

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.

Truck Rules

BODY

1. **NO FOUR WHEEL DRIVES, NO EXCEPTIONS.**
2. Any full size pickup truck or suburban is eligible to run.
3. No panels, mini vans, vans, or mini trucks. Minimum wheel base of 103"
4. All sunroof openings must be covered with sheet metal from the outside of the truck and securely fastened to the roof.
5. If you are running a **small** truck you are allowed to use a 4x4 as long as the front driveline is removed

TRUCK PREPERATION

1. All glass including windshield must be removed.
2. Flammable materials inside the truck must be removed. These include carpet, rear seats, roof liners, interior trim, and dash board.
3. Truck bed must be free from debris
4. All light covers and bulbs, side mirrors, hub caps, grills, side chrome, plastic, pot metal, and door handles must be removed
5. All trailer hitches, related brackets, reinforcements, and hardware must be completely removed.
6. Stock fuel tanks must be removed.

FUEL SYSTEMS

1. A limited capacity metal tank is required as a replacement gas tank (6 gal. max fuel amount).
2. **No boat tanks or plastic tanks**
3. Fuel tank must be solidly mounted in the bed of the truck as close to the cab as possible. Rear seat area if you have a suburban or an extended cab as close to the cross bar as possible centered in the truck.
4. Mounting tank to the crossbar is preferred but not mandatory
5. Gas lines and fittings must be leak proof.
6. All rubber lines that run through the cab should run through a larger hose such as a garden hose.
7. A 3/4" hole must be made in the floor/bed under the gas tank for fuel run off in case of a spill or leak.
8. Electric fuel pumps are optional
9. no gas tank protectors allowed. Tanks maybe mounted to the cross bar cannot go back farther than 15"
10. **No Gravity Fed / Bottom Fed. Fuel Tanks allowed. Lines must exit top of tank.**

SAFTEY 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) It must be made of a minimum 2" pipe or square tube with 1/8" wall thickness. It must be securely fastened into position. The dash bar may in no way touch the floor or be attached to the frame. The dash bar cannot have anything coming off of it that can be considered a kicker to prevent the body from lifting.
2. A rear cross brace must be installed behind the drivers seat, if you are running a single cab the cross bar can be placed in the bed as close as possible to the cab. Must be made of 3" pipe or square tube with 1/8" wall thickness, with plates welded on each end. The end plates may not extend more than 24" from the back of the cab. Cross bar must be mounted with a minimum of one 3/4" diameter bolt per side that extends

through the side iron. The cross bar must also be bolted to the frame with a max 2 bolts max size is 1" diameter. If you run two cross bars they must be attached to each other and be a maximum 24" from the back of the cab. you may only use two bolts 1" diameter to the frame.

3. All trucks must have one vertical upright post directly behind the drivers seat. Upright must be 2" diameter pipe or square tube with 1/8" wall thickness with a minimum 4"x4" plate welded on each end. The upright will extend from roof to the top of the cross bar or roof to the floor as close to the drivers seat as possible. It must be attached with a minimum two 3/8" bolts. If using a two piece upright the female end should be above the helmet level and solidly pinned with a 3/4" bolt or welded solid. Optional a second upright maybe added to the passenger side.

4. Both front doors must be reinforced with a minimum 8" wide, 3/16" thick channel iron. The side iron must be no longer than 6' and must begin in front of the front door seam and be no more than 6" in front of the door seam. The side iron must be bolted with a minimum three bolts 3/4" diameter that extend through the inner panels. The front bolt must be no farther back than the front door seam and one bolt must go through the cross bar plate. Backing plates must be used 6"x6"x1/4". The ends of the side irons must be cut at a 45 degree angle.

