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RULE BOOK DISCLAIMER

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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.** They 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, or official.

The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose any further restrictions that in his/her opinion does not alter the minimum acceptable requirements. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS.** Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final.

The management of Highland Rim Speedway

2017 Open Wheel Modified amended 5/23/17

Speedway officials retain the right to determine eligibility.

NOTICE: All equipment is subject to the approval of officials. No equipment will be considered as having been approved by reason of having passed through inspection unobserved. Any equipment which does not confirm to specifications or tolerances contained in this rulebook, will not be eligible for approval.

NOTE: All cars must comply with the rules set forth by the Highland Rim Speedway rule book to be eligible for competition. Any and all cars and car parts are subject to HRS technical inspection processes. HRS is not required to follow any other sanctioning bodies or manufactures guidelines in its inspection processes.

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The Management of Highland Rim Speedway

Section 1: Safety

- 1.1 **Head/Neck Support.** SFI rated Head and neck restraint/helmet support mandatory. Full Throttle offers a G-Force SFI rated neck support for approx \$35.00.
- 1.2 **Driving Gloves.** Fire Resistant Driving gloves Mandatory.
- 1.3 **Helmet & Fire Suit.** All Drivers must use an approved SA2000 or Newer helmet and a Fire Suit in all racing activities. Suits must be in good repair and free of tears or rips.
- 1.4 **Fire Extinguisher.** All cars must be equipped with a minimum 2 pound fire extinguisher (fully charged) with working readable gauge mounted securely in car within reach of the driver when belted in car. Must be mounted with quick release type latch.
- 1.5 **Seat.** Aluminum Racing Seat required. Full containment seats highly recommended. Seat should be mounted with no less than 6 -3/8" diameter grade 8 bolts and 1" OD. fender washers, and lock washers or lock nuts.
- 1.6 **Seat Belts.** Must have Four (4) Point seatbelts. (5 point highly recommended) and shoulder harness minimum 3 inches wide no more than 5 years old mount your seatbelts to whatever you mount your seat to. Follow your seat belt manufacturer's guidelines as to proper seat belt mounting angles etc.
- 1.7 **Mirrors.** Wink mirrors and wide angle mirrors are legal. Left and Right side mirrors are legal.
- 1.9 **Window Net.** Must have a Quick Release Type Window Net. Window Net MUST release from top with a quick release type fastener.
- 1.10 **Fuel Cell.** Fuel Cells are Mandatory. Maximum 22 gallon. Minimum can height. The can be no lower than bottom of rear end housing. Fuel cell must be mounted in the center.
- 1.11 **Fuel Cell Recommendation.** It is Highly Recommended that you have a 1/8" Aluminum Plate the height and width of your fuel cell mounted to the front side of the frame that the fuel cell can is mounted in to help keep the rear end from punching a hole in your fuel cell in a wreck
- 1.12 **Fuel Cell Container.** Fuel Cells must be in Steel Fuel Cell container surrounded in a 1" x 1" .065 wall steel tubing frame with minimum of 2 steel straps or tubing running left to right and front to rear. Fuel Cell Containers must be made from 20 gage steel.
- 1.13 **Fuel Cell Bar.** 1 1/2" OD Minimum. Fuel cell bar must be installed behind Fuel Cell. Should be mounted no higher than the bottom of the fuel cell.
- 1.14 **Fuel** Must Run Highland Rim Fuel.
- 1.15 **Fuel Line.** Fuel line can run under car. Fuel line can be run through the car from fuel cell but must be in a 1 pc. steel pipe.

