



## Sporting Regulations - Radical Cup

The Radical Cup (RC) which is open to all Radical race cars that comply with the technical regulations contained herein, will be run under the regulations of the UAE Sportscar Championship (UAESCC) with the exception of certain changes and supplementary regulations contained herein.

Where the requirements of the UAESCC regulations and these regulations conflict, these regulations shall apply for competitors competing in the RC. Any dispute over any conflict of the UAESCC regulations and these regulations shall be determined by the sole decision of the DAMC.

The changes in the regulations and supplementary regulations that apply to entries in the RC are detailed as follows using the paragraph references of the UAESCC regulations as reference only.

### 1.1 Title and Jurisdiction

The Radical Cup (RC) is organized, promoted and administered by AUH Motorsports in accordance with the requirements of the Automobile & Touring Club of the United Arab Emirates (ATC UAE) (incorporating the provisions of the International Sporting Code of the FIA) and the regulations of the UAE Sportscar Championship (UAESCC), these regulations and any further bulletins or event Supplementary Regulations (SR) issued officially by the Dubai Autodrome Motorsports Club DAMC.

The contact details for any further information, queries or to register an interest in competing in the Championship are as follows:

Radical Cup, Championship Coordinator, Elaine Bell

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## 1.4 Registration

### *Change to regulation*

**1.4.4** Drivers of eligible cars, wishing to enter both the UAESCC and the RC will be required to complete separate registration fees for each Championship and pay the sum of AED 1500 for each registration. Registrations for the RC will be accepted from the publication of these championship regulations.

### *Additional regulation*

**1.4.8** Drivers wishing to compete in individual race events that hold the applicable race licenses issued by an ASN other than one belonging to a GCC country and holding the correct start permission may do so by completing the relevant race entry form and paying the applicable race entry fee. Such competitors will be eligible for race trophies but will not be eligible to score Championship points.

## 1.5 Championship Events

### *Change to regulation*

**1.5.1** The Radical Cup will be contested over a scheduled 16 rounds at 8 race events. All events will take place in the UAE and will be scheduled as per the National racing calendar issued by the ATCUAE.

## 1.7 Awards

### *Change to regulation*

**1.7.1** All awards will be provided by Radical UAE.

## 2.4 Minimum race lengths

### *Change to regulation*

The standard scheduled race duration shall normally be approx 20 minutes. The organisers reserve the right to increase the race duration to 45 minutes at some scheduled events. Notification as to which events the increased race duration will apply will be notified in separate bulletin to be issued at a later date and giving not less than 30 days notice to competitors. In the event that a 45 minute race is run, a compulsory pit stop will be introduced and competitors will be afforded the option of competing with two drivers per car. Details of the pit stops and driver changes will be notified in the supplementary regulations. Should any race distance be reduced at the discretion of the Clerk of the Course or Stewards of the meeting, it shall still count as a full points scoring round.



## Technical Regulations

### *Change to regulation*

#### 1. INTRODUCTION

The following Technical regulations are set out by the organizers of the Radical Cup and it should be clearly understood that, IF THE FOLLOWING TEXTS DO NOT CLEARLY SPECIFY THAT YOU CAN DO IT, YOU SHOULD WORK ON THE PRINCIPLE THAT YOU CANNOT.

The word 'standard' used within these technical regulations as a description of components is to be interpreted as: -

The specified component from Radical parts list. No modifications permitted beyond the repair or adjustment processes specified by the manufacturer.

#### SCRUTINEERING

The organizer's Eligibility Scrutineer and his appointed deputy and is available to provide advice as well as ensuring that the regulations are strictly enforced to ensure fair play.

All cars must comply with the requirements as laid down in the technical regulations at all times, whether during official practice or racing and it is the Entrant's responsibility to ensure that all such requirements are met. Any infringement of the Technical Regulations will render the competitor liable to penalties as set out in Section 3 of these regulations.

