

2010

Western Speedway Mini Figure 8 Rules

Mini figure 8 is a rough and tumble class of automobile racing where small cars (100" or shorter wheel base) race in a figure 8 pattern, going head to head with each other around 2 big old tires on the front stretch of Western Speedway. Mini figure 8 is a "Hitting optional" class where the drivers have two basic options.

1. They can use their bumpers to "Persuade" their opponents to clear out of their way or,
2. They can pass cleanly.

It's often surprising how often the drivers will choose option #1 when option #2 would serve them better.

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.

Mini Figure 8 Rules

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

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Eligible Vehicles

Any make of passenger car or station wagon that is of unibody construction (no full frames) with a 100" or shorter wheel base. Engines will be four cylinders or less. All 4 wheels must have working brakes. No rear, mid or rotary engines.

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 by drivers and passengers 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. Stock dash may remain intact.

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. 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 maximum 4 hood pins up to 1 inch maximum diameter. Ready rod suggested. Front pins may extend through the rad support. All four 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 (Minimum 7" x 10".) are required in the hood (Above valve covers) large enough for a fire extinguisher nozzle.
- (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 may be welded shut if access to the fuel tank is not restricted.

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 bumpers. Holes may be cut in the floor pan and chain looped through holes and bumpers to secure them in place.

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" high on driver's side.
- (C) Door bar to be minimum 6" high on passenger side.
- (D) Door bars must extend a minimum of 4" past the front of the drivers door and extend far enough back to allow it to bolt to the rear cross bar. Wheel well to wheel well is recommended.
- (E) All sharp edges must be blunted. Door bars are to be beveled ends.

9. If passenger is riding in car, must have:

- (A) 5-point racing harness, mandatory.
- (B) Seat to be bolted same as driver's.
- (C) Dash bar for passenger to hold on.
- (D) Window net.
- (E) Battery placed behind passenger.
- (F) 8" passenger side door bar.
- (G) Upright directly behind passenger.

10. 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 should go through the rear cross bar and the rear door or quarter panel. No bolts are to extend beyond the outside of the door bars.

11. 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.

12. 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. Radiator and/or 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. Maximum 2" square or round tubing may be mounted from the rad support to the frame. Maximum 2" angle iron or flat bar may be welded from rad support to strut towers or firewall.

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

14. Drivers seats 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.

15. 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. Drivers side upright to be minimum 3" x 3/16". All other cage pipes will be a minimum of 2" outside diameter steel pipe, 3/16" minimum wall thickness. All pipes that are joined will be welded. The cross bar may be sleeved with a minimum 6" long 3/16" wall thickness 2" inside diameter pipe and two 1/2" bolts.

(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. A minimum of 3 bolts per flange with suitable nuts and washers is required top and bottom of uprights.

(C) Both uprights must be back braced by steel pipe, bolted to the rear floorboards, or the base of the rear firewall. 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. Minimum two 5/8" bolts with suitable nuts and washers on each flange.

(E) If the stock dash is removed 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 1/2" 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 or passenger must be adequately padded.

16. 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" steel bar must be bolted vertically in the center of the outside of the windshield.

17. Gas tank.

(A) Most stock tanks mounted ahead of the rear axle are permitted.

(B) Other tanks must be replaced with an approved fuel cell or a metal boat tank.

(C) Gas tanks relocated to 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. All fittings must extend from the top of the metal boat 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. A sheet metal firewall (flash shield) must completely seal

the trunk, and the gas tank from the interior of the car.



(D) If the tank is sealed in a metal box it may be mounted inside the passengers' compartment. All fittings must extend from the top of the metal boat tank.

(E) Fuel lines inside the vehicle must run continuously inside a garden hose, or hose of similar protection for the whole length of the interior.

(F) Any vehicle with an electric fuel pump will have a capital "E" beside their number on the roof 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.

18. Rear wheel drive cars may change rear ends between corporations. 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. A carburetor/ Fuel Injection air cleaner or suitable flame arrester is required, but this may not extend through the hood. No high riser adapters or wooden adapters allowed.

21. Tires / Wheels. No Fork lift tires, studded tires, retread tires or racing tires permitted. No home fabricated or redrilled wheels and no unilug rims permitted. Other than that you may use any rims with DOT street tires that you can fit into your wheel wells. All wheel studs, lug nuts and stud seats are to be in good condition.

22. Sub frames may not be reinforced. Equivalent gauge steel may be used to repair broken sub frames.

23. Drive shaft hoops on rear wheel drive cars 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. 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.

25. Suspension.

(A) Stock front springs/ struts only. Replace broken or damaged springs/ struts with original OEM or equivalent.

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

- (C) Pulverized suspensions may be “jury rigged” to make the car work. This modification only after the suspension has been damaged beyond repairing.
- (D) Stock sway bars may be preloaded or heated. Sway bars may be attached to "A" arms.
- (E) Tie rods may be reinforced.

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. Hitting is optional in the figure 8 class. Hitting is to be used as a means of moving a car out of your way, not a method of destroying your opponents' car. Intentional head on hitting in the crossover is not permitted. You must try to make the turn at the tires, driving through the back of a car ahead of you at the tire is not permitted. No cross-over hitting allowed.

30. Hit for fun, not hit for destruction. Drivers have to go to work after race day so have fun but don't hurt each other. Malicious hitting will result in loss of all points and prizes and 2-race suspension. Save the car wrecker hits for the total destructions.

Figure 8 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.