



## **CAMS NSW SUPERSPRINT CHAMPIONSHIP**

### **TECHNICAL REGULATIONS**

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#### **INTRODUCTION**

The NSW Supersprint Panel has developed the following Technical Regulations for all Supersprints in NSW, ranging from single club events through to State Championship events.

In these Regulations a reference to the CAMS Manual is a reference to the CAMS Manual of Motorsport then current as at the date of completion of these regulations as may be amended from time to time.

Whilst there are seven (7) Types identified, Clubs or Associations are welcome to run events with five or less Types, but they should understand that some vehicles might then not be able to run. As an example, the NSW Supersprint Championship currently runs Types 1, 2, 3, 4, 5, 6 and 7.

#### **TYPES**

In general, the Type rules are a combination of Circuit Racing Classes from the CAMS Manual (Types 3, 4, 5 and 7) and categories to suit the more standard, road-registered cars used by newcomers to the sport. These categories are also designed to provide low-cost competition, a prime objective of Supersprints.

The seven Types are:

- Type 1 Unmodified **Production Cars** that are **Road Registered** (excluding **Four Wheel Drive Turbos, Clubmans, Kit Cars, Replicas** and **Exotics**), where the only freedoms relate to safety, engine reconditioning, tyres and some cosmetic items.
- Type 2 Modified **Production Cars** that are **Road Registered** (excluding **Clubmans, Kit Cars** and **Replicas**), allowing originally available options and limited modifications to engines, suspension and tyres.
- Type 3 Competition vehicles based on Group 3J - Improved Production Cars rules as defined in the CAMS Manual.
- Type 4 Competition vehicles based on the Group 2F – Prodsports rules as defined in the CAMS Manual.
- Type 5 Competition vehicles based on the Group 3D - Sports Sedan and the Group 2B – Prodsports rules as defined in the CAMS Manual.
- Type 6 Highly modified mass produced vehicles commonly known as “Time Attack” vehicles that are modified specifically for the performance of fast lap times and not for racing.
- Type 7 **Clubmans, Kit Cars** and **Replicas** (whether **Road Registered** or not), **Racing Cars, Sports Racing Cars** and **Sports Racers** or as classified by the NSW Supersprint Panel.

## MULTIPLICATION FACTORS FOR CAPACITY

For all Vehicle Types except Type 5, capacity must be calculated on the following basis:

Rotary Engines                      Multiply displacement by 1.8

Forced Induction                      Multiply displacement by 1.7

Forced Induction Rotary      Multiply displacement by 3.06

For Type 4, capacity must be calculated on the following basis:

Rotary Engines                      Multiply displacement by 1.75

Forced Induction                      Multiply displacement by 1.7

Forced Induction Rotary      Multiply displacement by 2.975

## CLASSES

### TYPE 1

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<b>Class</b>	<b>Engine capacity</b>
A	0 - 1600cc
B	1601 - 2000cc
C	2001 – 4000 cc
D	4001cc & above

### TYPE 2

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<b>Class</b>	<b>Engine capacity</b>
A	0 - 1600cc
B	1601 - 2000cc
C	2001 - 4000 cc
D	4001cc & above

### TYPE 3

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<b>Class</b>	<b>Engine capacity</b>
A	0 - 1600cc
B	1601 - 2000cc
C	2001 - 4000 cc
D	4001cc & above

**TYPE 4**

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<b>Class</b>	<b>Engine capacity</b>
A	0 - 1600cc
B	1600 - 2000cc
C	2001 - 4000 cc cc
D	4001cc & above

**TYPE 5**

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<b>Class</b>	<b>Vehicle description</b>
A	Group 3D – Sports Sedan vehicles with an engine capacity up to 4,000cc
B	Group 3D – Sports Sedan vehicles with an engine capacity from 4,001cc to 6,000cc. Note: Any <b>Road Registered</b> vehicle that has a standard engine capacity above 6,000cc may retain its original capacity plus 2%.
C	Group 2B - Prodsports vehicles with an engine capacity up to 4,000cc
D	Group 2B Prodsports vehicles with an engine capacity 4,001cc to 6,000cc. Note: Any Class 1 Group 2B – Prodsports vehicle (as defined in the Group 2B – Prodsports regulations) or any <b>Road Registered</b> vehicle that has a standard engine capacity above 6,000cc may retain its original capacity plus 2%

**TYPE 6**

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<b>Class</b>	<b>Vehicle description</b>
A	Naturally aspirated vehicles that comply with the Clubsprint Category Regulations contained in the Type 6 Technical Regulations.

- B Forced induction vehicles that comply with the Clubsprint Category Regulations contained in the Type 6 Technical Regulations.
- C **Two Wheel Drive Vehicles** that comply with the Open Category Regulations contained in the Type 6 Technical Regulations.
- D **Four Wheel Drive Vehicles** that comply with the Open Category Regulations contained in the Type 6 Technical

## TYPE 7

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Class	Vehicle description
A	<b>Road Registered Clubmans</b> and vehicles defined as a Formula Vee in the CAMS Manual.
B	<b>Clubmans, Kit Cars and Replicas</b> using <b>Race Tyres, Clubmans</b> that are not <b>Road Registered</b> and vehicles defined as a Formula Ford or Formula Ford 1600 in the CAMS Manual
C	Cars determined to be eligible to compete in Type 7 by the NSW Supersprint Panel, <b>Racing Cars, Sports Racing Cars and Sports Racers</b> with an engine capacity up to and including 2000cc.
D	Cars determined to be eligible to compete in Type 7 by the NSW Supersprint Panel, <b>Racing Cars, Sports Racing Cars and Sports Racers</b> with an engine capacity greater than 2000cc.

