

Modified Article	Date of Application	Date of Publication

GROUP 2F – GROUP 2F PRODSPORTS

1. DEFINITIONS

1.1 GROUP 2F PRODSPORTS

A race vehicle derived from a registrable production sports car, with limited modifications to improve performance and reliability in speed events and races.

1.2 ELIGIBILITY:

- Cars must be derived from the Eligible Automobiles List approved by Motorsport Australia. Vehicles shall be representative of mass-produced vehicles, featuring fully enclosed bodywork, of which a minimum of 500 were produced world-wide in at least one 12 calendar month period. Unless otherwise specified, such vehicles shall compete in their basic form for the model represented.
- The Sports Car Racing Association of Australia (SCRAA) will make representations to the Motorsport Australia Australian Motor Racing Commission (AMRC) on behalf of its members.
- The AMRC shall be solely responsible for making recommendations to Motorsport Australia with regards to all matters relating to the recognition by Motorsport Australia of any vehicle as a Sports Car.
- Notwithstanding the provisions of Article 1.2 Motorsport Australia reserves the right to include or restrict other makes and models, or parts from such, at its sole discretion.

1.3 ELASTOMERIC BUSHINGS

Suspension components utilising an elastomer (e.g. rubber, urethane) to permit freedom of movement in three axes at suspension pivot points. Where the bush incorporates an outer metal shell and/or central crush tube, they shall be regarded as part of the bushing. Where the bushing is integrated with the arm or other secondary component, only the elastomer material shall be regarded as the bushing for replacement purposes.

1.4 DECORATIVE STRIPS

These are defined as any parts following the external contour of the bodywork and less than 100mm high; the function of which is to prevent minor body damage or is decorative. Badges describing the vehicle manufacturer and/or model are considered to be within this definition.

1.5 MATERIALS

Components which are for decorative purposes only and which are in nature not structural/ load-bearing (e.g., instrument surrounds, facia panel decorations), may be formed from carbon fibre or carbon/Kevlar matting. The use of carbon/carbon Kevlar composites, or titanium alloys, in any non-standard structural or mechanical component, unless specifically provided for by an article in the present regulations, is prohibited.

1.6 FREE

A component, deemed to be free under these regulations may, where fitted to the vehicle as standard, be removed or replaced. Where the removed component is replaced, the replacement is not restricted in design or material (unless otherwise specified) providing it performs only the same function. No modification may be made to surrounding components or bodywork to which the replacement is fitted, unless otherwise permitted. Where freedom is granted for the fitment of any component, such freedom is restricted to that component and such modifications as are allowed in Article 3.10. For the purpose of this article, a component shall be deemed to include all other components with which it is integrated, or to which it is attached by means the manufacturer intended to be permanent. Where a system is deemed as free, all components solely associated with that system are regarded as free, as per above.

2. REGULATIONS

2.1 ROLE OF Motorsport Australia

The following technical regulations for Group 2F Prodsports are issued by Motorsport Australia and must be read in conjunction with the relevant Schedules of “General Requirements for Cars and Drivers”.

2.2 PUBLICATION DATE FOR AMENDMENTS:

Each year in January at the latest, Motorsport Australia will publish all changes made to these regulations in the Motorsport Australia Manual. Changes made for safety may come into force without notice. Motorsport Australia reserve the right to alter regulations at its discretion.

2.3 MEASUREMENT

All measurements relevant to the bodywork and suspension must be made while the car is stationary on a flat horizontal surface, without driver and with the steering centred.

2.4 LOG BOOK/ELIGIBILITY

The Competitor is responsible for furnishing any documentation to prove the eligibility of any part used or modification performed otherwise outside of these regulations.

2.5 STANDARD EQUIPMENT

Where an article in the present regulations refers to standard equipment, it refers to the specifications of or parts fitted to the particular model or marketing designation of the vehicle as supplied by the manufacturer. Parts available as options, whether at additional cost or not, are not eligible unless otherwise specified. The model represented shall be as specified on the entry form.

