

Humboldt Jaycees Demolition Derby 2009

Car Rules & Regulations

8 Cylinder Class

Safety for spectators, officials, drivers, and crews is our first concern. Fire, flying debris, and impact injuries. Keep these thoughts in mind when you are stripping and building your car.

Open to any make or model of car – foreign or domestic. **EXCEPT**: convertibles, t-tops, ambulance, hearses. There will be **ZERO** tolerance.

Mandatory Stripping of a Car:

1. Remove all glass, lights, lenses, mirrors, and hardware.
2. Remove all body trim, hubcaps, and exterior ornaments.
3. Remove fuel tank.
4. Remove trailer hitch and all mounting hardware.
5. Remove all interior upholstery, plastics, carpet, and trim **EXCEPT** front seat.
6. Prior to tech inspection, car **MUST** be cleaned of all loose objects, glass, and debris.

Building a Safe Competitive Car:

1. The tech judge's decisions will be final.
2. There will be no welding on the car **EXCEPT** where specified – even as a field repair.
3. There will be no reinforcement **EXCEPT** where specified.
4. If it does not say it is allowed, then it is **NOT** allowed.
5. All vehicles will be checked for working brakes (**You must be able to stop the car**).
6. Mandatory seat belt – Lap belt is the minimum requirement.

Doors and Door Reinforcements:

1. We will allow a cage built around the driver from sturdy, easily assembled material bolted to the car body **ONLY**. Bars may be welded to each other.
2. As a minimum, the driver's door **MUST** be reinforced with 2"x6" Channel Iron, 6" I-Beam, or 2"x6" Box Steel. 3/16" minimum thickness for a maximum of 76" long.
3. Ends of the bars must be chamfered, beveled, or rounded.
4. Door bars must be bolted **ONLY** with a minimum of four (4) 3/4" bolts through the entire door/doorpost or fender with a good size washer.
5. Door bar can extend 8" maximum ahead of the front fender/door seam.
6. Placement of bolts – Beware of driver's movement inside vehicle.
7. Remember, if the **DRIVER'S** door bar falls off – you are automatically disqualified from your heat.
8. All doors must be bolted, chained, or welded shut.

9. A Passenger door bar attached in a similar way as above is optional.
10. A floor to roof, cross bar behind the driver's seat is strongly recommended.
11. Head rest optional, but MUST be secure.
12. It is also recommended that the bars, door, and steering wheel be padded around the driver.

Hoods:

1. Car hoods are mandatory.
2. Hood must have a large enough hole suitable for fire extinguishing.
3. Hood must be bolted or chained in a minimum of two (2) places and maximum of six (6) points.
4. No bolts allowed ahead of the front rad support.
5. Maximum bolt head size 1 1/4"; minimum bolt head size 3/4".

Trunks:

1. Trunk lids are mandatory.
2. Must be bolted or chained.
3. Station wagon end gates secured with two (2) chains or welded closed.
4. Maximum bolt head size 1 1/4"; minimum bolt head size 3/4".
5. Maximum washer size 5".

Battery:

1. Must be relocated to the passenger side floor, securely fastened by nuts, bolts, and washers.
2. Battery must be covered by a rubber mat or in a marine battery case.

Electric Switches:

1. If used, they must be uniform. Up/forward for on, down/back for off.
2. It is strongly recommended that any electrical system used be fused.

Fuel System:

1. Fuel leaks or potential leaks will NOT be tolerated.
2. Fuel tank can be boat, snowmobile, or fuel cell and must be located in the rear seat area of the car, securely mounted with nuts, bolts, washers, metal straps, or ratchet straps. NO screws or bungee cords.
3. A hole/holes must be cut in the floor near, around or under the tank for drainage.
4. MUST have floor pan plugs removed.
5. Fuel lines entering through the firewall into the passenger compartment must be approved. Metal lines securely fastened with short rubber connections is acceptable.
6. Fuel pump type is optional.
7. Canadian pump gas ONLY – NO ADDITIVES.

Cooling System:

1. Must remain stock.
2. Anti-freeze MUST be drained and filled with water only.
3. Fan type optional.

Air Intake and Exhaust System:

1. Must have an air cleaner assembly with a filter element to act as a flame arrestor.
2. Exhaust must exit the engine compartment through the hood or out the bottom – manifolds alone are NOT enough.

Bumpers:

1. May be interchanged from year to year, model to model, but MUST be stock to manufacturer (GM to GM, Ford to Ford, etc.).
2. Maximum 3/16" flat iron plates allowed to hold bumpers on.
3. Bumpers may be inverted and trimmed.
4. Bumpers may be welded to bumper brackets and bumper brackets to frame. NO other reinforcements allowed.
5. Two (2) single rapped chains on each bumper may be used for support ONLY.
6. Maximum bumper height from the ground to the bottom of the bumper is 19 ½".
7. No truck bumpers.

