

Perth Radio Electric Car Club Inc.

Section 4 – Racing Classes

4.1 General

- 4.1.1 The class rules in this section are the general rules for PRECC events.
- 4.1.2 These rules take precedence over AARCMCC rules.
- 4.1.3 Reference to AARCMCC rules may be made by the race committee when no specific club rule applies.
- 4.1.4 Rules in the event sections (Refer to Sections 5 to 8) or contained as part of an event nomination form take precedence over these general rules.

4.2 Novice

- 4.2.1 Novice class is designed for people who have never raced an RC model and would like to “test the water” before committing to one of the Race classes PRECC offers.
- 4.2.2 General Specifications;
 - 4.2.2.1 Vehicle – any 1/10th scale on road electric 4 or 2 wheel drive vehicle.
 - 4.2.2.2 Body – Any on road car based body.
 - 4.2.2.3 Motor – No motor restriction – refer to 4.2.3
 - 4.2.2.4 Tyres – Any rubber or foam tyres designed for their vehicle.
 - 4.2.2.5 Battery – As per Section 3.4
 - 4.2.2.6 Minimum weight – None specified.
- 4.2.3 Drivers unable to maintain a reasonable level of control over their car will be asked to use a less powerful motor.
- 4.2.4 Entrance to Novice Class is at Race Committees discretion.

4.3 Sportsman

- 4.3.1 The Sportsman (previously “540”) class is intended for drivers who are new to RC On-Road racing. This class provides an excellent environment for learning the craft of RC racing. Although, in some parts of the world 540 racing is a very competitive class with some very seasoned drivers, at PRECC our intention is for the Sportsman class to be for new and/or junior drivers only. As of 2014, this class is an AARCMCC recognised on-road electric class.

Drivers that have mastered Sportsman class are encouraged (though not forced) to move up to the faster classes to give newer drivers a chance at winning trophies. As such, a driver that has won the Sportsman class championship 1st place trophy once is not permitted to win the championship trophy a second time.

- 4.3.2 General Specifications;
 - 4.3.2.1 Vehicle – Any 1/10th scale four wheel drive touring car.

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- 4.3.2.2 Body – Touring Sedan, refer to Section 3.3.2 and also rule 4.3.3.
 - 4.3.2.3 Motor – Any brushed 27 turn sealed silver can 540 or Tamiya Sports Tuned motor or Brushless 21.5 turn. Brushless motor regulations as per AARCMCC.
 - 4.3.2.4 Tyres – Rubber tyres only, refer to Section 3.2.
 - 4.3.2.5 Battery – As per section 3.4.
 - 4.3.2.6 Minimum weight – 1380 grams – ready to race including transponder.
 - 4.3.2.7 Electronic Speed Controller (ESC) – Must be on the ROAR Approved Non-Timing ESC List.
 - 4.3.2.8 Approval may be given by the Race Committee to run a non-ROAR Approved ESC. The Race Committee will assess the particular ESC and approve its operation on specific settings only. The Race Committee reserves the right to alter/change any ESC settings as required to maintain the spirit of the Sportsman class.
- 4.3.3 Permission maybe granted for new members to the Sportsman class to use any on road car based body, provided no advantage is gained. This permission is on an event by event basis only.

4.4 Stock Class

- 4.4.1 Stock class is an AARCMCC recognised class. Generally the most popular of the AARCMCC controlled classes. Stock is limited by controlling the motors permitted. Stock class provides for very competitive racing whilst maintaining a degree of budget control.
- 4.4.2 General Specifications;
- 4.4.2.1 Vehicle – Any 1/10th scale four wheel drive touring car.
 - 4.4.2.2 Body – Touring Sedan, refer to Section 3.3.2.
 - 4.4.2.3 Motor – Any approved rebuildable, brushed, 27 turn, 24 degree fixed timing or Brushless 13.5 turn motor as per AARCMCC approved motors list. [AARCMCC Electric Section 4]
 - 4.4.2.4 Tyres – Rubber tyres only, refer to Section 3.2.
 - 4.4.2.5 Battery – As per section 3.4.
 - 4.4.2.6 Minimum weight – 1380 grams – ready to race including transponder. [AARCMCC Electric 3.7.8]
 - 4.4.2.7 Electronic Speed Controller (ESC) – Must be on the ROAR Approved Non-Timing ESC List.

4.5 Super Stock Class

Deleted from AARCMCC and PRECC rules from 2011. This section is reserved for possible future re-introduction.

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4.6 Modified Class

- 4.6.1 Modified, also an AARCMCC controlled class, has few motor limits and most of the high powered modern brushless motors are permitted. The extremely fast acceleration and top speeds of Modified will fully test the advanced driver's ability to setup and control a radio controlled race car. The Modified class is not for the beginner or faint hearted.
- 4.6.2 General Specifications;
- 4.6.2.1 Vehicle – Any 1/10th scale four wheel drive touring car.
 - 4.6.2.2 Body – Touring Sedan, refer to Section 3.3.2
 - 4.6.2.3 Motor – Any brushed or brushless motor as per AARCMCC Section 10.
 - 4.6.2.4 Tyres – Rubber tyres only, refer to Section 3.2
 - 4.6.2.5 Battery – As per section 3.4
 - 4.6.2.6 Minimum weight ready to race in including transponder;
 - 4.6.2.6a 1380 grams for 6 cell NiCad or NiMh and LiPo.