#### 2. GENERAL DESCRIPTION

The Radical Cup is for cars of a single manufacturer, Radical Sportscars Ltd. which runs and are registered in the UAE Sportscar Championship.

The only cars eligible for the Radical Cup are:

##### **Clubsport Class**

Radical SR 4– with Powertec supplied 1340cc engine.

Radical SR3 – with PowerTec supplied 1340cc engine.

Radical PR6 Prosport – with PowerTec supplied 1300cc Suzuki engine.

Radical Clubsport – with Powertec supplied 1100cc Kawasaki engine.

##### **Supersport class**

Radical SR3 – with PowerTec supplied 1500cc engine.

Radical SR5 CN – with PowerTec supplied 2000cc Honda VTEC engine.

##### **Masters Class**

Radical SR8– with PowerTec supplied engine.

Radical SR8LM– with PowerTec supplied engine



All components fitted to the car must have been supplied by Radical Sportscars Ltd or an authorised Radical distributor and must be as per the manufacturers specification for the relevant car model.

**2.1. EXAMINATION OF VEHICLES**

The organizers reserve the right, before or after any race to designate any one or more of the competing cars for special eligibility scrutineering. Upon such election being made the competitor shall immediately place the car under the control of the organizers and be deemed to have permitted all such scrutineering, examination and testing as the organizers may responsibly require to undertake. The organizers have the right to:

- 2.1.1. Scrutineer the car to verify that all the components of the car are in accordance with the current Radical Cup regulations. The engine will be inspected to check for a Powertec seal and DAMC will obtain a detailed build history of the engine from Powertec. If a Powertec engine seal is not present the entrant must send the engine to Powertec for verification and / or rebuild to the relevant specification (at the cost of the entrant).
- 2.1.2. Examine the car at the circuit for such period as they may reasonably require and take fuel samples and/or
- 2.1.3. Retain the car for detailed examination at the organizer. If the organizers elect to retain the car they shall make it available for collection by the competitor at least seven days prior to the qualification session for the next race unless the car is found to be in breach of these regulations and/or seal the car and its components in such a manner as they may choose and require the competitor at their own expense to present the car for detailed examination within a specified period and/or remove the car by transporter at no expense to the competitor. The competitor will be advised in writing of the time, date and location of the subsequent testing or eligibility examination.
- 2.2. The overseen stripping of the engine or any required component will be undertaken by the competitor and/or mechanic/technician nominated by the competitor.
- 2.3. The organizers reserve the right to re-inspect vehicles at any time during the course of the season, should there have been a regulation infringement or circuit incident.
- 2.4. Competitors will be personally and solely responsible for ensuring that their cars comply with their registration details and with these regulations for each event at which they are entered. Failure to comply in either respect will be a breach of these regulations. Queries concerning eligibility should be referred in writing to the organizer's Eligibility Scrutineer at least seven days prior to an event entered, to permit a ruling in advance of any meeting at which it is intended to compete.
- 2.5. Tests to establish the power output of any car may be carried out by the organizers at a designated facility.

**3. SAFETY REQUIREMENTS**

As per Dubai Autodrome / Dubai Autodrome Motorsports Club Safety Criteria Regulations.

- 3.1. The HANS system is mandatory for all drivers in the Radical Cup. Drivers must also be able to show an appropriate FIA HANS tether anchor sticker inside their crash helmet on an FIA



approved HANS compliant crash helmet. This will be with accordance with FIA Technical list 29.

- 3.2. There will be no dispensations. If any driver is unable to wear the device for medical or other reasons their entry will be refused. It is advised that all drivers use HANS compliant seat belts to maximize the added safety of the HANS system.

#### **4. CHASSIS**

- 4.1. Powder-coated tubular steel space frame with aluminium panels and integral roll over bar completely standard and unaltered from the specification of Radical Motorsport Ltd, the vehicle manufacturer. This includes thickness of panels and rivet spacing.
- 4.2. Towing point must be marked "TOW" on both front and rear of the car.
- 4.3. A standard factory fitted Radical crash box must be fitted for Radical Cup events.

