

Brown County Agriculture Society

New Ulm, MN

2021 Demolition Derby Rules

Fair Dates: Thursday August 12th & Saturday August 14th

Pumpkin Smash: Date to be Determined

Stock Rules for 80's and Newer, Old Iron, Midsized, & Sub-Compacts

GENERAL RULES:

Applies to ALL Classes Unless Noted

- NO Imperials (PRE 1973), Hearses, or Ambulances.
- No Radi-barrels or homemade radiators
- All airbags must be removed
- All drivers MUST wear full face helmet
- All drivers MUST wear long sleeves or some form of a non-flammable leather or racing jacket
- All glass, interior, loose objects, etc. must be removed
- All cars must have a seat bar from door post to door post
- All cars must have a dash bar if dash has been removed, those bars may be connected
- Gas tank protectors are allowed, must be attached to seat bar only and no more than 24" wide behind the gas tank. **There must be a minimum of 1" space between protector and sheet metal/rear package. Sheet metal must remain unaltered behind the fuel tank protector.**
- **Roll loop is required**
- **Remove ALL wheel weights**
- A 15" x 15" Roof sign is required for identification purposes
- Driver's side steel window net is recommended. Driver's door should be painted a contrasting color to the rest of the car (can only cover driver's area of the car)
- We HIGHLY recommend that you tape your steering wheel to prevent hand/arm injuries
- 03' and new are allowed to run in the 80's and Newer, however with those cars, you have to run them COMPLETELY stock up front, that means rack/pinion, suspension, and everything stays stock, no swaps or anything.

INTERIOR:

- All station wagon decking must be removed
- Driver's door padding is required
- Windshield bars are required- 2 bars max, 3 inches wide max. Attached to roof and firewall, no more than 6 inches onto the roof or firewall

- One down bar is allowed on each side of car to prevent driver/batteries, etc from being hit. Attached to floor sheet metal only and may not pass through the floor
- Body bolts must remain in factory location, ½" diameter bolt maximum, and isolators must remain rubber. Must maintain a ¾" space and cannot pinch the frame (allowed through top side only). 3" wash diameter maximum

EXTERIOR:

- All chrome strips, door handles, etc must be removed from car
- All trailer hitches must be completely removed. Shocks and leaf springs must be in original condition, not home-made. NO extra clamps
- NO welding of frames. NO welding of any type unless stated in these rules.
- Front suspension may be welded for height. No more than 2" strap to hold top of a-frame down. Can also use a piece of chain. No more than 2" weld on frame for attachment
- No displaying foul, profane, or suggestive wording or decorations. You will be required to paint or remove infraction
- Any automotive bumper may be used, cut to fit, a may be stuffed. Otherwise, you can use up to a 4x4x1/4" square tubing. MUST remain flat, open on both ends, and wrapped in chrome. No homemade bumper brackets. Bumper may be welded on. Bumper to factory shocks/brackets, factor shocks/brackets to frame. One set of brackets only. Bumper skin may also be welded down with no added material.
- Shock/brackets must be factory to the car and in factory location
- **OLD IRON ONLY:** Y-frame Chryslers can cover one side of the frame only (top or bottom), with a plate no larger than to cover the opening, and must be at the most the same thickness of the frame or less

HOOD & UNDER HOOD:

- Hoods must remain in stock position a minimum of a 6" hole must be cut in hood for Fire Dept. access. Header holes are okay
- Radiator must be in stock position. Ratchet straps or wire to hold in place, do NOT use bolts
- Floor shifters are okay
- Motors and transmission may be welded in place
- Do NOT reinforce frame or you WILL cut, official's decision.
- NO distributor protectors or tranny braces for **the stock classes**
- NO full engine cradles
- Lower cradles are okay
- Pulley protectors are allowed but the sway bars must be removed then

