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1. PREAMBLE

These Group G4 regulations detail the vehicle eligibility criteria for a type of 4WD vehicle permitted for use in Rally events in Australia.

A vehicle constructed to these regulations is to be considered as extensively modified for exclusive motor sport use. They must be registered or be the subject of a rally permit issued by the relevant transport authority. Constructors should pay special attention to any requirements of the relevant State registration authorities with regard to preservation of vehicle identification numbers. Unregistered Vehicle Permits will not be recognised for competition.

2. INTRODUCTION

- (a) These regulations must be read in conjunction with Motorsport Australia Manual, Technical Appendix Schedule A and the ~~N~~RSR VG.
- (b) Where an issue is not specifically addressed by these regulations, the Group 3C Production Rally Car (PRC) regulations apply. Where no freedom is provided, or the applicable regulations are silent, then no change or modification to the donor vehicle is permitted.
- (c) The right to introduce control/specified components is reserved. Definitions:
 - (i) Base vehicle – the model of vehicle into which components from a Donor vehicle are being installed.
 - (ii) Donor vehicle – the model of vehicle, from which components are removed for subsequent installation in the base vehicle. Any 4WD vehicle complying with Article 2 of these regulations may be used. The recognised donor vehicle must be specified on the Recognition Form.
 - (iii) Parts – the components sourced from the Donor vehicle to be installed in the base vehicle.
- (d) In order to detail its specifications a Motorsport Australia Recognition Document will be required and is the official certification made by Motorsport Australia that a G4 vehicle meets the requirements of the present regulations. An application for recognition must be lodged with Motorsport Australia by the constructor of the vehicle. Motorsport Australia must be supplied with a detailed plan of the vehicle to be built in compliance with the regulations for this category. Approval in principle must be obtained from Motorsport Australia before any production work is started and such approval in principle must be subject to the lodgement with and approval by Motorsport Australia of a Recognition Document. The fee payable to Motorsport Australia for the assessment of such an application is \$500.

3. ELIGIBILITY

To be eligible for Group G4, the ~~donor~~ base vehicle must have been in production in 2005 or later and be one of the following:

3.1 Option 1

- (a) fitted with two or more seats for the occupants;
- (b) open cars are not eligible;
- (c) a production car available through the normal commercial distribution network of the original vehicle manufacturer (or their authorised Australian distributor, as approved by Motorsport Australia);

- (d) certified for road use in Australia and listed on the Road Vehicle Certification System (RVCS) or Road Vehicle Standards (RVS) published by the Australian Government Department' (Dept.) of ~~Transport and Regional Services (DOTARS)~~.

NOTE: 1. Australian Government Department refers to the current department, by whatever name, that is assigned the responsibility for Transport or Transport related matters as relevant to Production Cars.

3.2 Option 2

- (a) Approved by Motorsport Australia, on application (application fee will apply), as a G4 vehicle and issued with the required Recognition Document.

NOTE: Left-hand drive versions of such cars may be used provided they are identical in all respects other than the reversal of the driving position.

4. GENERAL

4.1 Materials and Parts

Materials and Parts deemed free in these regulations must still be in conformity with of FIA Appendix J Article 252. "Free" means that the original part, as well as its function(s), may be removed or replaced with a new part, on condition that the new part has no additional function relative to the original part.

4.2 Ground clearance

The ground clearance of the vehicle is free.

4.3 General Modifications

Refer Article 4(b) of the PRC regulations.

5. ENGINE

5.1 Eligible engines and transmissions:

- (a) It is permitted to use a complete engine of 2000cc maximum swept volume and transmission drivetrain from one model of a FIA-Homologated 4WD supercharged vehicle. All components must comply with Article 5.2. All recognised components must be specified on the Recognition Document.
- (b) An alternative engine and/or transmission configuration may be considered on application. The fee payable to Motorsport Australia for the assessment of such an application is \$250. All recognised components must be specified on the Recognition Document.
- (c) An alternative supercharger (turbocharger only) and exhaust manifold mounting configuration may be considered on application. Each application must detail the comparable specifications to the original Donor vehicle supercharger. All recognised components must be specified on the Recognition Document. For each approved alternate supercharger, the following will apply:

The addition of 40kg to the minimum weight in accordance with Article 19. Weight.

