

Mini Stock and Small Car Figure Eight Racing Rules

Section A – Race Procedures

- 1) Type of Race – Races are designed for an economical, fun type of racing series. Most people prefer a figure eight style of race. There are some who like an oval track style of race. Some like both. If we mix them up people seem to prefer that. This also seems to reduce the work on offsetting suspensions, tire and/or wheel sizes etc. Please remember it is a hobby stock or small jalopy kind of race series.
- 2) Type of Car – Small cars with 4 cylinder engines and 4 bolt wheels only. Any four cylinders or less, two-wheel drive, passenger car, sedan coupe, fastback sports car or station wagon. If the car has 5 bolt wheels, it must be 4 cylinder and under 2400 pound registered curb weight.
- 3) Number of Drivers and Cars – 1 driver per car per heat. Any additional drivers for other heats must be paid and registered.
 - a. There is a limit of competitors due to the pit size.
 - b. A passenger may ride with a figure eight driver. Passenger side MUST be equipped with sturdy door bar, proper and secure seat, out of the way battery, room for legs, proper headrest, etc. Seat belts and harnesses must be secure. Passenger must wear a helmet and eye protection.
- 4) RACE PROCEDURE – The figure eight race is NOT a derby! To win, it is the first car to complete the specified number of laps, not the last car running. You are NOT supposed to hit another car even in the “X”. However, you may make contact and push another car in order to pass. The standard number of laps will be 10 unless you are told otherwise before the event. Anyone who takes a shortcut by completing only half of the “8” pattern will be penalized a full lap. Remember, anyone using the derby tactics like backing into a car, etc. will be disqualified from the race. You cannot race backwards. You cannot back up more than what is needed to get around a blocked car or obstacle. You cannot ram another car into the barrier.
 - a. The race will be started with a green flag and stopped with an air horn and/or checkered flag. A red flag means stop RIGHT

AWAY, not coast to the start/finish line. If a car rolls over, do not pass the vehicle. We will turn it right side up. NO time trials. Starting position is determined at a drivers meeting 30 minutes before show time. You MUST attend the meeting if you intend to dive. It will be assumed that you do not wish to enter if you are not there and you will not be entered in the line up. Starting line up is a reverse order of current point standings. If ties in points occur, lowest number goes first.

- 5) FLAGS – **Green** means the race is on. **Red** means stop NOW, do not pass any cars. **Black** flag rolled up and pointed at you means a warning for being too aggressive. If this happens a second time, the race is over for you. **Black** means pull over you are disqualified. **White** means one more lap before finish. **Checkered** flag means the race is over.
- 6) PAINTING – Painting your car is a MUST. It doesn't have to be fancy but it is compulsory. Use bright or light colours please. Even if they aren't race cars, they can look like it. **NO FOUL LANGUAGE IS ALLOWED TO BE PAINTED ON VEHICLE.**
- 7) DRIVERS APPEARANCE – The driver's appearance is important in order to upgrade the event. We suggest a fire suit, overalls, or team uniforms. Car number must be as specified in regular derby car rules, otherwise you will not be allowed in the arena.
- 8) CANCELLATIONS - You can miss as many of the figure eight shows as you wish.
- 9) PROTEST COMMITTEE – If you disagree with the posted race results, there is a committee to hear your complaint. **WARNING** – there is a fine for those racers who interfere with lap checkers before the race results are posted. Third offence means you loose whatever position you are in and take your car home.
- 10) STAFF – The officials word is the final word.
- 11) CAR NUMBERS – Every vehicle must have a roof top sign. Minimum size is 24" X 24" with the number in black on white or white on black. **NUMBERS MUST BE VISIBLE TO LAP CHECKERS!!** The number must be on both sides of the sign. The sign must be securely fastened to the roof, but must in no way reinforce the vehicle.
- 12) FLASH CARDS – All contestants must supply a bristle board flash card with their number on it. It should measure 3ft x 3ft with the numbers 2ft x 2ft. They should be white on black or black on white only. This is only for mini derby.

