

BOX BUTTE COUNTY DEMO DERBY

REVISED 2021

DISCLAIMER TO CAR BUILDERS AND DRIVERS: IF IT DOES NOT SAY YOU CAN DO IT WITHIN THESE RULES, DO NOT DO IT. ALL CARS FOUND TO BE ILLEGAL WILL NEED TO BE CORRECT TO PASS OFFICIALS INSPECTION, CARS THAT DO NOT PASS INSPECTION WILL NOT RUN.

Demolition Derby Full Size Car Rules

TYPE OF CAR

1. Any American made stock, hard top automobile or station wagon is allowed. No trucks, convertibles, jeeps, hearses, limousines, or ambulances are allowed. No pre1974 Imperials allowed.
2. The definition of stock as we consider it is as follows. Modification of vehicles body, frame, or bumpers by adding steel, pipe, or other foreign materials to the car to assure greater strength is not permitted except that which is listed and permitted within these rules.

MANDATORY RULES OF CAR

3. All glass must be removed from the car. That means All Glass!! This includes:
 - a. Fiber glass.
 - b. Windshields
 - c. Rear Windows
 - d. Side windows
 - e. Mirrors
 - f. Headlights
 - g. Taillights, bulbs and lenses
 - h. Turning lights, bulbs and lenses
 - i. Back up lights, bulbs and lenses
 - j. Items e-h includes all brackets and assemblies that hold these in place
 - k. All flammable materials MUST be removed
4. All chrome molding strips and molding clips must be removed from the car. This includes the following:
 - a. Hood
 - b. Fenders
 - c. Sides of the vehicle
 - d. Trunk lid

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5. The following items must be removed from the passenger compartment and trunk area:
 - a. The Rear seat
 - b. The headliner
 - c. All inside door panels and window mechanisms inside doors.
 - d. Glass and door handles on all doors.
6. All taillights and gauge wire must be cut or removed.
7. The original gas tank must be removed and a metal or plastic six gallon maximum capacity tank must be securely fastened in front of the rear axle, inside the car. It must not leak and must be properly ventilated. (Boat tanks are highly recommended). Regular, unleaded, diesel, and aviation fuel will be the only fuels allowed to be used. No exotic fuels. All tanks must be covered with a non-absorbent cover such as a mud flap or inner tube. This is to prevent fuel splashing on the driver. *(All Tanks must be made of metal or must be completely surrounded by metal. NO EXCEPTIONS)*
8. Batteries must be moved to the passenger side front floor and securely fastened and covered. Any and all batteries are allowed. No more than 2 allowed.
 - a. A white rag is required on the positive cable wire close to the battery. (This rule may change depending upon the choice of the fire department and the judges the day of the derby)
9. All cars must have air cleaners.
10. Auxiliary water systems are not allowed. The original or an automobile radiator must be left in its original location. You may remove the fan if desired.
11. All cars will be numbered on both sides in contrasting colors. Numbers must be at least 12" in height. A three sided roof sign is required with the number of the car on all three sides. No Flags on Cars.
11. Anytime chain links are welded together, it will be considered strapping.
12. ALL DRIVERS DOORS MUST BE PAINTED **ORANGE** FOR IDENTIFICATION PURPOSES. All Orange cars are suggested to paint their door Yellow.

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13. Frame Welding

- a. Re-welding factory welds on a car frame will be allowed. Adding Material is not allowed unless specified in these rules
- b. Homemade motor mounts, transmission mounts and rear end mounts will be allowed to be welded to the frame. These mounts may not be strategically placed as to strengthen the frame. Maximum size material 2" wide 3/8" thick.
- c. Welding frames for repairs of cracked or broken frame rail will be allowed but you need authorization from the judges before welding on the frame. This will be at the judge's discretion.
- d. A 1" spacer must be placed between the frame and the body if you choose to take out the stock body mounts. The only place on any car that this does not apply is between the radiator support and the frame. Spacers should be similar in diameter to originals if they need to be replaced.
- e. The only foreign material allowed to be added to the frame is 4" piece of angle iron 1" x 1" 1/8" thick that may be used to tie down the motor. This piece of material may be no more than 4" behind the back of the motor and not more than 4" in front of the motor. A maximum of 4 mounts will be allowed.
- f. **NO TIPPING OF THE FRAME, THIS GOES FOR OLD AND NEW IRON!**

