

# **IMPACT**

## **SURVIVAL SERIES**

# **2022 Rules**

The Impact Survival Series is a member of the Promoters of Wisconsin Auto Racing (POWAR). Suspensions from other POWAR member tracks may be enforced at ISS races and ISS suspensions may be enforced at other POWAR member tracks.

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### **Rules 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 EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATION OF OR COMPLIANCE WITH THESE RULES AND/OR REGULATIONS.** They are intended as a guide for conduct of the sport and are in no way a guarantee against injury or death to participants, spectators, officials, or others. The series and/or track officials shall be empowered to permit minor deviation 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 ALTERATION OF SPECIFICATIONS.**

## 2022 RULES

If any competitor's car, in a post race inspection, is found to be guilty of a major rules infraction then said competitor will be stripped of any points and money from that event, receive their car back minus any illegal parts, and may be suspended from competition for up to a year. Major infractions include – but are not limited to – Aluminum Flywheels, Non-stock Camshafts, Porting and Polishing, LSD Transmissions (if not factory equipped).

### Eligible Vehicles

1. Any three or four-cylinder front wheel drive car with a maximum wheelbase of 107.1" or less with the following exceptions:
2. **NO** Convertibles, **NO** Trucks or Minivans, **NO** Turbo or Supercharged Engines.
3. This is a true "Stock Car" class. We expect a stock engine for that make and model from the throttle body to the exhaust manifold, stock transmission, stock frame, stock steering, stock front & rear firewalls, stock dashboard, stock steering column, stock pedals, stock unaltered differential, no welded or locked differentials. Engine swaps for the purpose of a sturdier car are allowed with advance permission. Like putting an Escort 1.8 into a newer less rusty body, NOT putting a K or Series Honda into a Civic.
4. Any car with a 2.5L DOHC or a factory horsepower rating of 200 or more can bolt 100 lbs down to the passenger seat mounts or start 2 laps down.

### Preparation of Vehicle

1. Remove all insulation and upholstery from the interior and under the hood
2. Remove all the Airbags.
3. **All holes in floor or firewall must be covered with securely mounted steel.**
4. Sunroof opening must be sealed off with securely mounted steel.
5. Exterior mirrors allowed on Black Top ONLY. Interior mirror allowed.
6. Remove all glass except windshield.
  - a. If windshield is removed cars must have a minimum of three (3) 3/8" support braces.
  - b. Lexan or wire mesh 1" or smaller with .035 or larger wire **complete windshield opening side to side must be covered.**
  - c. All window openings, besides the windshield, will be wide open. No "quarter fillers". It is important to be able to see through the cars ahead.
  - d. **Window Nets ARE MANDATORY.**
7. Seat and Seatbelts
  - a. 5 point racing harness, including crotch belt required.
  - b. Shoulder belts need to be supported at shoulder level lap belt mounts should swivel.
  - c. Racing seats allowed, securely mounted to the roll cage. Secure both the bottom and the back with oversize washers.
  - d. All seats must have a headrest.
8. Battery
  - a. If relocated, must be secured by minimum 1/8" x 1" steel strap with minimum 3/8" hardware with large head washers.
  - b. No matter location, Battery must be secure and battery must be covered.
9. Gas Tank
  - a. Stock tank may remain in place if it is ahead of the rear axle.
  - b. If behind the rear axle it must be replaced with a fuel cell or boat tank (8 gallons or less) and mounted in the trunk.
  - c. Fuel cell or boat tank must be secured by minimum of four (4) 1/8" x 1" steel straps with minimum 3/8" hardware with large head washers. NO plumbers tape.
  - d. If fuel cell is used, trunk firewall must be sealed off **and stock trunk lid on stock hinges in place.**
  - e. If fuel line runs through the car, it must be in a sealed conduit.
  - f. Cars with fuel leaks will not be allowed to run.
10. Brakes
  - a. All cars must have functioning four- wheel brakes.
  - b. Cars not appearing to have adequate brakes will be black flagged.
11. Hood and Trunk
  - a. Hood may NOT be gutted. Trunk may be gutted and trunks/hatches are not required **EXCEPT if you have a fuel cell.**
  - b. Hood must be on the stock, working hinges
  - c. Factory hood latch can be replaced with hood pins or seatbelts.
  - d. Engine compartment must be sealed off from Driver at the back of the hood/base of the windshield cowl.
12. Bumpers
  - a. Bumper must be stock.
  - b. Bumpers should be chained or strapped to the frame.
  - c. Damaged bumpers may be replaced with another car bumper or may be fabricated out of a single tube no larger than 2½" in diameter no thicker than .095. Metal bumpers should be capped to fenders.
  - d. NO angle iron, NO channel iron, NO additional bracing, NO trailer hitches.
  - e. Inspector has discretion and final say on all "repairs".
13. Doors
  - a. Doors must be welded or Locked and chained shut.
  - b. Three (3) Driver's side door bars are required. See Roll Cage and Bars later in the rules.
  - c. Driver door may be gutted **for door bars but then the door should be plated. Excessive gutting may result in penalties.**
  - d. Passenger door may only be gutted if there are passenger side door bars.
  - e. Rub rails allowed IF and only if they are securely fastened, have no sharp edges, have no chance of hooking another car, stick out no more than ¾".
14. Tires, Wheels and Lug nuts
  - a. Stock wheels for make and model of car. Aluminum okay, but no aftermarket or trailer wheels are allowed.
  - b. The Right Front, and ONLY the Right front wheel, may be a stock offset racing wheel maximum 6" wide. Currently the Aero 44 is the only legal wheel.

