

# Wright County Fair Weld Class 2024

## Front Wheel Drive Midsize and Compact Rules

Compact car (wheel base 104" or less - 4 or 6 cylinder.)

Midsize (wheel base 113" or less, Front Wheel Drive only, 4 or 6 cylinder.)

All glass, plastic, white metal grills and trim must be removed before entering grounds. No wheel covers allowed. Vehicles must be clean and free of loose objects. All decking in station wagons must be removed.

Driver's window and front windshield may have wire mesh or straps for protection. Front windshield may have two bars running from roof to cowl and may be bolted or welded to sheet metal only. Rear windshield may have one bar running from top of window to not more than 6" starting at front trunk seam, and may be bolted or welded to sheet metal only. Vehicles with a hatch may run the bar from the top of the window to the bottom of the hatch.

Original gas tanks must be removed. Gas tank must be metal and be located in the back seat area of the vehicle. Gas tank protector allowed and can be attached to the seat bar, 35" wide max, may not be attached to any sheet metal, **and the back of protector must be vertical and not angled.**

Any spills or leaks will result in vehicle not being allowed to run. Gas lines other than standard equipment must be located in the center of the vehicle.

Electric fuel pumps are allowed if mounted securely in the vehicle. Must have shut off switch near steering wheel or wired to ignition.

Two batteries are allowed and must be inside the vehicle on the passenger side floor and be securely fastened (bolts may go through frame) and covered. Rubber mats are acceptable. A box or container is recommended.

Auxiliary water systems are NOT allowed. Original or automobile radiator must be left in its original position. No metal or mesh to protect radiator. The fan may be removed or cut. Electric fans are allowed.

Headers allowed through hood not to extend higher than the roof of the vehicle.

There must be a hole (12" minimum) cut in the hood for fire safety. This must be done before inspection.

Transmission shifter may be located on the floor. Transmission coolers are allowed. No transmission braces permitted. After market bell housings allowed.

Use motor and transmission of choice (compacts NO V8). NO midplates allowed. Lower engine cradle allowed with pulley protector. No front plates or any other type of protectors. Engine may be strapped down on four corners using strap, angle or chain but not to strengthen frame. 2" x 1/4" maximum strap or angle. Straps may not be connected to each other. Straps may not act as a kicker.

Steering column may be altered to prevent loss of steering. NO distributor protectors allowed. Distributor cap clamp allowed.

All vehicles must have brakes at all times.

Any ply of tire allowed. Stem protectors allowed. Full center rims allowed. No other reinforcement of rims allowed. Wheel weights must be removed. Tires may be screwed to rims. Tires may be doubled.

All trailer hitches and parts must be removed from vehicle.

Body mounts may be removed. Original bolts can be replaced with 1" maximum bolts in factory locations only. You may add 2 additional bolts per side. Flat washers no bigger than 4" x 4" x 1/4". Bolts and washers cannot be welded to frame or sheet metal.

Bumpers may be cut or bent. Welding of the bumper skin together (chrome to inner liner) is allowed. Stuffed bumpers allowed. Must be factory bumper, no replicas or homemade. Bumper vent holes may be welded shut, however must have access to inspect.

Any automotive bumper, bracket, and shock may be welded on the front and back of car. Maximum of 16", measured from the back of the bumper to the back of bumper bracket/shock. If not using a bracket or shock you may use a FLAT 1/4" maximum plate 16" long and 4" wide.

Dash may be removed. A 5" maximum dash bar is allowed. Bracing 5" maximum is allowed behind driver's doorpost to doorpost on passenger's side for driver protection. No more than 12" behind seat. Bracing 5" maximum is allowed to connect the dash bar and the doorpost to doorpost bar on passenger and driver's side (can be an X). Two down bars allowed from cage to floor on driver's side and on passenger side. Must be straight down not angled (forward or backward). Down bars may be attached to the top side of frame. **Down bars may be no farther forward than the inside door seam. Dash bar must be straight across the vehicle.**

Driver's door may be fully welded. All other doors may be welded 3" on and 3" off (welding on outside of doors only). If doors not welded may be chained/bolted/wired to keep them shut. May have a bar on the outside of driver's door, not to exceed 4" past door itself. Non-post cars may have a flat steel strap welded from roof to door on passenger and driver's side. Strap should be no more than 4" wide by 1/4" thick.

