

TECHNICAL BULLETIN

Group 3D – Sports Sedans

REFERENCE:

CAMS Online Manual of Motor Sport, Race, Group 3D - Sports Sedans.

http://www.camsmanual.com.au/02_race.asp#3rd

RATIONALE:

To update the Group 3D Sports Sedan technical regulations in accordance with recommendations of the National Australian Sports Sedan Association.

ACTION:

Amend Article 1.1 as follows:

“1.1:

This group envisages a considerable degree of modification to automobiles so as to render them more suitable for competition without modification to the external body shape except as specifically allowed for in the Regulations. This group caters for dedicated circuit racing cars of essentially free construction which utilise coachwork being recognisable as that of a production vehicle.

~~The basic vehicle shall be a front-engined car utilising either a steel tube chassis to which a non-load bearing coachwork shall be attached (spaceframe vehicle), or heavily modified vehicle that utilises the standard factory sheetmetal (floorpan vehicle). The vehicle must have four non-aligned wheels, of which only two are used for steering. Where a restriction is not specifically applied, the car is otherwise free.~~

The basic vehicle shall be a front-engined car utilising a chassis as follows:

(a) Spaceframe Vehicle: A vehicle which utilises a steel tube chassis to which a non-load bearing coachwork is attached.

(b) Two Wheel Drive (2WD) Floorpan Vehicle: A heavily modified two wheel drive production vehicle that utilises the standard factory sheetmetal including roof, pillars, door sills and the majority of the cockpit floor section.

(c) Four Wheel Drive (4WD) Floorpan Vehicle: A four wheel drive production vehicle that utilises the standard factory sheetmetal which shall be retained in the following areas: roof, pillars, door sills, floor section, sub-frame assemblies which incorporate suspension mounting points and standard pickup points, except where specific provision is made for modification of these items, as follows:

- **Relieving the transmission tunnel to provide clearance to fit a gearbox. Other than the hole provided for the shifter, the transmission tunnel shall enclose the transmission components and shall not be removable from the floor pan;**
- **Relieving the wheel wells to provide clearance for tyre and wheel assemblies;**
- **Drilling holes for the fitment of permitted accessories and components;**
- **Removal of unused standard brackets.**

The vehicle must have four non-aligned wheels, of which only two are used for steering.

Where a restriction is not specifically applied, the car is otherwise free.”

Amend Article 3.2 (ii) as follows:

“3.2 (ii) The rear bumper, fascia, or beaver panel may be modified to facilitate the passage of exhaust pipe/s and the fitment of a rear diffuser as detailed in 3.5 (vi). No part of the opening is to be above a horizontal plane passing through the centre of the rear wheel hubs and the opening is to be contained laterally within the inside of the rear tyres (the inner track) with the tyres inflated to a maximum of 30PSI.”

Amend Article 3.5 (vi) as follows:

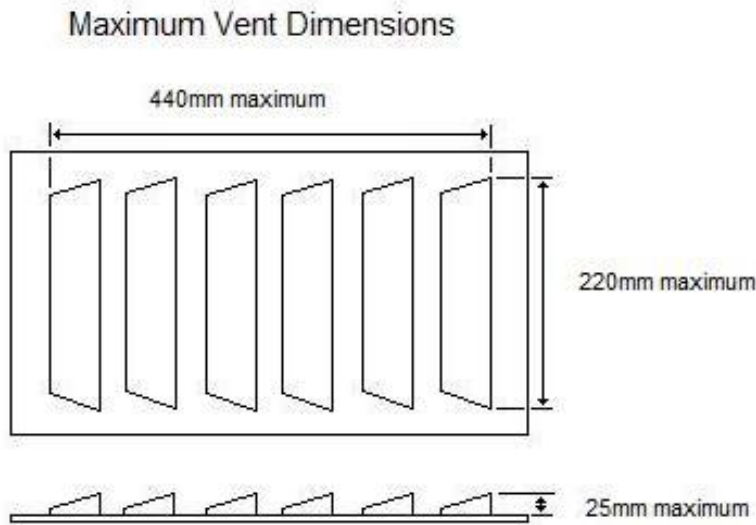
“3.5 (vi) It is permitted to fit rear diffuser/undertray assemblies provided they do not extend any wider than the original coachwork, or further rearward than 100mm beyond the original coachwork. Any modification to the rear bumper, fascia and or beaver panel to fit a rear diffuser shall be in compliance with Article 3.2(ii).”