2.6 MODIFICATIONS

Any aspect relating to the construction, modification and/or preparation of the vehicle, which is not specifically authorised in the present regulations, is forbidden. The only work which may be otherwise performed on the car is that necessary for normal servicing or the replacement of parts damaged by wear or accident, or that required under Schedules A, B and C (refer “General Requirements for Cars and Drivers”). Unless otherwise specified, a part replaced through damage or wear must only be replaced by an original part identical to the previously undamaged one.

3. BODYWORK AND DIMENSIONS

3.1 STRENGTHENING

It is permitted to seam weld the bodyshell. Metal to a thickness of up to 5mm may be added to fully sprung components to a distance of 75mm from the edge of each suspension pivot point aperture. Such metal must follow the contour of the original metal at all times. It is not permitted to add or incorporate any other components which contribute to the rigidity of the bodyshell, other than the roll over protection structure as described in Article 13.1, and a strut tower brace as described in Article 8.7.

3.2 AERODYNAMIC DEVICES

(e) **General:** Any specific part of the car influencing its aerodynamic performance fitted as specified in this article:

- (i) May not be used for mounting any additional devices or performing any alternative functions other than the channelling of air for cooling purposes.
- (ii) Must be rigidly secured to the entirely sprung part of the car (rigidly secured means not having any degree of freedom).
- (iii) Must remain in its entirety immobile in relation to the remaining sprung parts of the car. Where an original aerodynamic device incorporates a moveable component, such adjusting mechanism must be rendered inoperative and the component fixed into position.

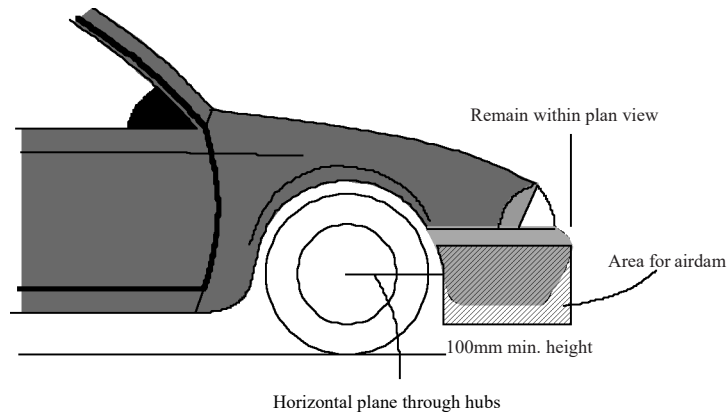
(b) **Front aerodynamic devices:**

It is permitted to fit an airdam to the front of the car, subject to the following restrictions:

- (i) It is completely contained within the vertical projection of the original vehicle (see diagram 1).
- (ii) No part below a horizontal plane passing through the centre of the wheel hubs at their extremities may extend further rearward than the wheelarch opening at the forward point where it intersects this plane.
- (iii) No part above a horizontal plane passing through the centre of the wheel hubs shall extend into the wheelarch opening

- (iv) No undertray is permitted to the airdam.
- (c) **Rear aerodynamic devices:** It is permitted to fit a rear deck spoiler or wing provided it was supplied as a factory option for that particular model of vehicle or another model of the same family of vehicle. It is permissible to replace one rear aerodynamic device with another complying with the present article.

DIAGRAM 1



3.3 COCKPIT COVERING, OPEN VEHICLES

It is permitted for the cockpit opening of open vehicles to be partially covered by a tonneau cover, able to be removed without the aid of tools.

Where a manufacturer provides a hard top as a factory option;

- (i) The factory option hard top may be installed in compliance with the manufacturer's instructions.
- (ii) An aftermarket hard top may be installed providing that it follows the same general shape as the factory option and its shape has been approved for use by the SCRAA.
- (iii) a vehicle so equipped remains considered as an open vehicle.

3.4 VEHICLE EMBELLISHMENTS

External decorative strips and mud flaps may be removed. Sump guards/splash guards may be removed or added. If sump/splash guards are added and they are in contact with the external airstream, they must be perforated with 50mm diameter holes with centres of maximum 150mm apart. No part of any additional or replacement sump/splash guard may extend to the rear of the rearmost point of the engine block as installed in the vehicle.

3.5 REGISTRATION PLATES

Registration plates, registration plate mountings and associated lighting components may be removed.

3.6 SOUND DEADENER

Sound deadener (bitumen and fabric types etc.) may be removed from the body shell and hung panels.

