

Big Car - Stock

Demolition Derby Car Rules

Any North American made car, 2 or 4 door hardtop car or station wagon may be used. All cars must remain stock. Cars must have a wheelbase of 105" or larger. No convertibles, AMC, Volvo, ambulances or hearses permitted.

General:

- All glass and plastic must be removed including windshields. Remove everything from the bottom of the doors and trunks. Remove backseats. Remove metal header panels. All hardware must be removed including headlights, taillights, door handles; mirrors, chrome, molding, fiber glass, any trim, hitches, etc.
- **ABSOLUTELY NO** added weight or metal to the car. No buffing, grinding or packing the frames/subframes, trunks, doors, bumpers or under the floor or anywhere else on the car
- Mufflers, convertors, gas tanks and exhaust systems must be removed
- Air condition pumps may remain only if required for drive belt routing and system emptied
- OEM body to frame mounting hardware permitted only
- No 2 piece drive shafts allowed, only use one piece draft shaft OEM style. If driver's car has a factory hanger bearing style, it will be allowed
- Anything not specifically mentioned in these rules, must remain stock
- Optional exhaust routing (e.g. may run stacks through hood)
- No frame modifications
- No bolts permitted through the frame/subframe of the car, i.e. gas tanks, battery boxes, trunks, hoods, except as noted in these rules
- No tilting or welding of seams on frame or anywhere
- Frames must be stock to year of the body

Tires:

- ONLY passenger ("P") or light truck ("LT") tires are permitted
- No studded tires
- All wheel weights must be removed
- No bolting of wheel wells
- Wheel well may be cut but no sharp edges
- Tires must be filled with air only (no double tires, no filling with rags, foam or any other substance except air)
- Valve stem protectors are permitted
- One 3/8" rod may be welded to either side of valve stem
- Tires not to be screwed to rim
- No bead protectors or exterior rim braces

Bumpers

- Bumpers must remain in stock position
- No welding or reinforcement
- Secure bumpers with chains
- May cut a hold in front and rear bumpers to run a chain through or wrap chain around bumper
- If bumper ends are cut, bend bumpers in if there are sharp edges

- You may weld on any stock bumper off of a car
- You may weld the stock bumper bracket for the car or the bumper to frame 4 inches from the back of bumper, single pass only

Doors:

- Doors to be bolted and chained shut
- Driver door must be painted white with ID number clearly painted on it
- Driver door bar is mandatory, passenger door bar is mandatory
- Driver door bar may be placed on the exterior or interior of the car, not both
- Driver door bar is approx. ¼ " C channel, 8" wide and may extend up to 6 inches on either side of door seams (No grader blades allowed)
- Driver door *may* have netting where glass was removed
- Driver door may be padded

Radiators:

- Radiators must remain stock and in original position and may contain water only (no coolant or antifreeze)

Transmission Cooler:

- Transmission cooler may be under the hood **or** in the driver's compartment
- Transmission cooler may be cooled with normal ice.

Hoods:

- Hoods must have 2 holds up to 12" x 12" on both sides of carburetor for fire purposes.
- To secure the hood may use maximum of 4 bolts (Maximum 1") and 2 chains single loop. The 2 front bolts may be used to secure the hood through frame in radiator cradle area
- No hood bolts can pass through or on the bumper
- Hoods must remain stock, in stock position and mounted to stock hinges
- Must have a hole to expose air breather – minimum 8" diameter
- Must have hoods open for inspection

Trunks:

- To secure the trunks may use maximum 4 bolts (Maximum 1") and 2 chains, single loop
- No bolts can pass through or on the bumper
- Maximum washer plate is 5 x 5 x ½"
- Must have 10 x 10" hole in trunk for inspection

Engine and Transmission:

- Motor changes permitted and must be secured within 2" of stock location
- Motor mounts may be chained or welded and factory size
- No truck rear ends allowed
- Differential gears may be welded to make posi (as a result both wheels turn simultaneously)
- Floor shifters allowed, headers allowed, gas pedals may be replaced.

