



Tulsa Speedway Dwarf rules 2021

1. All cars must run Hoosier Tires only.

Any car not running 4 Hoosier tires will lose all accumulated points.

2. Optional: Right rear only 10" wide 13" steel wheel

3. Optional: Right rear only Hoosier 74.0/10.0-13 Focus #35140 or 76.0/10.0-13 Focus#35155.

4. Maximum rear-end width 63" maximum front-end width 61".

5. Rule 15 Suspension, section D, does not apply.

RULES of COMPETITION

If it is not listed or printed in these rules it's illegal and cannot be done!

*** Legend race cars will be allowed to race ****

1. Legends will have to remove fenders and running boards

2. Legends may use fiberglass bodies but this rule keeps the legends from racing for points. No challenges to the fiberglass rule for a Legends car!

3. Any questions of legality will be handled on a case by case basis.

SPECIFICATIONS

1 BODY STYLES

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

(a) 1928-1948 American-made production vehicles only, 5/8 scale, two-door sedans, coupes, or pickup trucks. These are to be known as Classic Dwarf body styles.

2. BODY REQUIREMENTS AND SPECIFICATIONS

Body must be 5/8 scale, stock appearing. Maximum outside tire width 61", Minimum wheelbase 72" maximum wheelbase 74", and maximum height 50".

1. Must have grill shell or simulated open radiator matching original bod style, any material.
2. Doors, windows, and cowlings must retain stock appearance. Hood louvers allowed for cooling, but must maintain stock contours.
3. Engine compartment must conform to scale and match contour of body. Hole may be cut for breather clearance only.
4. Must have closed trunk lid or fully enclosed trunk access panel conforming to original bodylines. Louvers allowed no holes.
5. All body panels (doors, trunk, hood etc.) must be in place. *** When taking the first green flag of the night! This includes hot laps! ***
6. No fenders, wings, or spoilers allowed.
7. Ram air induction system prohibited.
8. Car parts can be grandfathered in.

(b) Body will be metal construction, 26-gauge steel or .040" aluminum minimum. Fiberglass or plastic grill shells allowed. No lips or spoilers of any kind.

(c) NO open top cars (roadsters, convertibles). No panel trucks, station wagons, or specialty cars.

***Roof must start at top of cowl at front of cab and extend over the top of cab ending at top of trunk! *** May have escape door in top of cab!

(d) Classic Dwarfs Overall Dimensions

1. NO car over 50" tall, top to ground. Body height maximum 44", bottom edge to top (including frame rail).
2. Maximum body width: 38" Maximum frame width 34"; min 30"
3. Body contour must follow frame and roll cage. Roof hatch entrance allowed.

4. Frame ride height must not let car bottom out on track.
5. Drivers door must be operational and equipped with secure latch.
6. Fasteners on hood, trunk, or panels must be positive, locking type.
7. 124" maximum total length, bumper to bumper.
8. Kick outs or side nerf bars must be mounted at three points. 1 ¼" max .125 wall thickness. Cannot stick out beyond 1" from the side of the tire.

3. WEIGHT

- (a) All cars must weigh a minimum of 1200 lbs. with driver at any time.
- (b) Max of 75 pounds of ballast. Ballast must be painted white with car number.
- (c) All ballast must be mounted inside body lines.

4. BUMPER DIMENSIONS

- (a) Front maximum width 30", Bumper height 6" to 8" with 2-bar loop. Ground to top of bumper: 12" minimum, 16" maximum. Bumper may not extend more than 12" forward of front tires.
- (b) Rear maximum width 56" with 3 vertical bars. Bumper height 6" to 8" with 2-bar configuration. Ground to top of bumper: 12" minimum, 18" maximum. May not extend more than 8" behind rear body panels.
- (c) Bumpers must be hollow with max wall thickness of .125

5. FIREWALL

- (a) Firewall must be metal and must completely separate engine compartment from cockpit. Engine protruding into cockpit must be enclosed.

6. WINDSHIELD

- (a) Windshield must be Lexan, wire mesh, or protection bars. No glass. All other cockpit areas must remain open. Deflectors may be used in front of driver. May be no wider than roll bar area.

7. NERF BARS

- (a) Maximum outside diameter of 1.25" and .125 maximum thicknesses, must be hollow and may not extend out beyond tread width more than 1" at the rear only.

8. SEAT

- (a) Seat must be high-backed aluminum, racing type. All cars will have a permanent bar located behind top of seat at shoulder level. Bottom of seat will not be more than 68" back measured from centerline of front spindles to rear of seat base. Seat may be tilted

back for added head clearance, no portion of the seat back more than 74" as measured above.

9. NUMBERS AND GRAPHICS

(a) Car number must be minimum 12" in height and 2" stroke. Must be displayed on each door and roof or trunk. Numbers in 4" height should be on rear to aid in line-up.

Please mark outside of car to locate door handles for safety crews.

10. WHEELS AND TIRES

(a) Steel wheels only, minimum wall thickness .090", 13" only, Wheel width max. 8". Maximum tire size 235/60-13 Hoosier DOT dirt, TUSA, STARS, Goodyear G45 and G50, American Racer 215/6--13, 23.0/7.0 - 13. 40 durometer minimum before race.

Grooving or siping of tread surface is permitted.

Soft, medium or hard acceptable on all four corners.

*** Also allowed is a Hoosier 23.0x7x13 tire ***

Bead lock rims are allowed on both sides.

(b) Any 8" Hoosier Tire is allowed.

11. ENGINE SPECIFICATIONS *2019 Western States Motor rules are in effect with exceptions****

EXCEPTIONS:

1. Aftermarket "Velocity Stacks" are legal
2. Aftermarket power commanders, ECU, and flashed boxes are allowed.

ALL ENGINES MUST BE STOCK TO YEAR.

(A) Injected Motor Specifications: ***2010 or older only. 1000 cc or less.

1. Must remain stock bore and stroke, no altering rod or piston specifications.
2. All head components must remain stock, (except cam sprockets may be slotted type). Cams must be as per original equipment manufacturer (OEM) and must meet specs as per manufacturer.
3. No fuel monitoring devices allowed in the cockpit within drivers reach.
4. Engine must retain its stock fuel induction system. May run aftermarket air filters but
5. Alternator recommended but not mandatory.
6. Aftermarket air filters and oil pans permitted
7. Secondary butterflies may be removed.
8. The intent of these rules are to keep internal part of injected motors OEM stock

(B) Carbureted Motor Specifications:

1. 1250cc (+1%) Maximum
2. No engine can be modified to be less than original stock configuration OEM specifications.
3. Aftermarket electronic engine components allowed.
4. Carburetors and cams optional.
6. Aftermarket cylinder & cylinder heads.
7. Porting, grinding, polishing or changing stock configuration of intake or exhaust ports allowed.
8. Carburetor boot must fasten directly to head in the stock intake port location
9. Header must attach directly to head in stock exhaust port location
10. Oiling system may not include a dry sump system.
11. No increasing of stock stroke in any way.

(c) "General Motor" Specifications:

1. Four cycle, four cylinders maximum only. Must have working transmission, clutch, and starter with all parts in place. Complete Clutch assembly must remain in engine. External reverse boxes allowed. No air controlled shifting devices.
2. Charging system optional. Battery powered ignition system only. Alternator cover allowed.
3. No auxiliary starters.
4. Engines must be front mounted in engine compartment. In front of cab and firewall.
5. Engine setback: The "square of the engine" (rear fins of the jugs) may not extend rearward more than 17" from the center of front spindle. No part of the engine or transmission may extend rearward more than 21 inches from center of front spindle.
6. No aftermarket fuel injection, and no turbos. No nitro, or nitrous oxide.
OEM fuel injection and velocity stacks must remain stock.
7. Engine must be cooled by original intent. May use extra fan or oil cooler.
8. Engine exhaust must include muffler and exit rearward. All muffler devices must include baffles. MUFFLER MUST MEET LOCAL TRACK REGULATIONS, (IF MANDATORY)
- 9.*** All motor serial numbers are to be recorded!!! If a motor is replaced the driver/owner must inform tech/committee of change! List year, make, size of motor.

(d) Engine Tech Procedures

1. Cylinder cranking compression-minimum 100p.s.i. Maximum 220p.s.i. per cylinder average of 4 cylinders, no variance, after ten (10) compression revolutions of cranking, 15-45 minutes following feature event.

2. Carburetors or Fuel Injection and all 4 spark plugs must be removed before checking compression.

12. BATTERY, FUEL SYSTEM

(a) Battery and fuel pump must be mounted outside driver compartment. Battery must be secure and held with non-rubber strap. Electric fuel pump allowed.

(b) Fuel cell mandatory, maximum 5 gallons, located in trunk.

(c) Gasoline or alcohol only, no fuel additives allowed. According to local preference.

(d) Reinforced or steel braided line must be used in all high-pressure areas.

(e) A direct manual cutoff switch wired to ground circuit will be installed on the right rear shelf or rear fire wall within 6" of the corner formed by the rear deck and rear fire wall. Switch will be located over the right shoulder of the driver. The emergency electrical cut off switch will be clearly located and marked.

13. DRIVE TRAIN

(a) Must use steel drive shaft from transmission to automotive rear end. Minimum 2.50" x .083" or 2" x .120".

(b) Quick change rear ends allowed with steel tubes only. Gearing used in a quick change rear end must be within 5 points of Toyota gears. Such as a 390 8bolt rear end the quick change would be from 385 to 395 ratios***330,358,373,390,411,430 8-bolt gears.

(c) Drive shaft tunnel must have minimum of 2 (3 recommended) 360 degree hoops between firewall and seat back. Must be fabricated of minimum .1875" x 1.5" steel bar. 1"x .095" steel tube highly recommended.

(d) Rear must be locked or have a solid spool.

14. FRAME AND ROLL CAGE

(a) Main frame members will be minimum of 1" X 2" x .120" wall rectangular steel tubing only. 1"x 2" frame rails must go from the centerline of front spindles to rear bumper mount. No aluminum allowed in cage or frame.

(b) Main frames will have a minimum of 3 cross members between firewall and back of seat fabricated of same material as frame rails. Alternate material may be steel angle, min. 125" X 1.5" X 2". Cross-bracing in floor under driver strongly recommended. Rear frame rails at rear roll bar must be 34" max and 30" minimum outside dimension. Rear roll bar must meet same dimension as the frame it is mounted to. Frame may taper forward of driver seat area. Front engine area frame width must be 24: max and 20" min outside dimension. Left and right frame rails must be the same + or - 1/2".

(c) Roll cage must be DOM steel minimum 1.25" x .083" (.095 recommended) in all cars manufactured from 12/98 on. Clubs may grandfather older cars with 1" x .065" tubing.

Cross-brace or diagonal strongly recommended in hoop over driver's head. (d) All cars must have 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 of 2 horizontal cross bars.

Minimum 1" x .083". Cars with bars mounted on doors must have 1/4" x 2" steel stops welded in on each side of opening, totaling a minimum of 4" on each end of door.

(e) It is required to have a steel bar with a minimum size of 1" X .065" from doorpost to doorpost, under the dash. Steel plate on driver's door bars recommended

(f) It is recommended that, if using rivets, body panels attach to tabs welded onto cage instead of drilling multiple holes into cage bars.

(g) No down tube frame cars allowed. Any bars going from cowl area to snout must remain below the upper line of hood.

(h) Classic pickups may have two (2) bars going from upper rear roll cage down to rear clip.

(i) Underslung rear-end only.

15. SUSPENSION

(a) Front suspension must not extend rearward past the most forward panel of the firewall.

Aluminum spindles allowed.

(b) Rear trailing arm/radius rod specifications:

1. Arms may have a maximum length of 30".
2. Torque-absorbing devices are permitted.
3. Maximum 3 radius rods or 3 link suspension

(c) Wheel offsets are allowed.

(d) Hub offsets are NOT allowed. Hubs front and rear must be within 1/2" distance from mainframe rail on either side of car, measured from center of rotor to vertical plane of frame rail. This rule is to keep axle and spindles more or less centered to car.

(e) Coil-over shocks are the only allowable means of supporting the chassis. One shock and spring per wheel only. Shock and spring must remain as one unit. Shocks must be non-adjustable type. Rebuildable and aluminum shocks allowed.

(g) No driver shall have the ability to adjust suspension from inside car.

(h) Straight front axles are prohibited.

Tulsa Speedway

www.tulsaspeedway.com

- (i) No leaf springs.
- (j) No birdcage type rear linkage.
- (k) Anti-roll (sway) bars permitted front or rear. Must be connected without adjustments to arm location.
- (l) No torsion bar suspension system of any type allowed.
- (m) The use of carbon fiber or titanium in any way is prohibited.

16. STEERING

- (a) All steering components must have safety fasteners such as cotter pins or self-locking nuts.
- (b) Manufactured quick-release steering wheel hubs mandatory.
- (c) Rack and pinion steering is mandatory.

17. BRAKES

- (a) At least one front and one rear brake required.
- (b) Rotors and calipers:
 1. Steel rotors mandatory, .250 minimum thickness.
 2. Steel OEM calipers or aluminum calipers.
 3. Cutting & scalloping of rotors will be allowed with no rotor surface being less than 3/4" in width.
 4. Drilling of rotors is permitted.
- (c) Adjustable brake bias and wheel shut offs allowed.
- (d) Competition-type master cylinders allowed.

18. SAFETY EQUIPMENT

- (a) Fire bottle system HIGHLY recommended.
- (b) Driver uniform will consist of:
 1. Fire suit (single layer minimum, one or two-piece).
 2. Fireproof gloves.
 3. Fireproof shoes.
 4. Approved helmet with Snell 95 or higher.
 5. Full-face helmet.
 6. Head and neck restraint systems recommended.

(c) Car must be equipped with 5-point safety harness, no more than 3 years old, with minimum of

3-inch belts.

(d) Aluminum, high-backed racing seat mandatory.

(e) Window net or arm restraints, and head & neck restraints required.

19. NO two-way radios. One-way communication from officials only is allowed.

20. NO mirrors allowed.

21. DRIVER QUALIFICATIONS

(a) All drivers must be minimum of sixteen (16) years of age. Any drivers under 16 years of age may be considered.