

Dunn County Fair Demo Derby

Specific Rules for 1980s Full-Size Cars

(In addition to the General Rules)

CONTACT INFORMATION

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- No reinforcement of any part of the vehicle or materials in the trunk will be allowed. No filling frame with any type of material. May weld top frame seam A-arms forward, ½" wide bead, 1 pass, no adding any metal. No other frame seam welding allowed.
- You may pre-bend your frame, cut and pitch frame and weld cut area but NOT to add any extra steel to the area that's been cut. You may notch the frame.
- Original "VIN" tag should be in place.
- Bumpers on newer model cars with impact bumpers may be welded to the piston. Piston "holder" may be welded to frame. As an alternative, you may weld bumpers directly to frame, no added iron. You may weld a ¼" x 2" x 6" strap from the bumper to the frame to help keep the bumpers on the car. This must remain in one piece, and may be welded on the top or side of the frame, but cannot be angled to the corner of the bumper to form a kicker. Two straps front bumper, two straps rear bumper.
- Bumper seams may be welded. Automotive bumpers may be reinforced but only between the bumper mounting shocks, nothing protruding on the front side of the bumper.
- No welding allowed on trunk lids or hoods. Hoods and trunks must be bolted or chained. Six chains or bolts per hood and four per trunk. The front two chains or bolts in the hood may attach to the frame, the balance to sheet metal. Only two of the bolts or chains in the trunk area may attach to the frame. If using bolts, washers to be a maximum of ¼" x 4" x 4". Bolts not to exceed 1" in diameter, must run vertical, and no more than 6" of weld on both sides of rod where attached to frame. Chains to be 5/16" single loop. You may replace two of the hood bolts or chains by welding 2" angle iron stock (maximum 4" long) on fender and hood, then bolting the two angle iron pieces together. One bolt per "connection", maximum bolt size is 3/8" x 3".
- A rear window bar may be installed and run from the roof and connect to the rear deck by using a ¼" x 4" x 8" plate. Plate can be laid over front trunk seam and plate can be bolted or welded in place.
- A 14" square hole must be cut in the hood for fires. You may install up to 12 – 3/8" bolts or self-tapping screw per hood cut out. Maximum of 3 cutouts. Maximum washer size is 1" diameter. Cutout may be for header clearance, air breather clearance, or radiator fill opening only.
- Trunk lids must remain 50% in stock location. The trunk lid must remain on the hinges. Trunk must have a 12" minimum hole in the trunk lid for inspection purposes.
- Station wagon tailgates may be secured by four lengths of wire or chain not to exceed 30" in length or welded with 4 patches (1/4" x 4" x 4"). In the rear compartment of wagon, two 1" bolts may go from the frame to the roof. No more than 6" of weld on each side of bolt where it connects to frame and washers on roof not to exceed ¼" x 4" x 4".
- "Sedagon's" are allowed and you may bolt the roof down with two bolts to floor sheet metal only. You must leave a minimum 4" space/clearance between the floor and collapsed roof.
- Radiators must be in the original position in the car. No auxiliary coolers allowed. Radi boxes are allowed in place of radiator. They must be supported in the same manner as existing radiator. Cars with radi boxes can have (2) ¼" x 2" x 4" strap going vertical, welded to the core support to help support radi box. Strap to be welded to core support, not frame.
- If using the original radiator, a radi-guard may be used. This would consist of a ¼" plate in front of the radiator, no larger than the radiator, and either bolted to the core support with (8) 3/8" bolts or welded to core support in 4 spots with welds no more than 6" each. Do not weld to frame.
- Engine and motor mounts. Stock motor mounts may be strengthened so long as it does not strengthen frame.
- Engine cradles are permitted but must only be used to cradle the engine block. Cradle cannot strengthen the frame.
- Distributor protector allowed but may only be 1" above the distributor cap, must be no more than 12" wide on back side, and must be a minimum of 6" away from dash bar at the beginning of the event.
- Body bolts may be replaced with up to 5/8" bolts. Washers not to exceed ¼" x 4" x 4". Washers not to be welded to the floor or frame.
- Tires – rim size of 15" or smaller. Rubber tires, no studs, no split rims. Valve protectors allowed. Tire in tire ok.
- Bumper height- maximum bumper height is 22" measured from the ground to the bottom of the bumper.
- Preferred stack height above hood is 12", may have 24" maximum. All stacks to be secure. Turn-outs allowed but must not present a safety concern for other drivers or cars.

