

## 2021 Hornet Compact Rules

The Hornet/Compact division is a budget/economy class that allows drivers a chance to race with minimal investment. This class is about having fun while gaining race experience! Drivers must be at least 14 years of age unless approved in advance by track promoter (Any driver under 18 years of age must provide a copy of birth certificate and minor release, signed and notarized by both parents (mandatory))

### Eligible Cars:

1. Four or six cylinder front or rear-wheel drive passenger cars are eligible with a wheelbase between 92-105 inches
2. No full-frame cars allowed.
2. Cars must utilize engine available in the car/body style being used.
3. No all wheel drive. No all-wheel steer.
4. A functioning diagnostic plug under the dash must be present.
5. Aluminum allowed for hood, fenders, doors.

### Engines & Transmission:

1. Only four or six cylinder naturally aspirated or V-Tech engines will be allowed. **Engine must be completely Stock as manufactured by factory including engine, drive train, ignition components, suspension components, and fuel system, except as noted below. Only the complete stock engine/drive train for the make and model as delivered from the factory may be used.** No rotary engines.
2. All 6-cylinder engines may utilize only one cam per head and 2 valves per cylinder. V-6's must run an automatic transmission. 3.8 GM V6 Engines are not allowed.
3. Stock intake manifold must be used with no modifications.
4. Stock exhaust or headers allowed. Two-inch max diameter. Removal of smog, emission, air conditioning, and power steering parts are permitted.
5. A complete exhaust system must run at least 24-inches of exhaust pipe.. Removal of catalytic converter is allowed.
6. Cars with engines utilizing Dual Over Head Cams or more than 1 cam may NOT have exhaust that exceeds 2" in diameter. All other cars must utilize exhaust with 2" diameter maximum. The exhaust system must be completely sealed and the

maximum diameter must be utilized in at least the last 24" of the exhaust pipe.

7. Must use stock style starter. Battery may be relocated to an area behind driver. If so it must be secured & covered.

8. Transmission must remain stock and unmodified for that vehicle's production.

Transmission must have working forward and reverse gears.

9. No V-Tech Engines. No Adjustable Timing Camshafts. No JDM engines. Turbochargers, superchargers, carburetors, or nitrous oxide are NOT allowed.

### **Body:**

1. All exterior trim, including lights, body moldings, mirrors, etc. must be removed. Stock body panels can't be used. Only stock bumpers may be used. Drivers and passenger door must be welded or bolted shut. Aluminum allowed for hood, fenders and doors. Though discouraged, roof, quarter panels, deck lid may be aluminum but must run a fuel cell and 1-1/2" (.090) downtubes for cage mounting. NOTE: All bodies subject to inspection and approval by the technical director.

2. Cars must have stock frame and stock floor pan. All openings in firewall & floor pan must be covered. Firewall may be aluminum. No reinforcing of body outside the drivers compartment. Hood must be secured with a minimum of two hood pins each (NOT BOLTS).

3. Windshield must be replaced with 3 bars of 3/8" diameter. Bars must be welded to the roll cage in front of driver. All glass must be removed from the vehicle.

4. Spoilers will be allowed Stock or Aftermarket. Aftermarket spoilers can be a maximum of five inches tall and 50 inches wide.

5. All flammable interior trim is to be removed from passenger compartment & trunk. No removal of ANY interior sheet metal panels except in drivers door to make room for cage. Heating and air conditioning box may be removed.

6. Racing Seat is required.

7. Steering column and pedals should remain stock. All air bag components must be removed. Collapsible steering column is recommended. Aftermarket pedals allowed. Single master brake cylinder only.

8. A full four point standard cage is required. Cage must go completely from left to right side and may not protect just the driver's side. All cars must have a minimum of three door bars on the driver's side and two on passenger side. Minimum 1/8" thick plate must be welded or bolted to the outside of the driver's door bars. Cages must be welded or bolted to the floor of the car. All cars must have crush zones and bars cannot go all the way to rear of trunk area if tied to strut tower. A maximum of

two rear down bars may be used to support the hoop. These bars may run from the top of the hoop behind the driver and extend to the front of the rear firewall. A single cross bar or "X" may be used between these down bars. Rear down bars MUST be attached to the trunk FLOOR. Main cage must have at least two bars running from left to right, between the uprights, behind the driver. One at floor level, and one at shoulder height of the driver. Roll Cage tubing must be minimum 1 1/2" diameter and .095 thickness.

9. No "wedge" noses.

10. Main Shut-Off switch for electric fuel pump must be easily accessible by Safety Personnel, and clearly labeled as such.

