



Penrith District Nitro Racing Inc.

2007 CHARITY CHALLENGE

*Oran Park Raceway, December 16, 2007
Part of the Oran Park Kids Race Day*

OFFICIAL RACE PROGRAM



The Oran Park Kids Race Day is organised by the Rotary Club of St George Central Inc.



WELCOME FROM PDNR

Penrith District Nitro Racing Inc. (PDNR) would like to extend a huge welcome to all kids, mums, dads, drivers and supporters to the 2007 PDNR Charity Challenge. We are all very excited to be back again, with this year the milestone 5th year the PDNR Charity Challenge has been held, and the 6th year that PDNR have been part of the Oran Park Kids Race Day.

The Oran Park Kids Race Day aims to provide 'Motorsport Therapy' for children and young people who have been affected by physical disabilities or illnesses such as cancer.

PDNR introduced the Charity Challenge to show the young people, and the greater motorsport community what radio control racing is all about, while having fun and helping to raise funds for many worthwhile causes. All proceeds from the 2007 Charity Challenge, along with funds raised from the PDNR Charity Auction and Raffles will be donated to the Rotary Club of St George Central Inc., who in addition to organising the Kids Race Day, raise funds for many charity organisations such as:

- Camp Quality
- Sailability
- Father Chris Riley's 'Youth Off The Streets'
- Sylvanvale School
- Busby West Public School - special needs class
- Hand Brake Turn

PDNR have a very action packed and exciting program. You will see free test drives for the kids, demonstration races, RC vs Real car Drag Race, Dunny Demolition Derby and the 2007 Charity Challenge Racing.

We would like to thank the Rotary Club of St George Central Inc. for the opportunity to once again be part of the Oran Park Kids Race Day.

We would also like to thank our event sponsors, Graham's Hobby Centre, Auswide Hobbies & Collectables, Caster Racing (JPM Racing), Grahame Jones and Custom T-Shirts & Trophies for their generous sponsorship of this event.

We hope you enjoy the action and if you would like more information on PDNR you can visit our website – www.pdnracing.org.au

EVENT SAFETY

Motor racing is a dangerous sport. Spectators, visitors, entrants and officials agree to the terms and conditions in viewing or participation in this event as displayed on notice boards around the facility. To ensure the safety of spectators, marshals and pit crew, please follow a few simple rules;

- Spectators must not enter the track area as marked by the bunting.
- Pit crew and drivers must not enter onto the track.
- Marshals must wear the provided safety vests.
- Drivers must not use their radios without a radio peg.

All drivers and pit crew must have covered footwear to be allowed inside the bunted area.

OTHER ACTIVITIES

The Kids Race Day is packed full of things to see and do. In addition to the RC action organised by PDNR, there are heaps of other activities. Some of the other attractions are hot laps around the main circuit, 4WD's on the Off Road Course, Rally Driving, static displays and many car clubs have shows and demonstrations.

Santa Claus will be the special guest arriving with a parade lap around the main circuit, and there will be many other displays on the track including stunt bikes, drift cars, and tyre blowing burn-outs.

During the lunch break PDNR will again be challenging a full size 1:1 car to a drag race down the front straight with an RC car – so keep an eye and ear out for that!

We hope you have a great day at the 2007 Oran Park Kids Race Day!



EVENT SCHEDULE

Time	Event
7:00am	Open Practice
7:30am	Driver Registration and Check-in
8:30am	Concourse Display and Official Group Photographs
8:45am	Drivers Meeting for Charity Challenge Drivers
9:00am	Round 1 Qualifying (5 minute heats)
10:15am	Kids Race Day Free Test Drives - Session 1
10:45am	Round 2 Qualifying (5 minute heats)
12:00am	Kids Race Day Free Test Drives - Session 2
12:30pm	C Final – Open Tourer (10 minute race)
12:45pm	B Final – Open Tourer (10 minute race)
1:10am	Kids Race Day Free Test Drives - Session 3
1:40 pm	Demonstration Races (During Lunch Break)
1:40 pm	Lunch Break (40 minutes)
<i>1:30 pm</i>	<i>To 2:20pm - Session 7 – Nitro Drag Race Challenge</i>
2:30 pm	A Final – Junior (5 minute race)
2:40 pm	A Final – Open Pan (15 minute race)
3:00 pm	A Final – Off Road (15 minute race)
3:20 pm	A Final – Pull Start (15 minute race)
3:40 pm	A Final – Open Tourer (15 minute race)
4:15 pm	Demonstration Race – Dunny Derby
4:45 pm	Presentation & close
<i>The above information is a guide only and may change without notice</i>	

