

# Compact Car Stock Demolition Derby – Vehicle Preparation

Any hardtop passenger car with a factory wheelbase of 106" or less and with a maximum of 6 cylinders can be entered.

## General:

- All glass and plastic must be removed including windshields. Remove everything from the bottom of the doors and trunks. 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 drive 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 bolts permitted through the frame/subframe of the car, i.e. gas tanks, battery boxes, trunks, hoods, etc.
- No excessive mud, undercoating, fresh paint etc will be allowed underneath vehicles or on the frame/chassis
- All hoods must be open or removed for inspection
- All passenger restraint airbags must be removed from vehicles.
- All vehicles may have a roof sign of minimum of 18" x 18" (maximum 24" x 24") with the car number clearly displayed on the sign. Sign must be securely mounted on the center of the roof. Maximum metal thickness of 11 gauge (.125") & Mounted vertically. Example \_^\_  
Purpose of the roof sign is to identify drivers.

## Tires:

- Any rubber tire – driver's choice.
- All wheel weights must be removed
- No bolting of wheel wells
- Wheel well may be cut but no sharp edges
- Valve stem protectors are allowed
- Drivers may double the rubber or stuff tires

## Bumpers:

- Front bumper swaps are permitted
- Rear bumper remains stock or rear bumper may be removed
- Alternatively, instead of a bumper, drivers may choose to use a tubing 5 x 5 and ¼ inch tick. Tubing can have no added metal, shaping or welding other than to attach it to the vehicle frame. Ends must be open and cut off square
- To secure the bumper or tubing to the front of the car may weld bumper to frame up to a maximum of 6 inches of weld per frame rail
- Secure bumper with chains - optional
- May cut a hole in front and rear bumpers to run a chain through or wrap around bumper

- If bumper ends are cut, bend bumpers in if there are sharp edges
- When fastening the bumper to the car, must use bumper brackets original to the car or may use one of 4" x 6" by 3/8 thick plate per frame rail
- Driver's may use only one way of fastening the bumpers – either factory bracket or plate.
- No stuffing of frames (i.e. no stuffing shocks in frames)
- Bumpers must not be wider than the exterior wall of the tires.
- The outside edge of the bumper must not exceed 12 inches from the body of the car

### **Doors:**

- Doors must be bolted and/or chained shut using a maximum of 4 points using combination of chains, wires, threaded rod (1 inch max diameter) or bolts (1 inch max diameter). Driver's may weld up to a maximum of four 4 inch square plates per door in place of bolts and chains but NOT in addition to bolts and chains.
- Driver door must be painted white with ID number clearly painted on it
- Driver door bar is **mandatory**, passenger door bar is optional
- Driver door bar is approx. 1/4 " 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
- Cars may run chains from the roof to the doors, where the door pillar would be on the driver's and passenger's side

### **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.
- Cooler must be mounted securely in back seat area

### **Hoods:**

- Hoods must have 2 holes up to 12" x 12" on both sides of carburetor for fire purposes or one 1/6" diameter hole in the hood. May bypass the radiator
- To secure the hood may use maximum 6 bolts (Maximum 1") and chains (single loop) or a combination of chains, bolts or threaded rod
- The two bolts at the rad support may go into the frame
- 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
- May use back to back angle four locations, 2"x2" by 1/4" thick and 4 inches long to hold the hood down

### **Trunks:**

- To secure the trunks may use maximum 4 bolts (Maximum 1") and 2 chains, single loop
- No wrapping of bumper shocks

- No bolts can pass through or on the bumper
- Maximum washer plate is 5 x 5 x 1/2"
- Trunks must have a 16 " minimum diameter inspection hole, no welding in trunk or on trunk lid
- If trunks don't have an inspection hole then 3/8 inch holes will be drilled in frame rails

### **Engine and Transmission:**

- Motor must remain in stock location
- Motor mounts may be chained or welded. If welding, only to engine cross-member, no welding on main frame. No engine or transmission protectors allowed.
- Drivers may cut out the firewall for distributor clearance
- Differentials may be welded to make posi

### **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 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 maximum 6" x 6"
- May install a head post behind driver's seat mounted from floor to roof
- Dash bar optional – bolted to steel metal/body only A pillar area, not bolted to frame

### **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
- Must have at least one bar or chain (2 maximum) in windshield area opening from cowl only (not hood) to roof for driver's safety to prevent hood from entering driver area.
- No rear window bars

### **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 (no jerry cans) securely mounted in the rear seat area
- 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
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**Suspension:**

- Suspensions cannot be modified, including tie rod ends and ball joints
- 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
- Suspension much remain stock and in working order

**Welding:**

- There is **NO WELDING** permitted on the car except:
  - o driver may choose to weld motor mounts and differentials to make posi
  - o weld bumper to frame maximum 6 inches per frame rail
  - o Interior safety cage – see notes on how
  - o Exterior cage – may weld rollover bars to 4 pt cage – not floor or the frame.

**Interior Safety cages:**

Drivers may weld 2 horizontal bars in the interior of the vehicle, one behind the rear of the driver's seat and one bar along the firewall where the dash used to be. The bars may not be larger than 4 inch x 4 inch. Bars may be fastened to the interior sheet metal of the car by bolts or welding.

Front and rear bars which go across the width of the car, may have a connecting bar on both driver and passenger ends to seams (the door posts) This will create a box (or 4 point cage) of the interior of the car in which the driver will be sitting in - no down bars to the floor

**Exterior Halo/Rollover cages:**

Rollover bars are permitted and may be bolted or welded to 4 point cage, do not fasten rollover cage to roof or vehicle pillars

Roof sign cannot contact the halo/rollover bar

**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
- Driver's number must be clearly displayed and mounted on the roof of the car
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If the rules don't say you **can** do something to your car, that means you **can't**

**Interpretation – the rules do not say that you cannot attach spikes to the exterior of the car, so DON'T DO IT! - There are not any grey areas.**

Telling our techs that “the rules don’t say that I can’t do it...” will not be an acceptable answer. If you car does not conform to the rules, you will not drive.

*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*

Any questions with respect to car preparation send text to (204) 226-0979.