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- Suspension- "stiffening" of suspension is allowed. A-Arms can be chained or bolted down, one chain or bolt per side, or welded down only with one 1"X3" vertical strap per side. You may strengthen tie rods. You may strengthen original control arms. 6 leaf is maximum for leaf cars. May use 4 clamps around each set of leaf springs per side. Leaf springs must have factory spec type stager. No leaf conversions.
- You may chain rear humps to axle. Chain may not exceed 36" in length, 5/16" single loop.
- Driver door netting will be allowed: ¼" x 1" material. If using steel, mesh shall not be welded more than 2" above and below window opening. Fiber mesh is also allowed.
- Windshield bars, can connect to roof and firewall cowl area, not to hood.
- Two safety bars will be allowed to be installed in the car. One in the dash area and one back of the driver's seat. They may be bolted or welded in place and not be larger than 4" in diameter. A plate on each end no larger than 1/4" x 6" x 6" will be used to secure the dash bar and a ¼' x 6" x 12" plate to secure the seat bar. Seat bar cannot be further than 12" from the back of driver's seat.
- Drivers and passenger interior door bars are allowed, maximum length of 60". You may weld them from your dash bar to the rear seat bar only. May have (4) down legs vertically to floor tin only. Do not go over board or you will be asked to cut welds.
- You may weld or bolt a roll over bar to your seat bar. Your roll over bar must run vertical and only attach to your seat bar and NOT attach to your frame, no type of kickers off your roll bar.
- You may also have an "exterior" door bar on the drivers and front passenger door. Material for exterior door bar not to exceed 3/8" x 6" and may not extend further than 4" past driver's door seams. Door bar not to exceed ½" out from body.
- Doors may be chained or welded with patches. You are allowed four patches or chains per door. Patches shall not exceed ¼" x 4" x 4". Chains to be a 5/16" single loop, 24" long maximum. Driver's door maybe welded shut using no larger than 2" strap material or by placing a small rod in seams and welding. If driver's door is welded shut, no chains or patches on driver's door.
- A gas tank "protector" is allowed in cars. May be welded off of rear seat bar and go back in passenger compartment to rear seat tin behind gas tank. May contact rear seat tin and be no wider than 30" where contacts rear seat tin. No kickers to floor tin or frame.
- Transmission coolers are allowed, but they must be safely secured in such a way to prevent injury. Metal or braided cooler lines must be used.
- Transmission cross member may be replaced with a ¼"x2"x2" steel tube and connected to frame with no more than a 6" long ¼"x2"x2" angle iron.
- Transmission braces are allowed. Transmission bracing is only allowed to strengthen the housing of the transmission, not act as a kicker and strengthen the car. There must be at least a 2-inch space from the transmission cross member and the transmission protector components. Must have a minimum of 5" of clearance between the dash bar and bell housing/protector.
- Allowable Plating for Pre-run Cars: Three ¼" x 4"x4" plates per frame rail. May only plate 1 side of frame per bend/tear area. Must have 2" gap between plates.
- Rear differentials- 5 lug maximum. "Slider" drive shaft permitted.
- 2003 Fords and newer may replace the aluminum cradle with a steel cradle from a like vintage '80-2002 car. Replacement cradle must be bolted in. No mounting plate or component may extend more than 2 inch in front of or behind the cradle bolts. No pinning of frame. To mount steering box, you may weld a tube to the top and bottom of frame. Do not weld excessively, do not pin frame to mount the steering box.
- "Fresh" and pre-ran 1980-2002 cars will be allowed to weld two, ¼"x4"x4" patches per frame rail, you pick location. So, if you are running a 1980-2002 fresh car, you get 2-1/4"x2"x4" patches. If you are running a pre-ran 1980-2002, you would get the 2 "free" patches and up to 3 additional for repairs per frame rail.