

## **2010 PORT ANGELES SPEEDWAY SPORTSMAN MIDGET CLASS DISCLAIMER**

### **RULE BOOK DISCLAIMER**

The Rules and/or Regulations set forth herein are designed to provide for the orderly conduct of Auto Racing Events and to establish minimum acceptance for such Auto Racing Events.

These rules shall govern the condition of all Events, and by participating in these Events, all Participants are deemed to have Complied with these rules.

### **NO EXPRESS, OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATION OF OR COMPLIANCE WITH THESE RULES AND/OR REGULATIONS.**

It is the responsibility of the driver of the car to see that his car completely satisfies the rules, including but not limited to all safety rules. The driver of each car represents to the owner, promoter and all others that his car has satisfied all applicable rules, including but not limited to safety rules, whenever such driver participates in a warm-up, practice, or competitive laps.

### **THESE RULES AND/ OR REGULATIONS ARE INTENDED AS A GUIDE FOR THE CONDUCT OF THE SPORT AND ARE IN NO WAY A GUARANTEE AGAINST INJURY OR DEATH OF A PARTICIPANT, SPECTATOR, OFFICIAL OR OTHERS.**

The Port Angeles Speedway Officials shall be Empowered to permit minor Deviation from any of the Specifications or Rules herein, or impose any further Restrictions that, in there opinion, do NOT alter the minimum acceptable requirements.

### **NO EXPRESS, OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF THESE SPECIFICATIONS OR RULES**

Any Interpretation of or Deviation from these Specifications or Rules is left to the Discretion of the Officials. Their Decision is final.

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## **PORT ANGELES SPEEDWAY SPORTSMAN MIDGET CLASS RULES 2010**

Safety for spectators, officials, drivers, and crew is our first concern. Fire, flying debris, and impact injuries. Keep these thoughts in mind when you are stripping and building your vehicle.

The Driver of each car represents to the Owner, Promoter and all others, that his car has satisfied all applicable rules, including but not limited to safety rules, whenever such Driver participates in any warm-up, practice, or competitive laps.

The Driver of each car is also completely responsible for **all** actions of Crew Members, Sponsors, or all else signed under their number.

If you have any complaints, disputes, problems, or questions, only the Driver and Crew Chief, Driver and Car Owner, or Driver and one representative from your team may approach an Official, in a civil manner, to resolve the situation. Any other Crew Members doing so could be placed on probation, fined, or suspended.

Although the Sportsman Midget class is designed to be an upper level class, competitors are reminded they are racing before the paying public the same as the other classes.

**All participants are expected to take pride in being part of Port Angeles Speedway's Weekly program. Auto racing entertainment is what we have to offer and we will not tolerate the lack of professional attitude, conduct or appearance of car, Driver, Crew or others involved.**

Use of prohibited parts may result in fine, loss of that night's points and/or disqualification to the Driver and/or Owner.

Any prohibited or illegal part found would become the property of Port Angeles Speedway. The Port Angeles Speedway officials will determine what is to become of the prohibited or illegal part once the entire race season has been completed.

All construction rules will be decided by Port Angeles Speedway Technical Officials. Their decision will be final on all construction rules. Burden of proof on any concern will be the responsibility of the Driver and Car Owner. These rules are a guideline. Contact the Port Angeles Speedway Technical Officials for final approval of your racecar. The Port Angeles Speedway Sportsman Midget division is designed to promote greater interest in open wheel and stockcar competition, and to enable those with moderate means to participate in the 2008 Port Angeles Speedway season

