

Modified Article	Date of Application	Date of Publication
4.2(f)	01/01/2026	01/01/2026
11.2(b)	01/01/2026	01/01/2026
16.4	01/01/2026	01/01/2026

**A capitalised and italicised word in this document is defined in the FIA International Sporting Code (Code) or the National Competition Rules (NCR), including their Appendices.**

**Any HEADING is for reference only and has no regulatory effect.**

**National Association:** Improved Production Racing Association of Australia (IPRA)

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## **PREAMBLE**

Improved Production has been adopted by *Motorsport Australia* as a sporting-level touring car category. *Motorsport Australia* is ultimately responsible for the approval of the regulations or changes thereto, and responsible for publishing the regulations via the *Motorsport Australia Manual* and associated Bulletins as necessary. The Improved Production Racing Association of Australia (IPRA) is recognised by *Motorsport Australia* as the sole entity representing competitors in this category. The IPRA is the category representative group which is made up of a representative from each of the *Motorsport Australia* and IPRA-affiliated Improved Production state associations.

The IPRA is recognised by *Motorsport Australia* as the sole entity which may make recommendations regarding maintenance of and/or proposed changes to technical regulations for this category and/or sporting regulations for the conduct of competition activity for such *Automobiles*. *Motorsport Australia* will consult with the IPRA exclusively regarding the maintenance and/or proposed changes to the technical and sporting regulations. The IPRA will be responsible for consultation processes within its membership and with other interested parties as may be appropriate from time to time.

Each *Automobile* shall conform to the *Motorsport Australia Manual* – Technical Appendix and these regulations.

## **1. DEFINITIONS**

### **1.1 IMPROVED PRODUCTION CAR**

- (a) A competition *Automobile* derived from a registered production *Automobile*, with limited modifications to improve performance and reliability in race or speed events on circuits or other licensed tracks. To be eligible, the models of *Automobiles* must be or have been mass-produced touring cars, the model of which has been:

- (i) Homologated by the *FIA* in Group A. Sporting Evolutions (ES) and Variant Options (VO) shown in the *FIA* homologation papers shall not be eligible unless provided for in 1.1(a)(iii) or 1.1(a)(iv) below; or
- (ii) Commercially available to the general public in Australia as new cars through a manufacturer's dealer network. At least 200 such models must have been registered for road use in Australia; or
- (iii) Otherwise recognised by *Motorsport Australia*, at its sole discretion, for Group 3J. In general, such cars will be available on a large scale, possibly as an imported used car. The interior dimensions shall comply with the homologation requirements of *FIA* Group A. Prospective competitors desiring to use such cars must provide information regarding the number registered for road use in Australia, and a basic recognition document containing all such technical details, photographs and other specifications as may be required by *Motorsport Australia*. The AMRC will be the final arbiter of acceptance or otherwise of any model.
- (iv) An *Automobile* complying with current 3E regulations is permitted to race in 3J subject to the following conditions – the automobile:
  - A. is not fitted with a supercharging device; and
  - B. has its entire engine fitted in the front 50% of the *Automobile*; and
  - C. was sold with at least four passenger seating positions; and
  - D. has a permanently fixed roof (Soft or removable hard top convertibles are not permitted); and
  - E. has a published *Motorsport Australia* 3E recognition document; and
  - F. must use the current IPRA control tyre.

#### LIST OF OTHER APPROVED MODELS

<b>Mitsubishi Mirage Cyborg</b>	
<b>Nissan Silvia S 13</b>	(turbo and naturally aspirated)
<b>Nissan 200SX S14</b>	
<b>Nissan 200SX S15</b>	
<b>Nissan Skyline R32</b>	(GTS, GTS4, GTS-T, all either 2-door or 4-door body)
<b>Nissan Skyline R33</b>	(GTR, 2-door)
<b>Nissan Skyline R33</b>	(GTS, GTS4, GTS-T, all either 2-door or 4-door body)
<b>Nissan Skyline R34</b>	(GTS, GTS4, GTS-T, all either 2-door or 4-door body)
<b>Nissan Skyline R34</b>	(GTR, 2-door)
<b>Toyota Soarer Z30 / Lexus SC300 SC400</b>	JZZ30, JZZ31, UZZ30, UZZ31, UZZ32
<b>Ford Mustang FN/FM</b>	

- (b) Group 3J (IMPROVED PRODUCTION): A car of a model manufactured after 1 January 1986 and which was first issued with a log book after January 2004 shall comply with Article 1 to 16.4 and be recognised as such. A competitor with an *Automobile* manufactured after 1 January 1986 but which is subject of a log book first issued prior to 2004 as a Club/Improved Production *Automobile* may choose to comply with Articles 1 to 16.4 and compete as a Group 3J (IMPROVED PRODUCTION).
- (c) Group 3J (CLASSIC): A car of a model manufactured prior to 1 January 1986 and shall comply with Articles 1 to 17.5.

## 1.2 COACHWORK

All entirely sprung parts of the *Automobile* in contact with the external air stream, except the parts definitely associated with the mechanical functions of the engine, transmission and running gear.

## 1.3 WHEEL

This means the complete wheel including flange, rim and tyre and any additional fittings.

## 1.4 AUTOMOBILE MAKE AND MODEL

*Automobiles* manufactured by the same company but under a different brand name are considered to be the same make, e.g. Nissan/Datsun, Mazda/Eunos and Toyota/Lexus etc. Any component fitted to a production *Automobile* will be regarded as belonging to that manufacturer of that *Automobile* irrespective of the actual source of manufacture. Manufacturers are not considered to be the same solely by virtue of having a common parent or holding company. Model refers to a member of the same family of *Automobile* as produced by the manufacturer.

## 1.5 ENGINE CAPACITY

The Swept Volume shall be the volume swept by the movement of the pistons/rotors in one revolution of the crankshaft. The Effective Capacity shall be the product of the Swept Volume and an equivalence factor dependent on the engine configuration. This volume shall be expressed in cubic centimetres. The equivalence factors shall be:

Piston engine – normally aspirated	1.00
Piston engine – supercharged	1.70
Rotary engine – normally aspirated	1.80
Rotary engine – supercharged	3.06
Piston diesel – supercharged	1.50

## 1.6 TRACTION CONTROL

Traction and/or Stability control is defined as any form of program, device, system or mechanism for the purpose or effect of preventing or limiting loss of traction. The direct control of the throttle position or brakes as effected by the driver does not fall within this definition. Traction control limitations do not apply to limited slip or locking differentials of any kind.

## 1.7 AUTOMATIC TRANSMISSION

Automatic transmissions are defined as being transmissions that use a fluid coupling instead of a friction plate clutch system.

## 1.8 ELASTOMERIC BUSHINGS

Suspension components utilising an elastomer (e.g. rubber, polyurethane) 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 integral with the arm or other secondary component, only the elastomer material shall be regarded as the bushing for replacement purposes.

## 1.9 ROTARY ENGINE

Engines with rotary (rather than reciprocating) motion of the compressing medium (Wankel-type). A rotary engine is defined as the rotor housings, intermediate and end plates.

