

INSIDE THE
WINTER
EDITION

Winton Race Report

Rd 3& 4
Race Data

Where do
IPRA
members
live?

What is it with little racing?



Technical

Is your rear end stressed? Well, we have a look....

> NEED TO TOW AT 100MPH? MERCEDES DID. IN 1955...

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From the President



Well its offically here, winter that is, it's cold, its dark, it's wet and it's windy, a good time to crank up the heater in the shed, or sit inside in front of the fire.

By the time you read this, round four of the State round at Sandown would have been run and won, looking at the entry list we have a good turnout which is fantastic and even better is that we have some new names and faces.

This shows the strength and appeal to the club with a never ending turnaround of some in and some out. A rotating door is the norm for any heathy club of any type. Our membership is sitting a very heathy 130 members which for this time of the year is great. We continue to welcome new competitors with open arms and hope they feel welcome in our club.

Last time I spoke Bathurst was on the cards - well its official – we will have an IPRA grid at Easter and I think this will shape up to be great event and excellent timing for our category.

Don't forget the Nationals at the BEND in Tailem Bend South Australia on 9 – 11 November! This promises to be a biggie (but want nationals are not big???) and early reports of those that have already experienced the track indicate great racing is guaranteed at this brand new circuit. Registrations are now open. To help with planning, the hosting club, IPRA SA, would appreciate your early commitment if you are planning on entering. We know only too well how hard it is to organise an event of that size and your co-operation in early entries will be of a help them. Please great go http://www.iprasa.org.au/nationals for all relevant information and to register. Various packages are available depending on the type of garage/ marquee that you want. The Paddock Marquee entry at \$895.00 represents great value including Friday practice and two days of racing.

We are having a bit of a change to the club general meeting venue for the rest of this year and are moving to the Wantirna Club. Facilities here are excellent with an opportunity to grab a great meal at the bistro before the meeting and then you can head upstairs to the meeting room to find out the latest news. Our next meeting is on Wednesday 15th August – meeting will commence at 8.00pm. If you wish to join our group for dinner before the meeting, please contact me and I will add you to a booking. Hope to see you all there!

Please save the date for our AGM, also to be held at the Wantirna Club, on Wednesday 31 October. This is the meeting where annual reports are presented and the 2019 committee will be composed. More information will follow on this but now would be a good time to consider if you would like to join the committee and have a say in the administration and direction of the club. Please note, presentations of annual awards will not be done at the AGM, but will be presented at the season launch to be held in February (date to be advised soon).

Now to some serious stuff Winton has run and won in some very challenging conditions, with the final race of the weekend being the only dry run we had. On the up side, there was some very skilful driving and car control which was fantastic to watch on a very wet and slippery track. We saw a great turnout of under 2.0 litre cars, perfectly suited for the twisty turns at Winton. However, on the down side, we had a number of competitors forgetting to engage the brain when they engaged first gear on the starting grid which led to a lot drivers passing under yellow flags on the first lap. This sort of conduct is out of character for us as a group and was quite frankly, embarrassing for the category. The breaches led to disqualifications, fines, general unrest and a stern talk from officials at a specially called drivers briefing Sunday morning.

I would like to point two things out, firstly, this is a serious offence and failure to adhere to these rules put the safety of other drivers, yourself and the officials, in jeopardy. You just never know what's on the track or who's on the track when a safety car and yellow flags are being shown and it is your responsibility to heed the flags and act accordingly. The second thing to point out is how to behave when if you do make a mistake. General rule of thumb is, if you do something wrong (and of course, we are humans and we all get it wrong sometimes) the best thing to do is go see the Clerk of Course and admit to your sins. How many times in drivers briefing do they say "come and see us if you do something wrong"???? If this is done, chances are your outcome will be much more favourable than when officials come looking for you. There will still be a penalty but most likely, minimum penalty will be imposed if you own up and admit being at fault. However, if you are called



up and presented with a charge, you generally have two options, to fall on your sword and take wants coming to you, or, disagree and head to the stewards room. This second scenario becomes more serious, and is not dissimilar to a court room. If you can prove your innocence, and I mean with video evidence, then you walk scott free. But if you don't have proof you will probably walk out with a bigger penalty than want you got from the Clerk of Course. Of course, you have the right and option to still disagree with their decision, but good luck with that process!

This is what happened at Winton, and there were a lot of different penalties handed out due to scenarios as outlined above. Of course, much scuttlebutt has been bandied about in regard to the different types of penalties that we imposed, so I hope this clears up the reasons for this.

One other thing I would like to bring up is driver behaviour both on and off the track. Our club is proud to have very clean racing and a great camaraderie amongst our competitors – that is the way we want it to stay. IPRA is a "NO AGRO ZONE" and such behaviour will not be tolerated. If there is something that is bothering you, or if an incident has occurred, please come and talk to me, or another member of the committee (if it's about me haha). We are there to help, and hopefully can help clear things up a little, most times it just a misunderstanding.

Okay, enough of the stern talking — on a brighter note Peta, myself and our two girls had a three week rush around France and Spain when the last Phillip Island round was run. We managed to fit in two days at the Barcelona F1 Grand Prix to cheer on our man, Daniel Ricciardo, and it was a highlight of the holidays in my eyes. There were so many passionate supporters wearing all the war colours of the different teams fantastic to see. The track was some 40 minutes from Barcelona but a flawless public transport system with a never ending stream of shuttle buses transported the thousands of spectators in and out of the track in precise and swift manoeuvres. The track was very interesting and with great elevation and undulation, much more than I expected.

We took a look in the Renault store on Champs Elysees in Paris - had a sit in an ex Formula 1 car and yep, at my height, I was never going to be an F1 driver! I looked in awe at the Lambos, Ferraris and Maserati's that seem to be common place driving around the crazy roundabout at the Arc de Triomphe in Paris. Once we left Paris, we hired a Peugeot 4006 and drove almost 2000km throughout France and Spain. The descent from the mountains down into San Sebastian would have been much more fun in the Group A. We manoeuvred around the countryside and down one way streets (mostly the right way) and spent a load on tolls. The standard of driving etiquette on the motorway was something to be seen....no idiots sitting in the left lane (the fast lane in Europe) unlike what we see here in Aus. We saw some great sights and it was a great experience. Yep, now it's back to work to pay off the trip!

See you at the track

Pistons Rule

AKA

Gary McKay





From the editor



Hi Everyone!

Was great to see some of you at Sandown on the Saturday. Glad I had a coat! Thought it was a bit concerning to see 6 cars racing in Sports Cars.

The Winter mag contains race reports for both Winton and Sandown. Thanks to Luke Grech-Cumbo for providing a hand with race reports this year.

I have started a profile series involving a brief summary of the cars in IPRA, starting with the RX7.

The winter technical article runs through an example why standard road car components often break when the car goes on to a race track. Although obvious in some respects, I've attempted to explain the science and mathematics behind it.

Happy reading and stay safe everyone. On and off the track...

Jason Fankhauser







IPRA Vic Calendar

| WHEN | WHAT |
|-----------------------|--|
| 20-22 April | Supercars WD-40 Phillip Island 500 |
| 4-6 May | Supercars Perth SuperSprint* |
| 5-6 May | Round 2 – PIARC – Phillip Island |
| 10-13 May, 2018 | Shannons Nationals Round 2: Sandown |
| 18-20 May | Supercars Winton SuperSprint+ |
| 1-3 June, 2018 | Shannons Nationals Round 3: Phillip Island |
| 15-17 June | Supercars CrownBet Darwin Triple Crown |
| 16-17 June | Round 3 – VSRS Inc – Winton |
| 6-8 July | Supercars Watpac Townsville 400** |
| 20-22 July | Supercars Coates Hire Ipswich SuperSprint* |
| 21-22 July | Round 4 – ASSA Vic – Sandown |
| 24-26 August | Supercars The Bend SuperSprint |
| 28-29 July, 2018 | Shannons Nationals Round 4: Queensland Raceway |
| 4-Aug | Supercars Red Rooster Sydney SuperNight |
| 1-2 September, 2018 | Shannons Nationals Round 5: Winton |
| 12 September | IPRA Vic Committee Meeting |
| 14-16 September | Supercars Sandown 500** |
| 21-23 September, 2018 | Shannons Nationals Round 6: Sydney Motorsport Park |
| 29-30 September | Round 5 – VMCI – Phillip Island |
| 4-7 October | Supercars Supercheap Auto Bathurst 1000** |
| 19-21 October | Supercars Vodafone Gold Coast 600+ |
| 31 October | IPRA Vic Annual General Meeting |
| 2-4 November | Supercars ITM Auckland SuperSprint |
| 23-25 November | Supercars Coates Hire Newcastle 500*+ |



