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SYDNEY AUSTRALIA.  
4th-10th SEPTEMBER, 1989

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## **Model Racing Products**

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**. . TO ALL PARTICIPANTS.**

# 1989 IFMAR WORLD TITLES FOR 1/10TH OFF ROAD BUGGIES

To all Competitors,

The Australian Committee responsible for the running of the 1989 IFMAR World Titles to be held at the St. Ives track in New South Wales, Australia would like to welcome you to our home track and wish you all the very best during both your stay here and in your racing.

As you know, this is the third World Title event to be sanctioned by IFMAR's (world body) and of course a first for Australia. The first 'Worlds' were held at the Delmar track in California in 1985 while the 1987 event was staged at Romsey in England.

You have been chosen and come here as the best from your country and collectively represent the best in the world. Accordingly, we expect nothing but good close and hard racing with the knowledge that the friendships made and knowledge gained will be put to a better use, that of continuing to improve the sport in general throughout the world.

It is of course a privilege for Australia and this Committee in particular to act as host for the event and in this we have endeavoured to make the 1989 World Titles, 'the best ever'.

The St. Ives track was chosen by O.R.R.C.A. N.S.W. for many reasons but due in part to the size and layout of this very well known track. It was in fact the first track sanctioned for Off-road racing in Australia and has been in continuous use ever since. The track was recently rebuilt, widened and resurfaced for the Titles with many new additions such as the new drivers stand being added for your benefit. Additionally, excellent facilities are available on-site, plenty of parking, close to motels etc., and all located in a beautiful bushland setting only 18 kilometres from the heart of the city.

In all, we have nineteen countries represented, comprising some two hundred and forty competitors who will be here and will be contesting the two major classes - that of 2WD and 4WD.

Coming back this year for another 'shot' is Masami Hirosaka the current Title holder from Romsey with his Schumacher XLS. Interestingly, Masami is now with Yokomo and this year, will be driving a Yokomo Dog Fighter.

Technology has seen many changes in the cars, their electronics and indeed in the thinking of the sport creating a mini Grand Prix which this year sees four main companies vying for the coveted crown of World Title - they are SCHUMACHER - the current World Title holder and their XLS Cat and their new 2WD Top Cat, YOKOMO with their Super Dog fighter, KYOSHO with their revised 2WD RC - 10, as will the new LOSI JRx2 2WD that recently scooped the pool in the U.S.A. Nationals 2WD.

This event also sees the emergence of several factory teams from top motor

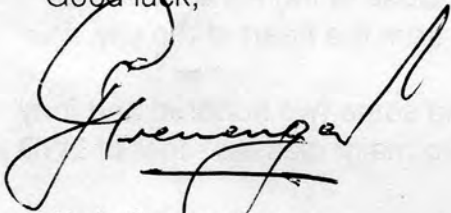
manufacturers from Japan, the U.S.A. and Germany.

As you can appreciate, the World Title committee have, in taking on the responsibility to stage these Titles accepted a massive task which could not have even been contemplated without the excellent support of our Sponsors. As you may already know, our major sponsor is SCHUMACHER RACING PRODUCTS from the U.K. a well proven and popular buggy that has captured just about every major title (including the '87 Worlds) that the sport has had to offer over the last two years. Their new offering in 2WD, the Top Cat has found immediate acceptance and here in Australia in September, it will also have its chance to become the worlds best - imagine that for a double.

Other sponsors include well known 'Locals' such as Dawn Trading, Custom Model Cars, Pitstop R.C. Cars and Accessories, Bolt-On Performance, Toy Traders, Model Engines, P.B. Australia, J.R., Citizen Watches and numerous overseas companies such as Saft Batteries, Yokomo, Associated, Frewer International, Trinity, Novak, L.R.P., Kyosho, and M.I.P. To each of you we give our thanks for your support and hope that these titles are all that you have come to expect.

In conclusion, we want to thank all of you, our competitors, the sponsors and each and every one of you who have helped in any way to make the effort to join us and hope that you make the most of your stay here in Oz. Do some sightseeing, experience what this incredible state has to offer but most of all - have fun.