- Mid-plates are allowed, they cannot contact the frame, must have a minimum of 1" space from the firewall, and cannot be wider than heads of the engine (not the valve covers)
- Carburetor Halos are allowed but must be within reason and must be able to pass through the firewall
- External tranny coolers will be allowed. Must be securely mounted on the floor. Lines must be rated for high pressure. DO NOT use fuels lines with hose clamps. Please use proper padding, etc when attaching lines to the interior

DOORS WIRES AND CHAINS:

- Two or four door hard top vehicles will be allowed 3 wire locations from roof to the frame. Two or Four door sedans will be allowed 1 wire location per door. Six wraps per location. Wire CANNOT attach to cage/roll loop/windshield bars
- Driver's door may be welded shut SOLID, ONLY the driver's door!!
- Driver's door safety bar is optional. If using safety bar, it must be either outside the car or between door skins. No thicker than 1" flat stock. Bar cannot extent more than 4" past door seam on front or rear of door
- All other doors may be chained or wire in 2 locations per seam or seams may have TWO- 3x5x1/8" plates welded on to hold doors shut

HOOD, TRUNK, & TAILGATES:

- Must be chained or wired only. NO WELDING!!
- SIX fastening points per hood, SIX for the trunk as well
- You will be allowed TWO- 3/4" bolts at the core support in the hood ONLY, but must be bolted in place, no welding anywhere to attached these bolts. You will be allowed a 5x5" washer on the hood bolt but must remain free-floating
- You will be allowed TWO- 3/4" bolts through the trunk, must be attached through the frame, NO welding. You will be allowed a 5x5" washer on the trunk bolt but must remain free-floating (must maintain body spacer if going through a body mount)
- FOUR bumper ties (chain or wire ONLY) allowed. Core support to bumper. Must be in place during inspection
- Trunk lids may be tucked in Leave 60% in factory location, do not dish trunk lid/speaker deck more than 4" past factory or you WILL cut
- DO NOT pound/pinch body lines

GAS TANKS:

Maximum of 8 gallons of gas will be allowed

- Gas tanks must be inside car mounted in the rear seat area. Must be securely fastened down. Do NOT use plumbers' tape with self-tappers. Official's decision is FINAL. Splash cover is recommended
- DO NOT use gas lines under car

- NO non-metal containers. Boat tanks or well-made fuel cells highly recommended
- Notify official in inspection if you are running an electric fuel pump
- Must have a shut off switch. SWITCH MUST BE LABELED

TIRES/REAR END:

- Anything goes but they must be filled with air
- Stem protectors are allowed
- Remove ALL wheel weights
- Small wheel centers are allowed, NO full centered wheels
- Any stock 5-lug rear end may be used
- NO bracing or after-market axles of ANY sort
- Rear end may be welded or POSI traction
- Suspension must remain stock. NO adding of any spring clamps on leaf spring cars. (Missing or broken factory clamps may be replaced but must be 1/4" thick or smaller, must maintain factory appearance and bolts cannot exceed 3/8" only FOUR per wheel end TWO fore and TWO aft the axle)
- Coil springs must be wired in to prevent them from coming out
- Rear may also be wired in to prevent them from coming out
- Rear may also be chained down in ONE spot to get desired height
- Pinion brakes are allowed
- Slider Drivershafts are allowed
- Humps are allowed to be peened in
- Tie wire or chain from rail to rail behind the humps is allowed

BATTERY:

- Limit of TWO
- Must be securely fastened and covered on front passenger floor
- Plastic batter boxes are NOT allowed unless a metal frame is incasing them

BODY, FRAME, AND FRAME REPAIRS:

- Cold bending IS allowed
- Pre-notching (Pieing) the frame is allowed
- Cover the notch with plate and welding back over is NOT allowed & vehicle will NOT be allowed to compete
- Rust repairs are a case-by-case issue. Sheet metal must be repaired with sheet metal only. No more than 1" past affected area. Rust holes in frame, CALL for instructions. 1/8" maximum thickness
- Pre-RUN REPAIRS- due to so many abusing this in the past we now limit the number of repairs allowed. You will be allowed THREE 4x6" plates per frame rail. There must be

1/2" gap between plates, cannot overlap. Must be able to prove the repair or you WILL cut.