TRUNKS

14. The entire outer trunk seam only may be welded, bolted, strapped, or chained shut. (pick two):
 - a. If Welded: The entire trunk lid may be welded and filler rod may be used in the gaps to achieve a bead as long as it is used as filler only. This will be at the judge's discretion. *Trunk May NOT be welded to the bumper.*
 - b. If bolted: It may not be in more than four (4) locations and maximum size material to be used will not exceed 1" diameter ready rod. Washer plate size must not exceed 4"x4". Angle iron welded to fender and to the trunk lid with bolts through them will not exceed 1"x 1"x 1/8"-6" long in four (4) locations with more than two bolts through each piece of angle iron.
 - c. If Strapped: It may be strapped from the trunk lid to the rear bumper in only two (2) locations and the maximum size of the materials to be used will not exceed 2" wide, 3/8" thick and no longer than it takes to reach from the bumper to the trunk to be attached. d. If Chained: No more than two (2) single strand wraps will be allowed from bumper to the trunk. If the chain links are welded then the chain will be considered strapping.

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HOODS

15. The entire hood may be bolted, strapped or chained down. Hood must be accessible to open for judges inspections. (Pick Two)
 - a. If Bolted: It may not be bolted in more than six (6) locations and the maximum size material to be used will not exceed 1" ready rod, washer plate size must not exceed 4"x4". Angle iron welded to the fender and to the hood lid with bolts through them will not exceed 1"x1"x1/8"-6" long in four locations with no more than two bolts through each piece of angle iron. No bolting of material will be allowed to be placed directly in front of the radiator for the purpose of protecting the radiator.
 - b. If Strapped: It may be strapped from hood to front bumper in only two (2) locations and the maximum size material used will not exceed 2" wide 3/8" thick and no longer than it takes to reach from the bumper to the hood to be attached. No strapping material will be allowed to be placed directly in front of the radiator for the purpose of protecting the radiator.
 - c. If Chained: No more than (2) single strand wraps will be allowed from the bumper to the hood. If the chain links are welded then the chain will be considered strapping. No chains will be allowed to be placed directly in front of the radiator.

16. All hoods must be left in their original stock location.

17. All hoods bolted, strapped, or chained will have two (2) fire extinguisher holes in the hood, one on each side of the carburetor, a minimum size of six (6) inches in diameter. The hood must have an open area in case of fire. No exceptions: This rule will be enforced.

18. **No cutting the hood open and then welding the metal over to the fenders or in front of the radiator. Material may be folded and bolted but not welded. Absolutely NO welding on HOOD OF CAR is ALLOWED.**

19. You must have a minimum of two braces from the dash area to the roof to prevent the hood from being forced into the car.

DOORS

20. All outer seams may be welded, strapped, or chained shut. (Pick Two)

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21. All cars **must** have a bar on the inside from the center door post to the center post. This brace may have a 6" minimum to a 16" maximum plate on the end to weld or bolt to the door post.
- a. The driver's door may be reinforced on the inside and the outside of the car. The inside of the door may be padded if DESIRED. The only restriction to this rule, at present is, NO GRADER BLADES ON OUTSIDE OR INSIDE OF DRIVERS DOOR.
 - i. Protection bar on the outside of driver's door may extend 6" past the door seam toward the front and rear of car. Please taper ends of bar so as not to tear skins on other cars. This will be enforced.
 - ii. Any bar located in front of the driver for the purpose of reinforcing the driver's door may,
 - b. Extend from driver's side door diagonally to the passenger side frame.
 - c. Extend from driver's side door, parallel to the floor and not exceed 12 inches past the center of the car before it angles directly to the passenger side frame.
 - d. May extend from door post to door post in front of driver.
 - e. May be welded inside driver's door only.
 - f. **A bar may be added on the passenger side from the front to the rear protection bar.**

ONLY ONE OPTION OF FRONT DOOR POST REINFORCEMENT MAY BE USED. BAR IN FRONT OF DRIVER MUST NOT EXCEED 4" AND PLATES USED ON THE ENDS OF THE BAR MUST NOT EXCEED 8".