Good luck,

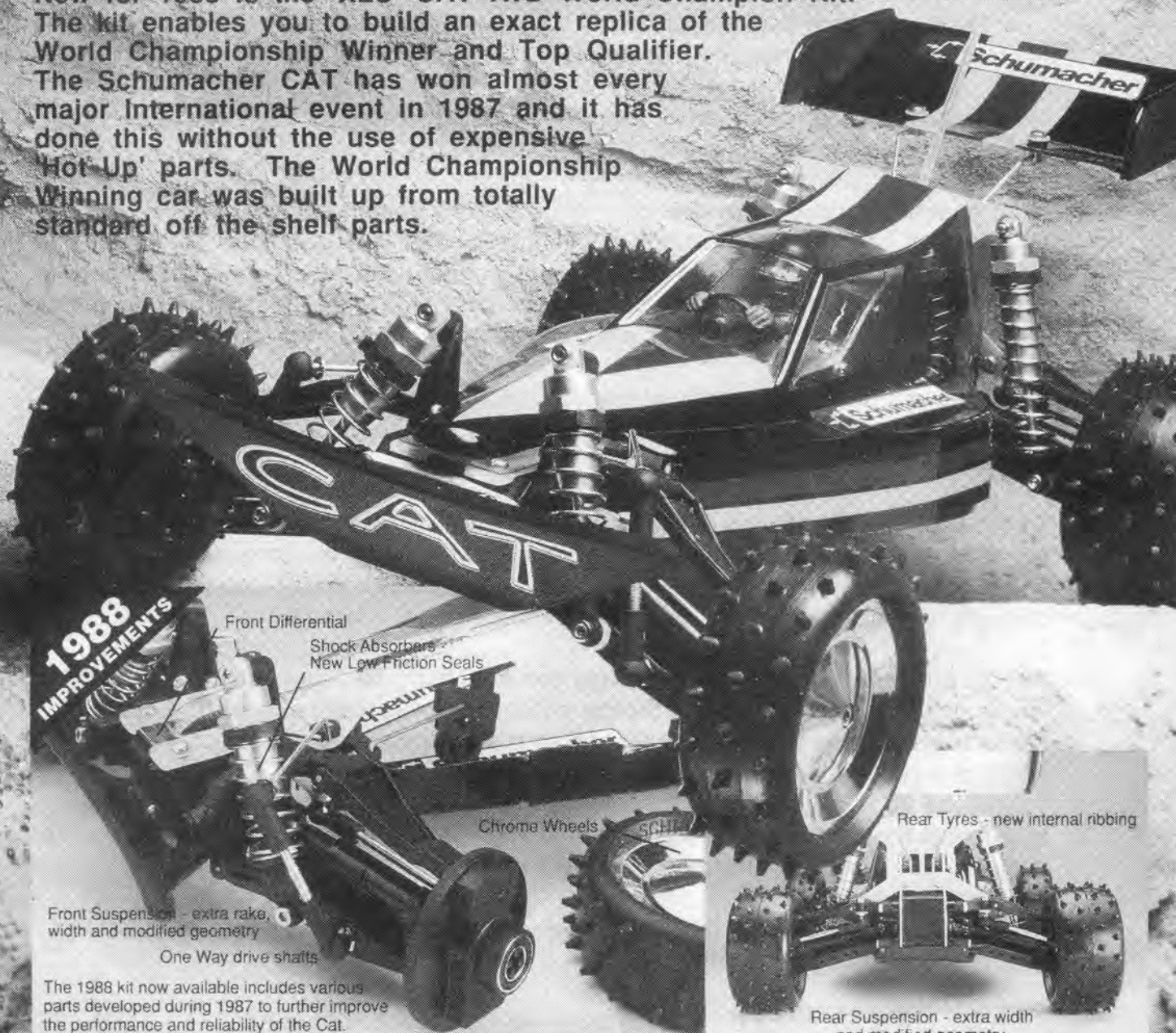
A handwritten signature in black ink, appearing to read 'Jack Grenenger', written over a horizontal line.

