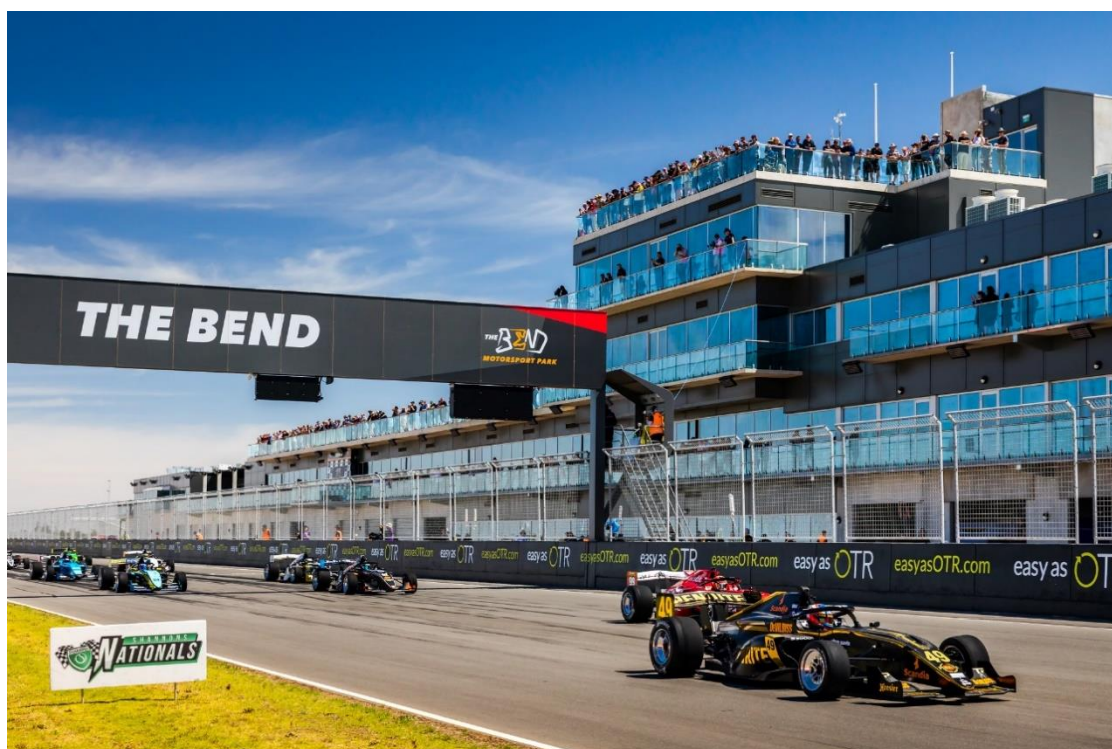


Sporting and Technical Regulations



2023 S5000 Australian Drivers Championship Motorsport Australia Gold Star Incorporating 2023 S5000 Tasman Series Sporting and Technical Regulations



Version 1	Published 10/02/2023
Version 2	Published 24/07/2023
Version 3	Published 11/08/2023



2023 S5000 Australian Drivers Championship

Motorsport Australia Gold Star

Sporting & Technical Regulations

A *Capitalised* and *italicised* word in this document is defined in the FIA International Sporting Code (*Code*), National Competition Rules (*NCR*), including their Appendices or Attachment 2 of this document.

Contents

S1	TITLE AND JURISDICTION	5
S1.1	Title	5
S1.2	Authority / Jurisdiction	5
S2	ADMINISTRATION	5
S2.1	Personnel	5
S3	COMPETITOR ELIGIBILITY	5
S4	AUTOMOBILE ELIGIBILITY	6
S4.1	Replacement <i>Automobile</i>	6
S5	DRIVER ELIGIBILITY	6
S5.2	Substitute <i>Driver</i>	6
S6	CHAMPIONSHIP ROUNDS	6
S7	CHAMPIONSHIP CALENDAR	6
S8	ROUND FORMAT	7
S8.1	Variations to Timetable	7
S9	DRIVER QUALIFICATION	7
S10	GRID DETERMINATION	7
S11	START PROCEDURE	7
S12	DRY TO WET TYRE CHANGE PROCEDURE FOR A RACE	8
S12.1	Prior to the opening of <i>Pit Lane</i> exit for the reconnaissance lap to the grid:	8
S12.2	During the race	8
S13	AWARDS AND POINT SCORE	8
S13.1	Prizes and Trophies	8
S13.2	<i>Round Winner</i>	8
S13.3	Point Score	8
S14	EVENT OPERATIONS	9
S14.1	<i>Event Registration and Entry</i>	9
S14.2	<i>Driver/Team Manager Briefings</i>	9
S14.3	<i>Driver/Competitor Departure from the Precinct</i>	10
S14.4	<i>Parc Fermé</i>	10
S14.5	Practice	10
S14.6	Qualifying	10
S14.7	Races	11
S14.8	Push to Pass	11
S14.9	<i>Pit Lane</i>	11

S14.10	Removal of <i>Automobiles</i> from the <i>Precinct</i>	12
S14.11	Radio Communication to/from the <i>Automobile</i>	12
S14.12	Race Management Channel (<i>RMC</i>)	12
S14.13	Safety Car	12
S15	TYRES	12
S15.1	General.....	12
S15.2	Tyre Allocation.....	13
S15.3	Tyre Marking/Scanning.....	14
S15.4	Tyre Warming Cupboards	14
S16	FUEL	14
S16.1	General.....	14
S16.2	Refuelling	15
S17	AUTOMOBILE MARKINGS	15
S17.2	<i>Competition Number</i>	15
S17.3	In-Car Signage	15
S18	DRIVER'S APPAREL	15
S19	IN-CAR CAMERAS	15
S20	ENGINE RESTRICTIONS	16
S21	TESTING RESTRICTIONS	17
S21.1	Track Test Days	17
S21.2	Wind Tunnel Testing	17
S22	RAIN LIGHT	17
S23	SCALES OF FACT	17
S24	TIMING TRANSMITTER	17
S25	PIT GARAGE SETUP	17
S26	COMPETITOR CONDUCT	18
T1	PREAMBLE	19
T2	MODIFICATIONS TO AUTOMOTIVE DESIGN	19
T2.1	General.....	19
T2.2	Standard Mounting Parts.....	19
T2.3	Protections	20
T2.4	<i>Bodywork</i>	20
T3	BODYWORK AND DIMENSION	20
T3.1	Dimension	20
T3.2	Permitted Changes to the Original Specifications	20
T3.3	Minor Repairs	20
T3.4	Skid Block.....	20
T3.5	Aerodynamic Devices.....	21
T4	WEIGHT	21
T4.1	Minimum Weight.....	21
T4.2	<i>Ballast</i>	21
T5	COCKPIT	21
T5.1	Extractable <i>Seat</i>	21
T5.2	<i>Seat</i> Insert.....	21
T5.3	<i>Cockpit</i> Padding	21

T5.4	Head Rests and Head Protection	21
T5.5	Safety Harness	22
T5.6	Fire Extinguisher	22
T5.7	<i>Cockpit</i> Components	22
T6	SAFETY STRUCTURES	22
T6.1	Major Repairs	22
T7	ENGINE	22
T7.1	Engine Modifications	22
T7.2	Engine Sealing	23
T7.3	Engine Repair.....	23
T8	ENGINE CONSUMABLES	23
T8.1	Engine Oil and Coolant.....	23
T8.2	Engine Filters, Belts	23
T9	ENGINE COOLING SYSTEM	23
T9.1	Engine Coolant Radiator Pipework.....	23
T9.2	Engine Oil Cooler	23
T9.3	Gearbox Oil Cooler.....	23
T10	EXHAUST SYSTEM	23
T11	ELECTRICAL SYSTEM	24
T11.1	Modifications	24
T11.2	Battery	24
T11.3	Engine Control Unit (ECU)	24
T11.4	Sensors	24
T12	ENGINE IGNITION SYSTEM	24
T12.1	Spark Plugs	24
T12.2	Ignition Coil.....	24
T13	TRANSMISSION	24
T13.1	Flywheel and Clutch	24
T13.2	Gearbox.....	25
T13.3	Gearbox Ratios	25
T14	SUSPENSION	25
T14.1	Springs	25
T14.2	Shock Absorbers	25
T15	FUEL SYSTEM	25
T16	BRAKES	26
T16.1	Brake Pads.....	26
T17	WHEELS	26
	ATTACHMENT 1 – MARKINGS ON AUTOMOBILES	27
	ATTACHMENT 2 - DEFINITIONS & ABBREVIATIONS	28

2023 S5000 Australian Drivers Championship MOTORSPORT AUSTRALIA Gold Star

Sporting Regulations

S1 TITLE AND JURISDICTION

S1.1 Title

The *Championship* will only be known as and referred to as “2023 S5000 Australian Drivers Championship Motorsport Australia Gold Star” and will incorporate the 2023 S5000 Tasman Series.

