



**Technical Regulations for  
Western Australian Superlites Association (Inc)  
Events**

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## **1. General Requirements**

All buggies entered for first-time day competition shall be subject to independent risk assessment by the Chief Scrutineer to decide on their suitability for that event.

The Chief Scrutineer may specify modifications and/or conditions that buggy and driver must meet prior to being permitted on the track.

For the Clarification on any point you should contact a club representative

### **1.1 Log Books**

- 1.1.1 Each competing vehicle will be issued with a WASA Log book after inspection and approval by a scrutineer. All alterations and repairs must be recorded and approved by a scrutineer.
- 1.1.2 No vehicle will be permitted to take part in the event unless it has passed scrutiny.
- 1.1.3 Scrutiny of competition vehicles will take place at the venue on the day of the event.
- 1.1.4 Log books will be held by the scrutineer for the duration of the event.
- 1.1.5 Any competing vehicle involved in an incident must present to the scrutineer for re-inspection.
- 1.1.6 Any competing vehicle involved in an incident must complete an incident/accident report form

## **2. Buggy Classes**

### **2.1 Entry Level**

- 2.1.1 All buggies entered for first-time day competition shall be subject to independent risk assessment by the Chief Scrutineer to decide on their suitability for competition.
- 2.1.2 The Chief Scrutineer may specify modifications and/or conditions that the buggy and driver must meet prior to being permitted on the track.

### **2.2 Clubman Class**

- 2.2.1 Engine capacity restricted to 600cc maximum Minimum of two rear wheels braking
- 2.2.2 Each vehicle shall have front and rear roll over protection to form a four point cage. Alternative designs at scrutineer's discretion
- 2.2.3 Four point harness,
- 2.2.4 All Vehicles are required to have a rear facing light with an amber lens that is activated by the isolation switch. The light must have a lens area of at least 25 square cm.
- 2.2.5 All Vehicles are required to have a rear facing light with a red lens that is activated when applying the brakes. The light must have a lens area of at least 25 square cm.
- 2.2.6 Battery Isolation switch,
- 2.2.7 ATV tyres,
- 2.2.8 Maximum weight 350 kg
- 2.2.9 Examples include Chinese buggies, Fun Karts, Trax II, Odysseys and Sidewinder

### **TBA**

The Western Australian Superlites Association is currently working on a Two Seat Class for buggies that fit the superlite mould. The intention is to accommodate, small engine 2 Seat Joyner and similar turnkey production models.

For any information regarding whether your two seat buggy complies please contact a committee member.

## **2.3 Superlite**

- 2.3.1 Superlites are characterised by their high power-to-weight ratio, being restricted to motorcycle, ATV or Snowmobile engines of up to 1400cc capacity and having a weight limit of 600 kg.
- 2.3.2 Examples include Honda Pilot, Piranha, Mongoose, Drakart, Rorty R6/81, Barracuda and variants.
- 2.3.3 Due to their weight and the speeds they can attain, additional design requirements are specified for the Superlite class buggies. These are detailed in the following section.

## **2.4 Superlite Pro**

- 2.4.1 Cams Compliant motor cycle engine buggies,
- 2.4.2 Cams log booked buggy's only compete in this class
- 2.4.3 Rules as per Cams Prolite Specifications,
- 2.4.4 No Maximum wheel diameter or weight restrictions

### **3. Superlite Design Specifications**

#### **3.1 Dimensions**

- 3.1.1 The maximum permitted overall width measured across the outer most points of the front or rear tyres (whichever is greater) is 2000mm.
- 3.1.2 The maximum permitted overall length measured longitudinally between the outer most points of the frame or tyres (whichever is greater) is 3200mm.