THE PDNR CHARITY CHALLENGE

The PDNR Charity Challenge was introduced to show the young people and the motor sport community what radio control racing is all about, while having fun and helping to raise funds for many worthwhile causes. This year is the 5th running of the Charity Challenge making it PDNR's longest running event in the clubs history.

In the Charity Challenge, each class has two 5 minute qualifying sessions. In qualifying, every driver is racing against the clock to try and get the best result they can. Qualifying is based on time, and the driver who completes the most number of laps in 5 minutes qualifies in 1st place. The top 10 drivers from each division at the end of qualifying progress to the A Final. Finals are a longer race, between 10 and 15 minutes, meaning cars will need to complete pit stops for fuel – just like the real cars.

To keep count of the laps, each car is fitted with a transponder for computerised race timing and lap counting. When they pass under the bridge, the computer detects their lap and records time and position.

THE DUNNY DERBY



A major highlight of the Charity Challenge is the Demolition Dunny Derby. The race track becomes a cauldron as the drivers do battle, trying to destroy their opponents balsa wood dunny. The winner is usually the last dunny standing, but this year there is more up for grabs. Auswide Hobbies & Collectables have sponsored this event and have donated a trophy that will be awarded to the most entertaining Dunny Derby entrant....should be a good one to watch.

The Dunny Derby is planned to start at approx 4:15pm

WHAT ARE THEY RACING?

All cars entered in the Charity Challenge are known as scale Radio Control cars. Most are what we call “Nitro Powered” featuring an Internal Combustion (IC) Glow Engine. To accommodate cars of different configurations and performance, there are a variety of classes or divisions for this event.

- Open Tourer This is for 200mm Touring Cars using a maximum 2.11cc performance motors or maximum 2.5cc kit motors.
- Pull Start This is for 200mm Touring Cars using up to 2.5cc motors with a pull start.
- Open Pan This is for 1/8 scale and 1/10 scale pan cars. These typically use up to 3.5cc open motor, and are often referred to as the Formula 1 of Nitro RC.
- Off Road This is for Off Road trucks and buggies, most of which would be 1/8 scale with 3.5cc to 5.0cc engines.
- Junior The Junior class can race any 1/10 vehicle, Nitro or Electric.

Manufacturers of scale cars will not be familiar household names. Kyosho, Mugen Seiki, Caster Racing, HPI, Traxxas, Serpent, GV, Tamiya and Colt are some of the more well known brands of RC cars. For the enthusiast some of the cars are available in kit form, but the majority now come Ready-to-Run or RTR having been assembled in the factory. There are many after market upgrades and hop ups available, just like regular full sized cars.

All Ready-to-Run cars have a motor installed when they leave the shop. Most Kit (ie. Box of parts!) cars require an engine to be purchased separately. The vast majority of motors are two stroke using glow plug ignition. Popular brand names include RB, OS, STS, Tech-Well, Novarossi, Ninja, and Force to name just a few.

Radio equipment is either supplied with most pre-built cars, or purchased separately, with brands such as Futaba, Hitec, JR and Ko Propo common. The radio equipment consists of several components – a transmitter that the driver uses, a receiver and battery pack in the car, and two servos that are used to control the throttle, brake and steering.



UNDER THE BODY

All cars have a clear polycarbonate body that is painted on the inside. Body shape can vary widely from scaled down supercars such as Ferrari and Lamborghini to Lolas and even the mighty mini. The Charity Challenge places special emphasis on the Kids and many drivers have painted up their bodies in that theme – Look for Lightening McQueen and other V8 Supercars on the track!

When it comes to what is under the body, the items are very similar, just the placement varies between manufacturers. Materials used in the cars construction vary from aluminium alloys and moulded plastic components through to titanium, carbon fibre and carbon composites.