## DEFINITIONS

Where used in these Technical Regulations, the words and phrases set out in this Definitions section shall have the following meanings. Unless otherwise expressed or implied in these Technical Regulations, words and phrases shall have the same meanings as are contained in the CAMS Manual.

**Aftermarket** means non-factory parts, accessories and upgrades to a motor vehicle to assist in performance and, for the purposes of these Technical Regulations, includes **Factory Extras**.

**CAMS Approved Boost Monitor** means a boost monitor, as specified by CAMS and referred to in Rule 4.5 of the Group 3J - Improved Production Cars rules contained in the CAMS Manual.

**CAMS Approved Restrictor** means a restricting orifice as referred to and described in Rule 4.5 of the Group 3J - Improved Production Cars rules contained in the CAMS Manual.

**Clubman** means a lightweight two-seater open-top sports car generally based on the Lotus Seven, which may be either constructed with a chassis or be of monocoque construction with no limitation placed on the material used in the body shell. A Clubman shall include, but not be limited to, vehicles generally based on the Lotus Seven either manufactured by (either whole, in part or in kit form) or marketed as Lotus, PRB, Birkin, Amaroo, Westfield, Caterham, Elfin, Fraser and Leitch but shall exclude any Clubman Sports 1300 or any other vehicle described in Group 2C – Supersports (Group 2C Clubman Sports Cars) in the CAMS Manual.

**Eligible Vehicle** means a vehicle available for purchase from a major manufacturer, either currently or previously, as a new mass produced vehicle.

**EMS** means the electronic device that controls various aspects of the operation of the vehicle's engine including but not limited to, the control of: -

- (a) the vehicle's ignition,
- (b) the vehicle's fuel supply and fuel injection, and
- (c) if the vehicle is turbocharged, the inlet pressure of the vehicle's turbo.

Such a device is variously known as the Engine Management System, the Engine Control Unit and/or the Engine Control Module.

**EMS Modification** means the modification of the **EMS** in any manner whatsoever and includes but is not limited to: -

- (a) modification (including reprogramming) of the software program incorporated in and forming part of the **EMS**, and/or
- (b) the replacement of the **EMS** or any part of it, and/or
- (c) the fitting of any additional component to the **EMS**, and/or
- (d) the "flashing", "chip tuning" and/or "remapping" of the **EMS**.

**Exotic** means any vehicle that has or had a Manufacturer's Recommended Retail Price that exceeds the **Exotics Indexed Price** for that vehicle and/or any other vehicle that the NSW Supersprint Panel determines, in its absolute discretion, as a vehicle that should not be eligible to compete in Type 1 because of its cost or value. For the purposes of this definition, Manufacturer's Recommended Retail Price shall not include what are commonly called On Road Costs, including, without limitation, Stamp Duty, Registration Fees, premiums paid or payable for any Compulsory Third Party Insurances and any Dealer Delivery Fees.

**Exotics Indexed Price** means the applicable Indexed Price as at the Year of Vehicle Manufacture as shown in the following schedule:

Year of Vehicle Manufacture	Indexed Price
Any year prior to 2005 .....	\$75,000.00
2005 .....	\$76,800.00
2006 .....	\$79,900.00
2007 .....	\$81,600.00
2008 .....	\$85,200.00
2009 .....	\$86,400.00
2010 .....	\$89,100.00
2011 .....	\$92,300.00
2012 .....	\$93,400.00
2013 .....	\$95,600.00
2014 .....	\$98,500.00
2015 .....	\$100,000.00
Any year after 2015 .....	\$101,500.00

For the purpose of this definition, the Year of Vehicle Manufacture shall be the year of manufacture shown on the Identification Plate (formerly known as a Compliance Plate) attached to the vehicle.

**Factory Extra** means any optional extra available for purchase at the time of the sale of the original vehicle but only if such optional extra was manufactured by or on behalf of the manufacturer of the vehicle and offered for sale by the seller of the new vehicle.



**Four Wheel Drive Turbo** means a **Production Car** with a forced induction engine where all four wheels are or can be driven and where such forced induction is achieved by the use of a turbocharger.

**Four Wheel Drive Vehicle** means a four wheel vehicle where all four wheels are or can be driven.

**Improved Production Import** means a race vehicle derived from a registered production automobile, with limited modifications to improve performance and reliability in speed events on circuits or closed courses.

To be eligible: -

- (a) the model of the vehicle that the race vehicle was derived from must be or have been a mass-produced touring car, the model of which is or has been commercially available to the general public outside of Australia as a new car, capable of registration for normal road use in the country of manufacture, through a manufacturer's dealer network, and
- (b) at least 200 examples of such model must have been registered for road use in the country of manufacture, and
- (c) at least 200 examples of such model must have been produced in a 12 consecutive month period.

**Kit Car** means a car produced by the assembly of a kit or set of components supplied by a supplier, which supplier may or may not be the manufacturer of some or all of the components supplied, where the assembly of the components is carried out by a party other than the supplier of the components.

**Production Car** means an a mass-produced automobile, either manufactured in Australia and/or overseas, the model of which is or has been commercially available to the general public in Australia and/or overseas as a new car through a manufacturer's dealer network, and

- (a) at least 200 examples of such model must have been registered for normal road use in Australia and/or in the country of manufacture,

and

- (b) at least 200 examples of such model must have been produced in a 12 consecutive month period.

**Race Tyres** means and includes: -

- (a) Racing slicks and/or
- (b) any tyre marked "for racing use only", or words to that effect and/or
- (c) any tyre where the manufacturer has stated in writing that: -
  - (i) it is suitable for racing use only and/or
  - (ii) it is suitable for use on the race track only and/or
  - (iii) it is not suitable for use on a public road or highway.