S1.2 Authority / Jurisdiction

1.2.1 Each *Round* of the *Championship* will be held under the *FIA* International Sporting Code including Appendices (*Code*); the National Competition Rules (*NCR*) and Circuit Race Standing Regulations (*CRSR*) of *Motorsport Australia*; the Sporting and Technical Regulations issued for the *Championship* by *Motorsport Australia*; *Supplementary Regulations* issued by the *Organiser* for each *Event*; Bulletins issued by the Stewards; Driver Briefing Notes and instructions issued by the Race Director or the Clerk of the Course at an *Event* and any *Event* specific documentation as published by the *CM*.

1.2.2 This *Championship* has been sanctioned by *Motorsport Australia* as a National Championship.

1.2.3 Australia Racing Group Pty Ltd has been appointed as the Category Manager (*CM*) by *Motorsport Australia* for the *Championship*.

Contact Details: Ben McMellan
Australian Racing Group
Email: ben@australianracinggroup.com
Phone: +61 419 613 591

S2 ADMINISTRATION

S2.1 Personnel

The following personnel have been appointed by *Motorsport Australia* and/or the *CM* and have the authority to administer the various aspects of these regulations as detailed in the *CRSR*.

Race Director (<i>RD</i>)	Matt Balcombe
Technical Delegate (<i>TD</i>)	Frank Adamson
Series Steward (<i>SS</i>)	Trevor Neumann
Category Administrator (<i>CA</i>)	Ben McMellan
Driving Standards Advisor (<i>DSA</i>)	Alex Davison

S3 COMPETITOR ELIGIBILITY

To be eligible to compete in the *Championship*, each *Competitor* must hold a current *Motorsport Australia Competitor Licence* and comply with all terms and conditions of the *CM*.

S4 AUTOMOBILE ELIGIBILITY

Each *Automobile* must comply with the requirements of the 2023 S5000 Australian Drivers Championship Motorsport Australia Gold Star Technical Regulations and the relevant *Motorsport Australia* Recognition Document to be eligible to compete in the *Championship*.

S4.1 Replacement *Automobile*

Following the commencement of the first practice session at each *Round*, any *Automobile* that has been entered to compete at that *Round*, may not be replaced with another *Automobile* without the permission of the *CM* and the approval of the Stewards.

S5 DRIVER ELIGIBILITY

S5.1 General

- 5.1.1 To be eligible to compete in the *Championship*, each *Driver* must be a minimum of 17 years of age, hold a current International Grade C Circuit *Driver Licence* or higher and be registered with the *CM*.
- 5.1.2 A *Driver* holding a Licence issued by an ASN other than *Motorsport Australia* will be eligible to score points in the *Championship*.
- 5.1.3 The *CM* reserves the right to prohibit any *Driver* from entering any *Round*, if in the *CM*'s opinion, the *Driver*'s previous actions have resulted in the category or the *Championship* or the *Driver* being brought into disrepute.

S5.2 Substitute *Driver*

Subject to the approval of the Stewards and the *CM*, prior to the commencement of the qualifying session at each *Round*, a *Competitor* may nominate an eligible substitute *Driver* who may compete in the remainder of the *Round*.

S6 CHAMPIONSHIP ROUNDS

The *Championship* will be conducted over 6 *Rounds* as detailed in the *Championship* Calendar below. Each race conducted as a part of the *Championship* will count in determining the final results of the *Championship*.

S7 CHAMPIONSHIP CALENDAR

<i>Round</i>	<i>Date</i>	<i>Circuit</i>
1	24-26 February	Symmons Plains
2	12-14 May	Phillip Island
3	9-11 June	Winton Motor Raceway
4	28-30 July	Sydney Motorsport Park
5	18-20 August	The Bend Motorsport Park
6*	23-26 November	Adelaide Parklands

* Denotes a *Round* which is also a round of the 2023 S5000 Tasman Series

Note: The above calendar is subject to change. The *CM* will advise each *Competitor* of any change.

S8 ROUND FORMAT

The number, length and format of Track sessions will ultimately be negotiated between the *CM* and the *Organiser* prior to an *Event* and will be advised in the *Supplementary Regulations* issued for an *Event*. Generally, the format for each *Event* will be as follows:

- Practice: A minimum of 30 minutes of practice time
- Qualifying: A minimum of 1 x 15-minute session
- Races: A minimum of 60 minutes of race time will be scheduled at each *Round* as detailed in the *Supplementary Regulations*

S8.1 Variations to Timetable

With the prior approval of the Stewards, the *Event* timetable may be varied at any time due to exceptional circumstances.

S9 DRIVER QUALIFICATION

Each *Driver* whose fastest lap time recorded during any practice or qualifying session exceeds 115% of the fastest lap time recorded in the qualifying session will be prohibited to further compete at that *Round* unless otherwise approved by the Stewards due to exceptional circumstances as described in the *CRSR*.

S10 GRID DETERMINATION

Race 1: The grid for Race 1 will be determined in accordance with the *CRSR* (Qualifying order).

Race 2: The grid for Race 2 will be determined in accordance with the *CRSR* (Race 1 results order).

Race 3 (Main Event): The grid for the Main Event will be determined based on the aggregate points awarded to each *Driver* based on the results of Qualifying, Race 1 and Race 2 with the highest point scorer on grid position 1, the second highest point scorer on grid position 2 and so on.

If 2 or more *Drivers* have the same number of aggregate points, the higher grid position will be allocated to the *Driver* with the fastest qualifying lap time.

In such case, if 2 or more *Drivers* have the same fastest qualifying lap time, the higher grid position will be allocated to the *Driver* who achieved that lap time first.

S11 START PROCEDURE

Unless specified otherwise in *Event* regulations, the *Start* procedure for each race will be a Championship Standing Start in accordance with the *CRSR* except for the following:

Pit crew may not access the grid;

Only the 1-minute board will be displayed and this will occur when the first *Automobile* stops on the grid at the end of the reconnaissance lap;

The formation lap will commence when the green flag is displayed by the Starter; and

Each *Automobile* must remain within 50 metres of the *Automobile* in front of it throughout the formation lap.

S12 DRY TO WET TYRE CHANGE PROCEDURE FOR A RACE

The following procedures are to be followed if the *Track* conditions change from dry to wet, to the point that the *RD* considers that wet weather tyres may be required before or during a race:

S12.1 Prior to the opening of *Pit Lane* exit for the reconnaissance lap to the grid:

- 12.1.1 Any tyres in accordance with Article S15, wet or dry weather, may be fitted to an *Automobile* prior to it commencing the reconnaissance lap to the grid.
- 12.1.2 In this case, the following articles will not apply, however, the Safety Car may be deployed if considered necessary due to wet *Track* conditions.

S12.2 During the race

- 12.2.1 The Safety Car will be deployed.
- 12.2.2 If it is determined that the *Track* will not dry quickly and 75% or more of the race distance has been completed, the race will be stopped and not restarted.
- 12.2.3 If it is determined that the *Track* will not dry quickly and less than 75% of the race distance has been completed, the race will be suspended with all *Automobiles* directed to the *Pit Lane* where they must line up behind the Safety Car in the fast lane.
- 12.2.4 Team members may approach the *Automobiles* on the direction of the *RD*.
- 12.2.5 The only work permitted to be carried out on an *Automobile* in the *Pit Lane* will be changing to wet weather tyres. Changing tyres is not mandatory and is at the discretion of the *Competitor*.
- 12.2.6 From the time the last *Automobile* enters *Pit Lane*, a 1-minute warning to the 5- minute signal will be advised over *RMC*.
- 12.2.7 The start procedure for resuming the race will be as detailed in the *CRSR*.

