

Mini Bomber Rules 2026



Subject to change at any point
No tolerance will be given to
those who do not compete to the spirit of this class

BODY/CHASSIS

Any four-cylinder passenger car that came with seating capacity for at least 4 persons - sedan, coupe or hatchback/wagon ONLY. Max wheel base 107 inches. Rotary engines, turbo, supercharged, Quad 4 engines are not allowed. No 4 wheel drive/all wheel drive cars allowed and no trucks

Remove the carpet headliner, door panels, and all mirrors, except outside driver side mirrors and all seats except driver's seat. Remove head and tail light glass and all window glass except windshield. The factory dash is optional. If the dash is removed, it must be replaced with an aftermarket dash. Aftermarket nose is okay. All floor pans MUST be intact. NO GUTTING ALLOWED. Can gut hood and trunk framing but must have a hood and trunk. Can cut out trunk for fuel cell. MUST have a sealed firewall front and rear. Radiator must be mounted in stock location. Fuel cell must be in trunk and have a 20 gauge steel cover. Battery must be behind the driver in a sealed box. Windshield can be lexan or glass. All other glass must be removed. *There must be an open space at the top of the windshield for the class sponsor.

ROLLCAGE: Roll cages are required. Six (6) point roll cage of 1 3/4 " tube steel x .095 wall must be welded & secured to floor pan or frame. Must have 3 door bars on the driver's side and 2 bars on the passenger side, rear bars are allowed into the trunk area. Front hoop okay, but must keep all stock panels in place. Nerf bars recommended - must be attached to cage and no sharp edges. MUST have race padding on all bars that your hands and head can reach. MUST have a window net.

PUMP gas only! No racing fuel! No Tolerance. c. Water only allowed in the cooling system. Stop Leak allowed. NO ANTIFREEZE ALLOWED.

ENGINE HEAD:

MUST be stock OEM casting with stock valve size. Can be milled, cast-iron .080 aluminum .040 MAX. NO porting. NO polishing. NO deburring. NO adjustable timing gear. NO aluminum timing gear.

CAM

.510 lift max. Style per make and model. No relocating cam dowel NO rollers

LIFTER:

Hydraulic lifter per make. Solid lifter per make. Hydraulic lifters MUST de-pump full stroke. NO relocating cam dowel. NO rollers

BLOCKS:

MUST be stock OEM. Must match make and model (Civic to Civic) NO aluminum aftermarket. No V6. No S2000. Engine must be mounted in stock location and centerline

INTAKE MANIFOLD:

MUST be stock OEM. NO porting. NO polishing. NO deburring. Must be Stock Throttle body

EXHAUST MANIFOLD:

MUST be stock OEM or header NO greater than two and half inches (2.5") exit. NO porting. NO polishing.

ROTATING

Rods stock OEM rods. Aftermarket pistons ok. Stock OEM crank per engine.

OIL SYSTEM

Stock OEM oil system.

RADIATOR

MUST be in stock location and can be aluminum.

FUEL INJECTION

Must be stock OEM injector - no oversized injectors

ECU/ECM

OEM only. Programming/Chipping/Tuning allowed. (Fuel mapping, timing, delete sensors, rev limit, etc)

CARBURETOR

MUST be stock Autolite, Motorcraft, Holley 350/500 with choke horn and with part number in place. Fuel injection ok. NO RACING CARBURETORS- VDL, DORTON, WILLY, ETC. NO SCREW IN AIR BLEED. MUST BE TOOL LEGAL.

CARBURETOR SPACER

Adapter to Holley ok. NO CNC machined or custom machined spacer, one and one half inch (1 ½") MAX.

AIR FILTER: Can be aftermarket. MUST fit under the hood.

CLUTCH

Single disc OEM style, NO racing clutches. lightweight steel flywheel allowed. NO aluminum flywheels

TRANSMISSION: MUST be stock OEM.

REAR END: MUST be stock OEM per model. NO lockers. NO welded. NO posi traction. NO locked trans-axles.

DRIVELINE: MUST be stock steal. MUST have loop twelve inches (12") back from transmission.

BRAKES: Must have stock OEM brakes and all four (4) must work. NO brake bias adjuster. NO aluminum calipers.

WEIGHT

Single overhead cam; UNDER 1800cc

Weight: 2100 min

Left: 54% max

Rear: 44% max

Single overhead cam; OVER 1800cc to 2099cc

Weight: 2250 min

Left: 54% max

Rear: 44% max

Single overhead cam; 2100cc or more

Weight: 2400 min

Left: 54% max

Rear: 44% max

Dual overhead cam under 2000cc

Fuel Injection

Weight: 2400 min

Left: 54% max

Rear: 44% max

Dual overhead cam over 2000cc Maximum 2400 cc with overbore

Fuel Injection

Weight: 2600 min

Left: 54% max

Rear: 44% max

SHOCKS/SPRINGS

MUST be stock OEM steel style per make and model. NO adjustable shocks/struts. NO air shocks. NO adjustable shock/strut tower. NO adjustable plates. NO Coil overs, Racing springs are allowed, Spring Rubbers are allowed

RIDE HEIGHT

Five inch (5") minimum

SWAY BAR All Thread OK. Must have stock pivot points with stock hardware

CONTROL ARMS

MUST be steel. Can be adjustable

TRAILING ARM

MUST be stock OEM with stock mounting points.