11. Cars must have tow chains or tow hooks front and back for tow truck pick up.

12. Cars must be neat in appearance and neatly numbered on BOTH SIDES and TOP with a minimum of 18" numbers.

**Weight:** Minimum of 2,200 lbs. (with driver)

### **Tires & Suspension:**

1.. D.O.T. approved passenger car tires only. No "made for racing" tires. Tires can be 13, 14, or 15 inches maximum. They can be 75, 70, 65, or 60 series

2. No wheel spacers of any kind allowed. Racing wheels are allowed.

3. Steering and suspension shall remain stock and in stock location. OEM-style shocks, struts, and springs ONLY may be used. No heating or cutting of spring allowed. Spring Rubbers will be allowed (1 per wheel). No progressive rate springs will be allowed. Car must bounce when "pushed down on."

4. For cars that do not have camber adjustments built in from the factory, modification of existing parts, to allow for camber only adjustments will be allowed, but subject to technical director approval. Front Camber adjustment is 2 3/4" Maximum. Rear Camber adjustment is 1" Maximum.

5. All four brakes must remain stock. ABSOLUTELY NO ABS OR TRACTION CONTROL. All ABS sensors must be disabled.

6. Cars that have fuel tank mounted in front of rear axle may use stock tank. If tank is not mounted in front of rear axle, a fuel cell or marine type tank must be used and securely mounted in the trunk area of the car. Trunk mounted tanks cannot be mounted within ten inches of the rear trunk panel and may not extend beyond the side frame rails. All fuel tank installations must be centered between the rear

wheels. **Racing Fuel Cells HIGHLY recommended!**

7. No emergency brakes allowed.

1. **Safety:**

- A driving suit of a flame retardant nature must be worn by all competitors. If the driving suit is a two piece suit both the top and bottom must be worn at the same time. Nomex gloves are mandatory while shoes, and underwear are highly recommended. Snell rated SA2000 or newer full shield racing helmet is required. An approved 2.5 lb. fire extinguisher in working order mounted within reach of driver is mandatory. Onboard fire protection system is highly recommended.
2. Any car using alcohol/methanol race fuel MUST have a 2" fluorescent orange A on the driver and passenger rear window support.
  3. All cars must have a fire wall between driver and engine, and between driver and fuel tank.
  4. A minimum 3-inch wide SFI approved 5-point racing harness/belts mandatory, which includes a crotch/submarine belt. All belts that are 3 years or older are not permitted. The dates for belts must be legible. Belts must be securely fastened to roll cage with nuts, bolts, and washers.
  5. A made-for-racing high back aluminum seat is mandatory.
  6. A neck collar or HANS or Hutchins device is highly recommended.
  7. Window nets are highly recommended. Quick release system must pass officials inspection or will not race.
  8. Minimum of 4 post roll cage and 3 door bars. Pipe to be no smaller than 1-1/2 O.D. and .090 thick. All bars must be gusseted and welded to the frame. All bars near driver's helmet must be padded. Roll bar padding and neck brace are strongly recommended.
  9. No mirrors allowed.
  10. Batteries must be securely fastened. If in driver's compartment, must be boxed and covered.
  11. Rear wheel cars must have a drive shaft hoop and drive shaft painted white.
  12. Doors, hoods, and trunks must be securely fastened. No car will be permitted to run without.
  13. Driver's compartments must be fully enclosed. Complete floorboard, no holes in firewall, etc.
  14. All cars must have 4 wheel brakes in good working order.
  15. All cars must have a well-marked kill-switch.
  16. Loose objects and/or weight will not be allowed in the driver's compartment.
  17. Exhaust systems must be mounted in such a way as to direct spent gases away from the cockpit area of the vehicle and away from areas of possible fuel spillage.
  18. No carbon fiber, brakes, drive shafts, wheels, etc.

**RACEceiver:**

1. RACEceiver (one way) Radio is mandatory and shall be used by drivers during all wheel packing, hot laps, heat races, and B/A Main sessions. Frequency 454.000

**Additional Rules:**

1. NO WEIGHT OR BALLASTS ARE TO BE ADDED TO CAR unless as a penalty per these rules and must be mounted in location to be determined by officials
2. Cars may be inspected at anytime. If car is found illegal, driver will lose all money and points for that night.

**Consecutive Wins Penalty:**

Any driver or car in the division that wins three consecutive A-Main events at the Gas City I-69 Speedway will be required to start the next A-Main feature at the tail of the field.