



## PENTICTON SPEEDWAY HORNET RULES 2022

The rules are designed to provide fair entry level competition for all participants. The emphasis is on keeping this class of cars inexpensive to build while providing a high standard of safety. It is the driver/owner's responsibility to ensure his/her car is legal. If there are any questions about rules, contact the tech director.

Non-conforming cars will not be allowed to compete. Minor variations may be approved at the discretion of tech staff only.

The 2022 season will see the Hornet class rules strictly enforced to regain close competition throughout the class as well as respond to safety concerns associated with the speeds. It is apparent that some cars have made engine modifications over the last few years that are outside of the rules and against the spirit of competition. To negate the advantages gained by these "outlaw" engines and to provide an alternative other than complete disqualification we have implemented the following rules:

- All cars MUST weigh a minimum of 2,500 pounds with driver.
- Any car running below 16 seconds lap times during practice, qualifying or race will be disqualified from competition and all results and points will be nullified.
- Any car with a minimum weight of 2,700 pounds with driver will not be subject to the 16 second rule and will be deemed legal and awarded all results and points.
- Any car utilizing ballast to attain the minimum weight of 2,700 pounds must locate ALL ballast in the front seat passenger area of the car, on top of the floor pan and clearly visible to tech. Ballast must be adequately secured in place. No ballast can be utilized in any other area of the car.

Pentiction Speedway may change the minimum weights at anytime to ensure parity between the two weight categories of cars.

The final decision of the Track Officials and their interpretation of these rules will be the final ruling. These rules are designed to keep the Hornet class an entry level class.

### 1. BODY

- No added bracing
- No sharp edges
- Bodies MUST remain stock in appearance.

## 2. INTERIOR

- All flammable material must be removed except for the steering wheel and pedal assemblies. These are to remain stock for year, make and model of car.
- Under hood and under trunk flammable material must be removed.
- If equipped with an airbag they must be removed.

## 3. WINDSHIELD

- A full windshield is required.
- Cars equipped with a gasket style (non-glued) mounting method must have four metal tabs (two top, two bottom) riveted to the body on the outside of the glass.

## 4. FRAME/SUSPENSION

- Stock factory frame, suspension, and mounting hardware.
- OEM style replacement (adjustable allowed) parts only.
- Coil over springs allowed.
- Adjustable upper control arms allowed. Modifications for caster/camber adjustment are allowed but will be inspected for safety.
- No gutting of interior sheet metal.

## 5. PASSENGERS/CO-PILOTS

- Passengers/Co-Pilots are not allowed in the vehicle under any circumstances.

## 6. WHEELS/TIRES/BRAKES

Hornet Tire American Racers (must be purchased from Penticton Speedway)

Size	Desc	Tread	Ply	Cmpd	Prod#	Tread	WdRim	Dia.	Wt
24.0/7.0-15SH	AR								
782 EE 3	882	J5EKD	7			8.4	24.1	13.68	
24.0/7.0-15	AR								
782 EE 3	882	J5EKH	7			8.4	24.5	13.68	
23.0/7.0-13SH	AR								
782 EE 3	882	J5ELL	7			8.5	23.2	12.57	
23.0/7.0-14SH	AR								
782 EE 3	882	J5ELN	7			7.9	23.2	12.5	
23.0/7.0-14	AR								
782 EE 3	882	J5EYT	6.8			7.9	23.5	12.44	
23.0/7.0-13	AR								
782 EE 3	882	J5EYX	7			8.4	23.5	12.57	

- Must retain factory calipers.
- Removal of hand brake allowed.
- All four tires and wheels must be the same size.
- **Wheels must be stock or steel aftermarket matching stock dimensions**

- Tires cannot extend past the body panels (body panels cannot be altered to facilitate a wider wheel) **THIS WILL BE STRICTLY ENFORCED AT ALL TIMES**

#### 7. GAS TANK/FUEL CELL

- If the stock tank is in the front of the rear axle assembly, it may remain.
- If the stock tank is behind the rear axle assembly, it must be removed and mounted in the trunk/hatch area.
- A fuel cell may be used in place of the stock gas tank, must be securely fastened.
- Stock tank or fuel cell must be enclosed in a metal box with a ground strap from the filler neck to the body if relocated to the trunk/hatch area. Tank must be securely fastened with two 1/8" by 1" wide metal straps.
- A full metal firewall must separate the trunk/hatch area from the passenger compartment if the gas tank has been relocated inside the vehicle.
- Boat tanks allowed but must be securely fastened.