## 1.10 PERIPHERAL PORT

A port on a Rotary Engine allowing the passage of gasses through the periphery of the rotor housing. Any bridged induction port in the end or intermediate plates of a rotary engine that is extended radially beyond the original outer edge of the inner water seal is, for the purposes of these regulations, considered to be a peripheral port.

## 1.11 DECORATIVE STRIPS

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 *Automobile* manufacturer and/or model are considered to be within this definition.

## 1.12 TELEMETRY

The transmission of data from a moving *Automobile*. A timing transponder required by regulation shall not be regarded as telemetry.

### 1.13 MINOR RESHAPING

Reshaping of existing material. This excludes the addition, replacement or removal of material and must not result in a loss of integrity of the panel.

### 1.14 FREE

A component, deemed to be free under these regulations may, where fitted to the *Automobile* 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 body-work 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 3.18. For the purpose of this article, a component shall be deemed to include all other components with which it is integral, 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.

### 1.15 HATCHBACK

Any *Automobile* on which the rear window is attached to a rear facing door or hatch.

### 1.16 MECHANICALLY IDENTICAL COMPONENT

- (a) A component which performs exclusively the original function/s in the same manner as foreseen by the manufacturer and which permits the attachment of any secondary components in the original manner and without modification of that component.
- (b) The following list details the components that are permitted to be replaced with a Mechanically Identical Component in which case supply of such a component is not restricted:

Decorative trim, including grill inserts
Electric motors for accessory components
Window opening mechanisms
Windscreen wiper arms and motor/s
Tail lamp assemblies
Indicator lamp assemblies

- (c) The following list details the components that are permitted to be replaced with a Mechanically Identical Component which must be of the same material as the original (i.e. steel for steel, glass for glass) in which case supply of such a component is not restricted:

Window glazing
Body panels

### 1.17 Commercially available product

A commercially available product is one which is or was produced in quantities greater than 100 and is sold new to be owned outright to any person without ongoing charges for its use (i.e., not rented or leased). The product must currently be available or have been available and in stock as the complete product. The product must be or have been stocked by a supplier and be able to be purchased outright by any person.

## 2. REGULATIONS

### 2.1 ROLE OF *MOTORSPORT AUSTRALIA*

The technical regulations for Group 3J Improved Production Cars are issued by *Motorsport Australia* and must be read in conjunction with the relevant Schedules of the Technical Appendix in the *Motorsport Australia Manual*.

### 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. Rule changes are affected by engaging with club members, as per the individual Improved Production Racing Association of Australia Clubs constitutions, and a two-thirds majority of the Improved Production Racing Association of Australia (IPRAA) Executive Committee in accordance with the IPRAA constitution is required to effect a change. *Motorsport Australia* reserve the right to alter regulations at its discretion.

### 2.3 PERMANENT COMPLIANCE WITH REGULATIONS

Automobiles must comply with these regulations in their entirety at all times during an event, save through any damage or malfunction sustained in competition.

### 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 LIMITATIONS TO MODIFICATIONS

The entire *Automobile* must remain unmodified except for specific freedoms allowed in these regulations and modifications necessary to comply with the Technical Appendix.

## 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 safety cage structure as described in Article 14.1, and a strut tower brace as described in article 9.7.

### 3.2 TRANSMISSION TUNNEL

Minor reshaping of the body is permitted to enable fitment of replacement gearboxes and clutch assemblies.

### 3.3 GEARSHIFT HOLE

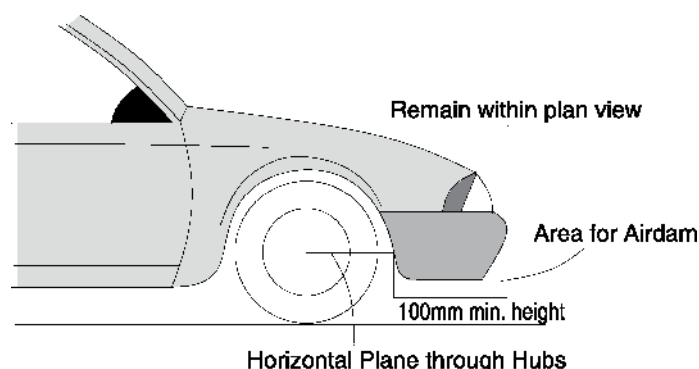
It is permissible to cut or enlarge a hole in the floor, of the minimum necessary dimensions, for the gearshift and associated mechanism. At all times, there must be some form of covering around the gearshift to prevent the ingress of material into the cockpit.

### 3.4 WHEEL and TYRE CLEARANCE

For the purpose of wheel and tyre clearance, provided the external appearance of the bodywork around the wheel arch is unchanged, minor reshaping of impinging body work is permitted. It is permitted to remove plastic stone shields from within the wheel arch.

### 3.5 FRONT SPOILERS/AIR DAMS

It is permitted to fit an airdam to the front of an *Automobile*, subject to the following restrictions (see diagram 1):



**DIAGRAM 1**

- (i) It is completely contained within the vertical projection of the original *Automobile*, including permitted flares;
- (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; and

- (iv) Any undertray fitted to the airdam and located further than 50mm from the extremity of the airdam shall be flat, and parallel to the *Automobile* sills and shall be regarded as part of the front airdam.

### 3.6 REAR WING

A rear wing may be fitted, or be replaced by a wing, complying with the requirements of this article. A rear wing may be removed.

- (a) Any longitudinal cross section of the wing, including mounting brackets and any end plates, must be contained within a vertical square 200mm long by 200mm high at any point on its length. The maximum difference in vertical height of the wing from its lowest point to its highest, including mounts and any end plates, is 200mm. The wing assembly must be located completely within the outline of the *Automobile* when viewed from above (plan view). Refer diagrams 4, 5 and 6. The wing assembly must comply with the following requirements:
  - (i) It must comply with Article 3.9;
  - (ii) The wing must consist of a single rigid element;
  - (iii) Any other rear wing or deck spoiler must be removed;
  - (iv) It must be fixed in position while the *Automobile* is in motion;
  - (v) The wing angle may be adjustable, provided adjustment is possible only via the use of hand tools from outside the cockpit;
  - (vi) Any change to the wing angle must only occur whilst the *Automobile* is stationary;
  - (vii) The method of attachment of the wing assembly is free; and
  - (viii) Except for a hatchback, the wing must be attached rearwards of the rear window.
- (b) Hatchback *Automobile*

For a hatchback *Automobile*, the wing must be attached to any part of the hatch. The hatch is defined as the part of the body/coachwork (or door) positioned at the rear of the *Automobile* which is hinged at the top and which lifts upward to provide access to the luggage and/or passenger compartment. The wing assembly must be no higher than the highest part of the roof on a horizontal plane and no wider than the widest part of the hatch assembly. Refer diagram 7.

### 3.7 SIDE SKIRTS

It is permitted to fit side skirts. Side skirts must not project more than 10mm forward of the rear edge of the front wheel arch, or 10mm rearward of the front edge of the rear wheel arch. The side skirts may not extend more than 125mm from the nearest original coachwork.