Jack Grenenger,  
Chairman,  
1989 World Title Committee.

**1987  
IFMAR 4WD  
WORLD CHAMPIONS**  
 \*EUROPEAN CHAMPIONS\*  
 \*AUSTRALIAN CHAMPIONS\*  
 \*U.S. A ROAR NATIONAL CHAMPIONS\*  
 \*BRITISH CHAMPIONS\* \*JAPANESE CHAMPIONS\*

**'XLS' CAT - 4WD WORLD CHAMPION**  
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New for 1988 is the 'XLS' CAT-4WD World Champion Kit. The kit enables you to build an exact replica of the World Championship Winner and Top Qualifier. The Schumacher CAT has won almost every major International event in 1987 and it has done this without the use of expensive 'Hot-Up' parts. The World Championship Winning car was built up from totally standard off the shelf parts.



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Front Suspension - extra rake, width and modified geometry

One Way drive shafts

The 1988 kit now available includes various parts developed during 1987 to further improve the performance and reliability of the Cat.

Rear Suspension - extra width and modified geometry

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## TO THE SPECTATORS

To those of you not connected with this intriguing sport, but are spectators, I would welcome you one and all. You will be privileged over the next week to see the best drivers in the World in action.

Masami Hirosaka current World Champion and holder of many other Titles, hails from Japan. Masami, 19 years old, is employed by Yokomo of Japan and is probably the most talented driver in the World today.

Some other big names for you to watch, from the U.S.A., Joel Johnson, Jay Hausey, Cliff Lett, Eustace Moore, Butch Kloeber, Gil Losi, Steve Dunn.

From Europe, Jurgen Lautenbach, Klaus Wilhelm, Christian Keil, and from England, Jamie Booth, Andy Carter and Phil Davies.

All of these drivers are well known in our sport, being winners of many Nationals and Regional events all over the world.

From Australia, current Australian champion, Andrew Bolton, Colin Grenenger, current 1/12th circuit car Australian champion, Michael Geddes, Rick Bartolozzi, Peter Pilibossian Australian champion 1985, David Conroy Australian champion 1987 and Junior champion 1985, Andrew Jackson Junior champion 1986. In 2WD, Reece Birtles from Victoria Dennis Bielby are but a few of the 24 entrants from Australia.

All drivers competing are worthy of mention these are but a few Australians who over the last 12 months have qualified to represent us in this World Titles, and between them have won every major event held in this country.

To run this most prestigious event calls for many behind the scene workers, people to act as referees, starter, scrutineers, people for the pound for the transponders, radios and buggies, etc. To organise an event of this magnitude calls for unselfish and time consuming dedication by a lot of unsung heroes male and female.

All laps are computer counted. Each car has a "transponder" fitted to it, a cable in a loop runs under the track and as the car passes over this cable an electrical current sends the message to the computer and so the lap is counted, this is accurate to 1/100th of a second.

In all heats the cars are started at 1 second intervals (10 in each heat) and so they are basically running not against each other but against the clock.

When it comes to the finals they start together much the same as most car races and they then are racing each other.

The cars are powered by 6 x 1.2 volt batteries making 7.2 volts in all.

The racing is of 5 minute duration and of course it comes down to driver ability, battery

power and motor, not forgetting the ability of the driver and/or his pit crew to set the car up correctly (right tyres, motor and shock absorber settings).

At this level of racing most competitors are sponsored drivers, receiving assistance from buggy manufacturers, motor and battery manufacturers as well as importers and some retail shops.

Any driver who shows promise at club and local level is usually snapped up by a team.

In Australia we have probably 6 or seven teams that are semi professional in the overseas scene there are many fully professional drivers.

We have in the Australian team drivers capable of winning on driver ability whether we have the technical know how and/or the batteries, motors, etc., to win is another story, nevertheless we wish them well, one thing is for sure the opposition will know we are there.

As you watch this spectacle you may get the urge to have a go yourself.

There are numerous clubs in and around the Sydney metropolitan area as well as in country areas all always looking for new members.

