

# 2021 Hardcore Compact Car Rules

Compact cars will consist of rear-wheel-drive cars **106" factory wheelbase** or smaller and any FWD cars EXCEPT for 1985 and older Eldorado, Tornado or Riviera's.

-No full frame cars

-No V8 cars permitted

-FWD cars must stay FWD

-RWD cars must stay RWD

-No AWD cars allowed

## **Preparation:**

1. All glass (including windshield, front and rear windows, loose glass that is broken or that is still around the window seals, head and taillights, light bulbs, etc.) **MUST BE REMOVED** prior to bringing the car to the track.
2. All exterior (chrome, trim, emblems, plastic grills, door handles, plastic bumper covers, spoilers and anything that's plastic or metal that will break and fall off onto the track) **MUST BE REMOVED** prior to bringing the car to the track.
3. All interior (carpet, moldings, seats except driver's seat, head liners, door panels, speakers, etc. and anything flammable) **MUST BE REMOVED**
4. Dashboard is optional. If it is left in, radio, ash tray, glove box and anything that can come loose. **MUST BE REMOVED.**
5. Car **MUST BE SWEEPED** clean from **ALL** debris, tools, tires and anything that doesn't belong **MUST BE REMOVED** before being teched or you will **NOT** pass!!!
6. **ALL CARS MUST HAVE A ROOF SIGN.**
7. All cars must have working brakes. Cars that do not have brakes will **NOT** run!!

## **Safety:**

1. DOT or Snell rated helmet is **MANDATORY.**
2. Eye protection is **MANDATORY.**
3. Long sleeves, pants and gloves are **MANDATORY** for driver safety.

4. Fire extinguisher is **HIGHLY RECOMMENDED** and **MUST BE** securely mounted within the drivers reach.
5. All fuel injected cars must have FI Rated Line (must say for fuel injection use on the line) and all fittings must be double clamped. Failure to have a proper line or be double clamped you **WILL NOT** run.
6. If your helmet comes off during the derby you **WILL BE** disqualified. Make sure that they are strapped on.

### **Tires and Wheels:**

1. Any air-filled tire is permitted. **AIR ONLY**.
  - a. NO liquid, foam, calcium, cement, etc. permitted
2. **Front wheel drive cars ONLY: Solid forklift tires may be used on the rear of the car.**
3. NO studded tires allowed
4. Must use any OEM wheel
  - a. NO screws, bead locks, rim guards, split rims, homemade wheels, etc. permitted.
5. A simple 8-inch multi pattern wheel center may be used with OEM wheel one 1/4 max center per wheel, **no gussets or anything to add strength**.
6. All wheel weights **MUST BE REMOVED**.

### **Interior:**

1. One battery MAX
  - a. Any battery permitted
  - b. Battery must be securely mounted in a metal battery box.
  - c. Or be mounted with 2 pieces of All thread and a metal strap over the top. **ABSOLUTELY NO** ratchet straps, bungees, 9 wire, muffler strapping, etc. allowed holding down the battery. **OFFICIAL DECISIONS ARE FINAL.**
2. Battery coverings are **HIGHLY RECOMMENDED** for the driver's safety.
3. Original factory fuel tank **MUST BE REMOVED** and replaced with a metal style fuel tank.
  - a. Fuel tank must be securely bolted to the floor or the gas tank protector. No ratchet straps, bungees, chain, 9 wire, etc. allowed.
  - b. No plastic fuel tanks will be permitted.

- c. Homemade fuel tanks can consist of boat tank, army can, or a heavy constructed tank **ONLY**. All tanks **MUST BE 100% leak proof and sealed**. If they are not you will **NOT** run.
- d. Fuel tank cover is **HIGHLY RECOMMENDED** for the driver's safety.
- e. All fuel lines must be securely mounted. Anywhere that a fuel line intersects metal, it must be doubled with a protective layer preventing it from being punctured.
- f. All fuel injected cars **MUST** run fuel injected lines and must be clearly marked (for fuel injected use) and all fitting must be double clamped.
- g. Any spilled fuel **MUST BE** cleaned out and evaporated before it will pass tech. **Any car that has a fuel leak during the derby will be shut down.**

