVERLEY BASHAM | | 05 | 05 |
| | GREG BERNARD | 02 | 03 | 05 |
| | GREG NICOLL | 05 | | 05 |
| | M BASHAM | | 05 | 05 |
| | B MASSEY | | 04 | 04 |
| | BARRY WILLETT | 04 | | 04 |
| | J MASSEY | | 04 | 04 |
| | STEVE WILLETT | 04 | | 04 |
| | ALAN SOLOMON | 01 | 02 | 03 |
| | CHRIS SHAW | | 03 | 03 |
| | DARREN SOLOMON | 01 | 02 | 03 |
| | GORDON BAILLIE | 03 | | 03 |
| | GRANT WHITE | 03 | | 03 |
| | NEV TAYLOR | 01 | 01 | 02 |
| | ROBERT OXLEY | 01 | 01 | 02 |
| | D WILLIAMSON | | 01 | 01 |
| | DARYL COLE | 01 | | 01 |
| | JACQUI SANDBERG | 01 | | 01 |
| | JOHN DARE | 01 | | 01 |
| | M TWINE | | 01 | 01 |
| | ROBERT TAYLOR | 01 | | 01 |
| | TONY FEHLHABER | 01 | | 01 |

MOTORKHANA CHAMPIONSHIP

| POS | NAME | FEB | MAR | APR | MAY | JUN | JUL | AUG | TOT |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 01 | SHAUN GRAY | 11 | | | 11 | 11 | 11 | 11 | 55 |
| 02 | CHRIS SHIELDS | 07 | 10 | | 09 | 08 | 09 | 11 | 53 |
| 03 | KEVIN BALCH | 09 | 11 | | 10 | | 10 | 09 | 49 |
| 04 | MICK SHIELDS | 05 | 09 | | 08 | 10 | 07 | 08 | 47 |
| 05 | TROY LINDLEY | 10 | 08 | | | 04 | 08 | 10 | 40 |
| 06 | GARY McLANE | 08 | 07 | | 05 | 07 | 11 | | 39 |
| 07 | TIM ANDERSON | 06 | 05 | | 04 | 05 | 05 | 06 | 31 |
| 08 | PAUL GRAY | 11 | | | | 09 | | | 20 |
| 09 | BRIAN JONES | | | | | 06 | | 07 | 13 |
| 10 | ALAN BATES | | 11 | | | | | | 11 |
| | RAY EVANS | | | | | 11 | | | 11 |
| | TERRY BOARDMAN | | | | 11 | | | | 11 |
| 13 | ROB REDDIEK | | | | 07 | 03 | | | 10 |
| 14 | RON VAN OPSTAL | | 06 | | 03 | | | | 09 |
| 15 | IAN BREMNER | | | | | | 06 | | 06 |
| 16 | GREG BERNARD | | | | 05 | | | | 05 |
| 17 | BRUCE DAWSON | 04 | | | | | | | 04 |
| 18 | CHRIS SHAW | | | | 02 | | | | 02 |

CLUB CHAMPIONSHIP

| POS | NAME | TOT |
|-----|--------------------|-----|
| 01 | SHAUN GRAY | 22 |
| 02 | LAURENCE SVENSON | 18 |
| 03 | KEN SMITH | 15 |
| 04 | PAUL GRAY | 13 |
| 05 | RON VAN DER HAAR | 13 |
| 06 | DERICK KENNEDY | 12 |
| 07 | CHRIS SHIELDS | 11 |
| | DOUG MACMILLAN | 11 |
| | JOHN GOASDOUE | 11 |
| | LINDSAY EVELEIGH | 11 |
| | STEVIE WILLETT | 10 |
| 12 | DEL GARRETT | 10 |
| | TONY KABEL | 09 |
| 14 | DEAN TIGHE | 09 |
| | KEVIN BALCH | 09 |
| | LYNDAL PARR | 09 |
| | MAUREEN ROSE | 09 |
| 19 | TERRY ROSE | 09 |
| | BARRY NEUENDORFF | 08 |
| | COLLEEN SMITH | 08 |
| | MICHAEL COLLINS | 08 |
| | MICK SHIELDS | 08 |
| 23 | ALAN NICOLL | 07 |
| | CRAIG LEE | 07 |
| | GEORGE KAHLER | 07 |
| | GREG BERNARD | 07 |
| | GREG NICOLL | 07 |
| | HUGH REARDON-SMITH | 07 |
| | KERRIE REID | 07 |
| | LAUREEN SMITH | 07 |
| | LOFTY DREWS | 07 |
| | TROY LINDLEY | 07 |
| 34 | WARREN CARRIGAN | 06 |
| | GARY McLANE | 06 |
| | IAN GORSKI | 06 |
| | KAREN VAN DER HAAR | 06 |
| | KEITH HONOUR | 06 |
| | MARTIN GIBSON | 06 |
| | MOSS LANE | 06 |
| | ROD SAMS | 06 |
| 42 | TIM ANDERSON | 05 |
| 43 | WENDY KATTERNS | 04 |
| 44 | TERRY BOARDMAN | 03 |
| | BRIAN JONES | 03 |
| | CHRIS SHAW | 03 |
| | KENNETH PHILIP | 03 |
| 49 | RAY EVANS | 03 |
| | TONY GALLETLY | 02 |
| | ALAN BATES | 02 |
| | BRUCE DAWSON | 02 |
| | DONALD MACARTHUR | 02 |
| | GRANT WHITE | 02 |
| | GREG HORTON | 02 |
| | IAN BREWNER | 02 |
| | RON VAN OYSTAL | 02 |
| | TONY FEHLHABER | 02 |
| 57 | ALAN CLUNES | 01 |

CLUB CHAMPIONSHIP

| POS | NAME | TOT |
|-----|--------------------|-----|
| | ALAN SOLOMON | 01 |
| | ANDREW HAMILTON | 01 |
| | ANDREW JOHNSTONE | 01 |
| | B MASSEY | 01 |
| | BARRY WILLETT | 01 |
| | BEN WATKINS | 01 |
| | BEVERLEY BASHAM | 01 |
| | BILL WILSON | 01 |
| | BRETT WELLINGS | 01 |
| | BRIAN BOARDMAN | 01 |
| | BRIAN EVERITT | 01 |
| | BRUCE DUMMETT | 01 |
| | BRUCE FULLERTON | 01 |
| | CHERYL MCKINNON | 01 |
| | CHRIS APPOO | 01 |
| | CHRIS CAVE | 01 |
| | CHRIS MICHEL | 01 |
| | CLINT COOPER | 01 |
| | D WILLIMSON | 01 |
| | DANNY WILLETT | 01 |
| | DARREN SOLOMON | 01 |
| | DARYL COLE | 01 |
| | DAVE AMBROSE | 01 |
| | DAVID LAPWORTH | 01 |
| | GARY ATKINSON | 01 |
| | GLEN DUTHIE | 01 |
| | GORDON BRILLIE | 01 |
| | HANK ROJAK | 01 |
| | HELEN ROBSON-PETCH | 01 |
| | IAN BAILEY | 01 |
| | IAN REDDIE | 01 |
| | J HARINETT | 01 |
| | J MASSEY | 01 |
| | JACQUI SANDBERG | 01 |
| | JEFF HAYNES | 01 |
| | JOHN DARE | 01 |
| | JOHN MOORE | 01 |
| | JOHN PETERS | 01 |
| | JOHN PINDER | 01 |
| | JOHN ROGERS | 01 |
| | KIRSTY EVANS | 01 |
| | LES MARSHALL | 01 |
| | LINDSAY COOPER | 01 |
| | M BASHAM | 01 |
| | M TWINE | 01 |
| | M WATSON | 01 |
| | MAL CLARKE | 01 |
| | MARTIN DENHAM | 01 |
| | MATT READ | 01 |
| | MERYL ROGERS | 01 |
| | MICHAEL TAYLOR | 01 |
| | MICHELLE HENNESSY | 01 |
| | MIKE NEELY | 01 |
| | NEAL WESCHE | 01 |
| | NEIL MICHEL | 01 |
| | NEV TAYLOR | 01 |