### 3.8 FASCIA

- (a) It is permitted to replace each front and rear bumper bar fascia in accordance with the following:
  - (i) Where the original bumper fascia being replaced is constructed of metallic or alloy material, the replacement item must be identical in both dimensions, shape and design of the original.
  - (ii) Where the original bumper fascia is constructed of non-metallic material, each replacement item must be identical to the original when viewed from above and be completely contained within the perimeter of the original *Automobile*.
  - (iii) Each replacement bumper fascia must not expose any bodywork or components that are not exposed by the original bumper fascia when fitted to the *Automobile*.
  - (iv) Any undertray incorporated into the replacement front fascia must comply with the requirements of articles 3.5(ii) to 3.5(iv) inclusive.
  - (v) The material of each replacement bumper bar fascia is free. Each mounting bracket and reinforcement not integral with the original bumper bar fascia must be retained.
- (b) It is permitted to add a mechanism for the quick release of the front bumper fascia. Such mechanisms must not project more than 10mm from the surrounding coachwork and must serve no other purpose.

### 3.9 AERODYNAMIC AIDS

Any specific part of the *Automobile* influencing its aerodynamic performance fitted, as specified in 3.5 to 3.8 and 17.2 to 17.5:

- (i) may not be used for any additional or alternative functions, e.g., for mounting an oil radiator;
- (ii) must be rigidly secured to the entirely sprung part of the *Automobile* (rigidly secured means not having any degree of freedom); and
- (iii) must remain immobile in relation to the sprung part of the *Automobile*.

### **3.10 AUTOMOBILE 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 or rear rotor end plate.

### **3.11 REGISTRATION PLATES**

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

### **3.12 SOUND DEADENER**

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

### **3.13 WINDSCREEN, WINDOWS AND MIRRORS**

- (a) The windscreen must be of laminated glass and may incorporate defrosting equipment.
- (b) External rear view mirrors may be replaced or deleted, provided that Schedule C (refer *Motorsport Australia Manual* – Technical Appendix) is respected at all times.
- (c) Each other window, and fixing, must be retained save that it may be replaced with a Mechanically Identical Component.
- (d) Where the door glass is supported by a frame It is permitted to fit an insert of a clear polycarbonate material in part of the glazed area of any door. The polycarbonate material must incorporate ventilation ducts. The original window glass must be retained and must secure the polycarbonate material insert.
- (e) On an *Automobile* with two front doors only it is permitted, in addition to Article 3(d) above, to replace a non-winding rear quarter glazed area(s) with a clear polycarbonate material. The polycarbonate material must incorporate ventilation ducts.
- (f) On an *Automobile* with a sunroof, it is permitted to replace the glazed area of the sunroof with an alternate polycarbonate or composite material or metallic rigid sheet. It is permitted to remove the sunroof mechanism; in which case the sunroof must be fixed in place.
- (g) The minimum thickness of polycarbonate or composite material is 3.8mm in all cases. The minimum thickness of a metallic rigid material to replace a sunroof is no thinner than the original roof material.

### **3.14 FUEL FILLER APERTURE**

It is permissible to make a hole in the bodywork of minimum necessary dimensions for access to inspection plates or fuel fillers in replacement fuel tanks when fitted subject to article 5.2. Under no circumstance may the access hole exceed 300mm in any dimension.

### **3.15 BONNET & BOOT CATCHES**

The original bonnet & boot fasteners and release mechanisms may be removed.

### **3.16 WINDOW REGULATORS**

Where an *Automobile* 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 *Automobile*. Electric door lock actuators must be removed or rendered inoperative.

### **3.17 GENERAL**

Holes may be drilled for fasteners, e.g. bolts, screws, rivets etc. Holes of the minimum necessary dimension are permitted to be made for the passage of wiring and fuel, brake, oil and intercooler lines/hoses. Nuts, bolts & fasteners are free.

### **3.18 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.



### 3.19 BRACKETS

Unused brackets/supports attached to the chassis/bodywork can be removed, unless they are supports for mechanical/suspension components that are not permitted to be moved or removed.

### 3.20 FLOORPAN

- (a) It is permitted to modify the floorpan in the immediate area of the driver's seat, to permit the fitment of a replacement seat. No part of the modified bodywork may extend any lower than the surrounding bodywork.
- (b) To facilitate the fitment of a pedal box minor reshaping, as described in Article 1.13, and reinforcement of the original floor pan in the area of the drivers footwell cavity is permitted, provided such reshaping or reinforcement serves no other function.

### 3.21 DOOR ANTI-INTRUSION BARS

The side anti-intrusion bars may be removed from doors subject to the safety cage structure providing lateral protection in the same general area for any occupant.

### 3.22 JACKING POINTS

It is permitted to strengthen the jacking points on the bodysell and /or add new jacking points provided that each jacking point does not exceed an equivalent surface area of more than 150mm x 150mm. The use of an air jack system is free provided no compressed gas is carried aboard.

## 4. ENGINE

### 4.1 GENERAL

Subject to the limitations contained in 4.2 and 4.3 below, the engine and components directly associated with its function are free. The crankshaft centreline as viewed from above must be parallel to that of the original engine.

### 4.2 BLOCK

- (a) The block must have the same number of cylinders/rotors and the same configuration as was standard or available as a manufacturer's option for that particular model (e.g. in line, horizontally opposed).
- (b) The block must be from the same manufacturer (e.g. Ford, GMH, and Nissan) as the original *Automobile*.
- (c) The cylinder block must either be:
  - (i) derived from an eligible *Automobile* as detailed in Article 1.1; or
  - (ii) derived from the same family of engines as an eligible *Automobile* using identical internal dimensions (with differences only in transmission mounting pattern, minor external casting differences etc.). The block type must be clearly identifiable, i.e. Nissan SR20DE, SR20DET, Holden Family II, Toyota 4AG series etc.
- (d) The block must be identifiable as being from a mass-produced *Automobile*. It must not have been exclusively developed for sporting evolution models, produced for homologation purposes in small numbers for competition use only or be an aftermarket replacement block, unless eligible in accordance with 4.2(e). *Motorsport Australia* will be the final arbiter in determining the eligibility of a block.
- (e) A road car replacement block, supplied by the same manufacturer, is permitted if approved by *Motorsport Australia* and listed in the table below. To be listed as an approved replacement block, the replacement block may not have any changes that could offer increased performance over the mass-produced engine block.

Mass produced engine block	Approved replacement block
Chevrolet Small Block 350	Chevrolet Performance part# 10105123
Chevrolet Small Block 350	Chevrolet Performance part# 88962516
Chevrolet Small Block 350	Chevrolet Performance part# 10066034

- (f) A vehicle of the Make and Model listed in the table below is also permitted to use the engine block as shown in this table. When the engine block listed in this table is being used, the entrant must be able to prove compliance with the listed Engine Performance Restriction any time requested by a



scrutineer or an IPRA Eligibility Officer. When an Engine RPM limit is listed, this limit only applies when the engine is creating power.

