



Competition Rules for 2023

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Street Cars Competition Rules for 2022

These rules shall govern all Street Car competitions promoted in the State of Western Australia by the "Street Car Racing Association of Western Australia Inc.", hereafter known as "SCRAWA" and by the authority of Motorsport Australia.

1. GENERAL

This group encourages considerable modification of eligible automobiles to render them more suitable for competition. Street Cars draws heavy inspiration from DTM, BTCC, Time Attack and Touring Cars from all generation and countries that have inspired people to build the cars that they have seen and want to race. Street Cars WA allows for dedicated circuit racing cars of generally free construction which utilises coachwork that represents an eligible production car.

1.1. LOGBOOKS:

Street Cars WA is open to any modified 2B/2F,3D, 3E, 3J and Tarmac Rally cars. They must conform to all specifications outlined in this document.

2. AUTHORITY

Street Car race meetings shall be conducted under the International Sporting Code of the Federation Internationale de l'Automobile (F.I.A), the National Competition Rules (NCR) of CAMS, the Race Meeting Standing Regulations as detailed in the Motorsport Australia Manual and the relevant Supplementary Regulations and any further regulations or instructions that may be issued (see NCR 61).

3. CATEGORY ORGANISER

The organising category association of Street Car competition is known as **The Street Car Racing Association of Western Australia Inc.** (SCRAWA).

4. ELIGIBILITY

4.1. DEFINED CAR:

The basis for the vehicle, and name by which it is known, will be the body/chassis unit of an eligible car. The use of eligible exotic or interesting vehicles as the Defined Car is encouraged.

4.1.1. The onus of proof of vehicle eligibility rest with the individual competitor at all times

4.1.2. The Defined Car is the production car.

4.1.3. To be eligible the Defined Car must be a Sedan, Coupe or Hatchback series production closed car, and must be or have been:

4.1.3.1. on sale in Australia through a recognised manufacturer franchised dealer network; or

4.1.3.2. of a type of which a minimum of 5,000 examples have been manufactured worldwide; or

4.1.4. In all cases, the model of each eligible car will be the reference for all vehicle dimensions. Where enhanced versions based on production cars have been produced by the manufacturer may differ from the basic version in wheelbase, track width, maximum width and length of coachwork; then in all cases the dimensions of the Street Cars will be based on the actual version of the car being represented

4.2. SCRAWA COMPETITION REGISTRATION

To be eligible to score points competing in SCRAWA series both driver and entrant must be financial members of any MSA affiliated club. To be eligible for the internal SCRAWA trophy, driver and entrant must be financial members of SCRAWA.

5. THE STREET CAR

5.1. CONSTRUCTION:

Each Street Car shall be constructed utilising metal pressing chassis (floor pan construction) as follows:

- 5.1.1. Street Car: A heavily-modified two wheel or four wheel drive production car that utilises the standard factory material including roof, pillars, door sills, floor section, strut towers and chassis rails except where specific provision is made for modification of these items, as follows;
 - 5.1.1.1. Relieving the wheel well to provide clearance for tyre/wheel assemblies
 - 5.1.1.2. Modifying/altering the front fender support bars, front radiator support and bumper support can be changed to a tube system
 - 5.1.1.3. Drilling holes for fitment of permitted accessories and components
 - 5.1.1.4. Removal of unused standard brackets
 - 5.1.1.5. Driver seat floor relief
- 5.1.2. Each Street Car shall have four wheels, of which only the front two are used for steering.

5.2. SAFETY CAGE:

Each Street Car shall incorporate a safety cage structure compliant with Schedule J. (refer Motorsport Australia Manual General Requirements for Cars and Drivers)

5.3. RACING WEIGHT:

The minimum racing weight for **vehicles** at any time including the driver and wearing all apparel will be determined by the capacity of the engine, tyre width and tyre aspect ratio (Base minimum weight table) including (plus or minus where applicable) any supplementary weight (Supplementary minimum weight requirement table) as per 2WD and 4WD tables

Cars that are 2 litre capacity or under that are FWD reduce the weight required by 50kg