CLUB CHAMPIONSHIP

| POS | NAME | TOT |
|-----|---------------------|-----|
| | NOEL PHILIP | 01 |
| | PAUL BRELSFORD | 01 |
| | PETER CARRUTHERS | 01 |
| | R HAKINETT | 01 |
| | R WATSON | 01 |
| | RICHARD COLLINGWOOD | 01 |
| | ROB BEKVER | 01 |
| | ROB REDDIE | 01 |
| | ROBERT OXLEY | 01 |
| | ROBERT PIDGEM | 01 |
| | ROBERT SIMPSON | 01 |
| | ROBERT TAYLOR | 01 |
| | RODNEY CROSS | 01 |
| | RUSSELL MACARTHUR | 01 |
| | SCOTT DIPROSE | 01 |
| | SEAN CONWAY | 01 |
| | SIMON RICHMOND | 01 |
| | STEPHEN KARAVAS | 01 |
| | STEPHEN VERVOORN | 01 |
| | STEVE CHRISTENSEN | 01 |
| | TIM CHARALAMBOUS | 01 |
| | TIM COLLINGWOOD | 01 |
| | TOM SMITH | 01 |
| | TONY BEST | 01 |
| | TONY GRAHAM | 01 |
| | TONY HOWARD | 01 |
| | TONY McDADE | 01 |
| | TRICH EVANS | 01 |
| | VIV GEES | 01 |
| | WARREN TEGG | 01 |

LADIES CHAMPIONSHIP

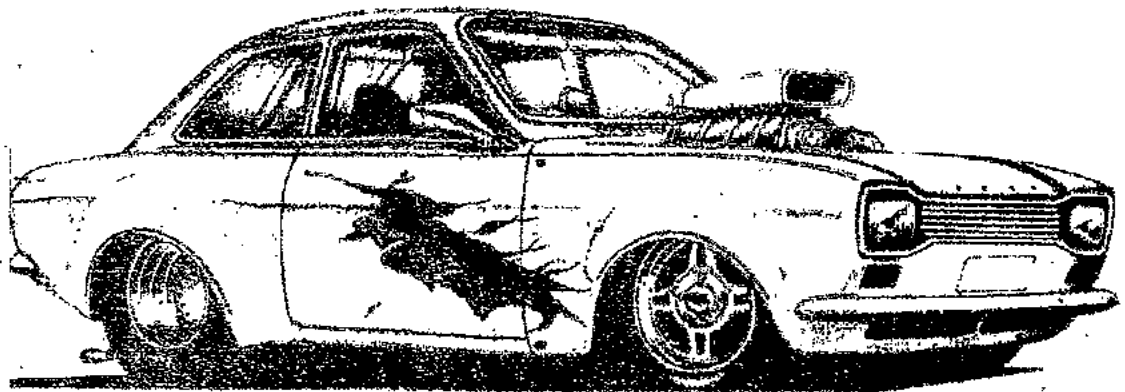
| POS | NAME | TOT |
|-----|--------------------|-----|
| 01 | COLLEEN SMITH | 19 |
| 02 | LAUREEN SMITH | 14 |
| 03 | DEL GARRETT | 11 |
| | LYNDAL PARR | 11 |
| | MAUREEN ROSE | 11 |
| 06 | KAREN VAN DER HAAR | 10 |
| | KERRIE REID | 10 |
| 08 | WENDY KATTERNS | 09 |
| 09 | BEVERLEY BASHAM | 08 |
| | CHERYL MCKINNON | 08 |
| | MICHELLE HENNESSY | 08 |
| 12 | JACQUI SANDBERG | 07 |
| | KIRSTY EVANS | 07 |
| | MERYL ROGERS | 07 |
| | TRICH EVANS | 07 |
| 16 | HELEN ROBSON-PETCH | 06 |

SPEED CHAMPIONSHIP

| POS | NAME | JAN | MAY | TOT |
|-----|------------------|-----|-----|-----|
| 01 | LAURENCE SVENSON | 10 | 11 | 21 |
| 02 | STEVE WILLETT | 08 | 05 | 13 |
| 03 | KEN SMITH | 05 | 07 | 12 |
| 04 | MICHAEL COLLINS | 11 | | 11 |
| 05 | RON VAN DER HAAR | | 10 | 10 |
| 06 | ALAN NICOLL | 09 | | 09 |
| | DERRICK KENNEDY | | 09 | 09 |
| | GREG NICOLL | | 09 | 09 |
| | MOSS LANE | | 09 | 09 |
| | ROD SAMS | | 09 | 09 |
| 11 | DONALD MACARTHUR | | 08 | 08 |
| 12 | TONY FEHLHABER | | | 07 |
| 13 | DANNY WILLETT | 06 | | 06 |
| | GREG HORTON | | | 06 |
| 15 | BRETT WELLINGS | | | 06 |
| | GRANT WHITE | | | 06 |
| 17 | JOHN MOORE | | | 06 |
| | MICHAEL TAYLOR | | | 06 |
| 19 | CHRIS APPOO | 03 | | 03 |
| | LES MARSHALL | | | 02 |

