



# 2023 Hornet Rules

***If the rules don't say you can't, don't assume you can. Tucson Tech has the final say.***

## 1. VEHICLE

- 1.1 Any 3 or 4 cylinder engines compact car or truck. No cars with turbos or ram induction superchargers. No Honda CRX. Minimum wheelbase 90". Maximum roof height 62". Stock engine for that make and model from the induction system (including factory air filtration) to the exhaust manifold; stock transmission, stock body and frame, and unmodified suspension. Dash, steering, and pedals must remain stock. No hood scoops or air cleaners through the hood. All insulation under the hood must be removed. Officials reserve the right to prohibit the use of any vehicle that they deem unsafe or unfit to race for any reason.
- 1.2 Maximum 2.5L engines. Car and driver to weigh minimum 2300 lbs.
- 1.3 Remove all glass and interior components, carpet; door panels etc. Dash must stay intact. All lights, plastic, door handles and trim must be removed from exterior.
- 1.4 Windshield must be replaced with expanded metal or steel wire mesh and/or Lexan covering 3 feet in front of driver. Must have one center support minimum 1" by 1/8" stock. Must have three minimum 1/4" square tubing bars, centered with driver's seat, in windshield.
- 1.5 Batteries in stock location must be secured by minimum 1/8" x 1" steel strap with minimum 3/8" hardware with large head washers. Battery may be relocated in right front floorboard or located behind the driver's seat. It is recommended the battery be fully enclosed in a metal container. Battery must be strapped independently of metal container.
- 1.6 Exhaust; a complete leak free, tight exhaust with maximum size of 2" O.D. must run from engine to 1ft. past driver seat.
- 1.7 Steering and suspension must remain stock. No modifications except for a quick release steering wheel. Column must remain stock. Ride attitude must be maintained.
- 1.8 Cooling system; any stock radiator allowed which will fit in stock mounts. An overflow container must be mounted in engine compartment. Water only allowed in radiator.
- 1.9 Gas tank. If stock gas tank is ahead of rear axle it may remain in place. If stock tank is behind rear axle it must be replaced with a fuel cell mounted in trunk (maximum 8 gallons). Must be secured by minimum 1/8" x 1" steel traps with minimum 3/8" hardware. Hatchback fuel cells must be covered in a metal case. Cars with electric fuel pumps in tank must have main power cut off mounted and marked on/off in clear site. **Pump gas only**, with an octane rating of no more than 92 octane with no additives of any kind. **RACING FUELS ARE NOT ALLOWED.** NO E85 Fuel.
- 1.10 Fire extinguisher recommended. 2 lb ABC rated mounted in quick release bracket within reach of driver.
- 1.11 Roll cage is mandatory. Cage specifications are: mandatory 6 pt cage. A single hoop roll bar with two down bars and one driver's door bar from driver's door to front floor pan. Constructed of 1 1/3" x 0.095 diameter tubing, must be welded or bolted with minimum 4"x 4" x 1/8" sandwich plates to the car. Hoop must be full height and width of car.
- 1.12 Driver's door must be chained or welded shut. Driver's door steel plating is required. Passenger door must be chained only.
- 1.13 Tire must be DOT street tires. NO racing, autocross, SCCA, ultra-high performance, mud, ice or competition tires allowed. Must be 60 series tires or higher with tread wear of 420 or higher. ALL FOUR WHEELS AND TIRES MUST BE THE SAME DIAMETER WHEELS. All wheels must be OEM. All offsets must be the same on all four wheels, you can have stagger.
- 1.14 All cars are subject to a minimum specification inspection at any time. It is the responsibility of the driver to prepare their car free of defects and in safe racing condition.
- 1.15 Maximum 3" camber on the right front side using a square at the top of the tire.
- 1.16 Maximum 3" camber on the left front side using a square at the bottom of the tire.
- 1.17 No camber allowed in rear suspension.

## 2. SAFETY

- 2.1 For all safety equipment. It will be the sole responsibility of the driver, not track management, their agents/officials or corporate officers to ensure that his/her safety equipment is correctly installed, maintained, and properly used. Any modification to safety equipment for any purpose must not detract from its effectiveness. Please refer to manufacturer installation and usage guide lines and adhere to them.
- 2.2 Aluminum professionally built high back racing seat required. No plastic, etc.
- 2.3 Padded headrest required.
- 2.4 Seat must be securely bolted to and mounted on an assembly that is an integral part of the roll cage. Minimum 4 bolts on bottom of seat and two bolts to the roll bar near shoulder area.
- 2.5 Seat will not be attached to the floorboard. OK only if floor is minimum .125 steel welded between frame rails.
- 2.6 A five- (5) point safety harness, with quick release is mandatory! 3" wide lap belt, 2" or 3" shoulder belts, and a 2" submarine belt. All belts shall be attached to roll cage using minimum ½" grade 8 hardware and safety cables.
- 2.7 Cotton harness components prohibited.
- 2.8 SFI or FIA approved Safety harnesses/seat belts may be no more than five (5) years old. If necessary, proof of purchase may be required. Any visible damage, fraying or sun damage, may require replacement.
- 2.9 Full-face helmets are required and must be worn at all times while racing. Helmet must be 2015 Snell standard or better and have a sticker visible for inspection.
- 2.10 Window net mandatory SFI or FIA approved and may be no more than five (5) years old! Minimum 1" ribbon with release at top only. It is required that all window net releases be updated to the quick release seat belt type with releases located and facing the outside of the car. No close mesh off-road type allowed. Any visible damage, fraying or sun damage, may require replacement.
- 2.11 SFI or FIA approved fire suit, gloves and racing shoes mandatory at all times. Head and neck restraint highly recommended. Neck collar mandatory.
- 2.12 Eye protection is mandatory and must be in proper place at all times.
- 2.13 All cars must have a fully charged fire extinguisher, Halon 1211, ABC or equivalent type with at least a 2 lb. UL rating. Must have an operating pressure gauge which must be visible to tech inspection. If hand held type extinguisher must be securely mounted to the right of the driver's seat, and readily accessible for use. Steel mounts only, no plastic.
- 2.14 Two (2) drive line straps, 1" x 1/8" required. Mounting to be within 6" of the U-Joints.
- 2.15 All cars will be required to have in their pits a minimum of one 5-pound, Halon or dry chemical fire extinguisher. This is to be visible to tech officials and all crew members. All crew members must be made aware of its location, and knowledgeable in the use of the fire extinguisher.
- 2.16 Car and driver will be required to make safety rule violations comply PRIOR to any on track activity.
- 2.17 A single rear view mirror no more than 20 inch long must be mounted inside the car subject to tech approval.