#### 8. ENGINE/TRANSMISSION

- Any mass produced, OEM four cylinder engine with a maximum 165 horsepower as originally advertised by the manufacturer
- Chassis and engine manufacturer DO NOT need to match.
- OEM engine block, head, intake manifold and throttle-body must be stock. You must be able to show tech.
- Cold air intake allowed
- No turbo(s) or supercharger(s).

#### 9. EXHAUST

- Headers allowed
- Must be equipped with a muffler.
- Must meet the 95db track noise rule.

#### 10. SAFETY

- Minimum single hoop roll bar with cross brace and two down bars is required. One end of the down bar to be welded to the top of the roll bar and the other end of the down bar to be welded to the front face of the rear suspension mounting structure and may not be used to stiffen the car. **A four-point cage IS HIGHLY RECOMENDED AND MAY BE MANDATARY IN 2023.** Minimum of two horizontal bars with two vertical support bars on the drivers' side, minimum one horizontal bar on the passenger side. Roll bar/cage material is to be a minimum of 1 1/2" O.D. X .120 wall steel DOM or ERW tubing. Tubing material only. **Round tubing only, any square tubing will not be approved.** Proof of material used may be required and is the responsibility of the driver to provide. Tech. reserves the right to drill a min. 3/16" hole/s in the roll bar/roll cage to verify the material used.

NOTE: Before you build check with Hornet Tech. to be sure you meet the safety requirements. No cage structure to extend forward of the engine firewall or rearward of the center point of the rear suspension mounting structure. Absolutely no other bracing allowed. Gussets recommended where tubing are welded together. All welds to be of good quality and must be as complete as possible. No tack welds! If the roll bar/cage is bolted to the floor pan, 4" X 4" X min. 1/8" thick steel mounting plates must be used with a corresponding plate under the floor pan. Minimum of two, 1/2" diameter, Grade 5 bolts to be used. Cars built with the upright/t-bar systems will be allowed to continue competing, but it is strongly recommended that drivers of these cars update to the new minimum standard.

- Must have door reinforcements, minimum 4" channel, and extending as close to 6" ahead of and 6" behind the door opening as possible without entering the wheel well areas. Channel must be bolted with min. 1/2" diameter grade 5 bolts and large washers to the "A" pillar (windshield) and the "B" pillar (door latch pillar). Channel must be mounted on the exterior of the door and each end must be cut at a 45-degree angle. Angled area must be capped with minimum 1/8" thick steel plate welded to the channel. Top channel must be mounted midway up the door. Grader blade allowed instead of channel iron. Passenger door must be chained **or welded** (min. 3/8" chain) shut.
- Doors must be welded, clamped, or bolted shut securely.
- Stock seat with headrest is NOT allowed. An approved aluminum race seat is MANDATORY. Seat must have a brace to support the shoulder area of the seat. Brace to be welded to the roll bar/cage and must be bolted to the seat with a minimum of **4 3/8 bolts. 2 on the ground and 2 on the back rest.**
- A fully charged 2 1/2 lb. fire extinguisher mounted within easy reach of the driver is required. Metal style mounts. Mount must be bolted or riveted. No sheet metal screws.
- An approved window net is required on the drivers' door. The window net must be in good condition. No frayed, cut, repaired, or otherwise modified nets will be allowed. Net must be mounted with minimum 3/8" diameter solid, unthreaded steel rod, no re-bar. Net must be latched at the top (roof) and open downwards. Window net mounts to be welded or bolted. No hose clamps, rivets or sheet metal screws.
- 5-point SFI race harness mandatory. Must be properly positioned and mounted using the factory seat belt bolts or min. 1/2" diameter **grade 5 or better bolts. Seat belts must have date tags and cannot be more than 5 years old. Shoulder harness must be mounted on cross bar, behind seat, level, or slightly above drivers' shoulders. Cross bar must be welded to roll hoop and approved by tech.**
- Passengers are not permitted.

## 11. PAINT

- Any color
- Doors to remain the color of the body with a min. 18" high number in a highly contrasting color. No design or decoration other than the number is allowed on the doors. Roof numbers, if used, to be 36" (or as large as roof area allows) high.

## 12. MICELLANEOUS

No two-way radio/phone communications between the driver and the pit or the grandstand areas. Violation of any of these rules may result in loss of daily points, trophies, and monies. Serious or continued violations may result in suspension of racing privileges for a period to be determined by the Track Executive. Track Officials reserve the right to refuse to allow a car to compete if the car is considered unsafe due to excessive rust, structural or accident damage. Lineup and direction of race to be decided by the Track Officials. In addition to the Hornet class rules you are required to understand and abide by the Penticton Speedway General Rules.