**Racing Car** means an automobile offering accommodation for one person designed exclusively for races and speed events that complies with: -

- (a) the General Requirements of Automobiles specified in Schedules A, B and C, and
- (b) the General Requirements specified in 1<sup>st</sup> Category-Racing Cars of the CAMS Manual.

**Registration Papers**, in respect of a vehicle, means the documentation identifying the vehicle issued by the appropriate body administering the registration system of vehicles used for normal road use in Australia that identifies the registered operator of the vehicle and the fact that it is **Road Registered**.

**Replica** means a car that is not mass produced but is generally available to the public and which is intended to resemble a car manufactured by others either in performance or appearance.

**Road Registered** means registered for normal road use in New South Wales by the NSW Roads and Traffic Authority or in any other state or territory within the Commonwealth of Australia by its interstate equivalent.

**Road Tyres** means tyres which, when fitted to a vehicle, will permit it to be registered for normal road use in New South Wales. To be considered as such, except at tread wear indicators, a tyre fitted to the vehicle must have a moulded tread pattern at least 1.5 millimetres deep that runs at least 75% across the tread of the tyre and predominantly around the circumference of the tyre. Tyres specified in the Production Car Tyre List contained in Schedule E of the CAMS Manual shall be deemed to comply as **Road Tyres** but **Race Tyres** are specifically excluded from this definition of **Road Tyres**. For the purposes of this definition of **Road Tyres**, “tread” means that part of the surface of the tyre that normally comes into contact with the road or ground and “moulded tread pattern” means the grooves moulded into the tread.

**Sports Racing Car** means a two-seater sports car or other two-seater highly modified car that complies with any of the Groups specified in 2<sup>nd</sup> Category-Sports Cars of the CAMS Manual.

**Sports Racer** means a restricted design open, centre seated, sports-racing car with a mid-mounted engine driving the rear wheels only and intended for use in speed events and races as described and specified in 6<sup>th</sup> Category- Other Vehicles of the CAMS Manual as a Sports Racer.

**Two Wheel Drive Vehicle** means a four wheel vehicle where only two wheels of the vehicle are or can be driven and includes both rear wheel drive and front wheel drive vehicles.

To assist in the interpretation of these regulations, the words and phrases defined in this Definition section shall be shown throughout these regulations in **bold font in italics**.

## CAMS NSW SUPERSPRINT TECHNICAL REGULATIONS

### Type 1 Technical Regulations

#### 1 General

- 1.1 The category is generally intended to cater for unmodified production cars meeting the manufacturer's original specifications where freedoms allowed relate only to safety, engine reconditioning, tyres and cosmetic modifications. **Exotics, Four Wheel Drive Turbos, Clubmans, Kit Cars** and **Replicas** are specifically excluded from this Type.
- 1.2 Allowable vehicle body types include open sports (with mudguards), sports coupes, sedans, station wagons, utilities and vans.
- 1.3 The entire vehicle must be as originally specified by the manufacturer except for the specific freedoms allowed herein.
- 1.4 The vehicle must be a **Production Car**.
- 1.5 The vehicle must be **Road Registered** and, apart from any freedom specifically mentioned in these Type 1 Vehicle regulations, no change is permitted to be made to the vehicle during competition that would render it ineligible for such registration.
- 1.6 All vehicles in the Type must comply with the General Requirements of Automobiles Schedules A & B contained in the CAMS Manual. Any modifications necessary to comply with the said requirements are permitted.
- 1.7 Where freedom is permitted to fit nominated or recognised parts, such freedom is strictly limited to such components themselves and it shall not be permissible to modify other parts, save by the drilling of holes for supporting purposes.
- 1.8 The NSW Supersprint Panel reserves the right to recognise or reject makes and models at its' discretion.

- 1.9 Any vehicle that is classified as a Type 1 vehicle pursuant to these regulations shall be permitted to enter in any Class in this Type 1 provided that engine capacity of the vehicle does not exceed the maximum capacity allowable in the Class entered.
- 1.10 Numbers plates may be removed or concealed but current **Registration Papers** must be available for inspection by the Event Secretary and when the vehicle is presented for scrutineering to verify both the ownership of the vehicle and that the vehicle is **Road Registered**.
- 1.11 **Factory Extras** are permitted.

## 2. Coachwork

- 2.1 Safety equipment and cosmetic or comfort accessories may be added, provided that they do not improve the performance of the vehicle.
- 2.2 Additional instruments and switches are permitted and may be fitted to a separate panel.
- 2.3 Additional headlights (e.g. fog lights and driving lights) are permitted.
- 2.4 The spare wheel and associated tools may be removed.
- 2.5 The driver's seat may be replaced with a non-standard seat that is commercially available and permitted in a **Road Registered** vehicle. The front passenger's seat may also be replaced provided that the replacement seat is equivalent to or better than the seat replacing the driver's seat. Seat supports may be modified to enable fitment of an allowable replacement seat. Any rear seat or seats may be removed.

### **3. Engine**

- 3.1 The engine may be reconditioned as stated in the manufacturer's repair manual.
- 3.2 Baffle plates may be fitted to the removable section of the oil pan.
- 3.3 Freedom of supply is permitted in respect to condensers, coils, filter elements, spark plugs, leads, fan belts, radiator hoses and gaskets.
- 3.4 A replacement exhaust system will only be acceptable if it is of the same configuration and diameter as the original.
- 3.5 No **EMS Modifications** are permitted.

### **4. Transmission**

- 4.1 Clutch linings are free, as is their method of attachment.

### **5. Brakes**

- 5.1 Brake linings and rotors are free provided that the diameters of the rotors are not increased.

### **6. Suspension**

- 6.1 It is permitted to adjust the wheel alignment in accordance with the manufacturer's recommendations and/or normal wheel alignment principles.

