

305 BOMBER RULES

** These rules may be amended at the official's discretion. **

No additions, alterations, or non-OEM type parts allowed unless specifically allowed in the rules.

1. **Models:** 1978 through 1986 GM cars only as follows:
Monte Carlo, Malibu, Cutlass, Gran Prix, LeMans and Regal.
2. **Bodies:** All body parts must be completely stock and may not be gutted. Solid body mounts allowed. Body repairs allowed on outer door and quarter panels from the bodyline down, with 18 gauge steel. No reinforcing of the body panels. No aluminum body parts. Doors must be chained or welded shut. A driver's doorplate is required. The doorplate must be a maximum of 12" tall by ¼" thick, and extend 6" ahead of and 6" behind the door seams. The doorplate must contour the body, and may be of more than one piece and welded together. The doorplate may be bolted or welded to the car. The front and rear may be welded the height of the doorplate. The top and bottom may be skip welded and have a total of 16" of bead. The doorplate may not be braced to the frame. The cloth interior must be removed. No interior metal may be removed. The rear seat must be removed. The front firewall must be complete and in stock position. The front wheel wells may be removed. Trimming of fenders must have prior approval of the tech officials. No altering or channeling of frame or body. All interior metal must be left intact, except where necessary for roll bar clearance. All holes in front and rear firewalls must be covered with sheet steel. No functional hood scoops.
3. **Bumpers:** Any metric mid-size bumpers may be used on any car. Bumpers may not be reinforced. Bumpers must be chained or welded to the frame to prevent them from falling off. Bumper straps are required and must be no larger than 12" long, 6" high and 1/8" thick.
4. **Glass:** The windshield must remain intact. The windshield may be replaced with a properly braced 1/8" thick Lexan windshield. (2 braces near center) All other glass windows must be removed. 1 mirror per car, any location. Interior: max 36 sq. in., single focal point. Exterior: 4" diameter round, single focal point, no convex or concave.
5. **Roll Cage:** A roll cage is not required, but is strongly recommended. The roll cage must be constructed of 1¾" roll cage tubing with a minimum wall thickness of .090". Tube ends must be welded to the car frame. No roll bar may extend in front of the gas pedal, or behind the rear axle. If the dash is removed, a 1 ¾", .090 thick pipe must be welded in from A-pillar to A-pillar. All welds must be made with an electric welder. Drivers door may be gutted to allow clearance for properly installed door bars.
6. **Engine:** Engines must be completely stock and in stock position. Maximum displacement is 305 CID plus .040 overbore. Bore and stroke must remain stock. Maximum compression ratio is 9.5 to 1. Stock rods and crankshaft. Oil pan inspection hole is required, must be located on the drivers side inline with the 2nd or 3rd rod journal or crankshaft, with a ¾" npt inspection hole in pan on opposite side of windage tray. Stock pistons only; no forged, domed or performance piston. Pistons must be at least .020" below top of deck at top-dead-center. Cylinder heads must be stock production 305 cast iron heads. No Vortec, FI, L-31 or high performance heads allowed. Stock GM unmodified cast iron intake manifold to accept a Rochester 2GC carburetor. Intake valve maximum head diameter is 1.85". Maximum exhaust valve head diameter is 1.5". Minimum valve stem diameter is 11/32". Minimum combustion chamber size is 56cc. Flat tappet hydraulic lifter cam only with a maximum lift of .420", measured at the valve. Hydraulic lifters only. Aftermarket valve covers, oil pan and breathers allowed. Air cleaner must be stock and in stock position and configuration. Air inlet extension may be removed. No ducting to air cleaner. Alternator and power steering pump must be in place with belts on. No engine part may have any material added or removed to change the performance of the part, or the engine as a whole.
7. **Electrical:** Stock 12-volt electrical system only. The battery must be securely mounted behind the driver's seat in an approved battery box. A clearly marked master kill switch must be located directly behind the driver, and easily accessible to the officials. OEM stock 12-volt ignition system only; no performance ignition coils or modules. No brake lights allowed.
8. **Cooling System:** Radiator may be aluminum, but it must have an integral transmission cooler. A fan shroud is required over the top ½ of the fan. A coolant overflow container with a minimum capacity of 1 gallon must be mounted in the engine compartment. Water only in the cooling system; NO ANTIFREEZE. No electric cooling fans. Aluminum pulleys are allowed.
9. **Exhaust:** Stock unmodified exhaust manifolds only for subject car. Exhaust must exit behind the driver. Dual exhaust is allowed, however, the 2 exhaust pipes may not be connected together in any way. Maximum pipe diameter is 2" OD. Exhaust must be sealed from the engine to the tail pipe. Decibel limit for each car is 100 dB, measured from the middle of the grandstand.

