

2010 Western Speedway Demo Car Rules

Demo cars are a class of automobile racing where full sized cars (112" wheel base or bigger) race around Western Speedways track. The catch with these cars is that they must hit their opponents before they are permitted to pass them. The drivers have found that spinning out their opponents has the added benefit of slowing down everyone who might be following just a bit too close. There is crashing and hard hits a-plenty when these weekend warriors hit the asphalt.

Disclaimer

The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such 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 expressed or implied warranty of safety shall result from publications of or compliance with these rules and/or regulations.

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 to a participant, spectator, official or others.

The Race Director shall be empowered to permit minor deviations from any of the specifications herein or impose any further restrictions that in his/her opinion, do not alter the minimum acceptable requirements.

No expressed or implied warranty of safety shall result from such alterations or specification.

Any interpretation of or deviation from these rules is left to the discretion of the officials. Their decision is final.

Driver Eligibility

Any person 16 years of age or older with a valid drivers license may participate. Any person under 18 years of age must have a notarized release signed by a parent or legal guardian; Minor release forms are available from the Western Speedway office or back gate. Western Speedway management reserves the right to make exceptions to eligibility on a "Case by case" basis.

Anyone who is under a doctors care, is receiving Workers compensation or is drawing sick benefits from any source must make their condition known and a decision will be made by the track management as to that persons eligibility to drive.

Demo Car Rules

Point to ponder.... These are the cars we race... NOT race cars.

Eligible Vehicles

Passenger cars or station wagons with a minimum wheelbase of 112" are allowed. No Imperials or Lincolns All 4 wheels must have working brakes.

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1. PERSONAL PROTECTION:

(A) All Drivers must wear a Snell 95 or newer helmet (Snell 2000 is recommended). Goggles or a face shield must be worn. Neck braces are recommended. Belts cannot be older than 10 years and must have SFI tag on them, so we can tell what year they were made. If no tag, they will be considered too old and must be replaced.

(B) All Drivers MUST wear Proban or Nomex coveralls or a driving suit in good repair.

(C) A properly mounted minimum 3" lap belt, 3" shoulder belts, five-point racing harness will be worn at all times when on the track. Anti-submarine strap is not optional.

(D) All cars must have approved safety netting in the driver's window. Window nets must release downward from the inside of the top of the driver's door with a spring or metal seat belt clip mounted inside the car. Minimum 3/8" steel round stock and hose clamps top and bottom. Trunk torsion rods are suggested.

(E) All vehicles MUST have a charged 1.87 lb (minimum) ABC fire extinguisher accessible in their pit area.

2. ALL combustible material, glass, plastic, ornaments, chrome trim, lights, bulbs, etc, MUST be removed except for the windshield and driver's inner door panel. If door panel is removed the door must be padded.

3. Vehicles must be clear of loose objects such as broken glass, plastic debris, loose bolts and screws, etc.

4. Some cars may require a 3/8" x 2" steel flat bar bolted to the outside top of the driver's upright and be bolted or welded to the driver's door bar.

5. No removal of sheet metal from interior of passenger compartment, except as needed for installation of bars. Front fender wells, inner hood and trunk skins may be removed. Door hinges may not be removed. Rusted floorboards must be patched with equivalent gauge sheet metal. All unnecessary holes in the firewall and floor must be patched with suitable sheet metal.

6. Hood, doors, and trunk.

(A) MUST be bolted or chained safely shut. Doors may be welded.

(B) Hood to be secured with up to 6 hood pins up to 1 inch maximum diameter. Ready rod suggested. Front pins may extend through the rad support. All six pins may be attached to the frame but no gussets or back bracing is permitted.

Maximum hood washer size is 6 by 6 inches.

(C) Inner and outer hood skins may be bolted together with up to eight 3/8" bolts and equivalent washers.

(D) 2 holes are required in the hood (One above each valve cover) large enough for a fire extinguisher nozzle. Minimum 7" x 10".

(E) Wheel wells may be bolted together with maximum five 3/8" bolts and equivalent washers cut flush to the nut.

(F) 1 replacement fender or quarter panel (or equivalent sheet metal) may be added over top of the original damaged panel.

(G) Trunks may be secured with up to 4 ready rod pins up to 1 inch maximum diameter. All four pins may be attached to the frame but no gussets or back bracing is permitted. Trunk must not be welded.

7. Front and rear bumpers on all vehicles must have chain, welded or bolted on both sides of the frame horns, and then securely welded or bolted to the bumper. Bumper shocks may be welded or bumpers may be pinned (Max 1 inch ready rod max 4 inches from frame horn) but no pinning is to extend beyond the bumper. Bumpers must be stock type car or truck bumpers.