NIGHT RUN CHAMPIONSHIP

| POS | NAME | FEB | MAR | APR | MAY | JUN | JUL | AUG | TOT |
|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 01 | PAUL GRAY | 09 | 11 | 11 | 10 | 09 | 11 | 08 | 69 |
| | SHAWN GRAY | 09 | 11 | 11 | 10 | 09 | 11 | 08 | 69 |
| 03 | DEAN FIGHE | 11 | 11 | 11 | 10 | 11 | 10 | | 64 |
| | LYNDAL PARR | 11 | 11 | 11 | 10 | 11 | 10 | | 64 |
| 05 | COLLEEN SMITH | 08 | 08 | 07 | 06 | 08 | 09 | 11 | 56 |
| 06 | IAN GORSKI | 07 | 06 | | 11 | 11 | 9 | | 42 |
| 07 | WENDY KATTERNS | 07 | 06 | | 11 | 11 | | | 35 |
| 08 | GREG BERNARD | 11 | 10 | | 11 | | | | 32 |
| 09 | KENNETH PHILP | | 09 | 11 | 10 | | | | 30 |
| | TONY GALLETT | | 09 | 11 | 10 | | | | 30 |
| 11 | SEAN CONWAY | | 08 | 08 | | | 09 | | 25 |
| 12 | CHRIS SHIELDS | 06 | | | 06 | | 10 | | 22 |
| 13 | MATT READ | | 10 | 08 | | | | | 18 |
| | MICHELLE HENNHOV | | | | 07 | 11 | | | 18 |
| | TERRY BOARDMAN | | | | 07 | 11 | | | 18 |
| 15 | GLEN EGGINS | | | 11 | | | | | 11 |
| | IAN BREMMER | | | 11 | | | 11 | | 11 |
| | KIRSTY EVANS | | | 11 | | | | | 11 |
| | RAY EVANS | 11 | | | | | | | 11 |
| | TRICH EVANS | 11 | | | | | | | 11 |
| 21 | HELEN ROBSON-PETCH | | | | | | 09 | | 09 |
| 22 | GREG HORTON | | | | | | 08 | | 08 |
| | LAUREN SMITH | | 08 | | | | | | 08 |
| 24 | SCOTT DIPROSE | | | | | | 07 | | 07 |
| | TIM ANDERSON | | | | | | 07 | | 07 |
| 26 | ROBERT SIMPSON | | 06 | | | | | | 06 |
| | TONY GRAHAM | | 06 | | | | | | 06 |



FOR SALE

CLASS 1 OFF ROAD BUGGIE

CURRENTLY 2ND IN QUEENSLAND CHAMPIONSHIPS

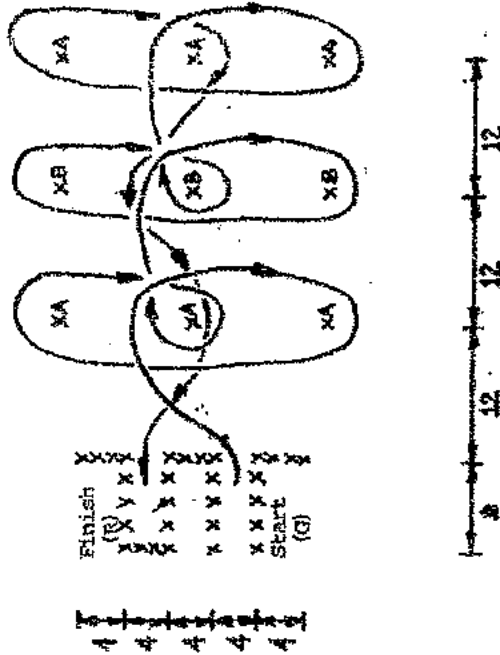
USA Chenoweth frame, fresh Mitsubishi Cordia 1800 fuel injected turbo motor, rebuilt 1800 close ratio Combi box, 4 wheel disc, new Wright rack and pinion with ram assist, long travel front & rear arms, rear centre adjuster, helmet air system, new tyres & rims, plus many spare tyres, rims and parts. Buggie ready to race last round of Qld Championships.

Selling buggie to change class.

Price: \$8,000

Phone: Ross Watson - 079 581704
Dysart

Test 34. Triple Loop



WHAT IS A MOTORKHANA?

A Motorkhana is a series of tests marked out with flags consisting of garages which you may need to reverse into or out of as the particular test dictates, and other flags to negotiate your way around in a set direction.

The object is to traverse the test as quickly as you can without knocking any flags over.

Above is a typical test pattern where you would start in a forward direction from the START garage, go around a central flag, then in a large loop around the end flag, down to the other end flag, around it and then back to the centre flag going all the way around it and up to the next line of flags going around the centre flag as you did out of the start garage. Continue the test repeating the moves you made on the first level, then again onto the third level, but when you come back to the centre flag for the last time slalom down through all the centre flags, then on into the FINISH garage.

The Director of the event will choose the tests to be done on the day and usually everyone helps in setting them up.

There is no pressure on any driver from other competitors to have to drive fast, and EVERYONE makes mistakes and forgets where they are going at some stage so don't be afraid to come along and have a go.

20TH SEPTEMBER IS THE NEXT MOTORKHANA AT BOONDALL ENTERTAINMENT CENTRE, CARPARK Q AT 10AM.

THIS WILL HAVE A SEPARATE BEGINNERS TEST SET UP FOR THOSE OF YOU WHO DON'T FEEL COMFORTABLE WITH RUNNING AGAINST THE REGULAR COMPETITORS, ANY CAR-WILL DO.