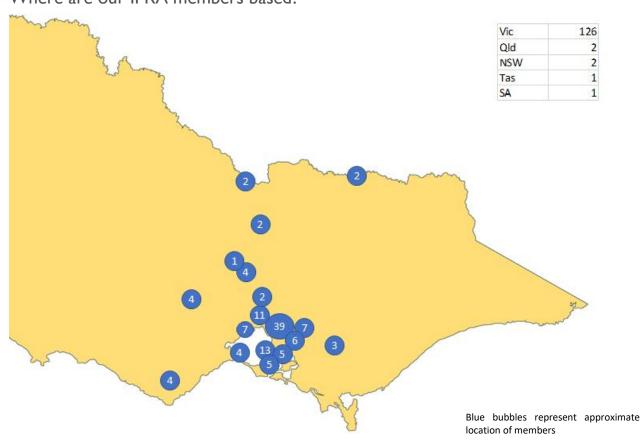


2018 Point Score

Under 2L

| | Entrant | Round | Round | Round | Sar | ndow | n Roi | und 4 | | |
|------------------|-----------------|-------|--------------|------------------------|-------------|------|-------|-------|------|-----------------|
| Driver | Car | Сар | 1 Sandown | 2 Phillip Island | 3 Winton | R1 | R2 | R3 | Rd 3 | Champ. Total |
| Vel Tomic | Honda Integra R | 1998 | 120 | 64 | 94 | 40 | 24 | 40 | 104 | 382 |
| Paul Grziwotz | Honda Civic | 1998 | 60 | 100 | 78 | 24 | 40 | 30 | 94 | 332 |
| Bryson Lloyd | Toyota Celica | 1796 | 52 | 64 | 110 | 16 | 16 | 20 | 52 | 278 |
| Stephen Zourkas | Subaru BRZ | 1998 | 40 | 94 | 52 | 20 | 20 | 24 | 64 | 250 |
| Kevin Coulson | Honda Civic | 1998 | 30 | 32 | 0 | 30 | 30 | 0 | 60 | 122 |
| Matthew Leoncini | Nissan Pulsar | 1600 | 0 | 32 | 32 | 12 | 12 | 16 | 40 | 104 |
| Blair Coull | Nissan Pulsar | 2000 | 60 | 0 | 0 | | | | 0 | 60 |
| Mark Baldwin | Honda Civic | 1973 | 28 | 0 | 24 | | | | 0 | 52 |
| Callum Jensen | Peugeot 306 GT | 1998 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Stephen Wan | Honda Civic | 2000 | 0 | 0 | 24 | | | | 0 | 24 |
| Bruce Henderson | Renault Clio | 1998 | 0 | 0 | 0 | | | | 0 | 0 |
| Robert Wilson | Suzuki GTI | 1298 | 0 | 0 | 0 | | | | 0 | 0 |

Where are our IPRA members based?





Over 2L

| | Entrant | | | Rd | Round | Round | Sa | ndow | n Rou | ınd 4 | |
|-----------------|-----------------|--------|------------|---------|-------------------|--------|----|------|-------|-------|--------|
| | _ | | | 1 | 2 | 3 | | | | | Champ. |
| Driver | Car | Сар | Class | Sandown | Phillip Island | Winton | R1 | R2 | R3 | Rd 3 | Total |
| L Grech-Cumbo | HSV VX Senator | 5700 | 3J(b) | 96 | 100 | 44 | 30 | 30 | 30 | 90 | 330 |
| Robert Braune | BMW 325i E30 | 2860 | 3J(b) 2-3I | 88 | 110 | 0 | 6 | 24 | 16 | 46 | 244 |
| Ray Hislop | Ford BF Falcon | 6000 | 3J(b) | 0 | 0 | 120 | 40 | 40 | 40 | 120 | 240 |
| David Cocks | Vk Commodore | 6000 | 3J(a) | 90 | 32 | 24 | 1 | 8 | 24 | 33 | 179 |
| Andrew Morris | VH Commodore | 5600 | 3J(a) | 30 | 68 | 6.6 | 8 | 16 | 12 | 36 | 140.6 |
| Mathew Logan | VE Commodore | 6000 | 3J(b) | 64 | 15 | 19 | 16 | 12 | 8 | 36 | 134 |
| Tony Moloney | HOLDEN HQ | 5700 | 3J(a) | 24 | 46 | 34 | 0 | 0 | 0 | 0 | 104 |
| Adrian Taranto | Audi S3 | 3200 | 3J(b) | 3 | 18 | 70 | 1 | 2 | 1 | 4 | 95 |
| Tony Groves | Mazda RX7 | 2354 | 3J(a) | 0 | 0 | 84 | | | | 0 | 84 |
| Andrew Butcher | BMW M3 | 3200 | 3J(b) | 0 | 52 | 21 | | | | 0 | 73 |
| Paul Rule | Holden Torana | 5000 | 3J(a) | 0 | 0 | 0 | 24 | 20 | 20 | 64 | 64 |
| Peter Dixon | VZ Monaro | 6000 | 3J(b) | 1 | 34 | 0 | 12 | 6 | 6 | 24 | 59 |
| Craig Caspersz | MAZDA RX7 | 2354 | 3J(a) 2-3I | 4 | 7 | 14 | 4 | 1 | 2 | 7 | 32 |
| Danny Pullens | S14 Silvia | 3400 | 3J(b) | 28 | 0 | 0 | | | | 0 | 28 |
| Ashley Wright | VE Commodore | 6000 | 3J(b) | 0 | 0 | 0 | 20 | 0 | 4 | 24 | 24 |
| David Reaburn | Mitsubishi Evo | 3400 | 3J(b) | 0 | 0 | 20 | 1 | 1 | 1 | 3 | 23 |
| G McPherson | VE Commodore | 6000 | 3J(b) | 20 | 0 | 0 | | | | 0 | 20 |
| David Levy | BMW M3 E46 | 3200 | 3J(b) | 13 | 0 | 0 | 1 | 1 | 1 | 3 | 16 |
| Brad Wyatt | VX Commodore | 6000 | 3J(b) | 1 | 0 | 8 | 2 | 4 | 0 | 6 | 15 |
| Stephen O'Neill | Mits. Lancer | 3400 | 3J(b) | 12 | 3 | 0 | | | | 0 | 15 |
| Gary McKay | Torana XU1 | 3300 | 3J(a) | 13 | 0 | 0 | | | | 0 | 13 |
| Malcolm Henley | Mazda RX7 | 2354 | 3J(a) 2-3I | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 12 |
| Wayne Twist | BMW E46 | 3200 | 3J(b) | 3 | 2 | 3 | 1 | 1 | 1 | 3 | 11 |
| Jim West | BMW E30 | 2500 | 3J(b) 2-3I | 3 | 3 | 2 | 1 | 1 | 1 | 3 | 11 |
| J Kroussoratis | Mazda RX7 | 2340 | 3J(a) 2-3I | 5 | 3 | 0 | 1 | 1 | 1 | 3 | 11 |
| C McKee | AU XR6 | 3998 | 3J(b) | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 10 |
| Shane Williams | Mazda RX7 | 2354 | 3J(a) 2-3I | 0 | 3 | 6 | | | | 0 | 9 |
| Brad Blunt | BMW E36 | 3200 | 3J(b) | 6 | 3 | 0 | | | | 0 | 9 |
| Wayne Dekker | Audi 80 Quattro | 2600 | 3J(a) 2-3I | 2 | 3 | 0 | 1 | 1 | 1 | 3 | 8 |
| Tom Prentice | Mazda 626 | 2500 | 3J(a) 2-3I | 0 | 0 | 8 | | | | 0 | 8 |
| Richard Opie | Mazda RX8 | 2340 | 3J(a) 2-3I | 3 | 5 | 0 | | | | 0 | 8 |
| Paul Vuillermin | EA Falcon | 3900 | 3J(b) | 1 | 2 | 0 | 1 | 1 | 1 | 3 | 6 |
| John Dawson | Holden HQ | 5700 | 3J(a) | 0 | 3 | 0 | 1 | 1 | 1 | 3 | 6 |
| Marco Timperio | Ford Falcon EA | 3900 | 3J(b) | 3 | 0 | 3 | | | | 0 | 6 |
| David Shaw | Falcon ED XR6 | 3998 | 3J(b) | 3 | 3 | 0 | | | | 0 | 6 |
| S Gorman | BMW E30 325i | 2498 | 3J(a) 2-3I | 3 | 3 | 0 | | | | 0 | 6 |
| Grant Ogle | Ford Focus | 4287.4 | 3J(b) | 1 | 3 | 1 | | | | 0 | 5 |
| A Johnson | VL Commodore | 5700 | 3J(b) | 0 | 4 | 0 | | | | 0 | 4 |
| Rod Lloyd | Benz 190e | 2498 | 3J(a) 2-3I | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 |
| lan McLennan | | 5700 | 3J(b) | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 |
| David Bone | Datsun 1600 | 3400 | 3J(a) | 0 | 3 | 0 | | | | 0 | 3 |
| Paul Theologou | Commodore VE | 6000 | 3J(b) | 0 | 3 | 0 | | | | 0 | 3 |
| Gary Pearce | BMW 125i | 2500 | 3J(b) 2-3I | 3 | 0 | 0 | | | | 0 | 3 |
| Rolf Mamers | Mazda RX7 | 2600 | 3J(b) 2-3I | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| A R-Anderson | VN Commodore | 6000 | 3J(b) | 1 | 0 | 0 | | | | 0 | 1 |
| Jamie Augustine | Datsun 1200 | 3400 | 3J(a) | 0 | 0 | 0 | | | | 0 | 0 |
| G Kenneday | BMW E30 | 3200 | 3J(a) | 0 | 0 | 0 | | | | 0 | 0 |

What's news

Driving etiquette

Wayne Twist forwarded an article on driver etiquette. Here it is!

