



2021 Aussie Racing Cars Series Sporting and Technical Regulations



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A capitalised and italicised word in this document is defined in the *NCR* or the Technical Appendix, Definitions - Technical.

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

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2021 Aussie Racing Cars Series

Sporting Regulations

1 TITLE and JURISDICTION

1.1 Title

This *Series* will only be known as and referred to as the “Battery World Aussie Racing Cars Super Series”.

1.2 Authority / Jurisdiction

- (a) Each *Event* in the 2021 Aussie Racing Cars Series (*Series*) will be held in accordance with the FIA International Sporting Code including Appendices; the National Competition Rules (*NCR*) and Circuit Race Standing Regulations (CRSR) of *Motorsport Australia*; the Sporting and Technical Regulations issued for this *Series* by *Motorsport Australia*; *Supplementary Regulations* issued by the *Organiser* for each round of the *Series*; Bulletins issued by the Stewards and any Driver Briefing Notes and instructions issued by the Race Director or the Clerk of the Course at an *Event* and the individual contract that a *Competitor* holds with ARC (the Category Agreements).
- (b) This *Series* has been sanctioned by *Motorsport Australia* as an Authorised Series.
- (c) The Category and *Series* owner is Aussie Racing Cars Pty Ltd (ABN 50 094 079 071)
Contact Details: Ph. 07 5519 3999
Email. race@aussieracingcars.com.au
- (d) *Motorsport Australia* confirms the rights of Aussie Racing Cars Pty Ltd (ARC) as owners of the category and confirms ARC's position as the Category Manager (CM) for this *Series*.

2 ADMINISTRATION

2.1 Personnel

- (a) The following personnel have been appointed to the *Series* by *Motorsport Australia* and/or the CM and have the authority to administer the various aspects of these regulations as detailed in the CRSR.
 - (i) Race Director (RD) Ian Mayberry
 - (ii) Technical Delegate (TD) Phillip Wilkinson
 - (iii) Category Administrator (CA) Brad Ward
- (b) All enquiries about any aspect of the Category or *Series* must be directed to the CM.

3 COMPETITOR ELIGIBILITY

- (a) To be eligible to compete in the *Series*, each *Competitor* must hold a current *Motorsport Australia* Competitor Licence and a current Category and Car Ownership Agreement “the Category Agreement” with ARC and the ARC Code of Conduct Agreement “ARC Code of Conduct”.
- (b) Each *Competitor's* eligibility for the *Series* is contingent on compliance of the *Competitor* (*Automobile* owner) with the terms of their Category Agreement and the ARC Code of Conduct. If the Category Agreement is terminated or withdrawn for whatever reason or the ARC Code of Conduct is breached, the *Competitor's* entry in the *Series* is also subject to withdrawal at the CM's ultimate discretion.

4 AUTOMOBILE ELIGIBILITY

Each *Automobile* must comply with the requirements of the 2021 Aussie Racing Cars Series Technical Regulations and be registered with the CM to be eligible to compete in the *Series*.

4.1 Replacement *Automobile*

An *Automobile* that has entered to compete at that round of the *Series* may only be replaced with the express permission of the CM.

5 DRIVER ELIGIBILITY

- (a) To be eligible to compete in the *Series*, each *Driver* must be a minimum of 15 years of age and hold a current Motorsport Australia Circuit Licence with a Provisional endorsement or higher and be registered with the CM.
- (b) To be eligible to compete in any round of the *Series* conducted at Mt Panorama, Bathurst, a *Driver* must hold a current Motorsport Australia Circuit Licence without a Provisional endorsement or higher.

5.1 Team Classification

- (a) Prior to entering the *Series*, a *Competitor* may register with the CM as a Two Driver Team which enables 2 *Drivers* to be awarded *Series* points for competing in the same *Automobile* under the following conditions:
 - (i) The names of the *Drivers* must be registered with the CM prior to the scheduled commencement of the *Series*.
 - (ii) Only 1 registered *Driver* may compete in the *Automobile* at each round.
 - (iii) The *Driver* for each round must be nominated to the CM prior to the commencement of each round.
 - (iv) *Series* points will be awarded to each registered *Driver* based on their *Automobile's* race results (as per Reg 11.2) regardless of which *Driver* is competing in the *Automobile* at a particular round.
 - (v) A *Competitor* that fails to comply with the above conditions will have the Two Driver Team classification removed by the CM and *Series* points will be reallocated only to the *Driver* who competed at the relevant round.