Vehicle Make and Model	Approved replacement block	Engine Performance restriction
Ford Falcon XE (all models)	Ford Part# M-6010-BOSS* (ALL iron variants)	Engine RPM limit of 6750
Ford Falcon EB (all models)	Ford Part# M-6010-BOSS* (ALL iron variants)	Engine RPM limit of 6750
Ford Falcon EL (all models)	Ford Part# M-6010-G351 (351 SVO – ALL iron variants)	Engine RPM limit of 6750

- (g) *Motorsport Australia* reserves the right to add any engine block at its discretion.

#### 4.3 ROTARY ENGINES

A reciprocating engine may be interchanged with a twin rotor rotary engine from the same manufacturer in the following *Automobiles*: Mazda 1200 coupe, Capella, 808, 929 (pre-1978), 121 (RWD).

- (a) A rotary engine may utilise peripheral porting but only in the following installations:

1200 Coupe / R100	10A only
Capella / RX-2	12A only
808 / RX-3	10A or 12A
929 (pre-1978) / RX-4	12A or 13B
121 (RWD) / RX-5	13B only
RX-7 (series 1,2 and 3)	12A only
RX-8	13B only

- (b) The rotor housings, intermediate and end plates shall be identifiable as mass produced Mazda items. Only engines identified as 10A, 12A or 13B are permitted. Such engines must not be exclusively from evolution/racing models.

#### 4.4 ENGINE MOUNTS

Engine mounts are free.

- (a) The engine mounting points on the bodyshell may be removed, modified or added to facilitate engine fitment. There must be no other alterations made to the body to fit a replacement engine except for minor reshaping of panels, other than the bonnet, for the fitment of engine mounted ancillaries and exhaust.
- (b) Engine mounting brackets bolted or welded to the Cross member or Sub frame may be removed, modified or added to facilitate the installation of a replacement engine. No other modifications to the Cross member or Sub frame may be made in order to provide clearance for the replacement engine.
- (c) It is permissible to reverse the orientation of the engine Cross member or Sub frame provided no alteration to the bodywork or Cross member or Sub frame is necessary.
- (d) Where a replacement engine from another eligible model is fitted, the Cross member or Sub frame from the block's donor *Automobile* may be used provided that it is a direct bolt in replacement, and no modifications to the bodywork or replacement Cross Member are required.

#### 4.5 SUPERCHARGING

A supercharger is permitted to be fitted. Where a supercharger is fitted the following conditions are applicable:

- (i) A restricting orifice must be fitted to the inlet tract/s 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.
- (ii) The maximum diameter of the restricting orifice/s must be complied with at all temperatures.
- (iii) For *Automobiles* utilising a turbine type compressor, the restrictor must be fitted as per Drawing 1 – Restrictor Fitment below, save that the maximum internal diameter of the air intake into the compressor is to comply with the Restrictor for *Automobile* Weight Table below.

- (iv) For *Automobiles* utilising other types of superchargers, 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, save that the maximum internal diameter of the air intake into the moving compressing medium is to comply with the Restrictor for *Automobile* Weight Table below. Multiple supercharger installations are only permitted when fitted as standard to the model concerned whereupon the original number and type of supercharging device shall be retained.
- (v) where an eligible *Automobile* is recognised with a supercharging system, it is permitted to reduce the number of superchargers.
- (vi) Supercharger pressure and pressure control mechanism is free. Associated components must comply with related regulations (i.e. turbocharger external wastegate with Article 4.7).

### RESTRICTOR FOR AUTOMOBILE WEIGHT TABLE

Applicable for each *Automobile* regardless of driven wheel type (i.e. 2WD, RWD, 4WD)

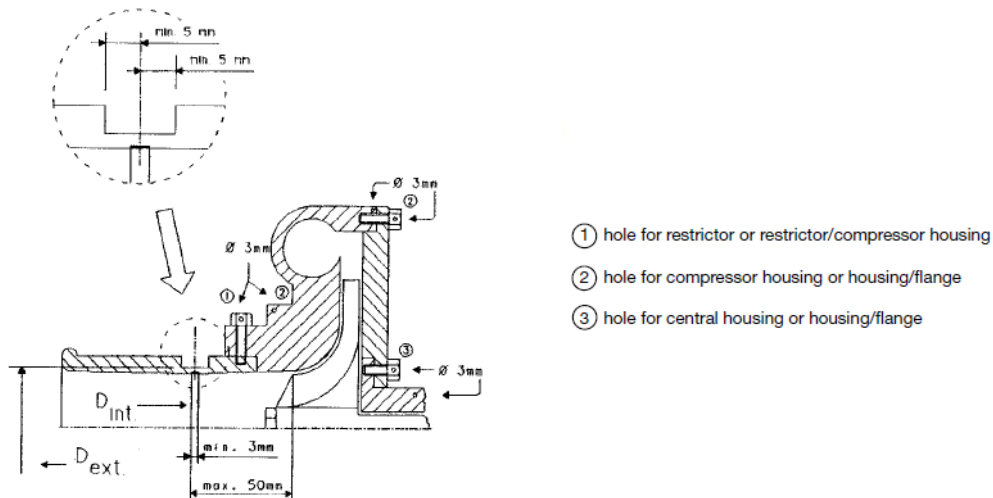
#### DRAWING

Single Supercharging Device	
Maximum restrictor internal diameter (mm)	Automobile Racing Weight* (kg)
36	up to 1225
37	1226 to 1325
38	1326 to 1425
39	1426 and over.
Multiple Supercharging Device – fitted to each device	
Maximum restrictor internal diameter (mm)	Automobile Racing Weight* (kg)
27	up to 1450
28	1451 and over

**NOTE:** \* - refer to *Motorsport Australia Manual*, Definitions - Technical

1 –

#### RESTRICTOR FITMENT



#### Other possibilities



## 4.6 TELEMETRY

The use of telemetry is forbidden.

#### **4.7 EXHAUST**

The complete exhaust system is free downstream of the exhaust port (save for an automobile which is supercharged by a turbocharger compliant with 4.5(a) where the exhaust is free from the exit of the turbocharger) provided it complies with Schedule B (refer *Motorsport Australia Manual* – Technical Appendix). 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.

### **5. PIPING AND FUEL TANKS**

#### **5.1 FUEL TANKS**

Each fuel tank shall comply with *Motorsport Australia Manual* – Technical Appendix, Schedule B and Schedule N. It is permitted to re-locate the fuel tank. No additional modifications are permitted to facilitate the fitment of a replacement tank other than the drilling of holes of the minimum necessary dimensions for mounting purposes, the addition of brackets and for the passage of fuel lines.

#### **5.2 TANK FILLERS**

The position of the tank filler is free, subject to Article 3.14. Dry break fittings are permitted. 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 *Automobile*. If the filler hole is situated inside the *Automobile*, it must be separated from the cockpit by a liquid tight bulkhead. Where retained, the standard filler orifice may be modified to accept a replacement cap of free design. 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/FILTERS**

Fuel pumps, fittings, fuel lines and filters are free. Where the fuel lines pass through the cockpit, there must be no connections within the cockpit save at the front and rear bulkheads or the vehicle floor.

