

2LSS Class Racing Structure rules for 2023

V12..Revision Date 27/3/23

Rules Overview

The 2 Litre Sports Sedan Club was created for and continues to promote a cost effective racing class for under 2 Litre Sedans that comply with Motorsport Australia Group 3D Sports Sedan rules, but also for other typically 4 cylinder under 2 Litre based race sedans with comparable performance to 2 Litre Sport Sedans. As such there are three class groups

1. 2 Litre Sports Sedans

- The premier class (Class A) for the Club is the highly modified spaceframe cars.
- The floorpan Sports Sedan class (Classes B and C) are still heavily modified production 2WD cars that utilise the original factory floor pan.

2. Restricted Forced Induction Sedans

- The restricted forced induction class is intended for production based 2 litre forced induction 2WD and 4WD sedans.
- It is aimed at competitors who desire to race against Group 3D Sports Sedans without the need to extensively modify their cars.
- It is the intention of the Club to benchmark the Restricted Forced Induction Sedans to the Class B cars. The Club Committee will review the performance parity and make appropriate adjustments if and when required.

3. Invited Classes

- In addition to the above, 4 cylinder cars of similar performance to existing classes may be accepted as Invited cars. These entrants would not form part of the 2 Litre Sports Sedan Championship and as such would not be attributed any championship points.

Championships and Championship point scoring

The rules below pertain to the running of the 2 litre Sports Sedan Club Championship.

- To be eligible for points in the championships, competitors must comply with these rules in their entirety.
- Championship points are awarded to an individual competitor or officially registered team.
- Each competitor will be able to compete for outrights points for the Perpetual Club Championship Trophy as well as their respective Class Trophy.

CLASS RULES AND REGULATIONS

All cars are required to comply with the Motorsport Australia Group 3D Sports Sedan Regulations.

The sporting regulations stated below are supplementary to the Motorsport Australia regulations for Group 3D Sports Sedans and the General Requirements of the Motorsport Australia Manual of Motorsport.

Competitors should note Paragraph 1.1 in the Group 3D – Sports Sedans rules pertaining to the date of any car logbooked in 2006 or prior.

CLASSES

1. 2 LITRE SPORTS SEDANS

1.1 CLASS A: 0-2000cc SPACEFRAME

Any vehicle with an engine capacity of 0–2000cc including forced induction engines 941-1176cc
Minimum racing weight 780kg RWD (less 50kg for FWD)

1.2 CLASS B: 1601-2000cc FLOORPAN

Any vehicle with an engine capacity of 1601–2000cc including forced induction engines 941-1176cc Minimum racing weight 780kg RWD (less 50kg for FWD)
Sequential gearboxes are not permitted

1.3 CLASS C: 0-1600cc FLOORPAN

Any vehicle with an engine capacity of 0–1600cc including forced induction engines 0-940cc
Minimum racing weight 730kg RWD (less 50kg for FWD)
Sequential gearboxes are not permitted

1.4 CLASS E: APRA PULSAR

All cars in the class must comply with the APRA Pulsar technical regulations in entirety.
<https://www.apra.club/download/>

Note: These cars are treated as a subgroup of the CLASS B with an overlay of the APRA rules.

2. RESTRICTED FORCED INDUCTION SEDANS

2.1 CLASS D: RESCRICTED FORCED INDUCTION

to be eligible for inclusion in this group, the particular model of car shall:

- a) Be fitted with an up to 2000cc capacity forced induction engine
- b) FWD, RWD and AWD cars are permitted

2.2 Bodyshell and coachwork

- a) A production car that utilises the standard factory sheet metal shall be retained in the following areas: roof, pillars, door sills, floor section, sub-frame assemblies which incorporate suspension mounting points and standard pickup points, except where specific provision is made for modification of these items, as follows:
- b) Modification to the wheel wells to provide clearance for tyre and wheel assemblies
- c) Drilling holes for the fitment of permitted accessories and components
- d) Removal of unused standard brackets;

2.3 Vehicle weights

The following weights are minimum racing weights that include the driver.