5.2 Substitute Driver

A *Competitor* may nominate a suitably qualified substitute *Driver* who may be permitted to compete in the remainder of the *Event* subject to the approval of the CM and the Stewards.

6 SERIES ROUNDS / REGISTRATION

- (a) The *Series* will be conducted over 6 rounds as detailed in the *Series* Calendar below.
- (b) Each race conducted as a part of the *Series* will count in determining the final results.
- (c) Each *Competitor* participating in all or part of the *Series* is required to register their entry with the CM and to pay the relevant registration fee.

7 SERIES CALENDAR

Round	Date	Circuit
1	26 – 28 February	Mount Panorama
2	10 – 11 April	Symmons Plains
3	1 – 2 May	Sydney Motorsport Park
4	25 – 27 June	Morgan Park
5	17 – 19 September	Sandown
6	3 – 5 December	Surfers Paradise

Note: The above calendar is subject to change dependant on any restriction that may be imposed due to the COVID-19 pandemic. The CM will advise each *Competitor* of any change.

8 ROUND FORMAT

The number, length and format of *Track* sessions will ultimately be negotiated between the CM and the *Organiser* prior to a round of the *Series* and will be advised in the *Supplementary Regulations* issued for an *Event*.

8.1 Round Format

(a) Generally, the format for each round of the *Series* will be as follows:

- (i) Practice - 1 x 20-minute practice session.
- (ii) Qualifying - 1 x 20-minute qualifying session.
- (iii) Races - 3 or 4 races (number and length to be negotiated with the *Organiser*).

8.2 Variations to Timetable

The timetable may be varied at any time due to exceptional circumstances only with the prior approval of the Stewards.

9 GRID DETERMINATION

9.1 Races 1 and 2 – (Race 1 when there are 3 races scheduled for a round of the *Series*).

The grid for Races 1 and 2 will be determined as detailed in the CRSR – Progressive Grid.

9.2 Race 3 – (Race 2 when there are 3 races scheduled for a round of the *Series*).

(a) The grid for Race 3 will be determined by either of the following methods on agreement at each round between the RD and CM.

- (i) As detailed in the CRSR – Progressive Grid; or
- (ii) As detailed in the CRSR – Progressive Grid except that a maximum of the top 15 finishing positions from Race 2 will be reversed. The actual number of positions to be reversed will be determined by the RD and CM at each round.

9.3 Race 4 – (Race 3 when there are 3 races scheduled for a round of the *Series*).

The grid for Race 4 will be determined by the total number of outright points achieved by each *Driver* in Races 1, 2 and 3. The *Driver* with the highest total number of points at the conclusion of Race 3 will be placed in grid position 1, the *Driver* with the second highest total number of points will be placed in grid position 2, and so on.

The grid positions for any *Drivers* tied on points at the conclusion of Race 3 will be determined by comparing the results of each of the tied *Drivers* in Race 3 of that round. The higher grid position will be awarded to the higher placed finisher in Race 3.

10 START PROCEDURE

The *Start* procedure for each race will be as detailed in the CRSR – Non-Championship Start – Standing start.

11 AWARDS and POINTSCORE

11.1 Prizes and Trophies

Prizes, trophies and awards will be as determined by the CM and will be advised to each *Competitor*.

11.2 Series Pointscore

- (a) Points will be awarded to each *Driver* (both finishers and non-finishers) for each race in the *Series* based on their position as listed on the race results as follows:

Position	Points	Position	Points	Position	Points	Position	Points
1 st	51	11 th	41	21 st	31	31 st	21
2 nd	50	12 th	40	22 nd	30	32 nd	20
3 rd	49	13 th	39	23 rd	29	33 rd	19
4 th	48	14 th	38	24 th	28	34 th	18
5 th	47	15 th	37	25 th	27	35 th	17
6 th	46	16 th	36	26 th	26	36 th	16
7 th	45	17 th	35	27 th	25	37 th	15
8 th	44	18 th	34	28 th	24	38 th	14
9 th	43	19 th	33	29 th	23	39 th	13
10 th	42	20 th	32	30 th	22	40 th	12

- (b) The final race of each round of the *Series* will be awarded double the points value as detailed above.
- (c) The results for each round of the *Series* will be determined by the number of points scored by each *Driver* at that round.
- (d) In the event of a tie at the end of any round of the *Series*, the final positions for that round will be determined by comparing the results of each of the tied *Drivers* in the final race of that round. The higher place in the round results will be awarded to the *Driver* with the higher position in the final race.
- (e) At the conclusion of each round of the *Series*, *Series* points will be awarded to each *Driver* based on the results of that round of the *Series*. *Series* points will be awarded as detailed in the table in 11.2(a).
- (f) The *Driver* gaining the highest *Series* points total over the 6 rounds will be declared the winner of the *Series*.
- (g) In the event of a tie at the end of the *Series*, final positions will be determined by comparing the race results achieved by each tied *Driver*, with the *Driver* with the highest number of first places being awarded the higher *Series* position. If at this stage a tie still exists, it will be resolved by comparing the number of second, third or fourth places (and so on) achieved by each tied *Driver* until each position has been determined.