5.2 Components

- (a) Except where a part is free under the PRC regulations, or an alternative engine and transmission has been approved under Article 5.1(b):
- (i) Only components from the selected model Donor vehicle must be used unless otherwise approved through Motorsport Australia Recognition (i.e. it is not permitted to use Parts from more than one homologated version of the Donor vehicle e.g. if the Donor vehicle engine is a Mitsubishi Lancer EVO X only Parts homologated for an EVO X are permitted to be used);
- (ii) If the original engine was fitted with balancing shafts, these may be removed together with their drives.

5.3 Engine specifications

Unless varied by these regulations Article 5 of the PRC regulations applies. An inlet restrictor compliant with the Article 5.3(b) of the PRC regulations must be fitted.

5.4 Transmission

Article 6 of the PRC regulations applies:

- (a) the Recognition Form must record all the transmission parts used for the conversion from two-wheel drive to four-wheel drive;
- (b) In order to be able to mount these transmission parts, it is permitted to modify the bodyshell in accordance with Diagram 1;

- (c) The rear axle must be mounted onto the sub frame as described in Article 11.

5.5 Engine mounting

- (a) The orientation of the engine of the base vehicle is free, with the orientation of the donor vehicle being applied. (i.e. a longitudinal orientation may be substituted for a transverse one and vice versa);
- (b) Each modification to the engine compartment must be limited to those necessary to enable installation of the recognised engine and transmission for that G4 Rally Car;
- (c) Each modification must not compromise the structural integrity of the vehicle. Each required modification must be detailed in the Recognition Document;
- (d) On the component side each engine and transmission mounting point location as originally fitted to the Donor vehicle must be retained. Each engine mounting bushing is free.
- (e) The replacement engine must be mounted in the same general location as the original (i.e. a base vehicle with a front mounted engine must only have a replacement engine mounted in the front, or for a Base vehicle with a rear mounted engine, it must only have a replacement engine mounted in the rear).
- (f) The inclination of the substitute engine must be the same as its original application in the Donor vehicle, plus or minus 25° to the vertical. This must be measured in relation to the centreline of the bore. The location of the engine must be detailed in the Recognition Document.

5.6 Cooling System

- (a) The radiator and its method of fixing is free provided the radiator is fitted in the original location. Radiator hoses are free. A radiator screen may be fitted.
- (b) The existing fan may be removed, or it may be disconnected. Additional fans may be added, for which the method of drive is free.
- (c) The thermostat is free.
- (d) The dimensions and material of the fan are free as are the number of fans.
- (e) The fitting of a water catch tank is allowed.
- (f) The radiator cap may be locked.

5.7 Supercharger Intercooler

- (a) A single supercharger intercooler may be fitted of a size not exceeding the surface area of the Donor Vehicle.
- (b) The supercharger intercooler shall be fitted within the area either next to or in front of the engine radiator.
- (c) Supercharger intercooler piping is free provided its only purpose is to channel air.
- (d) An external intercooler water spray system from the donor vehicle may be used, and its mounting points only locally modified to suit the base vehicle. Only water is permitted to be sprayed onto the intercooler.
- (e) The supercharger intercooler, its location and fitment shall be detailed in the Recognition Document.

5.8 Oil Sump

- (a) The oil sump shall be a wet type and meet the following requirements:
 - (i) the oil sump must be either made from steel sheet or aluminium. Its sole function must be that of containing oil;
 - (ii) the number of mounting points must not exceed the original;
 - (iii) for the sole purpose of fixing an oil deflector, it is permitted to create a maximum of four threaded holes (having a maximum diameter of M5 and maximum depth of 20mm) in the bottom of the cylinder block; and
 - (iv) the oil pick up may be modified only below the lower surface of the engine block.

6. ELECTRICAL EQUIPMENT

Article 14 of the Group 3C PRC regulations apply.