### **7. Fuel**

- 7.1 Only Commercial Fuel may be used.

## 8. **Wheels and Tyres**

- 8.1 Wheels can be changed but must adhere to manufacturer's original size specification or as close thereto as commercially available.
- 8.2 Only **Road Tyres** are permitted to be used. Tyre sizes must adhere to manufacturers' original specifications in respect to width and aspect ratio or as close thereto as commercially available.
- 8.3 At no time prior to the commencement of competition may any tread wear indicator as provided by the manufacturer be exposed. In all areas where there is no indicator the original tread pattern must be clearly visible except on the shoulder of the tyre where excessive wear may occur due to steering and cornering.

## CAMS NSW SUPERSPRINT TECHNICAL REGULATIONS

### Type 2 Technical Regulations

#### 1. General

- 1.1 The category is generally intended for **Road Registered** vehicles with limited modifications. **Clubmans**, **Kit Cars** and **Replicas** are specifically excluded from this Type.
- 1.2 Allowable vehicle body types include open sports (with mudguards), sports coupes, sedans, hatchbacks, station wagons, utilities and vans.
- 1.3 The entire vehicle must be as originally specified by the manufacturer except for the specific freedoms allowed herein.
- 1.4 The vehicle must be a **Production Car**.
- 1.5 The vehicle must be **Road Registered** and, apart from any freedom specifically mentioned in these Type 2 Vehicle regulations, no change is permitted to be made to the vehicle during competition that would render it ineligible for such registration.
- 1.6 All vehicles in the Type must comply with the General Requirements of Automobiles Schedules A & B contained in the CAMS Manual. Any modifications necessary to comply with the said requirements are permitted.
- 1.7 Where freedom is permitted to fit nominated or recognised parts, such freedom is strictly limited to such components themselves and it shall not be permissible to modify other parts, save by the drilling of holes for supporting purposes.
- 1.8 The NSW Supersprint Panel reserves the right to recognise or reject makes and models at its discretion.
- 1.9 Any vehicle that is classified as a Type 2 vehicle pursuant to these regulations shall be permitted to enter in any Class in this Type 2



provided that engine capacity of the vehicle does not exceed the maximum capacity allowable in the Class entered.

1.10 Numbers plates may be removed or concealed but current **Registration Papers** must be available for inspection by the Event Secretary and when the vehicle is presented for scrutineering to verify both the ownership of the vehicle and that the vehicle is **Road Registered**.

1.11 **Factory Extras** are permitted.

1.12 Provided they comply with these Type Regulations, **Four Wheel Drive Turbos** are permitted to compete as a Type 2 vehicle but they are not permitted any of the engine modification freedoms contained in Regulations 3.1 to 3.15 inclusive of these Type 2 Technical Regulations but they are permitted the engine modification freedoms contained in Regulations 3.1 to 3.3 inclusive of the Type 1 Technical Regulations. No **EMS Modifications** are permitted on **Four Wheel Drive Turbos**.

## **2. Coachwork**

2.1 Safety equipment and cosmetic or comfort accessories may be added, provided they do not improve the performance of the vehicle.

2.2 Reforming of the wheel-arch beading against the inside of the mudguard is permitted, and any body joint protrusion may be rendered safe.

2.3 Additional instruments and switches are permitted and may be fitted to a separate panel.

2.4 Additional headlights (eg fog lights and driving lights), in accordance with 1.5, are permitted.

2.5 The spare wheel and associated tools may be removed.

- 2.6 The steering wheel may be replaced.
- 2.7 The addition of a sunroof does not necessarily render the vehicle ineligible. Each case should be considered on its merits, taking the extent of structural modification and safety into account.
- 2.8 All controls and their functions must remain as provided by the manufacturer, but it is permissible to arrange them in such a way as to make them more accessible and easier to use (e.g. fitting additional padding to pedals, extensions to switches, etc)
- 2.9 The driver's seat may be replaced with a non-standard seat that is commercially available and permitted in a **Road Registered** vehicle. The front passenger's seat may also be replaced provided that the replacement seat is of a standard that is equivalent to or better than the seat replacing the driver's seat. Seat supports may be modified to enable fitment of an allowable replacement seat. Any rear seat or seats may be removed.
- 2.10 Carpets and sound deadening material may be removed.
- 2.11 Bracing may be fitted between the front MacPherson strut towers.

### 3. Engine

- 3.1 Carburettors may be replaced, provided the replacement(s) are of the same configuration (i.e. downdraught or side draught) and have the same number of inlet venturis as the originals.
- 3.2 A sandwich-type adaptor plate to enable installation of a replacement carburettor is permitted.
- 3.3 Fuel injectors are free but not their number or position. Fuel injection cannot replace carburettor(s) and vice versa. **EMS Modifications** are permitted on non-turbo cars.
- 3.4 Pistons and piston rings are free.

- 3.5 Material may be removed from, but not added to, piston crowns and cylinder heads for the purpose of volumetric balancing of the combustion chambers only.
- 3.6 Material may be removed from conrods, crankshafts and flywheels for the purpose of balancing and surface polishing.
- 3.7 Material may be removed from cylinder bores (for reconditioning purposes) to the limit of manufacturer's specifications.
- 3.8 The camshaft is free but not the number of bearings.
- 3.9 Inlet and exhaust manifolds and ports may be internally polished and reshaped.
- 3.10 On rotary engines the original dimensions of the intake and exhaust ports on the inner side of the engine can be changed, however, bridge and peripheral porting is not permitted
- 3.11 On turbocharged vehicles, no modifications are permitted to the induction system or any components associated with its functioning. Maximum inlet pressure must remain in accordance with the manufacturer's specifications for the vehicle. No **EMS Modifications** are permitted on turbocharged vehicles.
- 3.12 Baffle plates may be fitted to and modifications may be made to increase the oil capacity of the removable section of the oil pan.
- 3.13 The air cleaner and filter element is free.
- 3.14 Freedom of supply is permitted in respect to condensers, coils, filter elements, spark plugs, leads, fan belts, radiator hoses and gaskets.
- 3.15 The exhaust system is free on naturally aspirated vehicles. On turbocharged vehicles the exhaust is free from the exit of the turbocharger only. No muffler(s) shall be visible outside the perimeter of the vehicle when viewed from above or the side. Note: noise restriction requirements of the vehicle registration authority must be adhered to.