## **Sportsman Midget Rules 2010**

### ***Safety Rules:***

1. **Helmet** ---
  - a. Helmets are required and must be Snell **SA2000** or newer carrying a valid, orange SA2000 or newer, standard Snell sticker. Helmet must be worn at all times car is on the track and must accompany vehicle at time of inspection. Helmet must be in good condition with NOMEX lining recommended.
  - b. No open face helmets.
  - c. Any helmet involved in an accident is subject to re-verification for safety.
2. **Seat Belts/Harness** --- Must be 5-point, 3 inch design with quick latch system. Must be in good condition with date and specification label no more than 3 years old. Subject to inspection at any time.
3. **Arm Restraints** --- Mandatory and in good condition. Subject to inspection at any time.
4. **Neck Brace / HANS Devise** --- Driver must have a fire retardant racing neck brace or HANS style device while driving car. Subject to inspection.
5. **Uniform** --- NOMEX (or equivalent) fire suite mandatory. Fire proof gloves, shoes, underwear (or multi-layer suit) and head sock are required. Subject to inspection.
6. **Steering Wheel** --- Racing type steering wheel with padding in the center of the wheel. Quick Release recommended.
7. **Roll Cage** --- Sufficient padding mandatory in the roll cage area of the driver's head and arms. Fire retardant padding recommended. Cage net recommended.
8. **Seats** ---
  - a. Should be mounted to the chassis with grade eight bolts.
  - b. Seat bottoms shall be reinforced with an overall metal plate equivalent to a minimum of 0250 5052 aluminum.
  - c. Shall provide adequate lateral support to both left and right sides as well as back. High back seats only. Headrest must be part of the seat.
9. **Fuel Shut Off** --- Must have clearly marked On/Off switch. Fuel shut off must be within easy reach of the driver.

### ***Car Specifications***

1. **Wheelbase** --- Shall be 68 inches to 76 inches. This is measured from the center of the front wheel hub to the center of the rear axle hub.
2. **Car Width** --- Maximum car width shall be no more than 68 inches. This is measured from the outside tire edge to the opposite tire outside edge.

3. **Car Weight** --- The minimum car weight shall be 1200 lbs. including driver and all safety equipment at all times. The maximum car weight shall be 1600 lbs. with driver and all safety equipment at all times.
4. **Frame** ---
  - a. Frame to be constructed of no less than 1 ½ x .120 wall mild steel tubing of grade 1020 or better for the frame rails and roll cage loop. If 4130 chrome moly is selected 1 ¼ x .095 is acceptable for the roll cage.
  - b. Midget frames will be used and produced by an authorized frame builder. No home made frames allowed.
5. **Roll Cage** ---
  - a. Shall have front (rear or side) continuous loops with cage welded to the frame rails and gusseted at the corners.
  - b. Triangulation of the roll cage shall be such as to prevent possible collapse.
  - c. Any part of the roll cage or frame shall have adequate size gauge eight fasteners to prevent separation.
  - d. All welds to be inspected annually.
6. **Nerf Bars** ---
  - a. Shall be installed to prevent a competitors tire from entering the space between your front tire and rear tires on either side of the car.
  - b. Shall be continuous loops and shall not have any sharp or exposed tubing edges so as to not damage another competitor's tires.
  - c. Shall extend no further than the outside edge of the rear tires and shall start no further than six inches from the outside of the rear tire.
7. **Bumpers** ---
  - a. Front bumper shall be made of continuous steel tubing loops no wider than the frame rails
  - b. Rear bumper shall be made of continuous steel tubing loops no wider than the frame rails and shall have a predominate horizontal bar.
8. **Suspension** ---
  - a. All four corners of the chassis shall be suspended from some type of moveable suspension. (I.e. coil over shocks, torsion bars, springs, etc.)
  - b. All four corners of the chassis will be dampened by some type of shock absorber. Any brand or type is allowed. (No driver adjustable shock systems permitted.)
  - c. All suspension parts, steering, and chassis components shall be fastened with grade 5 bolts with positive locking nuts.
9. **Steering** ---
  - a. Steering box shall be of factory production or aftermarket racecar units only.
  - b. Knee padding must be installed onto the steering box located in the cockpit. It can range from knee guards to approved roll bar padding.
  - c. Steering box may be mounted in any location as deemed by the car builder as long as the steering system is engineered to prevent lock up.
  - d. No more than one inch of free play is allowed.
  - e. Power steering unites are allowed.
10. **Brakes** ---
  - a. All cars shall have a minimum of three or four brakes depending on rear end type. Two fronts and two rear brakes on automotive rear end cars, and two fronts and one on the rear on quick change cars.
  - b. Brake pedal shall be firm upon application of pressure.
  - c. Brake system shall be hydraulically operated with the use of DOT 3 or better brake fluid.
  - d. All brake systems are subject to inspections. Any car failing brake inspection will not be allowed to compete until the system meets safety standards.
11. **Wheels** ---
  - a. Shall be of metal type. Racing or DOT approved. No carbon fiber wheels allowed.

