

Demolition Derby
Car Preparation

- 1) All glass must be removed from the vehicles. This includes plastic ornaments and all lights and bulbs. Outside mirrors are not allowed. Inside mirrors may stay provided it is taped. Cars must be cleaned of loose objects and glass. OPTION: The windshield may be left in.
- 2) Cars must have flammable upholstery removed except front seat and front door panels. Driver and co-pilot doors should be padded in the inside as well.
- 3) All doors must be securely fastened shut by means of chains and a bolt, or by metal clamps. Minimum chain size – 3/16” diameter.
- 4) Driver and co-pilot’s doors must be reinforced.
 - a. Cement poured in the door can be used and is perhaps the easiest; the door must be at least half-full. Mix with sawdust or other light material instead of rocks to avoid heaviness.
 - b. If steel bars are used for the door braces, they must be channel iron. Minimum thickness – 3/16” thick and must be a minimum of 6” wide. Corners should be rounded at both ends. Bars must be mounted in horizontal positions only, and must be bolted with a minimum of 3 3/4” bolts or 4 5/8” bolts. Note: when bolts are mid-door, concrete is recommended. Grader blades may be used as a secondary brace only along with concrete or channel. They will not be allowed on their own. Bolting is preferred and is the strongest. Bars cannot extend beyond 6” of the front doors.
 - c. The passenger door must be reinforced the same as the driver’s door if there is a co-pilot on board.
- 5) Two doors and four door hardtops must have a brace behind the front seat going from the window ledge on the drivers’ side frame to the frame on the opposite side of the car. The passenger door must be braced the same way.
- 6) Body, chassis, and suspension must be stock, except for the fender wells. They may be radius to tire height only.
- 7) No trailer hitches or braces allowed.
- 8) No reinforcing is permitted of the wheel rim, frame, bumpers, radiator etc.
- 9) Motor and transmission mounts may be strengthened.

- 10) Any motor and transmission may be used provided it is of standard automotive design. Rear ends may be welded or "locked".
- 11) Gas tanks must be removed.
- 12) Cooling systems – All cars must use standard cooling systems. No oil allowed in water. No expansion tanks or extra long hoses allowed. Radiators and/or fans can be removed if desired. No substitutes.
- 13) Hoods, doors, and trunks must be securely fastened.
 - a. All cars must have stock hoods. Front side hinged hoods must be securely fastened in such a manner they will not fly open/off in a collision.
 - b. Hoods must be chained down. Hoods may be locked during the day, but not while on the field. Chains must be joined by a strong wire or loose nut and bolt that will be able to be removed by hands in the case of fire/emergency.
 - c. Doors, trunks, hoods – must be secured shut with maximum 1" link chain or 3/4" bolts. Hood and trunk may be secured in only 8 points. The rear edge of the hood must be restrained from moving backwards by a steel restraining bar or chain. This bar or chain must extend over the wiper sill area, cover the windshield opening and bolt through to the centre of the roof. The bar must be a minimum 2" wide, 1/4" steel flat bar. It must be bolted through the rear of the hood or through or through the top of the steel vent area between the hood and the windshield opening. Trunk doors may be welded, each weld no longer than 8". Welds on the trunk seam will be counted as 1 fasten point per weld.
- 14) Electrical System.
 - a. Battery must be relocated to the passenger side floor of the vehicle or behind the front seats: it must be totally enclosed in a box constructed of minimum 1/8" steel, secured to the floor with bolts, nuts and a minimum of 2" washers.
 - b. The battery box lid must be made of steel or a minimum of 1/2" plywood, and must be insulated to prevent short-circuiting.
 - c. Stock ignition switches must be replaced with ON/OFF switch and a START switch that are clearly labelled.
 - d. All wiring must be insulated by wrapping a piece of rubber around where it passes through the firewall (i.e. radiator hose or heater hose). Wiring may not pass through the same hose as the fuel line, or be attached to the fuel line. All wiring must be

secured to the car. Positive and negative cables must be insulated from each other.

e. A maximum 24-volt starting system is allowed.