Pass with care. If you aren't sure you can pull off a move to pass an opponent, then don't do it. Take your time to work out where to make the move. If you are passing someone on the inside of a corner you must have your car at least 1 /2 way along side the other car (B pillar) before the car you are passing starts to turn in, to have the right to half the road in the corner, you must hold that inside line on the exit, you cannot run the car to the outside of the track.

If you are passing someone on the outside of a corner you must have your car at least 2/3 along side the other car (A pillar) before the car you are passing starts to turn in, to have the right to half the road in the corner, you must hold that outside line on the exit, you can not turn in on the inside car on the exit. If you do not get this done you must pull back behind the lead car. The car being passed has to give racing room. If you see an opening in the corner, you can then make a pass. But if you make contact you will have to pull back behind the car for you did not get your car up to the (B pillar) before the corner.

Kelvin

Now 4 years since our dedicated treasurer Kelvin Twist left us. Never forgotten.



New Toys

Kyosho I/I0 Nitro Touring Car Corvette



If you want a bit of fun without the expense, perhaps give a crack at some remote-control cars. The technology has developed to the extreme these days with as much adjustability and science involved as the real thing. Here's some specs on a current machine from Kysho....

User-friendly with mild control response, the FW-06 is the perfect introduction to GP touring cars and the performance of this amazing machine seems to evolve as your driving technique improves. 2-speed automatic transmission combines with the high-power GXR15 engine to make full use of the power band and maximize performance from KYOSHO's proven shaft-driven 4WD chassis.

With the same rear suspension as the World Champion V-ONE RRR with setting options and maintenance-friendly features only available on the latest racing machines, the FW-06 chassis also meets the demands of expert-level drivers.

All this performance is packed into a fully-assembled Readyset. Equipped with the 2.4GHz Syncro KT-231P transmitter, finding an open frequency is a problem of the past.

In addition to the dual-rate function, the KT-231P also features a failsafe function that automatically reduces the throttle if radio signal is interrupted. Simply switch the power on and you can be on the track and clocking race-winning times straight away.

Rear hubs and lower suspension arms used by the World Champion V-ONE RRR provide incredible setting options and high mechanical grip.



Oil shocks feature aluminium cases and threaded adjusters for stepless tension adjustment of the stylish white springs.

-) KYOSHO's proven centre-shaft drive 4WD provides light control response.
- Disk brakes deliver reliable and responsive braking control.
- Unique compact recoil starter without one-way clutch realizes lower resistance and starts the engine with a pull on the starter cord.
- Equipped with a total of 22 ball bearings for highlyefficient, full-bearing specification.
- Fitted with tuned muffler and large air cleaner.
- High-grip rubber tires with inner sponge supports are pre-glued onto wheels.
- Compatible with many FW-05 parts. *Not compatible with some parts.
- Includes plug heater (batteries sold separately) and fuel bottle.



2-speed automatic transmission included as standard tmakes effective use of the engine's power band. High-strength brake disk holder produces controllable braking power.

- Loaded with GXR15 engine with slide carburettor fitted with slow idle adjustment and return spring.
- Reliable universal swing shafts included on front.
- Turnbuckle tie-rods used for steering rod and rear upper arms for fully adjustable alignment.

A Meme....



Race Reports

Round 2, Winton by Luke Grech-Cumbo

A gloomy forecast was the talking point in the days leading up to Round 3 of the Victorian State Circuit Racing Championship at Winton. Thirty cars lined up for qualifying on a patchy drying track that provided a tricky set of challenges for the drivers. The two interstaters, Ray Hislop and Jordan Cox made the best of the conditions to put their cars 1 and 2 on the grid respectively. Tony Groves, the best of the Victorians put his Mazda RX7 on the second row of the grid alongside Andrew Butcher, Luke Grech-Cumbo and Andrew Morris rounding out the 3rd row. Tomic was the first of the under 2ltr Victorians qualifying in 8th place.

Race 1 was heeded with a warning on the dummy grid about oil on the track between turns 1 and 3 from a massive rollover in the Hyundai race before. A clean start down into turn 1 was as far as the race ran before a yellow flag and safety car was brought out to recover Luke Grech-Cumbo's car after breaking a diff on the run into turn 1. Unfortunately six cars missed the yellow flags and continued racing around the circuit for the remainder of the lap with all 6 drivers being excluded from the race and being forced to start from the back in race 2.

On the restart it was a close battle between Cox and Hislop, with Hislop crossing the line ahead of Cox only to be handed a 5 second penalty for weaving behind the safety car after the lights went out. The final result being Jordan Cox finishing in first place ahead of Ray Hislop and Tony Groves.

Adrian Taranto and Tony Groves had a run with Ray Hislop down into turn 10 with Taranto being squeezed off the road and taking a tour of the infield on lap 5, rejoining in 9th place and driving back up to 4th place.

Tomic led the Victorian 2ltrs home in 6th place ahead of Bryson Lloyd in 7th place and David Reaburn in 12th place.

Sunday morning brought us similar conditions to Saturday with the cars gridding up on a wet track for race two. A clean start was enjoyed by everyone with Taranto and his AWD Audi leading the field away into turn one with Jordan Cox and Ray Hislop running in second and third. Ray Hislop

take the lead on lap 6 with Cox following past the Audi of Taranto, the trio finishing in that order with Hislop crossing the line with Cox 12 seconds behind after Cox had a last lap spin challenging for the lead into the penultimate corner.

Tony Groves finished in 4th place with Luke Grech-Cumbo in fifth place with a recovery drive from 25th on the grid. Peter Dixon was the only casualty after breaking his steering rack in contact with another car in the latter stage of the race.

Race three the conditions finally improved and a mostly dry track greeted the field as the cars lined up. The dry conditions favoring the big horsepower of Hislop who outrun Cox in the drag race into turn one with Hislop never being challenged all the way to the finish crossing the line with a three second lead at the checkered flag over Cox.

The safety car was deployed on lap five to recover the stranded car of Brad Wyatt after his diff failed while running in ninth place.

Grech-Cumbo was lucky to get home while making up one spot to finish fourth after developing a misfire through the race while being pushed Andrew Morris who had a great run in his VH Commodore to finish in fifth place on track.

David Cocks, Bryson Lloyd and Velibor Tomic had a coming together at turn one on the restart with Tomic running wide through the infield and rejoining at turn two.

Andrew Butcher was a retirement in the final race after breaking a gear selector on lap four, ending a tough weekend for him after a spin in race two damaged the gearbox crossmember.

The varying conditions across the weekend providing action and passing in all three races across the weekend with close racing by many different cars was fantastic. Two rounds left in the championship still to come and we hope to see you all at Sandown for round 4.





WELCOME TO WINTON MOTOR RACEWAY THE NATION'S ACTION TRACK!

Round 4 - Sandown

Was pretty easy to look like a popular category at Sandown when some fields had 10 entry's and Sport Cars had 7. Anyway, IPRA had 34 eager participants show up for qualifying which lead to Luke Grech-Cumbo taking out the best time with a 01:18.80, pipping Ray Hislop to pole who had a best of 1:19.14. Grech-Cumbo was as excited as you could imagine, as he witnessed the Falcon of Hislops go bang underneath when a drive shaft sheared off, limited his qualifying season. Robert Braune in his super BMW E30 managed a 1:20.87 securing 6th position within a V8 powered top ten.

With all qualifiers starting race 1, Luke Grech-Cumbo got off to a good start before Ray Hislop's tyres came up to temperature which saw him move into top spot where he stayed for the remainder of the race. On a side note, the Stewards would not have been happy with the warmup formation, where the front runners entered Dandenong corner, while entrants were still coming on to the circuit from the dummy grid.

Grabbing third behind Grech-Cumbo was Paul Rule in the stalwart Torana who managed to keep in front of the newly

built VE Commodore of Ashley Wright. A point of interest from race 1, was the duels between various class cars of Reaburn, Paul Grziwotz, John Dawson, Wayne Twist, Malcom Henley and Rolf Mamers who's fastest lap times were separated by a mere 0.4 seconds. Notable drive of the round goes to David Cocks who started 7th and by the 2 lap was in 4th before having a slip onto the green stuff before the straight. Falling to 30th, he finished 23rd. No big deal some would say, other than he was driving with a broken foot!