- b. 13 inch wheel diameter only. 12 inch maximum width.
  - c. Shall be fastened to the hubs with a minimum of three lug nuts on the front tires and six lug nuts on the rear wheels. Knock off hubs are allowed.
12. **Tires** ---
- a. Maximum tire diameter is 30 inches.
  - b. Racing tires are allowed on all four wheels.
  - c. Economy retreads are allowed.
13. **Mirrors** --- No mirrors of any type are allowed.

### ***Drive Train***

1. **Clutches** ---
- a. Clutch cover shall be attached to the flywheel with grade eight shoulder bolts and lock washers.
  - b. Cars with clutches shall be equipped with a blow-proof bell housing.
2. **Rear End** ---
- a. Quick Change rear ends are recommended on all cars.
  - b. Automotive rear ends are allowed as long as they meet the width requirements.
  - c. It is recommended that all axles be magnefluxed once a year.
3. **Transmission** ---
- a. Shall be of automotive production units.
  - b. Modifications to transmissions are limited to bell housing adapter and shortening to fit the frame.
4. **Drive Shafts** ---
- a. Shall be looped with an adequate material to prevent injury to the driver's legs if the universal joint fails.
  - b. Shall be fully enclosed in the driver's compartment.

### ***Bodies***

1. **Bodies** ---
- a. Full body midget type. Hood, nose, side panels, tail tank, arm guards (optional). No side wings, sails, etc. permitted.
  - b. Shall be securely fastened to the chassis or roll cage.
  - c. If carburetor protrudes through the hood, adequate clearance for the linkage shall be maintained.
2. **Firewall** ---
- a. All cars shall have an adequate firewall of at least .030 materials between the drivers and the engine.
  - b. All excess holes in the firewall shall be plugged.

### ***Fuel System***

1. **Fuel** ---
- a. Shall be gasoline or methanol alcohol only.
  - b. No Nitrous Oxide, Nitro Methane, Hydrazine, etc.
2. **Fuel Pumps** ---
- a. May be either electronic or mechanical.
  - b. Electric fuel pumps shall energize and disable with the ignition switch.
  - c. Use of an oil pressure kill switch is highly recommended.
3. **Fuel Line** ---
- a. Fuel lines from the tank to the carburetor shall have braided stainless interior or exterior hose.

- b. All fuel lines shall be securely fastened to prevent entanglement from any moving items in its vicinity.
  - c. Fuel tank shut-off valve is required, and it is recommended that it is mounted in the driver's compartment with easy access.
4. **Tail Tanks** ---
- a. Fuel cells or bladders are mandatory and must be race approved.
  - b. Tails and tail tanks are to be securely fastened.
  - c. If a tail tank is used for gasoline, break away fuel couplers are recommended.
  - d. If methanol alcohol is used, tail styles with approved bladders must be used.
  - e. Tanks and Bladders must be mounted behind the driver, between the frame rails.
  - f. Foam inside fuel cells is mandatory.
  - g. Fuel cells must have a tip over valve to prevent fuel spills in case of a roll over.

## ***Electrical System***

- 1. **Batteries / Ignition** ---
  - a. Cars shall have a battery in full charge condition at the beginning of race night.
  - b. Batteries shall be securely fastened to the frame and shall be fully covered to prevent acid leaks.
  - c. No acid filled batteries shall be permitted in the driver's compartment.
  - d. All cars use an original equipment distributor. Distributor modifications and add-on aftermarket ignition is permitted
  - e. Magnetos are prohibited.
- 2. **Wiring** ---
  - a. No bare, unfastened, or unused wire is allowed.
  - b. All wires shall be of the proper gauge to handle the electrical capacity needed by the vehicle without overheating.

