

Whatcom Demo Derby Club

RULE BOOK DISCLAIMER

The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events, and by participating in these events, all participants are deemed to have complied with these rules. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS OF OR COMPLIANCE WITH THESE RULES AND OR REGULATIONS.** They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator, or official.

The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose any further restrictions that in his/her opinion does not alter the minimum acceptable requirements. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS.** Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final.

Big Car Rules CHAIN AND GO, NO WELDING

Cars

1. Any North American passenger car is eligible.
2. **NO IMPERIALS ALLOWED** (this includes any form of imperial body or front clips)
3. No pickups, panels, carryalls, vans, four wheel drives, ambulances, convertibles or, t-tops allowed
4. Minimum wheel base is 103" and small cars maximum wheel base of 105"
5. All sunroof openings **must** be covered with sheet metal from the outside of the car and securely fastened to the roof.
6. Hearses, El Caminos and, Rancheros **ARE ALLOWED TO RUN NO VOTE NEEDED.**

Car Preparation

1. All glass including the windshield **must** be removed No removal of glass allowed at the track
2. All light covers and bulbs, side mirrors, hub caps, grills, side chrome, plastic, door handles, locks, wheel weights and, pot metal **must** be removed
3. All flammable material **must** be removed from the inside of the vehicle. This includes carpet, rear and passenger seat, all interior trim, door panel and, roof liner. Leaves and other flammable debris
4. Trunks **must** be free of any debris
5. Inside of doors **must** be free of any debris Including leaves and glass
6. All trailer hitches, related brackets, reinforcements and, hardware **must** be removed.
7. Stock fuel tanks **must** be removed
8. plastic inner fenders must be removed

Fuel systems

1. A limited capacity metal tank is required as a replacement gas tank.(6 gal. max. fuel capacity is allowed)
2. You must solidly mount the tank in the interior of the car, ahead of the rear axle, in the rear seat area and, at least 12" away from the inner door panels, center of the rear seat area is preferred.
3. Gas tank may **NOT** be bolted to the frame. Gas tank may **not** be used as a kicker to keep the frame from dropping or moving forward or backward Subject to Tech Approval.
4. **No** plastic tanks or boat tanks are allowed
5. All gas lines and fittings **must** be free from leaks **No Exceptions!**
6. Rubber lines fuel lines located in the passenger compartment should run through a second larger hose such as a garden hose to prevent accidental spillage on the driver. Fuel lines may not run between battery box and passenger door.
7. A hole **must** be made in the floor board for fuel run off.
8. Electric fuel pumps are **optional.**
9. You may use a propane tank as a fuel tank. (gas only)
10. gasoline only no alcohol, nitrous, or propane
12. Gravity Fed / Bottom Fed. Fuel Tanks allowed must have ¼ shut off valve easily accessible. Vent hose

must be looped above tank and secured through hole in floor

Batteries

1. Batteries **must** be relocated inside of car and placed in a battery box made out of metal and fully enclosed. Batteries must have an insulating barrier between top of battery and lid ex rubber, foam, wood
2. Battery box **must** have a lid that covers the entire top of the box and it **must** be securely fastened shut. **No ratchet straps or bungee cords of any type or duct tape will be allowed to fasten lid shut.**
3. Switches or wires used for powering the car **off must** be within reach of the driver while harnessed in. There will be no acceptable excuse for not being able to turn your car off in an emergency.

Safety Bracing

1. A front cross brace **must** be installed above the steering column from window post to window post (in the former position of the dashboard). The dash bar **must** not touch the fire wall and must be 5" from the fire wall. In other words dash bar should be a single round or square tube with a flag holder nothing else. It must be a minimum 2" diameter pipe or square tube with 1/8" wall thickness and securely fastened into position. The dash bar in no way may touch the floor or transmission or be attached to the frame of the vehicle. Dash bar cannot have any thing that can be considered a kicker coming off of it and nothing coming forward of the dash bar. If a two piece dash bar is used, it must be securely fastened so that it cannot collapse (welded or minimum 3/4" bolt)
- 2A. A rear cross brace **must** be installed from door inner skin to door inner skin, as close to the door post (B-pillar) as possible, and at least halfway up the door from the floor. It must be a minimum 3" diameter, 1/8" wall pipe or square tubing, with plates welded on the ends. The end plates may not extend more than 15" past the cross bar (towards the rear of the car). The cross brace must be bolted with a minimum of two 3/4" bolts, extending through the side irons. If the cross brace is collapsible, it must be pinned with a 3/4" bolt (minimum) or welded so that it cannot collapse or rotate.
- 2B. All cars must have 1 upright (vertical) post, upright must be located directly behind the drivers seat. The upright must be made of minimum 2" diameter, 1/8" wall pipe or square tubing with a minimum 4"x4" plate welded to the top. The upright will extend from the roof to the cross bar, or from the roof to the floor. If using a two piece upright it must be pinned with a 3/4" bolt or welded so that it cannot collapse. It must be held in place with a minimum of 2 3/8" bolts at the top and at the bottom with 2" washers on both sides of the bolts. Optional: you may add a second upright on the passenger side of the vehicle.
3. We want your cross bar and upright as close to the seat as possible. So you have a choice: Either your Cross bar or Vertical upright must be 4" or closer to your seat. Your upright and cross bar must be welded together with a maximum 2" spacer connecting them. There must be a solid metal support behind the headrest area of the seat, no more than 2 inch gap between headrest and support, and the headrest must be duct taped to the upright.



