



# **2019 BLUE MARBLE COCKTAILS RADICAL CUP NORTH AMERICA TECHNICAL REGULATIONS**

**DRAFT**

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## 1. REGULATIONS OVERVIEW

1.1 Radical Cup North America is a single brand race series for Radical Sportscars complying with these technical regulations.

These Regulations are set out in accordance with standard principles and it must be clearly understood that, if the following texts do not clearly specify that you can do it, you must work on the principle that you cannot. Therefore, everything that is not specifically authorized and anything not specified in these regulations or any championship bulletin is strictly forbidden.

Each Radical model is manufactured to an identical class specification. In the interests of fairness and safety, competitors may not depart from this specification under any circumstances, other than as specified in these regulations.

All Radical parts must be supplied by Radical Sportscars or its appointed agents/dealers/distributors and fitted in their original position and as supplied, unless specifically stated in these regulations. Parts may only be fitted to the appropriate designated model.

Whilst the Technical Delegate is empowered to check all competing vehicles for compliance and has been provided with the data to determine the continuing eligibility of each car, the onus of responsibility for the eligibility of vehicles competing in this Championship, rests with the entrant/Competitor.

In the event of a dispute concerning the compliance of a vehicle with these Regulations, the onus will be on the Entrant/Competitor to satisfy the Organizers with regards to such compliance, and NOT the organizers to prove non-compliance.

## 2. VEHICLE MANUFACTURER

2.1 Radical Sportscars  
24 Ivatt Way Business Park  
Westwood, Peterborough PE3 7PG  
United Kingdom

Tel: +44 1733 331616  
Fax: +44 1733 264959  
Email: sales@radicalsportscars.com  
Website: www.radicalsportscars.com

## 3. ELIGIBLE CARS

3.1 The following table lists chassis and engine combinations eligible in each class.

Class	Radical Model	Engine Type / Capacity	Chassis Numbers
Masters	SR8	RPE 2.7L V8	069 and above
	SPYDER	RPE 2.9L V8 / 3.0L V8 / EcoBoost	All
	RXC	RPE 2.9L V8 / 3.0L V8 / EcoBoost	All
1500	SR3 RS	RPE 1500	400 to 929
	SR3 RSX	RPE 1500	930 and above
1340	SR3 RS	RPE 1340	400 to 929
	SR3 RSX	RPE 1340	930 and above
Invitational	SR1 MY2017	RPE 1340	All
	Other	Other	All



#### 4. EVENT INSPECTION

- 4.1 All Vehicles must be available for inspection during the scheduled inspection times.
- 4.2 All driver safety equipment must be presented during the inspection.

#### 5. ANNUAL INSPECTION

- 5.1 Any vehicles presented for their first event must also undergo an Annual Inspection.

#### 6. DRIVER SAFETY EQUIPMENT

- 6.1 All equipment must be valid, unmodified, meet the following standards and pass scrutineering checks at each event.

Equipment	Standard	Notes
Helmets	FIA Standard 8859-2015 FIA Standard 8860-2004 FIA Standard 8860-2010 FIA Standard 8860-2018 FIA Standard 8860-2018 ABP Snell Standard SA2010 Snell Standard SAH2010 Snell Standard SA2015 Snell Standard SAH2015	Must be full face.
Drivers Overalls	FIA Standard 8856-2000 FIA Standard 8856-2018	
Frontal Head Restraint	FIA Standard 8858-2002 FIA Standard 8858-2010 SFI 38.1	The installation angle must be as homologated.
Gloves	FIA 8856-2000 SFI 3.2A/5	Must be made of leather and accepted fire-resistant material.
Socks	FIA 8856-2000 SFI 3.2A/5	Must be made of accepted fire-resistant materials.
Balaclavas or Helmet Skirts	FIA 8856-2000 SFI 3.2A/5	Must be made of accepted fire-resistant materials. Any exposed hair must be completely covered by the protective clothing.
Shoes	FIA 8856-2000 SFI 3.2A/5	Must be constructed with leather uppers and / or nonflammable material that at a minimum cover the instep. Ventilation pinholes by the manufacturer are allowed.

