

BOX BUTTE COUNTY DEMO DERBY

REVISED 2022

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 Truck Rules

- BATTERY must be removed from stock position and installed inside passenger compartment. It must be bolted securely to the floor with large bolts, nuts, and washers. The battery must be secured over the top with a metal strap, original gas tank strap or stronger material. No wire, ratchet straps, bungee cords or sheet metal screws allowed to secure battery. These are only used to secure the cover over the battery. The battery must be covered with a non-flammable material. Any bolts to secure battery must be 3/8" to 1" and washers 1" to 5"x 5". This also pertains to gas tank, transmission cooler and driver's seat --- all of these may be welded in also.
- BRACE BARS must be a 2"- 6" square or round metal bar, 1/8" thick placed directly behind the driver's seat with a minimum of 6"x 6" metal plate. The plate must be at least 1/8" thick and attached to the ends of brace bar and secured to truck by bolting or welding to the heaviest door post. It is mandatory to have a dash bar and two bars connecting from dash bar along both inside front doors to bar behind seat. A roll cage may be installed inside cab, but not under the hood and may be secured to the frame. A roll loop in the box up against the cab is MANDATORY with kickers that go to a bar between the box sides at the floor of the box in front of the wheel wells not to be attached to the frame. There is no limit on brace bars as long as they are for safety. No added metal in, on or between frame anywhere.
- TRUCK NUMBERS AND SIGN must be placed on the roof of the truck no smaller than 15"x 15" and must be able to be read from both sides. The passenger and driver's front doors must have number at least 18" tall. Both the sign and the doors must have a light background with dark colored number for easy visibility.
- TRUCK PREPARATION it is mandatory that all glass be removed. Broken glass, dirt and loose debris must be cleared from the truck. Do not break the door windows and leave the glass in the door. The rear seats and interior must be removed. Headlights, tail lights, tail lenses, dash, chrome trim, interior and exterior door handles, lock cylinders, license plate brackets, mud flaps and trailer hitches must be removed prior to admittance to the track. You may have a floor shifter and hand throttle.

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- DRIVER'S DOOR optional a maximum of 12" wide and maximum of ½" thick plate, 6" past door seam to brace outside of driver's door. The plate must conform to door and not stick out. No grader blades allowed anywhere.
 - FIREWALL any holes in firewall must be covered with a non-flammable material to prevent competitor from being sprayed by hot oil or water.
 - GAS TANK The original tank must be removed and a leak proof fuel cell or boat tank must be mounted in the center of the box bed behind the cab between the frame rails for regular cab trucks. Ext cabs and SUV models may be in pass compartment behind drivers seat. No 5 gallon gas cans allowed. A plastic tank must be in a 1/8" metal box around all six sides with a minimum of two ½ " drain holes in bottom of box for protection. The tan must be secured over the top with a chain, original gas tank strap or stronger material. Regular cab trucks must cut 8" hole in box to run fuel lines through and no fuel lines in cab, all lines must be along frame rail to prevent lines from rupture. Ext cabs and SUV models, fuel lines may pass through cab. No bungee cords, ratchet straps, sheet metal screws, or wire allowed to secure gas tank. These may only be used to secure the cover over tank. The gas tank, electric fuel pump and all fuel lines must be covered with a non-flammable material. Electric fuel pumps must be hooked up to your ignition switch, so when truck shuts off the fuel pump shuts off. There is a 6 gallon fuel limit.
 - TRANSMISSION AND ENGINE OIL COOLERS also must be placed in a metal box or have a shield to protect against ruptures and spraying of hot oil on driver. Regular cab trucks must bolt coolers in box between frame rails behind the cab, coolerlines must be covered and go under cab. Ext cab and SUV models may be installed in passenger compartment only if coolers and all lines are covered or shielded from the driver, with a non-flammable material(including braided lines).
 - WINDSHIELD BARS must be welded or bolted on truck, to protect driver (3/8" bolts, nuts, and washers minimum). Two bars from the top of the windshield to the dash area, one must be in center of windshield and the other between the first bar and the drivers side. Bars must be a minimum of 5/8" diameter or strap 1" wide 1/8" thick.
1. ANY full size ½, ¾, or 1 ton LT Truck, SUV, Suburban or van may compete. No compact truck, foreign truck, or passenger cars allowed. 4x4's may compete with the front drive shaft removed.

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2. BUMPERS must be an automotive or LT truck bumper and bumper brackets in any position may be used front or rear. You may reinforce bumpers on the inside of the bumper. All support must be inside besides (2) 8"x8" 3/8" mounting plates. The bumper chrome must remain the stock shape, but you may have metal put inside for reinforcement. You may trim bumper ends or fold them around. Welding the bumper skins (chrome to inner liner) is allowed. No welding bumper to the body in any fashion! Bumper height not to exceed 28" to the bottom of the bumper to the ground and must be a minimum of 16" from the ground to the bottom of the bumper or the frame whichever is lower. You may manufacture a homemade bumper it must conform to the following size limits. It can be no larger than 8"x8". The point must taper over an area of at least 32" Overall, the bumper cannot exceed 12" wide at the tip of the point. The point may only extend out 4" from the flat part of the bumper. The bumper must be completely in front of the frame rails. No part of the bumper may extend back past the front most part of the frame rails. All trucks must have bumper on front and rear. Two 4" wide 1/4" thick straps may be welded vertically from rear bumper to tailgate, weld 5" on bumper and 5" on tailgate. Two 4" wide 1/4" thick 8" long straps may be welded horizontally on front and rear bumpers. Rear bumper welded from bottom of tailgate to the bumper. Front bumper welded from bumper to radiator support. Front and rear bumper may have wire in 4 locations, 4 strands from front bumper to radiator support and rear bumper to tailgate. Bumper brackets and bumper may be welded solid. Bumpers must be stock height, all models may raise front to level with rear, but if it looks too high it will have to be lowered or not run per judges discretion.
3. CAB AND BOX MOUNTS may be removed. Body bolts may be replaced with a minimum of 5/8" bolt and a maximum of 1" bolts. Four additional bolts must be added from cab to frame, and four bolts from box to frame or a minimum of 8 extra bolts to hold cab and box or body on. Washers 1/4" thick 6"x6" on top and 3"x3" on bottom must be added. Washer to hold cab and box to frame may not touch each other must be separate plates.
4. ENGINE and transmission of choice may be used. Motor mounts may be welded, chained, or cables and added solid engine mounts okay as long as it is not reinforcing the frame.

