



VEHICLE REGULATIONS

RXA has 2 primary groupings of vehicles – Open and Production, with classes for 4wd & 2wd within those groupings. There is also a group specifically for up to 1.6 litre vehicles.

These regulations advise the requirements for all groupings & general regulations applying to all groupings.

Competitors in all groupings must read and comply with the general regulations contained in this document.

Open 4wd & 2wd

1. ENGINE

1.1 Free apart from the following limitation.

1.1.1 45mm turbo air inlet restrictor to be fitted within 50mm of the turbocharger compressor wheel. It will be measured over a 3mm distance. The maximum outside dimension 50mm from the compressor wheel shell be 51mm

1.2 The engine must be in the same general location. i.e. if the engine was fitted in the front of the vehicle it must remain there.

1.3 Aspiration is free

1.4 The engine must be the same cylinder configuration as the base production unit, except for Open 2wd where this is free.

2. TRANSMISSION

2.1 Free apart front the following limitation

2.1.1 The transmission must be in the same general location as the stock vehicle

3. CHASSIS

3.1 The chassis must be a production base unit

3.2 Strictly no tube chassis

3.3 Suspension points are free providing the suspension type remains the same as the production base vehicle.

3.4 The Maximum Width of the body, measured from the widest points of the panels shall be no wider the 1850mm

3.5 The chassis rails may be modified forward of the front strut towers or last suspension point and rearward of the rear strut towers or last suspension point.

4. FUEL TANK AND FUEL SUPPLY SYSTEM

- 4.1 FUEL PUMP/S: The fuel pump/s is free, but may not be fitted in the cockpit. Should this be an original fitting, the pump/s may remain in place but must be well protected. A petrol filter with a maximum capacity of 0.5 litres may be added to the fuel inlet pipe.
- 4.2 FUEL TANK/S:
- 4.2.1 The total capacity of all fuel tanks must not exceed 95 litres.
 - 4.2.2 One or more additional or replacement fuel tank/s of free but safe design may be fitted. The use of a safety fuel bladder homologated to the FIA FT3 standard is highly recommended. If the design of the car makes the fitment of the tank outside the cockpit impractical it is permitted to fit the tank in that compartment provided:
 - 4.2.2.1 The filling orifice and breather are outside that compartment and the tank vents to the outside, regardless of car construction;
 - 4.2.2.2 No part of the bodywork may be removed and/or altered to accommodate any petrol tank (save for the filling orifice which may be located in the window glass);
 - 4.2.2.3 In all cases the tank is separated from the driver by a flame proof and liquid proof bulkhead, which may be transparent.
 - 4.2.3 On cars on which the fuel tank is in the passenger compartment or the luggage compartment, the fuel filler must be fitted so that spilled fuel will drain away safely to the outside of the car. If fitted with a filler catch tray, its design must be to the satisfaction of the scrutineers for each event.
 - 4.2.4 Fuel lines may be replaced.
 - 4.2.5 Should the fuel tank be installed in the boot and the rear seats be removed, a flame and liquid-proof bulk-head must separate the cockpit from the fuel tank. Should the fuel tank be installed in the boot/luggage area of a two volume car, a flame and liquid-proof bulkhead must separate the cockpit from the fuel tank. A non-structural partition made from transparent, non-flammable material between the fuel tank and the driver's compartment is allowed.

5. WEIGHT

- 5.1 The minimum dry weight for any open class 4wd car is – 1150kg without driver
- 5.2 The minimum dry weight for any open class 2wd car is – 1000kg without driver

6. AERODYNAMICS

- 6.1 The rear aerodynamic device shall be no wider than the widest part of the coach work.
- 6.2 The rear aerodynamic device shall be no higher than 100mm above the roof.
- 6.3 Front devices shall not extend any further than 50mm past the front body work.

7. COOLING SYSTEM

- 7.1 If the radiator is mounted anywhere but in the original location it must be fully sealed from the cockpit.

8. WINDOWS

- 8.1 The front windscreen must be laminated glass.
- 8.2 All other windows may be constructed from 2.5+mm polycarbonate
- 8.2 All windows other than the windscreen must have a tint/protective film fitted

9. LIGHTS

- 9.1 All vehicles must have operational Brake lights.