Chassis	Holds everything together. Usually aluminium alloy and between 3mm and 4mm thick. The chassis is strengthened by a separate top deck.
Wheels	One on each corner. Front are between 24mm and 26mm wide. Rear are between 24mm and 30mm wide. Can either be rubber compound or solid foam, with different hardness' available.
Engine	Single cylinder, two stroke with glow plug. Capacity measured in cubic inches. .12 is 2.1cc. It is not uncommon for high performance engines to reach 40,000 rpm. Engines may be either started with a starter box, or if fitted, a pull starter.
Exhaust	Many cars use a 'tuned' pipe to maximise engine performance. You may notice a small pipe joining the exhaust to the fuel tank. This is positively pressurise the fuel system.
Fuel Tank	The fuel tank contains 75mL of fuel. This is enough for between 5 and 8 minutes racing.
Driver	Doesn't sit in the car. The car is controlled via a radio control using two servos, one for steering and the other for throttle and braking.
Transmission	One or two speed automatic gearbox. All cars utilize a 4WD system for maximum performance. Power transmission may be via a belt drive or shaft drove system.

V8 SUPERCAR vs RC 1/10 OPEN TOURER

	V8 Supercar	1/10 Open Tourer
Wheels Width Diameter Compound	4 11" (279mm) 17" (430mm) Dunlop Control Tyre	4 26mm (front) 30mm (rear) 65mm new incl. tyre Foam or rubber
Body Construction Seats	4 Door Sedan Pressed Steel 1	4 Door Sedan Polycarbonate None
Chassis Width Length Ride Height Weight	Steel with roll cage. Min 1355kg	Aluminium alloy 200mm ~420mm 4mm to 6mm Min 1725g
Fuel Type Capacity Est. Endurance	Shell Optimax ® Petrol 120L	16% Nitromethane 8% Oil 76% Methyl Alcohol 75mL ~6 minutes
Engine Size Cylinders Stroke Max RPM Cooling	5 litres 8 4 ~7500 Water cooled	2.1cc 1 2 ~35,000 - 40,000 Air cooled
Telemetry	Car to pit data only	Pit to car including steering, accelerator and braking
Transmission Type Rear Diff Front Diff	2WD 6 Speed Manual 9 inch Doesn't have one	4WD 2 Speed Automatic Traction Control Differential (TCD) One-way or Locked
Brake	Four wheel ventilated disks. Front 6 piston ~370mm, rear 4 piston ~330mm	Single 30mm disk brake on central drive shaft with APP® brake pads
Speed 0-100km/h Max speed	4.0 s ~290km	Doesn't go that fast. ~85-90km/h

DRIVER ENTRY LIST

Graham's Hobby Centre	
OPEN TOURER	
101	Tony Firth
102	Ray Wallace
103	Greg Rossiter
104	Wayne Thomas
105	Steve O'Connor
106	Luke Gunton
107	Nick Janjic
108	Steve Valletta
109	Rod Morgan
110	David Lo Iacono
111	Charles Pilotto
112	Matt Ferguson
113	Chris Stanley
114	John Bates
115	Phil Woodbury
116	Matt Russell
117	Brett Quarm
118	Darrell Thompson
119	Ray Azzopardi
120	Scott Marks
121	Bradley Stuart

Caster Racing	
OFF ROAD	
301	Greg Rossiter
302	Kim O'Connor
303	Mark Laidler
304	Jye Laidler
305	Charles Pilotto
306	Scott Marks
307	Ray Azzopardi
308	Matt Oxford
309	Nathan Egan
310	Barry Gavin

Auswide Hobbies	
OPEN PAN	
401	Steve O'Connor
402	Michael Turner
403	Darrell Thompson
404	Kevin Maton
405	Steve Valletta
406	Matt Russell

Grahame Jones	
PULL START	
201	Barry Gavin
202	Steve Valletta
203	Chris Stanley
204	John Bates
205	Jonathan Lo Iacono
206	Shaun Kaltenbacher
207	Graham McMillan

Custom T-Shirts & Trophies	
JUNIOR	
601	Rhiannon Wallace
602	Blake Wallace
603	Rhys O'Connor
604	David Turner
605	Patrick Turner

