



*“ THE WORLD'S TOUGHEST MOTORSPORTS BATTLEGROUND ”*

## 2021 Figure Eight Ironmen Rules

THE RULES AND/OR SPECIFICATIONS 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 SPEEDWAY EVENTS, AND BY PARTICIPATING IN THESE EVENTS, ALL SPEEDWAY ENTRANTS ARE DEEMED TO HAVE COMPLIED WITH THESE RULES. NO EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS OF, OR COMPLIANCE WITH THESE RULES AND/OR SPECIFICATIONS. THEY ARE INTENDED AS A GUIDE FOR THE SPORT AND ARE IN NO WAY A GUARANTEE AGAINST INJURY OR DEATH TO PARTICIPANTS, SPECTATORS, OR OTHERS.

NOTICE: Creative interpretation and/or anything that may not be covered by the following rules or racing procedures are the sole responsibility of the Driver. If a question should arise a Driver should inquire with a Painesville speedway Competition Inspector and/or Race Director before proceeding. Any decision on questionable items about rules and racing procedures is up to the Competition Inspector and/or Race Director and their decision is FINAL! Remember: It is the responsibility of the Driver to keep his/her car legal and follow all rules and racing procedures at all times. Infractions of technical rules of any kind may result in an additional weight penalty, forfeit qualifying, or not being able to compete until infraction is corrected. Penalty will be determined by a Competition Inspector and/or Race Director.

This class is open to any cars from 1969 to present. RWD ONLY! S-10 Trucks are permitted as long as they conform to all rules. No cars will be permitted to race if they need a computer to run. No fuel injection cars permitted. Minimum 107” wheelbase. All drivers must be at least 17 years old to compete in this class. You must have one years’ experience in any other division before you can race Figure Eight. You don’t need the one year experience if you are over 18. The Painesville Speedway has the right to refuse and/or grant any driver acceptance to participate.

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## **1.0 CHASSIS:**

- 1.1 Frames must be stock OEM dimensions front to the middle of rear hump.
- 1.2 Frame may be replaced from the middle of the rear hump using maximum 2x3 box tubing.
- 1.3 All suspension mounting points must remain stock and meet OEM dimensions.
- 1.4 Frame cannot be altered for fuel pump.
- 1.5 Frames may be X'ed using maximum 1.5" round or square tubing with .095 wall.
- 1.6 Frame can be no lower than 5" from the ground with driver at any point.

## **2.0 WEIGHT**

- 2.1 Car must weigh a minimum of 3300 lbs and maximum of 3600 lbs with a maximum of 55% left side with driver at all times.
- 2.2 We will weigh cars before Qualifying.
- 2.3 If weight is lost during a race it cannot be returned to the car for post race inspection.
- 2.4 All weight must be painted white with the car # and class painted on the piece.
- 2.5 Weight must be bolted down with a minimum of two ½" bolts.
- 2.6 Hanging weight can be no lower than fuel cell in rear or below frame on side rails.
- 2.7 Any evaluation during inspection may assess a weight penalty for items not covered or deemed non-conforming.
- 2.8 No excessive reinforcement, you may be asked to remove excessive bars and plating.

## **3.0 SUSPENSION**

- 3.1 All suspension must remain OEM for your cars make and model.
- 3.2 Cross breeding or interchanging of parts is prohibited. (Ex: 74 Chevelle spindles on 78 Malibu)
- 3.3 Load bolts are permitted in rear only.
- 3.4 Racing springs, 1 per wheel in stock location permitted.
- 3.5 Twist blocks and spacers are permitted.
- 3.6 Aftermarket stock replacement tubular A-frames are permitted.
- 3.7 For metric cars A-frames must be 8" for right side and 8.5" for left side.

- 3.8 For full size/camaro cars A-frames must be 9" for right side and 9.5" for left side.
- 3.9 Lowers must remain stock OEM.
  
- 3.10 No aftermarket or adjustable ball joints.
- 3.11 Limited slip rear ends and Ford 9" rear ends are permitted.
- 3.12 Shocks must be replacement shock for car year, make and model.
- 3.13 No rebuildable, adjustable or inverted shocks allowed.
- 3.14 Steering shaft must be collapsible.
- 3.15 If not stock, minimum 2 universals.
- 3.16 No offset front or rear control arm bushings, they must be stock replacement or polyurethane.
- 3.17 No moon ball bushings, solid steel bushing is OK.

#### **4.0 BRAKES**

- 4.1 Brakes must be stock for car make and mode.
- 4.2 Brakes must work on all four wheels.
- 4.3 No rear disc brakes allowed.
- 4.4 Adjustable brake bias is permitted as long as it is not in reach of the driver.
- 4.5 No anti-lock or trick brake systems allowed.
- 4.6 Coleman Style 2 piece rotor is permitted.
- 4.7 No traction control devices of any kind permitted.

