



Demo Derby Rules

Sunday, August 13th, 2023 – 6:00 pm

177 County Road 22, P.O. Box 622, Morris, MN 56267
info@stevenscountyfair.org | www.stevenscountyfair.org

**For questions call:
Dylan Sanvig @ 320-287-3050 or
Chaos Motorsports on Facebook**

- Drivers must be at least 16 years of age and have a driver's license. Driver's and Pit people ages 14, 15, 16 and 17 must pre-register and send a ***notarized*** release form.
- Anyone running under the age of 18 must have a notarized release form from a legal guardian.
- **Entries will be accepted up to ONE hour prior to race time. You must be in the inspection line no later than ONE hour prior to race time. Late entries will be accepted up to 30 mins prior to race time, with a possible penalty. Entries later than 30 mins to race time won't be accepted. No exceptions. track discretion.**
- Everyone entering the event area is required to sign their own name on the entrance waiver before entering the pits. This will be up to individual Track Discretion.
- Drivers must wear a seat belt and full-face helmet along with eye protection at all times while operating a vehicle.
- Drivers and pit crew must attend the pit meeting 15 mins before race time.
- No driver or pit crew thought to be under the influence of alcohol or drugs will be allowed to participate, enter or remain in the exhibition area. No alcohol in the pit area before or during the event! Violation will result in disqualification and forfeiture of entry fees.
- No hot rodding in the pits. Keep it at an idle.
- Fire extinguisher required in pits.
- Drivers will have 1 minute to make a legal, metal-bending hit.
- If your car dies you will be given 1 minute to restart the car and make a hit.
- Any open door or fire will cause disqualification for that heat.
- **Any vehicle thought to be unsafe will be disqualified for that heat.**
- No Sedagons, El Caminos, convertibles, hearses, limos, etc. No re-stubbing frames.
- **Sandbagging and team-driving are not tolerated, and will be strictly enforced. This is your warning.**
- **No intentional hitting of the driver's door, or you're disqualified. Don't use your door as a shield. Officials will decide if it's accidental or careless. If disqualified in a heat, you may not compete in consolation heat/feature.**
- Any questions or controversies will be discussed at the pit meeting.
- Only the driver may speak with any questions or controversies (no pit crew).
- All official's decisions are final.

- ALL CLASSES MAY RUN HEATS DEPENDING ON TURNOUT, COME PREPARED.
- 12" hole in the hood and 6" hole in trunk for inspection and fire department.
- Guaranteed Payout requires 3 cars minimum in class to run class.
- **Yelling at, use of profanity toward or interrupting an official will result in you being escorted from the event area. This includes your pit crew. Your entry fees/winnings will be forfeited and it will be the officials call if you're allowed to compete next year.**

GENERAL DEMO UNIT PREPARATION FOR ALL CLASSES

This is what you are allowed to do to your car. All rules are at the official's discretion. Because we offer such a variety of classes, some general rules are overlapped in the class-specific rules. To make the rules as simple as possible: 1.) Class-specific rules trump the general rules. 2.) If it's not addressed in your class-specific rules, the general rules are to be followed. 3.) If it isn't addressed anywhere in the rules, assume that you can't do it. Any questions, please call first.

BODY, FRAME, WHEELS

1. No welding anywhere other than allowed in the rules.
2. No added weight to the vehicle. No plating, pinning, buffing, grinding, or packing any part of the car.
3. **No painting, undercoating, added grease/oil on frame or interior of vehicle. You will not even be inspected.**
4. See your specific class for allowances for frame or body alteration or reinforcement of any kind, other than allowed in the rules.
5. All outside hardware (door handles, chrome, moldings, mirrors, etc.) must be removed. All glass must be removed completely, none in the bottom of doors.
6. You must have at least a 15"X 15" roof sign with your number on it, and on both doors. Roof signs cannot be attached or straddle roof hoops. Must be either in front of or behind not both. One sign only except 2 man extreme class.
7. All trailer hitches and braces must be removed. This includes all gooseneck parts.
8. Wheel centers allowed No split rims! No screws through the rim.
9. Wheel weights must be removed so they don't fly off.
10. No studded tires. Valve stem protectors allowed.
11. You may tuck/prebend/notch the rear of your car. Must remain safe!
12. No added bolts, screws, or body mounts, other than allowed in rules.
13. Body mounts may be removed, and replaced with no larger than 3/4" dia. 6" long with 6" max washers. 3/4" space must be between body and frame. NO more than 6" washers are allowed.

