



## Bomber Class 2022 Official Rules and Regulations

**DISCLAIMER:** “The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for the orderly conduct of racing events within the Bomber Division at Thunder Valley Speedway. These rules shall govern the condition of all events, and by participating in these events, all participants are deemed to have complied with these rules. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATION OF OR THE COMPLIANCE WITH THESE RULES AND/OR REGULATIONS.** They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator, or official. The Technical Inspector (s) or Director of Racing Operations shall be empowered to permit reasonable and appropriate deviation from any of these specifications herein or impose any further restrictions that in his / her opinion do not alter the minimum acceptable requirements. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS.** Any interpretation or deviation of these rules is left to the discretion of the Director of Racing Operations or his / her appointee. Their decision is final.”

**It is the responsibility of each competitor to read, understand and comply with these rules as written. They are neither foolproof nor exhaustive. They are intended to provide fair and competitive racing for all who participate in this division. The spirit and intent of these rules is the standard that will be used for competition at Thunder Valley Speedway. Thunder Valley Speedway officials are authorized to decide if an equipment change or addition is an attempt to circumvent these rules or provide an unfair advantage. Officials can and will disqualify any entry in violation of the spirit and intent of these rules. Decisions will be based on common sense, consistency, impartiality and fairness. If there is disagreement or dispute regarding the meaning, interpretation, or application of these rules, Officials’ decisions shall prevail. If these rules do not specifically say that you can add, change, or modify something, you should consider that addition, change or modification illegal. Any questions about the legality of an addition or modification not covered by these rules must be answered by track officials in writing, and their decision is final. Thunder Valley Speedway reserves the right to alter or amend these rules at any time in the interests of safety, cost control or fair competition. The safety of each racecar and all equipment is the complete responsibility of the driver/owner, and the driver/owner acknowledges this responsibility by participating in any racing activity at Thunder Valley Speedway.**

## 1.0 – General Info:

- 1.1 – This class is intended for people who don't want to spend a lot of time and money to go racing.
- 1.2 – In the case of an unsafe situation, the race will be temporarily stopped with red flag.
- 1.3 – Any driver that is considered to be driving in an unsafe manner will be disqualified and not allowed to continue.
- 1.4 – Rough driving, verbal abuse or inappropriate behaviour will not be tolerated. No further warning will be given. If violated, the team may be disqualified. Any driver who stops on the race track to protest will be disqualified for the remainder of the evening, scored last in that event, and will forfeit all monies and points earned for the evening.
- 1.5 – The safety of each car and all equipment is the complete responsibility of the driver/owner, and the driver/owner acknowledges this responsibility by participating in any activity at Thunder Valley Speedway.
- 1.6 – Car claim rule will be established if participants start to over spend for this class.
- 1.7 – All cars participating are subject to technical inspection.
- 1.8 – Any cars with illegal non-stock parts will be disqualified and could be subject to suspension or disallowed to race in this class indefinitely.
- 1.9 – Drivers must be 14 years of age. Under 18 years of age, an insurance document (*parental consent form*) must be signed by both parents and/or legal guardians and filed with Thunder Valley Speedway.
- 1.10 – Drivers or their crews will not consume alcoholic beverages at any time prior to or during an event. Use, sale, or distribution of illegal drugs at any time shall be cause for immediate and indefinite suspension. Participation by a team member in either activity will result in disqualification with all points and earnings toward the year end point fund being forfeited.
- 1.11 – *Helmets MUST BE WORN any time that the race car is in motion.*
- 1.12 – If you are not sure of the legality of something on your car, check with an official before the race.
- 1.13 – Any car that is excessively rusted, battered, or is otherwise unsafe will not be allowed to compete.

## Official Car Specifications

### 1.0 – Safety

- 1.0 – An approved DOT full-face helmet must be worn in all race events.
- 1.1 – Helmet must be in good condition.
- 1.2 – Entrants must wear a proper fitting full-faced 2000 SNELL or newer approved racing helmet with proper identification, and have no signs of previous damage.
- 1.3 – Any seat can be used as long as it is bolted in properly.
- 1.4 – 5-point racing belts recommended.
- 1.5 – **Entrants *must* wear coveralls (fire retardant recommended.)**
- 1.6 – **Fireproof gloves are mandatory.**
- 1.7 – **Window net with quick release is mandatory.**
- 1.8 – All cars must have a push-off/pull-on type switch to shut off electric fuel pump mounted on the roof.
- 1.9 – Roll bar mandatory. Roll cage recommended. Door bars recommended.
- 1.10 – All cars must have a charged fire extinguisher securely mounted.
- 1.11 – All air bags must be removed.