11.3 Masters Cup

- (a) The Masters Cup will be open to any *Driver* who competes in a 1940 Ford or an FJ Holden bodied *Automobile* or is over the age of 35 years.
- (b) Points will be awarded for the Masters Cup to each eligible *Driver* (both finishers and non-finishers) for each race in the *Series* based on their position relative to other eligible *Drivers* as listed on the race results as follows:

Position	Points	Position	Points
1 st	25	9 th	7
2 nd	20	10 th	6
3 rd	16	11 th	5
4 th	13	12 th	4
5 th	11	13 th	3
6 th	10	14 th	2
7 th	9	15 th and over	1
8 th	8		

- (c) The results for the Masters Cup at each round of the *Series* will be determined by the number of points scored by each eligible *Driver* at that round.
- (d) At the conclusion of each round of the *Series*, Masters Cup *Series* points will be awarded to each eligible *Driver* based on the results for the Masters Cup at that round of the *Series*. Masters Cup *Series* points will be awarded as detailed in the table in 11.3(b).
- (e) The *Driver* gaining the highest Masters Cup *Series* points total over the 6 rounds will be declared the winner of the Masters Cup.

11.4 Gold Cup

- (a) The Gold Cup will be open to any *Driver* who is over the age of 45 years.
- (b) Points as detailed in the table in 11.3(b) will be awarded for the Gold Cup to each eligible *Driver* (both finishers and non-finishers) for each race in the *Series* based on their position relative to other eligible *Drivers* as listed on the race results.
- (c) The results for the Gold Cup at each round of the *Series* will be determined by the number of points scored by each eligible *Driver* at that round.
- (d) At the conclusion of each round of the *Series*, Gold Cup *Series* points will be awarded to each eligible *Driver* based on the results for the Gold Cup at that round of the *Series*. Gold Cup *Series* points will be awarded as detailed in the table in 11.3(b).
- (e) The *Driver* gaining the highest Gold Cup *Series* points total over the 6 rounds will be declared the winner of the Gold Cup.

11.5 Penalty Points

Any loss of *Series* points imposed as a penalty must be deducted from the *Series* points total at the end of the *Series* prior to determining final positions for the *Series*. These points must also be deducted prior to determining final positions for any other award in connection with the *Series* (e.g. Masters Cup, Gold Cup).

12 EVENT OPERATIONS

12.1 Series Registration and Entry

- (a) The *Series* will operate under the Motorsport Australia Series Registration and Entry Process.
- (b) Series Registration and Entry Forms will be available from the CM who will submit an official entry list to the Secretary of the Event.
- (c) The Secretary of the Event will confirm that each entered *Competitor* and *Driver* hold the appropriate licence by using the *Motorsport Australia* on-line licence checker.
- (d) The CM will also conduct document checking to confirm *Licence*, log book, Category Agreement and Code of Conduct details prior to each *Event*.

12.2 Drivers Briefing

- (a) Each *Driver* must attend the compulsory *Drivers'* briefing.
- (b) The time and location of this briefing will be detailed in the *Supplementary Regulations* for the *Event*.
- (c) The attendance sheet must be signed by the *Driver* to confirm attendance.
- (d) Other compulsory briefings may be convened as required and will be advised to each *Competitor* accordingly.

12.3 Parc Fermé

- (a) The TD will determine the dates and times for post session or post race *Parc Fermé* to occur.
- (b) When advise by the TD:
 - (i) Each *Automobile*, including those remaining in pit lane, must proceed directly to the designated *Parc Fermé* area via the most direct route (or as directed by the TD) at the conclusion of qualifying, without returning to pit or paddock areas and without interference from any third party (other than an Official).
 - (ii) Each *Automobile* completing each race must proceed directly to the designated *Parc Fermé* area (or as directed by the TD) at the conclusion of the race, without returning to pit or paddock areas and without interference from any third party (other than an Official).
- (c) An *Automobile* may not be removed from *Parc Fermé* except with the express permission of the TD.

