

Pana Tri-County Fair Demo Derby
2025 Limited Weld RULES
NEW RULES IN RED

This class is open to all men and women 16 and over. 16 and 17 year old must have a notarized permit signed by parent/guardian. In fairness to all, the following rules and regulations shall prevail.

PARTICIPANT REGULATIONS

Driver may move forward or backward. Driver must make contact every 60 seconds or be disqualified. No sandbagging. If you sandbag the race will be stopped and driver given a warning.. No team driving allowed not even on a sandbagger. Cars must move when hit or show visible damage. No driver's door hits allowed.

PREPARATION OF CARS

This class will be limited to any year cars. No screws allowed. NO PLASTIC GAS TANKS (heavy duty plastic racing fuel cells are allowed). No wedging, no sedagons, no jeeps, no trucks (ranchero and el Caminos are considered trucks), no carryalls, no Hearst, no limos, no convertibles. No 1973 or older sub or full frame imperials. No 1970 or older suicide lincolns or T-Birds. All glass, chrome, pot metal, lights, carpet, headliner, back seats, fiberglass and anything else that is flammable must be removed before reaching the exhibit area (do not break glass down in the doors). Trunks must be empty of all debris, spare tire rims, parts, etc. Wagons must have spare tire flap removed or a hole cut in it for inspectors to see. ABSOLUTELY NO welding besides what is stated in these rules. UNLIMITED 9-WIRE. 9 wire may go to the cage or halo bar. You must have a number on both front doors big enough to read and bright enough color to see. Also must have number on roof with name on roof above front doors. Use your choice of number. No profanity allowed on cars.

SAFETY RULES AND REGULATIONS

1. Cars must have at least one bar no more than 2. No bigger than 2 inches wide by ¼" thick or ¾ chain or 9 wire attached from roof down to dash area to prevent hood from coming in. No more than 4" on roof and 4" on the dash. May be bolted or welded. Rear window bars are not allowed. 2. Radiator overflow hoses must be pointed at the ground and fastened so they cannot shoot water towards officials or other drivers. 3. Header pipes must be pointing straight up and cannot be aimed towards the front of cars. 4. Note if you have a hole in the fire wall it should be covered. 5. Safety belts required. 6. D.O.T. approved helmets mandatory. Any driver using an open face helmet will not be covered by insurance if facial injury occurs. 7. Safety glasses or shield recommended. 8. Mandatory-you must wear long pants and a shirt (fire suit recommended). 9. 2 fires and you are out unless it's a fuel fire then it's just 1 fire and you are out. 10. No alcoholic beverages or drugs allowed in the pit area or on the track. 11. NO PIT PERSONS ALLOWED ON THE TRACK. 12. Note management does have the right to disqualify a car/driver at any time. Any person on track or causing trouble and not complying with the rules will be asked to leave (we can have you escorted off or have you arrested and you can be banned from running or being in the pit area at any future Demos). 13. Protests must be made no later than 5 minutes after the heat in question. No protests will be taken after the feature event. Only Drivers are allowed to protest a car.

ENGINE

May use any engine and transmission. You may use lower engine cradle with front head plate only for the sole purpose of protecting the engine block. No mid plates allowed. Must only come in contact with motor mounts. The motor mounts are the only thing that can touch the frame. 03 and newer must keep the factory aluminum engine cradle. 03 and new lower engine cradle can only bolt to the 4 bolt holes in the aluminum cradle not the 4 bolts on the frame. May use a Grey Area style cradle and use ½" bolts and ½" SAE washers to bolt cradle to aluminum cradle. No DP's. **My have a pulley protector.or sway bar but not both..** You may use 2 chains to retain engine one on each side. No more than two links can be welded to frame. 03 and new engine chain must go to the lower cradle only. You will be allowed a plate under your motor mount to space your engine up if necessary. ½" thick, 4"x6" flat plate max. If applicable an extension off the back of the factory engine cradle only will be allowed, ¼" flat steel only, 8"x8" max. (Cadillac's, old iron fords, etc..) You may use header pipes. **May have header protectors welded or bolted to header tubes only.** No metal fabricated fan shrouds. May use plastic or cardboard,

RADIATORS/ CORE SUPPORT

Radiators may be removed but not relocated. You may use (2) 6"x3" x 1/8" flat strap with (4) pieces of 3/8 threaded rod to hold radiator in. Strap may be bolted or welded to top of core support. Do not move core support. Must be in stock location. May have factory a/c condenser or 1/8" expanded metal in front of the radiator. Can be bolted in with (4) 3/8 bolts and SAE washers. **Core support spacers can only be 6" tall and free floating.** You may shorten core support with no added metal. 03 and newer may scab on the lower core support section of a 80 to 02 passenger car core support with (2) 3/8 bolts per side or weld together with no added metal. Core support can not be welded to the frame.