4.7 Tamiya Mini Class

- 4.7.1 The Mini Class is based on Front Wheel Drive 1/10th scale vehicles. Although once dominated by Mini bodies, many other scale Front Wheel Drive bodies are now available. The unique handling of the FWD mini creates a challenging, but very fun, vehicle to drive.
- 4.7.2 Mini will have two sub classes which will run together in the same race. The sub classes are;
- 4.7.2.1 Stock Mini – intended to offer the lowest budget racing possible.
 - 4.7.2.2 Pro Mini – for those who want to take mini racing to the next level.
- 4.7.3 Whenever Mini class is offered at a club event the committee, where numbers permit, should endeavour to offer the following trophies;
- 4.7.3.1 Overall 1st, 2nd and 3rd – awarded to first, second and third positions overall regardless of sub-class, Stock or Pro.
 - 4.7.3.2 1st Stock Mini – an additional trophy may be awarded at the PRECC Committees discretion for the best placed Stock mini. Any recipient of this trophy may also receive an overall position trophy.
- 4.7.5 **Stock Mini – Specifications;**
- 4.7.5.1 Vehicle – Tamiya M03 or M05 standard chassis kits or RTR only permitted. This rule specifically rules out any “R” or special kits, standard kit length varieties (M03M or M03L) are allowed. Only standard mini kits permitted.
 - 4.7.5.2 Body – Any body based on Front Wheel Drive vehicles designed for M03/M05 chassis with the following restrictions;
 - 4.7.5.2a No modern (Post 1980) touring sedans and/or 12th scale type Wedge/Canam sports bodies.

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- 4.7.5.3 Motor – “Johnson” based “Silver” or “Black” 540 sealed 27 turn motor (23,000rpm Max, unloaded dyno test)
- 4.7.5.4 No upgrades or Hop Up parts of any sort permitted. Chassis must be built as per Tamiya original instructions with Tamiya standard original parts only.
- 4.7.5.5 Any car found to have upgraded or hop up parts will immediately be classified as a Pro Mini.

4.7.6 Pro Mini - Specifications;

- 4.7.6 All club events will be conducted with PRECC Body and Motor rules.
- 4.7.6.1 Vehicle – Tamiya M03 or M05 series chassis only permitted.
- 4.7.6.2 Body – Any body based on Front Wheel Drive vehicles designed for M03/M05 chassis with the following restrictions;
 - 4.7.6.2a No modern (Post 1980) touring sedans and/or 12th scale type Wedge/Canam sports bodies.
 - 4.7.6.3 Motor – Johnson based “Silver” or “Black” 540 sealed 27 turn motor (23,000rpm Max) or 13T/3000Kv Hobbywing OEM/rebranded COMPLETE SYSTEM (Hobbywing OEM motor and esc only) with maximum 35 amp ESC and engraved/etched can. No modifications are permitted to motors. Removal of fans is permitted on ESC’s.
 - 4.7.6.4 Tyres – Any commercially available rubber mini-sized tyres (60D Max), in any combination and/or compound, with any insert, and standard offset mini-sized wheels.
 - 4.7.6.5 Battery – As per section 3.4
 - 4.7.6.6 Minimum weight – 1330 grams – ready to race including transponder.
 - 4.7.6.7 Transmission – Tamiya original transmission gears only. 20, 18 or 16 tooth pinions only. No “Speed Gears” permitted.
 - 4.7.6.8 Chassis/Modifications – Cars must be assembled as per instruction manual, and no chassis/powertrain modifications allowed. With the exception of the included/optional ball differential which may be modified to give a locked/spool action. Aftermarket differentials/spools are permitted. One-way diffs are specifically prohibited.
 - 4.7.6.9 Upgraded Parts – Any bearings and Tamiya Hop Ups only permitted, with the following exception. Official Tamiya optional Alloy Hop Ups components may be replaced with an equivalent aftermarket part. e.g. Front/rear uprights, heatsink motor mount, servo mount, shocks, steering bellcranks and linkages. Aftermarket rear body mount support/braces are also permitted.
 - 4.7.6.10 Bumpers – Bumpers are permitted providing they are essentially foam construction with no hard mounting points contacting the body shell.

4.8 1/12th Scale

- 4.8.1 1/12th Scale, also an AARCMCC controlled class, has few motor limits and most of the high powered modern brushless motors are permitted. This class is second only to the Modified touring class and relies heavily on aerodynamics.

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4.8.2 General Specifications;

- 4.8.2.1 Vehicle – Any 1/12th scale GT or Le Mans style prototype.
- 4.8.2.2 Body – GTP, Le Mans prototypes (LMP675 or LMP900), World Sports Cars or FIA GT Racing Classes 1 or 2 (GT1 or GT2). [AARCMCC 9.6.1]
- 4.8.2.3 Motor – Any brushed or brushless motor as per AARCMCC Section 10. PRECC recommends 10.5 turn motors to keep costs low and competition close.
- 4.8.2.4 Tyres – Foam tyres, minimum width 13mm, maximum 40mm. Maximum track width 172mm.
- 4.8.2.5 Battery – 1S 3.17V LiPo
- 4.8.2.6 Minimum weight ready to race in including transponder 750 grams.

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