#### **5.0 TIRES**

- 5.1 One set of tires per half the season is permitted. This will be policed.
- 5.2 Same four feature tires must be used for first half and a new set may be purchased for the second half.
- 5.3 Tires will be marked and checked.
- 5.4 Must have 7" or 8" steel wagon wheel or wheel of same specification on right side of car in the oval races.
- 5.5 Stock rims permitted in Figure Eight feature.
- 5.6 8" maximum width on all four wheels.
- 5.7 1" lug nut is mandatory.
- 5.8 55 minimum tire durometer rearing, no tolerance.

5.9 Hoosier Comanches will be ran in the oval. Hoosier G-60s will be ran in the figure eight. Tires MUST be purchased through The Painesville Speedway.

## **6.0 BODY AND INTERIOR**

6.1 Hoods and trunks may be gutted.

6.2 Must have hoods and trunks pinned.

6.3 Body must be factory, inner panels may be removed.

6.4 Cross breeding of chassis and body permitted. (Ex: 81 Monte Carlo frame and engine with a 89 Ford Ranger body)

6.5 Stock floors may remain or be removed.

6.6 If removed, driver compartment must be made out of .125 steel sheet metal.

6.7 The rest of the floor can be aluminum.

6.8 All car doors must be welded shut.

6.9 Grill, headlight buckets may not be made from plate or tied into the bumper, 14 gauge steel only, maximum of 1 layer.

6.10 Maximum 5" spoiler allowed, no wider than deck lid.

6.11 No spill boards.

6.12 Bumpers may be gutted and one maximum 1 3/4" x .065 tubing may be added behind skin.

6.13 Trunk floor may be removed.

6.14 External tow hooks or chains are required for the front and rear.

6.15 All upholstery, lights and exterior chrome must be removed.

6.16 Hood and window molding may remain.

6.17 No rear view mirrors.

6.18 All holes in floor and firewalls must be covered with sheet metal.

6.19 No spray foam

6.20 All sheet metal interior or exterior must be welded or riveted. No screws permitted.

6.21 Windshields may be stock glass or lexan. If lexan or screen is used, a minimum of three 1" safety bars connected to roll cage inside of car behind windshield must be installed.

6.22 All other glass must be removed.

6.23 No reinforced bumpers or body panels.

## **7.0 ROLL CAGE**

7.1 Must be four point cage and have driver's door side bars at a height to protect the driver's legs and torso from impact.

7.2 You may connect front and rear hoops. Tubing must be 1 3/4" seamless with minimum .090" wall thickness or 1 1/2" seamless with minimum .095" wall thickness.

7.3 All bars must be solidly welded and will be rigidly inspected.

7.4 No bars may be connected to the bumpers or kick down (forward) to any point from the radiator protection bars.

7.5 Bumpers must be chained up or sliders must be installed, this will be inspected.

7.6 No mounted solid bumpers. No mounting of any suspension parts to cage.

7.7 If fuel cell is dropped, a protection bar is required. Must be lower than cell and made with minimum 1 1/2" tubing.

NOTE: You are NOT allowed to have cars that are built as battering rams. Front bars must be able to bend on impact, so the driver's body doesn't absorb the shock. No more thick beams behind the bumpers that are bent and tied into front fenders. You can have a radiator protection bar but can no longer have bars coming off securing to bumper.

## **8.0 BATTERIES**

8.1 Battery may be moved into the driver's compartment, but must be mounted in a plastic marine type box.

8.2 Battery must be mounted with strap and will be rigidly inspected.

## **9.0 FUEL CELL/GAS TANK**

9.1 Not to exceed 22 gallons.

9.2 Must not be any lower than 10" with the frame height set to 5".

9.3 Must have 16 gauge can build around cell if it is plastic and is dropped through tank floor or trunk floor is removed