S13 AWARDS AND POINT SCORE

S13.1 Prizes and Trophies

- 13.1.1 The top 3 *Drivers* in the Main Event at each *Round* may be awarded a trophy by the *CM*.
- 13.1.2 Any other prize, trophy and/or award may be as determined by the *CM* and advised to each *Competitor*.

S13.2 Round Winner

The winner of each *Round* will be the winner of the Main Event.

S13.3 Point Score

- 13.3.1 Points will be awarded to *Drivers* for each Qualifying session and race (including the Main Event) at each *Round* in accordance with the following table:

Finishing Position	Points			
	Qualifying	Race 1	Race 2	Race 3 (Main Event)
1 st	10	30	30	60
2 nd	5	27	27	50
3 rd	1	24	24	40
4 th		22	22	32
5 th		20	20	26
6 th		18	18	24
7 th		16	16	22
8 th		14	14	20
9 th		12	12	18
10 th		10	10	16
11 th		8	8	14
12 th		6	6	12
13 th		4	4	10
14 th		2	2	8
15 th		1	1	6

- 13.3.2 Points for each race (including the Main Event) will only be awarded to the *Drivers* classified as finishers in the final results of that race (including the Main Event).
- 13.3.3 No points will be awarded for any race (including the Main Event) where all laps are under Safety Car conditions.
- 13.3.4 The *Driver* gaining the highest points total over the 6 *Rounds* will be declared the winner of the *Championship* and awarded the Motorsport Australia Gold Star.
- 13.3.5 The *Driver* gaining the highest points total over *Round 6* will be declared the winner of the 2023 S5000 Tasman Series and awarded the Tasman Cup.
- 13.3.6 If there is a tie at the end of the *Championship*, the 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 *Championship* 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.

S14 EVENT OPERATIONS

S14.1 Event Registration and Entry

Event Registration and Entry forms will be available from the CA with document checking being conducted by the CA prior to the first official *Track* session at each *Round*.

S14.2 Driver/Team Manager Briefings

- 14.2.1 Each *Driver* and *Team Manager* must attend the compulsory *Drivers* briefing conducted at each *Round*.
- 14.2.2 The time and location of the *Drivers* briefing will be detailed in the *Supplementary Regulations* for the *Event*.
- 14.2.3 Each *Driver* and *Team Manager* is required to sign the attendance sheet prior to the commencement of the briefing as confirmation of their attendance.
- 14.2.4 Other compulsory briefings may be convened as required and will be advised to each *Competitor* accordingly.

S14.3 Driver/Competitor Departure from the Precinct

For judicial purposes, each *Competitor* and *Driver* must remain at the *Precinct* following the conclusion of any on-track session until officially released by the *RD*.

S14.4 Parc Fermé

14.4.1 Unless otherwise advised via the *RMC*, at the conclusion of each qualifying session and race, each *Automobile*, including any *Automobile* that completed the session in *Pit Lane*, must proceed directly to *Parc Fermé* via the most direct route (or as directed by *Officials*) without returning to its *Pit Garage* or the paddock area and without interference from any third party (other than an *Official*).

14.4.2 Work on an *Automobile* that is in the *Pit Lane* at the conclusion of a qualifying session or race is prohibited after the chequered flag has been displayed unless authorised by the *TD*.

14.4.3 An *Automobile* (or any component thereof) may not leave *Parc Fermé* without the approval of the *TD*.

14.4.4 Unless advised otherwise by the *TD*, 1 crew member per *Automobile* only is permitted to access *Parc Fermé* at any one time for the purpose of performing the following tasks only:

- checking tyre pressures;
- installing cooling fans;
- downloading data;
- removing the SD cards; and
- cycling the engine on and off.

S14.5 Practice

14.5.1 If allocated a *Pit Garage*, prior to the commencement of each practice session each *Automobile* must be in its *Pit Bay* at an angle of 45 degrees with the front of the *Automobile* pointing towards *Pit Lane* exit unless otherwise approved by the *TD*. If not allocated a *Pit Garage*, the procedure will be advised by the *CM*.

14.5.2 If allocated a *Pit Garage*, when *Pit Lane* exit opens to commence the session, each *Automobile* must leave its *Pit Bay* in the *Pit Garage* order commencing from the *Pit Lane* exit end unless an *Automobile* is unable to leave its *Pit Bay* or is waiting until all other *Automobiles* have exited. In this case, the *Car Controller* must notify the next *Automobile* that they are not moving and that the next *Automobile* may proceed. If not allocated a *Pit Garage*, the procedure will be advised by the *CM*.

14.5.3 During each practice session, each *Automobile* that is parked in *Pit Lane* must be in its *Pit Bay* at an angle of 45 degrees with the front of the *Automobile* pointing towards the *Pit Garage*.

14.5.4 If a red flag is displayed during a practice session, each *Automobile* must return to its *Pit Bay* and remain there until the exit of the *Pit Lane* is open to recommence the session.

14.5.5 During a practice session an *Automobile* may return to its *Pit Garage* but not to the paddock area.

S14.6 Qualifying

14.6.1 If allocated a *Pit Garage*, prior to the commencement of a qualifying session each *Automobile* must be in its *Pit Bay* at an angle of 45 degrees with the front of the *Automobile* pointing towards *Pit Lane* exit unless otherwise approved by the *TD*. If not allocated a *Pit Garage*, the procedure will be advised by the *CM*.

- 14.6.2 If allocated a *Pit Garage*, when *Pit Lane* exit opens to commence the session, each *Automobile* must leave its *Pit Bay* in the order of Practice 2 results unless an *Automobile* is unable to leave its *Pit Bay* or is waiting until all other *Automobiles* have exited. In this case, the *Car Controller* must notify the next *Automobile* that they are not moving and that the next *Automobile* may proceed. If not allocated a *Pit Garage*, the procedure will be advised by the *CM*.
- 14.6.3 During each qualifying session, each *Automobile* that is parked in *Pit Lane* must be in its *Pit Bay* at an angle of 45 degrees with the front of the *Automobile* pointing towards the *Pit Garage*.
- 14.6.4 During a qualifying session, an *Automobile* may not return to its *Pit Garage* or the paddock area without the approval of the *TD*. Any *Automobile* that exits *Pit Lane* to its *Pit Garage* or the paddock area during a qualifying session will be prohibited from re-joining the session and will be referred to the Stewards.
- 14.6.5 Any *Driver* that causes a red flag to be displayed during a qualifying session will have their fastest lap time at the time of that red flag deleted.
- 14.6.6 If a red flag is displayed during a qualifying session, each *Automobile* must return to its *Pit Bay* and remain there until the exit of the *Pit Lane* is open to recommence the session.

S14.7 Races

- 14.7.1 If allocated a *Pit Garage*, prior to the commencement of each reconnaissance lap, each *Automobile* must be in its *Pit Bay* at an angle of 45 degrees with the front of the *Automobile* pointing towards *Pit Lane* exit. If not allocated a *Pit Garage*, the procedure will be advised by the *CM*.
- 14.7.2 During each race, if an *Automobile* returns to its *Pit Garage* or the paddock area it will be prohibited from re-joining that race.
- 14.7.3 During each race, each *Automobile* that is parked in *Pit Lane* must be in its *Pit Bay* at an angle of 45 degrees with the front of the *Automobile* pointing towards the *Pit Garage*.

S14.8 Push to Pass

- 14.8.1 Each *Automobile* will be programmed with a qualifying mode and a race mode which can be selected by the *Driver*. Race mode will also include a push to pass option which can be activated by the *Driver*.
- 14.8.2 During each practice and qualifying session, qualifying or race mode may be used.
- 14.8.3 During each race:
- the use of qualifying mode is prohibited;
 - the use of push to pass during the first lap of a race is prohibited;
 - the maximum time of push to pass activation permitted per race will be published in a Bulletin at each *Round*; and
 - if the race is suspended by the display of a red flag, for the resumption of the race the time of push to pass activation available will reset to the maximum.
- 14.8.4 The *CM* may check and calibrate the throttle butterfly position at any time during a *Round*.

S14.9 Pit Lane

- 14.9.1 At each *Round*, prior to entering *Pit Lane* for the first track session, each crew member intending to enter *Pit Lane* must sign a Pit Lane Indemnity Form and correctly display identification as and if required by the *Organiser*.
- 14.9.2 Each *Driver* is only permitted to stop in their designated *Pit Bay* in accordance with the *Pit Bay* allocation as published by the *CM* at each *Round*.