## 2.0 – Cars Permitted

- 2.1 – 1975 and newer STOCK 3, 4, 5, 6 or 8 cylinder cars.
- 2.2 – Maximum engine size is 5.7 litres (350 cu. in.)
- 2.3 – Any 4-door sedan or wagon is permitted.
- 2.4 – Must be over 90" wheelbase.
- 2.5 – 5 and 6 cylinder cars must have an automatic transmission.
- 2.6 – No turbo cars, no super charged cars and no rotary engine cars.
- 2.7 – No vans, trucks, or convertibles.
- 2.8 – 4 wheel drive cars will only be allowed with the rear drive shaft removed.

## 3.0 – Body

- 3.1 – **Body appearance must be neat (dents encouraged to be banged out weekly). Battered cars that have been run in demolition derby-type events will not be allowed. Discretion will be left to technical director(s).**
- 3.2 – Doors must be welded, bolted, chained or wired shut.
- 3.3 – Hood can be wired, chained or bolted shut. Hood pins are allowed.
- 3.4 – Hood must have a minimum 15" hole if no hood pins are used for quick access.
- 3.5 – No gutting of hood, roof or any interior metal.
- 3.6 – Sunroof must be replaced with metal.
- 3.7 – Bumpers can be from another car but cannot be wider than original bumper (no sharp edges). No homemade bumpers. Event must be started with front bumper; rear bumper is optional. Rear bumper must be chained or wired so it won't fall off.
- 3.8 – Hatch or trunk lid can be removed.
- 3.9 – Wheel arches can be trimmed for wheel clearance.
- 3.10 – All glass and flammable material must be removed with the exception of:
  - 3.10.1 – Stock type driver's seat, headrest mandatory. Racing seat allowed.
  - 3.10.2 – Dashboard can be removed or can remain.
- 3.11 – Stock steering column only.
- 3.12 – All taillights headlights, trim, door handles must be removed.
- 3.13 – **Paint and Numbers must be neat. Use clear, sharp numbers with contrasting colours (no messy spray bomb numbers). NO VULGAR Writing or Pictures allowed.**

## 4 – Roll Bar

- 4.1 – A minimum two-point roll bar mandatory. Must be minimum 1 3/4" X .095" round or square tubing welded to 6" X 6" X 3/16" plate welded or bolted to floor with minimum four 7/16" bolts with large washers on top *and 6"x6"x1/8" plate under the floor pan. A 2" bar running horizontally between the uprights approximately 3" above the floor is recommended to provide lateral stability.*
- 4.2 – A horizontal bar must be welded or bolted to the left doorpost and right doorpost and must be welded or bolted to the roll bar.
- 4.3 – Four door cars can weld or bolt the horizontal bar to the left rear door panel and right doorpost and must be welded or bolted to the roll bar.
- 4.4 – One driver's door bar a minimum of 1-3/4" x 0.095" is MANDATORY or a minimum 8" x 1/4" door plate bolted with a minimum of 8 bolts or a 1" x 2" x 3/16" rub rail bolted with a minimum of 8 bolts. Bolts must be a minimum of 7/16" or 1/2" carriage bolts. Must be bolted tightly to the body with large washers included. Rub rails are also allowed on the passenger side doors.

## **5 – Roll Cage**

- 5.1 – Roll cage allowed and recommended.
- 5.2 – Two horizontal bars to protect the radiator are allowed. Maximum 2" tubing with two vertical supports. Bars must be under the hood or bumper. No bracing forward or back. No other bars are allowed forward of the front firewall.

## **6 – Windshield**

- 6.1 – Stock windshield can remain or it may be replaced with Lexan or a heavy gauge 1" steel mesh.
- 6.2 – With minimum of one 1" solid bar or minimum 1 1/4" x 0.095" tubing or 1 1/2" x 3/16" flat bar in the center of the windshield area.

## **7 – Battery**

- 7.1 – Can be moved and must be securely mounted to floor.
- 7.2 – Must be in a spill proof container.

