

# **SOUTHERN OREGON SPEEDWAY**

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## **DWARF LITE RULES**

### **2008**

Any car specifications not covered in these rules are subject to Southern Oregon Speedway interpretation. Any significant performance advantage will be addressed on an individual basis. Southern Oregon Speedway reserves the right to determine what constitutes an unfair advantage.

The rules set forth herein are designed to provide for orderly conduct of racing events and to establish minimum acceptable requirements for such events. No expressed or implied warranty of safety shall result from publication of, or compliance with these rules and/or regulations. These rules are intended as a guide for the conduct of the sport and in no way guarantees against injury or death to participants.

#### **1. BODY STYLES**

(a) 1928-1948 5/8 scale American made production vehicles, two-door sedans, coupes or pickup trucks only, to be known as Open Wheel Lites.

(b) Modified appearing body style such as UMP or IMCA dirt modifieds, to be known as Mod Lites.

#### **2. BODY SPECS ( Open Wheel Lites )**

(a) No open top cars such as roadsters, convertibles or "T" tops. No foreign makes. All cars will be of all metal construction.

(b) Outer skin shall be a minimum of 26-gauge steel or .040 aluminum. There must be a complete firewall, front and rear, separating engine and trunk compartments from driver. Sheet metal outside skin must be secured with Dzus type fasteners or permanently attached by rivets or spot weld no more than 12" between each attachment point located at the perimeter of each panel where it meets the roll cage, firewall or trunk framing. All gaps exceeding 3/8" must be sealed.

(c) Must have grill shell or simulated open radiator matching original body style.

- (d) Doors, windows and cowling must retain stock appearance. Both doors must open for drivers exit and be latch in a safe manner; which will pass tech inspection. Engine compartment must conform to scale of body length and must match the contour of body where it meets the right and left side body panels.
  - (e) Hood and trunk panels must be fastened securely by spring latch or Dzus type fasteners ( no self tapping screws ). Louvers allowed for cooling, no holes. Hood may have bubble or hole for breather ( no ram air ). Any bubble, hood scoop or air cleaner cannot obstruct drivers view. Must have closed trunk lid or fully enclosed trunk access panel conforming to original bodylines. Trunk must be easily accessible.
  - (f) No fenders. No wings. No spoilers.
  - (g) Maximum body width, 38"
  - (h) The slope of the roof may not exceed 3-1/2" measured from the highest point in the rear just before the main cage starts to turn downward, to the lowest point just before the main cage starts to turn downward.
  - (i) No body shall be over 50" tall from ground to highest point on roof, or 40" tall from bottom of frame rail to highest point on roof.
  - (j) Side nerf bars must be mounted in front of rear axle only. A maximum of 18" from rear axle center line to kick out. Upper mounting not to exceed 18" from bottom of frame rail. Must not extend past the tire side wall and will be made of round tubing not to exceed 1" o.d. X .095 wall thickness.
3. BODY SPECS ( Mod Lites ) refer to profiles.
- (a) 42" min and 50" max height, ground to highest point of roof.
  - (b) 124" max length.
  - (c) 84" max door and quarter panel. Side nerf bars must be mounted in front of rear tires with a max height of 18" from bottom of frame rail and not extend out past tire side wall, plus be made of round tubing not to exceed 1" o.d. X .095 wall thickness.
  - (d) 30" min and 38" max side height of rear quarter panel from the ground. 30" max height of quarter panel.

- (e) Hood, 20" min 27" max – height (excluding breather protector) measured from bottom of frame rail to top of hood. No part of nose section (in front of spindle centerline) may be wider than 24". Hood may taper out to door panels at the rear. No ram air.
- (f) Roof, 40" min 48" max length. 36" min 42" max width. No part of roof may have more than 14 degrees rake. No deflector of any type on upper sides or rear of roof panel.
- (g) Rear upper quarter panel can be a min of 20" and max of 38" in length, with a max of 3" height at rear. Panel cannot be taller than roofline.
- (h) Side window will be a min of 18" in length and a min of 10" in height.
- (i) Rear shelf and body panels will be a min 46" and max 50" in width. Rear shelf may have no more than 5 degrees rake and may not be concave or convex in design. No lips or spoilers. The rear of the car must be enclosed a min of 16" downward from the rear shelf and from quarter panel to quarter panel, no holes, louvers allowed.
- (j) Interior specs:
  1. 36" min 56" max length of right pod area with max 30 degrees. Left pod may be altered for driver access. Side pod may not extend rearward past the centerline of rear axle.
  2. Rear quarter distance from center of rear 20" min 30" max.
  3. Cockpit cover with a max of ½ " lip will be permitted providing the on/off cutoff switch is reachable from outside the car by safety personnel.
  4. Body must be centered on chassis and not cover more than 50% of rear tire tread.
  5. All body skin, interior and exterior, will be a minimum 26 gauge steel or .040 aluminum properly attached. Gaps exceeding 3/8 inch must be sealed.

**(ALL CHASSIS SPECS ARE THE SAME FOR BOTH BODY STYLES)**

4. WEIGHT.

- (a) All cars will weigh a minimum of 1000 lbs without driver.
- (b) Open wheel lites will weigh a min of 1200 lbs with driver after race.
- (c) Mod lites will weigh a min of 1275 lbs with driver after race.
- (d) No single ballast of over 25 lbs. All ballast must be painted white with car number added. Ballast must be properly and securely attached to pass tech inspection.