SECTION B – CAR PREPARATION RULES – ITEMS YOU MUST DO TO YOUR CAR

- 1) **REMOVE** – All glass (including windshield), plastic ornaments, chrome trim blow door handles (handles can stay on), plastic grilles, hubcaps, lights and bulbs, horn trim rings, trailer hitches and mountings, spar tire and rim, air conditioning system must be discharged, and stock fuel tank. Car must be clean of loose objects and glass. Remove all upholstery except front seat. Wheel weights must be removed.
- 2) **DOORS** – Doors must be reinforced. A door bar must protect the driver and passenger doors. This bar must be a minimum of 6” wide ¼” channel iron for both sides. These bars must not exceed the total length of 5’6”. The door bar must be attached to the sides of the vehicle with a minimum of 3 – ¾” diameter or larger bolts on each door bar. These bolts must pass completely through the side of the vehicle, through a minimum 6” square washer plate of minimum ¼” plate steel then through a nut. Holes through door bars and washer plates must closely fit the bolts. Side doors must be bolted or chained shut. Edges of door bars must be trimmed at an angle. Door seams can be welded in 3 inch increments to stop the door from folding up inside the passenger compartment.
- 3) **HOOD AND TRUNK** – The hood must be secured with a maximum 1-inch ready rod. This must be done at four points with only two allowed to go to the frame. The trunk and/or hatch must be secured by chains or bolts. Washer plates of ½” or less thickness steel may be used. These washer plated may not be larger than 25” square (i.e. 5”X5” or 6”X 4”).
- 4) **CROSS BRACES** – A cross brace must be attached behind the driver’s seat. A second cross brace must be mounted above the steering column. The cross brace must be made of a minimum 2” diameter pipe welded to a minimum 6” square washer plates of minimum ¼” steel on both ends. No muffler pipe. Telescopic braces must be pinned to prevent collapsing in impact. Steering column must be chained up to dash bar. Hardtop cars must have a diagonal brace from the drivers side of the rear cross brace to the passenger

- side frame or lower door sill or if head post goes roof to floor, cross brace must be securely attached to it.
- 5) SEAT BELT & WINDOW NETS – All vehicles must have a synthetic net or screen fastened over driver's window and passenger side window, if a passenger is taken. All drivers/passengers must have harness in good condition. All attachments must be secure.
 - 6) HEAD REST – A sturdy metal headrest must be installed in all cars. Either doorpost to doorpost or floor to roof type acceptable. Use two pipes, one to slide inside the other for universal use. Post to post type must be below top of front seat and with padded vertical bar. Headrest pad where helmet would touch must be flat and padded. Should be an area 6 or 8" square. NO LONGER CAN YOU WRAP FOAM AROUND PIPE. If headrest is mounted far behind seat, a spacer must be used to place headrest pad right behind your helmet. Headrest must be bolted to roof, not welded to roof or floor. Headrest bracket can be welded or bolted to top of cross brace. Telescopic headrests must be pinned to prevent collapse in case of roll over.
 - 7) CARBURETOR & FIRE HOLE – You must have a suitable air cleaner on your carburetor to be a flame arrester. Steel mesh filters recommended. No pop, beer or sardine cans or small metal shells. Air cleaner must be fastened securely and must be larger than the carburetor it is on. You must also put a whole, 8" in diameter, on each side of your hood near fender big enough for a fire extinguisher nozzle. Hole over air cleaner or exhaust stack in not suitable.
 - 8) ELECTRIC SYSTEM – Battery must be relocated to the passenger side of the vehicle or behind the front seats. It must be totally enclosed in a box constricted of minimum 1/8" steel secured to the floor with bolts, nuts, and a minimum 2" washer. The battery box lid must be made of steel or minimum 1/2" plywood and must be insulated to prevent short-circuiting. Stock ignition switches must be replaced with ON/OFF switch and START switch, clearly labelled. All wiring must be insulated by wrapping a piece of rubber around it when passing through the firewall (i.e. radiator hose or heater hose). Wiring must not pass through the same hose as the fuel lines, or be attached to the fuel line. All wiring must be secured to the car Positive and negative cables must be insulated from each other. A 24 volt starting system is allowed consisting of a minimum of 2 batteries. Electric fuel pumps are permitted but must be wired through switch and clearly labelled.