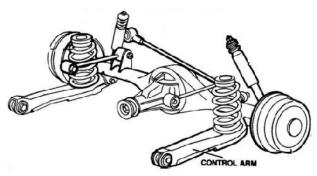
Hislop got all his stars to align for Race two, allowing his Falcon and he to pull of a lap record of 01:14.56R. Pretty impressive when you compare the time with the Sport Cars on the day.

With the safety car deployed, a repeat of Winton threatened with the participants David Reaburn and Velibor Tomic being penalised by 30s for passing under the waving yellow/SC flags. Race two finished off with the order of Hislop, Grech-Cumbo, Braune, Rule and Andrew Morris in the VH Commodore.

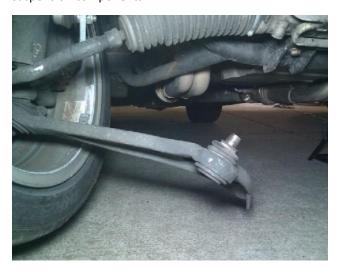
Race 3 ended up with a top 5 of Hislop, Grech-Cumbo Cocks, Rule and Braun.



Technical



We've all seen it, if not experienced something break on a race car. Engines, gearboxes, drive shafts, clutches, etc. are all reasons for dropped lower lips. Fortunately these sorts of failures usually result in the car rolling to a stop and parking it in a safe spot. Less forgiving componentry at failure includes brake rotors, wheels, steering racks and suspension components.



Above: A failure like a ball joint breaking off could be highly dangerous

All these failures have one thing in common... they are contributed to applying loads to things for which they are not designed to carry. Many would argue no explanation is needed as to why your tail shaft has failed, when your new race engine puts out twice the horsepower as a standard one. However.... racers often default to such a verdict, at the risk of missing a true root cause. In the case of a tail shaft it could be imbalance, longitudinal binding, fabrication quality, and misalignment.

What makes engineering an IPRA challenging in some regards is that many components cannot be upgraded or modified. The challenge is that these components are designed with a different set of load assumptions to that of a race car. If the designer was 'lean' and the components only designed to be just fit for purpose, then they have little capacity to endure the higher loads of racing.

Lets look at rear trailing suspension arms. They cannot be replaced or reinforced. However, some late and early model cars had suspension components (including arms) which didn't like being knocked around in normal road use. Take the car to the track, bolt on some good tyres, and these bits are even less happy. To allow for fatigue and to achieve long life, a trailing arm might be designed with a safety factor of 2. That is, its capable of surviving twice the maximum load the arm can see in service.

Now, there are three factors which in a race car greatly increases the load on a suspension arm. Adhesion of the tyre, spring load (if the spring base is on the arm) or spring bind. In Figure XX, the trailing arm can be treated as a beam being bent about the location of the spring. Upgrade your springs, you then increase the bending in the arm. The longitudinal loads generated by the tractive effort of the tyre exert axial compression on the arm. Structural designers call this combined actions, where basically the two loads are ganging up on the poor old arm.

Some Engineering.....

In the diagram below, the imagine the orange line is the arm. It pivots about the LHS where its attached to the body (the black triangle). The green arrow is the force from the drive of the tyre.



Figure 1 - Trailing arm loading from tractive effort

The drive force is compressing the trailing arm. Think of the arm being a plastic ruler. When you push on each end, it buckles (or bends) as per the dotted orange shape.

Now, lets put a spring in it. The blue arrow.

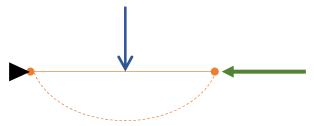


Figure 2 - Trailing arm loading from tractive effort and a spring

So now, our suspension arm is in compression, and bending. They combine and stress our arm so its sweating. That's ok. As that's what's its design for.

But... Now the owner of the arm has decided to do some track work and changed his springs for some on Ebay. They are 150% stiffer than original.

The trailing arm is now loaded to 150% of its original load assumptions. As it was designed with 200% capacity, all good.

Now that the owners cut 5 seconds off her Phillip Island Lap time, she's hungry for more speed and buys some Yokohama A050's from Traction. When hot, they have a coefficient of friction of 1 with weight transfer effects, whereas the original designer assumed the coefficient of friction of a radial tyre in 1977 was 0.8. Our green arrow above has now increased by 20%. In simplistic terms, our orange arm in our 1980 model car is now 100x1.5x1.2=180% utilised. There is sweating a bit, but still safe from a strength perspective. From a fatigue point of view, well, that's a story for another time.



Above: A buckled rear trailing arm

Now the owner is addicted, and has joined IPRA Vic, converted the car to IPRA Regs, and commissioned uncle Brian to build a hot new engine. The new engines a ripper, putting out 500ft/lb of torque. The designer adopted a torque of the biggest engine they had at the time which was 370ft/lb. 40% less than the uncle build screamer.

Our orange suspension arm now is loaded by 100x1.5x1.2x1.4=252%. Way past its limit of design.

So, Uncle Brian is standing on the pit roof viewing deck, excitedly listening to his new engine. He gets his Iphone 4 out to video his creation launch the 38 year old car south towards the Tasman. The flag drops, the prewarmed tyres bite, and the RHS suspension arm buckles, steering his niece into the path of a blue Falcon starting at the back of the grid..... splat.

A fictitious end to a technical insight to what we can do to bring tears to our race car components. Recommendations? Know your cars weak points. Nurture them. Inspect them. Respect what you are playing with.

In review

Mazda RX7

First generation (SA22C/FB)



Overview

Other names Mazda Savanna RX-7

Production 1978–1985, 471,018 produced

Designer Matasaburo Maeda (1976)

Body and chassis

Body Style 2 door coupe

Engines 1146 cc 12A

1146 cc 12A turbo 1308 cc 13B RE-EGI

Gearboxes 5-speed manual

4-speed manual

3-speed automatic

4-speed automatic

Dimensions

Wheelbase 2,420 mm (95 in)

Length 4,285 mm (169 in)

Width 1,675 mm (66 in)

Height 1,260 mm (50 in)

Curb weight 1,000-1,100kg

Mercedes Race car transporter

In a time when new freeways are designed for a 80km speed limit, we can take comfort that the world was once a sane place where engineers designed transporters to get you to the track ASAP!

The Mercedes Transporter was designed for a cruise speed of 90MPH on autobahns. Would have shaved 30min off the trip to Phillip Island from Melbourne! Except at that time, Vic autobahns had gravel on them.....

Built in 1955 by Mercedes testing department, it was nick named the 'Blue Wonder'. Unfortunately, it ended up parked for a couple of years, then relocated to a scrap yard. In its deep regret, Mercedes reconstructed a replacement. As you do...

Specification

- Cylinders 6
- Displacement 183 cu in
-) Output 192 hp (141 kW) at 5500RPM
- Top speed 106 mph





Above: Original Blue Wonder. Below: The recontruct.



