

# HOPE BRIGADE DAYS

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[www.hopebrigadedays.com](http://www.hopebrigadedays.com)



## Demolition Derby Car Preparation

1. All glass must be removed from vehicle, including plastic ornaments, lights and bulbs. Outside mirrors not allowed, inside mirror may stay provided it is taped. Cars must be cleaned of loose objects and glass.  
OPTION: Windshield only may be left in.
2. Flammable upholstery must be removed except front seat and front door panels.
3. All doors must be securely fastened shut by means of chains and a bolt, or by metal clamps. Min. chain dia. 3/16"
4. Driver's and co-pilot's doors must be padded and re-inforced:
  - (a) Easiest way is pouring concrete in doors, doors must be at least half full. To avoid unnecessary weight, mix with sawdust or other light material instead of rocks.
  - (b) Steel bars used for door braces must be channel iron or pipe, minimum thickness 3/16". Corners should be rounded at both ends. Bars must be mounted in horizontal position only, and must be bolted or securely welded on. Bolting is strongest and preferred. Bars cannot extend beyond 6 inches of the front doors.
  - (c) Passenger door must be reinforced in the same way as the driver's door, if co-pilot is on board.
5. Two door and four door hardtops must have a brace behind front seat going from window ledge on driver's side frame to frame on opposite side of car. Passenger door must be braced the same way.
6. Body, chassis and suspension must be stock, except fender wells may be radius to tire height only.
7. No trailer hitches or braces allowed. No reinforcing permitted of wheel rims, frame, bumpers, radiator, etc.
8. Motor and transmission mounts may be strengthened. Front and rear body mounts may be removed. Threaded rod no larger than 3/4" diameter may extend through the trunk and/or hood. All other body mounts must remain stock. The rod will be measured.
9. Any motor and transmission may be used provided they are of standard automotive design, Rear ends may be welded or "locked". Gas tanks must be removed (see 14. Fuel Systems)
10. All cars must use standard cooling system - no oil allowed in water. Expansion tanks or extra long hoses not permitted. Radiators and/or fans may be removed is desired - no substitutes.
11. 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 that they will not fly open/off in a collision.
  - (b) Hoods may be locked during the day, but not while on the field. They must be chained down, chains must be joined with a strong wire or loose nut and bolt that can easily be removed by hand in case of emergency/fire.
  - (c) Doors, trunks and 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, which must extend over the wiper sill area, cover windshield opening and bolt through to the centre of the roof. Minimum 2" wide 1/8" steel flat bar must be bolted through the rear of the hood or through top of steel vent area between hood and windshield opening. Trunk doors may be welded, each weld no longer than 8" - no solid welds. Welds on trunk seam will be counted as one fasten point per weld.
12. Electrical system - Maximum 24-volt starting system is allowed.
  - (a) Battery must be relocated to the passenger side floor, totally enclosed in a box constructed of minimum 1/8" steel, secured to the floor with nuts, bolts and a minimum 2" washers. The battery box lid must be made of steel or a minimum 1/2" plywood, insulated to prevent short-circuiting.
  - (b) Stock ignition switches must be replaced with ON/OFF switch and a START switch, clearly labelled.
  - (c) All wiring must be insulated by wrapping a piece of rubber around where it passes through the firewall (e.g. 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 isolated from each other.  
**Note:** after the pre-race inspection, the battery box must be covered with a fireproof shield (i.e. rubber mat).
13. Air cleaner is compulsory and must be mounted securely on all cars. No tin cans or small chrome accessory types.

## Car Preparation

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14. Fuel Systems:
  - (a) All fuel tanks must be removed. A custom-built derby fuel tank constructed of minimum 1/8" thick steel must be securely fastened into the rear seat area or the front of the trunk of the vehicle, using minimum 2" washers.
  - (b) Tank and cap must not leak if inverted.
  - (c) Fuel fitting and vent must be on the top of the tank, and the vent must have a check valve or pig-tail 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 that the fuel line pass through a garden hose the length of the passenger compartment. The fuel line must be protected with floor mat or similar material through the firewall. Any standard consumer grade of pump gasoline may be used. Any type of fuel pump is permitted.
15. Fire access: two holes of minimum 8" diameter must be cut in hood, one on each side, to expose carb fire.
16. Distributor may be protected with one piece of maximum 1/2" flat plate, which must not be more than 1" larger than the distributor cap on sides or top.
17. Driver and co-pilot seats and seat belts must be securely anchored.
18. Horns must be disconnected or removed.
19. All cars must have their competition number on both sides of the vehicle and upright on roof. Front door should be used. If front door has brace, use rear door or quarter panel. Numbers must be clear, 16" high and 1" to 1.5" thick. This rule must be adhered to pass inspection.
20. A sturdy headrest must be installed in all cars. No wooden brackets allowed. Post to post or floor to roof types preferred. To make a strong permanent universal headrest, use two lengths of pipe, one must slide inside the other. The biggest pipe should be short enough to fit inside the smallest car you want to use - the smaller pipe needs to be only a couple of feet long. Bolting brackets at either end. Bars should be adequately padded where head touches.
21. If frame or cross-members are cracked, they may be repaired with the same type of material as originally used. The new material cannot extend more than 6" on each side of the fracture.
22. Flag holder must be welded to centre post for placing white flag if car out of action (see Derby regulations). Flagged cars cannot be restarted during heat.
23. Pit crews must have fire extinguisher (Dry Chemical) on hand.
24. Cars must be equipped with working brakes, and must be able to start under their own power to enter heat.
25. No changes to car after inspection is made. The official's word is the final word.