- 1.16 **Quick Release Steering Wheel Hubs.** After market quick release steering wheel hubs are legal. Must be pin less type.
- 1.17 **Drive Shaft Loops.** 2 drive shaft safety loops made of flat steel (1/4 in. x 2 in Minimum Size) required. Drive shaft loops should be mounted 12" in from each end of the drive shaft. This is so that the drive shaft cannot fall onto the track in case of U-joint failure and it also may help keep the drive shaft from coming through the floor board in case of driveshaft failure.
- 1.18 **Drive Shaft.** All drive shafts must have 1/8" Scatter shield surrounding driveshaft is highly recommended. No carbon fiber drive shafts permitted.
- 1.19 **Side Windows & Air Deflectors.** No type of window or air deflector allowed. Side vent windows may not exceed twelve (12) inches at door and must continue 90 degrees upward from that point. NACA ducts for driver fresh air allowed
- 1.20 **Gauge Lines.** All lines to gauges (fuel pressure etc) must be braided steel lines.
- 1.21 **Steering Wheel Center Pad.** Padded Steering wheel center (Nose Pad) highly recommended.
- 1.22 **Roll Bar Padding.** Roll bar padding Mandatory. Must be on all bars on driver's side of car. Thick side of bar padding mounts toward the driver. Flame Resistant Roll bar Padding highly recommended. All bars in reach of driver should be padded with roll bar padding.

Section 2: Body Specifications

- 2.1 **Bodies.** All body rules are the discretion of the tech official
- 2.2 **Spoilers.** Spoilers allowed on rear at a maximum of 8" height and cannot extend past rear quarter panel.
- 2.3 **Foils.** No side foils behind spoiler. Total material not to exceed 8".
- 2.4 **Roof Height.** Roof height must be minimum of 42" and maximum of 52". Max rake from center
- 2.5 **Body Rake.** Maximum 6" rake from front top of door to back of quarter panel with a maximum length of 120"
- 2.6 **Body Width.** Maximum width of Body 66" at any point.
- 2.7 **Ground Clearance.** No minimum Ground Clearance (2016).
- 2.8 **Division Sponsor.** Backside of rear spoiler must be left blank for division sponsor decal.

Section 3: Windshield

- 3.1 **Windshield.** One-half windshield is required on driver's side. Full windshield is recommended.
- 3.2 **Windshield Size.** Windshield must cover complete opening on driver's side

Section 4: Frame

- 4.1 **Stock Frame.** Stock frame – 36" front of centerline of rear end, forward will be standard. Anything else will be subject to a weight penalty, depending on the advantage you might have with a different type frame.
- 4.2 **Frame Adjustments.** No widening or narrowing of frame.
- 4.3 **Fuel Cell Height.** Fuel cell cannot be any lower than 8"
- 4.4 **Fuel Cell Protector Bar.** Must have a fuel cell protector bar at least 1" lower than fuel cell frame.

Section 5: Suspension

- 5.1 **Upper Control Arms.** Tubular upper control arms. Non adjustable UB Machine aftermarket lower A-arms permitted.
- 5.2 **Steering.** No rack and pinion steering permitted. Stock steering only.
- 5.3 **Springs.** Front springs 4" diameter minimum. Rear springs 2.5" minimum in diameter.
- 5.4 **Springs.** Only coil springs or multi-leaf allowed on rear.
- 5.5 **Shocks.** Only one shock per wheel.

- 5.6 **Permitted Shocks.** Steel or Aluminum non adjustable shocks . **No internal or external bump stops permitted.**

Section 6: Weight

- 6.1 **Minimum Weight.** Minimum weight is 2,500 pounds after race.
- 6.2 **Left Side Weight.** Maximum allowable left side weight will be 58 percent of the total car weight at any time.

Section 7: Bumpers & Nerf Bars

- 7.1 **Exposed Ends.** Any item that could cut a tire must be turned in and or have rounded ends.

Section 8: Brakes, Wheels & Tires

- 8.1 **One Brake per Wheel.** Must run one brake per wheel. Single piston caliper.
- 8.2 **Wheels.** Maximum 8" wide steel racing allowed.
- 8.3 **Tires.** In an effort to help control the rising cost of tires for our racers in the Open Wheel Modified Division in 2017 we will be using the **10" American Racer AR153 take off tires** on 8" wheels. We will be controlling the tires by branding these tires, by durometer or any other means necessary to insure the **Top Three Finishers** are on legal track tires. Tires will sell for \$40 each plus tax. **ALL Tires must be purchased from Highland Rim Speedway.** Tires may be used in multiple races. **However** if you finish in the **Top Three (3) Positions** and intend on using any of the same tires in the next event you must turn those tires into tech and they will be impounded until the next race or practice session. You will not be allowed to bring tires to the tire barn and have them stamped at ANY Point. All Tires must be purchased from Highland Rim Speedway. Before you leave the tire barn you must make sure your tires have been stamped. **No soaking or siping of tires. Practice tires will be available Feb. 1st for purchase.**
- 8.4 **Tire Soaking.** No Soaking or Softening of tires. We will have HOT and COLD minimum durometer readings to control Soaking of tires
- 8.5 **Wheelbase.** Minimum Wheelbase 108".