Race Results

Round I – Winton

Qualifying

| Pos | Car | Driver | Competitor/Team | Vehicle | Cap CL | Laps | Fast | Time |
|-----|-----|------------------|--------------------------------|---------------------|--------|------|------|------------|
| 1 | 23 | Ray Hislop | RHM | Falcon BF | 6000 | 3 | 3 | 1:31.4846* |
| 2 | 11 | Jordan Cox | Cox Automotive | Honda | 2000 | 9 | 9 | 01:32.0 |
| 3 | 80 | Tony Groves | Mornington Mazda Racing | Mazda RX7 | 2340 | 7 | 7 | 01:33.5 |
| 4 | 59 | Andrew Butcher | Epilepsy Foundation | BMW E36 M3 | 3200 | 11 | 9 | 01:34.2 |
| 5 | 25 | Luke Grech-Cumbo | GC Electrical / No Fear Securi | HSV Senator | 6000 | 7 | 7 | 01:34.3 |
| 6 | 61 | Andrew Morris | Twocan Print | Holden VH Commodore | 5600 | 11 | 11 | 01:35.8 |
| 7 | 83 | Craig Caspersz | HES RACING | Mazda RX7 | 2354 | 12 | 7 | 01:36.0 |
| 8 | 72 | Velibor Tomic | Tomahawk Race Fab Advance Auto | Honda Integra | 1998 | 10 | 9 | 01:36.4 |
| 9 | 21 | Peter Dixon | Frankston Engine Centre | Monaro V2 | 6000 | 8 | 8 | 01:36.7 |
| 10 | 43 | Mathew Logan | Mack Trucks | Holden VE Commodore | 6000 | 8 | 6 | 01:36.9 |
| 11 | 28 | David Cocks | Bullas Building Consultants/Mc | Commodore VK | 6000 | 10 | 9 | 01:37.2 |
| 12 | 24 | Shane Williams | Zenam Racing | Mazda Rx7 | 2354 | 12 | 8 | 01:37.2 |
| 13 | 3 | Tony Moloney | Mt Noorat Freighters | HQ Holden | 5700 | 8 | 7 | 01:37.5 |
| 14 | 16 | Stephen Wan | | Honda | 2000 | 9 | 9 | 01:37.7 |
| 15 | 87 | Kevin Coulson | CMS Performance | Honda Civic | 1998 | 8 | 8 | 01:37.7 |
| 16 | 17 | Stephen Zourkas | STZ Constructions / PIARC | Subaru BRZ | 1998 | 12 | 8 | 01:38.1 |
| 17 | 48 | Brad Wyatt | | Holden Commodore VX | 6000 | 8 | 8 | 01:38.3 |
| 18 | 56 | Malcolm Henley | | Mazda RX7 | 2354 | 11 | 11 | 01:38.4 |
| 19 | 45 | Paul Grziwotz | Electrical Automation Solution | Honda Civic | 1998 | 9 | 8 | 01:38.6 |
| 20 | 41 | Mark Baldwin | | Honda Civic EG | 1998 | 7 | 7 | 01:38.7 |
| 21 | 38 | Adrian Taranto | | Audi S3 | 3200 | 6 | 5 | 01:38.9 |
| 22 | 46 | Bryson Lloyd | 2 State Electrical | Toyota Celica | 1798 | 12 | 10 | 01:39.5 |
| 23 | 19 | Wayne Twist | | BMW E46 | 3200 | 12 | 10 | 01:39.6 |
| 24 | 14 | Cameron McKee | truckrite.com.au / Navarone Pa | Falcon AU XR6 | 3998 | 7 | 7 | 01:40.7 |
| 25 | 30 | Grant Ogle | Laurie Ogle Motors | Ford Focus XR5 | 2521 | 11 | 9 | 01:41.3 |
| 26 | 47 | David Reaburn | | Mitsubishi Evo | 2000 | 11 | 10 | 01:41.5 |
| 27 | 35 | Tom Prentice | | Mazda 626 | 2500 | 9 | 5 | 01:42.0 |
| 28 | 33 | Matthew Leoncini | MTL Electrical & Controls Pty | Nissan Pulsar | 1598 | 11 | 11 | 01:43.9 |
| 29 | 29 | Marco Timperio | Allform Industries | Ford EA | 3900 | 11 | 4 | 01:44.9 |
| 30 | 68 | Jim West | Yogi Bear Racing | BMW E30 | 2500 | 10 | 10 | 01:46.1 |

8 Laps

Start Sat Jun 16 15:09 Elapsed Time 16:00

| Pos | Car | Driver | Competitor/Team | Vehicle | Сар | Laps | Fas | Fas Lap |
|-----|-----|----------------------|--------------------------------|---------------------|------|------|-----|------------|
| 1 | 11 | Jordan Cox | Cox Automotive | Honda | 2000 | 8 | 6 | 1:45.5225* |
| 2 | 23 | Ray Hislop | RHM | Falcon BF | 6000 | 8 | 8 | 01:48.32 |
| 3 | 80 | Tony Groves | Mornington Mazda Racing | Mazda RX7 | 2340 | 8 | 8 | 01:48.31 |
| 4 | 38 | Adrian Taranto | | Audi S3 | 3200 | 8 | 7 | 01:48.02 |
| 5 | 59 | Andrew Butcher | Epilepsy Foundation | BMW E36 M3 | 3200 | 8 | 8 | 01:49.38 |
| 6 | 72 | Velibor Tomic | Tomahawk Race Fab Advance Auto | Honda Integra | 1998 | 8 | 8 | 01:50.30 |
| 7 | 46 | Bryson Lloyd | 2 State Electrical | Toyota Celica | 1798 | 8 | 6 | 01:52.25 |
| 8 | 43 | Mathew Logan | Mack Trucks | Holden VE Commodore | 6000 | 8 | 8 | 01:51.63 |
| 9 | 3 | Tony Moloney | Mt Noorat Freighters | HQ Holden | 5700 | 8 | 7 | 01:49.29 |
| 10 | 28 | David Cocks | Bullas Building Consultants/Mc | Commodore VK | 6000 | 8 | 7 | 01:51.90 |
| 11 | 47 | David Reaburn | | Mitsubishi Evo | 2000 | 8 | 8 | 01:53.05 |
| 12 | 35 | Tom Prentice | | Mazda 626 | 2500 | 8 | 7 | 01:54.39 |
| 13 | 45 | Paul Grziwotz | Electrical Automation Solution | Honda Civic | 1998 | 8 | 8 | 01:52.48 |
| 14 | 48 | Brad Wyatt | | Holden Commodore VX | 6000 | 8 | 8 | 01:52.84 |
| 15 | 17 | Stephen Zourkas | STZ Constructions / PIARC | Subaru BRZ | 1998 | 8 | 8 | 01:53.74 |
| 16 | 30 | Grant Ogle | Laurie Ogle Motors | Ford Focus XR5 | 2521 | 8 | 8 | 01:55.84 |
| 17 | 24 | Shane Williams | Zenam Racing | Mazda Rx7 | 2354 | 8 | 8 | 01:55.76 |
| 18 | 61 | Andrew Morris | Twocan Print | Holden VH Commodore | 5600 | 8 | 8 | 01:53.99 |
| 19 | 19 | Wayne Twist | | BMW E46 | 3200 | 8 | 8 | 01:56.72 |
| 20 | 14 | Cameron McKee | truckrite.com.au / Navarone Pa | Falcon AU XR6 | 3998 | 8 | 8 | 01:58.61 |
| 21 | 29 | Marco Timperio | Allform Industries | Ford EA | 3900 | 8 | 8 | 01:58.63 |
| 22 | 68 | Jim West | Yogi Bear Racing | BMW E30 | 2500 | 7 | 6 | 02:06.90 |
| 23 | 56 | Malcolm Henley | | Mazda RX7 | 2354 | 7 | 3 | 02:11.37 |
| DNF | 33 | Matthew Leoncini | MTL Electrical & Controls Pty | Nissan Pulsar | 1598 | 3 | 3 | 02:05.82 |
| DNF | 25 | Luke Grech- Cumbo | GC Electrical / No Fear Securi | HSV Senator | 6000 | | | |
| EXC | 16 | Stephen Wan | | Honda | 2000 | | | |
| EXC | 21 | Peter Dixon | Frankston Engine Centre | Monaro V2 | 6000 | | | |
| EXC | 41 | Mark Baldwin | | Honda Civic EG | 1998 | | | |
| EXC | 83 | Craig Caspersz | HES RACING | Mazda RX7 | 2354 | | | |
| EXC | 87 | Kevin Coulson | CMS Performance | Honda Civic | 1998 | | | |

PENALTY APPLIED

Competitor# 16 Excluded

Competitor# 21 Excluded

Competitor# 23 5 Seconds Penalty

Competitor# 41 Excluded

Competitor# 83 Excluded

Competitor# 87 Excluded

Fastest Lap Av.Speed Is 102kph, Race Av.Speed Is 90kph Current Race Lap Record Is 1:29.8996 Set On 18/06/2017 By Christopher Brown In A Toyota AE86 Sprinter