8. Driver and passenger doors must be reinforced with steel bars.

(A) Chanel iron, box steel or I beam. No angle iron.

(B) Door bar to be minimum 8 inches high on drivers side.

(C) Door bar to be minimum 6 inches high on passenger side.

(D) Minimum length 5 feet unless this would cause bar to extend into or over the wheel wells. Bar may not extend into or over the wheel wells.

(E) All sharp edges must be blunted. Door bars are to be beveled ends.

9. Door bar bolts.

A minimum of four 5/8" bolts with suitable nuts and washers are required to bolt any door bar on. These must be bolted through the entire door/fender, not just the door skin. These bolts may be used to secure the dash bar, or rear cross bar.

The front bolt is to go through the front fender and the foot box.

The second bolt is to go through the door near the hinges.

The third bolt is to go through the rear cross bar.

The fourth bolt is to go through the rear door or quarter panel.

No bolts are to extend beyond the outside of the door bars

10. Oil and transmission cooler lines.

Oil and transmission fluid coolers, if used must be mounted to the firewall inside the engine compartment.

Automatic transmission lines must be joined with suitable material and be double clamped.

Oil pressure gauge supply line must be steel, brass or copper only. Plastic lines are not permitted.

11. Radiator must be mounted in the stock location. Expansion tanks and electric fans are optional. All fans must be covered with a Tech approved shroud. Fans may be removed all together. An expanded metal or wire mesh screen may be installed in front of the radiator. Screen may not extend beyond the frame horns. 2" x 2" x 1/4" angle iron may be installed along the top of the rad support extending up to 1" short of the fenders. Back braces (up to 2" pipe) may be mounted from the rad support to the frame rails in front of suspension.

12. Engine, transmission and engine compartment must be cleaned.

13. Drivers seat must be a high bucket without removable headrest or a tech approved racing seat. It must be securely bolted to the floor and fastened to the driver's upright.

14. Roll cage.

(A) Minimum four-point cage is mandatory. All welds must be proper and cages must be approved by Head Tech. All cage bolts will be a minimum 1/2" bolts with suitable nuts and washers. All cage pipes will be a minimum of 2" outside diameter steel pipe, 3/16" minimum wall thickness. Drivers side upright to be minimum 3" x 3/16". All pipes that are joined will be welded.

(B) Must have two uprights welded together with one cross pipe. One upright will be directly behind the driver's seat and the other upright will be in the passenger seat area. The cross pipe needs to be level and a maximum of 4" from the roof. Uprights **MUST** be flanged and bolted to the floor and the roof with a minimum 6" x 6" x 3/16" steel plate.

Minimum 3 bolts per flange with suitable nuts and washers.

(C) Both uprights **MUST** be back braced by steel pipe, bolted to the rear floorboards, or the base of the rear firewall, but be within the interior compartment. Minimum two 1/2" bolts per flange with suitable nuts and washers.

(D) A cross brace **MUST** be installed from the driver's side to the passenger's side behind the driver's upright.

This cross brace **MUST** be flanged and bolted through both door bars. Flanges are to contact both doorposts. Minimum two 5/8" bolts with suitable nuts and washers on each flange.

(E) A dash bar **MUST** be installed from the driver's doorpost to the passenger's doorpost, above the steering column. This dash bar must be flanged and bolted on both ends with a minimum 5/8" bolts with suitable nuts and washers.

The steering column must be chained securely to the dash bar.

(F) A Stock car cage may be used, subject to Tech pre-approval as to the material thickness and the method of mounting.

(G) Anywhere that may contact the driver must be adequately padded.

15. Windshields.

(A) Stock windshield in good repair is preferred. Lexan replacement or maximum 1" expanded metal or 1" wire mesh replacement allowed.

Securely mounted replacement must extend from the driver's side window upright post, past the center of the windshield opening. No open faced helmets permitted if using replacement windshields.

(B) A minimum 1/8" x 2" metal bar must be bolted vertically in the center of the outside of the windshield.

16. Gas tank.

(A) Stock gas tanks **MUST** be removed. Approved gas tank is an approved fuel cell or a metal boat tank.

(B) Gas tanks located in the trunk must be securely mounted under the back window ledge with a minimum 1/8" x 2" band of iron placed through the handle across the top. Rubber must be placed between the strap and the tank. The tank must be a minimum of 18" from the rear of the trunk. Tanks must not move. An angle iron base frame is mandatory and must not reinforce any other part of the vehicle. A minimum 4" drain hole is required in the lowest part of the trunk floor.