### **6. COOLING/OIL SYSTEM**

#### **6.1 RADIATOR**

The radiator is free providing that the only body modification required for fitment is the drilling of holes for mounting purposes.

#### **6.2 RADIATOR COWL/SHROUD**

Radiator cowls/shrouds for the purpose of sealing a fan may be removed. It is permitted to add additional shrouds or ducting.

#### **6.3 ENGINE COOLING FANS**

Engine cooling fans are free.

#### **6.4 OIL COOLERS**

Oil coolers are free subject to Regulation 3.9.

#### **6.5 INLET CHARGE AIR COOLING**

Devices for the cooling of the inlet air in Supercharged systems in accordance with Article 4.5(b) are permitted.

### **7. STARTING**

#### **7.1 STARTER**

A starter must be fitted and be able to be controlled by the driver when seated normally. The starting system must be capable of starting the engine at all times.

#### **7.2 STARTING THE ENGINE**

A supplementary battery temporarily connected to the *Automobile* may be used while starting the engine in the pits and on the dummy grid.

### **8. TRANSMISSION TO THE WHEELS**

#### **8.1 GEAR SELECTION**

For all *Automobiles* with other than automatic transmissions, all gears must be selected by the driver exclusively via a mechanical linkage.

## 8.2 GEARBOX/TRANSAXLE

- (a) The gearbox or transaxle may be replaced by one of free design incorporating no more than six selectable forward gears, subject to 8.1 above.
- (b) It must incorporate an operable reverse gear and remain in the same general location as the original.
- (c) The gearbox Cross member or Sub frame and mounting points are free.
- (d) Any additional lubricant cooling device, including a fan is permitted. The circulating pump, radiator, and air intake may not be located in the cockpit.
- (e) Drive must be taken only to those wheels as envisaged by the manufacturer.
- (f) If the model of *Automobile* was manufactured with a Direct-shift Gearbox (DSG) or Dual-clutch Transmission (DCT) type gearbox it may be retained with the following conditions:
  - (i) Each DSG/DCT gearbox must retain and use the manufacturer supplied and standard:
    - A. Gear shifting and selector components; and
    - B. Gear shifting control mechanism including gearbox control unit and wiring.
  - (ii) It is permitted to replace clutch assemblies for a DSG/DCT gearbox, whereby each replacement shall be free.
  - (iii) Each transaxle type DSG/DCT gearbox may replace the final drive/differential whereby each replacement shall be free.
  - (iv) Gear ratios and clusters are free, including those with more than 6 forward ratios.
  - (v) Software/programming of the standard gearbox control unit is free.

## 8.3 CLUTCH

The clutch must be operated by pedal action with the method of operation otherwise free. The position of any master cylinder for hydraulic operation is free. The complete clutch assembly, flywheel and bellhousing are free.

## 8.4 REAR AXLE/DIFFERENTIAL FOR RWD AUTOMOBILES

- (a) **Live axles:** The original configuration and type of all suspension pivot points on the assembly must be retained, save for lateral location as per article 9.10. The rear axle assembly is otherwise free. Fully floating hubs are encouraged.
- (b) **Independent rear suspension:** The final drive assembly may be modified or replaced by one of free design provided the original methods of attachment and location are retained.

## 8.5 TAILSHAFT/DRIVESHAFTS/AXLES

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

## 8.6 TRACTION CONTROL

Traction and/or Stability control is permitted only in accordance with the following:

- (i) The traction or stability control must have been fitted by the manufacturer to the specific eligible make and model of automobile.
- (ii) The original manufacturer fitted ECU for that make and model of vehicle must be retained and used in its entirety utilising the original manufacturers standard software and calibration settings in an unmodified form.
- (iii) The original wiring loom/harness for each body control system must be retained and used in its entirety in an unmodified form.
- (iv) No addition wiring loom/harness is permitted in any form.
- (v) Where any of the original components as above are modified, altered or changed in any way the use of the Traction or Stability control system is not permitted.

# 9. SUSPENSION AND STEERING

## 9.1 SPRINGS

Springs are free provided that the type and location are unchanged (by type is meant: coil, torsion bar, leaf etc.)

## 9.2 BUMP STOPS

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

## 9.3 BUSHES

Elastomeric bushes used at suspension pivot points (which are not otherwise specified in these regulations) may be replaced by other elastomeric bushings. Elastomeric bushes/isolators used at sub-frame to bodyshell mounting points are free.

## 9.4 SUSPENSION DAMPERS

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

## 9.5 FRONT SUSPENSION COMPONENTS

Steering tie rods may be replaced provided they are derived from an eligible Automobile. Stub axles, steering arms, hubs, bearings and tie rod ends are free. MacPherson strut tubes are free. In cases where the steering arms are separate components, it is permitted to fit spacers between the steering arm and stub axle assembly using extended bolts.

## 9.6 MACPHERSON STRUT TOP MOUNTS

The original Macpherson strut tower of the *Body Shell* must be retained. It is permitted to add holes within the original MacPherson strut tower for the mounting of the MacPherson strut upper mount to the *Body Shell*. The upper mount attachment between the strut tower and the Macpherson strut is free.

## 9.7 STRUT TOWER BRACE

A brace of free design may be fitted between the towers and/or triangulated rearwards.

## 9.8 SWAY BARS

Sway bars, their pivot points, pivot mounting plates, mounting brackets, and associated linkages are free.

## 9.9 RIDE HEIGHT ADJUSTMENT

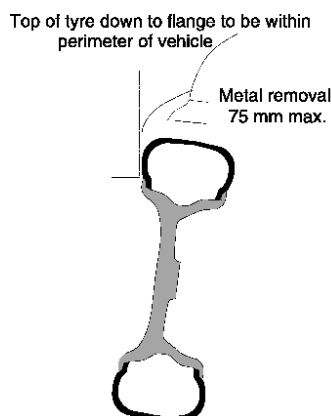
Adjustable spring platforms, rear leaf spring shackles, spacers located directly at either end or between coil springs, lowering blocks of solid/rigid material and torsion bar ride height adjusters are all free.

## 9.10 REAR SUSPENSION COMPONENTS

Devices for the lateral location of the rear wheels on *Automobiles* with a live axle, and any associated brackets on the body, are free. Brackets may be welded to the body. All other components which have any function in the location of the rear wheels must be retained unmodified except for bushings, which must comply with 9.3 above. Drive flanges, trunnions, hubs, stub axles and wheel bearings are free. It is permissible to add additional longitudinal rear suspension arms provided that all bushings are elastomeric and that the mounting points on the body only involve the addition of metal, save for a single hole per arm of maximum diameter 25mm.

## 9.11 WHEEL TRACK

The track dimension is 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 *Automobile* when viewed vertically from above (see diagram 3).