- 6.2 Each driver will be required to display Championship specific logos, provided patches available, in the specified locations on their racing overalls at all times during each Event and test sessions immediately preceding the Event in accordance with the diagram set out in Appendix 4.

Drivers presenting with non-compliant overalls (including competing series logos) will receive one warning per season. A \$500 fine will be issued to the driver for each occurrence after that Event. Drivers standing on the podium with non-compliant overalls will forfeit any prize money, without a warning.

#### 7. DRIVER RESTRAINT

- 7.1 Safety Belts must be of 6-Point design with appropriate expiration dates complying with FIA Standard 8853/98 or 8853-2016.



- 7.2 The lap and crotch straps shall only pass through the seat. All lap straps must fit tightly in the bend between the pelvic crest and the upper thigh. Under no circumstances must they be worn over the abdomen.
- 7.3 It must be ensured the Safety Belts will not be damaged by way of chafing on sharp edges, interference, twisting or edge loading.

## 8. SEAT AND HEAD REST

- 8.1 Only unmodified seats as supplied by Radical Sportscars are permitted and must be rigidly mounted to the vehicle.
- 8.2 Any material covering seat including driver seat inserts must be of an approved fireproof material. Any foam inserts must meet the material, location and sizes in FIA Appendix J Article 257A.

## 9. FIRE EXTINGUISHER SYSTEMS

- 9.1 An FIA approved Fire Extinguisher System must be fitted and operational at all times when on circuit, and must:
- Have secondary external cut-off switch marked by an 'E' fire decal of diameter 10cm.
  - Be charged, serviced and recertified by the manufacturer every two years.
  - Must have a current label showing valid dates.

## 10. MINIMUM CAR WEIGHT AND WEIGHING

- 10.1 The minimum weight of the car plus driver with all required safety equipment at any time during competition shall be:

Class	Radical Model	Engine Type / Capacity	Weight
Masters	SR8	RPE 2.7L V8	810 kg
	SPYDER	RPE 2.9L V8 / 3.0L V8	890 kg
		EcoBoost	1075 kg
	RXC	RPE 2.9L V8 / 3.0L V8 / EcoBoost	1160 kg
1500	SR3 RS & RSX	RPE 1500	710 kg
1340	SR3 RS & RSX	RPE 1340	710 kg
Invitational	SR1 MY2017	RPE 1340	580 kg
	Other	Other	n/a

- 10.2 Any Ballast must be properly secured to the chassis and sit within the bodywork. It is recommended the Radical supplied FIA approved Ballast Mounting System is used.
- 10.3 During each practice, qualifying and race session cars will be weighed as follows:
- The official scales will be identified, and typically located at the Radical Cup North America scrutineering area.
  - Every endeavor will be made to make the scales available to teams when not in official use.
  - Cars may be selected following any session to undergo the weighing procedure, and teams informed.
  - Having been signaled for weighing, the car must proceed directly to the weighing area.
  - The car will then be weighed and the result given to the Crew Chief.
  - A car or driver shall not leave the weighing area without the consent of the Technical Delegate or his designee.
- 10.4 Drivers may be requested to weigh-in at the beginning of the event so that they need not be present during official weighing. Should the result be marginal, the Technical Delegate may request the driver's presence to confirm results. Additionally, if a driver wishes to leave his car before it is weighed, he must ask the Technical Delegate to weigh him in order that this weight may be added to that of the car. In both cases the Technical Delegate will tell the driver his weight and, once the driver leaves parc fermé, this will be deemed implicit acceptance of the figure.