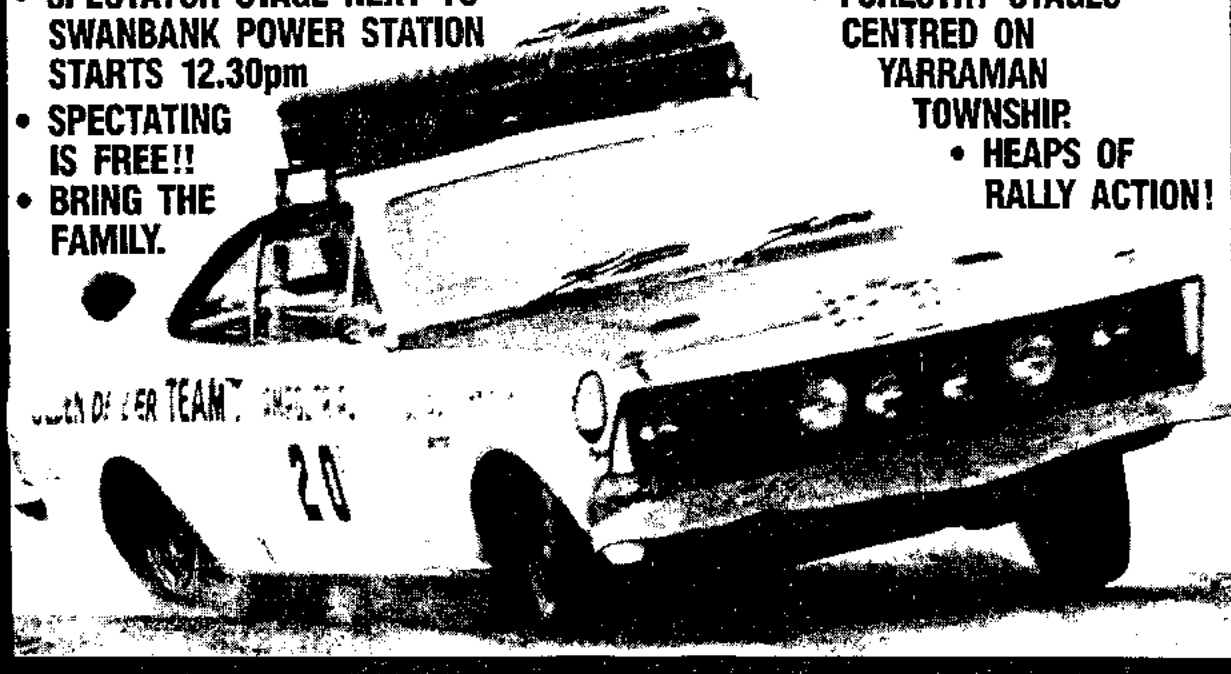
Bumpa Bump

The
Queensland
Times

RACE
BEGINS
12 NOON
ELLENBOROUGH
STREET

FATHERS DAY WEEKEND SATURDAY SEPTEMBER 5th

- BAND & FASHION PARADE IN ELLENBOROUGH ST. 10-12
- SPECTATOR STAGE NEXT TO SWANBANK POWER STATION STARTS 12.30pm
- SPECTATING IS FREE!!
- BRING THE FAMILY.
- FORESTRY STAGES CENTRED ON YARRAMAN TOWNSHIP.
- HEAPS OF RALLY ACTION!



RALLY

BUMPA-T-BUMPA Q.T. RALLY

Round 4 of the QRC
5 September 1992
\$170 Entry Fee
170 klm Competitive

Entertaining Start Celebrations
Great Spectator Stage in Ipswich
Best Rally Roads in Queensland
Fantastic Spectator Points
Easy Servicing

If you are not intending to compete you may like to consider assisting with the running of the event. The organisers are seeking people to help with controls, road blocks, spectator control.

If you feel you could assist ring John Careless 294 6128 (H)



Ipswich West Moreton Auto Club

STRUTH MATE!! What can I say?

Round 1 of the "Ettamogah Pub and Coca Cola Short Course Series" has been run and won.

Despite only having five entries on the Tuesday before the Event we finally ended up with forty three drivers, driving thirty one cars. It would appear that Offroaders leave not only fixing their cars to the last minute but also putting inn their entries. This creates a lot of problems for event organisers to sort out paper work, programs and start orders etc.

Enough complaining, back to the Event. The owner's of The Big Kart had kindly slashed all the track area which provide us with a clear area to run on. The track layout, which was varied from previous years, was well received by competitors.

From the start of the first heat it was obvious that the competition was going to be fast and furious with some very close results in some races. The only retirement in Heat 1 was Moss Lane in Car 567 (clutch problems). After the first heat the pacesetters were Laurie Svenson and Nev Marshall in their Class 9 buggies.

Heat 2 saw some very consistent performances from all drivers . Unfortunately the double entered car 616 of Michael Veritz and Robert Smith retired with front end problems.

After the lunch break the battle was on again in earnest. Clint Cooper in car 109 made an exit from Heat 3 after he broke a rear axle. Fortunately repairs were made and he was able to run the car in Heat 4 to win Class 1 by three seconds on the day from his father Lindsay. A very good result for our major sponsors.

Heat 4 saw most drivers doing good times and consolidating their Class positions. The fastest time of the day went to Laurie Svenson in his Class 9 buggy. (See over for full results). One of the highlights of the day was the races between the three Willett brothers, it is not often you see three people from the same family racing against each other in the same race.

Overall the Event ran very well with all drivers putting in good performances. It was pleasing to note the good entries in Classes 6 and 9. I think we must have created a record for finishes at an Offroad event with forty drivers finishing the course out of forty three starters. (Twenty nine cars finished out of thirty one starters) I would like to congratulate all competitors on their efforts.

I would like to thank everyone who assisted with the running of the event, without their efforts it would not be as successful as it was.

I hope that all drivers will give their support to the remaing Rounds of the Series.

| | |
|--------------|---|
| ROUND 2 | "ETTAMOGAH PUB" - PALMVIEW 12-13TH SEPTEMBER 1992 SOUTH EAST QLD OFFROAD RACING ASSOCIATION |
| ROUND 3 | "WILLOWBANK" - IPSWICH 25TH OCTOBER 1992 IPSWICH WEST MORETON AUTO CLUB INC. |
| ROUND 4 | "ECHO VALLEY" - TOOWOOMBA 15TH NOVEMBER 1992 TOOWOOMBA AUTO CLUB LTD. |
| PRESENTATION | ETTAMOGAH PUB 28TH NOVEMBER 1992 |