Tires and Rims:

1. Any size rim that fits the bolt pattern. Rim CAN NOT be altered, modified or reinforced.
2. NO split rims are allowed.
3. Valve stem protectors and tubes are acceptable.
4. Maximum tire height is 31".
5. No studded tires.
6. No sand or directional tires.
7. Air only in tires. NO additives, liquids, solids, or fillers.
8. Wheel wells may be trimmed for clearance.
9. All wheel weights to be REMOVED.

Engines, Transmissions, and Differentials:

1. May be interchanged, but must remain in the stock position and true to manufacturer (GM to GM, Ford to Ford, etc.)
2. No welding of motor mounts. Bolts ONLY.
3. Motor mounts and transmission mounts may be chained.
4. Shifter type optional.
5. Differential may be locked.

6. Drive shafts may be shortened and U-joints tack welded. CV joints are acceptable.
7. Firewalls can be hammered back or cut away for distributor clearance.
8. Transmission cooler optional. MUST be mounted under the hood in front/behind the rad or in the passenger compartment, securely fastened with approved steel lines and adequate drain holes in floor.
9. Optional 3/4" hose on tranny dipstick.

Steering and Suspension:

1. Steering must be stock and in stock position. NO alteration or modification allowed.
2. Air shocks will be allowed. NO rigid suspension will be tolerated.
3. Rear lower trailing arms may be shortened.
4. Rear coil springs may be chained or tack welded to the differential ONLY.
5. Rear leaf spring banding and shackle length optional.
6. Dropping of center link is optional.

Paint and Body:

1. Driver's door MUST be painted white.
2. Car can be any other contrasting color(s).
3. No profanity as decoration or advertising.
4. If two cars are entered the paint jobs must be visibly different (cars must be easily differentiated). Roof signs are acceptable, but MUST be bolted securely.

Demo Derby General Rules

1. Anyone under the influence of Alcohol or Drugs will not be permitted to drive.
2. Cars must be derby ready by 5:00pm.
3. Vehicles must remain inside the ring. If ¼ or ½ of the car goes outside the ring, driven or pushed out, you are disqualified.
4. Intentional hit on driver's side door will result in an automatic DISQUALIFICATION (Judges decision).
5. **No blocking hits with the driver's white door.**
6. If you are hung up on debris or another car, the heat WILL NOT STOP. Get yourself off in the time allowed or you will be called out.
7. When a vehicle becomes disabled or timed out, the driver MUST break off his/her marker flag and remain in the vehicle until the heat has ended.
8. Once a marker flag has been broken off a vehicle, it becomes UNTOUCHABLE. An intentional hit on an untouchable vehicle will result in DISQUALIFICATION. (Judges decision).
9. A horn will indicate START/FINISH and will also indicate an EMERGENCY. All vehicles must STOP and/or leave the track as directed by one of the judges or officials.
10. If your brakes fail, **shut it down**. It's important for your safety and the safety of the spectators.
11. **If you smell gas, shut it down** and tell the flagmen, they will look into it.
12. All cars must have an assigned number.
13. There is a 90 SECOND RULE in place. Drivers must start your stalled vehicles and make a hit within this time frame or you will be DISQUALIFIED.
14. There will be absolutely NO stopwatches or headsets permitted in the car with the driver.
15. There is now a 2 FIRE RULE at the judges discretion. If there is NO POTENTIAL DRIVER HAZARD, and such, the driver will be able to continue (keeping in mind the 90 second rule), once a second fire, you will be DISQUALIFIED.
16. If a vehicle has ROLLED OVER, the driver is disqualified.
17. Last aggressive hit will win the heat (Judges discretion).
18. All vehicles must be inspected for safety, prior to the start of the derby. Absolutely NO after factory reinforcements will be permitted. INSPECTION WILL BE DONE ON SITE THE DAY OF THE DERBY.
19. **All rules will be applied at the discretion of the flagmen. Their decision is final.**

Rules for the Pit Crew & Area

1. Maximum of 3 persons plus the driver for each car. These people must sign a driver waiver to participate in the pit area.
 2. Nobody under the age of 16 is allowed in the pit area once the event starts.
 3. Anyone who is in the pit area must have a wristband on. If you are in the pit area without the wristband on, you could/will be fined.
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- No substitution of drivers on registered cars. If you are registered to a vehicle, you are the only one allowed to drive (in the main event)
 - Registration for 8-cylinder cars is \$60.00

** Please Note: These rules were designed for fairplay. No advantages or disadvantages to first time drivers or veterans **

ANY CARS REMAINING ON THE GROUNDS AFTER 24 HOURS WILL BE REMOVED AT THE REGISTERED DRIVER'S EXPENSE.