- 10.5 The relevant car may be disqualified should its weight be less than that specified in Article 10.1 of the Sporting Regulations when weighed under Article 10.2 or 10.3 above, except where the deficiency in weight results from the accidental loss of a component of the car.
- 10.6 No solid, liquid, gas or other substance or matter of whatsoever nature may be added to, placed on, or removed from a car after it has been selected for weighing or has finished the post-race scrutineering or during the weighing procedure. (Except by a scrutineer when acting in his official capacity).
- 10.7 Only scrutineers and officials may enter the weighing area. No intervention of any kind is allowed there unless authorized by such officials.
- 10.8 In the event of any breach of these provisions for the weighing of cars the Stewards may drop the driver such number of grid positions as they consider appropriate or exclude him from the race.

## 11. RIDE HEIGHT

- 11.1 The minimum ground clearance is 40mm. Under no circumstance can any part of the bodywork or of the suspended car (with exception of breather tube) be below a horizontal plane passing 40mm above the ground.
- 11.2 At the sole discretion of the Technical Delegate, measurement allowances may be made for a car with severe body damage, chassis damage or suspension damage.
- 11.3 Official measurements are taken from a flat patch or area designated and identified, and gauge or tool of 40mm.
- 11.4 Ground clearance will be measured at a standard pressure of 28psi.

## 12. SOUND LIMIT

- 12.1 Noise generated by the car must not exceed local track regulations. The onus is on the competitor to ensure they comply with these regulations.
- 12.2 Under extreme circumstances competitors may be asked to fit fuel cell foam of a prescribed size in the airbox of the cars, and/or Supertrapp device to their exhaust, at their cost. No modification may be made to the prescribed or supplied components.

## 13. SEALS

- 13.1 It is the competitor's responsibility to ensure all mandatory seals are officially sealed and recorded prior to qualifying.
- 13.2 Broken or incorrect seals to those recorded may result in a penalty including disqualification. A team wishing to break a seal, shall make a request to the Technical Delegate prior to breaking a seal.

## 14. NON-COMPLIANT PARTS

- 14.1 Any vehicles found to have non-compliant parts during or after official sessions are subject to a penalty.
- 14.2 It is at the sole discretion of the Technical Delegate to judge to whether a non-conforming part will be subject to penalty. Such decision and penalty are not subject to protest or appeal.
- 14.3 Minor infractions may be dealt with a 'repair order' expected to be carried out by the next event.
- 14.4 Non-compliant parts are subject to seizure by Radical Sportscars Ltd and/or SCCA Pro Racing, and may not be returned.

## 15. CHASSIS

- 15.1 Radical Sportscars powder coated tubular steel space frame chassis with aluminum panels and integral roll over bar completely standard and unaltered. This includes thickness of panels and rivet spacing.



- 15.2 Towing Points must be fitted conforming to FIA Appendix Art 259.14.6
- 15.3 The collapsible crash box structure supplied by Radical Sportscars must be fitted to the chassis during all events.
- 15.4 All Radical models are manufactured to a standard specification and may not be altered. All chassis repair work must be carried out by Radical Sportscars Ltd.

## 16. BODYWORK / AERODYNAMICS

- 16.1 Only aerodynamic devices manufactured by Radical Sportscars for a particular model may be fitted to that model as supplied, i.e. front splitter/diffuser, dive planes, rear wing, rear diffuser, nose, tail and roll hoop fairing.
- 16.2 Any SR3 RS car manufactured before April 31, 2014 cannot be fitted with SR3 RSX bodywork or rear wing.
- 16.3 Any SR3 RSX car cannot be fitted with SR3 RS bodywork or rear wing.
- 16.4 Any SR8 car constructed prior to 01 January 2017 cannot be fitted with the MY2017 SR8 bodywork kit.

## 17. ENGINE

- 17.1 The following table lists all accepted Engines and Throttle Body combinations.

