

2021 Demolition Derby - Mini Cars Rules

Paoli Chamber of Commerce and T&E Promotions

Basic Rules

1. Any front wheel drive car with a wheelbase no bigger than 110 inches.
2. Any rear-wheel-drive car with a wheelbase no bigger than 105 inches.
3. No 4WD vehicles, and no AMC's.
4. Motor swaps are allowed but no added material to make that swap possible (read cradle rules in frame section).
5. Car must be clean of trash. Bumper covers, headlights, and taillights (bulbs included) must be removed.
6. You may run a shifter, gas, or brake pedals and oil/trans cooler.
 - a. No added strength to the body and frame or it will be removed.
7. Drivers must have a valid driver's license or be 16 with a parent's signature.
8. Drivers must have helmet and eye protection.
9. **PLEASE TAKE TIME** to secure your gas tank and battery. If you cannot, you will not run.
10. No car will be run that is leaking fuel!!!!
11. You must run a seat belt.
12. Judges' decisions are **final**.

Cage

13. You can have a 4-point cage. Door bars are to be no bigger than 2x8. Front and rear bars are to be no bigger than 4x4. Tank protector is to be no bigger than 2.5x2.5.
14. Your door bars must be no further back than 10 inches from the door post. This applies to back seat bar as well.
15. Tank protector is to be no wider than 24 inches. You may have an upright on each side of it with two bars going directly forward covering the sides of the tank (don't get crazy with these or they will be cut out).
 - a. No it cannot go into the trunk area, it must be a minimum of 3 inches away from the rear window bar fresh or pre ran - it doesn't matter.
16. **NO KICKERS OR DOWN LEGS ANYWHERE!!**
 - a. Do not use your steering column as one either!

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17. Door bars, dash bar, rear bar and tank protector must be 4 inches away from and floor pan or anything to strengthen the car. The only thing that can be against the sheet metal is the back of the tank protector. Do not weld, bolt, or pin it to anything.
- If your batteries, steering column, trans cooler or anything acts as a kicker/pin/gusset it will be removed.
18. Roll bar must go straight up and over. You may bolt it with 2-½ bolts to the roof only, no bigger than a 4x4 plate for those mounting spots, no bigger than 2x6 on the roll bar.

Body

19. You may crease any outer panel on the body but **NO WEDGE CARS!** Pre-bending is ok, but don't get crazy!
20. Doors and trunk can be welded every 6 inches and then skip 6 inches (3x1/8 material) but the driver's door can be welded solid and a door plate if desired.
- a. Door plate can overlap the front fender and rear door 3 inches and is to be no thicker than 3/16 material.
 - b. If you are scared of getting hit in the door, we're giving you permission to plate the entire door!
21. 10x10 holes must be cut in the trunk lid if we cannot see in it.
22. To mount the hood you can have (4) 3 inch long pieces of 2x2 angle welded to the fenders with a ½ bolt through it to hold the hood down.
- a. If you'd rather use bolts you can have 6 locations with 5/8 bolts holding it down.
 - b. **IT MUST** be a factory mini car hood.
 - c. 10 3/8 bolts max in the hood.
23. The Windscreen bar is to be no bigger than 2x2 tubing or 3 inch 3/8 flat bar. It may not be used as any kind of kicker or lock anything to the cage, or it will be cut out.
24. Rear bar can be 2x2-1/4 tubing or 3-inch wide 3/8 flat bar. It cannot go to the roll bar no matter how you do it or try to configure it. 4 inches welded to the roof. It has to go at the rear window area in the center of the car.
- a. No cutting a hole in the roof and running it through.

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- b. It also must mount at the speaker deck trunk lid area in the center of the car. You may have a 5x5 ¼ plate for it to set on and weld to. If you cut the speaker deck out and move the trunk back it still doesn't matter, has to be where the factory location is. If it isn't, it will be removed!!
 - c. Keep it away from the tank protector as well.
25. You can have a center bar for shifter or accessories, but it must meet the same rules as all other cage components.
26. No wire, straps, cable, or anything from cage to body.