14. Interior body seams and window openings may be welded in all classes except chain stock/compacts and trucks. No added metal.
15. Body panel shaping is NOT allowed unless noted in your specific class rules.
16. Body and frame rust patching is allowed (take pictures before repairs) at official's discretion. You must leave the rusted panel intact, so it can be seen with a scope. The repair panel must be no thicker than the panel being repaired. Leave a spot unwelded to show thickness. May go 2" past the damage. **Don't abuse this rule, or you'll cut!** Call with questions.
17. Frame patching is allowed only on bent cars that **NEED** it (official's discretion). NO more than 8 patches total. (A total of 8 pieces of steel used for entire car). No bigger than 4"x4" or 3"x 5"x 1/8". **Must be able to prove bend!** Leave a spot un-welded to prove thickness. frame restubbing is allowed on prerans only. must be from the same frame the same year. **No added metal!**
18. Drivers door may be welded solid. May be reinforced but no further than 6" beyond the door seams.
19. All other doors must be secured shut in the way allowed per class.
20. You may bolt inner and outer fenders together. Max of 5 bolts per fender.
21. You may add up to 16 bolts to the hood. Max of 3/8" bolts with 1" washers.
22. Must have holes in the hood for fires.
23. Must be able to see inside the trunk.
24. Must be able to open the hood for inspection.

WINDOWS

1. Windshield **MUST** have two straps, bars, or 3/8" chains from the roof to the cowl to protect the driver. Straps/bars 3" wide max by 3/8" thick. Can only lap over the cowl and roof 3". **Any material deemed to strengthen car may be forced to remove**
2. Window grate allowed on driver side.
3. Cars with no posts may weld a 4" wide, 1/4" thick strap from roof to door.
4. One rear window bar is allowed in all classes. Max of one 3"x 3/8" flat or C-channel or 2x2 tubing or 2" pipe. 6"x6" max endplates, Must be vertical, no more than 4" onto trunk lid it must be in the window opening and must be at least 12" from any cage component (**halo, gas tank protector**). Not allowed on hatchbacks or wagons.

POWERTRAIN

1. Any powertrain may be used in any car, but the motor **MUST** be within 2" of the original motor. **NO SETTING BACK OR RELOCATING MOTOR!!**
2. bop trans adapter plates are allowed **must be reasonable size!!!!!!!!!!!! official discretion**
3. Home-made driveshaft allowed.
4. Motor mounts may be chained or welded, but must not reinforce frame in any way. **Motor mounts must be a reasonable size and mount to engine cross-member**

only!! one mount per side and one 4" wide plate to frame centered above stock motor mount holes.

5. You may use headers and floor shifters.
6. Differentials may be welded for posi.
7. Must have at least 2 working brakes.
8. You must have an air cleaner on at all times.
9. Radiator and fan may be removed, but not relocated to another part of the car. May use electric fans. No adding to the cooling system in any way. No home-made radiators or radi-barrels except where allowed in class-specific rules.

SUSPENSION

1. Suspensions must be completely original, other than allowed in the class rules.
2. No coil-over shocks, no altering shocks in any way.
3. Max of 4 leaf spring clamps total per side (including factory clamps). 4"x4", 1/4" thick max.
4. You may chain rear-end humps with one loop of 3/8" max chain per side.
5. Coil springs may be chained or wired in place.