3.16 Air conditioning systems are free.

#### **4. Transmission**

4.1 Clutch linings are free, as is their method of attachment.

4.2 Limited slip differentials are permitted only when available as an option for the model concerned from the original manufacturer, or its authorised supplier. Modifications to the differential cover or the fitting of a high capacity differential cover to increase the oil capacity of the vehicle differential are permitted.

4.3 Non-standard gear and differential ratios are permitted only when available as an option for the model concerned from the original manufacturer, or its authorised supplier.

#### **5. Brakes**

5.1 Brake linings and rotors are free provided that the diameters of the rotors are not increased.

#### **6. Suspension**

6.1 The type of shock absorber is free but not their number or mounting points.

6.2 The rate and length of springs is free and adjustable spring platforms are permitted.

6.3 Sway bars may be added, replaced or deleted.

6.4 It is permitted to adjust the wheel alignment in accordance with the manufacturer's recommendations and/or normal wheel alignment principles, except that the original dimensions must be respected as

to wheelbase and a maximum increase in track of 25mm (1") is permitted for camber adjustment only.

- 6.5 Camber adjustment kits are permitted.
- 6.6 Plain bushings may be replaced by those of a different material provided that original dimensions are retained.

## 7. Fuel

- 7.1 Only Commercial Fuel may be used.

## 8. Wheels and Tyres

- 8.1 Wheels can be altered, in both diameter and width, by up to one inch in width and two inches in diameter over manufacturer's original specifications, provided that the tyres do not extend beyond the outer edge of the coachwork (including wheel arch flares) when viewed vertically from above.
- 8.1 Only **Road Tyres** are permitted to be used. Tyre sizes with respect to width and aspect ratio are free.
- 8.3 At no time prior to the commencement of competition may any tread wear indicator as provided by the manufacturer be exposed. In all areas where there is no indicator the original tread pattern must be clearly visible except on the shoulder of the tyre where excessive wear may occur due to steering and cornering.

## 9. Steering

- 9.1 **Aftermarket** power steering cooling units are permitted.

## CAMS NSW SUPERSPRINT TECHNICAL REGULATIONS

### Type 3 Technical Regulations

(Based on Group 3J Improved Production Regulations)

#### 1. General

- 1.1 Apart from anything to the contrary specifically contained in these Type 3 Regulations and in the available classes for Type 3 as set out earlier in these Technical Regulations, this Category is identical to Group 3J - Improved Production Cars as specified in the CAMS Manual.
- 1.2 Provided that it otherwise complies with the requirements for a Group 3J – Improved Production Car as defined in the CAMS Manual, a vehicle that is a hatchback, station wagon, utility or a van shall be eligible to compete in this Type 3.
- 1.4 Provided it complies with all of the requirements of a Group 3J – Improved Production Car as contained in the CAMS Manual other than those contained in Clause 1.1 of those requirements, an **Improved Production Import** is permitted.
- 1.5 Any vehicle that is classified as a Type 3 vehicle pursuant to these regulations shall be permitted to enter in any Class in this Type 3 provided that engine capacity of the vehicle does not exceed the maximum capacity allowable in the Class entered.
- 1.6 Vehicles that are not **Road Registered**:-
  - (a) must be fitted with an approved roll cage, and
  - (b) if the vehicle is a closed vehicle, a safety window net that complies with the requirements set out in Schedule I – Safety Harnesses/Window Nets of the General Requirements for Cars and Drivers contained in the CAMS Manual must be fitted to the driver's door window opening. If the vehicle is derived from

series production automobile manufactured after 1970 and retains the unmodified door, hinges and latches of the registrable automobile, then such an automobile fitted with a permanently closed shatterproof window on the driver's door that complies with strength requirements imposed Schedule I above will be deemed to comply with the requirement for a window net.

- 1.7 All vehicles that are not **Road Registered** must be issued with a CAMS log book, which must be available for inspection when the vehicle is presented for scrutineering. If a vehicle is **Road Registered**, then the **Registration Papers** for that vehicle must be available for inspection by the Event Secretary and when the vehicle is presented for scrutineering to verify the ownership of that vehicle and that the vehicle is **Road Registered** to permit eligibility for freedoms granted to **Road Registered** vehicles in the Type.
- 1.8 **Clubmans, Kit Cars** and **Replicas** are excluded from this Type.
- 1.9 A Later Model Vehicle is not permitted to use a supercharger or turbocharger unless it was fitted as standard equipment to the model concerned. For the purposes of these Type 3 Regulations only, a Later Model Vehicle is a vehicle of a model manufactured after 1 January, 1986.
- 1.10 A **CAMS Approved Restrictor** must be fitted to all vehicles that use a supercharger or turbocharger. However, if:-
  - (a) If the vehicle IS NOT a Later Model Vehicle, and
  - (b) the supercharger or turbocharger is recognised as standard production for the model of the vehicle, and
  - (c) **EMS Modifications** have not been made, and
  - (d) the supercharger or turbocharger has not been modified in any way, and

- (e) the maximum inlet pressure and engine static compression ratio DOES remain in accordance with the manufacturer's specifications for the vehicle, and
- (f) the swept volume of the vehicle's engine is not varied from standard by more than 2%

a **CAMS Approved Boost Monitor** can be used in lieu of a **CAMS Approved Restrictor**.

