



V6 BOMBER CLASS RULES 2023 THIS IS ENTRY LEVEL RACING

Thank you for choosing to review the V6 Bomber Rules of the Medicine Hat Auto Racing Association (MHARA). It is our mission to make racing fun and cost effective as we trend forward.

MHARA executive or track officials may alter, change and implement penalties and methods to keep racing competitive. Cars with 3 laps under 20 second lap times on any given night will have weight added to that car as per MHARA executive requires to slow the car down [100 lbs must be supplied and added by driver to the passenger seat area. Must be securely bolted and will be checked by tech before the next race. May be weighed at any time and if found to be under the 100 lbs the driver (car) will lose all points for that day].

History has continually repeated. Faster cars go faster and faster and eventually there are no cars left in the class to compete against. Steps will be taken to change the repetitive nature of stock car racing so a comfortable car count can be maintained. Those 12 - 17 years old will be allowed to race, with a signed waiver from their guardian, they must use a Hans or equivalent neck restraint and have a 5-point seat belt with a properly fitted seat.

GENERAL RULES

- 1.1 Open to V6, front wheel drive North American cars (Ford, GM, Chrysler). Automatic transmissions only. **No turbo engines or dual overhead cams. 3.0L to 3.6L only No 3.8L**
- 1.2 No all-wheel or four-wheel drive cars.
- 1.3 Cars must be bone stock – no modifications.
- 1.4 Interiors are to be gutted: all panels, carpet, and rear seats. Dashboard is to remain intact. Heater cores, fans, and air conditioning can remain in place.
- 1.5 Battery to remain in original position. Hood and trunk lid hinges must be left intact.
- 1.6 ALL glass interior and exterior to be removed: headlights, tail lights, and windows. May add Lexan to windshield area only.
- 1.7 One mirror on the left/ driver's side.
- 1.8 Must have a stock exhaust or equivalent and must exit past the driver.
- 1.9 No reinforcements of any kind.
- 1.10 When repairing cars, only stock replacement parts are to be used.
- 1.11 Water cooling only. **No antifreeze.**
- 1.12 Must have tow hooks front, and rear, that are capable of lifting the car.
- 1.13 Must have a working transponder mounted close to the rear bumper.
- 1.14 Driver must use a raceiver.
- 1.15 VIN plates remain on the vehicle.

TIRES AND SUSPENSION

- 2.1 Camber of less than 2.5 degrees on the right front only, 1 degree on all other wheels. No other suspension modifications allowed.
- 2.2 14", 15" or 16" rim and tire sizes only. **Maximum tire width is 215mm for all cars.**
- 2.3 Maximum rim width is 7.5 inches.
- 2.4 All tires must be the same size. Steel and aluminum rims allowed. No race wheels.

SAFETY

- 3.1 Roll-over Protection: Minimum 2 round steel pipe posts, 1 behind the driver's seat, the other behind where the passenger seat would be. Steel posts must be a minimum 4" by 1/8" wall thickness. They must be welded to a minimum 12" by 12" by 1/8" steel plates top and bottom. These plates must then be bolted through the floor and roof with a minimum of 4 bolts each plate.
- 3.2 Two door bars that extend across the exterior of the driver's door are required. It must overlap the front fender and rear quarter/rear door a minimum of 4". The bottom door bar should be between 16" to 18" off the ground. These door bars must be a minimum of 4" by 3/16" steel channel or 2" by 3" by 1/8" wall thickness rectangular steel tubing. Must be welded or bolted, if bolting: using **shoulder** bolts that must go all the way through the doors with large washers on the inside. Door bars must be mounted on the outside of the car with ends tapered and capped.
- 3.3 Hood and trunk lid must be pinned down in a minimum of 2 places.
- 3.4 Top half of the driver's side post and side door bars must be padded.
- 3.5 A 4 or 5-point racing harness is required. **The harness must be in good condition: no rips/ tears or fraying – up to the discretion of the tech. official.**
- 3.6 Window net is required.
- 3.7 A Nomex racing suit is recommended. Minimum clean fire-retardant coveralls. Leather gloves and shoes (boots) are required.
- 3.8 Full face helmets. Must be Snell 2010 or newer. Head and neck restraints are required (minimum of a neck collar).
- 3.9 Lexan windshield may be used in place of factory windshield, but must have 3 bars in front of driver for safety reasons.
- 4.0 An aluminum racing seat is recommended, but a bucket seat that is in the car is ok.
- 4.1 Air bags are to be removed.
- 4.2 Master Disconnect switch located on left rear package shelf required. Must kill the engine and fuel pump.
- 4.3 Must have Ford Inertia Switch installed to kill the fuel pump in case of an accident.

OTHER RULES

- 5.1 Cars must be kept in decent appearance. Numbers must be legible.
- 5.2 Numbers must be contrasting in colour to the car and 24" high by 4" wide. Numbers to be placed on the driver's door, passenger door and on the roof of the vehicle.
- 5.3 Nothing may be applied to the car which would be considered offensive.
- 5.4 The decisions of the officials are final in all cases.
- 5.5 Weight to be bolted in, on the passenger seat area, **and by the next race.**
- 5.6 More weight will be added as needed to keep class competitive.

PENDING

Weight distribution, etc. is yet to be determined and will be advised as soon as possible.

Where this is a new class, there might be some slight rule changes or additions as we learn.

This class is designed to be an entry level class and then move up to different classes if you wish to go faster.