Add new Article 3.6 (viii) as follows:

“3.6 (viii) Bonnet and mudguard air extraction: Where the original vehicle has no bonnet or front mudguard air outlets for extraction of air from under the bonnet and or front mudguard area, or if the original outlet/s is less than 500 square centimeters, then louvred venting may be added to the bonnet or mudguard/s subject to the following criteria:

- **The maximum area the louvred area/s may occupy is 968 square centimeters;**
- **A maximum of two (2) vented areas may be added;**
- **The maximum height of any part of any vent is to be 25mm higher than the area of the immediately surrounding bonnet or mudguard;**
- **The maximum total width of the vent openings/raised sections is 220mm;**
- **The maximum total length of the vent openings/raised sections is 440mm.**

The following diagram details the maximum dimensions if only one vent is added:



Amend Article 3.10 as follows:

“3.10 Floor pan:

(i) The floor pan may either:

- (a) remain original, to be known as “floorpan vehicles”, **comply with a definition of a “floorpan vehicle” outlined in article 1.1**, or
- (b) be replaced by a component whose lower surface is flat and is mounted parallel to the bottom edge of the sill, to be known as “spaceframe vehicles”, and complies with the following...”

Amend Article 4.2 as follows:

“4.2 Suspension and chassis:

The chassis of the vehicle shall be constructed of either steel tubes (spaceframe construction) or ~~standard~~ metal pressing (floorpan construction, **refer Article 1.1**) to...”

Amend Article 4.3 as follows:

“4.3 Transmission: The design of the transmission is free, save for the following:

- The clutch must be controlled exclusively by the driver by either mechanical or hydraulic actuation. The use of any electronic clutch actuation systems is prohibited.
- The gears must be selected by the driver exclusively via a mechanical linkage.
- The use of any electronic, hydraulic or pneumatic gear selection device or assistance is prohibited.
- A gear lever-mounted switch, which must only provide a gear shift cut signal to the ECU, may be fitted.
- Four-wheel drive is permitted on cars originally produced in that configuration, however they must remain in “~~floorpan~~ **4WD Floorpan Vehicle**” construction and retain the original engine engine block, cylinder head **and engine location** for that particular vehicle model.
- An operable reverse gear must be fitted.
- The maximum number of forward gears shall be six.”

Amend Article 4.4 as follows:

“4.4 Engines:

(i) **The e**Engine and ancillary equipment is free, provided that:

- the engine block is derived from a car eligible under the provisions of Article 2 hereof;
- the road use mass-produced three-rotor rotary engine assembly is acceptable (Mazda 20B);
- all engines must be front mounted;
- it is sourced from a series production vehicle of which at least 2500 examples were built; or,
- it is permitted to use a cylinder block manufactured by ~~an aftermarket~~ **a supplier to the aftermarket** provided that:
 - (a) it is an identifiable replacement for a permitted, original equipment cylinder block;
 - (b) the centrelines of the crankshaft, camshaft/s, and **where applicable** lifter bores are in the same relative positions as ~~per~~ the original equipment cylinder block; and
 - (c) it is made from the same material as the original block.

Alternatively one of the following engine blocks may be utilised:

- **GM Performance Parts/Chevrolet SB2.2, cast iron;**
- **Dart SBF Iron Eagle 351 Sportsman (Ford configuration), cast iron;**
- **Mopar/Dodge Nascar Sprint Cup, R5 , cast iron.”**

END