**Ettamogah Pub and Coca Cola Offroad Series
Round 1 16/8/92 - FINAL RESULTS**

| CAR | ENTRANT | DRIVER/NAVIGATOR | * BEST 3 HEATS | | | # 1 Min penalty for jumping start. | | O/R | C/P |
|-------|--------------|-----------------------------|----------------|--------|--------|------------------------------------|--------|-----|-----|
| | | | HEAT 1 | HEAT 2 | HEAT 3 | HEAT 4 | TOTAL* | | |
| 112 | S McKEE | Scott McKEE | 3.26* | 5.26* | DNF | 3.41* | 12.33 | 39 | 10 |
| 114 | P BUDA | Ian MacDONALD | 2.59* | 3.01* | 3.01* | 3.07 | 9.01 | 8 | 3 |
| 114A | P BUDA | Paul BUDA/G COVENTRY | 3.11* | 3.09* | 3.13* | 3.09 | 9.29 | =19 | 8 |
| 115 | T FEHLHABER | Tony FEHLHABER/J SANDBERG | 3.07* | 3.05* | 3.05* | DNF | 9.17 | 15 | 5 |
| 141 | S WILLETT | Steve WILLETT/Barry WILLETT | 3.04* | DNF | 3.06* | 3.08* | 9.18 | 16 | 6 |
| 171 | W MENDAHM | Warwick MENDAHM/G GILLILAND | 3.07* | 3.08 | 3.03* | 3.01* | 9.11 | 11 | 4 |
| 182 | D WILLETT | Danny WILLET/Kim WILLETT | 3.18 | 3.06* | 3.05* | 3.09* | 9.20 | 18 | 7 |
| 1109 | L COOPER | Clint COOPER | 2.56* | 2.56* | DNF | 2.57* | 8.49 | 3 | 1 |
| 1109A | L COOPER | Lindsay COOPER | 3.05* | 2.53* | 2.54* | DNS | 8.52 | 6 | 2 |
| 1118 | M WILLETT | Micheal WILLETT | 3.02* | 3.05* | DNF | 5.51* | 11.58 | 38 | 9 |
| 221 | C CAVE | Chris CAVE | 3.05* | 3.00* | 3.05* | 3.13 | 9.10 | =9 | 3 |
| 235 | M DOBSON | Mark DOBSON | 3.53 | 3.45* | 3.45* | 3.46* | 11.16 | 37 | 7 |
| 240 | R VANDERHAAR | Ron VANDERHARR | 2.59 | 2.58* | 2.54* | 2.59* | 8.51 | =4 | =1 |
| 241 | S HILTON | Steve HILTON/Jodi HILTON | 2.58 | 2.56* | 2.58* | 2.57* | 8.51 | =4 | =1 |
| 248 | D MacARTHUR | Donald MacARTHUR | 3.09* | 3.15 | 3.13* | 3.11* | 9.33 | 22 | 4 |
| 266 | T CRANE | Troy CRANE | 3.16* | DNF | 3.20* | 3.23* | 9.59 | 26 | 5 |
| 266A | T CRANE | Terry CRANE/Lee CRANE | 3.37 | 3.338 | 3.28* | 3.30* | 10.31 | =33 | 6 |
| 309 | G HANCEY | Glen HANCEY/C GANNON | 3.05* | 3.05* | 3.06* | 4.08# | 9.16 | 14 | 2 |
| 309A | G HANCEY | Brett HANCEY/C GANNON | 3.19* | 3.10* | 3.26 | 3.20* | 9.49 | 25 | 3 |
| 370 | R HARTNETT | Russel HARTNETT | 3.03* | 3.04* | 3.07 | 3.03* | 9.10 | =9 | 1 |
| 402 | N TAYLOR | Nev TAYLOR | 3.13* | DNF | 3.23* | 3.10* | 9.46 | 24 | 1 |
| 402A | N TAYLOR | Bob OXLEY | 3.25* | DNF | 3.21* | 3.18* | 10.04 | 27 | 2 |
| 427 | J MOORE | John MOORE | 3.24* | 3.22* | 3.38 | 3.36* | 10.22 | 31 | 3 |
| 567 | M LANE | Moss LANE | DNF | DNS | DNS | DNS | | | |
| 574 | FALKEN TYRES | N SINGLETON/J QUINLAN | 3.14* | 3.42 | 3.32* | 3.34* | 10.20 | 30 | 1 |
| 616 | M VERITZ | Michael VERITZ | DNF | 3.41 | DNS | DNS | | | |
| 616A | M VERITZ | Robert SMITH | 3.29 | 3.33 | DNS | DNS | | | |
| 617 | G CROUCHER | George CROUCHER | 3.25 | 3.07* | 3.07* | 3.05* | 9.19 | 17 | 1 |
| 617A | G CROUCHER | Brett CROTHERS | 3.25 | 3.07* | 3.17* | 3.13* | 9.31 | 21 | 3 |
| 617B | G CROUCHER | Peter BEST | 3.21 | 3.09* | 3.10* | 3.10* | 9.29 | =19 | 2 |
| 666 | B RANKIN | Ben RANKIN/C HUTTON | DNF | 3.25* | 3.31* | 3.31* | 10.27 | 32 | 6 |
| 666A | B RANKIN | Steve THOMPSON | 4.24 | 3.27* | 3.22* | 3.24* | 10.13 | 29 | 5 |
| 696 | A HICKSON | Andrew HICKSON | 3.24 | 3.17* | 3.20* | 3.21* | 9.58 | 26 | 4 |
| 715 | G WHITE | Grant WHITE | 3.23* | 3.32* | 3.36* | DNF | 10.31 | =33 | 1 |
| 747 | D SOLOMON | Darren SOLOMON | 3.33* | 3.36* | 3.39* | 3.51 | 10.48 | 36 | 2 |
| 914 | N MARSHALL | Nev MARSHALL | 2.52* | 2.55* | 3.13 | 2.58* | 8.45 | 2 | 2 |
| 939 | L SVENSON | Laurie SVENSON | 2.50* | 2.52* | 2.55* | 2.55 | 8.37 | 1 | 1 |
| 939A | L SVENSON | Chris AFOO | 3.09* | 3.02* | 3.03* | DNS | 9.14 | 13 | 5 |
| 939B | L SVENSON | Greg HORTON | 3.02* | 3.01* | 3.09* | DNS | 9.12 | 12 | 4 |
| 943 | D ELLSWORTH | David ELLSWORTH | 3.13* | 3.17* | 3.21 | 3.09* | 9.39 | 23 | 6 |
| 987 | L MARSHALL | Les MARSHALL | 3.20* | 3.19* | 3.27 | 3.26* | 10.05 | 28 | 7 |
| 987A | L MARSHALL | Chad De BRUEYS | 3.40 | 3.31* | 3.31* | 3.29* | 10.31 | =33 | 8 |
| 999 | G SMITH | Graham SMITH | 2.58* | 2.58* | 2.57* | 2.59 | 8.53 | 7 | 3 |

HARD LUCK AWARDS:- Moss Lane - Car 567 Micheal Veritz - Car 616

I would like to congratulate all drivers on your performances and thank you for the way in which you conducted yourself during the Event. It was a pleasure for me to be able to run the day without any hassles.

I would like to say "THANK YOU" to all the crew who helped with the running of the Event, in particular my Assistant Director Janelle Svenson and Secretary Jim Sams.

| | |
|----------------|---|
| Admin:- | Trish Evans |
| Time Keepers:- | Anne Jones, Janelle Williams, Colleen Smith |
| Marshalls:- | Greg & Allan Nicoll , David Jones, Ross Williams, Neil Bang |
| Starter:- | Cedric Loy |
| Scrutineers:- | Dennis Denning, Wayne Cambie |
| Recovery:- | The Pick Crew |
| Track Setup:- | Laurie Svenson, Troy Crane & Crew |
| Commentator: | Fred Berge |



I would also like to thank all the members of the Series Organising Committee for their help and assistance with the Series. It was a great days racing, SEE YOU ALL AT THE NEXT ROUND.

Rod Sams

FILTERS

Written by Jim Bernard

LUBE FILTERS

A filter that plugs is doing its intended job - removing particulate matter from the oil. The problem is usually not the filter but is caused by an engine or an oil problem.

Filter plugging should be thought of as a result of but not the cause of a problem.

1. Filters that have a heavy build up of loose sludge occur when the oil's limit for handling combustion contaminate is exceeded. Causes of this type of plugging include excessive oil drain intervals, poor maintenance and high blow-by.
2. Filters with shiny, tightly held sludge and wavy pleats, is a form of plugging that occurs when coolant leaks into the crankcase or, there is a build up of condensate moisture. This moisture impairs the action of the oil's dispersant so that soot or carbon clings together and drops out.

The wavy pleats are due to the fact that the media swells slightly in the presence of moisture. Causes of this problem are coolant leakage into crankcase as well as excessive idling in cold weather.

3. Filters with gray coloration and wavy pleats is also caused by coolant or moisture in crankcase.

Part of the oil's additive package precipitates or separates from solution and plugs the filter.