9 Laps

Scheduled Start 10:35

Start Sun Jun 17 10:44

Elapsed Time 16:30

| Dan | C- " | | | | | CL | Fas | |
|-----|------|------------------|--------------------------------|---------------------|------|------|-----|------------|
| Pos | Car | Driver | Competitor/Team | Vehicle | Сар | Laps | Lap | Fas Time |
| 1 | 23 | Ray Hislop | RHM | Falcon BF | 6000 | 9 | 8 | 01:45.90 |
| 2 | 11 | Jordan Cox | Cox Automotive | Honda | 2000 | 9 | 8 | 1:45.3165* |
| 3 | 38 | Adrian Taranto | | Audi S3 | 3200 | 9 | 6 | 01:48.93 |
| 4 | 80 | Tony Groves | Mornington Mazda Racing | Mazda RX7 | 2340 | 9 | 6 | 01:49.48 |
| 5 | 25 | Luke Grech-Cumbo | GC Electrical / No Fear Securi | HSV Senator | 6000 | 9 | 7 | 01:48.96 |
| 6 | 46 | Bryson Lloyd | 2 State Electrical | Toyota Celica | 1798 | 9 | 8 | 01:50.06 |
| 7 | 3 | Tony Moloney | Mt Noorat Freighters | HQ Holden | 5700 | 9 | 7 | 01:50.17 |
| 8 | 72 | Velibor Tomic | Tomahawk Race Fab Advance Auto | Honda Integra | 1998 | 9 | 7 | 01:51.45 |
| 9 | 47 | David Reaburn | | Mitsubishi Evo | 2000 | 9 | 8 | 01:53.14 |
| 10 | 45 | Paul Grziwotz | Electrical Automation Solution | Honda Civic | 1998 | 9 | 9 | 01:53.10 |
| 11 | 28 | David Cocks | Bullas Building Consultants/Mc | Commodore VK | 6000 | 9 | 8 | 01:53.39 |
| 12 | 48 | Brad Wyatt | | Holden Commodore VX | 6000 | 9 | 4 | 01:54.10 |
| 13 | 33 | Matthew Leoncini | MTL Electrical & Controls Pty | Nissan Pulsar | 1598 | 9 | 4 | 01:56.29 |
| 14 | 41 | Mark Baldwin | | Honda Civic EG | 1998 | 9 | 7 | 01:54.37 |
| 15 | 35 | Tom Prentice | | Mazda 626 | 2500 | 9 | 4 | 01:55.31 |
| 16 | 43 | Mathew Logan | Mack Trucks | Holden VE Commodore | 6000 | 9 | 8 | 01:53.90 |
| 17 | 61 | Andrew Morris | Twocan Print | Holden VH Commodore | 5600 | 9 | 8 | 01:57.35 |
| 18 | 17 | Stephen Zourkas | STZ Constructions / PIARC | Subaru BRZ | 1998 | 9 | 6 | 01:57.51 |
| 19 | 24 | Shane Williams | Zenam Racing | Mazda Rx7 | 2354 | 8 | 6 | 01:59.52 |
| 20 | 19 | Wayne Twist | | BMW E46 | 3200 | 8 | 7 | 01:58.43 |
| 21 | 29 | Marco Timperio | Allform Industries | Ford EA | 3900 | 8 | 6 | 01:57.27 |
| 22 | 59 | Andrew Butcher | Epilepsy Foundation | BMW E36 M3 | 3200 | 8 | 3 | 01:54.14 |
| 23 | 14 | Cameron McKee | truckrite.com.au / Navarone Pa | Falcon AU XR6 | 3998 | 8 | 6 | 02:02.55 |
| 24 | 83 | Craig Caspersz | HES RACING | Mazda RX7 | 2354 | 8 | 6 | 01:59.17 |
| 25 | 16 | Stephen Wan | | Honda | 2000 | 8 | 6 | 01:53.64 |
| 26 | 68 | Jim West | Yogi Bear Racing | BMW E30 | 2500 | 8 | 7 | 02:03.03 |
| 27 | 56 | Malcolm Henley | | Mazda RX7 | 2354 | 8 | 7 | 02:03.25 |
| DNF | 21 | Peter Dixon | Frankston Engine Centre | Monaro V2 | 6000 | 7 | 7 | 01:51.95 |

Fastest Lap Av.Speed Is 103kph, Race Av.Speed Is 98kph

10 Laps

Scheduled Start 14:45

Start Sun Jun 17 14:47

Elapsed Time 18:15

| D | | | | | | CL | Fas | |
|----------|-----|------------------|--------------------------------|---------------------|------|------|-----|------------|
| Pos | Car | Driver | Competitor/Team | Vehicle | Сар | Laps | Lap | Fas Time |
| 1 | 23 | Ray Hislop | RHM | Falcon BF | 6000 | 10 | 5 | 1:31.3019* |
| 2 | 11 | Jordan Cox | Cox Automotive | Honda | 2000 | 10 | 5 | 01:31.7 |
| 3 | 80 | Tony Groves | Mornington Mazda Racing | Mazda RX7 | 2340 | 10 | 4 | 01:35.1 |
| 4 | 25 | Luke Grech-Cumbo | GC Electrical / No Fear Securi | HSV Senator | 6000 | 10 | 2 | 01:36.2 |
| 5 | 61 | Andrew Morris | Twocan Print | Holden VH Commodore | 5600 | 10 | 4 | 01:35.7 |
| 6 | 38 | Adrian Taranto | | Audi S3 | 3200 | 10 | 3 | 01:37.5 |
| 7 | 83 | Craig Caspersz | HES RACING | Mazda RX7 | 2354 | 10 | 5 | 01:37.7 |
| 8 | 28 | David Cocks | Bullas Building Consultants/Mc | Commodore VK | 6000 | 10 | 5 | 01:37.3 |
| 9 | 46 | Bryson Lloyd | 2 State Electrical | Toyota Celica | 1798 | 10 | 5 | 01:39.1 |
| 10 | 45 | Paul Grziwotz | Electrical Automation Solution | Honda Civic | 1998 | 10 | 5 | 01:38.8 |
| 11 | 3 | Tony Moloney | Mt Noorat Freighters | HQ Holden | 5700 | 10 | 4 | 01:37.0 |
| 12 | 24 | Shane Williams | Zenam Racing | Mazda Rx7 | 2354 | 10 | 3 | 01:39.2 |
| 13 | 47 | David Reaburn | | Mitsubishi Evo | 2000 | 10 | 2 | 01:40.8 |
| 14 | 72 | Velibor Tomic | Tomahawk Race Fab Advance Auto | Honda Integra | 1998 | 10 | 2 | 01:39.5 |
| 15 | 17 | Stephen Zourkas | STZ Constructions / PIARC | Subaru BRZ | 1998 | 10 | 5 | 01:39.8 |
| 16 | 43 | Mathew Logan | Mack Trucks | Holden VE Commodore | 6000 | 10 | 2 | 01:38.8 |
| 17 | 19 | Wayne Twist | | BMW E46 | 3200 | 10 | 4 | 01:39.9 |
| 18 | 16 | Stephen Wan | | Honda | 2000 | 10 | 3 | 01:37.8 |
| 19 | 56 | Malcolm Henley | | Mazda RX7 | 2354 | 10 | 5 | 01:38.8 |
| 20 | 14 | Cameron McKee | truckrite.com.au / Navarone Pa | Falcon AU XR6 | 3998 | 10 | 4 | 01:41.4 |
| 21 | 29 | Marco Timperio | Allform Industries | Ford EA | 3900 | 10 | 4 | 01:42.8 |
| 22 | 33 | Matthew Leoncini | MTL Electrical & Controls Pty | Nissan Pulsar | 1598 | 10 | 4 | 01:45.5 |
| 23 | 41 | Mark Baldwin | | Honda Civic EG | 1998 | 10 | 4 | 01:40.0 |
| DNF | 48 | Brad Wyatt | | Holden Commodore VX | 6000 | 4 | 4 | 01:38.8 |
| DNF | 59 | Andrew Butcher | Epilepsy Foundation | BMW E36 M3 | 3200 | 4 | 2 | 01:36.5 |

PENALTY APPLIED Competitor# 61 20 Points Penalty Fastest Lap Av.Speed Is 118kph, Race Av.Speed Is 99kph