14.9.3 During any session, a maximum of 1 *Car Controller* and 2 pit crew per *Automobile* are permitted to cross the *Prescribed Line* to undertake the following tasks on that *Automobile* only.

14.9.4 The *Car Controller* must:

be primarily positioned near the front of the *Automobile* while it is on its wheels in its *Pit Bay*; and not undertake any work at all on the *Automobile* whilst the *Automobile* is in the *Pit Lane*; and at all times maintain full control of any *Pit Stop* and the *Automobile's* movements into the *Pit Bay* and release from the *Pit Bay*.

14.9.5 The 2 pit crew may undertake any work on an *Automobile* except refuelling.

14.9.6 Unless otherwise directed to do so by an *Official*, a *Driver* is prohibited to significantly slow and/or stop their *Automobile* whilst in the 'fast lane' in *Pit Lane*.

S14.10 Removal of *Automobiles* from the *Precinct*

Following the commencement of the first practice session at each *Round*, it is prohibited to remove any *Automobile* from the *Precinct* prior to the release of all *Automobiles* from *Parc Fermé* following the final race of that *Round* without the prior approval of the *TD*.

S14.11 Radio Communication to/from the *Automobile*

14.11.1 At least 1 crew member per *Automobile* must be in direct radio communication with the *Driver* at all times whilst the *Driver* is in the *Automobile*. This crew member must be located in *Pit Lane* within their *Automobile's* allocated *Pit Bay* area during each session.

14.11.2 Prior to the commencement of each *Round*, each *Competitor* must provide the *CM* with each of their *Automobile's* radio frequency.

14.11.3 Direct communication between competing *Automobiles* is prohibited.

S14.12 Race Management Channel (*RMC*)

14.12.1 A minimum of 1 senior crew member per *Automobile* must monitor *RMC* at all times from 15 minutes prior to the scheduled commencement of each session through until 15 minutes after the completion of each session.

14.12.2 Details of the *RMC* frequency will be advised by the *CM*.

14.12.3 All messages received on the *RMC* are regulatory and must be relayed to the *Driver*.

S14.13 Safety Car

A Safety Car may be used in any race in accordance with the *CRSR*.

S15 TYRES

S15.1 General

15.1.1 Only Hoosier S5000M or S5000MS specification control tyres, complete with barcode identification, are permitted for use in the *Championship*.

15.1.2 Only tyres supplied by the following supplier may be used:

Hoosier Tire Australia

Email: sales@mdmotorsport.com.au

Phone: 02 9679 1990

15.1.3 Each tyre must be fitted to the wheel in accordance with the manufacturer's specifications.

- 15.1.4 Each new tyre must be fitted to the wheel with the 4-character serial code facing towards the inside of the *Automobile*. Once a tyre has been run in this orientation it is prohibited to remount it to the wheel in the opposite direction without approval from the *TD*.
- 15.1.5 Each tyre must only be inflated with air or nitrogen.
- 15.1.6 An *Automobile* is permitted to use wet weather tyres in any session other than a race at any time.
- 15.1.7 An *Automobile* is only permitted to use wet weather tyres in a race once that race has been declared wet by the *RD*.
- 15.1.8 Any tyre may only be cleaned using a manually operated hand-held tool/s such as a flat scraper. The use of any electrical or mechanically operated device is prohibited.
- 15.1.9 A section of “build up” measuring a maximum of 50 mm width across the entire tread may be removed from each tyre to allow the tyre tread depth to be measured at a maximum of 2 locations on any 1 tyre. In addition, “build up” may be removed from the inside shoulder of each tyre for a maximum of 50 mm from the edge of the tyre. Electrical or mechanically operated devices are permitted to be used to remove “build up” in these areas only.
- 15.1.10 It is prohibited to use a tyre at any time once worn to the limits of the tread depth indicators.
- 15.1.11 Any modification or treatment including buffing, cutting, grooving, application of water, solvents or softeners is prohibited.
- 15.1.12 The only method permitted for heating a tyre is described in Article S15.4.
- 15.1.13 It is prohibited to fit any device to adjust, change, reduce or increase the pressure of a tyre once fitted to the wheel, save for the normal temporary equipment authorised for use in the marshalling area, *Pit Lane* or *Pit Garage*.
- 15.1.14 The *TD* is permitted to impound any tyre between sessions.
- 15.1.15 The *TD* will be the sole arbiter with regard to the interpretation and application of any tyre regulation and any decision made by the *TD* in this regard will not be the subject of any protest.

S15.2 Tyre Allocation

- 15.2.1 For a test day, each *Automobile* may use any Hoosier S5000M or S5000MS specification control tyre of which a maximum of 2 front and 2 rear may be new dry weather tyres.
- 15.2.2 For *Round 1*, each *Automobile* may use 4 front and 4 rear new dry weather S5000M tyres which are the only tyres permitted to be used for the entire *Round*.
- 15.2.3 For *Rounds 2 and 3*, each *Automobile* may use:
 - For all practice sessions, 2 front and 2 rear new dry weather S5000M tyres and any tyre marked for *Round 1* and/or 2; and
 - For the qualifying session and races, 4 front and 4 rear dry weather tyres from the practice allocation that have been marked for use in that *Round*.
- 15.2.4 For *Round 4*, each *Automobile* may use 4 front and 4 rear new dry weather S5000MS tyres which are the only tyres permitted to be used for the entire *Round*.
- 15.2.5 For each of *Rounds 5 and 6*, each *Automobile* may use:
 - For all practice sessions, 2 front and 2 rear new dry weather S5000MS tyres and any tyre marked for the previous *Round*; and
 - For the qualifying session and races, 4 front and 4 rear dry weather tyres from the practice allocation that have been marked for use in that *Round*.

- 15.2.6 For *Rounds* 2 to 6, each *Automobile* with a *Driver* competing for the first time [on the S5000MS specification control tyre in the Series](#), may use a maximum of 4 front and 4 rear dry weather tyres which are the only tyres permitted to be used for that entire *Round*. These tyres may be 4 front and 4 rear new tyres or 2 front and 2 rear new tyres and 2 front and 2 rear used tyres.
- 15.2.7 The number of wet weather tyres permitted to be used is free.
- 15.2.8 If a *Competitor* no longer has 4 marked tyres available for use on an *Automobile* due to damage sustained during qualifying and/or any race, with the approval of the *TD*, a *Competitor* may be permitted a replacement *Previously Marked Tyre/s* for that *Automobile* provided the replacement tyre/s is of similar wear.
- Note:** The introduction of the S5000MS specification control tyre is dependent on remaining stock of the S5000M specification control tyre and may occur later than *Round* 3. If so, the *CM* will advise each *Competitor* in advance and these regulations will be amended accordingly.

S15.3 Tyre Marking/Scanning

- 15.3.1 For *Rounds* 1 and 4, each tyre to be used on an *Automobile* as part of its tyre allocation must be marked/scanned before the commencement of the first practice session.
- 15.3.2 For *Rounds* 2, 3, 5 and 6, each tyre to be used on an *Automobile* as part of its tyre allocation must be marked/scanned before the commencement of the qualifying session.
- 15.3.3 Each *Competitor* must present each tyre to the *TD* or their nominee for marking/scanning when requested.
- 15.3.4 It is the *Competitor's* responsibility to ensure that each tyre to be used is marked or scanned by the *TD* or their nominee and that these markings remain legible at all times.
- 15.3.5 Following the completion of each practice, qualifying and race, it is the *Competitor's* responsibility to notify the *TD* of any tyre that requires re-marking during *Parc Fermé* or prior to the wheel being removed from the *Automobile*. Failure to do so may result in the tyre being deemed ineligible.

S15.4 Tyre Warming Cupboards

At each *Round* where S5000M spec tyres are used, the *CM* will supply tyre warming cupboards for the use of each *Competitor* under the following conditions:

Each cupboard will be positioned by the *CM* in the paddock;

The *CM* will advise the cupboard to be used for the tyres of each *Automobile*;

A cupboard may not be moved;

1 set of tyres for each *Automobile* may be stored in its cupboard at any one time;

Prior to each *Track* session, the *CM* will advise when it is permitted to remove tyres from the cupboard for fitment to the *Automobile*;

The transportation of any tyre from the cupboard to the *Automobile* must be carried out without thermal protection; and

Each *Automobile* must transit to the Marshalling Area with tyres fitted for use in that session.