Note: If you wish to protest a car you believe is not conforming to the rules, you are required to put up \$100.00 protest fee. If the car in question is found to be illegal indeed, it is disqualified and you will be refunded your protest fee. However, if the vehicle is deemed legal, the driver you challenged will be permitted to keep the protest fee.

### **The Following Will Not Be Tolerated:**

1. Convertibles, T-Tops, sports cars, hearses; ambulances.
2. Studded or truck tires.
3. Starting fluid systems or nitrous systems.
4. Bumpers other than the originals (i.e. any stock car bumper)
5. Inverted bumpers.
6. Excessive holes through the firewall.
7. Extra welding to frame.
8. Filling inside of frame (i.e. concrete, steel)
9. Foul language painted on car.
10. Sandbagging.
11. Air or add-on coil over shocks.
12. Reverse or extended shackles.

### **The Following Must Be Removed:**

1. All glass.
2. Fuel tank(s).
3. All the trim.
4. All upholstery except front seats and front doors.
5. All loose and foreign material from cockpit and trunk.
6. Lights and lenses.
7. Plastic Grilles.
8. All chrome accessories, except bumpers.
9. Hub caps, center caps, trim rings and wheel weights.
10. Trailer hitches.
11. Hood trim rings..
12. Air conditioning system must be discharged.

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## Demolition Derby - General Safety Regulations

- (1) All drivers must wear approved automotive crash helmets and long-sleeved heavy shirts, jackets or overalls.
- (2) Drivers must wear eye protection. Those wearing safety eyeglasses must have them taped or tied on.
- (3) All cars must be equipped with seat belts.
- (4) It is suggested drivers wear gloves to minimize hand injuries.
- (5) NO DRINKING or SMOKING while on the field. Be aware of alcohol consumption before the derby, intoxication will result in disqualification.
- (6) No excessive speed in pits - doing so will result in disqualification.
- (7) Before cars enter their heat, officials will check the brakes by asking the drivers to make a quick stop from approx. 10 mph. (16 kmh). Only foot brakes are permitted during testing, but emergency brakes may be used on the field.
- (8) When your heat is called, go around the field counter-clockwise.
- (9) When entering a heat, each driver is given a red and a white flag. Drivers must raise the white flag when they are out of action. If a driver becomes injured or the car catches fire, the red flag is raised to signal officials to stop the race.
- (10) To start heats, a countdown from 10 to 1 takes place. A loud horn is also used to start and stop - ONE blast means start - TWO blasts signal to stop immediately. Red flags waived by officials around the field also mean STOP. After an emergency, one blast from the horn means to re-start.
- (11) Except in the case of an emergency, all drivers must remain in the car during a race. In case of an emergency the race will be stopped.
- (12) Drivers and co-pilots must keep head, arms and hands inside the vehicles at all times during the race.
- (13) FIRE - if a small fire occurs, stop near an official to have it put out. If it is a large fire, the heat is stopped. The car in question will not be allowed to re-start.
- (14) If a roll-over occurs, the race will be stopped and the car put back on its wheels. The car and driver will be checked by officials to determine if it is safe to continue. In order to do so, the car must start by itself within 30 seconds.
- (15) Any car that goes over the log barriers with two or more wheels is out of action. But if only one wheel goes over and you can get back in under your own power within 30 seconds, you are allowed to continue.
- (16) You must be involved in a collision every two minutes. This does not mean two minutes to get your car going.
- (17) Once the main heat has been started, no assistance can be given to a car by any pit crew member, not even if the race has been stopped for an emergency.
- (18) When a car is declared out of action by officials, the driver must stop immediately and raise his white flag.

## Demolition Derby - General Safety Regulations

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- (19) Cars will be disqualified for:
  - (a) Operating out of specified bounds.
  - (b) Using excessive speed in the pit area.
  - (c) Intentional collision with vehicles marked out of action showing white flag,
  - (d) Not being actively involved in a collision every two minutes.
  - (e) For not being a registered driver - see (23).
  - (f) If the driver or ANY associated pit crew is found under the influence of alcohol or any other intoxicant.
- (20) When race is over, only the crew of the winning car is allowed on the field. Other drivers and pit crews are asked to stay off the field until o.k. is given by officials.
- (21) If your car is still running after the race, please drive it off. The field is cleared by forklifts, and your assistance to the forklift operator is required. Please stay with your car till the forklift arrives, so you can indicate whether you just need a push or if your car has to be lifted off the field (due to broken steering).
- (22) All drivers must attend the drivers' meeting, half-an-hour before the event.
- (23) All cars and drivers must be pre-registered in accordance with registration and entry rules. A valid Hope and District Driver's Licence must be produced when registering.
- (24) No trucks or convertibles allowed. Station wagons and sedan deliveries will be placed in the next highest class.
- (25) Drivers and pit crews (total of three) must be 19 years of age or older. Hope Brigade Days is not responsible for any injuries sustained either by driver or pit crew. It is your responsibility to carry your own insurance for this purpose.
- (26) Drivers are entering a restricted area at their own risk. You are responsible for complying with the regulations placed upon this event - failure to do so may result in disqualification without any refund of your entry fee, and dismissal from the Sportsbowl.

**ANY DRIVER OR ASSOCIATED PIT CREW FOUND TO BE UNDER THE INFLUENCE OF ALCOHOL OR ANY OTHER INTOXICANT DURING AN EVENT, EITHER IN THE PIT AREA OR FIELD, WILL BE AUTOMATICALLY AND INSTANTLY DISQUALIFIED.**