SUSPENSION

22. **No Modification** to the front and rear suspensions are allowed:
- a. All Shackles lift kits, and blocks and trailer hitches must be removed.
 - b. No welded or modified shocks.
 - c. All air shock lines must be cut. Air shocks may not have air in them!
 - d. No more than a total of 8 leaf spring clips will be allowed on a car.
 - i. A maximum of (2) in front and (2) behind the rear differential on each side.
 - ii. These clips must be similar in size to the original if not the original stock clips.
 - e. The rear differential must sit on top of the leaf springs.
23. **Exceptions.**
- a. Chains will be allowed to make repairs if, and only if, a ball joint has been broken.

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- b. You will be allowed to chain the rear-end to the body or frame.
- c. ANY CAR WITH REAR COIL SPRING SUSPENSION MAY BE CONVERTED TO A LEAF SPRING SUSPENSION. This conversion must occur with minimal alteration to the cars frame.
- d. No welding on leaf springs will be allowed.
- e. Cars may have no more than 9 leaf springs.
- f. Cars must have CAR leaf springs and must ride at STOCK HEIGHT.
- g. Aluminum Suspension parts may be swapped for steel OEM car parts.
- h. You can use after-market tie rod ends

BUMPERS

- 24. Any bumper off of any car may be swapped, but must be left in stock location. Bumper may be welded to the bracket and the bracket to the frame with no foreign material allowed other than welding rod. No cutting bumper brackets and then lapping them together for greater strength. Homemade bumper mounts made of 3/8" metal may attach to bumper 4" and can be bolted or welded up to 4" on frame. Shock absorbers may be collapsed and welded. You may weld the outer seam of the chrome to the inner part of the bumper as long as no foreign material is used. No reversing bumpers. You may weld a 6" piece of chain to the bumper to frame to keep bumper from falling off.
 - You can use 5x5x1/4" Straight - Square tubing for a bumper. It can't be capped, beveled, formed, pointed, or altered in any way.

TIRES

- 25. Any tire with any tread. **NO** studded tires or long bar/short bar tires on drive tires of car. This means **NO** skid steer, rod weeder, or tractor type tires.
- 26. You may protect valve *stems* on wheels.

OTHER ALLOWED PREPARATIONS

- 27. A car may have the engines, rear-ends, and transmissions swapped, but they must be left in their original stock locations. No truck rear-ends with free floating axles allowed. ---NEW IRON CARES---spacers for clips must NOT be welded to the frame or the radiator support. You may use a 3in. MAX diameter pipe for this

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spacer. This MUST be “free floating” between the radiator support and the frame.

28. All fenders may be cut and rolled to prevent tire wear and 6ea of a 3/8 bolt may be used to hold inner and outer fender together. A Maximum of a USS washer is allowed on either side of the bolt. No welding of fenders is allowed. This goes for interior and exterior of fenders.
29. A gas tank protector built around the tank off of the back seat bar will be allowed.
30. You can use a halo to protect your distributor.

REPAIR OF CAR

31. Car body or any sheet metal must be of same thickness of original material and may not be double skinned for repair. If there is an existing hole a patch may be made to cover the hole plus 2 inches around the diameter of the hole. (Example: If you have a 2 inch hole you may use a 4 inch patch.) *No stitch welding of folded sheet metal will be allowed. This is up to the judge's discretion.*
32. Car Frame may be repaired. Material used may be no thicker than 1/8" and must hang below or to the side of the frame for judges to tell thickness. No welding behind patch is allowed. All cars found with welding will cut this section of the frame before running if found to be welded other than patch to frame. 2 sides allowed. Frame repair is limited to 18" per frame rail TOTAL!!!

NEW IRON CHANGES (1980 and Newer):

33. You can put in a brace to support your crush box of 1/2" x3x8 flat Iron.
34. You can tie cage to frame with 1" bolts in the cradle in two locations.
35. Engine cradle can only be bolted in with 3/8" flat iron. No welding.

All contestants in the Demolition Derby are independent contractors. Box Butte County Fair or their representatives, reserve the right to approve or reject any and all entries. Box Butte Fair and anyone involved in promoting or participation in the event will not be held responsible for any car, parts, or personal property before, during, or after the event. All cars not removed by midnight, the night of the show, will become property of the Box Butte County Fair and the venue owners.