TRANSMISSION / CROSSMEMBER

Transmission coolers are allowed. May have a stock oem crossmember or 2x2 tubing. If using tubing it must be straight. You may weld a piece of 2x3 angle iron 4 inches long on the inside of the frame to mount the crossmember on. Crossmember must be completely bolted or welded to this angle. **Aftermarket bell allowed, (steel or aluminum)** bolted on with pump bolts only, NO added supports, no welding to the case, Braces or mid plates not allowed. No aftermarket tail housings. You may plate the bottom side of your pan but nothing between the pan and the trans case. **If running a stock factory case bellhousing, you will be allowed a skeleton transmission brace or conformed type brace attached through the bell housing bolts and the tail shaft housing bolts. See picture at bottom of rules for clarification. This in no way can be connected to or in contact with the crossmember in any shape or form it must just sit on top of crossmember and able to slide or connected to the body in any shape or form. The brace on the tail shaft may not extend below the tail shaft housing. If you run a aftermarket bell housing or tranny brace the trans tunnel must have 5 slices in it at least 6" long.**

BATTERY

Must be in a secure position and be covered with something non flammable like rubber tube, rubber floor mat, etc. Batteries must be secured so they don't move. 2 12v batteries max. Battery box must be at least 2 inches away from the crush box. And not excessive in size.

SUSPENSION / A Arms

Must remain stock. No weld on shocks, no trailer hitches, special lifts, blocks, air shackles, air shocks, air lifts must be deflated. A Arms may be bolted, chained, wired down or welded with a max 2" strap with no more than 2" welded on the spring pocket only. Must be straight up and down . 2 straps per a arm. Ball joints may be changed but must bolt in. Ball joint may have (4) 1 inch welds instead of bolts but not both. No excessive welds or you will cut the welds. Spring spacers are okay. Leaf Springs must be stock with 2-inch stagger. May have a maximum 4- leaf spring clamps per side. Clamp material maximum thickness of 1/4 inch and no wider than 1 1/2. May reinforce the center of tie rods or use aftermarket tie rods but must have factory tie rod ends. No Heim joint ends. Suspension parts may be changed as long as OEM parts are used that bolts on with no welding. No truck extra lift spindles.

REAR ENDS

Any 5 lug or 8 lug rear end may be used. Locking of rear ends permitted. Axle savers, pinion breaks, bracing of rear end is ok. Braces may not touch the frame at any time. 80's and newer watts conversions are allowed. Upper trailing arm brackets 6"x12" plate max must bolt in only to the package tray and not the body, Lower brackets must be (1) piece of 3x3x3 box tubing per side cut to a c channel. Must be bolted or welded to the inboard of the frame. If doing watts conversion all factory watts trailing arms and brackets must be cut off.

DRIVE SHAFTS

May be shortened or lengthened or you may use slip drive shaft.

TRAILING ARMS

May be shortened or lengthened with no more than 2" overlap. No other reinforcement.

STEERING COLUMN/BRAKES/SHIFTER

You may change the steering column. No hydro steer. 03 and newer must use the factory rack and pinion, no steering box conversions. Brakes must work. You may have aftermarket shifter and pedals. Plate for pedals can not be excessive in size and not reinforce the car in anyway.

HOOD

Hood must remain in factory position. 6 hood bolts allowed only 2 may go through the frame outside of the radiator. Bolts must not be any bigger than 3/4 with washers no bigger than 6 inches outside diameter. Can have a 4" tall or less core support spacer free floating between core support and stock frame mount. You must have 2 holes cut in the hood big enough for fire extinguisher. Not directly over carburetor. You may use 20 bolts total around header holes and seams no bigger than SAE 3/8 with washers no bigger than 1 inch outside diameter.

TRUNK

You can use 4 3/4 bolts in trunk and 2 may be welded vertically to side of frame with no more than 4" of weld or go through frame with washers no bigger than 6 inches outside diameter. Trunk lids must remain 100% in stock location on factory hinges. Speaker deck must remain in stock position Tucking of trunk lid is allowed, You may chain or nine wire. NO MORE THAN 50% OF TRUNK MAY BE TUCKED OR REMOVED. You may weld 5 on 5 off with a 2 inch wide straps or use 3/8 bolts in the same manner.

BODY

No seam welding, no patching. Pre-denting is okay. You can body crease front fenders along with rear quarters. Rear quarters and tail light lance area attachment points must remain vertical straight up and in factory position.