DRIVER EQUIPMENT LIST

OPEN TOURER								
#	Name	Chassis	Motor	Radio	Tyre	Fuel	Body	Sponsor / Supporter
1	Tony Firth	Kyosho RRR Evo	RB	Futaba 3PK	ATS	Meccamo	Blitz	Grahams Hobbies / JPM Racing
2	Ray Wallace	Kyosho RRR	OS SPEED	Futaba 3PK	Enetti	AT	Mazda 6	Duramould Stripes & Signs
3	Greg Rossiter	G4S	OS-12	Speltrum	ATS	Meccamo		
4	Wayne Thomas	Kyosho RRR	RB Matrix	Futaba 3PK	ZAC	Meccamo	Kawahara	
5	Steve O'Connor	Serpent 720	RB Matrix	Futaba 3PK	ATS	Meccamo		Serpent Australia
6	Luke Gunton	Kyosho RRR Evo	Kyosho CRF	Futaba 3PK	ATS	Meccamo	Mazda 6	BG Enterprises / Auswide Hobbies / Rexel Penrith
7	Nick Janic	XRAY NT1	RB Matrix	Futaba 3PK	ATS	Meccamo	Blitz	JPM Racing / Auswide
8	Steve Valletta	Kyosho RRR Evo	OS SPEED	Futaba 3PK	Enetti	Meccamo	Proline	Grahams Hobby Centre
9	Rod Morgan	Kyosho RR	OS TZ	Hitec	Enetti	Meccamo	Mazda 6	Mortech Racing
10	David Lo Iacono	Team Magic	JP	Speltrum	ATS	Meccamo	Altise	Auswide Hobbies & Collectables
11	Charles Pilotto	Kyosho RR Evo	Novarossi	Speltrum	Enetti	Meccamo	Proline	CP Racing
12	Matt Ferguson							
13	Chris Stanley	XRAY NT1	RB	Spektrum	ATS	Meccamo	Rides	Auswide Hobbies
14	John Bates	Kyosho RRR	RB	Futaba	ATS	Meccamo	Blitz	Auswide Hobbies
15	Phil Woodbury	Kyosho RRR	RB	Futaba	ATS	Meccamo	Blitz	JPM Racing
16	Matt Russell	XRAY NT1	RB	Futaba	ATS	Meccamo	Blitz	JPM Racing
17	Brett Quarm	Kyosho RRR	RB	Futaba	ATS	Meccamo	Mazda 6	Grahams Hobby Centre
18	Darrell Thompson	KV1	SH	Spektrum	ATS	Meccamo	Proline	Rimtel
19	Ray Azzopardi	Mugen	RB	Futaba	ZAC	Meccamo	Stratus	
20	Scott Marks	G4S	STS	Spektrum	ATS	0.16	Stratus	Tool Aus
21	Bradley Stuart	Kyosho RRR	Mega	Futaba		Meccamo	Mazda 6	

PULL START								
#	Name	Chassis	Motor	Radio	Tyre	Fuel	Body	Sponsor / Supporter
1	Barry Gavin	Kyosho	Kyosho	Spektrum		0.160	Kyosho	Barry Gavin Racing
2	Steve Valletta	Kyosho	RB	Futaba 3PK	Enetti	Meccamo	Proline	Grahams Hobby Centre
3	Chris Stanley	Kyosho	RB	Spektrum	ATS	Meccamo	Ride	Auswide Hobbies
4	John Bates	Kyosho	RB	Futaba 3PK	ATS	Meccamo	Blitz	Auswide Hobbies
5	Jonathan Lo Iacono	Kyosho	RB	Spektrum	ATS	Meccamo		
6	Shaun Kaltenbacher	Kyosho						
7	Graham McMillan	Hyper GPX4	Hyper			Meccamo	Blitz	Barclays Hobbies
8								
9								
10								

OPEN PAN								
#	Name	Chassis	Motor	Radio	Tyre	Fuel	Body	Sponsor / Supporter
1	Steve O'Connor	Serpent 960	RB	Futaba 3PK	ATS	Meccamo	Serpent	Serpent Australia
2	Michael Turner	Kyosho Evolva	RB	Futaba 3PK	ATS	Meccamo	Blitz	Grahams Hobbies / JPM Racing
3	Darrell Thompson	Serpent 835	Mega	Spektrum	MS	Meccamo	Parma	Rimtel
4	Kevin Maton	Migen MRX4	Just	Futaba 3PK	Worn	Nitro	Cracked	Dozer Racing
5	Steve Valletta	Mugen MRX3	RB C5	Futaba 3PK	Enetti	Meccamo	GT	Grahams Hobby Centre
6	Matt Russell	Razor	RB	Futaba 3PK	ATS	Meccamo	Razor	JPM Racing