12.4 Practice

The order in which each *Automobile* must proceed onto the *Track* at the commencement of each practice session will be determined by the CM in consultation with the TD and advised to each *Competitor* by the TD.

12.5 Qualifying

- (a) During qualifying, an *Automobile* may not return to the paddock/garage area without the express permission of the TD.
- (b) If an *Automobile* exits pit lane to the paddock/garage area during qualifying it will be prohibited to rejoin that session.
- (c) The order in which each *Automobile* must proceed onto the *Track* at the commencement of each qualifying session will be determined by the CM in consultation with the TD and advised to each *Competitor* by the TD.

12.6 Pit Lane

Each pit crew member is required to sign a Pit Lane Indemnity Form prior to the first *Track* session and to display identification as and if required by the *Organiser*.

12.7 Removal of *Automobiles* from the *Circuit*

Following the commencement of the first qualifying session, it is prohibited to remove any *Automobile* from the *Circuit* prior to the release of all *Automobiles* from the *Parc Fermé* established following the final race of that round of the *Series* without the prior express written approval of the TD.

12.8 Safety Car

- (a) The Safety Car will be utilised as detailed in the CRSR except as follows:

When the Safety Car is deployed, each *Automobile* must form up behind the Safety Car in race order in a 2 x 2 formation with the race leader on the pole position side of the *Track*. When the Safety Car withdraws, this formation must be maintained, the leading *Automobile* must maintain the speed of the Safety Car before it withdrew and each *Automobile* must remain within 3 *Automobile* lengths of the *Automobile* in front until it has crossed the *Control Line*.

- (b) Any variation to this procedure will be advised at the *Driver's* Briefing prior to each round.

13 TYRES

- (a) Each *Automobile* must be fitted with Kumho V700 205/60 R13 tyres only at all times during each round of the *Series*.
- (b) Each *Automobile* must be fitted with marked tyres only during each qualifying session and race at each round of the *Series*.
- (c) Unless approved by the TD, each marked tyre must be a new, unused tyre purchased and fitted by the Kumho Tyre dealer (nominated by the CM) at the round at which the tyre will be used.
- (d) There is no limit to the number of tyres that can be marked for an *Automobile* at a round.
- (e) The TD (or their nominee) will mark a minimum of 4 tyres for each *Automobile* prior to the first qualifying session at each round.
- (f) It is the responsibility of each *Competitor* to ensure that only tyres marked for their *Automobile* for a particular round are fitted to that *Automobile* at any time during each qualifying session and race at that round.
- (g) A marked tyre damaged during a qualifying session or race may be replaced by a used tyre of similar wear at the discretion of the TD.
- (h) An unmarked, new or used tyre or previously marked tyre from another round may be used during any practice session. A tyre marked for a round is prohibited to be used during any practice session at that round.
- (i) With the exception of the shoulders of a tyre, at no time prior to the commencement of any race, practice or qualifying session may any tread wear indicator be exposed.
- (j) Tyres must only be inflated with air.
- (k) With the exception of wear resulting from normal usage, each tyre must remain unmodified.
- (l) The removal of tyre "build up" from any tyre by any means, other than driving the *Automobile*, is prohibited.
- (m) The use of any tyre heating, heat retention device or chemical treatment is prohibited.

Please Note: The TD will be sole arbiter with regard to the interpretation and application of these tyre regulations. Any decision made by the TD in this regard will not be the subject of any protest or appeal.

14 FUEL

For the duration of any *Event*, each *Competitor* must only use fuel that complies with the definition of Commercial Fuel as defined in the *Manual*.

Please note: With the exception of ambient atmospheric air and the specified fuel, no other substance may be added to the intake charge of the engine.

15 AUTOMOBILE MARKINGS

15.1 Automobile Markings and Series identification

In addition to the requirements detailed below, each *Automobile* must comply with Technical Appendix, Schedule K of the *Manual*.

