



2009 4 Cylinder Bomber Rules

If these rules do not say you can do it then don't do it! Be sure to check the general rules. All interpretations by the track are final. You are responsible to know the track's position on all rules. **IGNORANCE IS NO EXCUSE!**

Car:

1. Any compact or subcompact car with factory steel top and body. Front or rear wheel drive okay.
2. Passenger cars, station wagons or pickups only. No sports cars or vans.
3. Maximum stock factory wheelbase of 103" as factory listed for year make and model.
4. Car must be available for purchase in USA.

Car Weight:

1. Minimum weight with original driver for Chevette, Volkswagen, and Escort is 2200 lbs. NO TOLERANCE!
2. Minimum weight with original driver for all others is 2400 lbs. NO TOLERANCE!
3. Any car with more than two (2) valves per cylinder must be approved by tech and weigh minimum of 2500 lbs. with original driver. NO TOLERANCE!
4. Front wheel drive cars may not have more than 58% front weight at all times. NO TOLERANCE!
5. 55% maximum left side weight for all rear wheel drive cars.
6. Weight may be added to any single competitor for the fairness of competition at track discretion. (I.E. visiting competitor from another race track or 3 or more wins.)
7. Penalty weight for multiple wins will be lifted at the start of the following year.
8. All lead or ballast must be painted white with the car number on it and attached with 1 1/2 " bolt per 50 lbs.

Body:

1. Complete factory stock body for year make and model.
2. No modifications or alterations of any kind except as outlined below.
3. May trim fenders and quarter panel skins only, leaving 4" of original material below the lowest point of the original door line and or top body line, and replace it with 20 gauge steel. All replacement body panels must remain stock appearing to include the contour of the body. NO SLAB SIDES. NO EXCEPTIONS!
4. Doors may be replaced with 20 gauge steel.
5. Removal of interior parts which can be removed with hand tools okay. All flammable interior parts must be removed.
6. Left and right doors may be gutted to install roll bars.
7. Window channels on doors may be removed.
8. Four door cars may remove center door posts for roll cage installation. All other parts must remain as placed by manufacturer in the original location.
9. Hood and trunk lid may be gutted and must close in stock position with hood pins and/or hinges.
10. No holes in hood.
11. Front inner fenders may be removed.
12. Fenders may be trimmed for tire clearance.
13. Complete stock floor pan and fire wall must be retained.
14. Trunk floor may be gutted between frame rails and 3" in front and in back of fuel cell for fuel cell installation.
15. Side window okay. Driver and passenger windows must remain open with the exception of the window net.
16. All cars must have clear windshield (Lexan strongly recommended) with 4" white numbers and class identification in the top right corner. No Plexiglas.
17. Stock factory brake and clutch pedal must be mounted in original factory stock location. Must use gas pedal with toe strap.
18. All stock unaltered body mounts and rubber must be retained.
19. May replace bumpers and radiator core support with maximum 1 3/4 OD .095 wall pipe. NO Sharp Edges!
20. Front and rear bumper covers okay.
21. No spoilers unless factory stock.
22. No side skirts.

Chassis and Suspension:

1. OEM suspension: Front and Rear.
2. No racing shocks or struts.
3. No cutting, heating, arching, or de-arching of the springs.
4. Trucks may use non-adjustable lowering blocks. Both blocks must be of same size and square cut in a manor that no pinion angle is gained.

Engine: Protest: \$600 (\$300 for Top and \$300 for Bottom)

1. 4-cylinder engines only. No rotary engines.
2. Engines must remain strictly stock as produced by manufacturer except as outlined below.



2009 4 Cylinder Bomber Rules

(2009 4 Cylinder Bomber Rules Continued)

Engine: (continued)

3. No high performance engine or parts of any kind.
4. No turbos.
5. No porting, polishing, painting or grinding of any internal engine parts.
6. May use fuel injection heads and adapt normal carburetor in a manner approved by Tech.
7. Any hydraulic non-roller camshaft okay.
8. Ford Pinto 2000 cc and Toyota may use mechanical camshaft.
9. All engines must maintain a minimum of 17" of vacuum at 1000 rpm's at all times.
10. Shimming of lifters okay.
11. Three (3) angle valve job okay. Final cut no greater than 75°.
12. Stainless Steel valve okay.
13. No back cut, tulip, neck down, stainless valves.
14. Bronze guides okay.
15. Maximum over bore allowed is .060.
16. Stock crankshaft with stock stroke +/- .010.
17. Stock unmodified Holley 2300 series Model #7448, 350 CFM 2 barrel carburetor only, or OEM carburetor or OEM fuel injection.
 - a. Choke plate may be removed.
 - b. Any jets.
 - c. Any power valve.
 - d. Any squirter.
18. Maximum carburetor adapter size 1.25" including gaskets.
19. No air boxes around carburetor.
20. No advancing or retarding of camshaft.
21. No cam adjusters or offset key ways.
22. Aftermarket water pump drive pulley and aluminum radiator okay.
23. Electric fans are okay.
24. Electric fuel okay if block does not permit use of mechanical fuel pump. Must have oil pressure safety switch.
25. Stock oil pan. Baffles may be installed. No crank scrapers.
26. Engine components must have been available from the manufacturer in that model year. Year of engine not interchangeable.
27. Engine must be in stock mounts as placed by manufacturer.
28. May chain or strap the torque side of engine only.