5. Optional you may add a extra rollover bar from the top of the upright to the box floor can be a maximum distance of 24" from the back of the cab. Roll over bar cannot be attached to the frame with a bolt or weld. If they are welded to the optional second cross bar you will not be allowed to bolt the second cross bar through the bed floor

SEAT AND SEAT BELTS

1. A lap and shoulder belt are **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 harnesses are recommended.

3. Seat can be O.E.M. 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, WELDING & SECURING

THERE WILL BE NO OTHER WELDING OTHER THAN WHAT IS STATED BELOW. IF YOU HAVE A QUESTION ABOUT WELDING, PLEASE CALL THE HEAD TECH OFFICIAL!! IF WELDING IS FOUND ON THE FRAME OR SHEET METAL THAT IS NOT SPECIFIED BELOW, YOU WILL BE ASKED TO CUT OR LEAVE!!

1. Outer Door seams may fully welded. You may use filler no larger than 2"wx1/8"t or 3/8" diameter rebar or equivalent. 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.

2. Tailgates may be welded solid. You may use filler no larger than 2"wx1/8"t or 3/8" diameter rebar or equivalent. And have either two chains or two 1" all-thread. If you use all-thread and it touches the frame it will be counted as a bed pin. If you use chain and it wraps around the frame it will also be counted as a bed pin.

3. If using angle iron to attach the tailgate pins the max angle iron size is 6"wx6"hx6"Lx1/4"thick.

4. You are allowed four extra bed bolts. 1" diameter and the plate size will be 6"x6"x1/4"thick.(tailgate bolts that are connected to the frame in any way will count as bed pins)

5. Hoods can be secured in in a maximum of six places other than stock only two of the six can be secured to the frame. You may use bolts or chains.

- bolt size must be a minimum 1/2" and maximum of 1" diameter only two bolts in an area on either side of the radiator may extend through the frame. Bolts must not exceed 4" above the vehicle surface. Max plate size 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

6.. Bumper swaps are allowed, however you may **not** swap bumper brackets, brackets must remain original to the car. Any questions call tech.

7. Bumper brackets may not be relocated. They must remain in there stock location.
8. Front and rear bumpers may be welded solid (bumper to bumper, bumper to shock, shock to shock, bracket to bracket, bracket to frame) no adding metal.
9. Bumper must not be welded to the body. **Except** if you are using any welds that are securing your tailgate **Any questions call a tech official.**
10. Bumper shock it self may be collapsed and welded. No added material.
11. You may weld the outer bumper skin to the inner bumper structure of the bumper.
12. You cannot relocate the trucks rear bumper to the front of the truck No Exceptions.
13. Rear bumpers are optional and can be welded to the tailgate but may not be welded to any other part of the body. No after market bumpers will be allowed
14. Rear bumper and bumper brackets may be welded to the frame.
15. To simplify most of the bumper welding rule we are allowing the frame seams to be welded from the front edge of the A-arms forward. Top, bottom and, sides seams only no adding metal weld width can be no wider than a half an inch. No welding the A-arms to the frame.
16. **NO STUFFED OR AFTER MARKET BUMPERS WILL BE ALLOWED**
17. **Truck Box maybe welded to cab of truck on the outside seam only. You may use up to 2" wide 1/8" thick flat bar.**
18. **ABSOLUTELY NO PAINTING ON THE FRAME!!!**

WINDOW / WINDOW SCREEN

1. One chain, or one flat bar 3" wide 3/16" thick 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.
2. Rear window bars are not allowed.
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.
2. Radiators and/or fans maybe 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 now way strengthen the frame or be used as a kicker. may be mounted directly to the motor. Subject to tech approval
4. Transmission coolers are allowed and may be mounted in the engine compartment or inside the cab in-closed in a metal box with high pressure lines free from leaks. 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.

Batteries

1. Batteries **must** be relocated inside of car and placed in a battery box made out of metal and fully enclosed.
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 with in 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.