The all important question of course is how much does it cost? At the level you are watching the answer is a great deal not only in money but dedication as well as expertise but at club level for that is where all the experts started, not a great deal \$500 or even less would buy you a car, radio, nical batteries and charger these can be purchased for as little as \$300 at times.

Equipped with this small outlay you can join a club, and depending on your ability - who knows you could be representing Australia in the next World Titles.

Seriously though club racing is a lot of fun. It is a good family sport where father and son can get very close, mums as usually happens help with lap scoring and the social side of things.

It is an excellent training school for junior as he learns about gear ratios, mechanics and electronics and the big plus that parents will back me up on, it gives him an interest outside of his mates that are constantly bored and wander around getting into mischief.

A lot of the parents allow their boys to take jobs at week-ends and after school and insist that if they want something for their car they earn it themselves, this works very well and helps the boy value money, a trait, fast disappearing amongst our younger generation today.

In conclusion, once again we welcome you to the 3rd IFMAR World Championships and trust you enjoy the racing.



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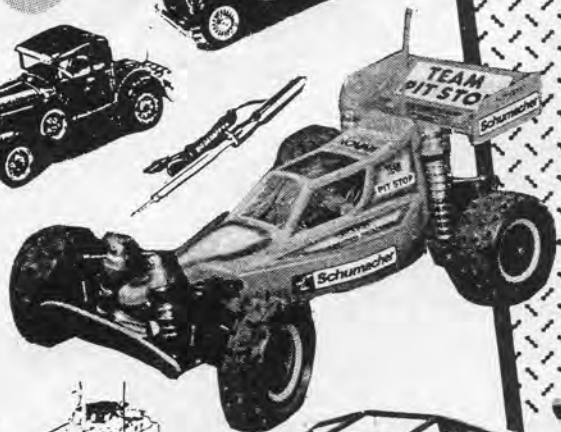
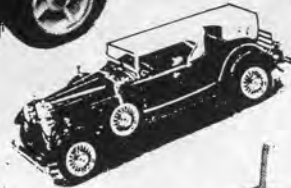
HARTS

## TRAINS:

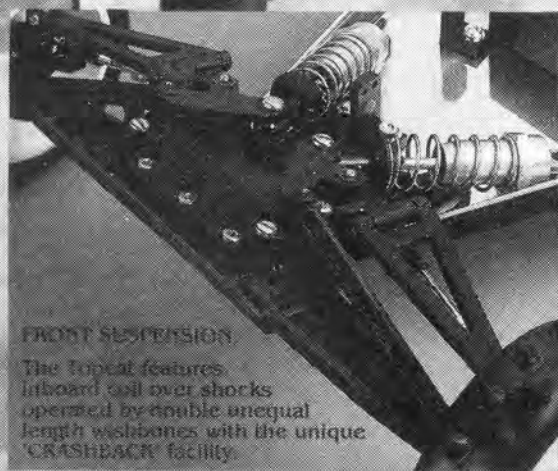
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## Performance and technology that YOU CAN BUY!

TUESDAY 2TH SEPTEMBER (SUNDAY & FRIDAY 8TH & 9TH SEPTEMBER)

08:00 am Registration & Technical Inspection

08:30 pm	Heat 1	Timed Practice in heats format	08:30 pm	Heat 7
09:40 pm	Heat 2		09:40 pm	Heat 8
03:50 pm	Heat 3		04:50 pm	Heat 9
04:00 pm	Heat 4		03:00 pm	Heat 10
04:10 pm	Heat 5		02:10 pm	Heat 11

The track will be open for unofficial practice during the week prior to the World Titles.

Practice will be allowed on Saturday 2nd September from 8:30 till 10:00 p.m. (under lights) and Monday 4th September from 8:30 a.m. until 3:00 p.m. when the track will be closed for maintenance and preparation.

This practice time will be controlled by officials.

