

## 2022 Midsize rules

Please remember we expect a lot of cars and people perceive rules different and there may be some cars built a various ways. These are guidelines to follow. We will use our experience and discretion to keep all cars on a level playing field. Not everybody builds the same but any deliberate breaking of rules or pushing of the rules will just get your car inspected harder!!

1. Must be powered by four or six cylinder engine
2. Wheelbase must be 111 inches or less fwd or 108 rwd. No full frame cars NO EXCEPTIONS!
  - A. NO moving/bending a stock or aftermarket component to shorten wheel base.
3. No four-wheel drive vehicles.
4. **MANDATORY!** All four/six cylinder cars must have a cage. Bar behind seat minimum. Must be thick walled pipe or tube. No exhaust tubing or thinner material. Safety is priority. 4pt cage is recommended
5. Stock gas tank **MUST** be removed. A METAL BOAT TANK OR HOMEMADE METAL TANK must be mounted in rear seat area and bolted down with metal straps. NO PLASTIC TANKS!!!
  - A. Battery and gas tank must be tight when coming through inspection line or you won't be inspected.
6. All lines under car must be steel lines or if running rubber lines they must be inside of the car.
7. No aftermarket or homemade extreme cradle/pullet protector

### ALL JUDGES DECISIONS ARE FINAL

1. Cars previously run in Demolition Derby may install new front clip. Any clip may be used on any car, **MUST** be installed in stock manner. Officials **MUST** approve installation.
2. All glass, side windows, rear windows, headlights and taillights, must be removed before reaching racetrack. Rolling down windows is not permitted. . Remove all glass mirrors and plastic. Remove all decking in wagons. Vehicles must be swept clean of all debris
3. Rear seat of sedan must be removed, top and bottom. On station wagons all seats and decking must be removed. Station wagons must be emptied to floorboards. All cars must be swept clean, both drivers compartment and trunk. No spare tires, broken glass, or trash, etc., allowed in cars.
4. Cars must have a seatbelt and working brakes. **MANDATORY!!**
5. You can carry a fire extinguisher, but it must be mounted securely and free of movement.
6. Battery may be moved, but must be securely fastened and covered in passenger compartment. **MAXIMUM OF TWO AUTOMOBILE TYPE BATTERIES ALLOWED.** Battery and gas tank must be tight when coming through inspection line or you won't be inspected.
7. Any type automotive radiator may be used but must be mounted in stock position.
  - A. Front rad protector must be stock type condenser or up to a 1/4 plate or mesh material. Only bolted on with 4 3/8 bolts or 4 1" welds max. Must be in front of radiator
8. Fenders may be bolted together with 3/8 inch bolts or smaller with 3/8 inch or smaller washers only. A maximum of 5 bolts per fender.

9. All doors may be welded (Outside of body only), chained or wired. Straps cannot be larger than ¼" thick and 3 inches wide on door shell (vertical) and 2 inches wide on window frame. You may beat top of doors down and may tack them in three places with a maximum of 1" weld each. Driver's door may be welded solid. Rest of doors 5" on 5" off. Can also have a 1/4 door plate for driver protection

10. No doubling of body panels allowed, no added metal allowed.

11. Patching floorboards, if you have to patch rusty floorboards you must cut out all the rust, overlap no more than 1" with same thickness as body material and sheet metal screws – no more than one every 4". No Welding to floorboards or firewall.

12. You may crease/enhance sheet metal body panels but do not fold and weld. No extra metal may be added.

13. NO OTHER BODY WELDS OTHER THAN WHAT IS LISTED ABOVE. THIS INCLUDES BODY SEAMS ANYWHERE ON THE CAR.

14. Unlimited 9 wire

## **HOODS AND TRUNKS**

MUST BE OPEN AT INSPECTION! So don't come to inspection line with hood bolted down....

### **HOODS:**

1. Must have two (2) holes, at least four (4) inches in diameter on each side of carburetor – Not directly on top of carburetor. IF HOOD IS REMOVED, EITHER FAN BLADE MUST BE REMOVED OR FAN BELT MUST BE CUT.

2. On all cars, hoods, trunks, and tailgates may be secured with the following method: on front of car, two pieces of 1 inch all thread, NO SLEEVING, can remove rubber mounts bolt front two k member bolts solid no larger than six (6) inches O.D. and 3/8 inch thick, all threads MUST be mounted outboard of the radiator. In addition to all threads, 4 pieces of Angle iron that cannot be more than 3/16 thick or longer than 6 inches. Or 1 inch rod. Can be welded to strut tower 4" of weld max. So it would make it Two on each side of car, Total of 4 bolts or rods and 2 up front all threads holding the hood down or 9 wire. 6 total spots. Unlimited 9 wire can be used after inspection.

### **TRUNK:**

2 pieces of 1 inch all thread, with a washer no larger than six (6) inches O.D. and 3/8 inch thick, all thread may be mounted through deck lid and frame anywhere on frame. Do not angle rod to gain extra welding surface area. Unlimited 9 wire in this area also. Must have a 12" hole in trunk lid. Seams can also be welded 5" on 5" off

You may have rear window bar 2"X2"X1/4" MAX. IN SIZE, 6" max. on roof 4"X4"X1/4" FLAT PLATE TO ATTACH TO THIS BAR TOP AND BOTTOM and must be centered on front side drip rail on trunk no further back or forward (2" on each side). Weld to the strapping on your trunk. There must be 6" minimum distance (gap) from the top of this bar on the roof and halo bar.... This is the only location allowed for this bar.