3.7 WINDSCREEN AND MIRRORS

Unless fitted as standard with a non-glass windscreen, the windscreen must be of laminated glass, and may incorporate defrosting equipment. Where the windscreen is demountable, it may be removed. External rear view mirrors may be replaced or deleted, provided that Schedule C (refer "General Requirements for Cars and Drivers") is respected at all times.

3.8 BONNET CATCHES

The original bonnet fasteners and release mechanisms may be removed. At least two separate fasteners for the bonnet must be fitted.

3.9 WINDOW REGULATORS

Where a car is fitted with electric window regulators, it is permitted to replace them with manual window regulators and, where necessary, door trims from the same family of vehicle. Electric door lock actuators may be removed or rendered inoperative.

3.10 GENERAL

Holes may be drilled for fasteners (e.g. bolts, screws, rivets etc.). It is permitted to cut holes of the minimum necessary dimension for the passage of wiring, and fuel, brake and oil lines/hoses.

3.11 TIMING DEVICE

It is permitted to remove the minimum amount of metal necessary to facilitate fitment of a timing transponder to the upper surface of the cockpit floor.

3.12 RACING WEIGHT

Vehicles shall be required to comply with the racing weights as may be set out on the Recognition list.

3.13 TYRE CLEARANCE

For the purpose of wheel and tyre clearance minor reshaping of impinging body work is permitted provided the external appearance of the bodywork around the wheel arch is unchanged.

4. ENGINE

(a) **Reciprocating engine:** The cylinder block may be bored to a maximum 1.5mm oversize. The cylinder may be modified by the removal of metal save that the original components must always be able to be identified. The internal rotating and reciprocating components, including the camshaft/s are free, but the original stroke must be respected.

(b) **Rotary engine:** The rotors, tip seals and crankshaft are free. The ports in the end and intermediate plates may be modified by the removal of metal, including "bridge" porting, but the original O-ring seals must remain unmodified and in their original location.

4.1 FUEL SYSTEM

The carburettor, where fitted, may be replaced by one of free design. On fuel injected vehicles, the fuel injectors, engine control unit and associated wiring harness are free. Air cleaners and their housings are free. The inlet manifold may be modified by the removal of metal provided the original component is able to be identified.

4.2 SUPERCHARGING

(a) Where supercharging is recognised as standard production for the model, the boost pressure may be altered.

(b) The drive pulleys of a mechanical supercharger may be modified to alter drive speed.

(c) A restricting orifice must be fitted to the inlet tract prior to the air entering the supercharging device/s so that all air used in the combustion process of the engine must pass through the orifice/s.

(d) The maximum internal diameter of the air intake into the compressor is 34mm for a single supercharger or 24mm for each of two superchargers and must be maintained for a distance of at least 3mm.

(e) The maximum diameter of the restricting orifice must be complied with at all operating temperatures. For vehicles utilising a turbine type compressor, the restrictor must be fitted as per drawing 254-4 in the Motorsport Australia Manual.

(f) For other types of superchargers, the upstream extremity of each restriction must be situated a maximum of 50mm from the intake port of the compressor housing.

4.3 OIL SYSTEM

Dry sump systems are permitted. The oil tank must be situated in the luggage compartment where possible or otherwise fully shielded from the cockpit. Oil lines may pass through the cockpit provided they are insulated and there are no joins save those at the front or rear bulkheads.

4.4 EXHAUST

For a turbocharged/supercharged vehicle the exhaust manifold and turbo supercharger must remain a standard. The complete exhaust system is free downstream of the exit from the turbo housing. For other engine configurations, the exhaust is free from the cylinder head exhaust port. The original exhaust mounting brackets

may be removed and additional brackets may be fitted, provided that their sole function is the location of the exhaust.

4.5 ENGINE MOUNTS

The elastomeric components of the engine mounts may be exchanged for a harder grade of elastomer.

4.6 FLYWHEEL AND CRANKSHAFT DAMPER

The flywheel may be replaced by a unit of free design and manufactured from steel. The starter ring gear must be the original component secured to the flywheel as per the original. The torsional damper is free.