(C) A sheet metal firewall (flash shield) must completely seal the trunk, and the gas tank from the interior of the car or the tank may be sealed in a metal box. (If the tank is sealed in a metal box it may be mounted inside the passenger's compartment.)

(D) All fittings must extend from the top of the metal boat tank. Fuel lines inside the vehicle must run continuously inside a garden hose, or hose of similar protection for the whole length of the interior.

(E) Any vehicle with an electric fuel pump will have a capital "E" beside their number on the sign. A battery shut off switch must be mounted to the driver's side upright and be readily accessible to the safety crew, in the event an emergency shut off is required.

(F) Gas tank must be accessible for inspection by way of an inspection hole or trunk opening.

17. Vehicles equipped with a power steering box must have operating power steering at all times.

18. Rear ends can be changed between corporation to corporation. Locked rear ends are allowed.

19. Batteries must be securely mounted in a metal or wood battery box (recommended) or a marine battery box in good repair, with sufficient padding inside and bolted solid with 4- 1/2" bolts inside the vehicle within the frame rails. The battery box must be securely fastened to the floor.

20. You may run any carb and any intake manifold, no highrise intakes allowed and an adapter plate is permitted if needed but no highrisers or wooden adapters allowed. See head tech in regard to fuel injection. A carburetor, Fuel Injection air cleaner or suitable flame arrester is required, but this may not extend through the hood.

21. Any diameter rim with DOT street tires. Tread width is to be a maximum of 8 inches wide. A measuring caliper will be used to measure tires to insure legality. No racing tires, McCreary's, etc. No retread tires permitted. No Stock or Old timer car tires permitted. Tech has no way to ensure that the new tread compound meets DOT requirements. Use of illegal tires will result in loss of all points and prizes for the night. All wheel studs, lug nuts and stud seats are to be in good condition. Front right wheel must be a reinforced type rim (1/4" White spoke or heavier). No home fabricated or redrilled wheels are permitted. No unilug rims.

22. Frames may not be reinforced except for a gusset of maximum 2"x2"x1/4" angle iron to stiffen the first bend back from the front of the frame rails. Equivalent gauge steel may be used to repair broken or damaged frames. If body mounts are removed larger than stock replacement bolts are recommended.

23. Drive shaft hoops are mandatory. Hoops MUST be located approximately 12" back from the front end of the drive shaft. Hoop helps prevent a broken drive shaft from digging into the track.

24. Suspension.

(A) No changing or altering springs. Replace broken or damaged springs with original OEM or equivalent.

(B) OEM or equivalent shocks only. No air shocks. Shocks are to be mounted in stock location only.

(C) Rear ends may be changed between corporations and locked rear ends are permitted

(D) Stock sway bars may be preloaded or heated. Sway bars may be attached to "A" arms.

(E) Tie rods may be reinforced.

25. Exhaust pipes are to extend 24" past the driver's seat if run beneath the car. Exhaust pipes extending out of the hood are to be muffled. No open headers. Mufflers or some sort of silencer mandatory.

26. Roof signs:

(A) Must be securely mounted on the roof of the vehicle.

(B) One, Two digit numbers only. In the event of a transponder system failure the numbers will be scored visually.

(C) Be as creative as you like but remember what was said in point (B).

(D) Numbers should be a minimum 14" high, 2" thick and 7" wide. And be of contrasting colors from the roof sign itself. All vehicles must have a number on both sides of the roof sign.

27. All vehicles will be subject to a Tech and safety inspection. If your vehicle fails tech inspection any shortcomings will be explained fully allowing you an opportunity to expedite repairs. In some cases, if repairs can't be made, your vehicle may not race.

28. No dynamiting of brakes allowed.

29. All passes require you to hit the car you are passing. Intentional passing without hitting, except in trophy dash where hitting is NOT allowed, will result in loss of position at the finish or disqualification from the event.

30. Hit to pass, not hit to destroy. There are already too few cars so have fun but don't wreck other cars intentionally. Malicious hitting will result in loss of all points and prizes and 2 race suspension. Save the car wrecker hits for the total destructions.

Demo Car Racing Points Schedule

Any car which times in will earn 10 points.

Heats will be lined up as per qualifying order (slow/fast heats)

Slow Heat will receive 15 points for 1st, 14 for 2nd, 13 for 3rd and so on.

Fast Heat will receive 20 points for 1st, 19 for 2nd, 18 for 3rd and so on.

Main will receive 50 points for 1st, 48 for 2nd, 46 for 3rd and so on.