FENDERS

Fenders may be trimmed and 10 bolts may be used per fender. Bolts are to be no bigger than 3/8 with washers no bigger than 1 inch outside diameter.

BODY MOUNT BOLTS

Must be factory. Bushings must be factory or hockey pucks. You may change up to 6 factory body bolts to 3/4" and use (2) 3x3 washers and (2) nuts per bolt. All nuts and washers must be up inside the frame not the bottom side. Core support all thread counts for 2 of those locations. If any other body bolts are broken or missing they can be replaced with 9 wire or 7/16 bolts.

FRAME

Absolutely no welding on frame except where stated in these rules.. No reinforcing of frame what so ever. You can notch the frame. PATCHING OF FRAMES Fresh cars-can have (2) patch plates 4x6. Preran cars you can use (6)-4x6x1/4 plates TOTAL to be placed in any location. Plates must have at least a 4" gap between them. No painting on frames. If frame has been painted, we will NOT inspect it. Front frame rails may be shortened up to 1" in front of the core support mount front weld. You may cold tilt or weld tilt. 14 inches of weld to tilt with no added metal. Anything Excessive you will cut. 3 and newer can NOT tilt. You may beet in the sides of the rear humps from front of arch to rear of arch only. 80's and newer GM ONLY may have a 4x14" hump plate. 1 per rail. Must be in the center of the hump and follow the contour of the frame. If re- stubbing a car must be pre ran car. Must restub with same make and model. If you do it in front of the boxes it must be butt welded. If re-stubbed behind boxes there can be 2" overlap. If you have to cut anything off the frame all material will be cut off. Only thing allowed to be left is the weld.

DOORS

Both front doors may be welded solid with a strap no bigger than 3 inches, on the outside only. All other doors you may weld 5 on 5 off with a strap no bigger than 3 inches. Or you may chain or wire doors shut. On wagon tailgates NO WELDING. You may chain or nine wire in four places.

CAGE

You may have a 6 point cage with two side bars and three cross bars. The side bars cannot extend past the dash area in the front and must be no further back than 2 inches in front of rear inner fender wells. This can be welded in. Absolutely no kickers. You may have a halo bar. You can have 4 down tubes to the flat top side of the frame. Can have two on each side in between the front inner door and rear inner door seems only, Material for this must not be bigger than 6". Must be 6" away from any body mounts. Halo cannot connect to the windshield bars or the roof sign. Gas tank holder or 3rd cross bar must be at least 4" away from the package tray. No part of the cage can be past the package tray. Front cross bar must be at least 4" away from the fire wall and trans tunnel.

BUMPERS

You may use any stock bumper. You may load your bumper. Skin may be welded down. OEM replica bumper ok. Must be stock appearing. Chrysler replica point can not be more than 14" measured from the mounting surface to the tip and must be 32" wide at the base of the point. If the point is any bigger you will not run. You may collapse and weld shocks. Bumper may be hard nosed. Bumper can be welded on with 2 4x6x1/4 flat plate 1 per rule or they can be wired, chained or bolted from mount to mount. Bumper can be no higher than 22" from the ground to bottom of the bumper or lower than 14" from the ground to bottom of the bumper.

GAS TANKS

Fuel cells/metal boat tanks must be placed in the back seat area and properly secured. NO STOCK TANKS. Fuel cells must be secured so there is no movement (Do not use bungee cords for this). If the tank is not secure you will not be running. Fuel cells must have secure caps and be leak proof. All fuel lines must have no leaks. Stock gas tanks must be removed or have holes in them and washed out. NO PLASTIC TANKS (heavy plastic racing fuel cells may be used). May have electric fuel pump. Must have a shut off switch. May have a gas tank protector. Protector can't be more than 36" wide and must be centered between wheel wells. No higher than 4" above the tank and 4" off the floor if mounted to the cage. Must be at least 4" gap between protector and all sheet metal and package tray.

TIRES

Fork Truck tires are okay. Tire inside of tire is okay. No fluid inside of tires. Valve stem protectors okay. NO reinforcing of rim. May have full weld in centers.

This is a LIMITED WELD class do not do any more than what is stated in these rules. Do not do anything to make your car illegal after inspection. If this happens you will be disqualified and have no return of entry. Don't assume you can do it. If not stated in these rules, call first. Officials have the right to re-inspect your car at any time. Judges decision is final. THIS IS THE MAX OF WHAT YOU CAN DO. DO NOT DO ANYMORE THAN THIS OR YOU WON'T BE RUNNING THIS CLASS. IF YOU HAVE ANY QUESTIONS PLEASE CALL OR TXT KIRBY. 2178213127