- 2.3.1** Minimum weight Front Wheel Drive 1150kg
- 2.3.2** Minimum weight Rear Wheel Drive 1200kg
- 2.3.3** Minimum weight Four Wheel Drive 1250kg

2.4 Forced Induction Restriction

A restrictor must be fitted to the inlet tract prior to the air entering the turbo/super charger, so that all air used in the combustion process of the engine must pass through the restrictor. The maximum internal diameter of the restrictor is 36.0mm, the upstream extremity of the restriction must be situated a maximum of 50mm from the upstream extremity of the moving compressing media and be maintained for a distance of at least 3mm downstream.

2.5 Gearboxes

Sequential gearboxes are not permitted.

3. INVITED CLASSES

4 cylinder cars of similar performance to existing classes may be accepted as Invited cars.

Note: The INVITED CLASS regulations may be modified by the committee for parity reasons during the season to ensure that no cars are unfairly disadvantaged.

THE FINAL ADJUDICATION ON THE INTERPRETATION OF THE CLASS RULES LIES WITH THE CLUB COMMITTEE.

4. ENGINE SEALING

To be eligible to amass points in a 2 litre Sports Sedan Club Championship point score the competitor must use an engine sealed by a 2 Litre Sport Sedan Club approved engine sealer to validate its capacity.

4.1 Accruing Championship Points and Competitor responsibilities

- 4.1.1 Championship points will only be accrued to competitors that have a sealed engine, or have been given a written dispensation by the Committee. Any competitor running without an engine seal will not accrue championship points.
- 4.1.2 Any competitor who has their engine checked and is found to be non-compliant will forfeit all Championship points.
- 4.1.3 It is highly recommended that rebuilt engines have the bore and stroke measured before re-assembly. Engines not measured will be subject to Clause 4.2.2
- 4.1.4 Championship place getter trophies will only be awarded to competitors with measured engines.
- 4.1.5 It is the responsibility of the competitor to organise engine sealing and measurement of their engines and forwarding the relevant paperwork to the Club Engine sealer.

4.2 Engine Sealing and Measuring

Engines can be measured and sealed in two different ways

- 4.2.1 An engine can be measured and sealed prior to competition.
- 4.2.2 An engine can be sealed but not measured. Such engines will be subject to inspection, if requested at a later time.

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4.3 Engine Sealing Controls

- 4.3.1 The Club or a competitor can request an unmeasured engine to be opened for inspection. Expenses of such disassembly or examination will be paid by the person/s requesting the inspection, to a maximum of \$400. Reassembly of the vehicle after examination is the responsibility of the vehicle owner. All or part of the \$400 may be returned to the person requesting the measurement if the engine is non-compliant.
- 4.3.2 If any engine is found to be non-compliant, the cost of the disassembly and inspection will be borne by the entrant.
- 4.3.3 If an engine seal is required to be removed for repair work during a race meeting the competitor can request the attendance of a committee member during this process and a new seal fitted to replace the original one. The Committee member's attendance is to verify that no work was undertaken to change engine capacity.
- 4.3.4 Any competitor with a sealed but unmeasured engine, who declines to have their engine measured on request of the club will forfeit their championship points.
- 4.3.5 The Committee, at its discretion, may accept an engine measured by fluid volume check, the engine is still required to be sealed it is allowed to accrue point in the 2 litre Sports Sedan Club Championship.

- 4.2.6 A vehicle will remain eligible for the nominated class provided the actual capacity does not exceed the class capacity limit by more than 2.0%.

5. RACE MEETING AUDITS

- 5.1 All cars entered in a 2 litre Sports Sedan race may be subject to an audit process at any stage during a race meeting to ensure compliance with the 2 litre Sports Sedan Club and CAMS Group 3D Sports Sedan rules.
- 5.2 Competing cars must be made available at any stage during the race meeting for an audit by a member of the Club Committee or nominated representative.
- 5.3 Competing cars will be weighed on a regular basis throughout the Championship session.