

Willamette Speedway

2019 Hornet Class Rules

If it doesn't say you can, then you can't. Tech Officials have final say in all decisions.

Safety

- *Fire Suits* – A fire-resistant suit designed for auto racing will be REQUIRED at all times that the car is on the track. A one- or two-piece fire-resistant suit is permitted. Fire resistant gloves, shoes, socks and head socks are HIGHLY RECOMMENDED. The highest quality suits are recommended for all drivers.
- *Helmets, Head and Neck Restraints* – Snell rated SA2005, SA2010 and SA2015 helmets are required at all times that the car is on the track. (M rated helmets are not permitted). It HIGHLY RECOMMENDED that drivers utilize SFI approved helmet skirts, neck and head restraint systems.
- *Seat Belts* – Minimum 3-inch-wide lap belts and 2-inch-wide minimum shoulder belts, SFI approved five-point safety belts are REQUIRED. Center crotch belt must be used and must be mounted to the roll cage seat mount. All belts must be mounted securely to the main roll cage. Must complete matching set from manufacturer. HIGHLY RECOMMENDED to replace every 2 years.
- *Seat* – A professional racing seat is required. Seat must be mounted with a minimum of 3/8-inch grade 5 bolts. It is HIGHLY RECOMMENDED for seat to provide rib protection, have leg extensions and have head rest on both sides. No fiberglass, plastic or homemade seats are permitted.
- *Raceivers are mandatory. No 2-way radios permitted.*
- *Window Net* – Rib style or mesh is allowed. Must be permanently mounted at the bottom and have an approved quick release at the top. Must be in good condition.
- *Fire Control* – All entrants must have a fully charged 10-lb Halon 1211, Haltron-1 or equivalent fire extinguisher in their pit.
- *Fuel Cell/Line* – Fuel cell shall be securely mounted. Recommended to be a minimum of 10 inches off of the ground at all times. AF steel framework, welded to the frame rails, must be used to mount the fuel cell. A fuel cell protector bar made from a minimum of 1-1/4inch x 0.09 steel tubing is required. Fuel cell protector bar must attach to the frame rails and extend down below the fuel cell with a center bar that attaches to the rear frame cross member. Fuel pump must mount in stock location. Fuel lines must be encased in steel where running through the interior. Glass fuel filters are not permitted.

Class Specific

Weight

- A weight rule may be implemented at some point at tech official's discretion
- No ballast allowed. Any item deemed to be ballast will disqualify driver

Chassis/Body/Spoiler

- Any 4-cylinder car or pickup with a wheelbase of 106" or less
- A six-point roll cage constructed of 1-1/2" 0.095 or larger tubing and safety door bars are mandatory
 - A single hoop roll bar made of 1-1/2" 0.095 or larger
 - Roll bar must be behind driver with a minimum of two kicker bars required
 - Roll cage must be welded to frame or bolted securely to sub frame
 - One horizontal bar at shoulder height or X-brace in roll bar hoop
 - Roll bar padding required around driver
- The driver's door must be plated with a minimum of one 3inch x 1/4inch or larger flat bar strap half way up the door starting from in front of door to extend past the rear of door
- Multiple straps or full door plate is HIGHLY RECOMMENDED
- Stock style bumpers are required.
- No re-enforcement of bumpers or bumper supports
- Hoods must have 2 hood pins in front. Must use stock hinges on back of hood.
- Windshield must be Lexan, or 1inch x 1inch or smaller rock guard screen
- All glass, plastic chrome/trim, lights, mirrors and under hood insulation must be removed
- All glass inside of door must be removed
- Third brake light must work
- All cars must have lift hook or chain on front of car
- The battery must be removed from stock location and secured in sealed battery box mounted in cockpit behind driver

Transmission

- Any OEM production transmission with at least one forward and one reverse gear is permitted
- No posi-trac, welded or spooled rear/front end

- No four-wheel drive
- Manual transmission must run approved steel scatter shield
- Berts, Brinn, Falcons, etc..... are not permitted

Shocks/Suspension

- Must maintain 4inch ride height. Measured from ground to lowest point on frame.
- No frame modifications allowed, stock suspension components only
- No aftermarket race or rebuildable shocks
- No spring alterations or different spring rates

Wheels and Tires

- A minimum of a 60 series passenger tire is required. Hoosier G60's are permitted.
- *No mud tires, low profile or all terrain tires allowed*
- *No bead lock wheels permitted*
- *Wheel spacers up to 1" of wheel spacing per wheel allowed*

Brakes

- OEM brake components only

Motor

- Must be 4-cylinder gas engine
- Stock carburetor or stock fuel injection required
- Engine must be naturally aspirated
- No rotary engines, turbo or mid-engine cars
- Engine must remain stock
- No aftermarket parts
- Engine must match vehicle make and model
- Cannot exceed factory horsepower rating of 160hp
- Engine must remain in stock location
- VTEC, ZTEC, etc. will be permitted (must not exceed factory 160hp)
- Exhaust must be leak free and extend behind the driver with muffler that meets 95db @ 100'

Fuel Tank

- If fuel tank is mounted in front of rear axle, it may be used
- If fuel tank is mounted behind rear axle, it must be replaced with a fuel cell, inside of 18-gauge steel box in trunk as far forward as possible
- Fuel cells are required to have two 3/4inch x 1/4inch or larger flat bar mounting straps going from front to back, over and under fuel tanks, and one 3/4inch x 1/4inch or larger flat bar mounting strap going around fuel tank side by side

All Cars

- Must have muffling device resulting in 95dba at 100ft. Super traps to be used only with other muffling device. Must have pick up hook, hoop or chain. Must be self-starting, with full size battery that is secured. Must have clutches, except in Hornets that have automatics. All added weight must be bolted to the frame with a minimum of two 1/2 inch bolts. All added weight and drivelines must be painted white, with the driver's number clearly written on the objects. Acceptable appearance of the car will be managed by the tech official. Numbers must be minimum of 24-inches tall, displayed on roof and both sides of car. Number on side of car must be in center of the side door. Must have 10-inch numbers on front and back of car.

Conduct

- The following actions will result in suspension: use of nitrous oxide, alcohol or drug use, dumping gas, oil or chemicals, use of traction device of any kind or going into another pit spot in anger. NEVER approach the flag stand, your concerns will be dealt with after the races. Result of approaching the flag stand will be a 2-race suspension. During the race: work on car during yellow, must be done in pits, no work on any cars during red, all tire changes must be done in pits.

In keeping with Willamette Speedway's commitment to maintaining proper balance in the competition arena, it may be necessary for Willamette Speedway to make rule changes and/or rule modifications from time to time. Such changes are designed to enhance close competition. Willamette Speedway's goal of a full starting field of various makes in each race, that are equally matched as possible, is certainly in the best overall interest of the sport.