SUB-COMPACT ONLY

- ALL above previous stock rules apply
- ANY car with a maximum wheel base of 104" rear wheel drive or 106" front wheel drive FOUR or SIX cylinder
- Full center implement tires WILL be allowed on the rear axle of FWD cars only
- Wheel base will be based upon factory specifications ONLY

MID-SIZED CLASS

- ALL above previous stock rules apply
- Wheel base will be up to 113"
- Cars will be 1970 and newer
- Full center implement ties WILL be allowed on the rear axle of FWD cars only
- Wheel base will be based upon factory specifications ONLY

Mini-VAN, SUV, COMPACT Trucks

- ALL above previous safety & stock rules apply UNLESS noted differently here.
- No all-wheel drives, if you have a 4-wheel drive you must remove 1 drive shaft
- Any motor/transmission combo will be allowed but must be mounted within these rules or you will NOT run. No moving or switching out transmission cross members. You will be allowed lower engine cradles. Must be an OEM rubber motor mount (NO aftermarket motor mounts). If you have to build a bracket to mount motor mount to must be done as stock as possible. Nothing can go from frame rail to frame rail, must be two separate mounts and bracket must be bolted to the frame rail and motor mount must be bolted to the bracket. Only welding allowed is to make the bracket to set motor on (Official decisions) if you have questions on your bracket please send me picture to get approved first
- Push button and toggle switch for ignition allowed. Electric fuel pumps MUST have a shut-off
- You may run aftermarket pedals, shifter, and slider
- Dash bars are optional, must have a back seat bar, 4" max material attached to door post. You may have a 6x6" mounting pad to the pillar. 4-point square allowed around the driver with 1 down bar on the driver's side only to the floor NOT the frame. A roll-bar is recommended, you may only weld this to the side bars or rear seat bar. You may run an additional bar directly behind fuel tank as a protector, may be welded sheet

metal to sheet metal directly behind gas tank if you choose not to weld it off of rear seat bar

- You may weld the gears in the rear-end to create posi-track. Rear ends must remain factor to the vehicle, no swapping rear ends
- You may run tires of choice, wheels of choice with up to an 8" weld in center. You may weld on valve-stem protectors but no other welding will be allowed to reinforce the wheels
- Vehicle must be totally stock appearing minus lights, chrome, plastic, etc. You may cut fenders for tire clearance but no bolting of fenders
- Gas tanks and battery boxes will be secured and covered inside the car; factory tanks must be removed if located behind the rear axle. If the stock gas tank is located in front of the rear axle, you may run it at the official's discretion. If it becomes a safety issue you will be disqualified!
- You may fasten hood and tailgate/trunk with 4 chains or loops of wire plus the stock hinges. Chains or wire may NOT touch other fasten points in any way but can go around bumper OR frame. You may switch out the core support body mount and used it as a hood tie down with 3/4" rod that cannot be welded anywhere
- Bumpers can be stock for your vehicle, can run 80's or old iron bumpers. You may seam weld bumpers. If you choose to build a bumper you may use up to 4x4" tubing with a 4" point maximum. No Chrysler Pointy bumpers will be allowed in this class
- To mount your bumper, you may use 4x 1/4" piece of flat steel 6" total length welded on the outside of the frame. There are 4 sides to the frame, you choose which side to put it as long as it is not INSIDE the frame. If your frame starts out shorter than core support or sheet metal, call the officials for further instructions.
- Door must be welded, chained or wired with 2 per vertical seam; driver's door may be welded solid with nothing bigger than 3" wide 3/16" flat strap. You may re-enforce outside of the driver's door for safety 4" past the front and rear seam
- If you have rusted out body mount you will be allowed one 3/8" chain loop or loop of wire per mount to re-connect. No adding body mounts
- No transmission coolers or other coolers mounted inside the vehicle, if the vehicle came with the cooler it can remain on the vehicle in the stock location if you'd prefer to keep it
- Front suspension may be welded solid with 1- 2x4x1/4" strap per side upper arm only. You will be allowed 2 leaf spring clamps per side. Factory or aftermarket you choose. Non leaf spring vehicles will be allowed 1 loop of 3/8" chain around rear end and around frame, NOT to body. Or if you have a leaf spring vehicle you can either choose chain or leaf clamps, NOT BOTH. You must have 2 straps in the windshield area for safety. These straps may be up to 2x 1/4" flat strap or you may use #9 wire for safety bars
- Frame repair- You may weld a 4x6x1/4" thick plate past the bend on pre-run vehicles. You are allowed 8 plates MAX per vehicle. Plates must start with a gap between them,