## ***Engines***

- 1. **Engine Blocks** ---
  - a. Shall be automotive production units only. No aftermarket copies of factory SVO units.
  - b. No rotary or two stroke engines allowed.
  - c. Engine displacement shall be no larger than 2000cc. 2 liters with a .040 oversized clean-up bore. De-stroking and bore sleeving of oversize engines to achieve this is limit is not permitted.
  - d. The formula for finding engine displacement shall be (bore radius x bore radius) x 3.1216 x stroke x number of cylinders.
  - e. Engines will be of stock production type of at least 5 years old.
  - f. Stock production crankshaft and rods only on 2 liter engines. 1800cc and smaller engines may use aftermarket steel rods as long as stock production specs are maintained.
  - g. Stock definition ---
    - i. Drive train parts shall be considered stock if they are manufactured to the original equipment specs of the manufacturer.
    - ii. Performance parts may be installed into engines if and only if they are offered by the manufacturer as a factory installed option available from their dealers.
  - h. No dry sumps allowed.
  - i. Engine availability limited to those models sold in North America.
- 2. **Cylinder Heads** ---
  - a. All cylinder heads shall be of the same make as the engine block and may not be an aftermarket copy of the original casting. No larger than stock valves permitted on 2000cc engines.

- b. Porting, polishing and port patching is permitted.
  - c. No more than four valves per cylinder shall be allowed.
  - d. Cam modifications are permitted.
  - e. 1800cc and smaller engines may use larger than stock valves.
  - f. Single cam 2000cc engines may use larger heads, as long as they are not aftermarket heads. (Example: 2000cc block with 2300cc head) The head must not be altered in any way to bolt on and must use the stock valves for that head.
3. **Carburetion / Manifolds** ---
- a. Carburetors shall meet the following specs to be allowed. No more than 40mm throat size at the butterflies and no more than two throats allowed on 2000cc engines.
  - b. 1800cc and smaller engines may use 500cfm Holly carburetor or a maximum of 44mm carburetor with two throats. Use of 4 barrels is allowed with a 30mm throat size maximum.
  - c. Stock fuel injection to the specific engine is allowed.
  - d. Carburetor linkage shall not go over center with the butterflies in wide-open position.
  - e. A minimum of two return springs are required, one at the carburetor and one at the pedal.
4. **Exhaust Systems & Mufflers** ---
- a. Header size and length are open to the builder's discretion.
  - b. Mufflers are required 95db @ 100 feet. All cars shall have a muffler of some type. Sound levels shall be maintained by the owner-operator and it shall be their responsibility to maintain legal sound levels throughout the race program.
  - c. Mufflers must be securely fastened to the car. No car will compete without a muffler.
5. **Cooling System** ---
- a. All liquid cooling systems shall have catch tanks to catch overflow liquids.
  - b. No cooling system will be mounted within or around the driver's compartment. This is to prevent hot liquid from coming into contact with the driver.
6. **Open Engines**
- a. All cars not meeting the above engine specification rules may be allowed to compete in an open division at the discretion of Port Angeles Speedway Officials. Under no circumstances will engines above 2300cc be allowed.

## **TRANSPONDERS**

1. Transponders are mandatory
2. Must be located. If you are unsure ask a Port Angeles Speedway Tech Official.

## **POINTS**

**1. Owner Points will remain with car owner who paid for their number.** Car number remains with the member who paid for the membership. Driver points follow the Driver.

## **REGISTRATION**

1. Registration is mandatory to participate in all events.

## **ONE-WAY RADIOS**

1. One-way radios (scanners/ race scan). May be in the future.

**PORT ANGELES SPEEDWAY MAY MODIFY ANY OF THESE RULES STATED HEREIN FOR THE BEST INTEREST OF SAFETY AND THE SPORT OF COMPETITION.**

**NO PROTEST. PORT ANGELES SPEEDWAY OFFICIAL(S) DECISION IS FINAL.**