## **8 – Fuel Tank**

- 8.1 – Original gas tank in original position under rear floor allowed. Must have secure straps and no leaks.
- 8.2 – Gas tank that is under trunk floor must be replaced with a steel fuel tank with a maximum capacity of eight gallons or racing fuel cell.
  - 8.2.1 – Must be placed in trunk.
  - 8.2.2 – Must be securely mounted with a minimum of two straps 1" x 1/8" bolted to trunk floor.
- 8.3 – No stock tanks in trunk.
- 8.4 – Rubber fuel line cannot run inside the car interior.
- 8.5 – No leaking fuel lines.
- 8.6 – Steel fuel filters only (*no plastic filters*).

## **9 – Brakes**

- 9.1 – Brakes must be working.
- 9.2 – No brake shut offs.

## **10 – Firewall**

- 10.1 – Cars must have a minimum 22-gauge steel rear firewall if gas tank is in the trunk area.
- 10.2 – Holes in front firewall must be patched with minimum 22-gauge steel.

## **11 – Wheels and Tires**

- 11.1 – Any steel or aluminum rims, within 1" of stock offset, maximum 7" measured bead to bead. 55; 60; 65; 70; 75 or 80 series DOT Street tires only.
- 11.2 – Ice Tires and snow tires allowed.
- 11.3 – Temporary spares allowed.
- 11.4 – Inner tubes allowed.
- 11.5 – No solid tires.
- 11.6 – No racing tires (besides used Hoosiers from sportsman cars).
- 11.7 – No tire shaving, grooving or sipping.
- 11.8 – Hubcaps and wheel weights must be removed.

## **12 – Suspension**

- 12.1 – Springs, shocks, steering, and bushings must be stock or stock replacement.
- 12.2 – No spring spacers.
- 12.3 – All suspension must be stock with no modifications or racing parts.

## **13 – Cooling System**

- 13.1 – No anti-freeze. WATER ONLY.
- 13.2 – Cooling system must be flushed with water.
- 13.3 – Any automobile radiator allowed.
- 13.4 – Any electric fan allowed.

## **14 – Engine**

- 14.1 – Must be stock.
- 14.2 – No modifications.
- 14.3 – No performance upgrades.
- 14.4 – 4 valves per cylinder allowed.
- 14.5 – No turbos, superchargers or rotary engines.
- 14.6 – Must have air filter element.
- 14.7 – Aftermarket performance filters and cone type filters allowed.

## **15 – Transmission**

- 15.1 – Stock transmission only; manual or automatic.

## **16 – Differentials**

- 16.1 – Open only for front wheel drive cars.
- 16.2 – Locked rear ends allowed on rear wheel drive cars.
- 16.3 – Factory limited slip allowed.
- 16.4 – Factory positive traction differentials allowed.

## **17 – Technical Inspection:**

- 17.1 – Thunder Valley Speedway reserves the right to perform technical inspection on any car at any time.
- 17.3 – Cars to be inspected at post-race time MUST proceed immediately to the Tech Inspection area after exiting the race track
- 17.4 – No team members are allowed to touch or remove any part of the race car without receiving prior approval of the Head Tech Official.
- 17.5 – Cars (with Driver) must enter the tech area as instructed by inspectors. Drivers must move their racecar onto scales or be assisted by track officials only if needed.
- 17.6 – Access in the tech area will be restricted to the car driver and two crew members.
- 17.7 – The team is responsible for preparing only the area(s) of the race car for inspection as requested by the HEAD TECH OFFICIAL in a timely manner.
- 17.8 – Any participant (team) who refuses to allow tech officials to inspect their car at any time or follow inspection directions and procedures will be subject to the following:
  - Immediate disqualification from the event.
  - Loss of points and prize money for that event.
  - Credited with a feature win for handicapping purposes (*if applicable*).
- 17.9 – Participants found to be illegal and disqualified during technical inspection shall be subject to the following:

- Disqualification from the event.
- Loss of points and prize money for that event.
- Credited with a feature win for handicapping purposes (*if applicable*).
- If found illegal on a double feature night, the car will be declared illegal for both races and will not receive points or prize money for either.

17.10 – A second infraction for deemed illegal or technical issues will result in the following:

- Disqualification from the event.
- Loss of points and prize money for that event.
- TOTAL LOSS of ALL ACCUMULATED POINTS to DATE. (*Attendance record will not be affected for year-end perfect attendance award*)

If you have any questions regarding rules please contact Brad Melendy at (709) 424-1467 on weekdays from 9AM – 10PM.