INSIDE OF CAR

1. Driver's seat must be securely mounted to the floor. If you're using bolts, they may not go through the frame.
2. May use home-made steering columns.
3. Transmission coolers allowed up to a reasonable size. If not left in stock location, they must be secured safely inside a container in the passenger compartment of the car. Must use transmission cooler hose or hydraulic hose (no fuel or low-pressure hose).
4. All flammable materials, except what's needed for driver's safety, must be removed.
5. Batteries must be relocated to pass floor. They must be mounted and covered securely. Max of two batteries. Battery box must be reasonable size inspector may make you cut it! The battery box and trans cooler must be attached to the floor or cage **not both!**
6. Holes in the firewall must be covered well.
7. Spreader bars must be no larger than 5 inch diameter 1 dash, 1 behind the driver's seat. Dash bar must be at least 8" away from engine and transmission. May connect the two, to form a 4-point cage, may run 4 down bars-they cannot be to or attached to frame. Down bars must be within front inner door seams. Cage material must be at least 3" off of the transmission tunnel. Door bars may be no closer than 6" to the rear wheel well.
8. Halo bars allowed and recommended. May not be angled backward, no kickers allowed, and attached to the spreader bars only. **MUST NOT ATTACH TO FRAME!**
9. Gas tank protectors allowed must be welded to the back of the spreader bar only, 6" max. pipe/tubing must be **free-floating** 3" min. from floor and 1" from back seat metal, 24"x 24" x 6" max dimensions.
10. If mounting on the floor may not contact the cage in any way. **MUST CHOOSE 1!**

FUEL SYSTEM:

1. Fuel tank must be located in the back seat area.
- 2. Must be very securely mounted and covered.**
3. No plastic fuel tanks allowed. Boat tanks or well-made fuel cells only. No relocating original tanks to inside of car. No fuel tanks larger than 14 gal.
4. Original fuel tanks must be removed.
5. Fuel lines must run inside of car, not under or along frame.
6. Fuel lines must be secure, and kept away from sharp/hot areas.
7. High-pressure fuel-injected cars must use adequate fuel line for the pressure.
- 8. Electric fuel-pump vehicles must have an emergency shut-off that is easy to locate in case of fire. Use fluorescent tape or paint.**

CLASS-SPECIFIC RULES:

Compact Chain

Any 110" max wheelbase FWD or 104" max RWD compact 4 or 6 cylinder only.

No HHR, PT cruiser or crossovers

1. **Bumper**- May hard nose frame, core support must remain in stock location. May have a 4x4 square tube. Can swap a fullsize bumper seam welded. Can have a homemade pointy bumper with an 8 inch point spread over 32 inches.

2. **Bumper Brackets**- may have a 4x4 max FLAT only piece of steel to connect bumper to frame on each side. May have 1 piece of 2x4 max flat steel on top of bumper to frame to keep bumpers from falling off. No cutting and extending these plates back any further.

3. **Cage**- 4 point cage. 60 inch long max side bars, 4x4 tube, 2x6 tube allowed max with exception of drivers door bar. No down bars unless

it's on driver side, driver side down bars can be vertical only, not used as kickers and must be 6 inches from firewall. May have a halo but can only be attached to the cage, no mounting to the roof.

4. **Gas tank protector**- allowed but can only be attached to back bar of cage. Cannot come within 4 inches of any floor or back seat metal on fresh builds. Pre rans will be inspected fairly. Max 26 inches wide.

5. **Hood**- 4 attachment points max. (2) $\frac{3}{4}$ threaded rods max. These may only be in the core support area. You may run down to the frame in place of front most core support body mount. Cannot have any threaded rod behind core support or down to crouch of frame. Can use $\frac{3}{8}$ max chain, 1 loop max. Must have a 10x10 hole cut minimum in hood in case of fire. Can use (6) $\frac{3}{8}$ bolts in the hood to hold sheet metal together.

6. **Trunk**- May notch and pre bend, creasing allowed. 4 attachment points max allowed. 1 loop of $\frac{3}{8}$ chain max.

7. **Doors**- Drivers door is the only door that can be welded. Driver door plates cannot exceed 3 inches past door seams. Rest of doors can have 2 attachment points per door using max 1 loop of $\frac{3}{8}$ chain. 9 wire can also be used, 2 loops max for wire.

8. No rear window bar allowed.

9. Choice of tires, no split rims. No studded tires

10. Can reinforce tie rods but must use stock ends.

11. Must use stock motor mounts. May weld a piece of 2x3x $\frac{1}{4}$ flat steel to lower motor mounts. May weld $\frac{3}{4}$ thick ready rod on top motor mounts to strengthen but need to use the stock mounts.

