

# 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 the publication of or compliance with these rules and 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.

## CHAIN AND GO CLASS

The only aftermarket parts that are allowed are, pedals, shifter, transmission cooler, gas tanks, battery box and sliders.

a. No other aftermarket derby parts will be allowed.

## 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"
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
9. **Nothing in the interior of the car may be bolted or attached to the frame.**

## 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. Each tank must have a vent hose that coils above the tank and goes through a hole in the floor in case of a roll over.
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
11. 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 the car and placed in a battery box made out of metal. Fully enclosed or open top clamp style ok.
2. Batteries must have an insulating barrier between the top of the battery and the lid.
3. 3 batteries max

4. Switches or wires used to power the car must be in the reach of the driver while harnessed in. There will be no acceptable excuse for not being able to shut 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 the 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)
2. 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.
3. 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.
4. 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.
5. 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.

6. No kickers will be allowed..
7. 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.
8. 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 2" by 6" square tubing 3/16" minimum thickness. Drivers side must have exterior door bar. 6" minimum
9. 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).
  - a. Place a padded headrest on the upright behind the seat if the seat was not equipped with a headrest mandatory.
4. No fiberglass or plastic racing style seats will be allowed.

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

1. BODY BOLTS MUST REMAIN STOCK!
  - a. Body bushings may not be removed, except where the 1" all thread goes through the truck and hood area
2. Absolutely no body work or body shaping allowed.
  - a. Truck lid may be tucked
  - b. Hood may be folded
3. Doors may be secured shut by either bolting, chaining, or #9 wire. **May not touch the frame or go around the frame.**
  - a. If you bolt the doors shut you may use up to (4) 1/2" bolts per door.
  - b. If you chain the doors shut you may use 2 chains no larger than 3/8" thick per door.
  - c. #9 wire, 2 spots per door, 2 wraps per spot

4. 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 or #9 wire
  - a. Bolt size must be a minimum  $\frac{1}{2}$ " 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  $\frac{1}{4}$ ".
  - b. Chains must be a minimum  $\frac{3}{8}$ " and maximum  $\frac{1}{2}$ " welded type chain. A bolt no smaller than  $\frac{3}{8}$ " and no larger than  $\frac{1}{2}$ " with washers must connect the chain
  - c. #9 wire 2 wraps per spot
5. Hoods must be opened for tech bring your hoods to tech. You may run without a hood.
6. 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, chains, or #9 wire
  - a. bolts maximum of two 1" bolts are allowed with a maximum plate size of 6"x6" diameter and  $\frac{1}{4}$ " thick. All other bolts will be no larger than  $\frac{1}{2}$ " diameter with a max washer size of 2"
  - b. Chains must be a minimum  $\frac{3}{8}$ " and a maximum  $\frac{1}{2}$ " chain. A bolt no smaller than  $\frac{3}{8}$ " and no larger than  $\frac{1}{2}$ " with washers must connect the chain
  - c. #9 wire, 2 wraps per spot
7. 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 10", and max 8" from back of bumper
8. Front and rear bumper height is 15" minimum to the bottom of the bumper and a max of 22" at the bottom of the bumper.
9. Bumper brackets may not be relocated. They must remain in their stock location.
10. Bumper shock itself may be collapsed No added material.
11. If you do not have a bumper you may use a max 5"x5"x $\frac{1}{4}$ " square tube, it must remain open ended and straight. It cannot extend more than 10" from the outside of the frame. Only one Tube allowed, You cannot weld two tubes together to achieve 5"x5"
12. ABSOLUTELY NO STUFFED OR AFTER MARKET BUMPERS 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  $\frac{3}{16}$ " thick or two 1x1x $\frac{1}{8}$  pipe down the center of the windshield from top to bottom. Window bar or chain must be secured with a minimum  $\frac{3}{8}$ " bolts maximum  $\frac{1}{2}$ " 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. No rear window bars
3. 3. Optional: a protective screen of ½" 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 must be used, maybe strengthened with bolts, or chains. And no mount should strengthen the car in any way!
2. You may use a 6"x6"x1/2" plate to mount your motor, Plate may be welded or bolted to K member. Stock lower mount may be welded or bolted to the plate.
3. Suspension must remain stock
4. Any 5 lug rear end may be used, absolutely no bracing.
5. Leaf conversions are not allowed. Maximum of 9 leaf springs. No double springs.
6. Spring shackle must remain stock, no reversing the shackle to lift the ride height.
7. You may not weld suspension solid.
8. Front a arms may be chained down. Nothing excessive!
9. 03 and newer crown vics and Lincoln must use the stock aluminum engine cradle and suspension

## 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 brakes 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. Tie rods may not be reinforced, no pipe tie rods and must have stock ends
6. Max 8" diameter wheel center on stock wheel only. No beak locks or bead protectors.

## 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. Fire extinguishers are **NOT** mandatory, but highly recommended. If you have one it must be securely mounted and within drivers reach.

## Repairing of pre-ran cars

1. Frame repairs are only allowed on pre-ran cars and can only be done in the following way.

- a. If the frame seam is torn or separated you may weld the seam/tear only where it is torn.
  - b. You will be allowed 2 frame repair plates per corner of the car. Repair plates are max 4"x6"x1/4" thick flat plate. The plate can be bent or cut to fit the frame but if you cut it you will not be allowed to use the cut pieces. You may weld all 4 sides of the plate but there must be a hole put in the center of the plate to check for thickness.
2. If the body panels are separated or torn you may stitch weld them back together 2" on 2" off. No adding extra metal.
3. Cannot weld the body of the car to the frame no exceptions.
4. You will be able to repair bent tie rods with a 1" max piece of pipe must use the stock ends.
5. No re-stubing or replacing the front or rear frame on a pre-ran car.
6. No #9 wire
7. All of the repairs will be inspected and anything outside of the guidelines will not be allowed to run. So if there is a question ask one of the tech officials.

MAKE SURE THAT YOUR CAR IS READY FOR TECH WHEN IT COMES THROUGH THE LINE (IE ALL BOLTS ARE TIGHT AND THINGS ARE SECURELY FASTENED DOWN) THERE WILL BE A LIMITED NUMBER OF CHANCE TO PASS TECH...

## Race Procedures

1. Drivers doors hits may result in loss of placing, payout and/or the ability to race in the next event if they are deemed by the officials that you could have avoided it.
2. All of the drivers body parts must remain in the vehicle at all times while the event is going.
3. Do not build your car in the pits
4. You must make an aggressive hit every 2 minutes or you will be timed out
5. You are allowed 2 fires, if you have a 3rd fire your time will stop and that will be your placing based on your time.
6. After you pass tech your vehicle must be lined up in the heat that you are placed in. (do not go back to your pits)
7. You must wear a helmet, safety glasses, long sleeve shirt, long pants and closed toed shoes.