5. PIPING AND FUEL TANKS

5.1 FUEL TANKS

- (a) The fuel tank may be modified or replaced by one of free design; an FIA-approved (FT3 or greater specification) bladder tank is recommended.
- (b) It must be mounted in the same general location, where possible utilising the existing mounting facilities, or in the luggage compartment.
- (c) For all vehicles, a flame and liquid-proof bulkhead must be fitted between the driver and all internally mounted fuel system components save for fuel lines as per 5.3 below.
- (d) The articles of Motorsport Australia Manual Schedule N (Fuel Tanks and Refuelling) shall also apply including Article 2.8 in regard to the maximum capacity.

5.2 TANK FILLERS

- (a) Dry Break fittings are permitted and must be fitted in compliance with Schedule N (refer "General Requirements for Cars and Drivers"). Tank fillers must not protrude beyond the bodywork and must be affected in such a way that no fuel spilt in the filling process will leak into the interior compartments of the car.
- (b) Where the existing fuel filler position is retained, the standard filler orifice may be modified to accept a replacement cap of free design.
- (c) Alternatively, the filler may be relocated into the luggage compartment; an opening of a maximum 250mm x 250mm may be made in the floor of the luggage compartment for access to underfloor tanks.

Note: In all cases, tank fillers must be designed to ensure an efficient closing action which reduces the risk of accidental opening following a crash impact.

5.3 FUEL PUMPS/FILTER

Fuel pumps, fittings, and filters are free. Fuel lines must be made from a material suitable for the purpose. Where the fuel lines pass through the cockpit, there must be no connections within the cockpit save at the front and rear bulkheads.

6. COOLING SYSTEM

6.1 RADIATOR, COWLS AND FANS

The radiator is free providing that the only body modification required for fitment is the drilling of holes for mounting purposes. Radiator cowls/shrouds on the rear of the radiator for the purpose of sealing a fan may be removed. Radiator cowls in front of the radiator must be retained in their entirety. It is permitted to add additional shrouds or ducting. Engine cooling fans are free.

6.2 OIL COOLERS

Engine oil coolers are free subject to Article 1.6.

6.3 INLET CHARGE AIR COOLING

Where supercharging is used, the pipes between the intercooler (if fitted), manifold and the supercharging device are free but their only purpose must be to channel air.

7. TRANSMISSION TO THE WHEELS

7.1 FINAL DRIVE

The differential centre is free

7.2 COOLING

An additional lubricant cooling device, including a fan is permitted. The circulating pump, radiator, and air intake may not be located in the cockpit.

7.3 CLUTCH

The pressure plate and clutch plate is free.

7.4 TAILSHAFT/DRIVESHAFTS/AXLES:

The tailshaft/driveshafts/axles and associated universal or CV-joints are free.

8. SUSPENSION AND STEERING

8.1 SPRINGS

Springs are free provided that the type and location are unchanged (where type” means coil, torsion bar, leaf etc.).

8.2 BUMP STOPS

Bump stops, being the components designed to ultimately limit the suspension travel, are free and may be repositioned.

8.3 BUSHES

Elastomeric bushes used at suspension pivot points may be replaced by elastomeric bushings (e.g. urethane may replace rubber). Replacement bushings may be offset/eccentric.

8.4 SUSPENSION DAMPERS

The make and size of suspension dampers are free. The number of dampers and pivot point locations may not be altered.

8.5 WHEEL BEARINGS, HUBS AND TRUNNIONS

Trunnions are free. Bearings may be replaced by mechanically identical components. On vehicles with live rear axle assemblies, semi-floating axles may be replaced by full floating axles. Rear axle housings may be modified to facilitate the fitment of suitable spindles, associated hubs and bearings.

8.6 MACPHERSON STRUT TOP MOUNTS

MacPherson strut top mounts are free providing that they utilise the standard bodyshell mounting facilities.

8.7 STRUT TOWER BRACE

A brace of free design may be fitted between the front suspension towers providing it only links the towers and connects within 150mm of the suspension pivot points

8.8 ANTI-SWAY BARS

Original anti-sway bars may be replaced by others mounted in the same mounting location. Where no bar is fitted originally it is permitted to add one, including mounting points. Linkages between the anti-sway bar and suspension components or bodyshell are free.