2WD Maximum Tyre Width (mm)/Minimum Aspect Ratio (%) for Race Weights (kg)					
Engine Capacity	225/45	245/40	265/35	285/30	(295/30)
Up to 1600	850	900	950	1000	1050
1601-2060	900	950	1000	1050	1100
2061-2500	950	1000	1050	1100	1150
2501-3550	1000	1050	1100	1150	1200
3551-4500	1050	1100	1150	1200	1250
4501-5100	1100	1150	1200	1250	1300
5101-6000	1150	1200	1250	1300	1350
4WD Maximum Tyre Width (mm)/Minimum Aspect Ratio (%) for Race Weights (kg)					
Engine Capacity	225/45	245/40	265/35	285/30	295/30
Up to 2060	1050	1100	1150	1200	1250
2061-2500	1100	1150	1200	1250	1300
2501-3550	1150	1200	1250	1300	1350
3551-4500	1200	1250	1300	1450	1500
4501-5100	1250	1300	1350	1400	1450
5101-6000	1300	1350	1400	1450	1500

5.4. CLASSES:

5.4.1. Classes will be based upon lap times as the following (all based upon long circuit configuration)

CLASS	Carco.com.au RACEWAY	COLLIE MOTORPLEX
Street Car A	63.0000 seconds or below	78.0000 seconds or below
Street Car B	63.0001 to 66.9999	78.0001 to 82.9999
Street Car C	67.0000 seconds or above	83.0000 seconds or above

5.4.2. Penalties will apply to classes B and C based on the time parameters.

5.4.2.1. If during qualifying a lap time is recorded that is faster than your group bracket, then that lap time will not be counted

5.4.2.2. During all races, competitors in class B and C may achieve ONE lap time below the class minimum before a thirty second penalty is applied post-race per lap below the defined minimum. This will affect grid position of the next race.

5.4.2.3. Championship points will be allocated after penalties have been applied

5.4.3. Class Movement

5.4.3.1. A driver may apply to move classes if they believe that they are faster/slower than their designated class. This application must be made to the Street Car Racing Association of Western Australia Committee and will be decided upon with evidence

5.4.3.2. If a driver is going faster than their designated time for more than and including 50% of their completed laps in their class during 2 continuous races in one meeting, then they will automatically be moved to the higher class.

5.4.3.3. Classes have their own points and are not transferable

5.4.3.4. Competitors can have their class altered by the Street Car Racing Association of Western Australia Committee with consultation if the competitor is deemed to be purposefully withholding lap times during an event

6. COACHWORK

6.1. COACHWORK:

6.1.1. The body shell (deemed to be all externally visible body panels) shall be unchanged in external shape except as provided for within these regulations.

6.1.2. The silhouette of the Defined Car shall remain unmodified apart from the modifications permitted in these regulations.

6.2. MATERIALS:

6.2.1. Body panels may be replaced by panels of optional material but have to be reflective of the original defined car so that the car is still recognizable as that defined car. These panels are restricted to front and rear bumper, bonnet, guards, doors and boot/boot lid. Additions to replacement and modified body panels, where permitted, shall be manufactured from one of the following:

6.2.1.1. Material of the same gauge and composition as the original part; or

6.2.1.2. Aluminium, or aluminium alloy, of a gauge not thinner than 1.2mm (commercial grade tolerances); or

6.2.1.3. Glass fibre and/or glass-reinforced plastic, carbon fibre and/or Kevlar composite materials of a gauge not thinner than 1.5mm.

6.3. ROOF:

- 6.3.1. Each car manufactured or fitted as standard with a sunroof shall have a permanent replacement panel fitted into the sunroof opening so as to make the roof section one piece. Each such panel shall be made from materials as defined in Section 6.2.

6.4. FRONT & REAR BUMPERS AND PANELS:

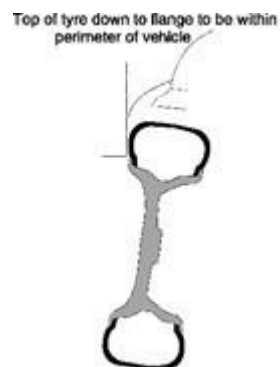
- 6.4.1. Front and rear bumpers and panels are free save for that they have to be a separable component that is individually removable. No full "clips" are allowed. Materials must comply to Section 6.2.

6.5. MUDGUARDS

- 6.5.1. Mudguards are free save for that they have to be a separable component that is individually removable. No full front "clips" are allowed. Materials must comply to Section 6.2.

6.6. WHEEL TRACK:

- 6.6.1. The upper part of the tyre, down to the flange (top of rim) over the hub centre must be within the perimeter of the automobile when viewed vertically from above. Flares or extended mud guards can be used up to the maximum of 100mm per side. See below



6.7. BONNET:

- 6.7.1. Bonnet is free save for the construction of materials must be compliant with Article 5.2

6.8. DOORS:

- 6.8.1. **Front doors:** All doors must be functional and shall retain the original external shape, size and proportion save for the modification to fit side skirts. All window regulator mechanisms may be removed. Original front door catches and hinges may be replaced with suitable alternative fittings. Internal anti-theft locks shall be rendered inoperative or removed. The driver's window net is to be attached to the roll cage and/or chassis in accordance with Schedule I.

