

## BOMBER RULES

### COMPETING MODELS – ELIGIBILITY

- A. Any 1950 or newer, coupe, sedan or station wagon. No convertibles, vans or jeeps.
- B. Minimum stock wheelbase allowed for cars and trucks will be 112". Lengthening or shortening stock wheelbases is not allowed on cars. Trucks chassis's may be shortened to 116".
- C. The following cars are NOT ALLOWED under any circumstances: 1978-1987 Monte Carlos or any G-Body including Malibu, Camaro/Firebird, Nova/Ventura/Apollo/Omega, Dart/Duster, Mustangs, etc.
- D. Strictly full-sized, economy-based class, no performance or mid-size cars of any type will be allowed.
- E. All installations must be tech approved
- F. All casting numbers and part numbers must remain intact and unaltered.
- G. Pickup trucks must meet all the same rules as the cars in sections 1-22, unless specified within the individual section.

### BODIES

- A. Complete bumper-to-bumper steel body must be used. Replacement body panels may be fabricated using sheet metal, no aluminum except hoods.
- B. The stock floor pan location must be maintained between the frame rails and have a full rear firewall. Rear firewall and floorpan may be repaired and constructed of sheet metal. Passenger side floorboard cannot be eliminated.
- C. Car and truck frames must be strictly stock. No frame cutting or shortening allowed except trucks shortening behind cab only to a minimum of 116" wheelbase and rear rails replacement behind the rear spring pockets.
- D. Hood must be kept in place at all times, minimum 2 hood pins or fasteners are mandatory. Hood bracing may be removed.
- E. Body sheet metal must be kept in place at all times.
- F. All lights, trim and upholstery must be removed.
- G. All doors must be welded or riveted shut with filler sheet metal or small pieces of metal plate/strap.

H. Inner panel of doors may be removed.

I. The following may NOT be removed: stock front firewall. Rust may be repaired with patch panels (minimum 20 gauge steel).

J. Fenders, doors, hood, trunk may be replaced with steel sheet metal. Roof must be stock, bracing may be removed.

K. Spoilers are allowed, not to exceed 6 inches in height. No aero improving wings of any type.

L. Truck beds may have all inner bracing and flat area of the bed removed. Beds on trucks, el caminos, rancheros, etc, may be covered with sheet metal. No fiberglass or plastic bed covers or canopies.

M. Body swaps are allowed onto other chassis's that meet all the frame rules.

N. Pedals must remain in stock location on the firewall. No fabricated mounts that allow set back to allow driver placement and seats moved towards the rear of the car.

#### FRAMES

A. Stock frames only.

B. Minimum clearance of 6" is required, measured under any point of the frame rail, with driver in car.

C. No alterations or customizing of the chassis, other than for mounting the roll cage. Rusted frames may be repaired or patched. Rear frame rails behind the axle may be replaced with tubing.

D. Minimum 6-point roll cage must be attached securely and safely to frame. Minimum of 1-1/2" diameter, .095 wall tubing required. Minimum of 3 drivers door bars and 2 passenger door bars. Drivers door bars must be plated with minimum of 1/8 steel plate to protect the driver.

E. Trucks may have outriggers welded to the frame rails for attaching the cage to provide sufficient mounting clearance.

#### SUSPENSION

A. Racing springs allowed in stock location for the make and model of car. Springs may be cut.

B. Weight jacks are not allowed. Non-adjustable spring spacers allowed.

C. Cutting the frame for clearance is not allowed

D. Shocks must be OEM for make and model, in stock location, with factory stamp visible. No racing shocks.

- E. Suspension mounting points and spring cups cannot be altered.
- F. Sway bars are allowed, maximum 1.5" in diameter.

#### STEERING COMPONENTS

- A. Stock steering only. No aftermarket parts designed to lower, widen, correct bump steer, or geometry.
- B. No Steering quickeners allowed.

#### ENGINES

- A. Engines must remain stock except for intakes and camshafts. All engines are subject to tech approval.
- B. Engine blocks must be a steel V-8 type or V-6 type and be stock factory production.
- C. Aluminum intake manifolds allowed with prior tech approval. No high-rise manifolds.
- D. Maximum of 1" carb spacers allowed. 2-and-4 barrel carb adapters count towards the total of 1" spacing.
- D. All internal engine parts must remain OEM specifications as to size, shape, weight and finish.
- E. Any procedure associated with a common rebuild will be allowed.
- F. Engine and transmission mounts may be solid. Engine swaps into other manufacturer chassis's must have first spark plugs no farther back than in line with the front suspension ball joints.
- G. Cylinder heads must be stock factory productions. No roller rockers.
- H. Valves must be stock factory production specifications. No valve jobs, no porting or polishing.
- I. Racing camshafts allowed. Roller cams and lifters allowed. No roller rockers.
- J. Engine and transmission swaps allowed between manufacturers.

#### ENGINE COOLING SYSTEM

- A. Stock fans or electric fans allowed.
- B. Water overflow catch can unit required.
- C. No anti-freeze or other coolant in radiators. Water only.

#### ENGINE EXHAUST SYSTEM

- A. Exhaust must extend behind driver and cannot pass through the drivers compartment.
- B. Maximum exhaust size 2 1/2".

- C. Stock cast iron exhaust manifolds required with 4 barrel carbs.
- D. Headers allowed with 2 barrel carbs.

#### TRANSMISSION

- A. All parts to remain stock.
- B. Automatic transmissions must have OEM torque converter.
- C. Manual valve bodies are allowed.
- D. Driveshaft must be painted white and have at least one safety hoop.