#### **5. BODYWORK / AERODYNAMICS**

- 5.1. Any Aerodynamic device manufactured by Radical Sportscars for the particular model, listed on the Radical international order form may be fitted as supplied i.e. front splitter, front diffuser, dive planes, single plane rear wing, double plane rear wing, rear diffuser or roll bar fairing
- 5.2. Ground Clearance The minimum ground clearance is 40mm.
- 5.3. Heat shielding of bodywork adjacent to the exhaust is permitted inside the engine compartment.

#### **6. ENGINE / TRANSMISSION**

- 6.1. All engines/gearbox/clutch units are prepared and sealed by Powertec Engineering (UK). All repairs and rebuilds must be undertaken by Powertec.
- 6.2. Permitted engines
  - 6.2.1. **Master Class**
    - 6.2.1.1. SR8-380 bhp Powertec 2600cc RPA V8 engine
    - 6.2.1.2. SR8LM-460 bhp Powertec 2800cc RPA V8 engine
  - 6.2.2. **Supersport class**
    - 6.2.2.1. SR 3-260 bhp Powertec Suzuki 1500cc K8
    - 6.2.2.2. PR6- 260 bhp Powertec Suzuki 1500cc
    - 6.2.2.3. SR 4-260 bhp Powertec Suzuki 1500cc K8
    - 6.2.2.4. SR 3-252 bhp Powertec Suzuki 1500cc K7
    - 6.2.2.5. SR5- 250 bhp Powertec Honda V tec 2000cc
  - 6.2.3. **Clubsport class**
    - 6.2.3.1. SR3- 210 bhp Powertec Suzuki 1340cc K8
    - 6.2.3.2. PR6- 210 bhp Powertec Suzuki 1340cc
    - 6.2.3.3. SR4- 210bhp Powetec Suzuki 1340cc K8
- 6.3. The starter and generator system must be fitted as standard.



**7. COOLING SYSTEM:**

- 7.1. The oil and water radiators as supplied by Radical or an official Radical distributor must be retained. An oil to water heat exchanger may be fitted as can an electric water pump. It is permitted to blank off the radiator to control temperature.

**8. INDUCTION SYSTEM:**

- 8.1. The induction system including fuel injection, carburettors, ram-air box & filter must be standard for the engine. It is permitted to change the main jets only.
- 8.2. The entire induction system including carburettors, injection system must be standard for the engine. The standard airbox as supplied by Radical Sportscars must be retained and used.

**9. EXHAUST SYSTEM:**

- 9.1. The exhaust system including silencer must be standard for the engine as supplied by an official Radical distributor.

**10. IGNITION SYSTEM:**

- 10.1. The standard factory supplied ignition must be retained. It is not permitted to reprogram the ECU.
- 10.2. The Championship organizers reserve the right to supply a replacement ECU to the top three Championship leaders prior to each event which the competitor must replace upon request. Drivers must surrender their ECU to the organizer within the 3 day period before the race day when requested.
- 10.3. It is permitted to heat shield the ECU but this must not restrict the removal of the ECU from the car when requested

**11. FUEL DELIVERY SYSTEM:**

- 11.1. The standard fuel pump as supplied by Radical or an official Radical distributor must be retained.
- 11.2. Heat shrink or heat insulation of fuel lines, wiring looms and wires may be fitted. This must be easily removable for inspection when fitted.

**12. SUSPENSION:**

- 12.1. The front and rear suspension is of a unique double-wishbone, pushrod construction with a Nik-link anti-roll system.
- 12.2. Dampers must be supplied by Radical or an official Radical distributor.
- 12.3. Spring rates front and rear are free. Alternate springs, front anti roll links and rear anti roll bars, supplied by an official Radical distributor may be used.