6.9. FLOOR:

- 6.9.1. No modification of the floor is allowed except for cut outs for recesses for pedal boxes, seat position, or transmission clearances

6.10. FIREWALL:

- 6.10.1. No modification of the position of the firewall is allowed. Any redundant holes/penetrations shall be filled with the same material as the original firewall or approved fireproof material

7. INTERIOR

7.1. INTERIOR:

- 7.1.1. All standard interior fittings and/or trim may be removed.

- 7.1.1.1. Any front door trim that is removed shall be replaced with a flush-fitting rigid material (refer Section 5.2). Local modifications shall be permitted to facilitate fitment of safety cage members and/or anti-intrusion bars.

- 7.1.1.2. Each window may be replaced by a suitable rigid transparent material of adequate strength (e.g., polycarbonate), which shall be of a minimum material thickness of 3mm for side and rear windows, and a minimum material thickness of 6mm for the windscreen, save that the fitment of front side windows is optional. It is permitted to fit one NACA type duct in each of the front door windows. It is permitted to fit a maximum of two NACA type ducts in each rear side window.

8. AERODYNAMIC AIDS

8.1. AERODYNAMIC AIDS:

- 8.1.1. It is permitted to fit a rear wing:
- 8.1.2. Each wing mount shall not provide vertical thrust.
- 8.1.3. No part of the wing assembly shall be movable or adjustable while the car is in motion.
- 8.1.4. No part of the wing assembly shall be higher than a horizontal line drawn from the highest point of the roof except for hatchbacks which shall be allowed to extend 200mm higher.
- 8.1.5. The wing shall be of a single element only. It may not extend past the rear bumper by more than 200mm and not be wider than the widest part of the bodywork.
- 8.1.6. It is permitted to fit a front splitter. Splitters can not extend past the front bumper by more than 150mm. No part of the splitter may be past the leading edge of the front tyre. Maximum of 2 canards are allowed per side of front bumper.
- 8.1.7. It is permitted to fit a rear diffuser. The diffuser may have vertical vanes fitted. No part of the diffuser should be forward of the leading edge of the rear tyre. Rear diffuser has to fit between the inside faces of the rear tyres. Trailing edge of diffuser shall not extend past the rear most part of the rear bumper

9. MECHANICAL COMPONENTS

9.1. BRAKES:

Free

9.2. SUSPENSION:

Free apart from the design must be no more than 4 springs and dampeners per vehicle

9.3. TRANSMISSION

Free

9.4. ENGINES:

Free. Any engine over a 6000cc capacity is restricted to the vehicle that it was originally fitted in.

To establish engine capacity;

A multiplying factor of 1.7 applies to forced induction engines

A multiplying factor of 1.75 applies to rotary engines

9.5. EXHAUST:

Free but must comply with Schedule B of General Requirements for Cars and Drivers

9.6. WHEELS AND TYRES:

- 9.6.1. Wheels are free
- 9.6.2. Tyres shall be from Schedule E

10. ELECTRICAL COMPONENTS

10.1. DESIGN AND CONSTRUCTION:

The design, construction and materials of the electrical system and components shall be free save for the following:

- 10.1.1. The original external shape and location of all lighting and signaling equipment must be retained.
- 10.1.2. The original external shape and location of all front lighting and lights equipment of the defined vehicle must be retained, however does not need to be functional. Where an original headlamp and/or signaling light is removed, a forward-facing vent with the original external shape and location can be installed. A replacement light of equivalent of 50watt per side must be operational for night races.
- 10.1.3. Each tail lamp and brake lamp shall remain operable, with a minimum power of 3 Watts for each tail light, and a minimum of 20 Watts for each brake light (or the LED equivalent).

10.2. ELECTRONIC SYSTEMS:

10.2.1. For the purpose of these regulations, a performance electronic system is defined as a computer controlled device that manages, governs or directs the automatic operation or control of equipment.