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10. EXHAUST

- 10.1 The exhaust must exit no earlier than the front half of the vehicle, and must not impede the cockpit.
- 10.2 Waste-gate exit may exit earlier than the primary exhaust system but must exit underneath the vehicle in a safe position.

11. ROLL CAGE

- 11.1 AASA or CAMS log booked ROPS will be accepted.
- 11.2 6-point minimum with dual side intrusion on the driver's side.

Production 4wd & 2wd

P4wd & P2wd class cars are based on production cars or CAMS 3CPRC class.

12. ALL REGULATIONS FOR THESE CLASSES WILL BE AS PER 3CPRC IN THE CAMS MANUAL WITH THE EXCEPTION OF:

- 12.1 Blanks may be used to replace headlights
- 12.2 Other than front windscreen, polycarbonate windows may be used and must comply with rule 9 of these regulations.
- 12.3 Fuel is free with 34 & 36 mm restrictors
- 12.4 Maximum wheel size is 17" x 8" and wheels / tyres must comply with rule 5 of these regulations.

13. OTHER ELIGIBLE VEHICLES FOR P4WD:

S2000
Group N
PRC
AP4
G4
Group A
R5
R4

14. OTHER ELIGIBLE VEHICLES FOR P2WD:

PRC
Classic
G2
CRC
R3
R2

1.6 class (only the modifications listed here are permitted, no other modifications will be accepted)

Under 1.6 Litre cars must remain unmodified apart from the following exceptions:

15. SAFETY CAGE

- 15.1 All vehicles must have a roll cage to meet minimum CAMS specification as outlined under schedule J of the CAMS Manual, Safety Cage Structures 12.3 .

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16. SUSPENSION

- 16.1 All bushings are free provided they are made from an elastomeric material and no modifications are made to any component to facilitate the fitment.
- 16.2 Springs & Dampers are free but must not use remote canisters & must be retained in original position and location.

17. ENGINE

- 17.1 Engine capacity must not exceed 1600cc
- 17.2 The exhaust must exit from the original location
- 17.3 The exhaust system is free from the cylinder head exit
- 17.4 The air cleaner element is free
- 17.5 Air intake is free downstream from the original throttle body / carburetor

18. WHEELS, TYRES & BRAKES

- 19.1 The maximum wheel width is 7 inches.
- 19.2 Brake Pad friction material is free.
- 19.3 200 Treadwear minimum tyres only

19. SEATS & INTERIOR

- 19.1 The driver's seat rails may be modified appropriately to fit a race seat and harness mounting points
- 19.2 All other seat brackets may be removed
- 19.3 The interior trim of the vehicle may be stripped but the original door trims / cards and dash board (in its entirety) must be retained in the original location and position.

20. BODY/CHASSIS

- 20.1 Underbody protection is permitted but must not be used as an aerodynamic aid in any way
- 20.2 Head lights may be removed and replaced with a fiberglass or similar material cover
- 20.3 All vehicles must have an appropriate tow point / strap front and rear
- 20.4 A minimum of a 1kg fire extinguisher must be in the cabin
- 20.5 Cars must be in a clean and presentable condition
- 20.6 Minimum class weight is 1000kg including driver, helmet, HANS device (or similar), driving suit, gloves and boots.

General Vehicle Regulations (apply to all classes)

21. NUMBERS & SIGNAGE

- 21.1 All cars must have competition numbers on the rear side window's 200mm high and PMS 804 in color. (Fluoro orange).
- 21.2 The driver's surname will be placed above the competition number in a non-conflicting color, lettering 100mm high.
- 21.3 All cars must have a competition number on the front passenger side 100mm high and PMS 804 in color (fluoro orange)
- 21.4 All cars must have a competition number in the lower middle rear window 100mm high and PMS 804 in color (fluoro orange)
- 21.5 RXA reserves the right to the top 150mm of the front windscreen for series sponsorship.
- 21.6 RXA may assign competition numbers.