- 1.11 All vehicles in the Type must comply with the General Requirements of Automobiles Schedules A & B contained in the CAMS Manual
- 1.12 A maximum capacity of 6000cc shall apply to all vehicles, save where a vehicle has a standard capacity above that limit whereupon it may retain its original capacity plus 2%. Eligibility for vehicles with engine capacity greater than 6000cc is specific to a manufacturer's year/model combination, and the vehicle presented for competition must maintain the manufacturers engine, driveline and chassis/monocoque design specification.

## 2 **Roll Over Protection**

- 2.1 Any vehicle that is not **Road Registered** must be fitted with an approved roll cage.

## 3. **Wheels and Tyres**

- 3.1 Wheels can be altered in accordance with Group 3J Club Cars regulations, or may be altered to any width, provided that the upper part of the wheel (rim flange and tyre flank) when viewed vertically over the wheel hub centre must be housed within the original bodywork when measured vertically. Reforming of the wheel-arch beading against the inside of the mudguard is permitted.
- 3.2 Only **Road Tyres** are permitted to be used. Tyre sizes with respect to width and aspect ratio are free.



- 3.3 At no time prior to the commencement of competition may any tread wear indicator as provided by the manufacturer be exposed. In all areas where there is no indicator the original tread pattern must be clearly visible except on the shoulder of the tyre where excessive wear may occur due to steering and cornering

## CAMS NSW SUPERSPRINT TECHNICAL REGULATIONS

### Type 4 Technical Regulations

(Based on Group 2F - Prodsports Regulations)

#### 1. General

- 1.1 Apart from anything to the contrary specifically contained in these Type 4 Regulations and in the available classes for Type 4 as set out earlier in these Technical Regulations, this Category is identical to Group 2F – Prodsports vehicles as specified in the CAMS Manual.
- 1.2 All vehicles in the Type must comply with the General Requirements of Automobiles Schedules A & B contained in the CAMS Manual
- 1.3 Any vehicle that is classified as a Type 4 vehicle pursuant to these regulations shall be permitted enter in any Class in this Type 4 provided that engine capacity of the vehicle does not exceed the maximum capacity allowable in the Class entered.

#### 2. Safety

- 2.1 Vehicles that are not **Road Registered**:-
  - (a) must be fitted with an approved roll cage, and
  - (b) if the vehicle is a closed vehicle, a safety window net that complies with the requirements set out in Schedule I – Safety Harnesses/Window Nets of the General Requirements for Cars and Drivers contained in the CAMS Manual must be fitted to the driver's door window opening. If the vehicle is derived from series production automobile manufactured after 1970 and retains the unmodified door, hinges and latches of the registrable automobile, then such an automobile fitted with a permanently closed shatterproof window on the driver's door that complies with strength requirements imposed Schedule I above will be deemed to comply with the requirement for a

window net. If a vehicle is fitted with a detachable hardtop, whether supplied or manufactured by the manufacturer of the vehicle or not, and that vehicle would be defined as an Open Automobile in the Definitions-Technical section of the CAMS Manual if it did not have such hardtop, then any such vehicle shall not be required to fit a window net.

### 3. **Log Book**

- 3.1 All vehicles that are not **Road Registered** must be issued with a CAMS log book, which must be available for inspection when the vehicle is presented for scrutineering. If a vehicle is **Road Registered**, then the **Registration Papers** for that vehicle must be available for inspection by the Event Secretary and when the vehicle is presented for scrutineering to verify the ownership of that vehicle and that the vehicle is **Road Registered** to permit eligibility for freedoms granted to **Road Registered** vehicles in the Type.

### 4. **Exclusions**

- 4.1 **Clubmans, Kit Cars** and **Replicas** are excluded from this Type.

### 5. **Tyres**

- 5.1 **Road Tyres** are permitted to be used.

## CAMS NSW SUPERSPRINT TECHNICAL REGULATIONS

### Type 5 Technical Regulations

(Based on Group 3D - Sports Sedan and Groups 2B – Prodsports Regulations)

#### 1. General

- 1.1 This type is divided into two (2) categories with the first of those categories being for vehicles that comply with the Group 3D - Sports Sedan Regulations as detailed in the CAMS Manual and the second for vehicles that comply with the Group 2B - Prodsports Regulations Regulations as detailed in the CAMS Manual with both Groups 3D and 2B being subject only to any allowance or variation that is contained in these Type 5 Regulations. Those two categories are each divided into two classes to the intent that the four (4) classes in this Type 5 shall be as follows:-

Class 5A	Group 3D – Sport Sedans with an engine capacity up to 4,000cc
Class 5B	Group 3D – Sport Sedans with an engine capacity of 4,001cc to 6,000cc. However, any <b>Road Registered</b> vehicle that the NSW Supersprint Panel determines is eligible to compete in this Class that has a standard engine capacity above 6,000cc may retain its original capacity plus 2%.
Class 5C	Group 2B – Prodsports vehicles with an engine capacity up to 4,000cc
Class 5D	Group 2B – Prodsports vehicles with an engine capacity of 4,001cc to 6,000cc. However, any Class 1 Group 2B – Prodsports

vehicle (as defined in the Group 2B – Prodsports regulations) and any **Road Registered** vehicle that the NSW Supersprint Panel determines is eligible to compete in this Class that has a standard engine capacity above 6,000cc may retain its original capacity plus 2%.