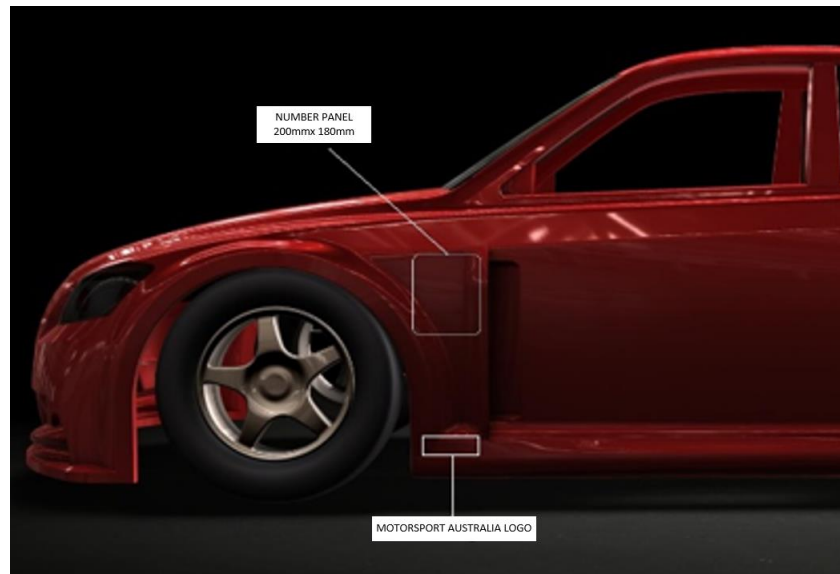
15.2 Sponsor Signage

- Any *Automobile* may be required to carry such sponsor signage as requested by the CM from time to time.
- Unless otherwise directed in writing by the CM, the following advertising space/properties are reserved for the exclusive use of the CM to promote *Series* partners and sponsors. At any time during the duration of the *Series* (i.e. from 26 February 2021 to 5 December 2021) any *Automobile* registered for the *Series* or individual round/s of the *Series* must ensure that the applicable brand/logo as listed below is fitted to the *Automobile* at all times

Location	Brand/logo
Front bumper (centre)	
Front bumper (each side)	
Front windscreen banner	
Rear windscreen banner	As required by CM
Directly above windscreen on roof	
A-pillar	

15.3 Competition Number

- The CM will maintain a register of all competition numbers and these are the only competition numbers that are permitted to be used in the *Series*.
- Each competition number must be affixed to each *Automobile* as detailed below:
 - Roof number** – the number must be 200 mm high on a disk 400 mm in diameter placed in the centre of the roof to be read from the front.
 - Side numbers** – The number must be a minimum 180 mm high on a background with a minimum height of 200 mm. The background width must be at least 20 mm wider than the centralised number. The number must be located on a predominately flat area as close as is practicable in the area adjacent to the base of the A pillar as per the diagram shown below.



- (iii) **Motorsport Australia Logo** - To be positioned as per the diagram shown above.
- (iii) **Bonnet Number** - The use of a bonnet number is optional.
- (iv) **Front screen number and *Driver's* name** – The use of a front screen number is mandatory and the *Driver's* name is optional. The number must be 35 mm high in fluoro yellow and be positioned on the right hand side of the windscreen 10 mm below the top black out strip. The *Driver's* name, if used, must be 18 mm high in fluoro yellow centralised below the number.
- (v) **Rear screen number and *Driver's* name** – The use of a rear screen number and *Driver's* name are optional. If used, the dimensions and colour must be as per the front screen but positioned on the lower edge in the centre.

16 IN-CAR CAMERAS

- (a) In-car cameras are permitted, subject to their installation being approved by the Chief Scrutineer.
- (b) If an in-car camera is fitted it must be switched on and functioning for the entirety of any *Track* session.
- (c) A *Competitor* must immediately provide any in-car camera storage device to the RD on request.

17 TESTING RESTRICTIONS

At any time during the period commencing 8 weeks prior to the first round of the *Series* until the *Series* concludes, any *Competitor* registered for the *Series* must notify the CM prior to undertaking any testing or competing at any *Event* other than a round of the *Series* This notification must be on the official notification form, Attachment 1 of these regulations.



ATTACHMENT 1

AUSSIE RACING CARS

Application to Test or Practice

In accordance with 2021 Aussie Racing Cars Series Sporting Regulations Article 17 Testing Restrictions.

Team / Competitor: _____

Driver's name: _____

Ph No _____ Fax No _____

Automobile: _____

Competition Number: _____

Venue where testing/practice will be undertaken: _____

Date of proposed practice/test _____

Please note: This form must be received 3 business days prior to date of proposed practice/test.