#### **3.2 Frame, Roll Cage and Body**

- 3.2.1 Each vehicle shall be constructed as a space frame of steel tubes and shall incorporate a safety cage consisting of a minimum of two full roll bars or equivalent, front and rear of the driver to form a four-point cage around the driver. All welding must be to industrial standards with full penetration and around the complete circumference/ perimeter of the tube.
- 3.2.2 Main roll hoops to be a minimum of 31.8 mm diameter mild steel tube with a minimum wall thickness of 2.1 mm.
- 3.2.3 The rear main roll hoop must contain 2 diagonally opposed braces to form an "X" extending from the top two corners to at least the hip rail. It is recommended they extend to the lower chassis rail.
- 3.2.4 The rear main roll hoop, or equivalent, must contain a metal firewall at least the height of the engine, to separate the engine compartment from the driver's cockpit. The firewall must be a minimum of 2mm aluminium or 1.6mm steel and it is to be securely mounted to the frame.
- 3.2.5 Each component not comprising part of the safety cage may be constructed from either CHS or RHS steel tube.
- 3.2.6 Frame bars that may come into contact with the driver must be fitted with suitable padding. All tube ends must be capped and no sharp edges are permitted.
- 3.2.7 Any hole made in a tube of the frame must be reinforced by a crush tube of at least the same wall thickness as the primary tube.
- 3.2.8 Each bend in the tubes must be smooth and free of kinks. The minimum bend radius is 3 times the diameter of the tube. There shall not be a reduction in the diameter of the tube due to distortion of more than 10%

- 3.2.9 The safety cage must incorporate side impact protection. It is recommended that this take the form of a diagonal brace between the intersection of the rear roll bar and the hip rail to the intersection of the front roll bar and the lower chassis rail.
- 3.2.10 The safety cage shall incorporate protection for legs and feet.
- 3.2.11 The safety cage must be designed so that it does not restrict the driver from entering or exiting the vehicle. There must be a minimum of 2 points of exit on each vehicle.
- 3.2.12 Where any Horizontal Roof Rail exceeds 500mm it must be reinforced with a diagonal brace to the rear main roll hoop. Vehicles manufactured with 37.8 CDS minimum of 700mm
- 3.2.13 A Roof Plate must be fitted made from a minimum of either 1.2 mm steel or 2.6 mm aluminium. The Roof Plate must extend from the front to rear roll hoop and span the roof bars.
- 3.2.14 When the driver is correctly seated in the restrained position there must be a minimum of 50 mm clearance between the driver's helmet and the roof plate.
- 3.2.15 All vehicles shall be fitted with a floor pan extending from the rear of the driver's seat to the front of the machine encompassing the full width of the chassis. Minimum material thickness is 1.2mm steel or 2.6mm aluminium. The floor pan must be securely bolted or welded in place.
- 3.2.16 Body panels if fitted must be securely mounted by at least three points. Drilling of the frame or the use of self-threading screws to affix body panels is prohibited. Driver access must not be hampered by the fitting of body panels. Exposed Sharp edges will not be accepted.
- 3.2.17 A rear wing may be fitted. It must not be wider than the chassis and must be securely mounted with a minimum of four bolts (minimum size of 8mm diameter) or pins/ clips as approved by the Scrutineer.

### **3.3 Fuel and Fuel System**

- 3.3.1 The fuel tank must be mounted within the confines of the chassis or roll cage, and be separated from the driver by a firewall. The roll cage and / or supporting bars must protect it from damage during a rollover.
- 3.3.2 The Fuel Tank shall be securely mounted to the frame. Vibration dampening mounts are recommended.
- 3.3.3 Fuel Tanks mounted on Side Pods shall be protected to prevent puncture or rupture.
- 3.3.4 The Fuel Tank must be constructed of a minimum of 1.2 mm steel or 2 mm aluminium. It must have a leak proof filler cap.
- 3.3.5 The fuel system must be fitted with a suitable valve to permit isolation of the fuel supply. Where the buggy is fitted with an inline or tank-mounted electrical fuel pump, power supply to the pump must be automatically cut when the engine is stopped.
- 3.3.6 All Vehicles must be fitted with a fuel tank roll over valve or vent pipe that is of non-spill design.
- 3.3.7 Fuel lines must be of material specifically designed for the carriage of fuel.  
  
The fuel lines must be securely fastened at each end, and be entirely contained within the confines of the chassis. The entire fuel system must be separated from the driver by a firewall. (Copper lines are not permitted)
- 3.3.8 The only Fuel type permitted is Unleaded Pump Fuel. All other types and additives are prohibited.
- 3.3.9 All Vehicles required to be fitted with a minimum of a 1A:20BE AS/NZS 1841.5 approved 1 KG Fire Extinguisher in a suitable bracket fixed within reach of the driver and others.