4. Both front doors must be reinforced with a minimum 8" wide, 3/16" thick channel iron. The side iron must not be more 6' in length and must begin ahead of the front door seam and Must be 6" in front of the front door seam. The side irons must be bolted with a minimum of three 3/4" bolts that extend through the inner panels of the door. Backing plates and washers must be used and must be a minimum of 4"x4", x3/16" thick on both the front and rear ends of the door bars. The front bolt must be located no further back than the front fender/front door seam. One bolt must go through the cross bar plate. The ends of the side irons

must be cut at 45-degree angles.

5. **No kickers will be allowed.**
6. Gas tank protectors are allowed and must be at least 4" from all sheet metal and only mounted to the cage. Maximum height is 16" from bottom of protector. It cannot exceed 36" wide and must be centered between rear humps. You may not remove rear sheet metal for clearance and protector must be at least 4" from all sheet metal.
7. In Lieu of outside Channel Iron, You may use Inside door bars. They cannot exceed 6' in length. And no more than 6" in front of front door seam. Material used: You may use Channel Iron 8" minimum 3/16" thickness or 4" by 4" square tubing 3/16" minimum thickness.
8. Halo bars may not attach to the frame. If using halo bars, you must also incorporate an upright directly behind the driver's seat. Max height for protector 16" from bottom of protector

Seat and Seat Belts

1. A lap and shoulder seat belt is **mandatory**. they must be securely mounted and have a minimum 2" diameter flat washer where it is mounted through the sheet metal.
2. Four point harness is recommended
3. Seat can be OEM stock of any make/model car(Honda prelude/CRX seats not recommended).
4. Place a padded headrest on the upright behind the seat if the seat was not equipped with a headrest **mandatory**.
5. No fiberglass or plastic racing style seats will be allowed.

Building and Securing No welding! (This is a chain and go)

1. bolting or chaining. If you bolt the doors shut you may use up to four 1/2" bolts per door. If you chain the doors shut you may use 2 chains no larger than 3/8" thick per door.

Building and Securing

2. Hoods can be secured in a maximum of six places other than stock only two of the six can be secured to the frame. You may use Maximum 2 bolts and the rest need to be chain.
 - Bolt size must be a minimum 1/2" and maximum of 1" diameter. Bolts must not exceed 4" above the vehicle surface. Max plate size for washer is 6"x6" diameter and no thicker than a 1/4".
 - Chains must be a minimum 3/8" and maximum 1/2" welded type chain. A bolt no smaller than 3/8" and no larger than 1/2" with washers must connect the chain**Hoods must be opened for tech bring your hoods to tech. You may run without a hood.**
3. Trunks must be fastened in six places other than stock only two of the six may be secured to the frame, you may use any combination of bolts, or chains.
 - bolts maximum of two 1" bolts are allowed with a maximum plate size of 6"x6" diameter and 1/4" thick. All other bolts will be no larger than 1/2" diameter with a max washer size of 2"
 - chains must be a minimum 3/8" and a maximum 1/2" welded type chain. A bolt no smaller than 3/8" and no larger than 1/2" with washers must connect the chain
4. BUMPER SWAPS ARE ALLOWED, You may bolt your bumper to the frame with one 1" diameter bolt on each side of the bumper. 2 bolts max per bumper. Max bolt length just enough to go thru the shock and put a nut and washer on and no longer.
 - bolts maximum of two 1" bolts are allowed with a maximum plate size of 6"x6" diameter and 1/4" thick.
5. Bumper brackets may not be relocated. They must remain in their stock location.
8. Bumper shock itself may be collapsed No added material.
11. **ABSOLUTELY NO STUFFED OR AFTER MARKET BUMPER WILL BE ALLOWED**
13. **ABSOLUTELY NO PAINTING OF THE FRAME, YOUR CAR WILL NOT EVEN BE INSPECTED!!!**

Window and Window Screen

1. two chains, or two flat bar 3" wide 3/16" thick or two 1x1x1/8 pipe down the center of the windshield from top to bottom. Window bar or chain must be secured with a minimum 3/8" bolts maximum 1/2" bolts. Window bar or chain **cannot** be welded in place. Bars may only extend onto the firewall 6" and 12" onto the roof and may be any distance apart at top and bottom. Max 6x6 for attachment at each end of each bar.
2. **Optional 2** Rear window bars will be allowed 1/2" thick 2" wide. They cannot touch the trunk floor, bumper, or the rear pins and can only go 12" on the roof from the rear of the car. They cannot be placed on the quarter panels. No pipe flat stock only Max 36" long, 12" on roof and 12" on trunk may not touch pins and may not be connected together.
3. **Optional:** a protective screen of 1/2" wire mesh or smaller maybe installed on the front windshield in front of the driver

