

Westshore Motorsports Park

Big Car Rules 2022

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.

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 from a vehicle 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 grass
6. All trailer hitches, related brackets, reinforments 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 interior door panels, center of the rear seat area is preferred.
3. Gastank must not be bolted to the frame. Gast 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 to run off
8. Electric fuel pumps are optional
9. You may use a propane tank as a fuel tank (gas only, no alcohol, nitrous or propane.
10. Gravity fed/ bottom fed fuel tanks allowed. Must have 1/4" shut off valve easily accessible vent hose must be looped above tank and secured through hole in the 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
2. Battery box must have a lid that covers the entire top of the box and must be securely fastened shut.

No ratchet straps or bungee cords or any type of duct tape will be allowed to fasten the 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 anything 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 driver's 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 $\frac{3}{4}$ " bolt or welded so that it cannot collapse. It must be held in place with a minimum of 2 $\frac{3}{8}$ " 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 support, and the headrest must be duct taped to the upright.

4. Both front doors must be reinforced with a minimum 8" wide, $\frac{3}{16}$ " 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 $\frac{3}{4}$ " 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" x $\frac{3}{16}$ " 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 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 must use inside door bars. They cannot exceed 6" in length and no more than 6" in front of the door seam. Material used: you may use channel iron 8" minimum $\frac{3}{16}$ " thickness or square tubing minimum of 4x4" or 2x6" or 2x8" $\frac{3}{16}$ " minimum thickness.

8. Halo Bars may not attach to the frame. If using halo bars, you must also incorporate an upright directly behind the drivers seat. Max height for protector 16" from the bottom of the protector. Halo style roll bar acceptable. May be bolted in a max of four spots with not larger than $\frac{1}{2}$ " bolt.

Seats and Seatbelts:

1. Four point harness is mandatory
2. Seat can be OEM stock of any make/model car (Honda Prelude/CRX seats not recommended)
3. Place a padded headrest on the upright behind the seat if the seat was not equipped with a headrest.
4. No fiberglass or plastic racing style seats will be allowed.

Building and Securing:

No welding other than where stated. No exceptions.

1. Bolting or chaining, if you bolt the doors shut you may use up to four ½" bolts per door. If you chain the doors shut you may use two chains no larger than 3/9" thick per door. You may weld doors hit 6" on 6" off if you choose to not bolt or chain. You can do one or the other, not both. Max size strapping is 2" wide, 1/8" thick band iron.
2. Hoods can be secured in a maximum of six places other than stock. Only two of these can be secured to the frame. Six spots can be ready rod bolts or chain.
 - Bolt size must be a minimum of ½" and maximum of 1" diameter. Bolts must not exceed 4" above the vehicle surface. Max plate size for washer is 6/6" diameter and no thicker than ¼"
 - Chains must be a minimum of 3/8" and maximum ½" welded type chain. A bolt no smaller than 3/8" and maximum ½" with washers must connect chain.
 - Hoods must open 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" x 6" in diameter and ¼" thick. All other bolts will be no larger than ½" in diameter with a max washer size of 2"
 - Chains must be a minimum of 3/8" and maximum of ½" welded type chain. A bolt no smaller than 3/8" and no larger than ½" with washers must connect the chain.

Body:

- Trunk lids may be tucked
- No body creasing
- Rear quarters must remain vertical
- Rear trunk lids and quarters may be dimpled to aid in bending up within reason

Bumpers:

Please note that the intention of this rule is to allow you to mount the bumpers in such a way that they are less likely to fall off. If at inspection, the officials determine that you have exceeded/overbuilt the intention of the rule you will be able to correct and compete. Like stated above, if you are not willing to correct your build, then you may be disqualified.

1. Any bumper may be used but must appear to be close to original passenger car stock and size.
2. No chrome may be welded to the body of the car if using compression style bumpers.
3. Non-compression bumpers may be welded to the exterior painted sheet metal only using up to 3" x 1/4" flat straps.
4. For the front and rear bumpers, you may not use more than two flat straps up to 3" x 1/4" x 36" long from top side of sheet metal or top of core support to bumper. You may also use #9 wire in place of straps.
 - a. Only the entire last 8" of each end of the strap may be welded.
 - b. Straps or #9 wire may not connect to each other.
 - c. If using #9 wire you may use up to 4 wraps of wire twisted same length.
 - d. #9 Wire or Straps may go over the All-thread.

Ways to mount the bumpers: You have 2 options for mounting the front or rear bumpers. Pick one, only!

1. Use the stock bumper bracket or brackets and shock tubes for that car in the exact location and manner they were intended to be in from the factory and weld the first 10" of them measuring from the back of the bumper. Do not add metal. You may not swap bumper brackets and or shock tubes/beams.
2. Remove ALL the factory brackets and shock tubes and in its place weld a 10" x 4" x 1/4" flat plate to the side of

the frame and weld it to the backside of the bumper. a. You may only square up the end of the frame to mount the bumper, do not shorten the frame. b. You may mount your bumper however you want within the first 6" of the frame. It may attach to the frame only. c. Frame rail must only be mounted to the exterior of the bumper. The frame may not be inside the bumper or be "shelved" 3. The maximum height of the front bumper is 22" from the bottom of the bumper to the ground, the minimum height of the rear bumper is 15" from the bottom of the bumper to the ground 5. Frames: 1. You cannot weld more than the first 10" of the front and rear frame/unibody rail seams. 2. You may only square up the end of the frame to mount the bumper, do not shorten the frame. 3. Frames/unibody may be notched or dimpled between the 2 rear frame mounts. Do not manipulate the frame anywhere else than where specified. a. All of the frame must be in factory location. b. Frame/unibody rust is to be handled on a case by case basis with officials. Send pictures and you will be told if you can fix it or not and how. 4. Impala frame horns that hold the shock tube are considered part of the frame. a. Frame horns may not be relocated or used on a non-impala car. b. Frame horns can be rewelded over the factory attachment points on an Impala. c. If you keep the shock tube in the frame horn, you may not use 10" x 4" x 1/4" flat plate. 5. No changing, welding, doubling or removing of the rear package tray 6. Chrysler Cordoba k-framed body mounts must remain stock. 7. Absolutely NO other cutting, tilting, welding, pinning, shaping, bending, adding to or altering the frame/unibody in any way other than what is specified. Y-Frame cars must run as originally configured.

After market derby parts able to be used (if not listed you can not use it)

- shifter
- slide drive shaft
- gas pedal
- trans cooler
- steering column

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 1" 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 the stock location
2. Radiator 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! Motor swaps are aloud. stock style motor mounts may be welded in when doing a swap but must be as close to stock as possible.
2. No motor plates DPs. Halos, aflcnnarket motor mounts. sliders, pinion brakes. reinforced rear ends. or HI} other alicrmarke(derby parts will be allowed. Up to techs discretion
3. Any 5 lug rear end may be used.
4. Leaf conversions are not allowed. Suspension must remain stock maximum of 9 leaf springs.
5. You my clamp leaf springs. 4 clamps per leaf 2"x ¼" max clamp size, 2-3/8" bolts per clamp. I 0. You may not weld suspension solid.
6. **ABSOLUTELY NO TRANSMISSION PROTECTORS WILL BE ALLOWED**
7. **03 AND NEWER CROWN VICS MUST USE THE STOCK ALUMINUM CRADLE AND SUSPENSION.**

Distributor Plates are Carburetor Protectors:

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

Exhaust:

1. Any stock exhaust is allowed
2. No stack protectors allowed
3. Stacks are 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 FASTENED DOWN)
THERE WILL BE A LIMITED NUMBER OF CHANCE TO PASS TECH ...**