Brakes:

- All cars must have working brakes. This will be checked before entering the track

Interior:

- All seats and trim must be removed from the interior of the car, except the driver's seat
- The driver's seat must be securely mounted to the floor
- All cars **must** run a cross bar (Minimum 6 inches from the floor) behind the driver's seat from one side of the car to the other using a maximum 4 inch tubing/pipe and fastened to plates on either side of the interior of the car maximum 6" x 6"
- May install a head post behind driver's seat mounted from the floor to the roof or crossbar to the roof
- Dash bar optional – bolted to steel metal/body only A pillar area, not bolted to frame
- May install a Roll Bar method (this is to prevent the roof from crushing in the event of a roll over). A roll bar is not intended to strengthen the car but to enforce the drivers head area in the event that the car rolls over.
- Roll Bar – maximum 4 inch box metal tubing/piping to be fastened to crossbar – to create box from behind driver up over exterior of the car and to connect to the interior passenger side cross bar or may be in the interior of the car from behind driver fastened to the crossbar up to the interior roof of the car across the roof, down to the crossbar on the passenger side of the car.
- Interior Roll Bar - 4 inch (max) tubing from Crossbar behind driver's seat, to the roof (not attached to the roof) across the roof of the car, angled down towards the crossbar and attached to the crossbar
- Exterior Roll Bar – same as interior except the roll bar goes over the roof of the car, not fastened to the roof, and fastened the same way to the crossbar

Windshields:

- The windshield must be removed and in front of the driver's seat area must securely fasten metal mesh or 3 bars for the driver's protection

Batteries:

- May use 24 volt set up (maximum 2 batteries)
- Batteries must be in a wooden or double strapped box on passenger seat/floor area securely mounted to the floor and covered with a splash guard
- Must have on/off switch

Gas Tanks:

- Original gas tanks must be removed from the car
- Use a metal boat tank/metal fuel cell (no jerry cans) securely mounted in the rear seat area and may be attached to rear cross bar
- Use only gas lines made for gasoline
- Protect rubber fuel lines with a piece of heater hose when it passes through the floor or fire wall
- Electrical fuel pumps must have an on/off switch clearly marked within driver's reach

Suspension:

- Suspensions parts cannot be modified, including tie rod ends and ball joints except bolting of upper control arms down to frame to maximize ride height on certain makes of cars
- Shock overload must be cut
- No adding reinforcements
- Rear end coil springs can be chained to the differential, not to body in anyway
- OEM leaf springs clamps can be used, maximum 2 per side
- No hose clamps or muffler clamps allowed on leaf springs
- No truck leaf springs allowed
- No coil leaf conversions permitted
- No bolting to the frame

Frames:

- There is NO welding permitted on the frame
- No bolts can go through the frame with the exception of pinning upper control arm down to maximize ride height on certain makes and models of cars
- Must be stock to year of body
- No tilting or welding of seams on frame
- No frame modifications
- Body mounts and spacers to remain stock and in place. If they are broken or rusted out, a single piece wire may be substituted. No body bolt changing allowed. You may replace two rad cradle mounts with two 5/9 " threaded rod with eight 3 inch washers and 4 nuts. Bottom nut and washer must be inside frame and may extend through hood. No welding permitted to mount this rod
- Absolutely, no painting of frames

Welding:

- There is NO welding permitted on the car
- The *only* exception is driver may choose to weld motor mounts and differentials to make posi

Painting:

- Driver's door must be painted white
- Driver's number must be clearly painted on each door at least 12 inches in height
- Driver's ID number on the doors must be in good taste and family show friendly
- No white cars allowed
- No foul language or offensive words will be allowed on the cars

NOTE – If you do anything to your car that the judges will deem unnecessary and which result in giving you an unfair advantage to your car over other competing drivers, it will not be permitted. Simple!

If the rules don't say you can do something to your car, then don't do it

Judges' decisions are final and are based on drivers' safety as well as making sure that one car doesn't have an unfair advantage over other competing cars