**Diagram 3.**

## 9.12 RIDE HEIGHT

All fully sprung parts of the *Automobile*, with the exception of the entire exhaust system, must be at least 100mm above the ground when measured on a flat level surface with the *Automobile* at *Racing Weight*.

## 9.13 STEERING

- (a) The steering rack or steering box is free provided that:
  - (i) The steering rack housing or steering box housing is an unmodified part from an eligible *Automobile*; and
  - (ii) The mounting points used to mount the original steering rack/steering box on the body, Crossmember and/or Sub frame are used, unmodified, to mount the replacement steering rack/steering box; and
  - (iii) The type of steering remains unchanged (e.g. Steering Rack or Steering box); and
  - (iv) No other modifications (e.g. steering column etc.) are made for its fitment, except as permitted in 9.13(b).
  - (v) Where a steering rack has been changed to one with a different method of power assistance, not available in the original vehicle (e.g. Unassisted, Hydraulic, or Electric), then the Crossmember or Sub frame may be modified only to fit the replacement steering rack. The crossmember and subframe location may not be modified, nor can any suspension pickup points be modified other than as permitted in 9.14.
- (b) An "Electric Power Assisted Steering" (EPAS) column unit is permitted, in which case the steering column may be replaced with an EPAS unit from an eligible *Automobile*. The replacement column is to remain unmodified, the connection to the unit is free. The intermediate shaft may be modified or replaced.
- (c) All other components of the power steering system are free.

## 9.14 WHEEL ALIGNMENT FACILITIES

The wheel alignment settings are free. It is permitted to relocate the front control arm pivot point radially by up to 45mm within the confines of the existing Cross member, Sub frame or body panels. No metal may be removed save that directly associated with the actual pivot point relocation. Rear wheel alignment on independent suspensions may be achieved by relocating suspension pivot points by no more than 20mm within the existing brackets.

## 9.15 REPLACEMENT COMPONENTS

It is permitted to replace suspension and steering components not specifically mentioned in 9.1 to 9.14 with Mechanically Identical Components of the same material as the original components.

The replacement component cannot be adjustable unless the original OEM component was adjustable.

The component must be a commercially available product of the same length, angles, orientation, and type of joints as the original OEM part. It must weight no less than the original OEM part and be manufactured using the same process i.e., pressed, tubular, cast.

Strengthening of the original OEM part is permitted by the addition of metal to a thickness of up to 5mm.

# 10. BRAKES

## 10.1 BRAKE CONTROLS

Brakes must be controlled by a double circuit hydraulic system so arranged that the pedal normally operates on the four road wheels. In the event of fluid leakage at any point in the system, the pedal shall still control two wheels on the same axle, or on diagonally opposite wheels if produced in this format by the *Automobile* manufacturer. For the purpose of adjusting brake bias, it is permissible to change from a diagonal split system, to a front/rear split system. It is permissible to add a facility to allow for the adjustment of the front/rear brake bias from the cockpit.

## 10.2 MASTER CYLINDERS

Power boosters, master cylinders and associated pushrods, fluid lines and hoses are free. The position of replacement master cylinders is free and holes of the minimum necessary dimensions may be made in existing panels to facilitate such fitment. Brake proportioning valves are free.

## 10.3 BRAKE ROTORS

Brake rotating friction surfaces must be made from a ferrous material but are otherwise free. Disc mounting hats are free subject to their being made from aluminium alloy or ferrous material.

#### 10.4 BRAKE CALIPERS

Each brake caliper and brake pad is free, subject to the main housing being made of a ferrous material or an aluminium alloy. Where freedom is not otherwise granted, suspension components may be modified to permit fitment of a replacement caliper.

#### 10.5 HANDBRAKE

The entire handbrake system is free.

#### 10.6 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.

#### 10.7 ABS

If a model of *Automobile* was manufactured with an Anti-Lock Braking System (ABS) as standard equipment, that system can be retained on the condition that the ABS unit and all related software remain unmodified. Alternatively, the entire system can be replaced with a non - Anti-Lock Braking System complying with Article 10.

### 11. WHEELS AND TYRES

#### 11.1 WHEELS

Wheels are free subject to a maximum diameter of 18" and maximum width of 9.5".

#### 11.2 TYRES

(a) Maximum tyre widths must comply with the following Table:

Vehicle Type	Max. Tyre Width As labelled by the tyre manufacturer.
3J (IMPROVED PRODUCTION) < 3000cc	245
3J (IMPROVED PRODUCTION) >3000cc	265
3J (CLASSIC) < 3000cc	225
3J (CLASSIC) > 3000cc	235
3J (CLASSIC) > 3000cc and the vehicle meets minimum race weights as specified in 16.4	265

(b) Each tyre must:

- For all circuit races and associated practice and qualifying, be ~~either a Yokohama A032R or Yokohama A048R ("M" or "MH" compound) or Yokohama A050 ("M" compound only)~~ **Bridgestone RE71RS** tyre. Each tyre shall be purchased from the Australian ~~Yokohama Motorsport~~ **Bridgestone** Distributor Network;
- For speed events, **or for Automobiles in circuit racing with 14" diameter wheels or smaller**, be of a type included on the current Motorsport Australia Production Car Tyre list;
- Have at least a minimum tread depth. The tread wear indicators as provided by the tyre manufacturer will be the definitive method of determining minimum tread depth. At no time prior to practice 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. In all areas where there is no tread wear indicator, the original tread pattern must be clearly visible; and
- Be fitted onto a rim in compliance with *Motorsport Australia Manual* Schedule E.

### 12. ELECTRICAL

#### 12.1 ELECTRICAL SYSTEM

The wiring and electrical connectors, switches, fuses and circuit breakers, starting, ignition and generating systems are free. A panel incorporating additional/ replacement switches and/or circuit breakers may be added. 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.



## **12.2 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.

## **12.3 WINDSCREEN WIPERS**

The windscreen wiper mechanism may not be modified with the exception of the tensioning springs and wiper blades. Wind deflectors may be 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 Automobile of that make and model.

## **12.4 HEADLIGHTS**

Each head light and tail light assembly may be replaced by a non-genuine item provided that the replacement assembly is legal for road use and is from a widely-distributed catalogue.

# **13. COCKPIT / DRIVER'S COMPARTMENT**

## **13.1 STEERING WHEEL**

The steering wheel may be replaced by one which 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 lowered by the addition of spacers/ longer bolts at the rear mounting points provided no other modifications are required.

## **13.2 CONTROLS**

- (a) All driving controls must retain the role laid down for them by the manufacturer.
- (b) Footrests and heat protection panels may be added to the driver's footwell cavity.
- (c) Pedals and pedal boxes are free with the following conditions:
  - (i) For hanging pedals the relocated brake pedal pivot axis shall remain within 75mm of the original brake pedal pivot axis.
  - (ii) For floor mounted pedal boxes, the longitudinal position of the relocated brake pedal pad is to be contained within 75mm of the centre of the original brake pedal pad, when both are in the operable at rest position.

## **13.3 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. Where the original dash incorporates an integral console connecting to the transmission tunnel this panel must be retained. Where the console is attached to the dash via fasteners the console may be removed.

## **13.4 CARPET AND INTERIOR TRIM**

Floor carpet and associated "underfelt", roof lining and interior trim down to the lower edge of the windows, and consoles on the transmission tunnel may be removed. Original door trims and rear seat inside trim panels may be retained or replaced with a rigid, moulded or flat panel. Where a replacement door or rear inside trim is fitted, it must be an opaque, moulded or flat panel constructed from an upholstered rigid material or non-metallic rigid material. The replacement door or rear inside trim must cover all openings and door skin/frame as achieved by the original trim. Door handles, opening levers and window winders may be replaced by one of free design situated in the same general location. Where the original dash incorporates an upholstered crash pad, it may be replaced by one of the same design and re-upholstered. In the case of a 2-door vehicle the area situated below the rear side windows shall be treated in the same manner as a 4-door vehicle.

## **13.5 SEATS**

The driver's seat may be replaced with one in compliance with Schedule C (refer Motorsport Australia Manual General Requirements for Cars and Drivers). Original seat mountings not part of the bodysell may be replaced and/or other mountings added provided that they extend no further than 50mm from the plan view of the seat. All other seats, and associated seat belts are free.

## **13.6 REMOVABLE REAR WINDOW SHELF**

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

### 13.7 HEATER

All components solely associated with the heating, air-conditioning and ventilation system are free. Any openings created by the removal of ducting, vents and controls from the dash must be closed by the addition of panels, which may be used to mount additional instruments or controls.

### 13.8 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.

### 13.9 BOOT/LUGGAGE SPACE TRIM

Trim in the boot/luggage space may be removed.

## 14. SAFETY STRUCTURES

### 14.1 SAFETY CAGE STRUCTURES

Safety cage structures must comply with Schedule J (refer *Motorsport Australia Manual* Technical Appendix).

The removal of the minimum amount of material to assist the fitment of the safety cage members is permitted.

### 14.2 SAFETY HARNESS

Where the *Automobile* is not registered for road use, the original driver's seat belt must be replaced by a safety harness, complying with Schedule I (refer *Motorsport Australia Manual* Technical Appendix).

## 15. FUEL

### 15.1 FUEL

Only fuel as defined by *Motorsport Australia* in Schedule G (refer *Motorsport Australia Manual* Technical Appendix), may be used.

### 15.2 AIR

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

## 16. CAPACITY CLASSES

### 16.1 CAPACITY CLASSES

<b>A</b>	0 – 1600cc
<b>B</b>	1601 – 2000cc
<b>C</b>	2001 – 3000cc
<b>D</b>	3001 – 6000cc
<b>E</b>	6001cc and over *

\* **NOTE:** Capacity Class E Class E Eligibility Conditions as per Article 16.3: 'CLASS E SPECIFIC ELIGIBILITY CONDITIONS'.

### 16.2 CAPACITY TOLERANCE

*Automobile* classification is based on the effective capacity of the engine which is stated by the entrant on the entry form. An *Automobile* will remain eligible for the nominated class provided the effective capacity of the engine does not exceed the nominated class capacity limit by more than 2%.

### 16.3 CLASS E SPECIFIC ELIGIBILITY CONDITIONS

- (a) Class E is to provide classification for an automobile manufactured with a capacity exceeding 6001cc. Each Class E *Automobile* must be defined as eligible in accordance with Article 1.1 and comply with the following:
  - (i) Be a model of *Automobile* released by the manufacturer with an engine capacity exceeding 6001cc;
- (b) The following will apply for each Class E *Automobile*:

- (i) The original engine block and cylinder head/s must be retained.
- (ii) Each engine must retain the capacity for that model of *Automobile* as released by the factory.
- (c) The following will apply for each Supercharged Class E engine:
  - (i) Must comply with Article 4.5, and the relevant requirements for the fitment of a restricting orifice.
- (d) The following will apply for each naturally aspirated Class E *Automobile* engine intake:
  - (i) For an engine fitted with a single throttle body the maximum throttle body internal dimension is 90mm;
  - (ii) For an engine fitted with more than one throttle body it must be fitted with a restrictor of a maximum internal dimension of 89mm that must be fitted:
    - A. to the intake within 50mm of the first throttle body;
    - B. such that all the air that is to enter the engine for combustion must pass only through the restrictor prior to entering the engine; and
    - C. such that the restrictor internal dimension is a maximum of 89mm when measured at any time regardless of temperature of other factors.

#### 16.4 MINIMUM RACING WEIGHTS

For a 3J (IMPROVED PRODUCTION) *Automobile* where the engine block and/or head has been replaced by one of a different design to that fitted as standard equipment for the model concerned, or a supercharger has been fitted where one was not originally fitted to that model of *Automobile*, and for a 3J (CLASSIC) *Automobile* using a tyre greater than 235 width (refer Article 11.2), the following minimum racing weights will apply:

- (a) For a ~~naturally aspirated~~ front wheel drive *Automobile*, based on the swept volume of the engine:

Up to 1400cc	875kg
1400 to 1600cc	965kg
1601 to 2000cc	1045kg
2001 to 3000cc	1125kg
3001 to 4000cc	1215kg
4001 to 5000cc	1310kg
5001 to 6000cc	1405kg

- (b) For each other *Automobile* the following will apply in addition to the table above:
  - (i) For a rear-wheel drive *Automobile*, add 50kg;
  - (ii) For a four-wheel drive *Automobile*, add 90kg.
  - (iii) In consideration of minimum racing weights, each supercharged *Automobile* ~~of or above 1200cc swept volume shall be treated as having a swept capacity of 2001 to 3000cc, those of below 1200cc shall~~ that is entered in the Under 2 Litre (Class B) will be treated as having a swept capacity of 1601 to 2000cc.
  - (iv) For a Class E *Automobile*, the minimum racing weight is 1650kg.

### 17. 3J (CLASSIC)

#### 17.1 SUPERCHARGING

Supercharging is permitted under the following conditions:

- (a) If a supercharger/s is recognised as standard production for the *Automobile* model, and all the following conditions are met, the restricting orifice referred to in 4.5 is not required;
  - (i) All components associated with the induction system must remain operable, and as fitted to the standard production for the *Automobile* Model;
  - (ii) There are no additional components associated with the induction system fitted;
  - (iii) Maximum inlet pressure and engine static compression ratio must remain in accordance with the manufacturer's specifications for the *Automobile*;

- (iv) The engines swept volume is not varied from standard by more than 2%;
- (v) A boost monitor, as specified by Motorsport Australia, is fitted.

## 17.2 WHEEL ARCH FLARES

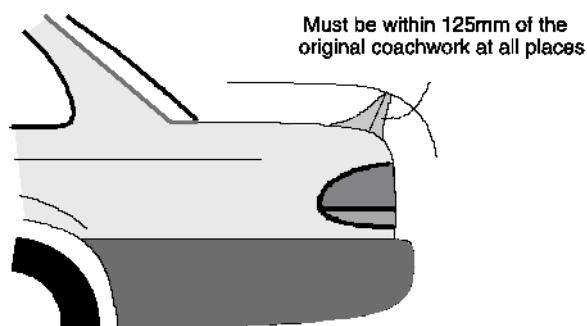
It is permitted to add wheel arch flares, provided that the increase in the total width of the coachwork is less than 100mm, as measured above the corresponding wheel centrelines. No part of the flare is permitted to extend further than 200mm from the original wheelarch opening. The operation of any door must not be affected.

## 17.3 TYRE CLEARANCE

For the purpose of wheel and tyre clearance, minor reshaping of impinging bodywork is permitted. Where a wheelarch flare is fitted in accordance with Article 17.2, it is permitted to remove up to 75mm of original bodywork measured radially from the edge of the wheel arch outwards. A maximum of 10mm of the cut edge may be reformed into a folded-over beading. Any cavity exposed in a door or rear 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.

## 17.4 REAR DECK SPOILERS

It is permitted to fit a rear deck spoiler which complies with the following (see diagram 2):

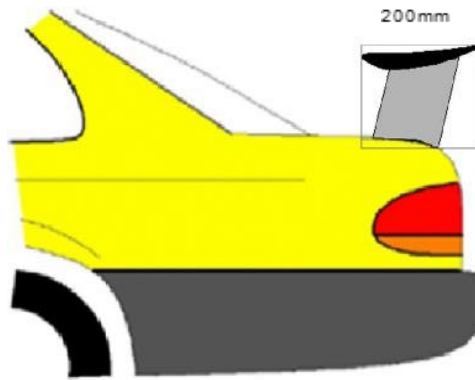


**DIAGRAM 2**

- (a) It was supplied as standard with the particular model of *Automobile* as sold in Australia OR it must comply with the following:
  - (i) No part of it is further than 125mm from the nearest original bodywork, and it does not exceed the standard width of the bodywork excluding any flaring of the mudguards;
  - (ii) Must comply with the *Motorsport Australia* definition of a spoiler (refer *Motorsport Australia Manual* Technical Appendix, Definitions - Technical);
  - (iii) Shall not extend rearwards of the rearmost extremity of the coachwork including the bumper bar;
  - (iv) Shall not be fitted above the rear window or on the roof; and
  - (v) No part of the spoiler may extend any further forward than the centre line of the rear axle.
  - (vi) In the case of a hatchback vehicle, an alternative fitment which complies with the following is permitted. A spoiler may be fitted above the rear window. The entire spoiler and mounts must be no higher than the highest part of the roof on a horizontal plane. No part of the spoiler or mounts are to be further than 125mm from the nearest original bodywork and no wider than the original bodywork at the installed height when viewed from the front of the vehicle.
- (b) A wing may not be fitted to a 3J(CLASSIC) *Automobile* unless it was a factory option at time of release.

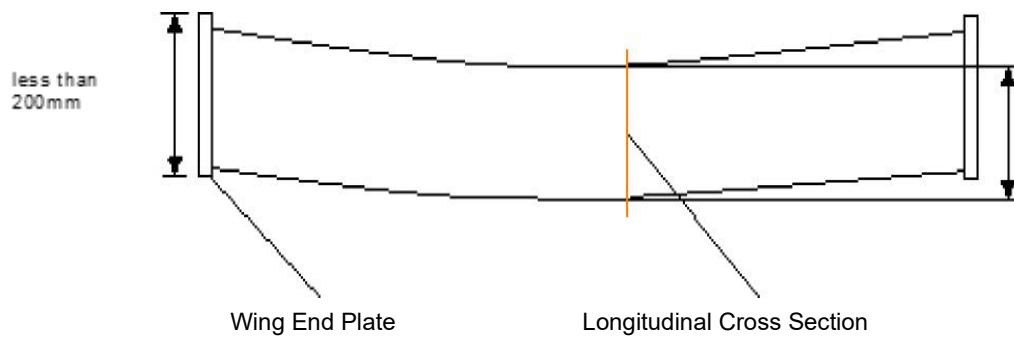
## 17.5 REAR DECK WING

Where a 3J (CLASSIC) model of *Automobile* as sold in Australia was supplied as standard with a rear deck wing/aerofoil (refer *Motorsport Australia Manual* Technical Appendix – Definitions Technical), a rear deck spoiler as per Article 3.6 may not be fitted.



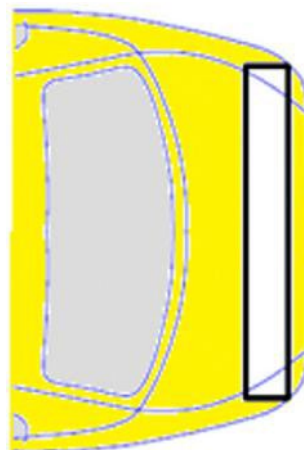
**DIAGRAM 4**

less than  
200mm



**DIAGRAM 5**

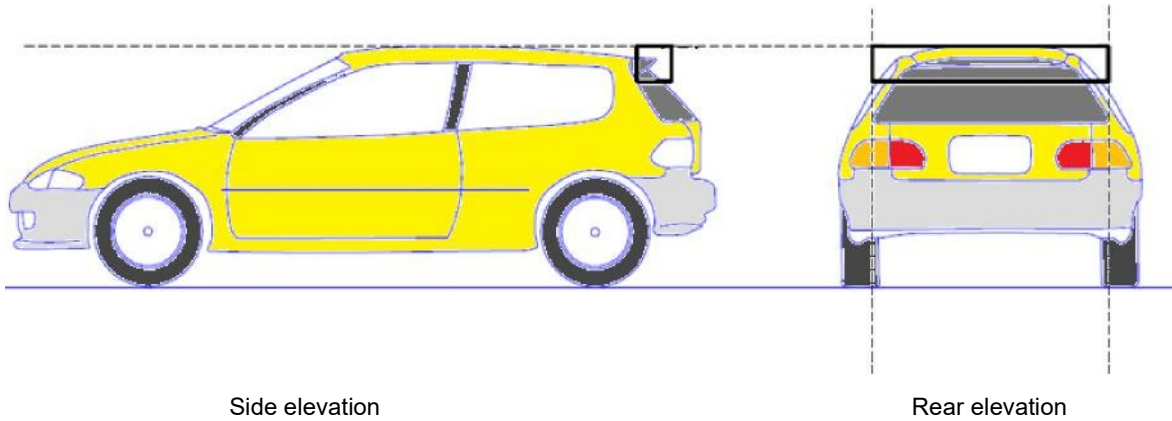
### **CURVED WING ELEMENT - PLAN VIEW**



Wing assembly must be completely within the outline of the Automobile in plan view (i.e., using string-line and plumb bob to check)

## DIAGRAM 6

### PLAN VIEW



Side elevation

No part of the wing should be higher than the highest part of the roof in a horizontal plane.

Rear elevation

The wing shall be no wider than the widest part of the hatch assembly

## DIAGRAM 7