- c. **NO WHEEL SPACERS ALLOWED!**
  - d. Both front wheels must have oversized lug nuts
  - e. Maximum wheel width 6" **6.5" Factory OEM wheels that correctly fit the hub are allowed.**
  - f. Front tires must be exact equal markings for size and profile. Rear tire stagger is allowed, even different rim sizes.
  - g. Passenger car tires only No Snow Tires – No recaps, no made for racing "cheater tires".
  - h. **Minimum tire aspect ratio will be 50 series for all cars. 50/55/60/65/70/75 are allowed.**
  - i. **NO SNOW TIRES!**
  - j. **Maximum section width is 215. Exception – 225 allowed as a 70 or 75 series only.**
  - k. **Tread Wear UTQG rating of 400 or higher. Lap penalties will be issued for unmarked or out of spec tires.**
15. Exhaust
- a. NO open exhaust. Every car MUST have a stock muffler or catalytic converter.
  - b. Exhaust MUST exit behind the driver.
  - c. Exhaust cannot point at the gas tank.
  - d. Maximum exhaust size is 2" I.D.
  - e. Strap on your exhaust good – you can expect a black flag if it falls off.
  - f. Cars with a long tube header (factory or not) will have a 1½" exhaust "Restrictor" for at least the last 12" or start 1 lap down
16. Radiator and Protection
- a. Any radiator in the stock location is allowed.
  - b. A radiator protection bar constructed of 1" tubing no thicker than 1/8" is allowed. May not tie into strut towers.
  - c. A maximum of 6' total of tubing may be used for the radiator protection bar(s), uprights and braces and any bracing.
17. Suspension – Stock spring, struts, shocks.
- a. Stock springs may be altered. No racing springs.
  - b. Stacking of bump rubbers allowed on right rear only.
  - c. One (1) rubber spring spacer is legal. It must be full circle. No more than 2" thick. It is allowed in any corner. This is in addition to the allowed bump stops on the Right Rear Shock ONLY.
  - d. Sway bar links may be different lengths.
  - e. If it looks too much like a race car it can be given a penalty based on looks alone without further explanation.

#### **Safety Requirements**

1. Snell **2010** (or newer) helmet.
2. Full racing firesuit recommended (either one piece or shirt and pants). Long sleeves and long pants mandatory.
3. Gloves required – racing gloves strongly recommended.
4. Racing shoes or boots strongly recommended.
5. Neck collar or other style head and neck restraint required – neck collar is minimum.