15) Air cleaner compulsory on all and must be securely mounted. No tin cans or small chrome accessory type permitted.

16) Fuel System.

a. A custom built derby fuel tank constructed of minimum 1/8" thick steel must be securely fastened into the rear seat area of the front of the trunk of the vehicle using a minimum 2" washer.

b. The tank and cap must not leak if inverted.

c. The fuel fitting and vent must be on top of the tank and the vent must have a check valve or pigtail plumbed through the floor of the car. A large drain hole must be cut in the floor directly beneath the tank.

d. The fuel line must pass through the passenger compartment and must be made of metal or fireproof rubber. It is recommended the fuel line pass through a garden hose the length of the passenger compartment. The fuel line must be protected with floor mats or similar material through the firewall. Any standard consumer grade of pump gasoline may be used.

17) Fire Access: A hole must be cut in each side of the hood to expose carburetor fires. The holes must be a minimum of 8" in diameter.

18) Distributors may be protected with one piece of maximum 1/2" flat plate. The plate must not be any more than 1" larger than the distributor cap on the sides or the top.

19) Any type of fuel pump is permitted.

20) The driver and co-pilot seats and seatbelts must be securely anchored.

21) Horns must be disconnected or removed.

22) If the frame or cross-members are cracked, they may be repaired with the same type of material. The new material cannot extend more than 6" on each side of the fracture.

23) Cars must be equipped with working brakes.

24) All cars must have their competition number on both sides of the vehicle and upright on the roof. The front door should be used. If the front door has a brace, use the rear door or quarter panel. The numbers must be 24 X 24 high and 1" to 1 1/2" thick. The numbers must be clear. This rule is important and must be adhered to in order to pass inspection.

- 25) All contestants must supply a bristle board flash card with their number on it. It should measure 3ft x 3ft with the numbers 2ft x 2ft. They should be white on black or black on white only.
- 26) A sturdy metal headrest must be installed in all cars. Either doorpost to doorpost or floor to roof type acceptable. Use two pipes, one to slide inside the other for universal use. Post to post type must be below top of front seat and with padded vertical bar. Headrest pad where helmet would touch must be flat and padded. Should be an area 6 or 8" square. NO LONGER CAN YOU WRAP FOAM AROUND PIPE. If headrest is mounted far behind seat, a spacer must be used to place headrest pad right behind your helmet. Headrest must be bolted to roof, not welded to roof or floor, not welded. Headrest bracket can be welded or bolted to top of cross brace. Telescopic headrests must be pinned to prevent collapse in case of roll over
- 27) All cars must be able to start under their own power to enter each heat.
- 28) Pit crews must have fire extinguishers (Dry Chemical).
- 29) A flag holder must be welded to the right hand corner post or on upper point of window bar.
- 30) No changes to the car after the inspection are to be made
- 31) Tires must be car tires and a maximum 8 ply. All Wheel weights must be removed
- 32) The official's word is the final word.

The Following Will Not Be Tolerated

- 1) Convertibles, T-tops, sports cars, hearse, or ambulances.
- 2) Studded or truck tires.
- 3) Starting fluids systems or nitrous systems.
- 4) Bumpers other than original (i.e. and stock car bumpers).
- 5) Inverted bumpers.
- 6) Excessive holes through the firewall.
- 7) Welding extra to frame.
- 8) Filling inside of frame (i.e. concrete, steel).
- 9) Sandbagging.
- 10) Air or add-on coil over shocks.
- 11) Reverse or extended shackles.

The Following Must Be Removed

- 1) All glass
- 2) Fuel Tank
- 3) Trim
- 4) Dash
- 5) Upholstery
- 6) Loose and foreign material from cockpit and trunk
- 7) Lights and lenses
- 8) Plastic grills
- 9) Chrome (except bumpers)
- 10) Hubcaps, centre caps, and trim rings, wheel weights.
- 11) Trailer hitches
- 12) Air conditioning system must be discharged
- 13) Hood trim rings