CAMBER

MUST be no more than one and one quarter inch (1 ¼") measured from top of wheel.

WEIGHT JACK

NO weight jacks. Adjustable spring cups ok.

IGNITION

MUST be stock OEM per make and model. NO aftermarket, no crank triggers.

FUEL TANK

Fuel cell recommended. MUST be located in trunk and sealed off from driver. MUST be covered in twenty (20) gauge steel. Fuel line MUST be in conduit if located in driver's compartment. NO "G" cans. NO plastic.

FUEL PUMP

Mechanical or electric ok. If electric, it MUST be located in trunk.

WHEELS

Steel wheels only. Seven inch (7") wide maximum. Racing wheels recommended. NO aluminum. NO spacers.

TIRES: MUST be a 400 tread-wear or greater. MUST be no wider than 205 and no taller than 75 series. MUST be DOT approved. NO recaps. NO racing tires. NO softening.

TRANSPONDER

Location: Right rear frame rail; fifteen inches (15") behind center of rear-end

EXHAUST

Mufflers are mandatory, must be securely fastened and in working order. Loud mufflers will not be tolerated, 95 DB @ 100'.

Safety

A fully charged dry chemical or halon fire extinguisher must be mounted inside the car within reach of the driver. MUST have three inch (3") wide shoulder belt. ALL belts must be five (5) years or newer. MUST have two inch (2") sub belt. MUST have master electrical shut off. Drivers required to have SA Helmet; NO motorcycle helmets. Head and neck restraint required. Driver's suit must be clean with no visible holes. Racing gloves/shoes must be worn at all times. Holes around shifter must be covered. Seats must be aluminum. 2" belt okay with HANS.

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Additional bars may be required by Technical Director or Promoter after initial inspection for safety. Cars running electric fuel pumps MUST mount a clearly marked on/off switch within 6" of the drivers door or mounted on passenger seat bar. Driver must be able to reach the switch when securely fastened with seat belts. WWSO Technical Director must be able to reach the switch from standing outside the driver's window. A brightly painted, solid square of at least 4" square must surround the switch. Drivers required to have SA Helmet and fire resistant gloves. Safety Approved Racing seats required and must be securely mounted in an approved manner. Roll bar padding is required and must be around all bars within driver's reach. Five

point racing seat belts required and must be mounted acceptable to the WVSO Technical Director. Window net is required and must be mounted in an acceptable manner.

Fuel Tank: If a stock fuel tank is ahead of the rear axle, it can remain in place or a fuel cell may be put in. If the fuel tank is behind the rear axle it must be replaced by an approved Fuel Cell mounted in the trunk. A complete rear fire wall is required between the drivers compartment and the trunk if a fuel cell is installed.
mounted in the trunk. A complete rear fire wall is required between the drivers compartment and the trunk.

Battery must be relocated to behind the driver's seat, in a securely fastened, covered battery box mounted to the floor pan.

Technology

Other than transponders, race cars will not be permitted to carry any onboard computers, micro controlled processors, recording devices (except for Go-Pro type cameras), cell phones, electronic memory chips, or traction control devices. Digital readout gauges are ok.

Tech

We will have double file restarts w/ choose cone unless a caution happens within 5 laps to go or 3 caution w/o a lap complete. Top of windshield is reserved for Track sponsor logo – no other decals allowed on windshield. You will receive one Sponsor decal for free at the beginning of the season. There will be a \$15 replacement fee for each new one. If you don't run the Window decal you will not receive points or pay for that weeks event.

Any part or equipment found during an inspection or any other time, that does not meet applicable WVSO standards must be surrendered to WVSO Tech Officials at that time, and will not be returned. Failing to not give up the part or parts will result in a fine, and/or loss of points and/or suspension.

WVSO Officials reserve the right to make final decisions in the interpretation of any rules or race procedures at any time. No equipment will be considered as having been approved by reason of passing through inspection,
WVSO Officials recommend that you carefully study the WVSO rulebook in order to be familiar with all aspects of racing. If you are considering apart for modification or procedure not covered in these rules, contact WVSO Tech Official before proceeding with any purchases or modifications.

If you have any questions regarding the rules set forth, contact the WVSO Tech Official. In keeping with WVSO's commitment to maintaining proper balance in the competition arena, it may be necessary for WVSO to make rule changes and/or rule modifications from time to time. Such changes are designed to enhance close competition. WVSO's goal of a full starting field of various makes in each race, that are equally matched as possible is certainly in the best overall interest of the sport. EIRI: (Except in rare instances) Decisions of WVSO Officials are final and binding without exception.