7. EXHAUST

7.1 Exhaust manifold

The exhaust manifold must be:

- (a) As originally fitted to the donor vehicle; or
- (b) Approved within the recognition document to be a replacement exhaust manifold which must be of steel, stainless steel or cast iron material. In this case it is permitted to relocate the exit position of the exhaust manifold to enable the relocation of a standard donor supercharger (turbocharger) as approved within the recognition document.

7.2 Exhaust System

- (a) For a naturally aspirated engine the exhaust system is free after the exit from the exhaust manifold.
- (b) For a turbocharged engine the exhaust system is free after the exit from the turbocharger exhaust turbine housing.
- (c) Each Exhaust system must also comply with the following:
 - (i) It may not project in any way beyond the coachwork (in plan);
 - (ii) The exhaust system must not be provisional;
 - (iii) Exhaust gases may only exit from the end of the system which must be within 100mm of the perimeter of the car and aft of a vertical plane passing through the centre of the wheelbase;
 - (iv) Parts of the chassis must not be used to evacuate exhaust gases;
 - (v) Adequate protection shall be provided to prevent heated exhaust pipes from causing burns;
 - (vi) It must comply with any specific civil requirements and permitted noise levels.

8. FUEL SYSTEM

- (a) Fuel tank, pumps and circuit:
 - (i) The fuel tank shall be the original series production item, or it can be replaced or supplemented with an FIA FT3 1999, FT3.5 or FT5 specification fuel tank or otherwise as approved through CAMS Recognition.
 - (ii) Each replacement or supplementary fuel tank shall be placed inside the luggage compartment or in the original location.
 - (iii) The construction of a collector tank/s with a capacity of less than one litre is free.
 - (iv) The fuel pump/s is free.
 - (v) A petrol filter with a maximum capacity of 0.5 litres may be added to the fuel inlet pipe.
 - (vi) Fuel lines may be replaced, the route of which is free. If a fuel line is replaced, it shall be of an aviation type and comply with NRSR – VG.
 - (vii) It is authorised to drill two holes (maximum diameter of 60mm or equivalent area) in the floor, the sole function of which will be to allow the passage of the lines necessary to feed/empty the fuel tank.
 - (viii) All fuel tank and fuel system components, save for fuel lines in accordance with (vi) above, shall be sealed from the cockpit by a fireproof and liquid-proof bulkhead or case. A filler hole shall not be located in a window panel.
 - (ix) Each fuel filler shall be equipped with a non-return valve homologated by the FIA. This valve, of the type “with one or two flaps”, must be installed in the filler neck on the tank side. The filler neck is defined as being the means used to connect the fuel filler hole of the vehicle to the fuel tank itself. The use of a dry brake fitting system for refuelling is permitted and highly recommended.
 - (x) Each fuel system vent shall be fitted with roll over valve of type approved by the FIA.
 - (xi) Provisions for the safe draining of any spilt fuel from any compartment must be included in the design of any fuel tank and fuel tank filler.
- (b) The total fuel carrying capacity of the vehicles fuel tank/s must not exceed 95 litres.

9. CLUTCH

Article 6.2 of the Group 3C PRC regulations apply.

10. GEARBOX/TRANSMISSION

- (a) Article 6 of the PRC regulations apply. In addition:
 - (i) the Recognition Form must record all the transmission parts used for the conversion from two-wheel drive to four-wheel drive;
 - (ii) In order to be able to mount these transmission parts, it is permitted to modify the bodyshell in accordance with Diagram 1, or otherwise as approved through Motorsport Australia Recognition.

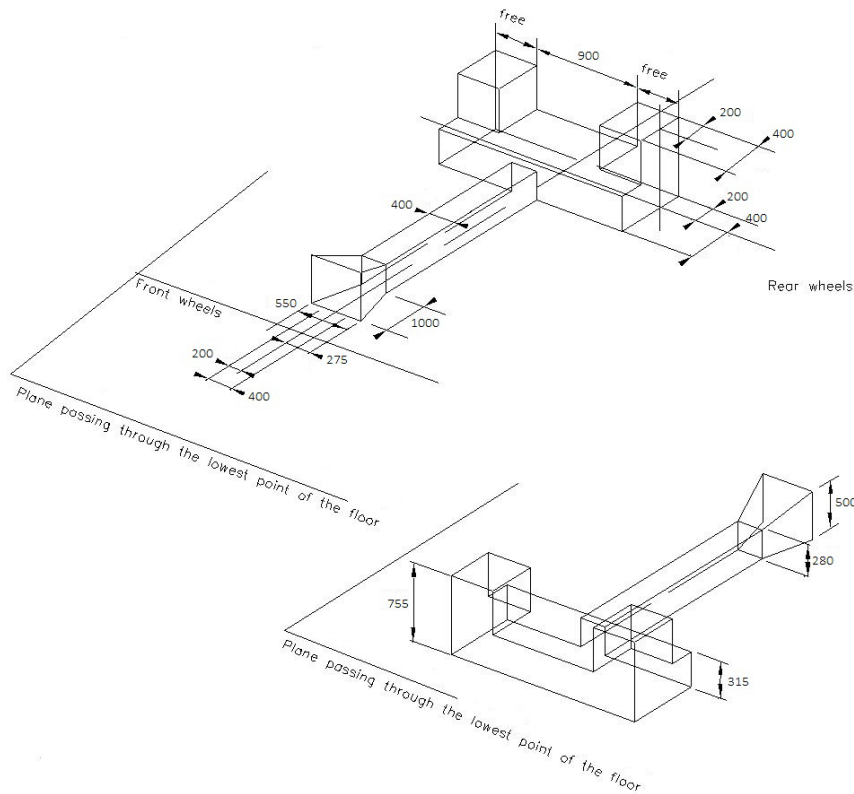
11. DRIVELINE

Articles 6.4 and 6.5 of the PRC regulations applies.

12. SUSPENSION

- (a) The wheel base must be $\pm 2.5\%$ of that of the base vehicle.
- (b) A MacPherson strut suspension system may be fitted to the front of the Base vehicle using components supplied by the manufacturer of the Donor vehicle and consistent with the homologated, for Group A/N only, or recognised components for the production car or interchangeable with those components (i.e. aftermarket components may be used). The Base vehicle upper suspension mounting point may be modified to accept the components from the Donor vehicle. Each modification to facilitate the fitting of the front suspension must be detailed on the Recognition Form.
- (c) The type of rear suspension must be one of the following:
 - (i) MacPherson strut;
 - (ii) trailing arm;
 - (iii) that of the recognised Base vehicle; or
 - (iv) that of the Donor vehicle.
- (d) Only one shock absorber is permitted per rear wheel.
- (e) It is permitted to modify the bodyshell within the area authorised by Diagram 1 or otherwise as approved through Motorsport Australia Recognition.
- (f) Each front and rear sub frame may be manufactured in compliance with Article 12.5 of the PRC regulations and the requirements of Article 12(g), (h) and (i) below.
- (g) Each dimension of each mounting point of each sub frame for the vehicle must match a production rear sub frame from either the Base vehicle, Donor vehicle or one of the following:
 - (i) Mitsubishi Lancer EVO (all models);
 - (ii) Subaru WRX (all models);
 - (iii) Toyota Celica GT4;
 - (iv) those originating from other vehicles which are, or have been, homologated by the FIA under Group N; and
 - (v) those approved by Motorsport Australia Recognition.
- (h) Where any sub frame is manufactured and fitted to the vehicle, it must be possible to check the dimensions by fitting the unmodified Donor or Base vehicle original factory sub frame to the vehicle.
- (i) Modifications necessary to fit each sub frame to the vehicle must be welded to the bodyshell. Specific details of the mounting must be recorded in the Recognition Form by drawings and/or photographs.
- (j) Anti-roll bars must be as homologated, for Group A/N only, or recognised components for either the donor or base vehicle or interchangeable with those components (i.e. aftermarket components may be used).

DIAGRAM 1



13. BRAKES

13.1 BRAKING SYSTEM AND CIRCUIT

Article 10 of the PRC regulations applies.