## 3. BODY

- 3.1 The entire body must remain complete and OEM. The only reinforcement allowed is 1×1 square tubing for rub rails the length of the door. No sharp edges.
- 3.2 Bumpers must remain stock and in stock location chained to frame. NO REINFORCING OF BUMPERS. Bumper may be changed but must remain inside fenders. Bumpers must be strapped to fenders.
- 3.3 OEM hood and trunk hinges and latches are allowed but must be secured with hood pins.
- 3.4 No ballast weight may be added, with the exception of what is specified by tech official. All added weight must have two ½ inch grade 5 minimum bolts with lock nuts and large washers top and bottom and location approved by tech. All weight must be painted white and marked with the car number.
- 3.5 Floor pan must be complete. Firewall holes must be sealed with minimum 14-gauge steel. NO HOLES.
- 3.6 Tow hooks/chains must be securely installed in front/rear of car.
- 3.7 Cars must be painted/presentable. Cars in primer are allowed a two (2) grace race maximum.

#### 4. PROTEST RULES

- 4.1 A protest fee of \$125.00 dollars will be collected by track officials before a protest is official. If racer is ILLEGAL, funds will be deposited in point's fund. Protest must be filed within 15 minutes of the posted finish of that division's main event.
- 4.2 Failure to comply will result in but not limited to disqualification, loss of monies and loss of points accumulated to that point. If you are found legal, the track will provide gaskets to reassemble.

#### 5. IDENTIFICATION AND MARKING

- 5.1 Management reserves the right to assign or restrict the display of decals, identification and advertising deemed by the track officials to be in poor taste or otherwise detrimental to the betterment of the sport.
- 5.2 Side numbers must be at least 18" inches high and neatly lettered on both sides of the car.
- 5.3 Roof numbers must be at least 24" inches high and readable from the passenger side of the car.
- 5.4 Cars must have 6" tall numbers on front and rear.
- 5.5 All numbers must be of a contrasting color to the area of the car on which they are displayed.
- 5.6 Driver's full name must be a minimum of 3" inches high on the left and right edge of the roof.
- 5.7 Car owners must register choice of car number with track management prior to the start of the season.
- 5.8 Management reserves the right to require a competitor to use a different number at any time to avoid duplication.
- 5.9 Contingency sponsor and or Class sponsor decals and or patches must be in place.
- 5.10 Top 4" inches of the windshield is reserved by Management for a division sponsor.

#### 6. COMMUNICATION

- 6.1 Race Receiver with one-way communication from the tower is required.
- 6.2 Transponders for automatic lap scoring/timing is required and must be located near the rear axle and no higher than 12" off the ground.
- 6.3 No other communication devices are allowed.

#### 7. ELECTRONICS

- 7.1 No aftermarket computers, traction control devices, automated electronics, telemetry devices, other than those issued by track management, or digital readout gauges are permitted without written approval.
- 7.2 Microprocessors or electronic memory chips are not permitted.

#### 8. RACE LINE UPS AND WINS

- 8.1 If there is no qualifying, heat race line-up is off weekly pill draw.
- 8.2 Main events start positions are from the finish of the last Main Event race. Main event line-up will be determined by heat race finishes and a pill draw for invert of starting order. Winner of previous week's main event will start no better than 10<sup>th</sup> in current week's main event.
- 8.3 After every two Main event wins you will have to add 50lbs to the car where tech instructs you. Tech must weigh added weight before it is installed. TS has the right to add more if needed. No pellets or tungsten allowed. All added weight must have two 1/2" grade 5 minimum bolts with lock nuts and large washers top and bottom approved by tech. All weight must be painted white and marked with the car number. In the interest of safety, a \$10.00 per pound fine **may** be assessed to the driver of any car that loses a ballast weight on the track surface. This fine will be paid to and verified by Tech, prior to further competition.
- 8.4 Cars may go clockwise or counterclockwise, determined by Competition Director. Track course may be adjusted to utilize dirt infield.

**COMPETITIVE RULE:** If there is a rule violation that does not result in a competitive advantage, the Track Officials may issue a correction notice to the car/cars for inspection at the next class race, to be presented for inspection prior to any qualifying or heat races. If the car is not presented and/or the correction not made, the car is subject to disqualification at that race.

**OUT-OF-TOWN CARS:** TS invites all Out-of-Town competitors. Due to differing levels of competition, TS reserve the right to adjust gear, total weight or bias on an individual basis.

**Officials** reserve the right to make final decisions in the interpretation of any rules or race procedures at any time. No equipment will be considered as having been approved by reason of having passed through inspection unobserved.