Round 3 – Sandown

Qualifying

| Pos | Car | Driver | Competitor/Team | Vehicle | Сар | Laps | F/Lap | Time |
|-----|-----|---------------------|--------------------------------|--------------------|------|------|-------|----------|
| 1 | 25 | Luke Grech-Cumbo | GC Electrical Services No Fea | HSV Senator | 6000 | 5 | 4 | 01:18.80 |
| 2 | 23 | Raymond Hislop | | Ford BF Falcon | 6000 | 4 | 4 | 01:19.14 |
| 3 | 43 | Mathew Logan | Mack Trucks Castrol | VE Commodore | 6000 | 8 | 8 | 01:20.07 |
| 4 | 3 | Tony Moloney | | Holden HQ | 5700 | 8 | 7 | 01:20.14 |
| 5 | 44 | Paul Rule | Highbury Automotive Services | Holden Torana SS | 5800 | 8 | 8 | 01:20.73 |
| 6 | 86 | Robert Braune | Braune Supa Tune | Bmw E30 | 2860 | 8 | 8 | 01:20.87 |
| 7 | 28 | David Cocks | Bullas Building Consultants | Commodore VK | 6000 | 8 | 7 | 01:21.17 |
| 8 | 76 | Ashley Wright | Brown Davis Motorsport Lance | VE Commodore | 5998 | 7 | 7 | 01:21.57 |
| 9 | 61 | Andrew Morris | Twocan Print/Radiator Direct | Commodore VH | 5600 | 8 | 7 | 01:21.95 |
| 10 | 21 | Peter Dixon | Frankston Engine Centre | Holden V2 Monaro | 6000 | 8 | 8 | 01:22.18 |
| 11 | 83 | Craig Caspersz | H.E.S RACING. | MAZDA RX7 | 2354 | 6 | 5 | 01:22.62 |
| 12 | 77 | David Levy | DAVID LEVY MOTORSPORTS | BMW M3 | 3 | 6 | 6 | 01:22.93 |
| 13 | 48 | Brad Wyatt | Douglas Parade Motors | Commodore VX | 6000 | 8 | 8 | 01:22.98 |
| 14 | 38 | Adrian Taranto | Team Audvolks | Audi S3 | 3200 | 8 | 4 | 01:23.56 |
| 15 | 72 | Velibor Tomic | Advanced Autotronics / Tomahaw | Honda Integra | 1998 | 8 | 4 | 01:23.70 |
| 16 | 56 | Malcolm Henley | | Mazda RX7 | 2354 | 7 | 6 | 01:23.70 |
| 17 | 87 | Kevin Coulson | CMS Performance | Honda Civic | 1998 | 8 | 6 | 01:24.08 |
| 18 | 19 | Wayne Twist | | BMW E46 | 3200 | 8 | 6 | 01:24.46 |
| 19 | 45 | Paul Grziwotz | Electrical Automation Solution | Honda Civic | 1998 | 8 | 8 | 01:25.20 |
| 20 | 42 | John Dawson | | HOLDEN HQ | 5700 | 8 | 6 | 01:25.34 |
| 21 | 22 | Justin Kroussoratis | Ballarat City Mazda | Mazda RX7 | 2340 | 5 | 4 | 01:25.52 |
| 22 | 47 | David Reaburn | | Mitsubishi Evo | | 8 | 6 | 01:25.66 |
| 23 | 99 | Rolf Mamers | V-consult | Mazda RX7 Series 3 | 2316 | 8 | 6 | 01:26.64 |
| 24 | 14 | Cameron McKee | Truckrite.com.au / Ausfleet Ca | Ford AU XR6 | 3998 | 6 | 6 | 01:27.48 |
| 25 | 17 | Stephen Zourkas | STZ CONSTRUCTIONS | Subaru BRZ | 1998 | 8 | 5 | 01:27.64 |
| 26 | 49 | Anthony Johnson | Villawood Properties | BMW M3 | 3000 | 7 | 5 | 01:28.98 |
| 27 | 46 | Bryson Lloyd | 2 STATE ELECTRICAL | Toyota Celica | 1796 | 7 | 7 | 01:29.41 |
| 28 | 15 | lan McLennan | Pro-Cut Tree Services | Holden VZ Monaro | 5700 | 8 | 8 | 01:30.25 |
| 29 | 2 | Wayne Dekker | Bay Tech Automotive | Audi 80 Quattro | 2600 | 7 | 6 | 01:31.25 |
| 30 | 71 | Paul Vuillermin | JD Pro | Ford Falcon | 3900 | 4 | 4 | 01:31.56 |
| 31 | 24 | David Hassall | | Toyota 86 GTS | 1996 | 7 | 6 | 01:32.49 |
| 32 | 13 | Callum Jensen | MUH Motorsport | Peugeot 306 GTI6 | 1998 | 4 | 4 | 01:35.43 |
| 33 | 68 | James West | YOGI BEAR RACING | BMW E30 | 2500 | 7 | 7 | 01:35.85 |
| 34 | 10 | Rodney Lloyd | Laurie Ogle Motors - Shine Han | Mercedes Benz 190 | 2498 | 5 | 5 | 01:36.23 |
| | 73 | Matthew Leoncini | | Nissan Pulsar | 1596 | | | |

Fastest Lap Av.Speed Is 142kph, 130% Of First 1 Is 1:42.4448

| Pos | Car | Driver | Competitor/Team | Vehicle | Сар | Laps | F/Lap | F/Time |
|-----|-----|---------------------|--------------------------------|--------------------|------|------|-------|----------|
| 1 | 23 | Raymond Hislop | | Ford BF Falcon | 6000 | 9 | 4 | 01:16.72 |
| 2 | 25 | Luke Grech-Cumbo | GC Electrical Services No Fear | HSV Senator | 6000 | 9 | 2 | 01:19.37 |
| 3 | 44 | Paul Rule | Highbury Automotive Services | Holden Torana SS | 5800 | 9 | 7 | 01:19.64 |
| 4 | 76 | Ashley Wright | Brown Davis Motorsport Lance | VE Commodore | 5998 | 9 | 4 | 01:20.40 |
| 5 | 43 | Mathew Logan | Mack Trucks Castrol | VE Commodore | 6000 | 9 | 7 | 01:20.99 |
| 6 | 21 | Peter Dixon | Frankston Engine Centre | Holden V2 Monaro | 6000 | 9 | 6 | 01:21.40 |
| 7 | 61 | Andrew Morris | Twocan Print/Radiator Direct | Commodore VH | 5600 | 9 | 2 | 01:20.50 |
| 8 | 86 | Robert Braune | Braune Supa Tune | Bmw E30 | 2860 | 9 | 7 | 01:19.02 |
| 9 | 83 | Craig Caspersz | H.E.S RACING. | MAZDA RX7 | 2354 | 9 | 2 | 01:22.90 |
| 10 | 48 | Brad Wyatt | Douglas Parade Motors | Commodore VX | 6000 | 9 | 5 | 01:22.44 |
| 11 | 77 | David Levy | DAVID LEVY MOTORSPORTS | BMW M3 | 3 | 9 | 9 | 01:23.02 |
| 12 | 22 | Justin Kroussoratis | Ballarat City Mazda | Mazda RX7 | 2340 | 9 | 8 | 01:23.50 |
| 13 | 38 | Adrian Taranto | Team Audvolks | Audi S3 | 3200 | 9 | 8 | 01:23.56 |
| 14 | 72 | Velibor Tomic | Advanced Autotronics / Tomah | Honda Integra | 1998 | 9 | 7 | 01:23.49 |
| 15 | 87 | Kevin Coulson | CMS Performance | Honda Civic | 1998 | 9 | 9 | 01:23.47 |
| 16 | 47 | David Reaburn | | Mitsubishi Evo | | 9 | 6 | 01:24.60 |
| 17 | 45 | Paul Grziwotz | Electrical Automation Solution | Honda Civic | 1998 | 9 | 8 | 01:24.67 |
| 18 | 19 | Wayne Twist | | BMW E46 | 3200 | 9 | 9 | 01:24.91 |
| 19 | 42 | John Dawson | | HOLDEN HQ | 5700 | 9 | 2 | 01:24.64 |
| 20 | 56 | Malcolm Henley | | Mazda RX7 | 2354 | 9 | 4 | 01:24.51 |
| 21 | 99 | Rolf Mamers | V-consult | Mazda RX7 Series 3 | 2316 | 8 | 7 | 01:24.75 |
| 22 | 71 | Paul Vuillermin | JD Pro | Ford Falcon | 3900 | 8 | 6 | 01:26.35 |
| 23 | 28 | David Cocks | Bullas Building Consultants | Commodore VK | 6000 | 8 | 2 | 01:21.33 |
| 24 | 15 | lan McLennan | Pro-Cut Tree Services | Holden VZ Monaro | 5700 | 8 | 5 | 01:26.33 |
| 25 | 17 | Stephen Zourkas | STZ CONSTRUCTIONS | Subaru BRZ | 1998 | 8 | 8 | 01:26.51 |
| 26 | 14 | Cameron McKee | Truckrite.com.au / Ausfleet Ca | Ford AU XR6 | 3998 | 8 | 4 | 01:27.49 |
| 27 | 49 | Anthony Johnson | Villawood Properties | BMW M3 | 3000 | 8 | 5 | 01:27.84 |
| 28 | 46 | Bryson Lloyd | 2 STATE ELECTRICAL | Toyota Celica | 1796 | 8 | 8 | 01:28.65 |
| 29 | 2 | Wayne Dekker | Bay Tech Automotive | Audi 80 Quattro | 2600 | 8 | 4 | 01:29.52 |
| 30 | 24 | David Hassall | | Toyota 86 GTS | 1996 | 8 | 7 | 01:32.38 |
| 31 | 73 | Matthew Leoncini | | Nissan Pulsar | 1596 | 8 | 3 | 01:32.74 |
| 32 | 68 | James West | YOGI BEAR RACING | BMW E30 | 2500 | 8 | 6 | 01:35.19 |
| 33 | 10 | Rodney Lloyd | Laurie Ogle Motors - Shine Han | Mercedes Benz 190 | 2498 | 7 | 6 | 01:35.71 |
| DNF | 3 | Tony Moloney | | Holden HQ | 5700 | 1 | 1 | 01:29.04 |