13.2 PEDAL BOX

The pedal box is free.

13.3 MASTER CYLINDER

The master cylinder is free.

13.4 MASTER VAC/SERVO-BRAKE

The master vac/servo-brake is free.

13.5 REGULATOR/FRONT TO REAR BIAS ADJUSTMENT

The regulator/front to rear bias adjustment is free.

13.6 HANDBRAKE

The handbrake is free save that it must be operated only by hand.

13.7 FRONT CALIPERS

The front calipers are free provided they have a maximum of four pistons per caliper.

13.8 FRONT DISCS

The front discs are free subject to the following:

- (a) are made from ferrous metal;
- (b) the maximum diameter of each disc is 330mm for asphalt and 305mm for gravel;
- (c) a device to protect the brake discs from flying stones is permitted.

13.9 REAR CALIPERS

The rear calipers are free provided they have a maximum of four pistons per caliper.

13.10 REAR DISCS

The rear discs are free subject to the following:

- (a) are made from ferrous metal;
- (b) the maximum diameter of each disc is 300mm;
- (c) a device to protect the brake discs from flying stones is permitted.

14. STEERING

14.1 STEERING, RODS AND COLUMN

The original steering type of either the donor or the base vehicle shall be retained (e.g. rack and pinion), however freedom is provided in relation to the following items:

- (a) Power steering system (modification, addition or deletion).
- (b) Steering ratios, which must be commercially available.
- (c) Steering arms, dampers, column and rack.
- (d) The steering rack and steering ratio. If is permitted to modify the bodyshell the minimum amount necessary for the passage of the steering column.
- (e) The steering column as well as its mounting systems, provided the steering column is fitted with a shock-absorbing/collapsing system.
- (f) Steering rods and joints and their connecting parts are free provided they are made from ferrous material.
- (g) The power steering fluid reservoir is free.
- (h) A powers steering fluid cooler may be fitted.

15. WHEELS AND TYRES

- (a) Each wheel must be made from cast aluminium or steel.
- (b) Wheel fixations by bolts may be freely changed to fixations by pins and nuts.
- (c) The use of a single metallic wheel spacer behind each wheel is permitted.
- (d) The use of any device for maintaining the full performance of the tyre with an internal pressure equal to or less than the atmospheric pressure is forbidden. The interior of the tyre (space between the rim and the internal part of the tyre) must be filled only with air.
- (e) Maximum diameter of the complete wheel including tyre is 650mm otherwise the diameter of the wheel rim is free.
- (f) The maximum width of the rim is 8.5" (216mm).
- (g) For gravel rallies, the minimum weight of each rim (wheel excluding tyre and valve) is 8.6kg.
- (h) For asphalt rallies, the minimum weight of each rim (wheel excluding tyre and valve) is 8.9kg.

16. BODY/COACHWORK

16.1 DOORS & SIDE WINDOWS

- (a) It is permitted to install energy absorbing safety foam, to protect against lateral collisions, in each door and for two door vehicles in the area of the bodywork immediately rearward behind the door aperture. Energy absorbing safety foam must be fitted to each front door of the vehicle. The installation of energy absorbing safety foam must comply with the following:
 - (i) In compliance with **NRSR VG**.
- (b) For this purpose, it is permitted to:
 - (i) Locally modify the interior part of the door or the aperture for the fitment of foam. This may include the removal of window mechanisms and other door hardware. The door opening mechanism, operated by the crew, may be modified.
 - (ii) Each side window may be replaced with a clear and optically transparent Polycarbonate material in the original shape of the original window and of a minimum thickness of 3.8mm.

An opening section, using a sliding section, may be incorporated in each replacement widow in each front door only.

- (iii) Each replacement window must be able to be removed without tools in an emergency situation.
- (iv) Each door or aperture fitted with foam shall have a trim panel fitted that consists of a minimum of six (6) ply carbon fibre or kevlar reinforced polymer.

16.2 SUNROOF/ROOF VENT

Article 13.15 of the PRC regulations apply.

16.3 WINDSCREEN and WINDOWS

Article 13.12 of the PRC regulations apply.