12. Stock struts only, no reinforcement.

13. 6 total fix plates can be used, 3 per side max, 4x4x1/4 max plate each, cannot cut and expand these plates in any way. Each plate used counts as 1 total.

Call Dylan Sanvig with questions (320) 287-3050

Chain stock Fullsize

- Any year fullsize up to 2002. No hearses, imperials, convertibles or suicide lincolns no pickups or suv's.

Tires of choice, no split rims, no studded tires.

Tilting is okay, no extra metal added. 1/2 inch thick welds max on boxes. 14 inches of weld maximum. Bottom must not be cut. Aftermarket bells allowed, if you choose to use one, transmission doghouse must be cut slit 10 inches to allow it to move.

No seam welding other than the first 8 inches of frame to bumper, ONLY. Not allowed anywhere else on car.

Core Support must be in stock location and remain stock. Can only shorten the frame to the front of the core support bolt.

Radiator must be in stock location, No radi barrels. Can spray foam in place.

- **Hood** - 6 attachment points max. Can be bolted or chained only. 3/4 threaded rod max sheet metal to sheet metal only but may weld pipe on top of frame only to keep body height when tilting. 2 inch pipe max 1/4 thick. Attachment points off fire wall can only go under the hood 5 inches long max. The only bolts that can go to the frame are the front 2 core support allthread.

- **Trunk** - 6 attachment points max. 3/8 bolts with 2 inch washers, 3/8 max chain, 1 loop per attachment point chain, 2 loops wire. Nothing to the frame. Can have 2 threaded rod from trunk lid down to floor vertically only, nothing to frame, 3/4 max threaded rod, 5 inch washers max. Your 2 threaded rods count as attachment points.

- **Doors** - Drivers door can be welded shut. Nothing welded past 4 inches in front or back of drivers door seams (outside of door). Other doors must be chained or wired. Using 3/8 chain only 1 loop from door around rocker per door. 2 loops max per vertical seams. If you choose to wire you may use 2 loops per spot allowed. Chains or wire cant be tied around or attached to the cage. Other option is you can have 1 piece of 5x5x1/8 door strap instead of chain, only allowed 1 per vertical door seam if using this option not chaining or welding at rockers.

- **Rear Suspension** - Watts conversions cannot be connected or go all the way across on top. 8x8 inch package tray plates allowed and Cannot pass through the body. side frame mounts can only be 4 inches wide and 4 inches tall 6 inches long. And not strengthen the frame in any way. Trailing arms can be shortened up but cannot be reinforced. Leaf springs with 7 leaf springs max, no added clamps. Use factory shackles. Keaped at factory

location. Spring must have factory stagger. No straight packs. No leaf spring conversions

Rear end- any rear allowed braced is ok can not strengthen the frame.

Front suspension- Can have 2 straps to keep the arms in place, can only be 2x4x1/4 max straps top only. No aftermarket tie rods, no aftermarket spindles, no aftermarket ball joints, no weld in ball joint rings. Stock replacement only! A arm swaps are allowed. Aftermarket columns are ok.

Cage - Can have a 4 point cage. 60 inches max side bars 4x4 max tubing, must be 4 inches or higher off the floor. 4 down bars max. 2 can be down to sheet metal only but must be 4 inches back from the inner door seam. Can have 2 down bars to top of frame, can ONLY go 4 inches from either side of the B pillar (driver door/rear door seam). Halo may be 4x4 max tube, bolted to roof in 2 spots max, 3 inch washers.

Gas Tank Protector - Can not be within 3 inches of sheet metal on floor and 2 inches from back seat sheet metal. 26 inches max width of protector.

- **Bumper -** Any fullsize bumper is allowed or a simple 4x4x1/4 tube max. Home made bumper is okay, must be 8 inch point over 32 inch spread max. May hardnose up to core support. Can use 8x4 inch flat steel to mount front bumper to frame. No gussets. Can weld shock to side of frame but can only be 8 inches long. Rear bumper can be swapped and welded on but no points! May weld a 2x2x1/4 angle iron 4 inches max long to mount bumper to frame.