S16 FUEL

S16.1 General

- 16.1.1 For the duration of a *Round*, each *Competitor* must only use the specified [ELF Race 102 98-RON](#) control fuel supplied by the official fuel supplier, Race Fuels, or their appointed representative.
- 16.1.2 It is prohibited to use any additive or modify the fuel, including temperature, as supplied.

- 16.1.3 A maximum of 60 litres of fuel per *Automobile* may be stored in the fuel containers provided by the official fuel supplier and within each *Automobile*'s designated *Pit Garage* or the designated dangerous goods storage unit.
- 16.1.4 It must be possible to take a 1.0 kg sample of fuel from an *Automobile* at any time during an *Event* for testing in accordance with Technical Appendix - Schedule G of the *Manual*.

S16.2 Refuelling

- 16.2.1 Refuelling or defueling during any *Track* session or in *Pit Lane* at any time is prohibited.
- 16.2.2 When refuelling an *Automobile* each *Competitor* is required to comply with the following refuelling procedure:
- At least 1 crew member must act as a fire attendant and be in possession of either 1 x 9 kg or 2 x 4.5 kg dry powder fire extinguisher/s;
 - Except for the refueller and designated fire attendant/s, no other person is permitted to be within 3 metres of the refuelling point;
 - The *Automobile* must be electrically connected to earth; and
 - A drip/catch mat or tray must be below the refuelling point of the *Automobile* which must be capable of containing any spillage.

S17 AUTOMOBILE MARKINGS

S17.1 General

- 17.1.1 In addition to the requirements detailed in Attachment 1 of these regulations, each *Automobile* must comply with Technical Appendix - Schedule K of the *Manual*.
- 17.1.2 The livery of each *Automobile* must be approved by the *CM*.
- 17.1.3 The name of the *Driver* and their national flag must be displayed on the bodywork outside of the *Cockpit* or on the halo or on the *Driver's* helmet.

S17.2 Competition Number

- 17.2.1 The allocation of a *Competition Number* for each *Automobile* is solely the responsibility of the *CM*.
- 17.2.2 Unless otherwise approved by the *CM*, once a *Competition Number* has been allocated to an *Automobile*, this *Competition Number* must remain with that *Automobile* for the entire *Championship*.

S17.3 In-Car Signage

- 17.3.1 Signage is prohibited within the *Cockpit* of an *Automobile*.
- 17.3.2 Signage may be fixed to the halo subject to the approval of the *CM*.

S18 DRIVER'S APPAREL

Each *Driver* must only use apparel that complies with Article 1.1 (International) of Technical Appendix - Schedule D of the *Manual*.

S19 IN-CAR CAMERAS

- 19.1 Each *Automobile* is supplied and fitted with a video camera/recorder which must remain in the location as fitted.

- 19.2 The camera must be positioned such that it is pointed in a forward direction with a field of vision sufficiently wide enough to record clearly and without obstruction at all times the *Driver's* view of the *Track* ahead. The camera position must be approved by the *CM/DSA* to ensure correct field of vision.
- 19.3 The *Competitor* must ensure that an SD card is installed in the camera and that it is switched on and functioning in the correct manner prior to the *Automobile* entering the *Track* for each practice, qualifying, warm up and race session at a *Round*.
- 19.4 The camera must remain functioning and record vision to the SD card for the entire time that the *Automobile* is on the *Track*.
- 19.5 Access to the camera must be provided to the *CM* or their nominee at any time upon request.
- 19.6 Each *Competitor* is permitted access to the video images recorded by the camera; however, the footage is strictly for private internal purposes, that is, it cannot be sold, licensed, broadcast, published, commercially exploited or otherwise publicly displayed or distributed including in any case via the internet.
- 19.7 When requested, a *Competitor* must immediately provide the SD card to the *RD, DSA, Stewards* or Clerk of the Course.
- 19.8 At all times the images recorded remain the property of the *CM*.
- 19.9 Each SD card must have the *Automobile's Competition Number* clearly marked on the card to the satisfaction of the *RD*.
- 19.10 Each SD card must be empty at the commencement of the *Round*, and no footage is to be deleted from the SD card during the *Round* without the written permission of the *RD*.
- 19.11 In addition to the in-car camera unit detailed in these regulations, an onboard television broadcast camera may be allocated and installed by the category broadcaster to any *Automobile*.
- 19.12 Unless otherwise approved in writing by the *CM*, the fitment and/or use of any other camera unit or recording device on an *Automobile* is prohibited.
- 19.13 Failure to comply with any regulations in regard to in-car cameras will be subject to a penalty as determined by the Stewards.

S20 ENGINE RESTRICTIONS

- 20.1 Except when the engine is changed due to maintenance as required by InnoV8 Race Engines via GRM, each *Automobile* that uses more than 1 engine during the *Championship* and testing will be subject to a penalty as described in Article S20.5 of these regulations.
- 20.2 The engine is associated with the *Automobile's Motorsport Australia* log book number.
- 20.3 An engine will be considered as having been used once the *Automobile's* timing transponder has indicated that it has left the *Pit Lane* at a *Round*.
- 20.4 Each engine must be sealed before being used by the *Competitor* for the first time. The breaking of any seal will be considered as a change of engine unless approved by the *CM*.
- 20.5 Except in a case of an engine issue which cause is outside the control of the team as verified by the *TD/CA* and recognised as such by the Stewards, a change of engine will result in the imposition of a 5 grid spot penalty for that *Automobile* for its next 3 races in the *Championship*.
- 20.6 Any penalty imposed by the Stewards for a breach of the rules on engine changes is not subject to appeal.

S21 TESTING RESTRICTIONS

S21.1 Track Test Days

- 21.1.1 Each team may organise 3 test days for the *Championship* for their own *Automobile/s*.
- 21.1.2 Additional testing may be allowed for inexperienced *Drivers* at the discretion of the *CM*.
- 21.1.3 A team undertaking a mid-*Championship* change of *Driver* may be permitted a familiarisation day for the new *Driver* only at the discretion of the *CM*.
- 21.1.4 Unless approved by the *CM*, testing in addition to the above is prohibited.
- 21.1.5 Test days may be undertaken at any *Circuit* in Australia approved by the *CM*.
- 21.1.6 Unless otherwise approved by the *CM*, any *Automobile* associated with the *Championship* is prohibited to be driven on any *Circuit* that is hosting a *Round* of the *Championship* for 2 weeks prior to the commencement of that *Round*.

S21.2 Wind Tunnel Testing

- 21.2.1 Wind tunnel testing as described below is prohibited.
- 21.2.2 Wind tunnel testing is the testing by a *Competitor* or any related party, agent or subcontractor of that *Competitor* in a test environment of a representation of an S5000 *Automobile* or subcomponent (including a scale model) in order to measure, observe or infer any forces, displacements, pressures or air flow direction resulting directly or indirectly from the incident air flow.

S22 RAIN LIGHT

The rain light fitted to each *Automobile* must be illuminated at all times whilst the *Automobile* is being driven on the *Track* with wet weather tyres fitted or as otherwise directed by Race Control.

S23 SCALES OF FACT

- 23.1 The *CM* will provide a set of scales for the purpose of weighing of *Automobiles* at each *Round*.
- 23.2 These scales will be the Scales of Fact for regulatory control at each *Round*.

S24 TIMING TRANSMITTER

- 24.1 A timing transmitter must be installed on each *Automobile* in compliance with the timing transmitter manufacturer's instructions.
- 24.2 Each timing transmitter must only be installed in the location as specified in the S5000 Recognition Document.
- 24.3 Each timing transmitter must be fully operational for each *Track* session.

S25 PIT GARAGE SETUP

If allocated a *Pit Garage*, any structure and/or equipment that impedes the line of sight from the rear of the *Pit Garage* to *Pit Lane* by more than 25 percent of the available garage width and to a height greater than 1.5 metres is prohibited.

S26 COMPETITOR CONDUCT

- 26.1 It is the *Competitor's* responsibility to ensure the *Driver* and each associated crew member conducts themselves in a respectable manner at all times. Failure to do so may result in the *Competitor, Driver* and/or crew member being referred to the Stewards.
- 26.2 At all times each *Competitor, Driver* and associated crew member are required to abide by the S5000 Australia Commercial Guidelines, S5000 Australia Brand Guidelines and Social Media Guidelines/Policy as published by the *CM* and/or *Motorsport Australia*.