Roll loop allowed behind seat (not more than 12" behind seat). May be attached to the top of frame on floor and welded or bolted to roof. (No kickers going to back of vehicle allowed.)

#9 wire may be used in four locations of your choice, inside car only, and may go around frame.

Hoods are to be either bolted, chained, or wired (choose one).

**Bolts:** Maximum 1" all-thread, 6 bolts maximum, may run through the frame. All-thread may be welded to frame and sheetmetal. Washer plates may not exceed 4" x 4" x 1/4". All-thread may not be sleeved. All thread must be straight up and down, not angled forward or backward. Washers may not be welded to anything.

**Chains:** No more than (2) single strand wraps will be allowed from the bumper to the hood. No criss-crossing allowed.

**Wire:** Hood may be wired up to 8 locations. Must be sheet metal to sheet metal.

Allowed to bolt hood sheet metal (skin) together with up to twelve 3/8" bolts. NOT allowed on trunk.

Hoods are allowed to be bent over the front of the vehicle but not to extend below or over the bumper. Hoods must be open for inspection. Hoods must be brought up to inspection with vehicle.

Spacers allowed on coil springs to bring car up to height. Maximum bumper height is 21" to bottom of bumper. Leaf springs may have six clamps per side, factory or homemade. Leaf springs must stagger down in spring length from largest to smallest and must be stock number of leafs. Minimum bumper height is 16" to bottom of bumper.

Spindles, A-arms, ball joints and struts must remain stock. Tie rods may be reinforced. Rear suspension must remain stock (i.e. leaf springs under axle) unless otherwise noted. Rear suspension may not be welded or bolted solid. Front A-arms may be welded down with 2 pieces of FLAT strap 2" x 4" x 1/8" or a pipe put in place of shock. Pipe MAY NOT be used in place of strut on FWD cars.

Use rear end of choice, must be factory 4 or 5 lugs. Welded or posi track recommended. You may tilt rear end if you wish. Rear end bracing allowed. This portion is for rearwheel drive compacts only.

Rear ends may be chained or wired in two spots to the frame. Slider drive shaft allowed. Upper and lower trailing arms may be reinforced but still function in a factory manner. Coil spring cars may also run a chain from frame rail to frame rail above rear end. Leaf spring cars may also run one chain per side from leaf spring to frame behind rear end.

Frame tilting allowed but no added metal reinforcements. Front frame may be shortened. Core support spacer 2 x 2 max used but welded on the bottom only. Allowed to tilt frame in two locations per frame rail.

Trunks may be bolted, chained, or wired shut (choose one):

- a) Lid may be chained up to six locations, single strand, sheet metal to sheet metal.
- b) Wired up to eight locations, sheet metal to sheet metal.
- c) Small bolts 3/8" maximum used around outside edge, sheet metal to sheet metal.
- d) All-thread (maximum 1") may extend through frame rail and trunk, three per side, and may be welded to frame straight up and down.
- e) Washer plates no more than 4" x 4" x 1/4" and may NOT be welded.

Trunk lid tucking allowed. Do not bend in sides. No full wedges. Must have access to inspect.

Wheel wells may be cut away for tire clearance. Fenders may be bolted together with eight 3/8" bolts or less.

Body lines may be pounded. Body seams may not be welded.

Welding front frame seam from front body mount by firewall to front of vehicle allowed. **ONE SIDE OF FRAME ONLY** up to 1/2" wide, no added material. Don't get carried away or you will cut.

If you have to re-stub your vehicle, you are only allowed to butt weld frame together. This means NO overlapping. You are allowed 1" x 1/4" to go around stub only. **NO CUSTOM FRAMES ALLOWED.** **NO** squaring of frames. Re-stubs must be from same model and vintage.

Pre-run cars will be allowed to plate where a car is bent. There must be a proof of bend where plate is. Plate cannot exceed 5" x 5" x 1/4". No more than 6 plates total on car. Plates MAY NOT be combined to form a longer plate. Minimum of 1" gap between plates.

Number must be painted in bright colors on both front doors and must be at least 15" tall. An upright sign with number must be used on the roof for identification of vehicle.

No objects, obscene words, or suggestions allowed on vehicle. They will be removed at judge's discretion!

No alterations allowed on vehicles after inspection, you may be disqualified.

Vehicles may be subject to reinspection at any time.

**Don't assume anything – call first. Must know your vehicle type, model, and which class you are in. No welders allowed in pit.**