- **Body** - Can replace body bolts with 3/4 bolts 6 inch washers max. 1 inch space between frame and Body. Can pre bend. Can bolt each fender in 4 spots max with 3/8 bolts, 1 inch washers max. Creasing is okay. Body spacers can be 3 inch pipe max and must not be welded to frame.

- **Drivetrain** - Can use engine/transmission of choice. Rearend cannot strengthen frame in any way. Lower cradles are okay no distributor protection. No tranny braces. No mid plates. Bop adapters are ok but must not go past the heads by 2 inches. Can cut into firewall for distributor. Slider driveshafts are allowed. 2x2 tube can be used as tranny cross member must be straight across, can use 1 loop of chain to tie transmission to cross member. Engine must be welded in engine cross member only. Keep at Stock location. Aftermarket motor mount are ok. May be 6x8 inch plates. Pulley protector is allowed but swaybar must be cut out. Cannot go past 2 inches in front of fan.

- **Fix plates** - 3 per side max. 6 total. Must be on proven bends. 4x4x1/4 max plates. Plates need to have at least 1 inch space between them. PICTURES FOR PROOF!

- **Rust repair** - May fix floor rust with same material thickness. 10x3 inch of 1/8 inch flat per rail max can be used for frame rust repair. Mounted 1 inch past rust hole. Can only be on 2 sides, pieces of flat can not be welded together. Send pictures for proof, unless its visible ill assume its not rust repair and you'll cut.

Y framers- may close the y and weld top and bottom seam 8 inches back from bumper

No rear window bars

Can have 2 windshield bars to firewall

No sedagons

Nothing else can be done other than what is stated in the rules, what I give in the rules is all you can use.

Call or message with questions - Dylan Sanvig 320-287-3050

Outlaw Mini Truck/Vans

- Any small frame (1/4 ton) trucks, van or SUV. No fullsize cars or trucks.
- V8s are allowed
- RWD compacts are allowed. FWD compacts are NOT unless converted over to RWD.

- **Drivetrain** - Full engine cradle is allowed. Tranny bracing is allowed. Braced rear end is allowed. Pinion brake is allowed.

- **Bumper** - Homemade bumpers are allowed. Points must not have a stick out more than 12 inches from tip of the point to back of mounting bracket.

- **Core Support** - May box in core support with tubing or angle iron. Can put a 1/4 plate in front of support no wider than width of fender to fender.

- **Hood** - Must have hole cut for fires. Can use up to 8 hood pins down to frame with 5 inch washers.

- **MUST have a cage to run this class. Including roll bar/ halo.**

- Doors/tail gates may be welded solid down to frame with 1/4 straps no wider than 4 inches.

- Fix plates are allowed on all and any bends.

- Frame may be capped from back of bumper to firewall.

- Solid struts allowed.

- Hump plates allowed. 1/4 plate max

- Seam welding on frame and body is allowed.

Tires of choice, no split rims, no studded tires.

- Leaf spring swaps are allowed, can use homemade brackets.
- Call/text with questions, Dylan Sanvig 320-287-3050

Outlaw Compacts

1. 110" max wheelbase for FWD, 108" max wheelbase for RWD. No V8's. 4 and 6 cylinder only.
2. This is an Outlaw class so you will be required to have a good cage in order to run.
3. You may plate all bends, you may box your frame.
4. No extreme pointed bumpers. 12 inches MAX from point to back of bumper where it mounts to frame for homemade bumpers. Must have a minimum of at least a 26 inch spread.
5. Battery and fuel tank must be relocated to inside of vehicle.
6. Choice of tires, no split rims. No studded tires
7. Cradles and braces are allowed.

Call with questions - 320-287-3050

Autocross

1. All glass needs to be removed with the exception of the windshield. The windshield is optional.
2. All bumper skins and outside trim/mirrors need to be removed
3. Airbags need to be removed or disconnected
4. You can replace the front bumper if you do choose to do so, nothing with a point is allowed.
5. Will be allowed only 1 passenger
6. This is not a derby, this is a race. I WILL enforce this rule at the track. This rule is for safety. Little bumps/pit maneuvers and pushing out of the way are fine. Anything else will get you DQ. This will also save cars to race another day.
7. Call/text with questions Dylan Sanvig 320-287-3050