| Pos | Car | Driver | Competitor/Team | Vehicle | Сар | Laps | F/Lap | F/Time |
|-----|-----|---------------------|--------------------------------|----------------------|------|------|-------|------------------------|
| 1 | 23 | Raymond Hislop | | Ford BF Falcon | 6000 | 11 | 2 | <mark>01:14.56R</mark> |
| 2 | | Luke Grech- | | | | | | |
| | 25 | Cumbo | GC Electrical Services No Fea | HSV Senator | 6000 | 11 | 5 | 01:19.19 |
| 3 | 86 | Robert Braune | Braune Supa Tune | Bmw E30 | 2860 | 11 | 4 | 01:19.11 |
| 4 | 44 | Paul Rule | Highbury Automotive Services | Holden Torana SS | 5800 | 11 | 3 | 01:19.33 |
| 5 | 61 | Andrew Morris | Twocan Print/Radiator Direct | Commodore VH | 5600 | 11 | 5 | 01:20.45 |
| 6 | 43 | Mathew Logan | Mack Trucks Castrol | VE Commodore | 6000 | 11 | 5 | 01:20.03 |
| 7 | 28 | David Cocks | Bullas Building Consultants | Commodore VK | 6000 | 11 | 4 | 01:20.60 |
| 8 | 21 | Peter Dixon | Frankston Engine Centre | Holden V2 Monaro | 6000 | 11 | 3 | 01:21.10 |
| 9 | 48 | Brad Wyatt | Douglas Parade Motors | Commodore VX | 6000 | 11 | 4 | 01:23.60 |
| 10 | 38 | Adrian Taranto | Team Audvolks | Audi S3 | 3200 | 11 | 2 | 01:23.67 |
| 11 | 83 | Craig Caspersz | H.E.S RACING. | MAZDA RX7 | 2354 | 11 | 4 | 01:21.62 |
| 12 | 22 | Justin Kroussoratis | Ballarat City Mazda | Mazda RX7 | 2340 | 11 | 5 | 01:23.52 |
| 13 | 77 | David Levy | DAVID LEVY MOTORSPORTS | BMW M3 | 3 | 11 | 4 | 01:23.13 |
| 14 | 56 | Malcolm Henley | | Mazda RX7 | 2354 | 11 | 4 | 01:23.24 |
| 15 | 19 | Wayne Twist | | BMW E46 | 3200 | 11 | 5 | 01:24.28 |
| 16 | 42 | John Dawson | | HOLDEN HQ | 5700 | 11 | 11 | 01:24.28 |
| 17 | 45 | Paul Grziwotz | Electrical Automation Solution | Honda Civic | 1998 | 11 | 5 | 01:25.20 |
| 18 | 87 | Kevin Coulson | CMS Performance | Honda Civic | 1998 | 11 | 5 | 01:23.63 |
| 19 | 15 | lan McLennan | Pro-Cut Tree Services | Holden VZ Monaro | 5700 | 11 | 4 | 01:26.52 |
| 20 | 71 | Paul Vuillermin | JD Pro | Ford Falcon | 3900 | 11 | 5 | 01:25.57 |
| 21 | 47 | David Reaburn | | Mitsubishi Evo | | 11 | 4 | 01:23.92 |
| 22 | 72 | Velibor Tomic | Advanced Autotronics / Toma | Honda Integra | 1998 | 11 | 3 | 01:24.65 |
| 23 | 17 | Stephen Zourkas | STZ CONSTRUCTIONS | Subaru BRZ | 1998 | 10 | 4 | 01:26.92 |
| 24 | 14 | Cameron McKee | Truckrite.com.au / Ausfleet Ca | Ford AU XR6 | 3998 | 10 | 3 | 01:28.61 |
| 25 | 46 | Bryson Lloyd | 2 STATE ELECTRICAL | Toyota Celica | 1796 | 10 | 3 | 01:29.75 |
| 26 | 49 | Anthony Johnson | Villawood Properties | BMW M3 | 3000 | 10 | 3 | 01:28.60 |
| 27 | 2 | Wayne Dekker | Bay Tech Automotive | Audi 80 Quattro | 2600 | 10 | 4 | 01:31.10 |
| 28 | 73 | Matthew Leoncini | | Nissan Pulsar | 1596 | 10 | 5 | 01:30.65 |
| 29 | 24 | David Hassall | | Toyota 86 GTS | 1996 | 10 | 5 | 01:31.06 |
| 30 | 10 | Rodney Lloyd | Laurie Ogle Motors - Shine Han | Mercedes Benz 190E 2 | 2498 | 10 | 3 | 01:35.17 |
| 31 | 68 | James West | YOGI BEAR RACING | BMW E30 | 2500 | 10 | 2 | 01:35.38 |
| DNF | 99 | Rolf Mamers | V-consult | Mazda RX7 Series 3 | 2316 | 5 | 5 | 01:25.54 |
| DNF | 76 | Ashley Wright | Brown Davis Motorsport | Holden VE Commodore | 5998 | 3 | 2 | 01:18.95 |

PENALTY APPLIED

Competitor# 47 30 Seconds Penalty Competitor# 72 30 Seconds Penalty Competitor# 83 5 Seconds Penalty

| Pos | Car | Driver | Competitor/Team | Vehicle | Сар | Laps | F/Lap | F/Time |
|-----|-----|---------------------|--------------------------------|-------------------|------|------|-------|----------|
| 1 | 23 | Raymond Hislop | | Ford BF Falcon | 6000 | 9 | 4 | 01:16.82 |
| 2 | 25 | Luke Grech-Cumbo | GC Electrical Services No Fea | HSV Senator | 6000 | 9 | 8 | 01:19.39 |
| 3 | 28 | David Cocks | Bullas Building Consultants | Commodore VK | 6000 | 9 | 8 | 01:19.71 |
| 4 | 44 | Paul Rule | Highbury Automotive Services | Holden Torana SS | 5800 | 9 | 4 | 01:19.01 |
| 5 | 86 | Robert Braune | Braune Supa Tune | Bmw E30 | 2860 | 9 | 4 | 01:19.57 |
| 6 | 61 | Andrew Morris | Twocan Print/Radiator Direct | Commodore VH | 5600 | 9 | 9 | 01:21.18 |
| 7 | 43 | Mathew Logan | Mack Trucks Castrol | VE Commodore | 6000 | 9 | 9 | 01:20.61 |
| 8 | 21 | Peter Dixon | Frankston Engine Centre | Holden V2 Monaro | 6000 | 9 | 3 | 01:21.64 |
| 9 | 76 | Ashley Wright | Brown Davis Motorsport Lance | VE Commodore | 5998 | 9 | 4 | 01:20.04 |
| 10 | 83 | Craig Caspersz | H.E.S RACING. | MAZDA RX7 | 2354 | 9 | 4 | 01:22.68 |
| 11 | 38 | Adrian Taranto | Team Audvolks | Audi S3 | 3200 | 9 | 7 | 01:23.92 |
| 12 | 42 | John Dawson | | HOLDEN HQ | 5700 | 9 | 5 | 01:24.10 |
| 13 | 19 | Wayne Twist | | BMW E46 | 3200 | 9 | 4 | 01:23.89 |
| 14 | 77 | David Levy | DAVID LEVY MOTORSPORTS | BMW M3 | 3 | 9 | 7 | 01:23.72 |
| 15 | 71 | Paul Vuillermin | JD Pro | Ford Falcon | 3900 | 9 | 3 | 01:24.40 |
| 16 | 47 | David Reaburn | | Mitsubishi Evo | | 9 | 7 | 01:24.46 |
| 17 | 72 | Velibor Tomic | Advanced Autotronics / Toma | Honda Integra | 1998 | 9 | 7 | 01:24.12 |
| 18 | 22 | Justin Kroussoratis | Ballarat City Mazda | Mazda RX7 | 2340 | 9 | 5 | 01:23.71 |
| 19 | 45 | Paul Grziwotz | Electrical Automation Solution | Honda Civic | 1998 | 9 | 5 | 01:25.47 |
| 20 | 15 | lan McLennan | Pro-Cut Tree Services | Holden VZ Monaro | 5700 | 8 | 4 | 01:26.02 |
| 21 | 56 | Malcolm Henley | | Mazda RX7 | 2354 | 8 | 5 | 01:25.89 |
| 22 | 17 | Stephen Zourkas | STZ CONSTRUCTIONS | Subaru BRZ | 1998 | 8 | 4 | 01:26.98 |
| 23 | 14 | Cameron McKee | Truckrite.com.au / Ausfleet | Ford AU XR6 | 3998 | 8 | 5 | 01:27.48 |
| 24 | 46 | Bryson Lloyd | 2 STATE ELECTRICAL | Toyota Celica | 1796 | 8 | 4 | 01:27.47 |
| 25 | 49 | Anthony Johnson | Villawood Properties | BMW M3 | 3000 | 8 | 8 | 01:29.06 |
| 26 | 2 | Wayne Dekker | Bay Tech Automotive | Audi 80 Quattro | 2600 | 8 | 6 | 01:29.48 |
| 27 | 73 | Matthew Leoncini | | Nissan Pulsar | 1596 | 8 | 8 | 01:29.85 |
| 28 | 24 | David Hassall | | Toyota 86 GTS | 1996 | 8 | 4 | 01:32.32 |
| 29 | 10 | Rodney Lloyd | Laurie Ogle Motors - Shine Han | Mercedes Benz 190 | 2498 | 8 | 7 | 01:34.14 |
| 30 | 68 | James West | YOGI BEAR RACING | BMW E30 | 2500 | 8 | 3 | 01:35.00 |
| DNF | 48 | Brad Wyatt | Douglas Parade Motors | Commodore VX | 6000 | | | |