Class	Radical Model	Engine Type / Capacity	Throttle Body
Masters	SR8	RPE 2.7L V8	
	SPYDER / RXC	RPE 2.9L V8 / 3.0L V8	
		EcoBoost	
1500	SR3 RS	RPE 1500 Gen 1	42 mm
	SR3 RS	RPE 1500 Gen 2	42 mm
	SR3 RSX	RPE 1500 Gen 3 (Short Stroke)	45 mm
	SR3 RSX	RPE 1500 Gen 4	45 mm
1340	SR3 RS / RSX	RPE 1340 Gen 2	42 mm
Invitational	SR1 MY2017	RPE 1340	
	Other	Other	

- 17.2 All engines, including any integral gearbox and clutch units, are only to be prepared, repaired, rebuilt and sealed by Radical Performance Engines or an authorized Radical Engine Rebuilder for Radical Sportscars Ltd;
- Powertec America (Spring Mountain Racing)
  - Team Stradale
  - Radical Canada East
  - Radical Canada West
- 17.3 All engine auxiliaries, including the starter, generator and ignition system must be Radical parts fitted as standard.
- 17.4 Radical Sportscars Ltd technicians are at liberty to take random oil samples at their discretion to confirm adherence to oil specifications. Failure to conform to recommended oil specification and service intervals would render the engine warranty null and void.

## 18. TRANSMISSION

- 18.1 On SR8 cars, a separate gearbox catch bottle must be fitted, located near the gearbox breather and connected by braided hose.



- 18.2 The Radical Pneumatic paddle operated shift system may be fitted.
- 18.3 The reverse drive system as supplied by Radical Sportscars must be retained and operational by the driver when seated in the driving position at all times.
- 18.4 The final drive system must be standard as supplied by Radical Sportscars. Drive ratios may only be adjusted by changing sprockets/gears supplied by Radical Sportscars.

## 19. COOLING SYSTEM

- 19.1 The oil and water radiators as supplied as standard by Radical Sportscars must be retained.
- 19.2 It is permitted to tape off the radiators to control the temperature.
- 19.3 Pre-heating of oil and water is permitted.
- 19.4 It is permitted to 'hang' radiators to prevent them from wearing through the sidepod.
- 19.5 It is permitted to add rubber to protect oil and water lines from chaffing.

## 20. INDUCTION SYSTEM

- 20.1 The entire induction system including injector system must be standard Radical parts for that engine. The standard air box and filter as supplied by Radical Sportscars must be retained and used. Refer to 17.1 for approved throttle bodies.
  - a) Previous generation SR8 (Chassis number 241 and below) cars must run the RX induction system.
  - b) Any SR3 RS manufactured before April 31, 2014 (Chassis 400 to 929) cannot be fitted with SR3 RSX throttle bodies.
- 20.2 Heat resistant tape may be applied to the airbox.
- 20.3 Officials may mandate the use of foam blocks in the air box to aid in meeting sound restrictions. These blocks must be used as supplied and may not be modified in any way.

## 21. EXHAUST SYSTEM

- 21.1 The exhaust system including silencer must be standard as supplied by Radical Sportscars for that model/ generation.
  - a) Any SR3 RS manufactured before April 31, 2014 cannot be fitted with SR3 RSX exhaust manifold or exhaust system.
- 21.2 Coating or wrapping of the Exhaust is not permissible.
- 21.3 Officials may mandate the addition of a noise quietening product to the exhaust systems. These must be used as supplied and may not be modified in any way. **Minor modification of the original standard system to attach the prescribed noise quieting product is permitted.**





**22. IGNITION SYSTEM**

- 22.1 The standard Radical Sportscars ECU must be retained. It is not permitted to reprogram the ECU. The Technical Delegate may on a regular basis supply a replacement ECU, which the competitor must change on request.
- 22.2 The ECU must be located in the position as supplied from the factory.
- 22.3 Heat shielding the ECU is permitted but it must not restrict the removal when required.

**23. FUEL DELIVERY SYSTEM**

- 23.1 The standard fuel pump as supplied by Radical must be retained.
- 23.2 Heat shrink or heat insulation of fuel lines, wiring loom and wires may be fitted. This must be easily removable for inspection, if required.