Radiator and Coolers

1. Radiators must remain in the engine compartment in stock location.
2. Radiators and/or fans may be removed
3. An expansion tank maybe used instead of a radiator. It must be made of metal, be no larger than a 1 gal.(NOT MUCH BIGGER THAN A MILK JUG). When mounting it, it may in no way strengthen the frame may be mounted directly to the motor. Cannot be used as a kicker. Subject to tech approval
4. Transmission coolers are allowed and can be mounted in the engine compartment or inside the car attached to the firewall and totally in-closed in a metal box must use high pressure lines and the must be leak free. Coolers may not be mounted to the frame or used as a kicker to keep the frame from dropping or moving forward or backward subject to tech approval.

Motor Mounts and Suspension

1. Stock Motor mounts and transmission mounts maybe strengthened with bolts, or chains. No welding. And no mount should strengthen the car in any way!
5. No motor plates DPs, Halos, aftermarket motor mounts, sliders, pinion brakes, reinforced rear ends, or any other aftermarket derby parts will be allowed. Up to techs discretion
6. Any 5 lug rear end may be used.
8. Leaf conversions are not allowed. Suspension must remain stock maximum of 9 leaf springs.
9. You may clamp leaf springs. 4 clamps per leaf 2"x 1/4" max clamp size, 2- 3/8" bolts per clamp.
10. You may not weld suspension solid.
11. **ABSOLUTELY NO TRANSMISSION PROTECTORS WILL BE ALLOWED**
13. **03 AND NEWER CROWN VICS MUST USE THE STOCK ALUMINUM CRADLE AND SUSPENSION.**

Distributor Plates and Carburetor Protectors

1. Distributor plates are not allowed.
4. No other carburetor cages, protectors, or distributor plates will be allowed. Any questions call the head tech official.

Exhaust

1. Stacks are allowed.
2. Any stock exhaust is allowed
3. NO STACK PROTECTORS ALLOWED

Carburetors

1. Any gas carburetor is allowed. No alcohol or propane will be allowed
2. Air cleaners or suitable flame arrestor is required

3. Two 6"x6" holes must be cut in the hood on either side of the carburetor to allow for fire extinguisher access. Stack holes are acceptable for fire access.
4. No alternative starting methods allowed (I.e. starting fluid)

Brakes

1. All cars must have at least two working hydraulic brake and must be demonstrated at tech.

Tires, Wheels and, Tie-Rods

1. Any tire may be used, doubled and fork lift tire O.k. as long as they do not stick outside of the fenders at the start of the derby.
2. No split rims.
3. Wheel weights must be removed
4. Valve stem protection is permitted
5. Spring shackle must remain stock no reversing the shackle to lift the ride height.
6. Tie rods may not be reinforced, no pipe tie rods and must have stock ends

ROOF SIGNS

1. Car numbers will be painted on the signboard.
2. Numbers must be at least 18" high and a minimum of 2" thick
3. Signs must be contrasting colors such as black numbers on white background
4. If the signboard is unreadable the car will not be allowed to race until corrected

MISC CAN & CANNOT DO

1. You may cut the firewall for distributor clearance, but the hole must be recovered with a rubber mat or tin
 2. Body bushings may not be removed
 5. Fire extinguishers are **NOT** mandatory, but highly recommended. If you have one it must be securely mounted and within drivers reach.
 6. You may **NOT** chain the rear humps.
 8. **BODY BOLTS MUST REMAIN STOCK!**
 9. **NO STEEL AFTERMARKET TRANSMISSION BELLHOUSINGS ALLOWED.**
- MAKE SURE THAT YOUR CAR IS READY FOR TECH WHEN IT COMES THROUGH THE LINE (IE ALL BOLTS ARE TIGHT AND THINGS ARE SECURELY FASTEND DOWN) THERE WILL BE A LIMITED NUMBER OF CHANCE TO PASS TECH...**

Race procedures

Driver's door hits can cause losing your place and payout and forfeit the opportunity to race in the next show

All body parts must remain in the vehicle until the race is stopped.

Tech has final say

Do not build your car in the pits

Evening only heats must be lined up for tech after the evening show

You must make an aggressive hit every 2 minutes or you will be timed out.

Sandbagging may cause you to lose your place and payout and the opportunity to race in the next show.

If your vehicle is rolled over, you are timed out at that time.

You are allowed 2 fires, the 3rd fire disqualifies you and you are timed out at that time.

After you pass tech your vehicle must be lined up for its heat. No modifications may be made at that time.

Hits after the horn sounds to stop a heat, hitting another competitor may be cause for disqualification

You must have a red flag to start the event, when you are timed out, a timer will instruct you to put up your flag.

You must wear a helmet, eye protection, long sleeves and long pants.

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