

Perth Radio Electric Car Club Inc.

Section 3 – Vehicle Rules

3.1 General

- 3.1.1 Electronic and/or mechanical speed controllers with reverse are permitted, however, under the rules of racing reverse cannot be used during racing. [AARCMCC 9.4.11]
- 3.1.2 At the completion of any race, a minimum track surface clearance of 5mm for body, chassis and suspension components must be maintained. 1/12th scale must maintain a minimum clearance of 3mm.
- 3.1.3 With the exception of wheel nuts/axles (and refer to 3.2.6) no rigid metal chassis parts are to protrude outside of the body shell. This specifically prohibits the use of rigid receiver antennas (especially in 1/12th scale) and alloy/metal body posts. (The purpose of this rule is to protect the carpet and for the safety of marshals).
- 3.1.4 Bumpers are not required in all classes, but when used, they must be shock absorbing and non-metallic, with no sharp edges. For safety, rigid bumpers, such as fibreglass and composites, are not permitted.
- 3.1.5 No part of the bumper may extend outside the body-shell when viewed from any direction, nor be lower than the chassis. [AARCMCC 9.5.4]
- 3.1.6 Vehicles must be fitted with a transponder, either personal or hire, for lap counting to be automatic. No manual lap counting will be conducted.

3.2 Wheels and Tyres

- 3.2.1 Rubber tyres only with or without inserts, except 1/12th scale or F1.
- 3.2.2 Foam tyres only permitted in 1/12th scale or F1.
- 3.2.3 Traction compounds are not permitted on rubber tyres. Only LRP Topgrip Carpet 3 Traction compound is permitted on foam tyres.
- 3.2.4 Any manufacturer's wheel, tyre or insert, keeping within the specifications of your scale car may be used.
- 3.2.5 No studded, pin or rally block type tyres permitted. Slick or tarmac treaded tyres only.
- 3.2.6 Wheel nuts and/or axles must not protrude more than 3mm beyond the wheels. [AARCMCC 9.3.5]
- 3.2.7 No more than 1.5mm of wheel rim outside diameter may be exposed on the outside of the wheel (i.e. not covered by the tyre).
- 3.2.8 Touring Sedan Classes (Sportsman, Stock and Modified) [AARCMCC 9.5.2]
 - 3.2.8.1 Wheel diameter maximum is 52mm
 - 3.2.8.2 Tyre diameter maximum is 67mm
 - 3.2.8.3 Wheel width maximum is 26mm

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3.3 Bodies

3.3.1 General

3.3.1.1 A repaired body must be of a reasonable standard (i.e. no protruding bolts, screws etc) and must pass track surface clearance test.

3.3.2 Touring Sedan Classes (Sportsman, Stock and Modified) [AARCMCC 9.5.3]

3.3.2.1 Body shells must be a sedan car style either 2 or 4 door.

3.3.2.2 No sports coupe, GT style or hybrid bodies will be allowed.

3.3.2.3 Body width not to exceed 195mm.

3.3.2.4 If using a 2 door sedan style body please check with Race Committee to ensure your selected body is legal. [AARCMCC only recently updated the rules to allow 2 door sedan style bodies]

3.3.3 Mini Classes

Refer to 4.7.5.2 and 4.7.6.2.

3.3.4 1/12th Scale Modified [AARCMCC 9.6]

3.3.4.1 Body shells must be GTP, LeMans prototypes (LMP675 and LMP900), World Sports Cars and FIA GT Racing Classes 1 and 2 (GT1 and GT2) only.

3.3.4.2 Body width not to exceed 176mm. [AARCMCC 9.6.11]

3.4 Batteries (AARCMCC Section 12)

3.4.1 Only LiPo, NiCad and NiMh batteries as approved by AARCMCC Section 12 may be used.

3.4.2 LiPo batteries must only be Used and Charged as per AARCMCC 12.3. Listed below are the key points from AARCMCC Section 12.3 and all drivers at PRECC should refer to AARCMCC 12.3 for full details of the Use and Charging of LiPo batteries.

3.4.2.1 LiPo batteries may only be charged on club premises with suitable battery charger designed for LiPo batteries or a LiPo battery manager may be used with a conventional charger.

3.4.2.2 No direct mains connected “plug pack” type chargers will be permitted.

3.4.2.3 A LiPo charging sack must be used.

3.4.2.4 LiPo batteries must not be charged to any voltage higher than 8.44V.

3.4.2.5 Cars running LiPo batteries must be fitted with a LiPo cut-off circuit, either as part of the electronic speed controller software or separate LiPo voltage cut-off device.

3.4.3 The maximum number of cells per race pack is;

3.4.3.1 NiCad and NiMh – 6 Cells

3.4.3.2 LiPo – 2S 7.4V or 1S 3.7V for 1/12th Scale.

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3.5 Motors (AARCMCC Section 10)

3.5.1 Any motor connector or direct hard wiring to the motor is allowed.

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