**24. FUEL TANK**

- 24.1 Fuel tank as supplied by Radical Sportscars must be retained and unmodified.
- 24.2 Each car must be fitted with a Radical Fuel testing ‘T’ piece plus a Radical dry break valve fitted to the fuel line to facilitate safe fuel testing.
- 24.3 Only fuel from the official Fuel Supplier as listed under Article 24 is permitted and must be used at Ambient Temperature as supplied. The use of any other blend, additive or manufacturer is prohibited.

**25. OFFICIAL FUEL**

- 25.1 The official fuel is Gulf Racing Fuel supplied by Hyperfuels. Only the specified fuel is permitted for use in each class:

Class	Fuel
Masters	Gulf Racing Fuels Radical 100 Unleaded
1500	Gulf Racing Fuels Radical 100 Unleaded
1340	Gulf Racing Fuels Radical 93 Unleaded
Invitational	Gulf Racing Fuels of appropriate specification

- 25.1 All fuel must be pre-ordered at least 14 days prior to each event ‘load in’ date using the online form. Late orders will likely incur a surcharge. Please contact:

HYPERFUELS, Distributor of Gulf Racing Fuels  
 12455 Westpark Drive #G-6  
 Houston, Texas 77082

Phone: 281-496-5100  
 Fax: 281-496-5101

Email: sales@gulfracing.net  
 www.gulfracingfuels.com

- 25.2 Random fuel testing, including but not limited to Dielectric, Specific Gravity, Acid test and Gas Chromatography, may occur at each event. Data will be compared to that supplied from the manufacturer.



**26. SUSPENSION**

- 26.1 All cars may be fitted with AVO or INTRAX shock absorbers supplied by Radical Sportscars. No modifications to internal specifications are permitted.
- 26.2 Spring rates front and rear are free.
- 26.3 Alternate front anti-roll bars and rear anti-roll bars as supplied by Radical Sportscars, may be used.
- 26.4 The front and rear suspension is double wishbone. With the exception of the RXC and SPYDER, the front and rear suspension is fitted with the unique Nik-Link anti-roll system.

**27. BRAKES**

- 27.1 General Only brake pads as supplied by Radical Sportscars may be fitted.

Class	Radical Model	Brakes Permitted
Masters	SR8	4 pot caliper, 280mm vented steel discs front and rear Optional 300mm vented steel discs
	SPYDER / RXC	6 pot front and 4 pot rear caliper, 360mm front and 330mm rear vented steel discs Optional 350mm front and 310mm rear vented steel discs
	RXC GT3	6 pot front and 4 pot rear caliper, 380mm front and 330mm rear vented steel discs
1500/1340	SR3 RS / RSX	4 pot caliper, 260mm vented steel discs front and rear Optional 300mm vented steel discs
Invitational	SR1 MY2017	
	Other	Other

- 27.2 Any SR3 RS manufactured before April 31, 2014 cannot be fitted with SR3 RSX brakes or brake lines.
- 27.3 RXC and Spyder models may be fitted with the Bosch M4 ABS and traction control system as supplied from Radical Sportscars.
- 27.4 The fitting of a cockpit adjustable bias adjuster as supplied by Radical Sportscars is permitted.
- 27.5 The fitting of brake duct grills is optional.
- 27.6 **It is permitted to use tape to regulate the amount of air flowing through brake ducts.**
- 27.7 Radical Sportscars and the Technical Delegate may allow extra brake cooling to be fitted to cars based on specific track conditions. This will be notified by a Technical Bulletin issued to all teams for a specific event only.



