

2023 NORTH DAKOTA STATE FAIR DEMO DERBY COMPACT RULES

General Rules

All rules must be followed.

Fresh cars only

Cars are allowed a max of 40% of car color to be black. No all black cars

All drivers must sign drivers paperwork or they will not run

All drivers must attend drivers meeting

You will be given 1 minute to make an aggressive hit. After 1 minute that car will be disqualified.

No drivers are allowed alcohol. No alcohol allowed in pits or you will be disqualified

Judges decisions are FINAL!

Any building questions call before assuming.

Drivers must wear a minimum of blue jeans and a long sleeve shirt.

Fire suits are recommended.

Car Preparation

Wheel base of 112" and less for FWD cars, can be powered by EITHER a 6 cylinder or 4-cylinder engine

Wheel base of 106" and less for RWD cars, RWD cars must be powered only by 4-cylinder engine

All carpet, cloth, plastic, glass headlights, tailgates, grilles, mirrors, chrome and other such trim must be stripped from inside and outside of the car.

Interior and trunk must be clean of all broken glass, loose screws, cans, etc.

Foam pads may be added around driver.

Bumper

Any full-size bumper is allowed for front bumper.

Homemade bumpers OK, but no larger than 4"x6" tubing. If running a point it has to be a minimum of 32" wide and a max of a 4" point.

Front bumpers can be cut down for size.

Any front bumper brackets up to 16" in length can be used.

Homemade bumper brackets can be used. You may use up to 1"-3" wide x 3/8" thick strap extending from you bumper down one side of your frame no longer than 16", you may fold 3" of this strap around the front of your frame creating an "L" shape. This giving you enough material to weld your bumper to your strap.

You can weld inner bumper to outer skin.

Rear Bumper brackets must be OEM for the vehicle you are running

Bumper can be welded to frame rails.

Front and back bumper must stay in stock location.

Bumper heights can be a minimum of 14" and maximum of 24" to the bottom of the bumper.

Frame

All frames must remain stock. No welding, adding, stuffing or reinforcing.

No welding of inner fender wells, strut pockets, etc.

Rear-end must remain stock. No adding, stuffing or reinforcing trailing arms, etc.

Suspension

Aftermarket shocks & struts are allowed for height. No solid rods or welding.

Tires

Any air-filled tire is allowed. No foam filled tires.

Can run valve protectors and tire flaps.

Stock rims only, no full welded in center rims.

No lip protectors or Bead locks

Motor

Must run engines that are 4 or 6 cylinders and that come with make of car.

Ex: No Chevy motors in Fords, etc.

Engines must remain stock.

No welding, adding, reinforcing to engine mounts or motor.

Lower engine cradles ONLY and must mount to factory motor mounts.

No engine, tranny, pulley protectors, carb or distributor protectors.

Can run headers.

Can weld top motor mounts to the radiator support.

Can replace wishbone mount with solid metal pieces.

Transmission

Transmission must remain stock. No welding, adding or reinforcing.

No welding, adding or reinforcing of tie rods.

Body

Trunk lid and tailgate may be secured using 5" x 5" plates and 1/4" thick.

- Maximum of six attachment points not including hinges and latches.
- Cannot be attached to the trunk floor or frame.
- Must be mounted in stock location.
- If not welding plates, may use 3/8" chain or 3 loops of #9 wire

Doors must be secured using 5" x 5" plates and 1/4" thick.

- Maximum of six attachment points not including hinges and latches.
- The driver door may be welded solid.
- The rear driver's side door may have four additional attachment points if the driver's door is welded solid.
- If not welding plates, may use 3/8" chain or 3 loops of #9 wire

Hood must be secured with hood pins, angle iron welded on fender or 3/8" chain and hood of car not exceeding six inches in length from top to bottom, with one bolt bolting the iron together.

- Maximum of six attachment points not including hinges.
- Pins may be made of bolts or pins that are no more than 3/4" in diameter.

- The front two body mounts may be removed and replaced with 1" threaded rods that are ran through the frame or alongside of the frame being welded to the frame but cannot wrap around the corner of the frame.
- All other attachment points may not attach to the frame in any way.
- Hoods must be cut open to allow easy access for extinguishing fires.
- Hood must be mounted in the stock location.
- The excess of the hood may be folded over the front of the car, but cannot be attached to anything.
- All washers for hood pins limited to 5" x 5" plates.

Windshield (H) bars are allowed.

- Must be vertical with a maximum of two bars not exceeding a 1 1/2" square tube or flat stack.
- May be bolted or welded in place, but not connect to or hold the hood in any way.
- Can only be connected to 3 inches of the roof and may connect to the firewall and to two spots to the dash bar.

Window bars or nets are allowed on driver's door.

- Maybe welded or bolted in place and will not count towards attachment point for the driver's door.
- If welded to the rear door, count as an attachment point for the backdoor.
Body shaping is allowed on the exterior only.

Cage

Seat bars are allowed.

- Pipe must be 2" to 4" in diameter and 1/4" thick.
- Endplates must be no more than 5" x 5" and 1/4" thick.
- Seat bar may be welded or bolted in.
 1. If bolted in, exterior plates cannot exceed 5" x 5".
 2. Two attachments per side and will not count as points for the doors.
- The halo bar must be attached to the seat bar and to the tin of the floor not connecting to the frame, also may be bolted to the roof in two locations.
Including both a straight across and a diagonal bar to the driver side rocker panel area is highly recommended.
 1. The diagonal bar helps prevent "blowing out" the driver's side door pillar from a hard passenger hit.

Dash bars are allowed.

- Pipe must be 2" to 4" in diameter and 1/4" in width.
- Endplates must be no more than 5" x 5" and 1/4" thick.
- Dash bar may be welded or bolted in.
 1. If bolted in, exterior plates cannot exceed 5" x 5".
 2. Two attachments per side and will not count as points for the doors.
- Steering column may be supported by or chained to the dash bar.
- Dash bar may not exceed 6 inches passed the front inside door seem and may not exceed 6 inches passed the ear door hinge for the rear door.

Driver and passenger door bars allowed.

- Must be connected from the seat bar to the dash bar.
- Pipe must be 2" to 4" in diameter and ¼" in width.
- Endplates must be no more than 5" x 5" and ¼" thick.

NO C-CHANNEL OR I-BEAM on the outside of driver's door.

Gas

- Must be metal and placed inside the car and firmly secured.
 1. No bungee straps.
- Original tank must be removed.
- No alcohol or methanol fuels allowed.
- Gasoline must run from the engine compartment to inside of the car.
- Carburetor conversion kits are allowed.

Radiators– Cooling Systems

Radiator must remain in the stock location in the radiator support.

- Up to two ratchet straps to hold in radiator are allowed.
- Water or antifreeze only.
- Radiator overflow hoses must vent down, preferably under the car, at least under the hood.
- Spray foam may be used to secure radiator, but may not be used anywhere else.

Battery

Batteries must be removed and place within the drivers compartment of the car.

- It is required that they be safely secured and covered.
 1. This includes securely bolted down, not just secured side to side.
- Battery boxes must be made of metal and secured to the floor with bolts.

Body Mounts

Body mounts must remain stock except for the 2-front body mounts may be removed and 1" threaded rod may be used and ran through the frame.

- No threaded rod in front of radiator support
- No other threaded rods may go thru frame.

Miscellaneous

You can run aftermarket gas/brake pedals and transmission shifters.

No nine (#9) wire.

Any questions contact:

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