### **13. TRANSMISSION:**

13.1. The standard integral gearbox as supplied by Radical Sports cars must be used.

#### **13.1.1. SR3:**

13.1.1.1. Drive is via a Quaife-built gear drive system. Interchangeable gears are available from an official Radical distributor. Gear drive oil cooler is recommended. Optional pneumatic paddleshift system is allowed.

#### **13.1.2. Clubsport and PR6.**

13.1.2.1. Drive is via chain drive with limited slip differential and integral reverse. Final drive sprockets are available from 46 to 50 tooth. Optional pneumatic paddleshift system is allowed.

#### **13.1.3. SR5:**

13.1.3.1. Drive is via a gear drive system. Interchangeable gears are available from an official Radical distributor. Gear drive oil cooler is fitted as standard to the Radical SR5. Optional pneumatic paddleshift system is allowed.

#### **13.1.4. SR8:**

13.1.4.1. Drive is via either a Quaife or Hewland -built gear drive system. Interchangeable gears are available from an official Radical distributor. Gear drive oil cooler is recommended. Optional pneumatic paddleshift system is allowed.

13.2. Alternative gearbox ratios supplied by Radical or an official Radical distributor are permitted

### **14. ELECTRICS**

#### **14.1. EXTERIOR LIGHTING:**

14.1.1. A full race lighting system, supplied by Radical or an official Radical distributor, may be fitted.

#### **14.2. REAR FOG WARNING LIGHT:**

14.2.1. Optional.

#### **14.3. BATTERY:**

14.3.1. An electrically powered starter motor and battery are mandatory and must be operable by the driver when normally seated and capable of repetitive starts.

#### **14.4. ALTERNATOR:**

14.4.1. Must be standard as supplied by an official Radical distributor, and be in working order.

#### **14.5. DASHBOARD INSTRUMENTS:**

14.5.1. The standard solid state dashboard or the optional Radical supplied Steering wheel Instrument System may be fitted. All data loggers supplied by Radical Sportscars are permitted. However, these will be used for driver's guidance only. Official times will be provided by the official timekeeper. The fitting of a transponder, as supplied by the Dubai Autodrome, is mandatory.

#### **14.6. PIT TO CAR RADIOS**

14.6.1.1. Pit to car radio systems are permitted as per the DAMC Supplementary Regulations.



## 15. BRAKES

- 15.1. Standard four-pot callipers front & rear.
- 15.2. Optional lightweight 280mm x 25mm or 300mm x 25mm, floating disc upgrades provided by Radical Sportscars are permitted.
- 15.3. Only brake pads supplied by Radical or an official Radical distributor may be fitted and random checks may be made.
- 15.4. A cockpit adjustable bias adjuster is permitted.

## 16. WHEELS AND STEERING

- 16.1. Three piece, split rim, centre lock wheels or cast wheels as supplied by Radical Sportscar.

### 16.2. DIMENSIONS:

- 16.2.1. Radical Clubsport- Front 13" x 6" Rear 13" x 9"
- 16.2.2. Radical PR6 - Front 13" x 7" Rear 13" x 9"
- 16.2.3. Radical SR3 - Front 15" x 8.0" Rear 16" x 10.5"
- 16.2.4. Radical SR5 - Front 15" x 8" Rear 16" x 10.5"
- 16.2.5. Radical SR8 - Front 15" x 8.0" Rear 16" x 10.5"
- 16.2.6. Steering wheel diameter may be changed to suit driver's preference, and must be supplied by Radical or an official Radical distributor.