#### 10.BRAKES

- A. Stock four-wheel brakes required in good working order.
- B. All brakes must function. Brake pads and calipers may not be modified.
- C. No bias adjustors allowed.

#### TIRES AND WHEELS

- A. DOT street-type tire except right front. No performance, autocross, racing tires or slicks allowed on the left front, and both rears.
- B. 235mm or 8" wide maximum DOT tires on left side. 245mm maximum width allowed on the right rear through the end of the 2022 season. Factory size printed on the sidewalls may not be removed.
- C. Right front may be Alaska Raceway Park approved thunderstock racing slick. Takeoffs and new purchases allowed.
- D. Maximum 8" wide steel wheel only. 15" and 16" are the only allowed wheel diameters. Steel racing wheels are allowed.
- E. No aluminum, magnesium or similar type wheels.
- F. No bleeder valves permitted.
- G. Oversize studs and 1" lug nuts recommended.

#### 12.ELECTRICAL SYSTEM

- A. Battery may be located behind the driver and securely fastened.
- B. Mandatory master switch must be clearly labeled and located within reach of the driver and track officials.
- C. All cars must have a battery.
- D. All cars will have starters in good working order with switches clearly marked, and accessible to the driver while strapped in, as well as from outside the car. All cars must be able to start on their own power.
- E. Stock ignition only. No MSD type aftermarket performance parts allowed, including but not limited to, coil, module, cap, rotor, etc.

F. Stock HEI replacement distributors are allowed in all engine makes and models.

### 13.FUEL SYSTEM

A. Fuel cell must be located in the trunk area with a firewall separating it from the driver. Station wagons must have the fuel cell area sealed off with sheet metal from the driver in a similar manner to a sedan.

B. No gaps or holes allowed in rear firewall.

C. The bottom of the fuel cell may not be lower than the bottom of the frame rails.

### 14.CARBURETOR AND FUEL INJECTION

A. No dual line double pumpers.

B. One 2-barrel or one 4-barrel carburetor. EFI allowed for stock make and model.

C. Stock mechanical fuel pump or aftermarket fuel pump allowed for carbureted engines. Vehicles with electric fuel pumps must have low-oil pressure shutoff installed and functioning.

D. Inline electronic fuel pump and electronic fuel injection permitted in stock configuration.

E. Carburetor swaps allowed on engines and cars that came with factory EFI or TBI. The same rules for intake manifolds, fuel pumps and carburetors must be followed for all EFI/TBI to carburetor swaps.

F. Two throttle return springs MANDATORY on all carburetors, mounted on engine.

G. Dry paper filters only. Maximum air filter element height is 3 inches. Top and bottom to be same diameter, no flow diverters of any type allowed.

H. No other modifications allowed to any carburetor or fuel injection system allowed.

I. No controlled vacuum leaks allowed.

### 15.FUEL

A. Pump fuel only. Maximum 90 octane. Avgas or racing fuel are not allowed.

#### REAR END

A. Differential may be open, welded, or limited-slip allowed.

B. Ford 9" swaps are allowed in all makes and models using the factory stock mounting points from the donor car, including the control arms or leaf springs

C. Trucks must be rear-wheel drive only. 4wd is not allowed.

## 17. SEATS AND SAFETY EQUIPMENT

- A. Aluminum racing seat is required. Full containment seat is recommended. No plastic or fiberglass seats.
- B. Seat must be securely bolted with a grade 8 hardware, minimum of 3/8" bolts. Washers must be used on both sides.
- C. 5-point, SFI rated racing harness with quick release is mandatory. 3" wide lap and shoulder belts required. All belts shall be attached to roll cage using minimum 3/8" grade 8 hardware or looped around roll cage.
- D. Safety harnesses/seat belts may be no more than 3 years old. Date must be legible on the belts.
- E. Helmet must be closed-face, meet Snell 2015 rated, bear proper identification, and have no signs of previous damage.
- F. SFI rated window net is required on the drivers side. Release must be at the top.
- G. Approved racing shoes and gloves and are mandatory.
- H. Current test date (2 pound minimum) fire extinguisher to be installed in the car within the drivers reach while strapped in. Steel mounts only, no plastic.

## 18. BUMPERS

- A. Stock bumpers or tubular are required. Interchange is allowed, the bumper width must match the car. No sharp edges
- B. Stock bumpers may have factory backing replaced with tubing.

## 19. WEIGHTS

- A. 112" minimum wheel base must be 3000 pounds with maximum 52% left side weight.
- B. Ballast must be painted white and securely bolted or welded to the chassis.

## 20. WINDOWS

- A. Stock windshields and windows must be removed
- B. Minimum of 1/8" thick Lexan or steel wire mesh are required to cover the windshield area in front of the driver.
- C. Back window and all other glass must be removed.
- D. No mirrors outside the car. All mirrors subject to tech approval.

## 21. APPEARANCE AND IDENTIFICATION

- A. All cars will display a 1-or-2-digit number.
- B. Numbers will be a minimum of 18" on the roof and both door panels. Numbers on the roof are to face toward scoring tower (flag stand).

## 22. COMMUNICATION

- A. A. The use of two-way radio for communication with a spotter and/or pit crew member is not allowed.
- B. B. Raceceivers are required
- C. C. Transponders required for 2022 season and beyond.

#### RACE PROGRAM

- A. Drivers will be warned after causing one caution. They will be black-flagged for causing more than one caution in a single race (heat or feature).
- B. Feature winners from previous race will start at the tail end of the feature lineup regardless of qualifying position.

Rules current as of November, 2020