10.2.2. The following Performance Electronic systems are permitted:

10.2.2.1. Traction control

10.2.2.2. Launch control

10.2.2.3. Electronic throttle actuation (fly by wire)

10.2.2.4. Engine management

10.2.2.5. Data logging

10.2.2.6. Telemetry – car to pit only

10.2.2.7. Paddle Shift – see 10.3

10.2.3. The following performance electronic systems are not permitted:

10.2.3.1. Differential action/adjustment/control of any type

10.2.3.2. Clutch control of any type

10.2.3.3. Suspension or Damper adjustment/control

10.2.3.4. Automatic Gear Selection or shifts

10.2.3.5. Antilock Braking Systems

10.2.3.6. Stability system

10.2.3.7. Ride height control

10.2.3.8. Telemetry – pit to car

10.2.4. The following performance electronic systems are only permitted if fitted as an unmodified OEM system from the Defined Car:

10.2.4.1. Stability control

10.2.4.2. Suspension control

10.2.4.3. Damper adjustment

10.2.4.4. Antilock Braking System

10.2.4.5. Differential adjustment control

10.2.4.6. Ride height control

10.2.4.7. Rear wing adjustment

10.2.4.8. Automatic Gear selection

10.2.4.9. Clutch control

10.2.5. Electronic engine and transmission management systems (e.g. Electronic Control Units and Transmission Control Modules) of free design and operation shall be permitted, provided they have no control of any of the items defined in Article 9.2.3 of these regulations.

10.3. Paddle Shift Systems

10.3.1. Driver initiated gear change requests to an electronically controlled gearshift system are permitted only if the vehicle was originally equipped with them and must remain OEM

11. SAFETY

11.1. FUEL & FUEL TANKS:

The design, construction and components of the fuel system shall be free save for the following:

Only fuel as defined by Motorsport Australia shall be used in accordance with Schedule G. An original fuel tank may be replaced but must comply to Schedule N

12. VEHICLE MARKINGS

Each vehicle shall display the minimum weight (in whole kilograms), maximum tyre width, as displayed on tyre, (in whole millimetres) and minimum tyre aspect ratio (as a percentage) as per Section 5.3. This number shall be known as the "Weight Number".

The Weight Number displayed will be formatted and comprise of the following information:

MINIMUM WEIGHT – MAXIMUM TYRE WIDTH – MINIMUM TYRE ASPECT RATIO

The displayed Weight Number shall be black text on a white background. Minimum height of the text is 35mm and it shall be formed from either "Helvetica Bold", "Zurich Bold" or "Arial Bold" typestyles.

(b) The size of the displayed Weight Number and background shall be in accordance with Diagram 1a) or Diagram 1b). The location of the Weight Number shall be within the highlighted area in accordance with Diagram 2a) indicating placement and 2b) showing examples for signage on the left-hand side of the vehicle.

Note: All weight number stickers are to correspond to weight tables listed in Appendix A or B for the vehicle to be compliant with these rules

Diagram 1a)



Diagram 1b)

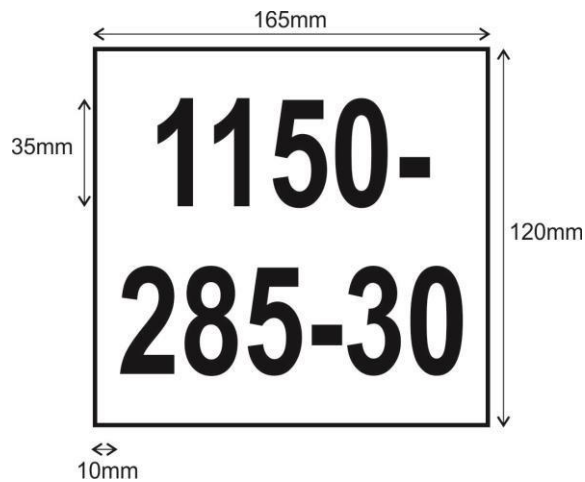


Diagram 2a) – Vehicle Markings Placement

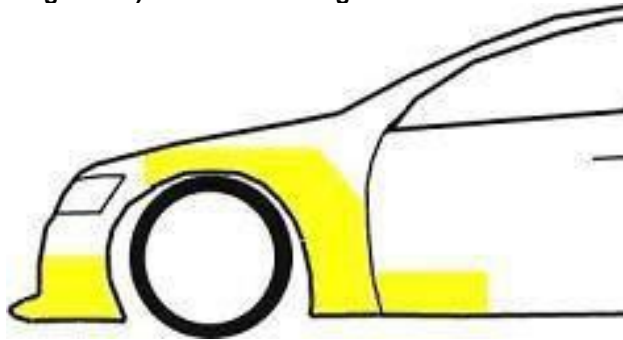


Diagram 2b) – Vehicle Markings Examples