### **3.4 Electrical and Lighting**

- 3.4.1 Where fitted, batteries shall be a sealed design, securely mounted and protected from the risk of impact. Terminals are to be covered and protected from inadvertent contact with conductive materials.
- 3.4.2 Each vehicle must be fitted with an isolation switch located on the dash panel within reach of the driver and clearly marked as "Battery Isolation". Cable operated switches are permitted.
- 3.4.3 Each vehicle must be fitted with a manually operated kill switch, comprising of a red missile switch cover, capable of stopping the running engine and easily recognisable as power off to safety and event officials. This must be capable of operation by the driver whilst seated and restrained
- 3.4.4 Electrical power from the battery (excepting the starter cable) shall be protected by a fuse or fusible link located as close as practicable to the battery on the positive lead.
- 3.4.5 All Vehicles are required to have a rear facing light with an amber lens that is activated by the isolation switch. The light must have a lens area of at least 25 square cm.
- 3.4.6 All Vehicles are required to have a rear facing light with a red lens that is activated when applying the brakes. The light must have a lens area of at least 25 square cm.
- 3.4.7 Red and Amber lights must be fitted within 200mm of the top of the safety cage.

### **3.5 Seating**

- 3.5.1 Seats must be securely mounted to the vehicle chassis by a minimum of four (4) x Grade 8, M8 bolts or larger. Adjustable seat slides are not permitted.
- 3.5.2 Seats must be of a design suitable for off road racing.
- 3.5.3 All Vehicles must be fitted with a minimum of a 5-point racing harness with a single point quick release. The strap width is to be a minimum of 50mm.
- 3.5.4 Seats must incorporate a headrest or a separate headrest must be fitted to the safety cage behind the driver's helmet covered in high-density foam. Minimum area for a separate headrest is 150 square cm.

### **3.6 Braking**

- 3.6.1 All vehicles are required to have a minimum of hydraulically controlled 4 wheel braking. (Copper lines are not permitted)
- 3.6.2 Dual Circuit braking system (Single calliper for fixed rear axle and independent front)

### **3.7 Exhaust**

- 3.7.1 The Exhaust Pipe must be securely attached and inside a line from the top of the safety cage to the outside of the top of the rear tyre. Vibration dampening mounts are permitted.
- 3.7.2 Exhaust systems must be silenced to a maximum of 95 db when measured 30 metres from the edge of the track under competition conditions.
- 3.7.3 Not forward facing or down

### **3.8 Engine**

- 3.8.1 Engines may be of a single or multi cylinder motorcycle, ATV or snowmobile design, 2 or 4 stroke up to a maximum total capacity of 1400 cc.
- 3.8.2 Car engines are not permitted.
- 3.8.3 Forced Induction is permitted however such engine will be determined to have a capacity of 1.5 x the engines stated capacity.
- 3.8.4 Any buggy fitted with a gearbox must have a neutral gear.
- 3.8.5 Radiators must be mounted securely within the confines of the frame, mounted towards the rear and as far from the driver as possible, shrouded in such a way as to prevent the driver from being scalded in the event of a release of coolant.
- 3.8.6 Radiator caps must be of two-stage safety design.

### **3.9 Wheels and Tyres**

- 3.9.1 The Maximum permitted overall tyre diameter is 710mm or 28 inch determined by the manufactures markings
- 3.9.2 Tyre and wheel choice is otherwise unrestricted.

### **3.10 Nerf Bars**

- 3.10.1 Each vehicle must be fitted with Nerf Bars between the front and rear wheels to minimise the possibility of wheel entanglement.
- 3.10.2 Nerf bars must extend in width to at least the centre of the rear tyre and not beyond the outside edge of the rear rim.
- 3.10.3 The minimum tube size for Nerf Bars is 25mm x 1.6mm steel or 25mm x 3 mm aluminium.
- 3.10.4 Nerf Bars may be removable, but when fitted must be securely attached to the frame at three points in a triangular fashion (e.g. Attached front and rear to the lower chassis rail and braced upward to the frame. Minimum two points (Clubman), three recommended)
- 3.10.5 Tube ends must be capped and there must be no sharp edges.

### **3.11 Miscellaneous**

- 3.11.1 Mirrors if fitted should be made of a shatter resistant material. With the exception of Headlights, if any glass is used in the vehicle it must be covered with a clear adhesive material.
- 3.11.2 Each vehicle must carry Identification Numbers visible from each side. Numbers to be a minimum of 150 mm high in Black on a White Background. (Minimum height from ground to prevent Mud cover being above hip rail)
- 3.11.3 Split Pins, R Clips, safety wire or Self Locking Nuts must be fitted to the bearing retaining nut on each axle and tie rod end.