

## 2.0 Litre Endurance Regulations - Effective for the 2017/ 2018 Season.

### 1 - GENERAL DESCRIPTION

- 1 Factory built race-cars are NOT eligible, this includes Group A, DTM, 2.0L SuperTourer, WTCC etc. By factory this refers to cars or kits supplied by BMW Motorsport or recognized works teams. NZ built cars (including NZ touring cars) are eligible to run within this class. Entry to the BMW Race Series (BRDS) is by invitation only, at the discretion of the Committee.
- 1.1 All entrants must be current financial members of the BMW Car Club of NZ.
- 1.2 Presentation of cars must be to a high standard and the organizers reserve the right to refuse entry to cars deemed not up to standard. This requirement also applies to vehicles previously accepted for the BRDS where their condition has deteriorated to the point where this is not of an acceptable standard.
- 1.3 The following regulations provide a basic outline of the technical requirements for cars running in the 2.0 Litre. **NB: Drivers planning to purchase or modify a car to race in the BMW Race Driver Series are strongly advised to contact the BMW Race Driver Series Committee via e-mail: [bmwraceseries@hotmail.com](mailto:bmwraceseries@hotmail.com) for confirmation of the car's eligibility before committing to the modification/purchase.**
- 1.4 The BRDS Committee and its appointed agents will be judge(s) of fact regarding general vehicle eligibility for the Series and regarding any specific technical details of those cars.

### 2 - SAFETY REQUIREMENTS

All vehicles are required to adhere to all MotorSport New Zealand (MSNZ) regulations in relation to Driver and Vehicle Safety – refer to MSNZ Manual no. 35, Appendix Two, Schedule A, available in hard copy or on-line: [www.motorsport.org.nz/Regs/manual.htm#Manual35](http://www.motorsport.org.nz/Regs/manual.htm#Manual35). This includes any amendments or subsequent versions issued by MSNZ. The required Safety Equipment includes:

- 2.1 An MSNZ approved competition seat designed for use with four-point, five-point or six-point harness; with appropriate mountings; must be fitted according to App Two, Sch A, Section 4.7.
- 2.2 A suitable MSNZ approved harness of either four-point, five-point or six-point mounting as detailed in App Two, Sch A, and Section 4.4.
- 2.3 An MSNZ approved hand held fire extinguisher is mandatory as per App Two, Sch A, Section 4.8.
- 2.4 A multi-point roll cage as per App Two, Sch A, Section 4.6 with side intrusion bars is mandatory. Alternative roll cages are acceptable, provided they meet the following criteria:-
  - a) The roll cage design, construction and installation must satisfy all of MSNZ regulations.
  - b) Triangulation between the roll cage front legs and front strut towers is permitted.
  - c) Roll cage padding must be fitted as required in App Two, Sch A section 4.6 sub section 6.
- 2.5 Glass headlamps should be covered with protective tape, in accordance with any relevant MSNZ requirements.
- 2.6 All cars must have a current log book.

## 2.7 **Forward Head Restraints (FHR):** These are considered mandatory

- A) All Drivers must wear FHR during all qualifying and races that are part of the BMW Race Driver series.

Failure to do so may result in penalties (Points deduction) or even Disqualification.

- B) FHR Devices must:

1. Comply with an approved standard, and
2. Be a good fit on the wearer, and
3. Be of the correct type/angle for the vehicle being driven, and
4. Be in good condition, free of cracks or signs of damage, and
5. Not be modified, except as specifically permitted by the manufacturer, and
6. Only be used with helmets bearing one(1) of the following standard markings:

- **FIA** - 8860 & 8858,
- **Snell** - SAH 2010, SA 2010, SA 2005 & SA 2000,
- **British Standard** - BS 6658-85 A/FR, and
- **SFI** - Spec 31.1/2005 & Spec 41.1/2005.

- C) **Approved Forward Head Restraint Standards:** Examples of the following standards labels are detailed in Part Two Article 4 of this Schedule.

- **FIA** - FIA8858-2002
- **FIA** - FIA8858-2010
- **SFI** - SFI Spec 38.1

Examples of acceptable FHR device brands (not limited to): HANS type, NexGen, Simpson Hybrid, Leatt

Examples of non-acceptable devices: Padded collars.

To be fitted and worn in accordance with Schedule A in the MSNZ guidelines

## **3 – TECHNICAL / VEHICLE ELIGIBILITY**

- 3.1 This class is generally open to **any model BMW car fitted with a BMW engine** (Regulated by capacity)
- 3.2 Maximum engine capacity for this class is 2000cc  
The Maximum capacity calculation for this class includes an allowance for a factory over-bore of up to +0.5mm only.
- 3.3 Left or Right-hand drive vehicles are eligible including cars that have been converted.
- 3.4 **Engines:** Must be a production BMW cylinder block and head casting, all other components are free.
- 3.5 It is permissible to move the engine within the factory engine bay only. It is not permissible to remove, cut or modify the factory firewall/bulkhead in order to move the engine rearwards in the chassis.
- 3.6 **Chassis:** Original unit construction body shells must be used. No space-framed or semi space-framed cars will be allowed. The original floor-pan between the firewall and rear bulkhead (behind the rear seat) must remain as per the manufacturer's original specifications. Save for the fitment of the roll protection, pedal box or exhaust system, further modifications to this area of the floor-pan can only be made with the written permission of the BRDS Committee.