22. WHEELS & TYRES

- 22.1 Strictly no bead locking system

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- 22.2 Maximum rim width is 8" (or 205mm tyre mounting surface)
- 22.3 Maximum rim diameter is 17"
- 22.4 All tyres must be commercially available
- 22.5 Maximum tyre tread width is 225mm
- 22.6 Strictly no "R" spec tyres, minimum tread wear of 180, tread wear information must be commercially available from the tyre manufacturer.
- 22.7 Maximum of 6 tyres per event, new or used.
- 22.8 Automatic inflation/deflation systems are forbidden.
- 22.9 Strictly no tyre grooving
- 22.10 Suitable tyres:
 - Yokohama ADO8R
 - Hankook RS-3
 - Dunlop Direzza ZII
 - Nankang NS-2R (street)
 - Nitto NT05
 - Dmack track day tyre

23. VEHICLE PASSPORT

- 23.1 Competing vehicles must be the subject of a Vehicle Passport issued by AASA and as required by the condition of the Event Regulations.

24. SAFETY HARNESS

Vehicles must be fitted with safety harnesses for each crew member that comply with the requirements listed below or specified in the Supplementary Regulations for the event. AASA recommends the use of 3 inch five/six point belts as the standard for rallycross competition. Safety harnesses shall be marked as having compliance to one or more of the following standards

- ECE 16 (European Standard)
- SFI 16.1 (SFI Standard)
- AS 2586 (Australian Standard)

Additionally, harnesses meeting the requirements of internationally recognised motorsport sanctioning bodies will be deemed acceptable.

A harness previously in compliance with an internationally recognised standard other than SFI 16.1, such compliance having lapsed through the efflux of time, may continue to be used for 5 years post the last date of compliance provided upon visual inspection it remains in serviceable condition. Any harness showing visible signs of wear, damage or degradation will be rejected.

The Safety harness may be mounted to either the OEM harness mounting points, to the safety cage, or to additional mounting points on the vehicle structure. Additional mounting points shall incorporate a steel reinforcement at least 3mm in thickness and in contact with surrounding vehicle structure over an area not less than 3750mm².

The fitment of harness mounting points to automobiles constructed of a material other than steel will be authorised by the AASA on an individual basis and recorded in the AASA Vehicle Passport

25. SEATS

Vehicles must be equipped with seats for each occupant, each seat being compliant with any one or more of the following:

- a. The original seat as supplied by the OEM for the vehicle; or
- b. A seat licensed by the SFI Foundation to the SFI 39.2 standard; or
- c. A seat in compliance with the requirements of an internationally recognised motorsport sanctioning body; or

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- d. A seat that has no provision for backrest adjustment, incorporates a head restraint and is supplied by a manufacturer recognised by the AASA.

Seats shall be mounted in accordance with the seat manufacturer's instructions. This shall include the use of each required mounting point and associated components supplied. Seats may be mounted, either separately or in combination, to

- the unmodified OEM seat mounting points on the vehicle's structure; or
- the safety cage; or
- additional mounting points, each incorporating a steel reinforcement at least 3mm in thickness and in contact with surrounding vehicle structure over an area not less than 3750mm². The fitment of additional seat mounting points to automobiles constructed of a material other than steel will be authorised by the AASA on an individual basis and recorded in the AASA Vehicle Passport.

26. TOW HOOKS

Vehicles must be fitted with appropriate tow hooks front and rear, fitted forward of the front axle and to the rear of the rear axle, clearly visible from front or rear of the car and indicated by 'Tow' signs. Each towing point shall be capable of permitting the insertion of a circular pin of diameter 40mm and be of sufficient strength to permit the vehicle to be towed with its wheels locked on an asphalt surface.

27. GENERAL VEHICLE AND APPAREL REGULATIONS

Important notes:

- (a) Some safety harnesses may not comply with public road laws. Where the car is to be driven on a public road, it is the competitor's responsibility to ensure that the car complies with the law.
- (b) A safety harness damaged in any way, including in a collision, shall be subject to inspection by a scrutineer. If appropriate, the automobile's log book shall be endorsed with a requirement that the belt / harness be replaced.
- (c) During competition, competitors must wear apparel as required by the AASA NCR's, Appendix 4 – Apparel Requirements (to Speed Events State Level) and Event Regulations. Rally X Sprint will comply with Club Level requirements. In the interests of competitors' wellbeing and the reputation of the sport, it is recommended that the highest possible level/specification of apparel and associated equipment be utilised by competitors.