2023 S5000 Australian Drivers Championship

Motorsport Australia Gold Star

Technical Regulations

T1 PREAMBLE

T1.1 Each *Automobile* in the *Championship* must comprise the S5000 racing package as made available by the Australian Racing Group (*ARG*) via its appointed manufacturer, Garry Rogers Motorsport (*GRM*), without modification of any kind, unless authorised by these regulations or by the *TD*.

T1.2 Each *Automobile* must comply with the following, collectively referred to as the *Reference Documents*:

1.2.1 S5000 Australia Recognition Document as approved by *Motorsport Australia*; and

1.2.2 any Manufacturer issued documents where referenced:

S5000 Australia User Manual

S5000 Australia Parts Catalogue

NOTE: Competitors will acknowledge that ANY part cannot be modified in any way, or parts and/or materials added or removed, unless these regulations specifically permit it. Any queries must be directed to the ARG, GRM or their nominated delegate.

T2 MODIFICATIONS TO AUTOMOTIVE DESIGN

T2.1 General

2.1.1 The complete S5000 *Automobile* is divided into three types of part:

Type 1: These parts must be supplied by the manufacturer and used exactly as supplied. Repairs may be carried out only by the manufacturer.

Type 2: These parts are Type 1 parts with specific restrictions. Only the modifications indicated in the *Reference Documents* may be carried out. Repairs are allowed only in the range described in the *Reference Documents*.

Type 3: These parts are unrestricted, provided that they are used as designed by the manufacturer and do not fulfil any secondary function.

2.1.2 The *CM* will supply gauges, jigs and samples which can be used by a *Competitor* to check their *Automobile's* compliance with the specification of various technical and controlled maximum *Automobile* parameters listed as Type 1 and Type 2 parts and any maximum *Automobile* dimension as stated in the S5000 Recognition Document 1-20-004.

2.1.3 For the avoidance of doubt, if any Type 1 or Type 2 part or *Automobile* dimension is not in compliance with the relevant gauge, jig or sample it will be deemed to be in breach of the *Rules*.

T2.2 Standard Mounting Parts

2.2.1 Standard mounting parts, such as screws, nuts, bolts, washers and lock washers, are considered as Type 3 parts unless specifically mentioned in the *Reference Documents*.

2.2.2 They may be replaced with equivalent or superior standard parts.

2.2.3 The thread type, size, length and pitch must remain the same.

- 2.2.4 The use of locking wire is permitted.
- 2.2.5 Any type of standard mounting part which has an influence on the *Automobile* set-up is considered as a Type 1 part unless specifically mentioned in the *Reference Documents*.
- 2.2.6 Only Type 3 washers may be removed.
- 2.2.7 Washers may be added only for facilitating and improving mechanical installation. They may influence the set-up of the *Automobile* only when specifically permitted in the *Reference Documents*.

T2.3 Protections

Heat protection, mechanical protection (such as abrasion protection or tape) and protection for *Driver* comfort may be added, provided that their sole function is the protection of the relevant element and are specifically mentioned in the *Reference Documents*.

T2.4 Bodywork

The modification of *Bodywork* parts and *Bodywork* supports is permitted only to ensure proper installation despite manufacturing tolerances.

T3 BODYWORK AND DIMENSION

T3.1 Dimension

Each *Automobile* must conform to the dimensions as detailed in the *Reference Documents* at all times.

T3.2 Permitted Changes to the Original Specifications

- 3.2.1 Tape may be applied to any fastener or any component surface. In each case, it must be clear that the tape has no function other than securing the fixing, colouring or protecting the part/s to which it is attached.
- 3.2.2 Apart from securing fasteners or unless expressly authorised in these Technical Regulations, Technical Bulletins or *Reference Documents*, it is prohibited to apply tape to cover a junction or gap between components, hole or cavity other than those that can be viewed from underneath the *Automobile*.
- 3.2.3 Any component inside the *Bodywork* may be covered with thermal insulation material and/or rubbing protection material providing this insulation and/or rubbing protection material has no other function than protecting a component against heat and/or chafing.
- 3.2.4 Heat protection material may be added to the *Bodywork* in the area of the exhaust system outlet, the sole purpose of which is to protect the *Bodywork* from damage from the hot exhaust gases.

T3.3 Minor Repairs

- 3.3.1 Minor repairs to non-structural Type 1 or 2 parts such as a side pod or main *Bodywork* may be made by the *Competitor* provided the damage does not affect an area greater than 150 mm at its maximum dimension and providing the original shape and dimensions are maintained.
- 3.3.2 Repairs to any fixing point must be approved by the *TD*.
- 3.3.3 In each other case, a damaged component must be replaced by a new one or submitted to the original supplier for repair unless a repair is further authorised by a Technical Bulletin.

T3.4 Skid Block

The Skid Block, made of wood, must be used as supplied by the manufacturer and be in accordance with the *Reference Documents*.

T3.5 Aerodynamic Devices

- 3.5.1 Each device designed to provide an aerodynamic effect must be used and fitted according to the *Reference Documents*.
- 3.5.2 Front and rear wing adjustment must only be made within the parameters set out in the *Reference Documents*.
- 3.5.3 Minor repairs to a component of the front or rear wing may be made by the *Competitor* provided the damage does not affect an area greater than 50mm at its maximum dimension, does not affect a fixing or fixing area and providing the original shape and dimensions are maintained. In each other case a damaged component must be replaced by a new one or submitted to the original supplier for repair.

T4 WEIGHT

T4.1 Minimum Weight

- 4.1.1 The *Minimum Weight* of the *Automobile*, at any time during a *Competition* is 860 kg.
- 4.1.2 The minimum *Racing Weight* of the *Automobile* at any time during a *Competition* is 940 kg.
- 4.1.3 Weight checks may be carried out at any time during a practice and qualifying session, and before and after any race.

T4.2 Ballast

Ballast used must only be attached using the specific fixing points provided as detailed in the *Reference Documents*. It must be possible to fix *Seals* to *Ballast*.

T5 COCKPIT

The *Cockpit* must remain at all times in compliance with the *Reference Documents*.

T5.1 Extractable Seat

- 5.1.1 Each *Chassis* must utilise the extractable *Seat*, fitted to the *Cockpit*, as supplied by the manufacturer.
- 5.1.2 Unless specifically approved by the *TD*, modifications to the extractable *Seat* or its fixing points is prohibited.

T5.2 Seat Insert

- 5.2.1 It is permitted to fit a *Seat* insert customised to suit the *Driver* of the *Automobile*.
- 5.2.2 Each *Seat* insert must be easily removable and must not affect the extraction of the *Driver* using the extractable *Seat*.
- 5.2.3 Each *Seat* insert will either be manufactured from or covered in a non-flammable and non-combustible material.
- 5.2.4 The *Driver* position in the *Cockpit* must remain in compliance with the *Reference Documents*, ensuring that the height of the *Driver's* helmet is contained within the required limits as defined by the head protection.

T5.3 Cockpit Padding

- 5.3.1 Additional padding may be used within the *Cockpit* provided it is non-structural and easily removed without the use of tools.
- 5.3.2 Additional padding must either be manufactured from or covered in a non-flammable and non-combustible material.

T5.4 Head Rests and Head Protection

- 5.4.1 The head rest and head protection insert as supplied by the manufacturer must be fitted and used at all times.

- 5.4.2 If necessary, and only for *Driver* comfort, an additional piece of padding no greater than 10 mm thick may be attached to the rear section of the head rest, and no greater than 20 mm thick on each side of the head rest. The additional material must be approved by the *TD*.

T5.5 Safety Harness

A six-point safety harness compliant with *FIA* 8853-2016, as a minimum, must be used at all times including at each *Round* and/or test session.

T5.6 Fire Extinguisher

- 5.6.1 A fire extinguisher compliant with the *FIA* Technical List No. 52 (<https://www.fia.com/regulation/category/761>) must be fitted according to the User Manual and the requirements of the *FIA* at all times.

- 5.6.2 The fire extinguisher must be maintained according to the requirements of its *FIA* Homologation.

T5.7 Cockpit Components

- 5.7.1 Each *Cockpit* component operable by the *Driver* must be fitted according to the *Reference Documents*.
- 5.7.2 Any adjustment is only permitted according to and within the parameters detailed in the *Reference Documents*.
- 5.7.3 Unless in compliance with these technical regulations, any modification to a *Cockpit* component is prohibited.
- 5.7.4 *Cockpit* components include:

Driver operated pedals – accelerator, brake, clutch;

Driver operable switches;

Steering column;

Brake Bias adjuster;

Associated component sensors/actuators; and

Driver rear vision mirrors.