### **BODY MOUNTS:**

1. All body mount bolts may be replaced with 1/2 inch O.D. bolts with a stamped washer. Do not take them out and place body on frame. If replaced, a gap of 1" minimum is mandatory between body and frame. Do NOT crush factory body bushings. All all-threads MUST have nut on top and bottom and NO welds. Front two can be replaced up to 1" and bolted solid.

4. A minimum of one chain or wire running from the outside (top) of roof down to the cowl or BAR DOWN TO DASH BAR OF CAGE on the front window is MANDATORY for safety. Maximum of two. 2. IF USING METAL STRAPS MAX. SIZE 2" WIDE X 1/4" THICK, CAN GO TO FRONT DASH BAR OR COWL THEN TO TOP LIP AREA OF WINDSHIELD ONLY.

### **CAGE AND HALO BARS:**

1. All driver and passenger doors may be reinforced. You should have a six (6)-point cage, MINIMUM OF A 4PT. CAGE. Cross bars may be ran as follows, one across dash, one behind front seats, you maybe have a gas tank protector no wider than 24" and must be at least 6" off floor. Do not extend into trunk area. Can have loop on gas tank protector and cannot be within 4" of rear window bar at the start of the show.

2. You can run four (4) down tubes, two (2) per side. These down tubes must mounted within the front door area and no farther than 12" behind seat bar.

### **FRAME**

1. DO NOT REWELD ENGINE CROSS MEMBER SEAMS OR ANY OTHER BRACKETS ATTACHED TO FRAME OR SHEET METAL under hood or trunk. NO CONCRETE!!! DO NOT WELD FACTORY HOLES UP; ALL FACTORY HOLES MUST BE OPEN FOR INSPECTION OF FRAME.

2. You cannot alter frame in any way other than specified in rules. Do not crease or reshape frame.

3. You may run one (1) wire or chain from frame rail to frame rail underneath back of car behind back tires/wheels.

4. You may put a bolt with a stamped flat washer thru frame to hold it together. Only one (1) per wheel opening must be loose during inspection. DO NOT weld washer. (Pinning of frame)

5. You may have four 4x6" plates 1/4 thick patch plates anywhere you like. Must be painted bright color so it's visible. If you cut the plates the cut piece cannot be used anywhere else. What you cut you lose.

### **BUMPERS:**

1. Any OEM or Homemade bumper is permitted, no extreme points!! Nothing more than what a Chrysler pointy would be. If it's too much we will make you cut it. NO GUSSETS OR BRACING. NOT TO EXTEND BEHIND OEM MOUNTING BOLT LOCATION ON FRAME. May use 2 1/2" max. Round or square tubing. No thicker than 1/4 inch. No solid stock may be used. This can only extend into the frame a max. Of 6" to mount bumper. Will be drilled at 6 1/4" measured from the front edge of the frame on every car. You may use two (2) pieces of 4x4 1/4 plate to aid in putting bumper on. Fenders and bumper ends may be trimmed to allow for wheel clearance.

### **SUSPENSION**

1. Stiffness of suspension will be left up to the discretion of the driver. No homemade struts. Must be OEM. Can clamp, weld, or use threaded rod up to 3/4" to get the ride height. Don't get carried away doing this!! Like everything else if we feel excessive it will be cut!!

2. Homemade tie rods and homemade steering shaft are allowed.

#### ENGINE AND TRANSMISSION

1. ANY 4 and 6 cylinder ENGINE OR TRANSMISSION MAY BE USED IN ANY CAR, BUT MUST BE MOUNTED IN A STOCK POSITION.

2. Chained, welded, or homemade motor mounts will be permitted, but must meet approval of officials. You can have two chains on each side of motor down to sub frame with one link max welded to frame. Anything more will be cut.

3. Any type of header is allowed, but must be directed away from driver compartment. Header Protector must be bolted or welded to the header. No large plates or oversized tubes to extended protection area!!

4. Transmission oil coolers are permitted Inspection personnel must approve all mountings, lines, and fittings.

6. No carburetor protector outside the intake area

7. You may beat flat the engine side of the firewall only, do not weld or bolt firewall. Do not re-enforce the firewall/cowl. Do not beat, paint, bolt, weld on, weld to or modify the driver's side of the firewall/cowl in any way

#### GAS TANKS

Battery and gas tank must be tight when coming through inspection line or you won't be inspected.

1. Stock gas tank MUST be removed. A METAL BOAT TANK OR HOMEMADE METAL TANK must be mounted in rear seat area and bolted down with metal straps. Other types of installations will not be allowed. NO GAS CANS with hoses duct taped. A Marine (boat) tank or an official approved homemade tank is mandatory. All tanks MUST be covered with a rubber cover. All tanks MUST have secure cap. All lines and fittings MUST be leak proof and meet approval of Officials. Electric fuel pumps are permitted but MUST have shut-off within reach of driver. NO MORE THAN ten (10) GALLONS OF GAS IN TANK.

2. **NO PLASTIC TANKS**, unless in a metal box ¼" minimum. All sides except top side. This also goes for if you're using a metal boat tank.

3. Mounted in center of the back side area.

FOR THE MINI-CAR DERBY CLASS, YOU WILL NO LONGER BE ABLE TO MOVE THE STOCK GAS TANK INTO THE BACK SEAT AREA.

#### TIRES

1. Only sixteen (16) inch or smaller tires and wheels will be allowed. Bead locks and solid rims are ok just must be safe. If it's deemed not safe it will be removed.

2. Valve stem protectors, liquid in tires permitted or screws in rims to hold tires in place