1/2" bead maximum. Bend must be proven, contact me ahead of time with photo evidence!

- IF IT DOESN'T SAY YOU CAN DO IT, DON'T!
- Official's Decision is FINAL!

Limited Weld Trucks

- ALL above previous safety & stock rules apply UNLESS noted differently here.
- 1/2- 3/4-ton American made pickup, ext, crew cabs, and suburban are allowed. NO 1 tons or frame swapping. Frames must remain stock and not shortened or altered in anyway. Shortening front or rear frame horns is not allowed. Call before cutting!! No welding other than specified!! NO adding extra braces in frame or engine cradles
- Hood may be chained 3/8" chain, wired or bolted in 6 separate locations, two chains or wire may go from core support to bumper. You will be allowed two 1" max rods welded to frame used for hood pin at core support, rods may be welded to core support 5" per rod (5" long filler material can be used to reach core support if not resting tight against), you will also be allowed a 5x5" washer welded to top of core support for hood pins to go through to hold in position, other 4 locations up to 1" max hood pins, wire or chain must go from sheet metal to sheet metal only. Hood washers no larger than 5x5" and 1/4" thick, hood pins must be straight up and down 1" max length. You may use four 3/8 bolts each hole to bolt hood skin together hood openings around stacks. MUST have two window bars no larger than 3" or two #9 wires in windshield opening to prevent hood from entering driver's compartment
- Doors may be chained two locations per seam or welded 24" total weld outside only (1/4" strap no wider than 2") each chain or wire location will count as 4" of weld. Driver's door may be welded solid and reinforced for safety (HIGHLY recommended) and can have a driver's window net. Tailgate must be ran in upright position, no removing, may be chained in two locations per side OR welded using 2x2" angle iron inside, or flat strap outside 24" total on the gate may be lowered and welded to end of frame rails to use as a bumper as long as no other form of bumper is used. If bumper is used may lower tailgate and weld to top of frame only (NOT bumper) and chained in two lower locations. Suburban & SUV back doors use tailgate rules to secure
- Front and rear bumpers may be changed to seam welded, loaded car bumper (rear bumper must remain flat) NO adding bumper brackets to frame. If you choose not to install factory car bumper you can use a FLAT ONLY 6' long max, 5" diameter or less, 3/8" thick square or round tube behind factory truck bumper welded to frame, no sharp edges, cannot protrude past fenders (must be covered by a skin or front side). Bumpers may be welded to frame plus added 2x2" wide 1/4" thick angle iron also to help secure to frame on all sides (DO NOT run lengthways down frame as a bracket- bumper

attachment ONLY) Bumper height max 27" to the top of bumper- min 22" top in the rear. NO open frame rails