**28. WHEELS AND STERRING**

28.1 Only single piece wheels as supplied by Radical Sportscars of the following specification are permitted.

Class	Radical Model	Front Wheel Size	Rear Wheel Size
Masters	SR8	15 x 8 inch	16 x 10.5 inch
	SPYDER	17 inch	18 inch
	RXC / GT3	17 inch	18 inch
		18 inch	18 inch
1500/1340	SR3 RS / RSX	15 x 8 inch	16 x 10.5 inch
Invitational	SR1 MY2017	13 inch	13 inch
	Other	Other	Other

28.2 Wheels must be cleared identified with the car number.

28.3 Only Steering wheels as supplied by Radical are permitted. Diameter may be changed to suit drivers' preference.

**29. TYRES**

29.1 Only official Hankook tires supplied by Hankook Race Tires and purchased via a Radical Dealer may be used.

Radical Model	Front Dry Tire	Rear Dry Tire	Front Rain Tire	Rear Rain Tire
SPYDER / RXC	Ventus (slick) 235/620 R17 F200	Ventus (slick) 300/660 R18 F200	Ventus (tread) 235/620 R17 Z207	Ventus (tread) 300/660 R18 Z207
RXC GT3	Ventus (slick) 260/660 R18 F200		Ventus (slick) 260/660 R17 Z207	
SR8 / SR3	Ventus (slick) 200/580 R15 F200	Ventus (slick) 260/610 R16 F200	Ventus (tread) 200/580 R15 Z217	Ventus (tread) 260/610 R16 Z217
SR1 MY2017	Ventus (tread) 160/530 R13 Z205	Ventus (tread) 195/530 R13 Z205	Ventus (monsoon) 160/530 R13	Ventus (monsoon) 195/530 R13
Other	Other	Other	Other	Other

29.2 A maximum of 8 slick tires may be used for qualifying and for racing. Serial numbers from these tires must be declared on the Radical Championship Tire form. Identical copies of this form are to be retained by the team/driver and submitted to the Technical Delegate prior to the start of qualifying. Usage of the declared tires during qualifying and the races rests solely with the competitor.

29.3 For practice prior to Qualifying tire usage is unrestricted, but tires must comply with Article 29.1.

29.4 Wet weather tire quantities are unrestricted, but tires must comply with Article 29.1

29.5 Should the Technical Delegate deem a tire or tires unsafe for racing the competitor will be permitted to purchase replacement tire(s), or nominate free practice tire(s) for use. If the replacement tire(s) puts the competitor over the permitted tire allocation, then for the following race the competitor will forfeit 5 championship points per tire over and above the allocated number.

29.6 Any modification or treatment to the tire including cutting, grooving, the application of water, solvents or softeners, the use of heat/cool generating or retaining devices on the tire, or any means to artificially enhance the tire



performance is prohibited.

Samples may be taken from the tire tread for analysis and comparison with a tire taken directly from the supplier's stock. The sampling procedures will be similar to those for fuel sampling, see Sporting Regulations for details.

- 29.1 Tires may only be inflated with air or nitrogen.
- 29.2 All tire valves must be fitted with valve caps, during all sessions at the event.
- 29.3 When necessary the organizers may set a maximum wheel camber setting, toe setting and tire pressures as directed by the Tire Manufacturer. This will be communicated by Championship Bulletin and may require parts to be sealed by the Technical Delegate. Failure to comply with specified values will warrant the vehicle ineligible.
- 29.4 All tires, when under the control of a team, must remain visible within the team's designated paddock or transporter area at all times.
- 29.5 Teams are not permitted to check tire pressures and temperatures in pit lane once the session or race has ended.
- 29.6 Tires must be ordered well in advance of the event. Official dealers are as follows:

<p>CALIFORNIA - RADICAL NORTHWEST                  Sonoma Raceway,                  29681 Arnold Drive L5,                  Sonoma, CA 95476                  Anthony Ward                  mail@radicalnorthwest.com                  +1 (415) 716-6666  <a href="http://www.radicalnorthwest.com">www.radicalnorthwest.com</a></p>	<p>ILLINOIS - TEAM STRADALE                  Autobahn Country Club,                  3795 Centerpoint Way,                  Joliet, IL 60436                  Francesco D'Avola                  info@teamstradale.com                  +1 (815) 727-7234  <a href="http://www.teamstradale.com/">www.teamstradale.com/</a></p>	<p>NEVADA - SPRING MOUNTAIN RACING                  Spring Mountain Motorsports Ranch,                  3601 NV-160,                  Pahrump, NV 89048                  Sean McGray                  sean@springmountainracing.com                  +1 (775) 727-6363  <a href="http://www.springmountainmotorsports.com">www.springmountainmotorsports.com</a></p>
<p>TEXAS - MOORESPEED                  7910 Burleson Rd,                  Bldg 2,                  Austin, TX 78744                  Price Cobb                  PriceCobb@moorespeed.com                  +1 (512) 474 7223  <a href="http://www.moorespeed.com/">www.moorespeed.com/</a></p>	<p>VIRGINIA - WISKO RACE ENGINEERING                  Virginia International Raceway,                  1112 Ace Drive,                  Alton, VA 24520                  Danyel Torres Delgado                  info@wiskoracing.com                  +1 (844) GO-WISKO  <a href="http://www.wiskoracing.com">www.wiskoracing.com</a></p>	
<p>CANADA - WEST                  August Luxury Motorcars                  884 McCurdy Place, Kelowna,                  British Columbia V1X 8C8                  Dave Cormier                  dave@radicalcanadawest.ca                  +1 (250) 888-0208  <a href="http://www.radicalcanadawest.ca">www.radicalcanadawest.ca</a></p>	<p>CANADA - EAST                  7033 Telford Way,                  Unit 23 Mississauga,                  Ontario L5S 1V7                  Robert Burgess                  robert@radicalcanada.ca                  +1 (416) 420-0057  <a href="http://www.radicalcanada.ca">www.radicalcanada.ca</a></p>	

- 29.7 Trackside tire fitment service contact:

Hankook Race Tire  
 10808 FM 1625  
 Austin, TX 78747

Danny Van Dongen  
[info@hankookracetire.com](mailto:info@hankookracetire.com)  
 +1 (305) 809-0356



**30. EXTERIOR LIGHTING**

30.1 The minimum front lighting kit must be retained, and be turned on in all sessions, as specified in the table below.

Class	Radical Model	Lighting Kit
Masters	SR8	Headlight buckets, covers and 1 pair of running / driving lights.
	SR8 MY2017	Headlight buckets, covers and LED Arrays.
	SPYDER / RXC	Headlight buckets, covers and 1 pair of running / driving lights.
1500/1340	SR3 RS	Headlight buckets, covers and 1 pair of running / driving lights.
	SR3 RSX	Headlight buckets, covers and LED Arrays.
Invitational	SR1 MY2017	Headlight buckets, covers and LED Arrays.
	Other	Other

30.2 Brake lights must be fitted and in working order, and must not be wired in a way that allows them to be switched off.

**31. TAIL AND RAIN LIGHTS**

31.1 Radical Sportscars' high intensity LED rear lamps must be installed, and in working order, two lights installed equi-spaced about the vehicle centerline emitting the equivalent of a 15 watt blub, or a single high intensity FIA Approved LED rear light must be fitted and working. When Wet tires are fitted then the car MUST run with its high intensity LED rear light switched on.

**32. ELECTRICS**

32.1 A Battery and electrically powered starter motor are mandatory and must be operable by the driver when normally seated and capable of repetitive starts.

32.2 Alternator must be standard as supplied by Radical Sportscars, and be in working order.

**33. DATA MOINTORING**

33.1 All vehicles are required to record data for series Officials and provide data upon request. Radical supplied AIM dataloggers, and LIFE engine management systems are mandatory and must be in full working order. No other data logging systems are permitted.

33.2 **Minor modification to dash-display mounting to improve angle/visibility is permitted.**

**34. VIDEO CAMERAS**

34.1 The fitting of a forward-facing camera is mandatory. It must be securely mounted on the roll bar, positioned to record an unobstructed view of both the driver's hands on the steering wheel and the forward field of view from the cockpit. Please refer to Sporting Regulations for Video Procedure.