12:45 pm	Heat 3		09:35 am	Heat 1
01:02 pm	Heat 5		09:45 am	Heat 2
01:10 pm	Heat 6		10:00 am	Heat 3
01:18 pm	Heat 7		11:00 am	Heat 4
01:26 pm	Heat 8		11:15 am	Heat 5
01:34 pm	Heat 9		11:24 am	Heat 6
01:42 pm	Heat 10		11:32 am	Heat 7
01:50 pm	Heat 11		11:40 am	Heat 8
01:58 pm	Heat 12		11:48 am	Heat 9
			11:56 am	Heat 10
			12:04 am	Heat 11
			12:12 am	Heat 12
			10:44 am	Heat 1
			10:52 am	Heat 2
			11:00 am	Heat 3
			11:08 am	Heat 4
			11:16 am	Heat 5
			11:24 am	Heat 6
			11:32 am	Heat 7
			11:40 am	Heat 8
			11:48 am	Heat 9
			11:56 am	Heat 10
			12:04 am	Heat 11
			12:12 am	Heat 12
			04:30 am	Heat 1
			04:38 am	Heat 2
			04:46 am	Heat 3
			04:54 am	Heat 4
			05:02 am	Heat 5
			05:10 am	Heat 6
			05:18 am	Heat 7
			05:26 am	Heat 8
			05:34 am	Heat 9
			05:42 am	Heat 10
			05:50 am	Heat 11
			05:58 am	Heat 12

## PROGRAMME OF EVENTS

TUESDAY 5TH SEPTEMBER (2WD) & FRIDAY 8TH SEPTEMBER (4WD)

08:00 am Registration + Technical Inspection

03:30 pm	Heat 1	<i>Timed Practice in Heats Format</i>	04:30 pm	Heat 7
03:40 pm	Heat 2		04:40 pm	Heat 8
03:50 pm	Heat 3		04:50 pm	Heat 9
04:00 pm	Heat 4		05:00 pm	Heat 10
04:10 pm	Heat 5		05:10 pm	Heat 11
04:20 pm	Heat 6		05:20 pm	Heat 12

WEDNESDAY 6TH SEPTEMBER (2WD) & SATURDAY 9TH SEPTEMBER (4WD)

09:00 am	Heat 1	<b>First Round of Qualifying Heats</b>	12:30 pm	Heat 1	<b>Third Round of Qualifying Heats</b>
09:08 am	Heat 2		12:38 pm	Heat 2	
09:16 am	Heat 3		12:46 pm	Heat 3	
09:24 am	Heat 4		12:54 pm	Heat 4	
09:32 am	Heat 5		01:02 pm	Heat 5	
09:40 am	Heat 6		01:10 pm	Heat 6	
09:48 am	Heat 7		01:18 pm	Heat 7	
09:56 am	Heat 8		01:26 pm	Heat 8	
10:04 am	Heat 9		01:34 pm	Heat 9	
10:12 am	Heat 10		01:42 pm	Heat 10	
10:20 am	Heat 11		01:50 pm	Heat 11	
10:28 am	Heat 12		01:58 pm	Heat 12	
10:44 am	Heat 1	<b>Second Round of Qualifying Heats</b>	02:20 pm	Heat 1	<b>Fourth Round of Qualifying Heats</b>
10:52 am	Heat 2		02:28 pm	Heat 2	
11:00 am	Heat 3		02:36 pm	Heat 3	
11:08 am	Heat 4		02:44 pm	Heat 4	
11:16 am	Heat 5		02:52 pm	Heat 5	
11:24 am	Heat 6		03:00 pm	Heat 6	
11:32 am	Heat 7		03:08 pm	Heat 7	
11:40 am	Heat 8		03:16 pm	Heat 8	
11:48 am	Heat 9		03:24 pm	Heat 9	
11:56 am	Heat 10		03:32 pm	Heat 10	
12:04 am	Heat 11		03:40 pm	Heat 11	
12:12 am	Heat 12		03:48 pm	Heat 12	
04:10 am	Heat 1	<b>Fifth Round of Qualifying Heats</b>	04:58 pm	Heat 7	
04:18 am	Heat 2		05:06 pm	Heat 8	
04:26 am	Heat 3		05:14 pm	Heat 9	
04:34 am	Heat 4		05:22 pm	Heat 10	
04:42 am	Heat 5		05:30 pm	Heat 11	
04:50 am	Heat 6		05:38 pm	Heat 12	