10. **Fuel System:** Carburetor must be a Rochester 2GC with a maximum of 500 cfm. No part of the carburetor may be modified. Choke shaft and choke butterfly must be in place. No truck carburetors. There must be 2 throttle return springs connected from 2 locations. Manufactured throttle linkage, with toe tip, is allowed with official's approval. Stock type fuel pump only. No electric fuel pumps. No fuel lines in the driver's compartment.
11. **Fuel Tank:** The stock gas tank must be removed. A fuel cell or marine tank must be securely mounted on or above the trunk floor, using steel straps, rods or bars. The tank must be mounted in the center of the trunk, left to right, and as far forward as feasible to be protected from rear end collisions. A fuel shut-off valve must be installed near the fuel tank, and be clearly marked 'ON' & 'OFF'. Refilling must be done by opening the trunk; quickfill doors are not allowed. No plastic fuel tanks. No home-made fuel tanks after the 2012 season. Maximum tank size is 8 gallons.
12. **Drive Line:** Automatic transmission only. The Powerglide transmission is not allowed. Must have OEM type working torque converter with a minimum diameter of 11". No lock-up type torque converters. Remote transmission cooler allowed; must be mounted on the right side of the firewall in the engine compartment. All forward and reverse gears must work. The driveshaft must be painted white and a 'U' hanger must be installed within 12" of the front U-joint. Stock unaltered open differential rear axle only. No locked or 'posi' differentials including alterations to make the differential lock at any time.
13. **Suspension:** All suspension components must remain completely and strictly stock for model and year of car. No special order, police, taxi or other performance suspension components. No bump-stop suspension systems. Stock front and rear suspension bumpers must be removed. No racing or rated springs allowed. Must be the same size left and right. Maximum front spring wire diameter is .750". Springs may be cut, but must have the same number of coils and be the same height side to side. OEM or replacement shocks must be in the original position and use the original mounts. No coil-over shocks or adjustable shocks. Retail price of shocks is \$40.00 or less, each. No suspension spacers or wedge setting devices. Maximum camber is 1 1/2". Stock type rubber suspension bushings only. Maximum sway bar diameter is 1 1/16". No rear sway bars. Urethane sway bar bushings are allowed in the link ends only.
14. **Steering:** All steering components must remain completely and strictly stock. The steering wheel center must be padded. Steering wheel may be removable.
15. **Brakes:** Brake system must remain completely stock. All 4 brakes must work. No brake bias adjusters allowed.
16. **Tires:** Hoosier spec tires will be phased in and may be purchased from Raceway Park or Elko Speedway. May run all 4 Hoosier spec tires or all 4 2011-legal tires as described below. (2011 legal tires will not be legal for 2013) Tire sizes allowed are: 205, 215, 225 & 235 width; 78, 75, or 70 series; 15" diameter. Tires must have an 'S' or 'T' rating. 225 & 235 width tires have a price limit of \$100.00. All other tire widths have a price limit of \$80.00. No performance tires. Tires must be available to the general public at normal retail outlets. (The 'internet' is considered a normal retail outlet.) Tires must be currently in production. No use of tire softener or altering of the tires in any way. Shaving is allowed. Tires that meet the above specifications at the beginning of the season, and later have a price increase or go out of production, will be legal for the entire season. Drivers must provide proof of purchase price when requested by the officials. (Keep a receipt or valid ad in your hauler!)
17. **Wheels:** Stock factory steel wheels or racing wheels with an offset of not less than 3" only. Maximum wheel width is 7". All 4 wheels must be 15" diameter. 1" lug nuts are required on all wheels. 5 lug nuts are required on all wheels.
18. **Weight and Ride Height:** No added weight or ballast allowed. Ground Clearance is 6", except for suspension components and exhaust system.
19. **Seat:** An aluminum racing seat is recommended. Seat belts must be used. A 5-point racing harness is recommended.
20. **Safety:** A driver's window net is required. A fully charged fire extinguisher, securely mounted, within the driver's reach, is required. See also General Rules for additional safety equipment requirements.

Amendments: