

# 2019 North Idaho State Fair Demo Derby Rules



No Imperials 1973 and prior

No frame swaps of any kind on any car

## Topic #1 Bumper Mounting

- The frame may be shortened from the front of the car to be able to hard nose the bumper to frame and mounting bracket. You cannot shorten more than 3" and must remain in front of core support in original location.
- Any car bumper may be used, and skins fully welded. No loaded or homemade bumpers.

## OPTION #1

- The car is allowed the factory brackets or shocks that came on the car.
- The **original** location. No stretching or relocating brackets. All brackets welded to frame, bumper hardnosed to frame and bracket.

## OPTION #2

- You may use a 4"x16" by 3/8" flat bar to mount the bumper. It can be welded 8" back from the frontside of the frontmost core support mount.
- It cannot be cut or manipulated in order to further brace the frame. The flat bar will be bent into the shape of an L and welded to the bumper. This can be welded to the top, bottom, or the sides of the frame. Not inside the frame. If you use this option, all other stock brackets must be removed.
- On Shock style GM cars, the pocket is part of the frame but the shock must be removed.

## Frame Welding:

- Firewall forward seam welding on the factory rail seam only. This is where the seam comes together to make the rail a box. No welding sheet metal seams or any other crossmember seams.

## Topic #2 BODY BOLTS AND MOUNTS

- You can alter the two body bolts at the core support to place all thread through the frame and up through the hood. 1" max on allthread
- You are also allowed two all thread in the rear of the car. You are allowed to have a 3-inch washer on top and bottom of the frame to secure the all thread to the frame.
- You may replace all body bolts with no bigger than a 5/8" bolt with no bigger than a 3" washer on the top side of the car.
- If you choose to remove factory bushings, you must have a 1" spacer to replace the bushing. NO welding the body to the frame.

## Topic #3 SUSPENSION

- All rear ends must be out of a passenger car.
- You may clamp shocks or place filler blocks in coil springs to adjust height. You may chain the humps with 3/8 chain in two locations.
- You may reinforce the tie rods with max 3/4" angle iron (no aftermarket rods) You may weld the front side of the a arms down with a 2"x6" strap 1/8" thick
- No leaf spring conversions

## **2019 North Idaho State Fair Demo Derby Rules**

- Max 9 leafs per pack and must be original car leafs.
- No shortening or strengthening trailing arms unless running a stock driveline
- If your car has a rear 3 link you may add a second top link by modifying a factory upper to fit the car. If I find it to be stronger than a factory in any way, I will not let it run. No Watts Link.
- You may have 3 additional to factory clamps per spring.
- Slider Drivelines are allowed
- Pinion Brakes are allowed
- You may have bracing that stops 12" from where the tube meets the center section, no axel savers, Aftermarket axels are allowed. If you run an 8-lug rear Diff it must have 3 lug nuts removed.

### **Topic #4 BODY WELDING**

- You can use filler up to 2-inch-wide and no thicker than 1/8 inch.
- Hoods may have six points of contact. No larger than 1" bolts for points of contact with no bigger than 6" plates.
- Trunks can be welded shut with equal spacing 1-1,2-2,3-3, ect..... Door seams can be welded solid. (outside only)
- There is to be no welding the body to the frame in any location. (no inner fenders, body mounts, ect...)
- You are allowed to have two straps from hood to bumper and trunk lid to bumper. These straps are to be no thicker than 1/4" and no wider than 2.5". They cannot be connected by more than 3" on either end to bumper and hood.

### **Topic #5 TIRES/WHEELS**

- Any pneumatic tire is allowed. No solid tires.
- 8" wheel centers allowed No lip protectors
- No bead protectors
- Stem protectors are allowed

### **Topic #6 ENGINE/TRANS MOUNTING**

- Lower cradles with pulley protectors and front plates are allowed. MAX 1/2" material. They must bolt in factory location or very close to it.
- No Distributor protectors at all Aluminum ultra-bells are allowed No trans braces
- No aftermarket tail housing NO factory cradle swaps.
- Homemade cross members are allowed with a max material size of 2"x2"- 1/8" wall. You may weld this to the frame. No extra added material of any kind. Cross member can never come into contact with any frame kicker. (caddies)

### **Topic #7 CAGES**

- Dash bars and rear cross bars are mandatory. A minimum of 3-inch material 1/4" thick wall must be used. There also must be door bars on each side of the car. A minimum of 6-inch material is to be used, but not to exceed 12 inches wide and 3 inches thick.
- One upright bar on driver's side is mandatory but two are allowed.
- At no point is the cage allowed to be welded or bolted to the frame. There are to be no braces/kickers running behind the rear crossbar located directly behind the driver.
- Please don't try silly things like bolting seats or battery boxes to the frame or its cross members.

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## Topic #8 WINDOW BARS/SCREEN

- Window bar is mandatory in the front. Material must be at least one inch. You may have up to two in front and two in the rear window. The two in the rear must not be mounted past the top trunk seam. Drivers window must have some form of protective mesh/screen.

## Topic #9 COOLERS

- Radiator must remain in original location.
- Transmission coolers may be used but must be fastened in a safe container and strapped or bolted down.
- High pressure line must be used. No fuel line for the transmission! No oil coolers allowed.

## Topic #10 BATTERY

- You may use up to two batteries as long as they are fastened and covered for safety.

## Topic #11 FUEL CELL

- The factory tanks must be removed from the vehicle. A replacement tank is to be mounted inside the vehicle and the max capacity is 6 gallons. The tank must be securely fastened. The tank must have a cover on it. NO plastic tanks!

## Topic #12 SHEETMETAL BOLTING AND PRE BENDIND

- You may have bolts with a 3/8-inch max for bolting sheet metal together. (ie. Fenders, hood bracing,)
- Hood-16 Fenders 8 each

## FRAME REPAIR

- Any pre ran may have four 4"x7" 1/8" thick plates welded anywhere on the frame they choose. Plates must remain 4x7. They cannot be cut or changed to stretch.....
- Fresh cars will be allowed to weld these plates on their cars after their heat race if they have time to do so.

## 1980 and newer cars seeking to run with big cars:

You may have an 18" long 4" wide hump plate following the frame not spanning the arch. 1/4" thick plate max

You may weld your hood down with 30" of weld. using 2" by 1/8 thick strapping in addition to the standard 6 pts of contact. (must have large enough hole in hood for inspection)

You may have two extra 3/4" body bolts anywhere you choose with a 3" washer on the inside of the body from the firewall back.

May use any car oem bumper shock or bracket to mount your bumper. It cannot run any further than 10 inches back from front of frame.

**Promoter reserves the right to make judgment calls on all builds. Do not weld or add anything unless stated in this set of rules otherwise you will probably have to cut or leave it on the trailer.**

IF YOU HAVE QUESTIONS CALL KYLE AT 208-290-3902