- 1.2 All vehicles in the Type must comply with the General Requirements of Automobiles Schedules A & B contained in the CAMS Manual.
- 1.3 Any vehicle that is **Road Registered** shall be eligible to compete in this Type 5 provided that, apart from the fitting of **Race Tyres**, no modifications or alterations are made to the vehicle which would render it ineligible to be **Road Registered**. If the vehicle does not comply with the Group 3D – Sports Sedan regulations or the Group 2B - Prodsports regulations, then it shall compete in the Class determined by the NSW Supersprint Panel. The NSW Supersprint Panel will have regard to the engine capacity of the vehicle and it's relative similarity to the vehicles referred to in the Group 3D – Sports Sedan regulations and the Group 2B - Prodsports regulations in making any such determination.
- 1.4 Any vehicle that is eligible to compete in Type 3 of these Technical Regulations, apart from the fitting of **Race Tyres**, shall be eligible to compete in Classes 5A and 5B of this Type 5 depending on the engine capacity of the vehicle. Any such vehicle will not be required to comply with any restrictions concerning any forced induction used in the vehicle that may be either specified or applicable under the Type 4 regulations of these Technical Regulations or the Group 3J – Improved Production Car regulations contained in the CAMS Manual.
- 1.5 Any vehicle that is eligible to compete in Type 4 of these Technical Regulations, apart from the fitting of **Race Tyres**, shall be eligible to compete in Classes 5C and 5D of this Type 5 depending on the

engine capacity of the vehicle. Any such vehicle will not be required to comply with any restrictions concerning any forced induction used in the vehicle that may be either specified or applicable in the Group 2F – Prodsports regulations contained in the CAMS Manual.

- 1.6 A maximum engine capacity of 6,000cc shall apply to all vehicles competing in Classes 5B and 5D of this Type 5. However, any Road Registered vehicle and any Class 1 Group 2B – Prodsports vehicle, as defined in the Group 2B – Prodsports regulations, that has a standard engine capacity above 6,000cc may retain its original capacity plus 2%.
- 1.7 Provided that it otherwise complies with the requirements for a Group 3D Sports Sedan as defined in the CAMS Manual, a vehicle that is a hatchback, station wagon, utility or a van shall be eligible to compete in Class 5A or Class 5B of this Type 5.
- 1.8 **Clubmans, Kit Cars** and **Replicas** are specifically excluded from this Type

## 2. **Safety**

- 2.1 Vehicles that are not **Road Registered** must be fitted with:-
  - (a) an approved roll cage, and
  - (b) if the vehicle is a closed vehicle, a safety window net that complies with the requirements set out in Schedule I – Safety Harnesses/Window Nets of the General Requirements for Cars and Drivers contained in the CAMS Manual must be fitted to the driver's door window opening. If the vehicle is derived from series production automobile manufactured after 1970 and retains the unmodified door, hinges and latches of the registrable automobile, then such an automobile fitted with a permanently closed shatterproof window on the driver's door that complies with strength requirements imposed Schedule I above will be deemed to comply with the requirement for a

window net. If a vehicle is fitted with a detachable hardtop, whether supplied or manufactured by the manufacturer of the vehicle or not, and that vehicle would be defined as an Open Automobile in the Definitions-Technical section of the CAMS Manual if it did not have such hardtop, then any such vehicle shall not be required to fit a window net.

### 3. **Log Book**

- 3.1 All vehicles that are not **Road Registered** must be issued with a CAMS log book, which must be available for inspection when the vehicle is presented for scrutineering. If a vehicle is **Road Registered**, then the **Registration Papers** for that vehicle must be available for inspection by the Event Secretary and when the vehicle is presented for scrutineering to verify the ownership of that vehicle and that the vehicle is **Road Registered** to permit eligibility for freedoms granted to **Road Registered** vehicles in the Type.

## CAMS NSW SUPERSPRINT TECHNICAL REGULATIONS

### Type 6 (Time Attack) Technical Regulations

#### 1 General

1.1 This type is intended for highly modified mass produced vehicles and is divided into two (2) categories with the first of those categories being for vehicles that comply with Regulation #2 (“Clubsprint Category Regulations”) of these Type 6 Technical Regulations, and the second for vehicles that comply with Regulation #3 (“Open Category Regulations”) of these Type 6 Technical Regulations. The first category, being the one that complies with Regulation #2 (“Clubsprint Category Regulations”), shall be divided into two classes with one class being for naturally aspirated vehicles and the other for forced induction vehicles. The second category, being the one that complies with Regulation #3 (“Open Category Regulations”), shall also be divided into two classes with one class being for **Two Wheel Drive Vehicles** and the other for **Four Wheel Drive Vehicles**.

1.2 All vehicles in this Type: -

- (a) must be an **Eligible Vehicle** with the steering action on the front wheels only, unless rear wheel steering was fitted to the vehicle as standard, in which case the original system may remain, and
- (b) must be either a **Two Wheel Drive Vehicle** or a **Four Wheel Drive Vehicle**, and
- (c) must comply with either the Clubsprint Category Regulations or the Open Category Regulations set out in Regulations Nos. 2 and 3 of these Type 6 Technical Regulations.



- 1.3 Specifically excluded from this Type are:-
- (a) Open wheel vehicles, **Clubmans**, **Kit Cars** and **Replicas** and/or
  - (b) any vehicle with more than one engine.
- 1.4 All vehicles that are not **Road Registered** must be issued with a CAMS log book, which must be available for inspection when the vehicle is presented for scrutineering. If a vehicle is **Road Registered**, then the **Registration Papers** for that vehicle must be available for inspection by the Event Secretary and when the vehicle is presented for scrutineering to verify both the ownership of that vehicle and that the vehicle is **Road Registered** to permit eligibility for freedoms granted to **Road Registered** vehicles in the Type.
- 1.5 Notwithstanding any requirement to the contrary contained in the Yokohama World Time Attack Challenge Technical Regulations for all Vehicles, **Road Tyres** are permitted.
- 1.6 Vehicles that are not **Road Registered** must be fitted with: -
- a) an approved roll cage, and
  - b) if the vehicle is a closed vehicle, a safety window net that complies with the requirements set out in Schedule I – Safety Harnesses/Window Nets of the General Requirements for Cars and Drivers contained in the CAMS Manual must be fitted to the driver's door window opening. If the vehicle is derived from series production automobile manufactured after 1970 and retains the unmodified door, hinges and latches of the registrable automobile, then such an automobile fitted with a permanently closed shatterproof window on the driver's door that complies with strength requirements imposed Schedule I above will be deemed to comply with the requirement for a window net.