#### **Roll Cage and Bars**

1. Roll Cage
  - a. Minimum tubing size is 1½" x .095 thickness.
  - b. Single hoop roll bar with a minimum 2 angled down bars must be welded or bolted with sandwich plates (4" x 4" x 1/8") to the car.
  - c. Hoop must be full height and width of car.
  - d. The minimum required 2 Down bars must connect at a point at least 2/3rds of the way up the hoop.
  - e. Hoops should be bent in a bender (not kinked) or miter cut and gusseted.
2. Door Bars
  - a. A minimum of 3 door bars on the driver's side going forward from your main roll bar hoop to a vertical bar (forward post) at least dashboard height. This bar may be welded on the bottom to a rocker panel plate and to the windshield pillar on the top.
  - b. If the forward post is not welded solid between the rocker and windshield pillar then it must be connected side to side by a dashboard bar (factory bar acceptable).
  - c. The forward post may continue upward and be part of a conventional 4-point roll cage.
3. Rear bars may connect to the rear strut towers. Rear strut towers may be connected side to side.

#### **Not Allowed**

1. NO radio communication allowed other than raceceiver communications from ISS staff.
2. NO cell phones.
3. NO bracing anywhere besides driver's compartment.
4. NO Great Stuff (or other expandable foam) allowed in fenders, quarters, etc.
5. Drain all anti-freeze – WATER ONLY in radiator. (Except New Year's Day)
6. NO trailer hitches.
7. NO ballast. Lead or other, except for cars specified in #4 under Eligible Vehicles in the first section of the rules.

#### **Additional Criteria**

1. Cars must have legible numbers on both doors and roof.
2. Driver's name must be clearly lettered on both sides of the vehicle on the rear-most part of the quarter panel – higher than the bumper in letters at least 6" high.
3. No obscene, profane or distasteful slogans or markings allowed.
4. Camber is allowable to a maximum of 1 inch measured as the difference from the top of the rim to the bottom of the rim from a carpenter's square. Cutting/Welding/Slotting is allowed to obtain Camber
5. The confiscation (Car Claim) rule will be in effect at all ISS events. The ISS automatically claims the 1<sup>st</sup> and 2<sup>nd</sup> place cars. The car must be presented exactly as raced except for the removal of seat, seat belts and window net. Everything else is as run and any attempt to remove or change anything else will result in disqualification. Cars may or may not be auctioned off on ebay.
6. Raceceivers are Mandatory – Rentals available – bring ear buds!
7. 300 lap races will have a break at approximately lap 200.
8. 16 years of age is the standard minimum age to compete in the ISS. On a case by case basis and track by track exceptions can be made for experienced drivers.

9. Driver swaps (during a race) are allowable as long as the officials are notified. Points and pay stay with the starting driver.

### **PROCEDURES**

**Entry Fee:** Must be received one week prior to event to qualify for the pre-registration deadline

**Line up:** All pre-registered cars will be included in a random drawing to determine the starting lineup. Non-preregistered cars will be lined up behind the pre-registered grid in the order they pass tech. Cars that have not successfully passed tech 1 hour before the scheduled start time lose their starting position.

**Scoring:** Transponder scoring is used at ISS events. You can supply a working AMB 260 transponder, or one can be rented (for \$10) at the event. Non pre-registered cars receive rental units on a first come, first served basis.

**Car Claim:** The ISS keeps the top 2 finishing cars. If the first or second place finisher refuses the car claim, they are disqualified and suspended from ISS competition. All finishing positions move up.

**Penalties:** Cars not passing pre-race tech will be assessed any number of penalty laps at the start of the race.

**Disabled Cars:** Cars that become immobile and warrant a red flag will be left on the track as obstacles. At the 200 lap break if a disabled car is removed from its disabled spot it will be disqualified. If a disabled car from the first half can be made to run, it can rejoin in the second half. If it will roll, and another competitor is willing, you may attempt to push it INTO THE PITS at the green flag after the break.