### Cage:

1. It is **RECOMMENDED** but **NOT MANDATORY** for your safety that a 4-point cage to be placed in the driver's compartment. Cage bars are not to exceed **4x4x1/4** in size (**Anything larger will be cut down to correct size**). 4-point cage consists of:
  - a. 1 dash bar
  - b. 1 seat bar
  - c. 2 door bars
  - d. You are allowed four 6x6x1/4 mounting plates to attach the cage to the body (A pillars and B pillars **ONLY**).
  - e. Cage must be a minimum of 5 inches away from the fire wall and floor. Door bars **CANNOT** go past the rear kick panel on any car.
2. At a minimum a rear seat bar is **MANDATORY** and if the dash is removed a dash bar is **MANDATORY**. Seat bar **MUST** attach to the B post. It **CANNOT** attach to the inner door skins!!
3. Rollover bar is **HIGHLY RECOMMENDED**. Must attach to the seat bar or door bars (**NOT BOTH**) and consist of 2 bars that run straight up and a cross bar to attach them together. (NO angled rollover bars will be allowed or **kickers off of rollover bar**.)
4. Front window bar is **MANDATORY**. Must consist of tubing, pipe, flat bar. 2-inch max in size. No chain, 9 wire, bed frame or etc. will be permitted. (This is for driver's safety.)
  - a. Front window bar may be bolted or welded to the sheet metal. Can attach on the roof and on the cowl. Must be within 6 inches of the window opening.
5. **A rear window bar is PERMITTED. 2x2x1/4 tubing and a 6x6x1/4 mounting plate max. It can only attach 6 inches onto the roof (measured from rear window opening) and 6 inches**

onto the speaker deck/trunk. (Must split seam 3 inches on speaker deck and 3 inches on trunk lid ONLY) Abuse it and Loose it.

- a. Wagons **ARE NOT PERMITTED** a rear window bar.
6. Gas tank protector can consist of a 3-bar design. 2 bars off your seat bar and one across the rear. Gas tank protector **CANNOT** be any wider than 24 inches outside to outside. **MUST HAVE A 3 INCH GAP FROM ALL SHEET METAL (package tray, floor, rear end, etc).** This is **NOT** to add strength to your car it is to give you a place to mount your tank securely! It can have a backing to it but no higher than the fuel tank that's mounted to it. **Backing MUST run straight up and CAN NOT be angled toward the speaker deck. REMEMBER THIS IS NOT TO STRENGTHEN YOUR CAR IN ANY WAY.**
7. No down bars or kickers of any kind allowed.

### **Frame/Subframe:**

1. No welding on frames or seam welding permitted. All subframes and frames **MUST** remain factory stock unless stated in the rules.
2. If a repair needs to be made it **MUST BE APPROVED** by the Compact Head Official (Jonathan Hileman).
3. All body mounts (bolts, rubbers, washers, spacers) **MUST REMAIN** factory stock and in factory location.
4. Sub swaps are permitted. **MUST REMAIN** GM to GM, Ford to Ford, etc. All factory body mounts **MUST BE USED** in the factory way (must use factory rubbers, bolts, cones, etc.).

### **Body:**

1. Doors can be secured shut in **THREE PLACES PER SEAM** by welding, bolting, 9 wire, 1inch banding or chaining (3/8 max). If welding you can use 3x3x1/4 max. Plates **MUST HAVE** a 2-inch gap in between plates.
2. Body creasing will be permitted **BUT** limited to the rear quarter panels **ONLY**. **MAX 2** lines per quarter panel.
3. No strengthening the body of the car unless stated.
4. Four ½ inch hood bolts max. **CANNOT** attach to the frame or subframe.
5. Trunk lid **MUST** remain in factory location or can be removed. Trunk lid can be shortened or tucked. Can be secured in 3 spots per seam by either welding 3x3x1/4 max plates, 1-inch banding, 9 wire, bolting or chaining (3/8 max). If using the 3x3x1/4 plates, the plates **CANNOT** touch. **MUST** have a 2-inch gap in between. If you shorten your trunk lid or tuck your trunk lid you **CANNOT** attach it to the floor in any way. **MAY ONLY** attach to the quarters and speaker deck.

6. Door handles **MUST BE REMOVED**.
7. 10-inch inspection hole **MUST BE** placed in the trunk lid.
8. 12-inch inspection hole **MUST BE** placed in the hood in case a fire occurs and all excess sheet metal **MUST BE REMOVED**. Hood and trunk lids MAY have 6 3/8's bolts MAX around the inspection hole.
9. Wheel wells may be trimmed for tire clearance. But they **CANNOT** be rolled over to create a doubling affect or be bolted back together.

### **Suspension:**

1. Factory OEM suspension. No reinforcing or strengthening of components will be permitted. **MUST BE FACTORY** for the car that you are using.
2. You MAY weld or lock your suspension solid by either welding the strut stem or clamping the strut stem. You **CANNOT** add any metal to make your suspension solid!!!
3. If you chain your suspension it **CANNOT** be welded, bolted or attached to the body or frame of the car. It **CANNOT** add strength to any suspension parts.