- 3.7 **Bodywork:** Outer body panels may be replaced with items of a different design or material (including composites) to that used on the original. This includes the addition of front or rear spoilers, wings, splitters, wheel arch extensions and/or after-market body kits.
- 3.8 **Drive train:** Gearboxes must be of BMW original equipment manufacture, but are free in terms of the number of gears and ratios, however gearboxes with a sequential shift type mechanism are not eligible within this class. Differentials are free.
- 3.9 **Suspension:** As long as the original configuration is retained (eg McPherson strut, trailing arm) the suspension is free in terms of design and materials used.
- 3.10 **Brakes:** There is no restriction on type and materials.
- 3.11 **Wheels:** Rim widths can be no more than 10 inches, but there are no other restrictions in terms of wheel diameter, materials or construction type.
- 3.12 **Tyres:** All cars MUST run on BMW Race Driver Series Committee approved DOT rated tyres. In addition to complying with a DOT standard, Tyres must also be New Zealand warrantable tread patterns. Tyres are also required to have a measurable tread depth (excluding any tie bar or tread depth indicator strips) around the whole circumference of the tyre, and across at least 75% of the tyres tread width. FOR CLARIFICATION: Tyres also marked “NOT FOR HIGHWAY USE” or “FOR RACING PURPOSES ONLY” are excluded from use. (If you are planning to run a new design / brand of tyre please e-mail the Race Series Committee at [bmwraceseries@hotmail.com](mailto:bmwraceseries@hotmail.com) for confirmation of acceptance).
- 3.13 **Weight:** Minimum Post race weight including driver for all competing vehicles is 1040kg. Drivers who do not present their cars for weigh-in after qualifying will receive point penalties or be disqualified. All cars must be weighed after each race unless instructed otherwise by a BMW Race Driver Series Official.
- 3.14 **Fuel:** There are no restrictions on the fuel used as long as the safety and technical requirements of MSNZ and the meeting organisers are met.

#### **4 – SIGNAGE**

- 4.1 **Series Sponsor Decals**– The following decals are mandatory and must be fitted as supplied to race cars at all BMW Race Driver Series events. (see Appendix 1)
- BMW Race Series number box – both sides, front door, within 40mm of front edge of door.
  - Windscreen Banner –top of front windscreen, using a minimum 100mm of the supplied banner, including the Castrol logos, and up to the full width of the banner. (approx 200mm)
  - Bonnet Decal (580 x 135mm) – centreline of bonnet, no more than 75 mm from BMW bonnet badge and oriented so that the writing is the correct way up, as viewed from in front of the car.
- 4.2 **Other BMW Race Driver Series Signage** – The following signage, to be supplied by the competitor unless stated otherwise, must be fitted to race cars at all BMW Race Driver Series events.
- Race Number (if not already printed onto number box) Both sides, inside number box. Must comply with MSNZ requirements in terms of size, colour, font, etc. Minimum of 280mm high, stroke of 50mm, solid black (on the supplied white background), font to be Helvetica, or similar. See Manual 35, Appendix Two, Schedule A, Section 6.2 for clarification, Helvetica font is shown.
  - Driver Name – The driver surname (at least), on both rear side windows, close to lower edge, minimum of 80mm high, 10mm stroke, white or fluoro yellow/green in Helvetica or similar font.
  - Screen Numbers – both front and rear screens, passenger side upper corner, minimum of 150mm high, 20mm stroke, white or fluoro yellow/green in Helvetica or similar font.



- d) Novice Markings – The FIA Mandated Novice sticker must be run in a visible location on the rear of the car. These will be supplied to the competitor by the race series.  
Regardless of previous race experience in other classes, drivers who are new to the BMW Race Driver Series must display this Sticker for a whole season.

4.3 **Personal Signage** – The following restrictions apply to any personal signage or sponsorship carried on cars competing in the BMW Race Driver Series.

- a) Front Screen – This area is reserved exclusively for the Series sponsor (TBA) and apart from screen numbers (see Appendix 1) no other signage can be carried on the front screen. If the supplied screen banner is not deep enough, cars are permitted to have an additional screen band fitted, but this must be a plain colour, with no lettering or graphics, and must be fitted below the complete screen banner.
- b) Rear Screen – Personal advertising may be fitted to the rear screen, as long as it complies with all MSNZ regulations for vision and safety and to WOF regulations, if applicable.
- c) Number Boxes – No signage at all shall be fitted to the front doors in the area immediately above or below the official race number box, or within 50mm either side of the box. It is permissible however to carry personal signage anywhere on the sills provide it complies with all other regulations regarding signage.
- d) Competitive Signage – No signage for any brands that compete with any of the series sponsors can be carried on the front section of the car - defined as being all panels “forward of a line through the rear edge of the number boxes on each door”. The Committee decisions on any conflicting advertising are final, as are any decisions to introduce new/additional series sponsors.

## Appendix 1– Vehicle Livery (Refer Section 4)

### a) Race Number Box

To be located within 40mm of the front of the door panel.



### b) Windscreen banner

May be deeper than 100mm, but plain colour only

### c) Front screen number\*

Passenger side, white or fluoro yellow/green



### d) (TBA) bonnet decal

Centred, no more than 75mm from bonnet badge



### e) Rear screen number\*

Passenger side, white or fluoro yellow/green

### f) Novice Sticker\*

Drivers side top of rear screen.



### h) Driver Name\*

Both sides, bottom of rear side window



\* = Items to be supplied by Driver/entrant