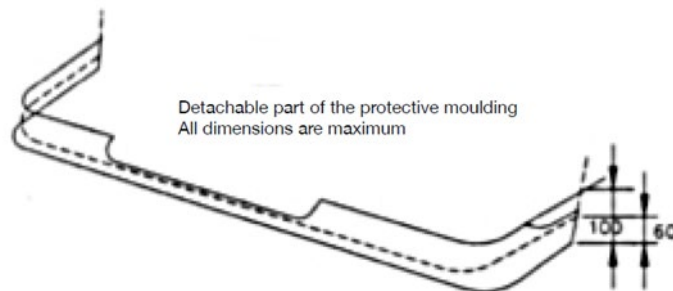
16.4 BODY KIT COMPONENTS:

- (a) Article 12.4 of the PRC regulations apply, or otherwise as approved through Motorsport Australia Recognition
- (b) A rear aerodynamic device complying with the AP4 regulations may be used, or otherwise approved through Motorsport Australia.

16.5 FRONT BUMPER:

The front bumper shall be that part of the base vehicle in its entirety. In addition, the front bumper may be modified as follows:

- (a) It may have additions made to mould, join or align with the permitted flares.
- (b) The series grille may be replaced with wire mesh.
- (c) Additional openings may be made in the bumper provided the total surface of openings be no more than 2500 cm².
- (d) The openings must not affect the structural integrity of the bumper.
- (e) The material of the bar shall be free.
- (f) The minimum weight of the front bumper is 4.5 kg (except if the original bumper is kept).
- (g) New fastenings may be created to enable ease of removal/replacement.
- (h) A lip spoiler in accordance with the following diagram may be added:



16.6 REAR BUMPER

The rear bumper shall be that part of the base vehicle in its entirety. In addition, the rear bumper may be modified as follows:

- (i) It may have additions made to mould, join or align with the permitted flares.
- (ii) The material of the rear bar shall be free.
- (iii) New fastenings may be created to enable ease of removal/replacement.
- (iv) The original cut-out or insert of the rear bumper for the exhaust may be enlarged; or a circular opening with a maximum diameter of 10cm or an equivalent section created.

16.7 GUARDS:

- (a) Front: The basic shape of the base vehicle front guards (upper section) must be retained. The following is permitted:

- (i) The guard may be widened in-line with the wider wheel-track of the car. This increase may be obtained by means of an extension or a new part may be created.
 - (ii) The maximum width between the outer extremities of the guards shall be 1820 mm (measured on the front axle centre-line).
 - (iii) The material shall be that of the series part and/or fiberglass.
 - (iv) No additional air intakes or outlets are not permitted.
 - (v) Additional aerodynamic elements are not permitted.
- (b) Rear: The basic shape of the base vehicle rear guards (upper section) must be retained, although the following is authorised:
- (i) The guard may be widened in-line with the wider wheel-track of the car. This increase may be obtained by means of an extension or a new part may be created.
 - (ii) The material shall be that of the series part and/or fibreglass.
- (c) For the purpose of wheel and tyre clearance, it is permitted to remove up to 75mm of original bodywork measured radially from the edge of the original wheel arch outwards. Any cavity exposed in a door or wheel arch through the removal of metal must be covered by the addition of a metal closing panel. Any body joint protrusions must be rendered safe. The operation of any door must not be affected.
- (d) Each guard must cover the whole of the complete wheel in radial projection whereby the upper part of the wheel/tyre assembly, located vertically over the wheel hub centre, must be covered by the bodywork when measured vertically.

16.8 OPENING IN THE BONNET

- (a) It is permitted to add a single cut out opening, or multiple cut out openings, with a maximum surface of 1000 cm² in the bonnet.
- (b) Each cut-out must be fitted with a fine mesh or it is permitted to add a plastic part serving as a trim or a grill.
- (c) The maximum height of a trim or grill in relation to the bonnet is 15 mm. The maximum opening of 1000 cm² will be calculated without taking this added part into account.
- (d) Each bonnet opening must be detailed on the Motorsport Australia Recognition Form.