**TRACK WILL BE CLOSED IMMEDIATELY AFTER END OF LAST HEAT**

## PROGRAMME OF EVENTS

THURSDAY 7TH SEPTEMBER (2WD) & SUNDAY 10TH SEPTEMBER (4WD)

09:00 am	Heat 1	Sixth Round of	09:48 pm	Heat 7
09:08 am	Heat 2	Qualifying Heats	09:56 pm	Heat 8
09:16 am	Heat 3		10:04 pm	Heat 9
09:24 am	Heat 4		10:12 pm	Heat 10
09:32 am	Heat 5		10:20 pm	Heat 11
09:40 am	Heat 6		10:28 pm	Heat 12

### FINAL PRACTICE WITH TRANSPONDERS IN CARS

11:30 AM	L - Final Practice	12:18 PM	F - Final Practice
11:38 AM	K - Final Practice	12:26 PM	E - Final Practice
11:46 AM	J - Final Practice	12:34 PM	D - Final Practice
11:54 AM	I - Final Practice	12:42 PM	C - Final Practice
12:02 AM	H - Final Practice	12:50 PM	B - Final Practice
12:10 AM	G - Final Practice	12:58 PM	A - Final Practice

### The 1989 IFMAR / SCHUMACHER WORLD CHAMPIONSHIP FINALS

<u>02:00 PM</u>	<u>L - FINAL</u>
<u>02:10 PM</u>	<u>K - FINAL</u>
<u>02:20 PM</u>	<u>J - FINAL</u>
<u>02:30 PM</u>	<u>I - FINAL</u>

#### 02:45 pm WORLD CHAMPIONSHIP FINAL 1ST LEG

<u>03:00 PM</u>	<u>H - FINAL</u>
<u>03:10 PM</u>	<u>G - FINAL</u>
<u>03:20 PM</u>	<u>F - FINAL</u>

#### 03:35 pm WORLD CHAMPIONSHIP FINAL 2ND LEG

<u>03:50 PM</u>	<u>E - FINAL</u>
<u>04:00 PM</u>	<u>D - FINAL</u>
<u>04:10 PM</u>	<u>C - FINAL</u>
<u>04:20 PM</u>	<u>B - FINAL</u>

#### 04:35 pm WORLD CHAMPIONSHIP FINAL 3RD LEG

Winners will receive their laurels at the track immediately after the Finals. Trophies will be presented at the World Championship Banquet on the evening of Sunday 10th September at the Pickering Building, St Ives Showground.

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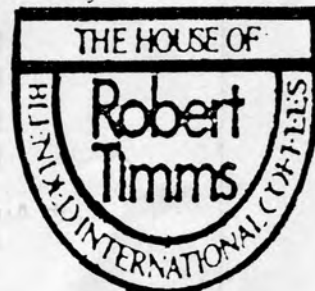
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# WHO ARE

# P.B. MODEL CARS AUSTRALIA?

First established in 1977 as Rob Reade Model Cars, a specialist importer of 1/8th scale competition radio controlled model cars. A change of name to PB Model Cars Australia took place in 1981. It is a Family company run by the husband and wife team of Rob and Anna Reade. In the early days of organised radio controlled 1/8th scale racing during the late 70's and early 80's Rob himself absolutely dominated the racing scene Australia wide with his PB cars winning at one time or another just about everything there was to be won. He also competed at the 1981, 1983 and 1985 World Titles for 1/8th scale racing cars in America, France and Japan respectively and came out of driving retirement in 1987 to win a place and compete in the 1987 1/10th buggy World Champs in England. These days most of the race winning in the PB Model Cars Australia racing team is done by Rob's two sons Andrew and Chris, particularly Andrew who in his first major competition drive of a 1/10th buggy actually top qualified at the 1987 Aust. Champs and finished a very close 2nd, almost winning! It was also an excellent competition debut for what was then a brand new product line for PB in the 1/10th buggy field, the "Mini Mustang".