Frame/Bumpers

27. No frame creasing or frame manipulating. This applies to sub frame as well.
28. You may have (4) 3x3 patch plates anywhere you want them, any way you want them, but they cannot be used as a kicker or to tie into the cage in any way.
29. You may cut the crush point out of the car, car can be cut back to the core support but no further.
- a. **DO NOT ALTER / BUILD OR RE-ENFORCE** the core support. If it's junk, I need pictures. but it will be very minimal on what material you may use to repair it with.
30. No seam welding of any kind on the frame or body.
31. Rust repair - I must get detailed pictures and it will be minimal.
32. At your core support, you can change that body mount out with 3/4 all thread that can go through the hood and bumper shock if you choose for it to.
33. You may have a 10-inch bumper shock no bigger than 2x2 square tubing or round stock. It can be on the inside or outside or the frame, just no bigger than 10 inches! 1 piece, 1 way but do not try to do both or it's automatic disqualification.
34. No pins or plating the frame or it will be an AUTOMATIC DISQUALIFICATION!
35. You may have a piece of tubing 2x2 *NO BIGGER THAN* 2 inches welded to the side of the frame for your strut to rest on *HOWEVER* no patch plate can touch this piece of tubing.
- a. It must be at least 2 inches away or it will be removed completely!!
36. If you choose to run the factory shock it must be for that year, make and model car. You can only weld the first 10 inches of it, no bolting it.
37. Remember your bumper shock starts at the back of your bumper!!!
38. I will add bumper pictures to better explain how it needs to be built.

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39. No bolting through any of the front subframe, the only ones you can even change are the front 2 at the core support.
40. **FRONT** bumpers are to be no bigger than 4x8 tubing, and no smaller than 4x4 and have no bigger than a 8 inch point measuring from the back side and with a 30 inch spread .
- a. The ends must be capped and no sharp points. DEC, amish, dixon, brian's machine, smith style bumpers are all ok.
 - b. ALL HOME-MADE BUMPERS MUST BE SQUARE.
41. **REAR** bumpers - can have a piece of tubing no smaller than 2x4-3/16 and no bigger than 4x6-3/16 (smaller or bigger will be cut off!).
- a. Cap the ends and make sure it is not a safety concern.
 - b. **THIS WILL BE HIGHLY CHECKED!!!**
42. Bumpers can have a 5x5-1/4 mounting pad welded to the end of the frame for the bumper to be welded to.

Suspension / Drivetrain

43. You may run home-made struts.
44. Any wheel and tire combo.
- a. If running foam is filled and it becomes an issue you may have to be disqualified.
45. You may reinforce your tie rods.
46. Leaf spring cars must run factory leaves and factory shackles and clamps.
47. You may run a braced rear end, but no solid axles. The rear end brace must be 4 inches away from any of the body or frame components. (Fresh or Pre-ran)
48. Trailing arms must remain stock other than the lower two going forward. These can be no bigger than 2x2 on those.
49. If you are running a rear wheel drive, you may run solid shocks in the rear for ride height. 3/4 inch all thread is fine.
- a. Only RWD cars can have a piece of 2x2 - 3 inches long welded to the bottom of the frame to mount the sway bar. Sway bars can be bolted solid to the lower-a-frame - **NOT WELDED!** (If you push the sizes you will cut).
50. Only RWD cars can have a lower cradle and pulley pro, it must have a 2-inch gap before the derby starts and cannot be altered or anything added at the derby or it will be an automatic disqualification! Lower cradle can be no wider than the engine block, no back

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plates, steel bells or anything like that LOWER CRADLE AND PP only! Cradle cannot add strength to the frame in any way!

51. Engine mounts can be aftermarket no bigger than 3x3 pads for RWD and no bigger than 2x2 tubing for the FWD cars. If it is made to strengthen the car, it will be cut off.
52. You may convert and car to carb
53. No header pro, valve cover pro or any other kind of protectors added to the engine.
54. Radiators must remain in factory location, no added coolers.