4. Filters with a creamy gel-like build up is a form of plugging when water or coolant contaminates oil, and often occurs when oil in a bulk tank contains a small amount of water (less than 0.5%) filter plugging can take place very rapidly after this "oil" has been added to the engine. Since these materials are mostly water, the gel and filter restriction will disappear if the element is exposed to the air. This type of plugging is the most difficult to convince the operator as the filter will check out ok after this drying out process occurs, however by analysis with infrared spectrophotometer, the phenomenon is detected in media.

5. Filter plugged with red discoloration results when oxidation products are not solubilised by oil. This can result from fuel dilution because of its poor thermic stability, high engine temperatures or using an oil which was not formulated to withstand normal engine temperatures (eg. cc oil in a turbo-charged engine). There is little soot in the residuous material on the filter. The oil's dispersant is doing its job while the detergent package cannot cope with the oxidation products that are formed.

6. Filters with large amounts of wear metals are often found but it is uncommon to find a filter plugged with these materials unless a catastrophic breakdown has occurred. This type of plugging is associated with high engine wear, failure, or injection of large amounts of dust and dirt into the lube system.

7. A filter plugs because it is doing its job. Some operators have changed filter brands and apparently solved filter plugging problems. In these instances, the filter plugs as before, however, oil pressure stays near normal because the filter ruptures due to low strength media. Therefore filter plugging problem is traded for a filter rupture problem and increased engine wear.

I have been asked many times why "when using brand "A" oil filter in my car the oil pressure light stays on longer at initial start up after 5,000 kms, yet with brand "X" the oil light goes out immediately on start up even after many thousands of kms?"

Because the oil pressure switch is after the oil filter, as the filter plugs, oil pressure to the engine is reduced. Filter "A" is doing its job, filter "X" is not.

Filters of one kind or another have been used for thousands of years. The ancient Greeks used them to help clear and purify medicine, wine and beer. Carvings on walls and tombs of Egypt, dating around 1400 B.C. depict the straining of various kinds of fluids.

In more contemporary times, the first known filter patents were issued in 1789 in France, and in 1845 in U.S.A.

The first automotive engine oil filter wasn't patented until 1923, plain impregnated filter paper was first used in 1937 and pleated paper as we know it now followed later. The section and design of today's filters include such technology and developments as computer-generated filter models, which help designers select filters with just the right level of filtration at lowest possible cost. Standardization of filter rating procedures are established by technical societies, such as the National Fluid Power Association (NFPA), and American National Standards Institute (ANSI), Society of Automotive Engineers (SAE) and International Standards Organisation (ISO).

1 Micron (1μ)
 = 1 millionth of 1 metre
 = 0.0000394 of 1 inch

Full flow Lube Oil Filters are usually rated 40 Micron (40μ), but do range between 38 - 60μ .

Hydraulic System Oil Filters
 Suction Strainer: 60 - 120 mesh
 Suction Filter: 20-25- 33μ
 Low Pressure Return: 10μ
 Hi Pressure Return: 3 or 7μ

Fuel Filters (Diesel) 10μ

Engineer Lube Oil Filters
 Oil Pump output
 5 x sump capacity/ Min. (approx) through full-flow filter.
 Engine Oil flow through by-pass filter 5 x sump capacity/ Hour (approx).

AIR FILTERS - DRY TYPE

The question "What is the micron rating of an air cleaner element?" is often asked.

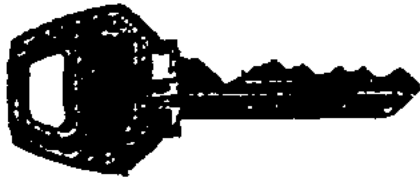
"Micron Rating" or more so now the "B2/20 Ratio" are used to describe the efficiency of liquid filters, but not Dry Type air cleaners or their elements.

The micron rating of a liquid filter is the particle size on which the filter achieves a specified efficiency. The B2/20 ratio of a filter is the ratio between the smallest particle size where the filter is 50% efficient and the smallest particle size where the filter is 95% efficient.

For example, an oil filter with a B2/20 ratio of 9/19 would be 50% efficient of particles 9 microns or larger and 95% efficient on particles 19 microns or larger. The efficiency of air cleaners is described by the overall efficiency when a standard test dust is fed to the air cleaner in accordance with a standard test procedure. Test dust has a mean particle size of 30 microns with 12% less than 5 microns and it representative of most contaminants encountered in the field.

| PARTICLE DIAMETER COMPARISONS IN MICRONS | |
|--|--|
| 0.001 | Smog |
| 0.01 | Oil Smoke, Metallurgical Dust and Fumes, Zinc Oxide Fumes |
| 0.1 | Tobacco Smoke |
| 1 | Clay, Paint Pigments, Insecticide Dusts |
| 10 | Silt, Fertiliser, Fly Ash |
| 100 | Fine Sand, Mist, Coal Dust, Cement Dust, Ground Talc, Milled Flour |
| 1000 | Coarse Sand, Drizzle (Rain) |

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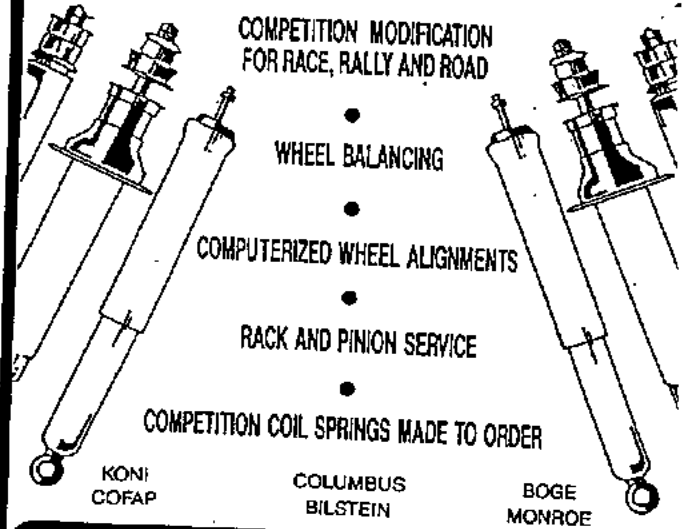
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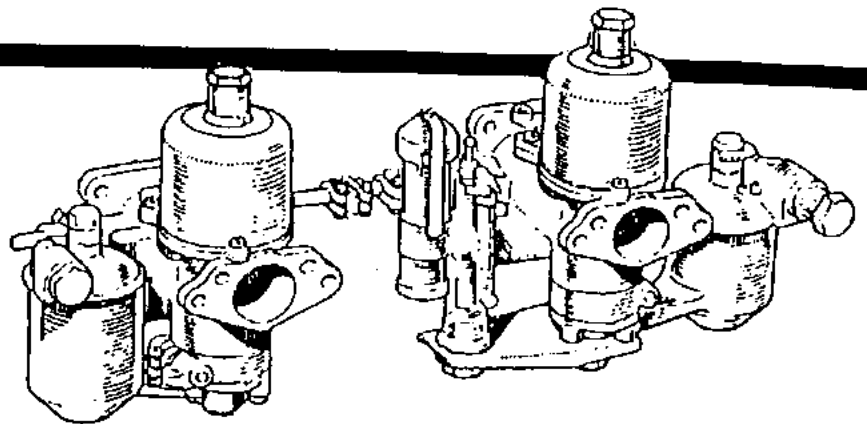
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The life of many of their components depends, to a large degree, on the type, amount and size of contaminant particle passing through them. Filter engineers and designers use a complex language all of their own to discuss the design, manufacture, use and testing of filters.