Since then Andrew Reade has gone onto many wins in both 1/8th scale and 1/10th scale and is the current NSW and South Aust. Champ in 2 wd buggy (Losi JR X 2) and South Aust. Champ in 4 wd (PB Maxima). He is also the current South Aust. Champ in 1/8th scale (89 PB Phoenix) and is regarded as one of the top drivers in Australia. Unfortunately university commitments have

kept him out of competing at this World Champs.

Now that's who we are. What do we sell?

In 1/10th scale electric we sell the Losi JR -X2 buggy, PB Ace and PB Mini Mustang 4WD buggies, PB Pro 10 Sizzler circuit car, Losi motors both stock and modified, Losi computer matched batteries, Losi motor brushes, Losi motor springs, Losi after market parts for Associated RC10, Losi decal sheets, Losi motor-safe, Losi foam motor covers, Losi shocker oil, Losi JR -X2 spare parts and accessories, Losi 48DP pinions, spare parts and accessories for PB 1/10th buggies, PB electronic speed controller, PB 32 DP pinions for single speed and 2 speed automatic, PB racing jackets, PB caps, PB decal sheets, PB SCR factory matched battery packs, Cat copy tyres standard and Mini-spike, Frewer 1/12 Mardave Mini Stock Car and a complete range of Frewer accessories for FC10 and Optima, Hot Box Mosfet Peak Detection Charger, Challenger digital readout Mosfet Peak Detection Charger, Challenger digital cell lab battery checker, Dynamite 1/10th off road tyres, SRM after market accessories for Associated, PB Kyosho, Losi, Tamiya, Schumacher and Yokomo, SRM gear ratio charts, SRM 48DP pinions, SRM gear adaptors for 32, 48 and 64 DP spur gears, SRM Tufnol spur gears 48DP and 64 DP for Associated, PB Kyosho, Yokomo and Schumacher, SRM heat shrink, SRM aerial kits, SRM pinion gear holder, SRM Scorcher Plus stock motor, Allen key wrenches and sponsor decal sheets.

In 1/8th scale circuit we have Serpent 2 and 4 wd car kits, PB

Phoenix 4 wd car kits. Serpent spares and accessories, PB spares and accessories, PB glo plug driver, fuel tube, air cleaners, fuel filters, mufflers, manifolds, the full range of wanted sedan, sports, and F1 bodies from Frewer, Sarik Vacform and PB. Arrows tyres, Nova Rossi tyres, Frewer tyres, EDL synthetic oil for use in fuel, nitro, fuel filler bottles, Portable 12v tyre truing machine, electric starters, starter rubbers, glo plug leads, PB promotional wear, Serpent promotional wear, Allen key wrenches, the full range of Nova Rossi 3.5cc car engines (1.6 to 2.15 hp), the Rex super power 3.5cc car motor, Serpent S power motors including the new 8 port motor, engine spares for K & B, Picco, Nova Rossi, Rex and S Power, tuned pipes, lexan wings, lexan paint, Nova Rossi glo plugs (all heat ranges) S power glo plugs, PB glo plugs, wet weather tyres, aerial mount kits and some real trick O'Donnell Nova Rossi 3.5cc race motors from America as well as O'Donnell mufflers and accessories.

In 1/8th off road, we have Serpent 4 wd buggy kits, PB Mustang X3 4wd buggy kits, wheels, tyres, spare parts, bodies, wings, K & N air filters, Nova Rossi buggy motors, S power buggy motors, manifolds, mufflers, plus all the items which are common to both 1/8th circuit and 1/8th off road.

Just for good measure, we have some Nova Rossi 3.5cc plane and marine engines as well!

Now surely, there is something in all we have, that is of interest to you?



## PB MODEL CARS AUSTRALIA

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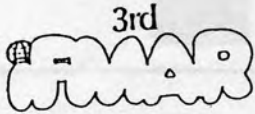


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## THE AUSTRALIAN



## CONNECTION

Wish all Competitors the best of luck

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We extend a special welcome to all of

those overseas visitors from the various

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their stay in **AUSTRALIA** will be memorable.