Motor Mounts and Suspension

1. Motor mounts and transmission mounts maybe strengthened with bolts, welds or chains.
2. Motor straps welded to the frame and bolted to the motor are allowed. Straps maybe a maximum of 2" wide, maximum of 3/8" thick flat bar. You are only allowed two straps per side of the motor. **ONE 2"X2" ANGLE IRON COUNTS AS TWO STRAPS. If you are running an engine cradle you cannot run the extra motor straps.**
3. Engine straps may go no further forward than 3" in front of the forward most part of the cylinder head and, no further back than 3" past the rearward most part of the cylinder head.
4. Engine cradles are allowed as long as they mount in the stock location and in **No Way** strengthens the

frame. **ANY QUESTIONS CALL YOUR HEAD TECH OFFICIAL.**

5. No motor plates will be allowed
6. Any 5 or 8 lug rear end may be used.
7. Leaf conversions are not allowed. Suspension must remain stock maximum of 9 leaf springs.
8. You may clamp leaf springs. 4 clamps per leaf 2"x 1/4" max clamp size, 2- 3/8" bolts per clamp.
9. You cannot weld suspension solid.
10. ABSOLUTELY NO TRANSMISSION PROTECTORS.

Distributor Plates and Carburetor Protectors

1. Distributor plates are allowed. Distributor plates may not be bigger than 10"x10" flat plate.
2. Distributor plate may not be attached to the fire wall or to the frame in any way.
3. If the distributor plate is used you may attach it to the front/rear of the intake manifold on both sides of the carburetor with a maximum 1" diameter pipe or square tubing with one bolt to the plate and one to the intake. Supports can only be above the carburetor by 1".
4. No other carburetor cages, protectors, or distributor plates will be allowed. Any questions call the head tech official.
5. big rock DP are approved

Exhaust

1. Stacks are allowed.
2. Any stock exhaust is 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. must not stick outside the quarter panel 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.. Truck number must be put on both doors and easily read. If you number is not readable you will not be allowed to run until corrected.
2. Car numbers will be painted on the signboard.
3. Numbers must be at least 18" high and a minimum of 2" thick
4. Signs must be contrasting colors such as black numbers on white background
5. 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 be removed. If replacing bolts you must use stock size bolts. Washer may not cover body mount hole on the exterior of the frame **NO EXCEPTIONS.**
3. You may re-bolt hood skins. You are allowed 15 bolts maximum, 3/8" diameter bolt size, 1" max washer size.

4. You are allowed 5 bolts per corner of the car to re-bolt out and inner skins together. (5 in each fender and 5 in each quarter panel) 3/8" diameter bolts, 1" diameter washer. These bolts cannot touch the frame or be used to secure the tailgate, hood or, bumpers to the body. No welding of the body panels!!!
5. Fire extinguishers are **NOT** mandatory, but highly recommended. If you have one it must be securely mounted and within drivers reach.
6. No adding a transfer case. No 4 wheel drives.

7. NO WEDGING THE REAR OF THE TRUCKS. QUESTIONS CALL YOUR HEAD TECH OFFICIAL

REPAIRING DAMAGED CARS OR PRE RAN CARS

1. Frame repair is allowed you can weld any crack in the frame with a single pass(**NOT SEAM WELD THE FRAME JUST THE SPLIT CAN BE WELDED**).
2. You are also allowed (2) 4"x4"x1/8" plate per corner of the car. Plates can only be welded on three sides and the to plates cannot touch each other.
3. Body panels may be skip welded back together if they are separating. (**NOT SEAM WELDED**) welds may not be any longer than 2" in length. Cannot add any extra metal.
4. All repairs will be inspected and anything outside of these guidelines will be not allowed to run. So if you have a question ask a tech official.
5. If you are running a pre ran truck and the frame has already been plated you will not be allowed to add any more plate, and the plate that you used must be to the repair rules listed above no exceptions.
6. You will be allowed to repair bent or broken tie rods with a piece of tubing.

MAKE SURE THAT YOUR CAR IS FINISHED BEFORE YOU COME THROUGH TECH (IE HAVE EVERYTHING BOLTED AND SECURED PROPERLY) THERE WILL BE A LIMITED NUMBER OF TIMES TO PASS TECH.