34.2 Minimum camera resolution is 180p at 30fps, with super wide FOV.

34.3 Approved cameras are:

- a) AIM SmartyCam HD
- b) GoPro Hero 3 or Newer
- c) Vbox Video HD
- d) ReplayXD



**35. TIMING TRANSPONDER**

- 35.1 SCCA Pro Racing requires the use of MyLaps timing transponders which must be fitted to the car in the approved location and be operating properly during all official and un-official practice, qualifying sessions and races. Cars without properly operating transponders will not receive official time.
- 35.2 Transponders, if wired, shall be directly connected to master electrical switch, with no other switches inline.
- 35.3 Transponders must be orientated vertically (arrow pointing down towards track) and LED visible, mounted less than 60cm (2ft) from the ground and less than 60cm (2ft) from the front axle centerline.
- 35.4 Transponder must have clear view to track surface. If mounted above a carbon or metal floor, a 75mm x 75mm square hole is permitted and required for clear transmission. This hole can be covered with a Kevlar or Fiberglass patch.

**36. CAR LIVERY AND NUMBERS**

- 36.1 Each car must carry the race number of its driver as published by Radical Sportscars Ltd. The number and panel must be contrast with each other and car color. The number panel, supplied by Radical Sportscars Ltd, may not be modified without approval of Radical Sportscars Ltd and must be placed on the nose of the car and on each sidepod.
- 36.2 All car numbers are owned by Radical Sportscars Ltd. A Competitor may be granted the use of a car number.
- 36.3 All Competitors desiring a particular car number must make a written request to Radical Sportscars Ltd. Radical Sportscars Ltd will not guarantee a request will be granted.
- 36.4 After a car number is assigned to a particular Competitor, it will remain with that Competitor for the remainder of the season.
- 36.5 The required car number locations must be clearly visible as determined by Radical Sportscars Ltd. Car livery must meet the style guidelines. Initial and subsequent number plates will be issued at events.
  - a) Nose – The number panel should be placed as low as possible for visibility, preferably on the center pontoon. (see Appendix 3).
  - b) Sidepods – The number panel must be located on the side, preferably between the front wheel and the Radiator inlets, inches (see Appendix 3).
- 36.6 All aspects of the car number including, without limitation, height and width must be approved by Radical Sportscars Ltd prior to use.
- 36.7 Competitors must display the name of the driver and his national flag on the bodywork, on the outside of the cockpit. These must be clearly legible and located as determined in Appendix 3.
- 36.8 Areas of the car Livery defined by Appendix 3 are exclusively for the series and sponsor decals.
  - a) Radical Series and Sponsors decals issued for the current year must be affixed without modification to the vehicle.
  - b) Decals from previous years or other series are not permitted.
- 36.9 Both faces of the secondary (Top) wing element of the rear wing must be fitted with 4 inch stripes on both the left and right sides of the following colors:
  - a) Masters Class (M) Dayglo Yellow
  - b) 1500 Class (S) Dayglo Orange
  - c) 1340 Class (C) Dayglo Green



- a. Radical Sportscars Ltd may, in its sole discretion, rule as to the suitability of a particular car, team or driver livery. This may include, but not be limited to, the advertising of tobacco products or any livery advertising not in keeping with the spirit of the Championship. Competitors are required to consult with Radical Sportscars Ltd in case of any questions.

### 37. TEAM UNIFORMS AND TRAILERS

- 37.1 Each team member holding a hot pit credential will be required to display Championship specific logos, provided patches available, in the specified locations on their crew shirts at all times during each Event in accordance with the diagram set out in Appendix 4. Team members in non-compliant team shirts (including competing series logos) will receive one warning per season. A \$500 fine may be issued to the Competitor for each occurrence after that Event.
- 37.2 Trailer livery must comply with Appendix 3.