T6 SAFETY STRUCTURES

T6.1 Major Repairs

- 6.1.1 Any repair to the survival cell/monocoque tub, *Driver* safety systems, roll structure, nose-box, side intrusion panels or rear impact structure must only be carried out with the approval of the original manufacturer, in accordance with the manufacturer's specifications and in a repair facility approved by the manufacturer.
- 6.1.2 Each *Competitor* will be required to show the original certificate of any repair.
- 6.1.3 Any repair must be registered in the *Motorsport Australia* Vehicle Log Book during initial scrutineering at the *Event* or test following the repair, by the *TD*.

T7 ENGINE

T7.1 Engine Modifications

- 7.1.1 The engine is a Type 1 part and once supplied, the engine, and all ancillaries supplied with it, must not be modified in any way.
- 7.1.2 Unless specifically authorised by these regulations, rework on any engine component is prohibited.
- 7.1.3 Unless expressly detailed in these regulations or with the written permission of *ARG* or the *TD*, the engine and associated components must remain exactly as produced and supplied by InnoV8 Race Engines, Stapylton, Queensland via *GRM*.

T7.2 Engine Sealing

- 7.2.1 The engine will be sealed by the application of *Seals* by engine supplier InnoV8.
- 7.2.2 Other *Seals* may be affixed by the *TD*.
- 7.2.3 Each *Competitor*, for each *Automobile*, must:
 - notify the *TD* of any damaged, worn or perished engine *Seal*; and
 - remove, modify or manipulate any engine *Seal* only with the permission of the *TD*.

T7.3 Engine Repair

- 7.3.1 Each *Competitor*, for each *Automobile*, will advise the *TD* of any engine issue relating to performance, fluid consumption or fluid leak in which case the engine will be inspected whilst maintaining the integrity of the engine *Seals*.
- 7.3.2 A repair that can be undertaken without removal of the engine may be done so only with approval of the *TD*.
- 7.3.3 If removal of the engine is required for repair, it must be done so in its entirety maintaining the integrity of the engine *Seals*.
- 7.3.4 Any engine repair may only be completed with the knowledge of and supervision by the *TD*/InnoV8.

T8 ENGINE CONSUMABLES

T8.1 Engine Oil and Coolant

Unless approved by *ARG*, only the engine oil/s and coolant and the volume of each as directed by *ARG* and the manufacturer are to be used at all times including at any *Round* and/or testing.

T8.2 Engine Filters, Belts

Only the engine filters, including inlet air filter and engine oil filter, and accessories drive belts as supplied according to the specifications of the engine manufacturer is permitted to be used.

T9 ENGINE COOLING SYSTEM

T9.1 Engine Coolant Radiator Pipework

Only the engine coolant radiator/s, associated pipe work and joiners as supplied by the manufacturer is permitted to be used.

T9.2 Engine Oil Cooler

Only the engine oil cooler, associated pipe work and joiners as supplied by the manufacturer is permitted to be used.

T9.3 Gearbox Oil Cooler

Only the gearbox oil cooler, associated pipe work and joiners as supplied by the manufacturer is permitted to be used.

T10 EXHAUST SYSTEM

Only the entire exhaust system as supplied by the manufacturer is permitted to be used.

T11 ELECTRICAL SYSTEM

T11.1 Modifications

- 11.1.1 The electrical system is a Type 1 part. Only the entire electrical system including the loom/s and the routing of the loom/s and location of the components as supplied by the manufacturer is permitted to be used.
- 11.1.2 Any repair may only be conducted, to/on any component of the electrical system including the loom/s, ECU and/or sensors, by the manufacturer or its appointed agent.

T11.2 Battery

- 11.2.1 Only the single battery and components as supplied by the manufacturer is permitted to be used.
- 11.2.2 Each *Competitor*, for each *Automobile*, must ensure that:

the on-board battery and starting system is capable of demonstrating at least 3 engine starts without external recharge, or assistance, at any time during the *Round*; and

a supplementary external source of energy is temporarily connected to the *Automobile*, utilising the supplied connector, to start the engine whilst in the pit area or on the grid prior to the formation lap at each *Round*.

Note: Fitment of the supplementary energy source whilst checking starting system capability is prohibited.

T11.3 Engine Control Unit (ECU)

- 11.3.1 Only the ECU, including software and components, as supplied by the manufacturer is permitted to be used.
- 11.3.2 Each *Competitor*, for each *Automobile*, must ensure that:

the ECU diagnostic connector is positioned in an accessible position within the *Cockpit* of the *Automobile* allowing the *TD* free access to it at all times including when the *Driver* is seated in the *Automobile* and fully prepared to take part in a *Track* session; and

they notify the *TD* of any damage or performance issue as soon as practical once identified.

T11.4 Sensors

- 11.4.1 It is prohibited to replace, relocate, or interfere in any way with any sensor.
- 11.4.2 Any additional sensor to those listed in the *Reference Documents* is prohibited.

T12 ENGINE IGNITION SYSTEM

T12.1 Spark Plugs

- 12.1.1 The standard production spark plug as supplied by the manufacturer must be used.
- 12.1.2 The location of the electrode tip will be in the standard position in the combustion chamber.

T12.2 Ignition Coil

The standard production coil-on-plug units as supplied by the manufacturer must be used and may not be repositioned. It is prohibited to use any other method or component to trigger, distribute or time the ignition.

T13 TRANSMISSION

T13.1 Flywheel and Clutch

Only the flywheel and clutch assembly including clutch plate, diaphragm and clutch actuating slave cylinder as supplied by the manufacturer is permitted to be used. Any modification to these components as supplied, other than normal wear from use, is prohibited.

T13.2 Gearbox

- 13.2.1 Each *Competitor*, for each *Automobile*, must ensure that:
- all casings and gearbox components, including shifter mechanisms, must be of original manufacturer supply; and
 - a reverse gear must be operable by the *Driver* at any time when the engine is running.
- 13.2.2 Gearboxes will be sealed by the supplier, Hollinger Engineering, Kilsyth South, VIC, prior to *Competition* and must remain sealed.
- 13.2.3 Unless approved by the *TD*, gearbox *Seals* must not be removed, modified or manipulated.
- 13.2.4 The oil level in the gearbox/drop-gear assembly must be maintained at the correct level as per the *Reference Documents*.

T13.3 Gearbox Ratios

Only the original gearbox ratios as supplied by the manufacturer are permitted as follows:

Final drive	32:10
Drop Gear	25:26
1 st	40:13
2 nd	36:16
3 rd	32:18
4 th	30:20
5 th	31:24
6 th	24:21

T14 SUSPENSION

T14.1 Springs

Only 1 pair of the 3 different rate pairs of front/rear springs supplied with the *Automobile* is permitted to be used at any time.

T14.2 Shock Absorbers

- 14.2.1 Only the JRi shock absorbers supplied with the *Automobile* are permitted to be used, which will be sealed.
- 14.2.2 Two-way adjustment using the standard mechanism is permitted.
- 14.2.3 At any time, and with reasonable notice, the *TD* may instruct a *Competitor* to remove the shock absorbers fitted to their *Automobile* and replace them with a set of shock absorbers as provided by *ARG*.

T15 FUEL SYSTEM

Only the complete fuel system, including tank, pump, filters, lines and required connections as supplied by the manufacturer is permitted to be used. Except for those components applicable under T2.1 and/or T2.3 of these regulations, any modification to the fuel system components as supplied is prohibited.

T16 BRAKES

Only the complete front and rear brake systems, including brake rotors, calipers, master cylinders, push rods, lines and required mounts/connections as supplied by the manufacturer and/or associated parts supplier is permitted to be used. Except for those components applicable under T2.1 and/or T2.3 of these regulations, any modification to the brake system components as supplied, other than wear from normal use, is prohibited.

T16.1 Brake Pads

- 16.1.1 Only the brake pads as detailed in the *Reference Documents* are permitted to be used.
- 16.1.2 Save for wear from normal use and any process of cleaning or de-glazing the brake pads, modification of the supplied brake pads is prohibited.