OFF ROAD								
#	Name	Chassis	Motor	Radio	Tyre	Fuel	Body	Sponsor / Supporter
1	Greg Rossiter	Hyper 7	RB C6	Spektrum	ATS	Meccamo	Hyper	
2	Kim O'Connor	EBK4	21 or 70			Foam		
3	Mark Laidler	Truggy	28 STS			Foam	25,000	NASCAR
4	Jye Laidler	Truggy	28 STS			Foam	25,000	NASCAR
5	Charles Pilotto	Rex X	Hyper 21	Futaba	ATS	Meccamo	Proline	CP Racing
6	Scott Marks	Revo	RB 23	Spektrum	On Road	0.200	Truck	Tool Aus
7	Ray Azzopardi	X1CR	JP	Futaba	Foam	Meccamo	Buggy	
8	Matt Oxford	Kyosho	GoTech	Spektrum	Foam		Buggy	
9	Nathan Egan	X1CR	BBT	Spektrum	Foam	Meccamo	Buggy	
10	Barry Gavin	Caster	Force	Spektrum				Barry Gavin Racing

JUNIOR								
#	Name	Chassis	Motor	Radio	Tyre	Fuel	Body	Sponsor / Supporter
1	Rhiannon Wallace	Tamiya TT01	Tamiya	Futaba	Sorex 36	Intellect	Blitz B5	Duramould Stripes & Signs
2	Blake Wallace	Kyosho VOneS2	Kyosho	JR XR3	Enetti	AT	Mazda 6	Duramould Stripes & Signs
3	Rhys O'Connor	Losi XXX	Egg Beater	Dad's	Round	Yes	Yes	Turtle Power
4	David Turner	Kyosho VOneS3	Kyosho	Futaba 3PK	Enetti	Meccamo	Skyline	Dad's Wallet
5	Patrick Turner	Half Inferno	Kyosho	Kyosho	Spiky	Elentron	Buggy	Dad's Wallet

CHARITY CHALLENGE SPONSORS

PDNR would like to thank this years Charity Challenge sponsors who have generously supported PDNR's activities and the Kids Race Day.

Graham's Hobby Centre – 02 9833 9044

Graham's Hobby Centre are the sponsor for Open Tourer. Graham's Hobby Centre is also a long term sponsor of PDNR and specialise in nitro radio control cars, buggies and trucks. See Graham and his team at 67A Queen St, St Marys, or visit their website www.grahamshobbies.com.au for more information.

Auswide Hobbies & Collectables – 02 4732 5133

Auswide Hobbies are the sponsor for Open Pan and the Dunny Derby. They are the Nepean / Hawkesbury Districts largest radio control specialist. 199 High Street, Penrith (Next door to Jaycar). www.auswidehobbies.com.au

Caster Racing

Caster Racing are the sponsor for Off Road. Caster Racing products are available from your local hobby shop and are distributed by JPM Racing. If you need for information visit their website www.jpmracing.com.au

Grahame Jones

Grahame Jones is the sponsor for Pull Start. Jonesy as most people know him is an extremely passionate and dedicated PDNR member who has been a member of the committee for the last few year. Jonesy is one of the hard working volunteers at PDNR, so when we needed sponsors for this years event, who stuck their hand up? Grahame Jones of course! We think he may have a website, but it's probably not in everyone's best interest to publish it!

Custom T-Shirts & Trophies 0407 946 939 02 4730 2691

Custom T-Shirts & Trophies is the sponsor for Juniors. Specialising in 1 off or 100's, Custom T-Shirts & Trophies can supply all your club and small business promotional items including T-shirts, sloppy joes, dress shirts, jackets, caps, coffee mugs and heaps more. Custom t-Shirts & Trophies can design and achieve anything. If you think it can't be done ~ Just Ask Bluey!

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