## 17. TYRES

- 17.1. Dunlop tyres are mandatory control tyres for the Radical UAE Cup events and must be supplied by DAMC. These tires are uniquely identified and may be checked at Scrutineering. Tire size and compound must be as above.
- 17.2. The use of a Control Tire Registration Form may be used at any point in the season. This will be presented to the driver at sign on.
- 17.3. Except for the first race in which a car is entered, and races of 45 minute duration, a maximum of 4 new slick tyres may be used per race weekend. Slick tyres used in events may be used in subsequent events
- 17.4. At the first race weekend that a car is entered, and at events where there are races of 45 minute duration, a maximum of 8 new slick tyres may be used.
- 17.5. There are no restrictions on the number of wet weather tyres that may be used
- 17.6. In the event of a puncture or incident requiring a new wheel/tyre the eligibility scrutineer must approve the change and the control tyre registration form must be amended.
- 17.7. The use of tire heating or heat retention devices is prohibited. Any form of Chemical tire softener is also prohibited.

## 18. FUEL TANK AND FUEL

### 18.1. FUEL:

- 18.1.1. Only locally available pump fuel available to the general public is permitted. DAMC reserve the right to mandate the use of control fuel or pump fuel supplied by the Dubai Autodrome fuel station. The use of commercially available Racing Fuels, power boosting or octane boosting additives by competitors in any fuel is prohibited.



**18.2. LOCATION OF THE FUEL TANK:**

18.2.1. The fuel tank may not be relocated from its original position.

**18.3. TYPE OF FUEL TANK AND FITTINGS:**

18.3.1. Cars must be equipped with fuel tanks and aviation quality fittings which comply with or exceed FT3 1999 safety specifications, and must comply with the prescriptions of FIA Article 253. Tanks must be supplied by an Official Radical distributor

**18.4. RANDOM FUEL TESTING**

18.4.1. The organiser reserves the right to take a fuel sample. This will only be done after official practice or racing at the race weekend. To allow comparison testing to be carried out, competitors must have a minimum of 3 litres of fuel left in the fuel tank at the end of any session.

**19. SILENCING**

19.1. Only the exhaust system and silencer as fitted or supplied by Radical or an official Radical distributor may be used. Vehicles must at all times during an event be silenced to meet a maximum level of 105 dB(A) at  $\frac{3}{4}$  maximum rpm, measured at 0.5m from the end of the exhaust pipe with the microphone at exhaust outlet level at an angle of 45 degrees. Where more than one exhaust outlet is present the test will be repeated for both outlets and the higher reading taken. The inclusion of temporary parts to achieve silencing requirements is prohibited.

**20. COMPETITION NUMBERS/DECALS**

20.1. Racing numbers, UAE Sportscar Championship Title Sponsor decals, and Event Sponsor decals must be affixed to the vehicle as directed by the organizers. Failure to comply will render the car ineligible.





## Registration Form

Name of driver	
Address	
City/Town	
P.O.Box	
Contact No:	
Mobile No:	
Email address:	
Nationality:	
Race license No:	
Issued by	
Name of Entrant (If different)	
Address	
City/Town	
P.O.Box	
Contact No:	
Mobile No:	
Email address:	
Nationality:	
Entrant license No:	
Issued by	



Address for all correspondence	Driver Entrant (Delete which inapplicable)	
Previous experience of driver		
Car details		
Make	Radical	
Model		
Year		
Chassis number		
Fuel cell make		
Fuel cell FIA Number		
Transponder Model		
Transponder number		
Class entered	Clubsports Supersports SR8 (Delete which not applicable)	
Preferred car Number	N.B. Numbers will be issued on a first come first served basis at the discretion of the organisers	

I hereby certify that all of the information provided by me above is accurate and true.

*(The Series regulations, Judicial arrangements and Commercial Undertakings are to follow and a registration fee as stated in the regulations will be levied on acceptance of these, to enter the Championship.)*

Name..... Signature..... Date.....

Once completed, this form must be submitted prior to the first event entered to;

Elaine Bell

Radical Cup Championship Co-ordinator

c/o DAMC, Dubai Autodrome, P.O. Box 24649, Dubai, United Arab Emirates

or email to [elaine@auhmotorsports.com](mailto:elaine@auhmotorsports.com)