- 1.7 All vehicles in the Type must comply with the General Requirements of Automobiles Schedules A & B contained in the CAMS Manual.
- 1.8 Notwithstanding anything contained the Yokohama World Time Attack Challenge Technical Regulations or elsewhere in these Type 6 Technical Regulations, Road Registered vehicles shall not be required to fit any roll over protection structure or any safety harness equipment in excess of that is required to be fitted to vehicles in Type 1 of these Technical Regulations.

## 2. **Clubsprint Category Regulations**

### 2.1 All vehicles :-

- (a) must be an **Eligible Vehicle** and
- (b) must be **Road Registered** and
- (c) can only be modified as permitted in the Clubsprint competition described in the Yokohama World Time Attack Challenge Technical Regulations as may be current from time to time.

## 3. **Open Category Regulations**

### 3.1 All vehicles must

- (a) be an **Eligible Vehicle** and
- (b) can only be modified as permitted in the Open competition described in the Yokohama World Time Attack Challenge Technical Regulations as may be current from time to time.

## CAMS NSW SUPERSPRINT TECHNICAL REGULATIONS

### Type 7 Technical Regulations

#### 1. General

1.1 This category is intended for:

- (a) all **Clubmans**, **Kit Cars** and **Replicas** (whether **Road Registered** or not),
- (b) **Racing Cars**,
- (c) **Sports Racing Cars**,
- (d) **Sports Racers**, and
- (e) such other unregistered vehicles, without limitation, built specifically for racing and/or speed events that the NSW Supersprint Panel may determine, in its absolute discretion, are eligible to compete as Type 7 vehicles.

1.2 Go Karts, other vehicles of a similar size and structure and any vehicle that the NSW Supersprint Panel determines to be unsafe for visibility reasons to compete in a multi car event are specifically excluded from this Type.

1.3 All vehicles in the Type must comply with the General Requirements of Automobiles Schedules A & B contained in the CAMS Manual AND, with the exception of any vehicle determined by the NSW Supersprint Panel to be eligible to compete as a Type 7 vehicle pursuant to Type 7 Vehicle Regulation 1.1.e) above :

- (a) **Racing Cars** must conform to the 1<sup>st</sup> Category – Racing Cars specifications contained in the CAMS Manual and to one of the Formulas from time to time that are specified in the 1<sup>st</sup> Category: Racing Cars as referred to in the CAMS Manual and as may be applicable to the vehicle,

- (b) **Sports Racing Cars** must conform to the specifications contained in one of the Groups from time to time that are specified in the 2<sup>nd</sup> Category: Sports Cars as referred to in the CAMS Manual and as may be applicable to the vehicle,
  - (c) **Sports Racers** must conform to the specifications contained in Group 6SR: Sports Racers specified in the 6<sup>th</sup> Category: Other Vehicles as referred to in the CAMS Manual.
- 1.4 Notwithstanding Regulation 1.2 of these Type 7 Regulations, all vehicles in this Type with an engine displacement of 3,529cc or less are permitted to install a supercharger or a turbocharger but if installed in a Formula Vee, Formula Ford 1600 or a Formula Ford, the vehicle will no longer be eligible to compete in Class 7A or 7B (as may be applicable) and it must compete in Class 7C or Class 7D as may be determined by the engine capacity.
- 1.5 Any vehicle that is classified as either a Type 7 Class A or B vehicle pursuant to these regulations shall be eligible to be entered in any supersprint as a Type 7 Class C or D vehicle provided that engine capacity of the vehicle does not exceed the maximum capacity allowable in the Class entered.

## 2. **Log Book**

- 2.1 All vehicles that are not **Road Registered** must be issued with a CAMS log book, which must be available for inspection when the vehicle is presented for scrutineering. If a vehicle is **Road Registered**, then the **Registration Papers** for that vehicle must be available for inspection by the Event Secretary and when the vehicle is presented for scrutineering to verify the ownership of that vehicle and that the vehicle is **Road Registered** to permit eligibility for freedoms granted to **Road Registered** vehicles in the Type.

### **3.1 Tyres**

- 3.1 Subject to the exclusions and matters contained in Clauses 3.2 and 3.3 of these Type 7 regulations, all vehicles are permitted to use Race Tyres in this Type 7..
- 3.2 Formula Vees, Formula Ford 1600s and Formula Fords must use either the control tyres specified in the description of a Formula Vee, Formula Ford 1600 or a Formula Ford (as applicable) in the CAMS Manual or Road Tyres to remain eligible to compete as a Formula Vee, a Formula Ford 1600 or a Formula Ford and be eligible for Classes 7A and 7B. However, any vehicle that otherwise conforms as a Formula Vee, a Formula Ford 1600 or a Formula Ford shall be permitted to employ or use Race Tyres but if it does so it shall no longer be classified as a Formula Vee, a Formula Ford 1600 or a Formula Ford but shall be classified as a Class 7C vehicle.
- 3.3 Vehicles competing in Class 7A of these Type 7 regulations are not permitted to use Race Tyres.