Ignition:

1. 12 volt battery fired ignition only.
2. OEM distributor or ignition.
3. No locking or altering of distributor.
4. No high performance ignition modules or coils.
5. Alternators okay.

Drive Train:

1. Rear end must be strictly stock for year, make and model of car. May be locked. No limited slip or lockers of any type.
2. Must have stock transmission for make and model of car and must have all working gears.
3. Stock clutch and flywheel assembly for year, make and model. No lightening of any kind.
4. Standard transmissions must have a scatter shield or protective shield approved by tech.

Brakes:

1. Stock factory OEM 4 wheel working brakes only.
2. No brake bias devices of any kind.

Exhaust:

1. OEM cast iron manifold only.
2. Exhaust pipe must exit pass the driver and no larger than 2 ½ inches all the way.
3. Exhaust may pass through passenger side door and must be sealed from driver's compartment with 22 gauge steel. Hole in floor pan may be no more than ½" larger than exhaust pipe.
4. Must have over the counter muffler. No shorty or racing muffler.



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(2009 4 Cylinder Bomber Rules Continued)

Fuel:

1. Maximum of 12 gallon fuel cell mandatory. Cutting the trunk for the fuel cell is permitted.
2. Fuel Cell must be 22 gauge steel can.
3. No fuel additives.

Tires and Wheels:

1. Track approved tires only
2. Steel racing or reinforced wheels not to exceed 8" wide.
3. Minimum 7/16" studs with 1" lug nuts on all four (4) wheels.
3. Any offset wheel but all four (4) must be the same.
4. No wheel spacers.
5. No recaps.

Safety:

1. The Citrus County Speedway officials may inspect any car and/or equipment at anytime for compliance. All cars must have initial safety inspection each season before they race.
2. All required safety equipment and apparel must be in use while the car is on the race track.
 - a. Racing helmet with min. Snell 95 rating. Neck brace recommended. Fire suit with sfi min. Rating of "I". No holes or torn fire suits allowed. Fire resistant gloves, shoes and socks must be worn at all times car is on track.
3. A minimum 4 point roll cage must be steel pipe or tubing, a minimum of 1 1/2" (1.50") outside diameter with minimum .095 inch wall thickness. No square tubing or galvanized pipe allowed. NO exceptions!! Roll bar padding required around driver.
4. An engine kill switch must be mounted in the window net area and easily accessible by the driver and from the outside of the car. The switch must be clearly marked "Ignition switch" and show on and off positions.
5. All cars must have a fire extinguisher (minimum 2 lbs.) securely mounted within easy reach of driver. The mounting must be in such a way that the driver can quickly remove it from its mount. Wrapping duct tape around the extinguisher or any other material that will prohibit that easy removal of the extinguisher is not acceptable.
6. A single, quick release, 4 point harness (minimum 3 inch belts) dated 2004 or newer is required in all vehicles. All belts and installation shall be approved by the safety officials. Sternum straps are okay. All required belts must be in use at any time the car is in motion on the track. Racing harness must be attached to roll cage.
7. Window nets are required on the driver's side of the car and must be securely mounted. Nets must latch at the top and be operational from inside and outside of the car. Drivers must be able to get out of either side of the car in case of emergency.
8. Aluminum racing seats mandatory.
9. Drive shaft must be painted white and include the car number. Drive shaft loop will be a 5" diameter steel loop, 1" wide and 1/4" thick. It must be securely mounted to the frame 12" from the front universal. Must have one on rear drive shaft.
10. Battery shall be secured to frame of car and must be encased. The Lead ballast must be painted with car number and secured with one 1/2 inch bolt per 50 lbs. It is your responsibility to make sure your ballast stays in you car for everyone's safety. Loose ballast on the track is not acceptable.
11. Throttle toe strap is mandatory. Linkage must have two (2) return springs.
12. Fuel Cells mandatory in all divisions:
 - a. Securely mounted behind driver and behind rear firewall. No rigid filler spouts shall pass through body. Fuel cell must be contained in an approved steel container. All fuel cells must have check valve in vent line.
 - b. Fuel cells must be a minimum of 8" off the ground and rear protection bar minimum 1 1/4" .095 bar, 2 straps minimum 1" width, surrounding the ENTIRE fuel cell. Fuel cells must be bolted. NO RIVETS – NO SHEET METAL SCREWS.
13. All cars must have a front and rear tow hook ups. We are not responsible for damage to your car.
14. All cars must have a clear windshield that the driver can be able to see through.
15. All cars must have a radiator over flow can. Water is the only acceptable coolant.
16. All standard transmissions must have a scatter shield or protective shield approved by tech

The track reserves the right to add weight at its discretion for the fairness of competition.

READ THE GENERAL RULES !!!!