8.9 RIDE HEIGHT ADJUSTMENT

Adjustable spring platforms, rear leaf spring shackles, spacers located directly at either end or between coil springs, lowering blocks of solid/rigid material and torsion bar ride height adjusters are free.

8.10 WHEEL TRACK

The front and rear track dimensions are free save that the upper part of the tyre, down to the flange over the wheel hub centre must be within the perimeter of the vehicle when viewed vertically from above (see diagram 2). Track extenders or spacers may be used provided that they are fixed to the hub.

DIAGRAM 2



8.11 ADDITIONAL LINKAGES

Where a live rear axle is located by leaf springs (Hotchkiss suspension), it is permitted to fit a Panhard rod or watts link and associated brackets to the vehicle. Such brackets must only involve the addition of metal.

8.12 RIDE HEIGHT

In as raced condition, all fully sprung parts of the car, with the exception of the entire exhaust system, must be at least 100mm above the ground when measured on a flat level surface.

8.13 WHEEL ALIGNMENT FACILITIES

The wheel alignment settings are free. It is permitted to relocate all pivot points radially by up to 20mm within the confines of the existing mounting brackets or body panels. No metal may be removed save that directly associated with the actual pivot point relocation. For vehicles with a live rear axle, camber or toe may vary by no more than $1/2^\circ$ from standard. Tie rod ends are free.

9. BRAKES

9.1 MASTER CYLINDERS

The brake master cylinder assembly (including power boosters and associated pushrods) may be replaced provided that the replacement master cylinder/s and power booster or other such system utilises the existing mounting facilities. A dual master cylinder system with cockpit adjustable brake bias is permitted. Brake proportioning valves may be added or interchanged freely. Anti-lock brake systems may be removed or deactivated.

9.2 BRAKE ROTORS

The standard brake rotors may be replaced. Such replacements may be of free design providing that they are made from a ferrous material. Discs may be interchanged with drums. Disc mounting hats are free subject to their being made from aluminium alloy or ferrous material.

9.3 BRAKE CALIPERS

Brake calipers and pads are free, subject to the following:

- (i) Where the standard brake caliper contains less than 4 pistons, it is permitted to fit a replacement brake caliper of up to 4 pistons.
- (ii) Where the standard brake caliper contains 4 or more pistons, a replacement caliper can have no more pistons than the standard caliper.
- (iii) Only one brake caliper is permitted per wheel.
- (iv) Each brake caliper must be mounted using the standard mounting points however an adapter bracket may be used.

9.4 HANDBRAKE

Handbrake mechanisms are free.

9.5 BRAKE COOLING

Protection shields/stone guards on unsprung components may be added or removed. It is permitted to fit ducting for the passage of air to the brakes provided that it remains within the perimeter of the coachwork when viewed from above and that no bodywork alterations are required.

10. WHEELS AND TYRES

10.1 WHEELS

Wheels may be replaced by others of free design. Where the wheels supplied by the car manufacturer are not retained, the maximum rim width and diameter of the replacement wheels, based on the vehicle weight is given in the table below:

Racing Weight*	Maximum Rim Width	Maximum Diameter
Up to 930kg	7"	16"
931 – 1280kg	8"	17"
Above 1280kg	9"	18"

NOTE: The spare wheel, jack and any associated brackets may be removed.

* Refer to Definitions - Technical (refer "General Requirements for Cars and Drivers").

10.2 TYRES

At the commencement of any race or practise session each tyre must:

- (i) Be of a type included on the current Motorsport Australia Production Car Tyre list.
- (ii) Have at least a minimum tread depth. The definitive method of determining minimum tread depth shall be the tread wear indicators provided by the tyre manufacturer. At no time prior to practise or racing may any tread wear indicator be exposed or in the case where the indicator is a dimple in the tyre, worn below such indicator. This does not apply to the shoulder of the tyre.
- (iii) Be fitted on to a rim in compliance with Schedule E (refer "General Requirements for Cars and Drivers").

11. ELECTRICAL

11.1 ELECTRICAL SYSTEM

The wiring and electrical connectors, switches, fuses and circuit breakers, starting, ignition and generating systems are free. The starting, lighting and turn signalling apparatus must be in working order at the start of each competition. All globes must at least meet the original equipment specification.