T17 WHEELS

- 17.1 Only the complete front and rear wheel and required mounting components as supplied by the manufacturer are permitted to be used. Except for painting of the outer surface, any modification to these components as supplied is prohibited.
- 17.2 A safety retention device must be in place on the wheel nut throughout the *Round* and must be in service after each wheel change. This safety retention device must be painted dayglow red or orange and be visible when a wheel is fitted correctly.

S5000



ATTACHMENT 1 – MARKINGS ON *AUTOMOBILES*

S5000

2023 DECAL PLACEMENTS

NOSECONE

- S5000 Nosecone Logo or space for Series Sponsor
- Nosecone Race Number (Maximum Area) - 250mm W x 200mm H
- Hoosier Nosecone Logo - 190mm W x 60mm H
- White Hoosier logo for dark liveries
- Black Hoosier logo for bright liveries/white/yellow etc

S5000

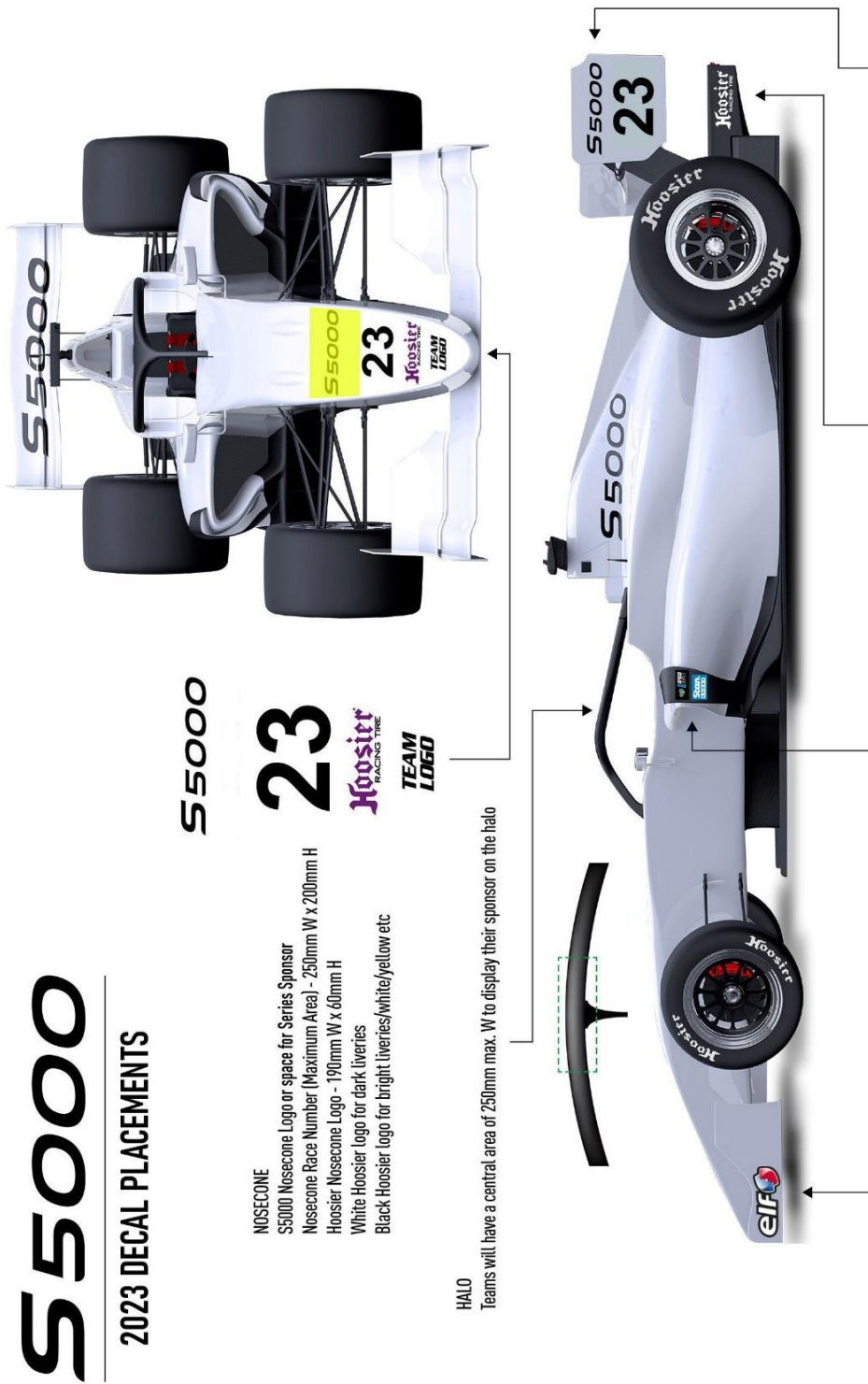
23



TEAM LOGO

HALO

Teams will have a central area of 250mm max. W to display their sponsor on the halo



FRONT WING ENDPLATES

Elf logo

Logo positioned between leading edge of endplate and wing adjuster holes



TURNING VANES (ROUNDS 1-3 ONLY)

SpeedSeries to fit area of 145mm H x 98mm W total



REAR CRASH STRUCTURE

Hoosier Logo sized as supplied.

S5000

REAR WING ENDPLATES

S5000 Rear wing endplate logos or space for Series Sponsor
Endplate Race Number is not restricted in size but there should be an even space between the top of the number and the S5000 logo, and the bottom of the number and the bottom of the endplate.

ATTACHMENT 2 - DEFINITIONS & ABBREVIATIONS

ARG	Australian Racing Group Pty Ltd.
CA	The Category Administrator as appointed by the CM.
Car Controller	A crew member who is responsible for the safe operation of an <i>Automobile</i> in the <i>Pit Lane</i> .
Championship	The 2023 S5000 Australian Drivers Championship Motorsport Australia Gold Star.
CM	The Category Manager for the <i>Championship</i> as appointed by <i>Motorsport Australia</i> .
Competition Number	The number used to identify each <i>Automobile</i> and as displayed on the <i>Automobile</i> in accordance with Technical Appendix - Schedule K of the <i>Manual</i> .
CRSR	Circuit Race Standing Regulations as promulgated by <i>Motorsport Australia</i> .
DSA	The Driving Standards Advisor appointed by <i>Motorsport Australia</i> .
GRM	Garry Rogers Motorsport.
Official	Any <i>Official</i> appointed to the <i>Event</i> by the <i>Organiser</i> , <i>Motorsport Australia</i> or the <i>CM</i> .
Pit Bay	The area in the 'working lane' of the <i>Pit Lane</i> that is allocated by the <i>Organiser</i> or <i>CM</i> to an <i>Automobile</i> where it must stop for work to be carried out if in the <i>Pit Lane</i> .
Pit Lane	All of the road in which the speed limit applies as indicated by the speed restriction sign at its beginning and the speed derestriction sign at its end. The <i>Pit Lane</i> includes the pit signalling area, the lane closest to the pit signalling wall called the 'fast lane' and the lane adjacent to the 'fast lane' called the 'working lane' which includes all of the <i>Pit Bays</i> .
Pit Garage	The structure allocated by the <i>Organiser</i> or the <i>CM</i> to an <i>Automobile</i> that is adjacent to the <i>Pit Lane</i> where it will be housed when not on the <i>Track</i> . The 'front' of the <i>Pit Garage</i> is the side of the <i>Pit Garage</i> that is adjacent to the <i>Pit Lane</i> .
Pit Stop	Any time that an <i>Automobile</i> is stopped in either its <i>Pit Bay</i> or <i>Pit Garage</i> in any session.
Precinct	The area within the perimeter of the <i>Event</i> venue.
Prescribed Line	A line, whether or not marked on the surface of the <i>Pit Lane</i> , which extends across the front of each <i>Pit Garage</i> .
Previously Marked Tyre	A tyre that has been officially marked/scanned by the <i>TD</i> or their nominee for use on an <i>Automobile</i> with the corresponding <i>Competition Number</i> , at a <i>Round</i> .
RD	The Race Director as appointed by <i>Motorsport Australia</i> .
Reference Documents	Technical documents listed in Article T1.2 of the <i>Championship</i> Technical Regulations.
RMC	Race Management Channel.
Round	A round of the <i>Championship</i> .
TD	The Technical Delegate as appointed by <i>Motorsport Australia</i> .
Team Manager	Authorised representative of the <i>Competitor</i> other than the <i>Driver</i> .