## 5. FRAME AND ROLLAGE.

- (a) Main frame members will be a min of 1" x 2" rectangular steel tubing in .120 wall with a minimum three cross members made of the same material, one at the forward end, one in the center and one at the rear. Frame may taper forward of driver seat area. Front engine area frame width must be 24" max. and 20" min. outside dimension.
- (b) Roll cage must be minimum 1.25" o.d. x .083" wall or 1.50" x .065" wall steel tubing with secondary members being a min of 1" x .065" wall. Diagonal brace in roll cage halo mandatory.
- (c) All cars must have min two cage bars installed across door openings on both sides. Bars should be welded in place as part of roll cage. Minimum size 1" x .065" (1.25" x .095" recommended). Cars with bars mounted on doors should have full doorframe and minimum two horizontal crossbars measuring min 1" x .065".
- (d) All cars will have two cross bars running side to side, one under dash from door post to door post, and one behind seat at approximately 23" above frame rail. Bars will be min 1" x .065" steel tubing.
- (e) No down tubes allowed.

## 6. SUSPENSION & STEERING.

- (a) Front suspension must not extend rearward past the most forward panel of firewall and be over 25" high from the ground to the highest point.
- (b) The center of the front and rear axle will be mounted in the center of the frame from side to side, ( 1/2 " tolerance is allowed )
- (c) One steel coil-over shock per wheel only, non-adjustable type.
- (d) NO straight axles, leaf springs, torsion bars, birdcage types, Jacob's ladder, biscuit bars, spring bars or torque absorbing type components.
- (e) Steering components must have safety fasteners, such as cotter pins or self-locking nuts.
- (f) Manufactured quick-release steering wheel hub mandatory.
- (g) If steering box is mounted in front cowling, the pitman arm may not extend more than 1 1/2" outside the natural contour of the body near that point, and must not prevent proper door operation.
- (h) Maximum 73" wheelbase measured center hub to center hub front to rear. 1" tolerance allowed.

## 7. BRAKES.

- (a) Must have min two brakes controlling two wheels.
- (b) Manual brake bias control allowed inside drivers compartment.

8. BUMPERS.

- (a) Front bumper will be a minimum of 24" and max of 36" in width and not extend more than 8" forward of front tires.
- (b) Rear bumper will be a maximum width of 56" and not extend more than 8" from extreme rear body panel.
- (c) Both bumpers will be made of round tubing .065 wall min and .095 wall max, with a minimum bar spacing of 6" vertically. No sharp edges or points.
- (d) Both bumpers will be a min 4" from ground to bottom and max 16" from ground to top.

9. ENGINE SPECS.

- (a) Motorcycle engines only. 1250cc max displacement. Must be regular production (minimum 500 units per year) and normally aspirated.
- (b) Must have working starter, clutch and transmission in place. No auxiliary starters.
- (c) Engine must be cooled by original intent. May use extra fans or oil cooler.
- (d) O.E.M. fuel injection only, cannot be modified.
- (e) O.E.M. ignition only. After market boxes that adjust Fuel Curve, Timing and RPM only are allowed.
- (f) 2 valve, air cooled engines may run alcohol; but must run letter "A" in front of car number for safety crew.
- (g) No nitrous oxide, Superchargers or blowers.
- (h) All engines must be front mounted in stock location of model. No engine may extend more than 12" to either side of car body centerline.
- (i) Engine setback is the square of the motor (rear fins) may not extend more than 17" from the center of front axle. No part of the engine or transmission may be more than 21" set back measured from center of front axle.

10. DRIVE TRAIN.

- (a) Must use steel drive shaft to automotive type rear end. **Quick-change rear ends allowed.**
- (b) Drive shaft must be painted white and have a minimum of three 360-degree hoops: one hoop at each end and one in the center. Hoops to be constructed from minimum 3/16" x 1 1/2" steel bar or 1" x .065" round tubing.

11. FUEL CELL.

- (a) Purpose built, molded racing cell, not to exceed 5 gallons and be mounted with metal straps in trunk between frame rails.
- (b) Tank must be vented so as not to leak in any position, non-leaking fuel cap.
- (c) Must have complete firewall between driver and fuel cell.

12. WHEELS AND TIRES.

- (a) Minimum 12" and 13" max steel wheels with 7" max width. Car must run all four of same diameter wheel.
- (b) Hoosier D.O.T., max 8" wide tread, 50 durometer reading and/or Hoosier "Mediums" or "RC-3".
- (c) Tire grooving allowed.

13. ELECTRICAL.

- (a) All batteries must be securely mounted in trunk area with a metal top restraint; which will also hold battery caps.
- (b) Cars should have "master" electrical switch clearly located and marked.
- (c) No electronic traction or communications devices.

14. SAFETY.

- (a) All cars must have an approved five point racing harness, and min three inches wide, installed in a safe manner that will pass tech. Belts must be in good condition, no fraying or fading, recommend replacing belts every three years.
- (b) Must use approved racing helmet with a Snell 95 or higher.
- (c) Driver must wear a minimum single layer fire suit and fire proof gloves. Fire proof shoes recommended.
- (d) Head and neck restraint systems recommended. Approved neck brace mandatory.
- (e) All cars are required to have a fire extinguisher on board in easy reach of driver. 5 lb on board fire system with minimum two nozzles is highly recommended.
- (f) No sharp edges in or near drivers compartment.
- (g) Windshield area must have minimum 1/2" square wire mesh screen. No glass or Lexan. Side windows on coupes may use Lexan.
- (h) No rear view mirrors.

15. NUMBERS.

- (a) All cars must have numbers in five locations: Numbers on both doors and roof panel; must be minimum 12" high with a minimum 2" stroke, (the roof should be as large as possible). The number on the rear of the car will be a min of 6" high and located above bumper. A number of min 2" height will be displayed on the front for line-up purposes. Any letters will be a min 6" high on doors and roof, and 2" high on front and rear. Make numbers large and clear for scorer. No Roman numerals or gold leaf.