ENGINE/TRANSMISSION PROTECTORS

- Full Engine Cradles are allowed but must be fastened/welded in the factory position (Engine saddle/Lower Sub Frame) Engine Cradles are not allowed to attach to the uni-body rails. Distributor Protectors are allowed but must remain a minimum of 6" from the dash bar at all times. Transmission Bracing is allowed but must follow & conform to the Full Size Limited Weld Rules

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5. EXTRA REINFORCEMENTS No wire, sheet metal screws, chains, cables, bolts, or added metal unless specified in rules, JUST WELD IT.
6. FENDERS front and rear may be rolled, and welded OR bolted with no added metal.
7. FRAME may not be reinforced, and no filling in holes in frame. The cab may be welded to the frame and box to the frame and all riveted frame brackets. The very front 20" of frame and very back 8" of frame may be reinforced with 3/8" thick flat strap no taller than the factory frame. No connecting the frame rails to each other with added metal. Frame may be repaired if broken. Use the same thickness of metal as frame to repair or just weld it. If patches are excessive in any way they will be cut at judges discretion.
8. HOOD must remain in factory position. The front two hood bolts must go through the front radiator support mount and frame with no spacer, all other hood bolts must be welded to body only. Hood may be welded solid with 3/8 " filler rod, or must be bolted or chained in a minimum of 4 locations and a maximum of 8 locations. A 5"x 5" 1/2 " thick washer must be used on top of hood bolts, to keep bolts from pulling through. The bolts must be minimum of 5/8" or maximum of 1", (bolts must not be directly in front of the radiator), or minimum of 4 chains 3/8" thick. There must be one 12" hole cut in hood for fires and the tin may be bolted or welded around each hole.
9. RADIATOR must remain in stock position. Radiator blow by tubes must be secured and remain pointing down at all times. No extra cooling allowed for radiators. Original or electric fans okay and ratchet straps may be used to secure radiator. Cooling fans must be covered by hood or removed. Top of radiator support may have one piece of angle iron 2"x2" 1/4 " thick from fender to fender, and two 2"x2" 1/4 " angle iron or square tube from radiator support to top of the frame in front of control arm/A-frame. Air conditioning condenser may be welded to front of radiator support.
10. REAR END and front end must not be larger than 1-ton LT truck. Rear end only may be reinforced and hybrid rear ends allowed. No reinforcements on front axle. The rear end may be tied to the frame in two locations with 3/8" cable or chain. Leaf spring trucks must have a 2" stagger, and no double main leaves. A maximum of 11 leaf springs on rear axle and 5 leafs on front axle. A total of 3 spring helper clamps in front of axle and 3 rear of axle on front and rear leafs. Clamps must only be 2" wide 5" long and 1/4 " thick. The leaf spring mounts may be welded to the frame front, and rear.
11. SHOCKS may be welded solid.

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12. STEERING tie rod ends must be stock, the center section of tie rods may be reinforced. Steering columns may be welded in and altered to prevent steering loss. All suspension components must remain stock and may not be reinforced. A-arms may be welded or bolted to the frame to raise front end and prevent them from falling off.
13. TAILGATE must be chained, bolted or welded securely to box or removed. You may drop tailgate to the bumper and weld solid.
14. TIRES any ply with a maximum of 31" height. Tire inside a tire, tubes, solid tires, implement tread tires, valve stem protectors, and grease on tires are all okay. No water or other ballast in tires, studded tires, dual tires on rear, split rims, paddle rims, or reinforced rims. All wheel weights must be removed.
15. WELDING All cab and box seams interior and exterior may be welded. The cab and box may be welded together, and use a fill material to fill in the gap between the cab and box. Doors and tailgate may be welded with metal no more than 3" wide maximum. If doors and tailgate are not welded, they must be bolted, or chained with same size bolts or chains as hood, in a minimum of 2 locations per door or tailgate for safety. Tops of doors may be beat down and welded with no added metal. Rust holes or metal tears may be patched. Use a Maximum of 1 layer of stock metal to patch rust or tear use only enough metal to patch hole or tear or just weld it. If you have a wooden box floor only use the same thickness of metal to replace floor as what would be in a metal box floor or you will have to cut holes in the metal.
16. FRAME REPAIR's will be allowed you can have a maximum of 24"x1/4"x height of the frame to repair bent or broken frames per frame rail, this 24" can be spread out in 6 locations maximum per rail (you would be allowed (6) 4" long pieces of plate to repair the frame) or it can be one piece 24" long, (2) pieces 12" long, ETC.

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.