## **10.0 ENGINES**

10.1 Engine must be left in stock position. Mid mounts are permitted.

- 10.2 Anyone who runs a CT350 Crate Engine (19258602) engine can weigh 3300 lbs with 56% left side weight.
- 10.3 If a Crate Engine is dynoed with a horsepower over 360, you will be banned from racing for a season from the date found. At any point you can be asked to pull your engine from your car before you leave the speedway. It will be returned by Tuesday.
- 10.4 650 4bbl unmodified Holley, No Barry Grant or other carbs allowed.
- 10.5 Absolutely NO modifications can be made to the engine.
- 10.6 No valve spring upgrades (they may be replaced with original springs, if needed). No balancer changes.
- 10.7 No crossbreeding. GM to GM, Ford to Ford and Chrysler to Chrysler. Chevy 350, Ford 351 and Chrysler 360 with a maximum of .060" over stock bore.
- 10.8 No stroked or destroked engines.
- 10.9 No engine to be over 365ci.
- 10.10 No bowtie or aftermarket blocks. No angle plug or vortec heads permitted.
- 10.11 Only original OEM 23 degree or world product #043600-1, 042660-1, 042670-1 limited to maximum 2.02 intake and 1.60 exhaust valve size.
- 10.12 Compression not to exceed 10.5 to 1.
- 10.13 Valve springs, retainers and push rods must be magnetic steel only.
- 10.14 Roller Rocks permitted, no jesel set up.
- 10.15 Hydraulic lifters and camshaft with maximum .450 gross lift at valve permitted.
- 10.16 Must run phenolic carb spacer 85-060.
- 10.17 Edelbrock #350-2101 intake must be used. No other intake will be permitted.
- 10.18 No sanding, porting, polishing, port matching, acid dripping, internal painting/epoxy or removal or additional of material of heads or intake permitted.
- 10.19 Must use stock appearing HEI distributor. No external coils or MSD boxes, all parts must be under the cap.
- 10.20 Stock unmodified center dump or log style cast iron exhaust manifolds or 1 5/8" header and a 2 1/2" collector.
- 10.21 Exhaust pipes not to exceed 2 1/2" O.D. and must extend behind the driver's seat.
- 10.22 No exhausting holes may be drilled or cut into pipes; they must be solid past driver.
- 10.23 No tips to exceed 2 1/2" O.D. and no homemade boxes.
- 10.24 Over the top headers permitted part #135H from Schoenfeld ONLY!
- 10.25 Unmodified Holley 4412 carburetor with a 1" spacer/adaptor. You may change jets, float level, power valve, no big boosters, weld throttle plate, accelerator pump cam, and accelerator pump discharge nozzles.

10.26 Holes, top and bottom, in spacer/adaptor can be no larger than the carburetor holes.

10.27 Altered gaskets, base plates or drilling of holes will not be permitted.

10.28 Must have thin paper type gaskets on carburetor and spacer. Choke plate must be removed.

10.29 Air cleaner with filter required.

10.30 Must have two return springs pulling in different directions.

10.31 No electric fuel pumps or plastic/glass fuel filters.

10.32 Radiators must be in good condition and have one gallon overflow can. Also must have 180 degree upper fan shroud. Only clear water permitted.

10.33 No antifreeze or coolant additives permitted. Fine will be assessed.

## **11.0 TRANSMISSION/FLYWHEEL**

11.1 Automatic transmission must be fully functional OEM components.

11.2 Stock type torque convertor no less than 10" and completely functional.

11.3 All transmission lines must be metal.

11.4 Aftermarket coolers are permitted.

11.5 Standard transmission must be OEM with no internal or external modifications.

11.6 Must have all working gears.

11.7 Must be stock OEM clutches, pressure plate and flywheel.

11.8 Single disc minimum 10 ½" clutch and pressure plate.

11.9 No aluminum flywheel, clutch discs, double or triple permitted.

11.10 Clutch, flywheel and pressure plate must weigh 35lbs min.

11.11 Stock steel driveshaft must be painted white.

## **12.0 SAFETY**

12.1 Driver must wear flame resistant driving suit and gloves without holes.

12.2 Must have three inch 5 point belt system (shoulder, seat and crotch belt) and must be no older than five years.

12.3 If belt is damaged or date tag is missing or not legible it must be replaced.



12.4 Belts must be bolted to the roll cage. Mounting of harness will be rigidly inspected.

12.5 Padding must be added to any bar or edge that can be reached by driver while strapped in.

12.6 Only Snell rated helmets can be used.

12.7 2 ½ lb minimum dry chemical or halon fire extinguishers fully charged mounted in drivers reach with a quick release mount is required.

12.8 Aluminum racing seat is required with headrest. Full containment seat is recommended.

12.9 Seat must be mounted with a minimum of four ¾" bolts with washers to the roll cage. In no way should the seat be bolted to the floorboards.

12.10 Must have drive shaft hoop located near the front of the drive shaft.

12.11 Raceceivers MUST be on at all times.

### **13.0 PAINTING/NUMBERS**

13.1 All cars must be painted and neat in appearance at all times. They must look like a race car; badly damaged cars must be straightened. Name and number must be seen from tower. The numbers must also be on the windshield with class letter "D" 3" high under the numbers. No letters or fractions. If car has two drivers, each driver must have his own number on the night he/she drives the car