### **Driveline:**

1. Any 4 cylinder or 6-cylinder engine allowed. NO V8's.
2. Aftermarket shifters, pedals, steering columns are permitted.
3. No tranny, oil or fuel coolers permitted.
4. Upper motor mounts can be changed out with 2x2 tubing MAX.
5. No engine cradles allowed. A simple carb protector that bolts to the motor is permitted (for drivers' safety cannot strengthen the car in anyway).
6. Motor mounts **MUST BE** factory rubber mounts only. You can use chain (one link welded or bolted to frame and one link welded or bolted to the motor) standard 3/8 MAX to help secure the motor in the car (one chain per side). This **CANNOT** add strength to the car in any way.
7. Headers are permitted. No header protectors allowed. Headers must point straight up in the air.

### **Bumpers:**

1. Any OEM car bumpers permitted. **NO** extra metal can be added. Seam welded bumpers are **PERMITTED** (Outer seams **ONLY**). No welding of inner seams. Ends of bumper may

be capped with 1/8-inch MAX. **MUST** have a 2-inch inspection hole on each end of the bumper.

- a. SMW, DEC, etc. bumpers permitted. Bumpers **CANNOT** be heavier than 3/16 material. (No custom bumpers)
2. Tubing bumper permitted. 1 piece of tubing MAX. Bumper can consist of 1 piece of 4x4x1/4 or smaller tubing or 2x6x1/4 or smaller tubing. **NO METAL ADDED. MAX THICKNESS** on tubing bumpers is 1/4 of an inch or less. Anything found to be heavier **WILL NOT** be allowed to run. Tubing bumpers must remain flat. You cannot cut and form your bumper into a point!!
3. Front frame rails **MAYBE** shortened to the front side of the core support. The core support **MUST REMAIN** in the factory location. It **CAN NOT** be moved, removed, etc. (If it has been moved, removed, etc. you **WILL NOT BE ALLOWED TO RUN**. Officials decision is **FINAL!**)
4. No swapping bumper shocks allowed.
5. You can weld or bolt the bumper on only where factory metal or bumper shock touches the bumper.

## OR

6. You can hard nose the bumper to the frame rail. You are permitted to use a 6x6x1/4 max plate to mount your bumper. This is to give you a flat surface to mount your bumper to.
7. You can use 1 loop of chain (standard 3/8 max) or 9 wire to help secure your bumper on. You are permitted to weld or bolt 2 links to the frame and 2 links to the bumper only.
8. You can use one 4x4x1/4 square plate to help hold your bumper on. One plate per side. Plate **CANNOT** be altered in anyway. Your 4x4x1/4 square plate **MUST** attach to your bumper. If it does not attach to your bumper, you will have to remove the whole thing.
9. Bumpers **CAN NOT** be cut and formed around frame rails. Bumpers **MUST** mount to the end of the frame rails **ONLY**.

## Repairs:

1. You're allowed (4) 3x3x1/4 square repair plates on pre-run cars. Repair plates must be stitched welded with a 1 inch on 1 inch off stitch pattern. Must prove damage if you're using repair plates. If your car needs an extra repair plate. It must be approved by the head compact inspector.
  - a. Repair plates **WILL ONLY** be used on bent or damaged cars. Pre run cars **WILL NOT** be harder than fresh cars.
2. Cars can be re-stubbed and clipped if need be. All repairs must be butt welded with no overlap and **DONE** in factory way.

3. All repairs must be done with OEM parts in factory manner.
4. Unlimited 9 wire is allowed for cars that ran heats and need to make repairs for feature **ONLY**. All one-shot feature cars can only have 9 wire in 4 spots. 2 loops per spot max. (pre ran cars only).
5. Any questions on repairing, contact Compact Official (Jonathan Hileman).

**General:**

1. Officials have the right to drill, scope, etc. as they need too.
2. Officials have the right to re-inspect any car before, during and after the event.
3. Any car found to be cheated will not receive any prize money or trophies.
4. All drivers **MUST** attend the drivers meeting.
5. Drivers **ONLY** allowed in the inspection area while the cars are being inspected.
6. Cars that have failed tech get 1 re-inspection. All cars that need a 2<sup>nd</sup> re-inspection must wait until all the cars go through their initial inspection before they get their 2<sup>nd</sup> re-inspection.
7. Bring torches!!!
8. Any car found to have added any metal to the frame, body, suspension, bumper (or your tubing bumper to be heavier than ¼) **WILL NOT** be able to run and you **WILL NOT** have a chance to fix it!!!!

**Any questions regarding the rules, please contact the  
Compact Head Inspector Jonathan Hileman (724) 812-6839.**

**\*\*\*NOTE: All cars will be required a fuel cell and battery box in 2022\*\*\***