Section 9: Engines

- 9.1 **Engine Size.** No engine size rule.
- 9.2 **Carburetor.** Single carburetor only. **No fuel injected engines unless you are running the LS Engine that came from the factory with the cast iron block (You MUST run the Cast Iron Block version) and it must utilize the stock type fuel injection (injectors must be approved by HRS) and it must also utilize the stock (OEM) intake. This engine must run the Highland Rim Speedway Computer System (HRS Computers will be Pre-Tuned and will be locked).**
- 9.3 **Cooling System.** Cooling system may be modified; glycol antifreeze shall not be used.
- 9.4 **Engine Location.** Any American make engine may be used as long as rear of engine (bell housing flange) is mounted at least 72" forward from cross member. Engine height minimum will be 11" from ground to front of center of crankshaft.
- 9.5 **Fuel Additives.** No fuel additives allowed.
- 9.6 **Wet Sump.** Wet sump allowed. External oil pump allowed, but oil must stay in oil pan. **No Tanks.**

Section 10: Ignition

- 10.1 **Ignition Claim Rule.** \$250.00 ignition box claim rule.
- 10.2 **Traction Control.** No Traction Control Permitted.

Section 11: Transmission

- 11.1 **Permitted Transmissions.** OEM production type transmission permitted; 3 speed, 4 speed, and automatic. No 5 speed transmissions or “in-out” boxes. All units must be clutch operated with clutch inside of bell housing (quick change transmissions optional). In case of Bert, Brinn, Falcon type transmission, it is understood that the clutch is inside the transmission housing.
- 11.2 **Manual & Automatic Transmissions Permitted.** Any manual or automatic transmission. Must have at least two forward gears in working order.

Section 12: Clutch

- 12.1 **Permitted Clutch.** Any clutch assembly permitted.

Section 13: Rear End

- 13.1 **Permitted Rear Ends.** Floaters and quick change are permitted.
- 13.2 **Unpermitted Parts.** No Wide Five, no tube-type axles and no aluminum axle tubes.
- 13.3 **Drive Shaft.** Magnetic steel drive shafts only. Must be painted white.

Section 14: Muffler

- 14.1 **100 dba.** 100 dba will be enforced. If car is not 100 dba, car will not be allowed to practice or race in the event. No exceptions!

Section 15: Protests

- 15.1 **Limits.** May protest within 5 positions in front of finishing position. Protesting driver must have run three races prior to protesting.
- 15.2 **Time.** Must present completed protest form and protest money to tech official within 10 minutes of car being protested clearing scale pad. Car being protested then has 10 minutes to file and pay to counter protest.

Section 16: Driver Changes / Points and Race Procedures

Points Championship

16.0 Points Championship

We will honor our Champion and the **TOP FIVE** in Championship points at our 2017 Championship Banquet. Additional positions in the top ten in points may also be recognized by special request from the car owner and or driver to The Rim management team. The request must be presented in writing and must be received **FOUR (4) weeks** prior to the 2017 Banquet date.

Only our Weekly Racing Series Champions (Divisions with 20 plus race dates) are eligible for Championship point money if money is available.

- 16.1 **Driver Changes.** Pit Booth must be notified of driver changes other than registered **driver in writing** before races begin. It does not matter whom else you have told; you must notify the pit booth in writing of a driver change before the feature event. Failure to do so may result in points being credited to the wrong driver, and may not be changed.
- 16.2 **All Races Count.** All races will count towards point total. **No dropping of bad races.**
- 16.3 **Points.** You must take the green flag in the race to get points.
- 16.3a **Exception to 19.3 rule.** If a car is damaged in the Trophy Dash and not able to compete in the feature event for that class they will receive last place points and pay.
- 16.4 Any **discrepancy** in posted points must be presented in writing to scoring and HRS track owners within 7 days of the event in question.