11.2 BATTERY

The battery and its location are free, but it must be safely and securely mounted. It must be adequately covered so as to prevent short circuits and leakage, in any position. Where the battery is relocated, the original battery mountings may be removed.

11.3 WINDSCREEN WIPERS

The windscreen wiper mechanism may be removed where the windscreen is removed. The wiper blade tension springs may be modified, and wind deflectors added. Headlight and rear window wipers and washers may be removed. The windscreen washer bottle, pump and hoses and any mounting bracket are free. Windscreen wipers must rest in the same location as on a standard car of that make and model.

12. COCKPIT / DRIVER'S COMPARTMENT

12.1 STEERING WHEEL

The steering wheel may be replaced by one that is of at least 300mm diameter. It is permitted to add a steering wheel boss, possibly incorporating a quick release mechanism, to enable the fitment of a permissible steering wheel. The steering column may be repositioned by the addition of spacers/longer bolts at the existing rear mounting points provided no other modifications are required.

12.2 CONTROLS

All driving controls must retain the role laid down for them by the manufacturer. Footrests and heat protection panels may be added to the driver's footwell cavity. Pedals may be modified, but not the mounting points.

12.3 INSTRUMENTS

Instruments are free, but the original dash must remain. Any holes in the dash resulting from the removal of instruments must be neatly closed by the addition of a closing panel. Where possible, all replacement

instruments must be mounted in the dash where the original instruments were situated but may otherwise be mounted in a panel in front of the original dash.

12.4 CARPET AND INTERIOR TRIM

Roof lining and interior trim down to the lower edge of the windows in closed cars may be removed. Consoles on the transmission tunnel and which are not integrated with the dash assembly may be removed. Floor carpet and associated "underfelt" may be removed. Flat panels trimmed to match the original items may replace moulded door trims for the purpose of fitting a Safety Cage.

12.5 SEATS

The driver's and/or front passenger's seats may be replaced with other seats in compliance with Schedule C (refer "General Requirements for Cars and Drivers"). Original seat mountings may be removed or replaced and/or other mountings added provided that they extend no further than 50mm from the plan view of the seat. The passenger and rear seats if fitted, and associated seat belts are free. The use of carbon fibre composites in replacement seats is permitted.

12.6 REMOVABLE REAR WINDOW SHELF

The removable rear window shelf in two volume cars may be removed together with its supports or held down by additional fasteners.

12.7 AIR CONDITIONER

Components solely associated with a refrigerated air conditioning system may be disconnected or removed.

12.8 ACCESSORIES

The radio, aerial, speakers and speaker mounts may be removed. Fog/driving lights, which are separate from the main lighting system, may be removed, as may internal cockpit lights. Accessories, which do not increase performance (e.g. additional lamps, mirrors, etc.), may be added.

12.9 Removal of non-essential items

It is permitted to either retain or remove the following items:

- (i) Bumper inserts/ crash structures
- (ii) Headlight motors
- (iii) Plastic inner guard liners
- (iv) Air bags
- (v) Bonnet/boot springs and stands
- (vi) Door locks

13. SAFETY STRUCTURES

13.1 SAFETY CAGE/ROLL OVER PROTECTION STRUCTURES

Safety cage structures must comply with Schedule J (refer "General Requirements for Cars and Drivers") save that in closed cars issued with a log book prior to 1 January 2012 fitted with a safety cage complying with the prescriptions of Article 13.3 of Schedule J will be acceptable. Where moulded door trims interfere with anti-intrusion bars, they may be replaced with flat items provided the replacements are trimmed to match the original items.

13.2 SAFETY HARNESS

Where the vehicle is not registered for road use, the original driver's seat belt must be replaced by a safety harness, complying with Schedule I (refer "General Requirements for Cars and Drivers"), with at least four belts in contact with the driver in closed cars, or five belts in an open car.

14. FUEL

14.1 FUEL

Only fuel as defined by Motorsport Australia in Schedule G (refer "General Requirements for Cars and Drivers") may be used. Vehicles of a model that was built after 1 January 1986 must use only unleaded fuel.

NOTE: Leaded Fuel will not be permitted from 1 July 2019.

14.2 AIR

Only air may be mixed with the fuel as an oxidant.