16.9 RADIATOR SUPPORT

- (a) The upper front radiator support may be cut or modified between the headlamps for the sole purpose of fitting a radiator and/or the intercooler.
- (b) This radiator support may be replaced with a different support in a metallic material between the headlights only.
- (c) The lower radiator support panel may be modified only in the area of the radiator and/or intercooler mounting points to achieve effective fitment of these components only.

16.10 OTHER ALTERATIONS

Alterations to the floor pan, front bulkhead (firewall) and inner wheel housing area may be made, but only to the extent required to achieve effective fitment of the recognised engine, transmission and suspension components. Alternatively, the floor pan and bulkhead may be replaced by those fitted to the Donor vehicle. The extent of any changes must be included in the application for a Recognition Form submitted to Motorsport Australia.

17. SAFETY CAGE

The safety cage structure must be in accordance with Motorsport Australia Manual, Technical Appendix Schedule J. Door bars, or side intrusion, must incorporate a minimum of two elements. A single door bar is not permitted.

18. INTERIOR

18.1 SEATS

- (a) The seats provided for the occupants shall be homologated by the FIA to the 8855-1999, 8862-2009 or 8855-2021 standard.

- (b) In the case of seats to the 8862-2009 or 8855-2021 standard, homologated seat mounts must be used.
- (c) For seats to the 8855-1999 standard, the mountings shall comply with Motorsport Australia Manual, Technical Appendix Schedule C or FIA Appendix J, Article 253, unless original.

18.2 DASHBOARD

- (a) The material of the dashboard is free, but the general shape and the appearance of the base vehicle model must remain unchanged.
- (b) The dashboard hump(s) may be modified. The height of the dashboard humps may be reduced by a maximum of 50mm over a maximum width of 400mm. The resulting opening must be closed.
- (c) The minimum weight of the bare dashboard is 4kg.
- (d) The anchorage points may be modified for the sole purpose of installing the safety cage.
- (e) The trimmings below the dashboard, and which are not part of it, may be removed.
- (f) It is permitted to remove the centre console so long as it does not hold any heating controls or instruments (as shown in the following drawing).

18.3 AIR CONDITIONING SYSTEM

Article 13.6 of the PRC regulations apply.

18.4 SAFETY HARNESS

A Type A harness as detailed in Motorsport Australia Manual, Technical Appendix Schedule I shall be fitted for each crew member. Two belt/webbing cutters must be carried on board at all times. They must be easily accessible by the driver and co-driver when seated with their harnesses fastened.

18.5 FIRE EXTINGUISHER:

- (a) Refer to Motorsport Australia Manual, Technical Appendix Schedule H.
- (b) In addition to the specified hand held fire extinguisher/s, a plumbed in system homologated for Rally by the FIA is mandatory. Refer Technical List no. 16: "Extinguisher systems homologated by the FIA" and Technical List No. 52 "Plumbed-in fire extinguisher systems according to FIA standard 8865-2015.
- (c) The driver must be able to trigger the plumbed in extinguisher/s manually when seated normally with the safety belts fastened and the steering wheel in place.
- (d) Furthermore, a means of triggering the plumbed in extinguisher/s from the outside must be fitted. It must be marked with a letter "E" in red inside a white circle of at least 10cm diameter with a red edge.

19. WEIGHT

- (a) The minimum weight of each G4 car is 1230kg; or
- (b) In accordance with Article 5.1(c) the minimum weight of a G4 car fitted with an approved alternate supercharger is 1270kg.
- (c) The following minimum weight conditions apply:
 - (i) The minimum weight is the real weight of the car when measured at any time during an event, without driver nor co-driver nor their equipment, including the crew's helmets. Headphones external to the crew's helmets may be left in the car during weighing;
 - (ii) The weight of the car may be checked with the crew on board (driver + co-driver+ their full equipment). In this case the minimum weight shall be as specified above, plus 160 kg;
 - (iii) The use of ballast is permitted subject to Motorsport Australia requirements (Refer Motorsport Australia Manual, Technical Appendix Definitions Technical and Schedule A).