- 9) GAS TANK – A custom-built derby fuel tank constructed of minimum 1/8” thickness steel must be securely fastened into the rear seat area of the vehicle using minimum 2” washers. Tank and cap must not leak if inverted. The fuel fitting and vent must be on the top of the tank and the vent must have a checker valve or pigtail plumbed through and securely fastened to the floor of the car. A large drain hole must be cut in the floor directly beneath the tank. The fuel line must pass through the passenger compartment and must be made of metal or fuel proof rubber. It is recommended that fuel lines pass through a garden hose the length of the passenger compartment. The fuel line must be protected with floor mats or similar material through the firewall.
- 10) SPEED EQUIPMENT – Performance equipment is discouraged. You will find that extra large intake or exhaust manifolds can’t be used unless the heads are changed. If you put a different head on most engines, the valves will hit the pistons etc.
- 11) FUEL SYSTEM – Stock for car only. High-pressure fuel injected systems and carburetors are allowed.
- 12) EXHAUST – Modified or dual exhaust or headers are allowed, but not worth the time unless already on the car.
- 13) MOTOR CHANGE – is ok but must remain 4 cylinder or less.
- 14) TIRES & WHEELS – Passenger vehicle stock steel rims and maximum 8-ply DOT Street tires only. Maximum one tube per tire. One tire per rim inflated with air only. No foam fillers allowed. Tires may be screwed to rim. Wheel well openings may be enlarged to the limit of the stock tires. Sharp edges must be bent over or otherwise made safe. NO ALLOY WHEELS.
- 15) FUEL – Service station pump gasoline only.
- 16) SAFETY WINDSHIELD BAR – A steel retaining bar or chain must be securely attached from cowl to roof only. If flat bar is used, it must be 2” wide and 1/4” thick.

SECTION C – ITEMS YOU MUST NOT DO TO YOUR CAR

- 1) NO REINFORCING – NO trailer hitches permitted, remove its frame and all components. Also no reinforcing of wheels, chassis, frame, radiator, radiator base, etc.
- 2) COOLING SYSTEM – No cooling system other than stock is permitted. Radiators and/or fans however can be removed. You can move radiators ahead but not back if making a motor swap.
- 3) DAMAGED CARS – All repairs on fresh or pre run vehicles must be pointed out to tech officials by driver or pit crew before the race. When repairing damaged derbied vehicles no material stronger than what you are repairing or replacing may be used. Material must be stock and can be welded into position. No overlapping or underlapping of stock frame material when preparing. A flat butt weld will only be allowed. Stress cracks may be welded on frames. To repair broken leaf spring shackles, extra chain can be used. One wrap only.
- 4) SEAM WELDING – No seam welding of floor panels etc. You cannot pre-weld frame seam joints.
- 5) EXHAUST – Do not remove headpipe. Muffler and tailpipe may be cut off.
- 6) HEIGHT – Reverse or extended spring shackles not allowed if raises the height of your car beyond stock.
- 7) TIRES – No tires allowed beyond 8ply. No studded tires. For your convenience we allow mismatched tires and wheels per type of vehicles also summer or winter tires. Tires and wheel size however, cannot be greatly increased. REMEMBER – wheel weights must be removed.
- 8) FUEL – You cannot use any fuel other than pump gas. No aviation fuel or additives. NO STARTING FLUID allowed whether portable or permanent.
- 9) BUMPERS – No home or custom made channel iron bumpers. No inverted bumpers, No pins through bumpers or isolators. A pipe made of a similar light gauge as original bumper rebar may be welded from frame rail to frame rail but can not go past the frame rail.
- 10) SHOCKS – No air or add on coil over shocks.