Office use

Received _____ Date _____

Signed _____

2021 Aussie Racing Cars Series

Technical Regulations

1 GENERAL

- (a) Aussie Racing Cars are manufactured and supplied by Aussie Racing Cars Pty Ltd (Manufacturer).
Contact Details: Aussie Racing Cars Pty Ltd
Mob. 0404 052 878
Email. race@aussieracingcars.com.au
- (b) Each *Automobile* must remain in compliance with these Technical Regulations at all times during each round of the *Series*.
- (c) Each *Automobile* must remain as supplied by the Manufacturer and apart from adjustments being made, where provision for such adjustments is provided by the Manufacturer, must not be modified.
- (d) Any modification, including but not limited to any cutting, drilling or welding of the *Bodywork* and/or *Chassis* is prohibited.
- (e) Unless authorised by the Manufacturer, the addition of ancillary equipment, including but not limited to, gauges and monitoring devices, is prohibited.
- (f) For the 2021 *Series* each *Automobile* must be fitted with a Yuasa battery.

2 COMPLIANCE

Any dispute regarding the eligibility of an *Automobile* (or a component thereof) will be assessed, where appropriate, by a comparison of the item in question with a sample component supplied by the Manufacturer.

3 ENGINE AND TRANSMISSION

- (a) The engine and gearbox must be a standard Yamaha FJ/XJR un-modified unit as fitted by Yamaha to the production motorcycle.
- (b) If the engine is water-cooled, the installation of a water-cooled cylinder barrel by the Manufacturer is mandatory.
- (c) Only an engine supplied and approved by the Manufacturer will be eligible for use in a *Competition*.

3.1 Ignition Systems

- (a) An engine may be fitted with 1 of the 2 ignition systems outlined below:
- (i) **Yamaha Standard Ignition**
The ignition system and base pick up must be standard Yamaha FJ/XJR un-modified unit as fitted by Yamaha to the production motorcycle
- (ii) **Aussie Racing Cars Approved Aftermarket Digital Ignition System**
The ignition system must be as supplied by the Manufacturer. The base pick up must be installed such that the 35 degree mark on the base pick up plate is in line with the 2 engine halves.

3.2 Carburettors

Any carburettor jet for metering fuel must be between Yamaha numbers 105 and 140 and the needle may not be reduced to less than 25% of the original diameter.

3.3 Non Genuine Parts

An engine gasket and oil filter may be of non-genuine manufacture but must be mechanically identical to genuine Yamaha products.

3.4 Engine Reconditioning and Servicing

- (a) An engine must only be serviced or re-conditioned by the official category engine service facility.
- (b) The complete engine must be inspected and sealed prior to use in a *Competition*.
- (c) An engine that has no seals, or seals that have been subject to tampering with will not be eligible to compete.

4 REAR AXLE AND FINAL DRIVE

The final drive ratio must be 2.5:1.

5 SUSPENSION ADJUSTMENTS

- (a) The suspension may be adjusted only by the means provided by the Manufacturer, and only within the limits of the standard mechanical components.
- (b) Each shock absorber and spring must remain standard as supplied by the Manufacturer.

6 ELECTRICAL

The electrical isolation switch must remain as provided by the Manufacturer.

7 DATA LOGGING

Unless specifically authorised by the Manufacturer, the use of any device or instrument capable of storing or transmitting any form of data collected from the *Automobile* is prohibited.

8 REPAIRS

- (a) Repairs may be necessary as a result of damage in competition or through normal wear and tear.
- (b) Minor repairs to *Coachwork* may be made by a *Competitor*, provided that the repaired structure respects the design parameters of the original undamaged component and is acceptable to the Manufacturer. The highest standard of presentation is only acceptable.
- (c) Any coachwork repair not of a minor nature, identified as such by the Manufacturer, and repairs to any other component of the *Automobile* must be performed by the Manufacturer or its approved repairer.

9 BRAKES

9.1 Brake Pads

The only brake pads that are permitted to be fitted are as follows:

	Calliper type	Part No.
Front	AP	ARC4008
	Other than AP	DP4008R
Rear	All	ARC31501

9.2 Brake Rotors

The only brake rotors that are permitted to be fitted are as follows:

	Calliper type	Part No.
Front	AP	RDA679 D or S
	Other than AP	RDA118 D or S
Rear	All	ARC RDA188 D or S

9.3 Adjustable Brake Bias

- The only brake bias adjuster that is permitted to be fitted is ARC part number C-BBA.
- The adjuster must only be fitted in the position approved by the Manufacturer such that bias adjustments cannot be made while the *Driver* is seated in the race position with the seat belts fastened.

10 MINIMUM WEIGHT

At no time may the minimum *Racing Weight* of an *Automobile* be less than 595 kg. This weight must be achieved with the *Driver* and all of their equipment.