However, the following definitions will serve to help you understand more about these products.

By Pass Filter (Hyd Systems): A filter that provides an alternate flow path around the filter element when a preset pressure differential is reached (via oil filter relief valve).

Full Flow Filter (Hyd) - A filter that filters all in-flowing material.

Element: The portion of the filter containing the porous device, or media, that traps the contaminant and allows the oil to flow through.

Cartridge: A throw-away element which is contained within a canister bolted to a permanently installed head.

Spin-On: A throw-away bowl and element that screws onto a permanently installed head.

Cleanable: A filter element which, when loaded with contaminants, can be restored by a suitable cleaning process to an acceptable percentage of its original dirt-removing capacity.

Disposable: A filter element intended to be discarded and replaced after one service cycle.

Plain: A filter element whose medium is not pleated and which has the geometric form of a cylinder, cone, disk, plate etc.

Pleated: A filter element whose medium is arranged in uniform folds and which has the geometric form of a cylinder, cone, disk, plate etc.

Burst: An outward structural failure of the filter element caused by excessive differential pressure.

Collapsed: An inward structural failure of the filter element caused by excessive differential pressure.

Loaded (Plugged): A filter element so full of insoluble contaminants that it can no longer pass rated flow without excessive differential pressure.

Beta Ratio: Multi pass test of efficiency of any filter, expressed by the number of particles in a given size range downstream of the filter.

Contaminant: Dirt or other foreign and undesirable material or particles present in the system.

Filter Capacity: The amount of contaminants collected by the element before an excessive pressure drop is reached; usually expressed in grams.

Pressure Drop: The reduction in pressure from the upstream side of a filter to its downstream side.

Nominal Micron Rating: The filter media specified as 3 μ , 7 μ , 10 μ , 20 μ , 33 μ , etc. The nominal micron rating should be used only to categorize media, since the ratings are developed based on single pass efficiency tests using uniformed particles as system contaminants.

SSU: Is the common method of writing saybolt universal seconds, the standard method used in U.S.A. to state viscosity. In Australia we normally use the Centistroke as our measurement.
150 SSU = 30 cSt (approx)

By Pass Filter (Lube oil systems - both O.E.M. and after market types): A filter that provides ultrafine filtration to a continuous sample of oil.

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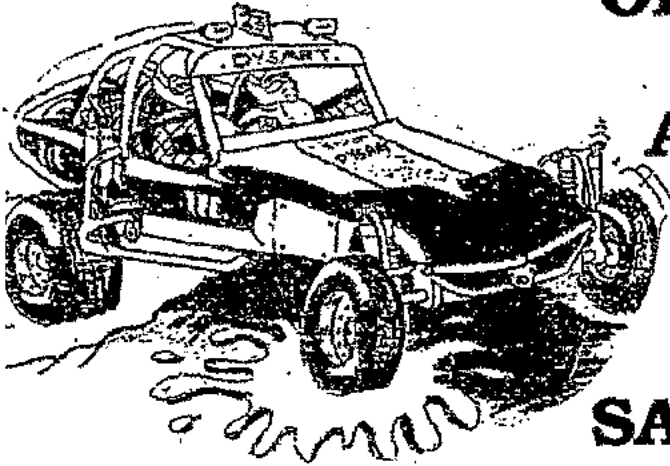
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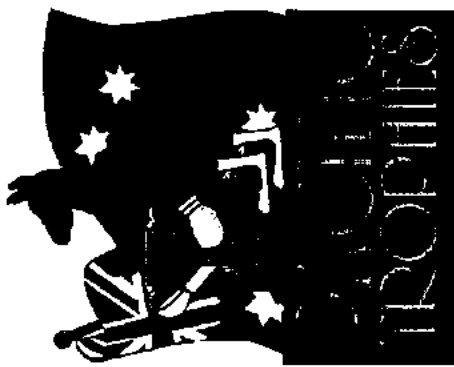
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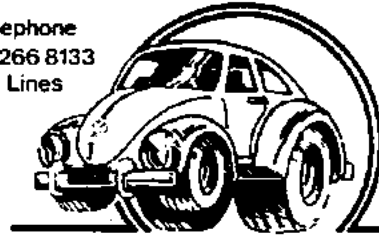
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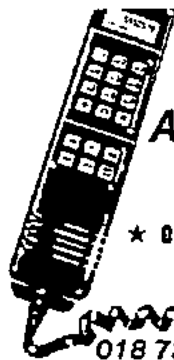
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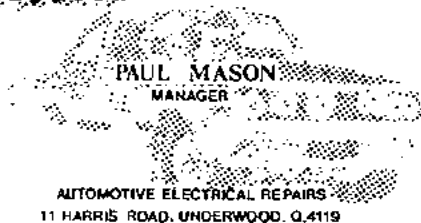
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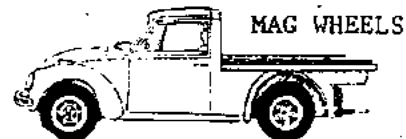
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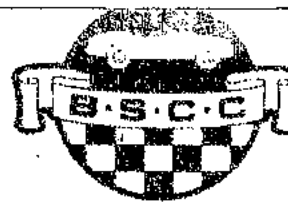
BRISBANE SPORTING CAR CLUB LIMITED

(INC. IN QLD)

P.O. Box 347,
Woolloongabba,
Qld 4102

Clubrooms:
Cnr Reid and Hawthorne Streets,
Woolloongabba

Ph: (07) 391 8881



Affiliated with
C.A.M.S. 1954

CLUB OFFICIALS

TELEPHONE NUMBERS

PATRON

THE RT. HON. LORD MAYOR
ALDERMAN JAMES SOORLEY

PRESIDENT

ALAN BATES

262 5784 831 6944

VICE PRESIDENT

RAY EVANS

209 1432 209 1432

IMMEDIATE PAST PRESIDENT

LAURENCE SVENSON

261 3349

SECRETARY

ROD SAMS

345 9075 834 2422

TREASURER

GARY McLANE

355 5985 848 6464

ASSISTANT TREASURER

NEIL MICHEL

398 1810 231 5560

CLUB CAPTAIN

LAURENCE SVENSON

261 3349

BOARD MEMBERS:

RICHARD ANDERSON

ERROL BAILEY

ALAN CLUNES

JOHN GOASDOUE

CRAIG LEE

PETER MARCOVICH

ALAN NICOLL

JOHN QUINN

TOM SMITH

BRIAN SWINTON

ADMINISTRATION OFFICER

ESME GIBSON

345 3435 391 8881

CAMS DELEGATE

PETER MARCOVICH

395 1722 274 3647

AUDITOR

PETER QUINN

EDITOR

CHRISTOPHER DE VERE

074 821 855

REGISTRAR

PATRICIA EVANS

209 1432

REFRESHMENTS OFFICER

IAN BREMNER

343 8351 262 1222

PROPERTY OFFICER

ALAN NICOLL

355 4676

SPORTING SUB COMMITTEES:

OFF ROAD

LAURENCE SVENSON

261 3349

RALLY

RICHARD ANDERSON

261 1222

MOTORKHANA OFFICER

RAY EVANS

209 1432

NIGHT RUN OFFICER

RAY EVANS

" "

SOCIAL SUB-COMMITTEE CHAIRMAN

PROMOTIONS AND MARKETING

CLUBROOMS

BRISBANE SPORTING CAR CLUB LIMITED'S CLUBROOMS are located at the Corner of :
REID AND HAWTHORNE STS
WOOLLOONGABBA

and are open EVERY WEDNESDAY from 8.00 p.m. onwards.

POSTAL ADDRESS/TELEPHONE/FACSIMILE NUMBERS : Telephone 07 391 8881 Fax 07 891 1401

ALL CORRESPONDENCE, ENTRIES, ETC. FOR THE CLUB SHOULD BE ADDRESSED TO:

BRISBANE SPORTING CAR CLUB-LTD.

P.O. BOX 347

WOOLLOONGABBA QLD 4102

Calendar

- 1 Sept. Board Meeting
- 2 Sept. Night Run Don't forget 3rd party extension
- 20 Sept. Motorkhana Boondall Entertainment Centre Carpark Q
- 1 Oct. Round 3 Queensland Off Road Long Course
- 17 Oct. Bailey Powerlines - Directed by Brian Everitt
- 5/6 Dec. Gallangowan Last round QRC

Up and Coming Events

- 29 Aug LIR P/L Truck racing
- 5 Sept IWMAC Bumpa-t-Bumpa QRC
- 13 Sept IWMAC Autocrosse Willowbank
- 13 Sept SEQORRA Ettamogah Pub Coca Cola Series Round 2
- 18-22 Sept RAL Rally Australia WA
- 19 Sept CACA Clubman Series Rally Round 4
- 20 Sept TAC Hillclimb Echo Valley
- 27 Sept Australian Motorkhana Championship Seaworld

- 25 Oct IWMAC Ettamogah Pub Coca Cola Series Round 3
- 25 Oct MGCC Hillclimb - Mt Cotton
- 31 Oct Rally Tasmania ARC
- 31 Oct NDSCC Rally - Toolara

Anyone interested in being part of a group booking to see JESUS CHRIST SUPERSTAR on 26th or 27th October at the Brisbane Entertainment Centre please contact Trish at the Clubrooms or place your name on the list on the notice board. We need at least 20 people, adults or children.

Tickets are \$36.80 adults, \$26.80 children 14 years and under.

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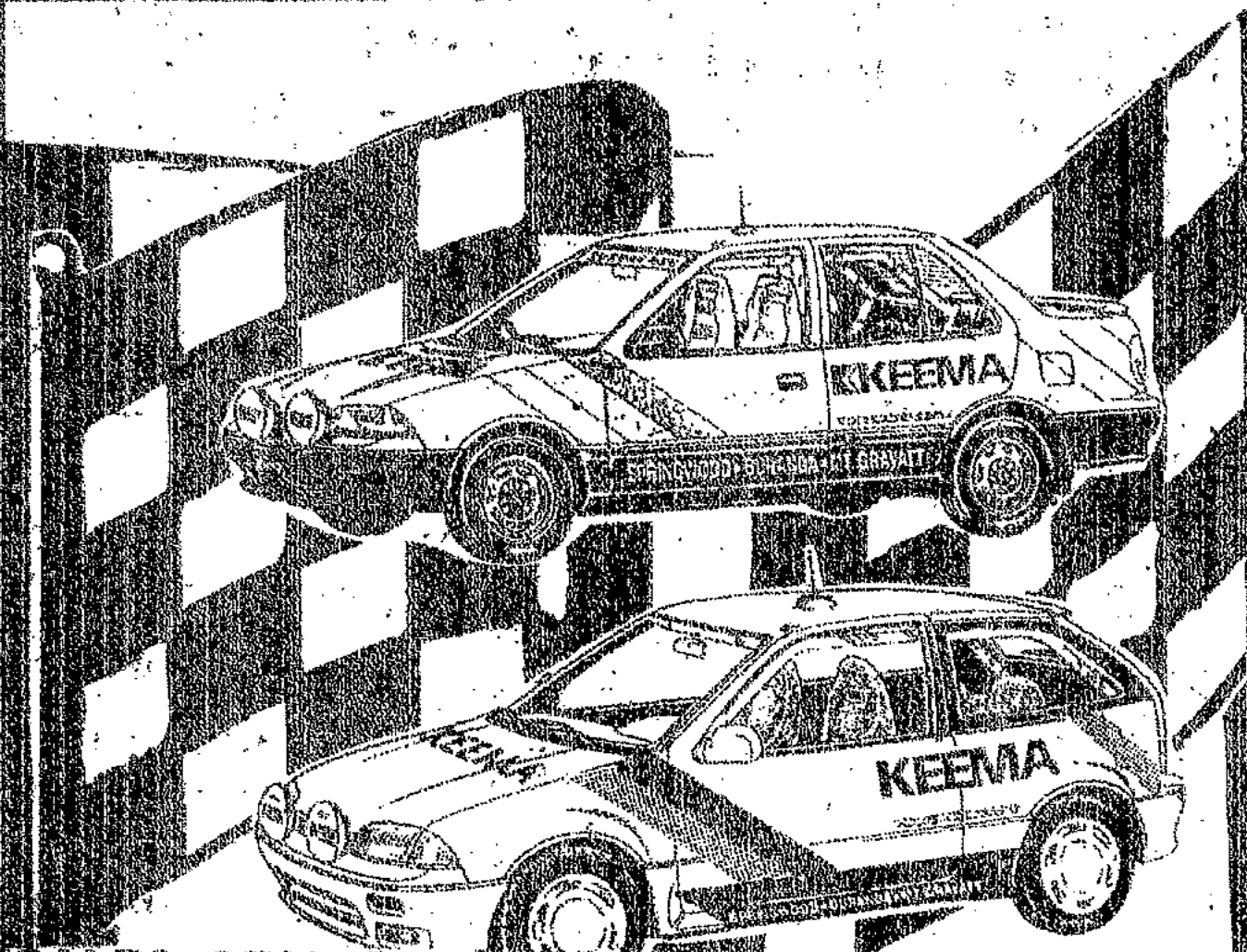
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PH 343 5888
PH 393 1200
PH 208 4333

A/hrs Henk Kabel Ph. 300 2617