- Any ply tire allowed, stuffed, skid, ag, and split rims but ring must be fully welded. Uni-lug wheel centers 9" max may be used, no bead locks or full centers. 1" wide "lip" protectors will be allowed on rims
- Suspension: Front axle non-leaf-spring trucks may install $\frac{3}{4}$ " bolt in center of a-arm welded to spring pocket to gain height. Front shocks may also be replaced with a piece of steel stock (bolted) in factory location to maintain ride height. Stock leaf packs, no adding leaves, you may have 6 leaf clamps per leaf pack total. No coil to leaf conversions on front axles. Factory leaf spring perches may be welded or bolted to frame to help from tearing off. May add two chains per axle to frame $\frac{3}{8}$ " chain. $\frac{1}{2}$ ton may swap to $\frac{3}{4}$ ton rear ends, may be welded posi-traction, NO bracing on rear ends.
- May crossbreed engines and transmissions, NO adding engine cradles or extra brace in frames.
- For older C channel frame trucks with no engine crossmember this is your allowance: you will be allowed to build an engine crossmember out of 2x6x $\frac{1}{4}$ " thick tube max. You will be allowed to have a piece of the 2x6" tube 6" long welded or bolted in the C channel part of the frame, from there you can weld the 2x6" tube straight across off those pieces. This crossmember must be directly above the front axle of the truck, absolutely no gussets or extra bracing from crossmember to frame. Must only contact engine/cradle at mounting bolts ONLY. Outside of motor mount bolts. Crossmember cannot be used as brace or support for lower engine cradle or any other part of drivetrain or suspension, in addition to the crossmember you will be allowed to box frame from front frame horns to this crossmember. Max thickness on plate will be $\frac{3}{16}$ ", no internal reinforcement behind plate. Must have inspection hole in frame capping. Do NOT use firewall as a brace. May have two chains or wires to frame to hold motor in place, may weld motor mounts in size of factory mount. Engine must be bolted to mount with two bolts not welded. Trans cooler allowed if deemed safe, do not use rubber unbraided trans lines. Trans may be chained or wired to crossmember. Block saver lower engine cradles allowed without pulley protector. Distributer protectors, trans protectors, steel ultra-bells, and steel tail shafts will NOT be allowed. Aluminum ultra-bells will be allowed. Any driveshaft may be used, sliders okay. No radi-barrels, must use a radiator in factory location or loop hoses
- Trucks may have 8 locations of chains, bolts or U-bolts to secure box to frame, cab 6, and core support 2, (suburban, SUV, may only use 10 total throughout cabin compartment and 2 at core support). 1" diameter max size bolts with plate size no larger than $\frac{1}{4}$ " thick x 8" square. Bolts may be bolted through top of frame like factory or may be welded to outside of frame, do NOT pin frame. In addition, you may leave original body mounts in factory location but must remain 100% stock rubbers included. If removed and bolted solid you lose option to use extra factory location. BOX roll over

bar (strongly recommended) mount in front of box, must remain 5" gap min away from top of cab, must stay vertical NOT angled. Can bolt or weld to box floor or to box washer plates (not frame) no wider than frame on uprights, no wider than cab on top. May have kickers two feet back from uprights to support, and one crossbar across bottom of kickers to protect gas tank, roll over bar cannot attach to inter cage components. Box may be bolted to cab in four locations 1" bolt size 5x5" plates AND may weld 12" strap per side (24 total) to weld cab and box together. You will be allowed one location to wire box side to box side location of choice. Cannot go to or around frame, four strands of wire MAX, no chains. NO folding box-sides over to create a wedge, may bolt fenders with a size 3/8" bolts to bolt fenders together 2" washers max, threads must point inward. Outside fender creasing is allowed.

- Cage MUST run a bar behind seat (not further back than 10" behind seat) and across dash may use 6x6" plates on ends, may connect dash bar to seat bar. Dash bar must be a minimum of 4" away from firewall and transmission bell.
- For down bars you are allowed the following: two down bars off of driver's side door bar to floor OR may kick inward and attach to side of frame passing thru floor. For passenger side you are allowed one down bar from passenger side door bar to the cab floor only to protect the battery. These are the only down bars you are allowed. You may attach a rollover bar from seat bar up to over roof and down to dash bar, but these bars cannot connect or come in contact with rollover bar in trucks with boxes to stop truck from bellying. 5" max diameter on cage material, only attached to cab, floor, or body mount plate not directly to frame. Suburban & SUV may attach a floating gas tank protector off seat bar 24x24 protector must remain 4" away from any sheet metal. These are the only internal cage components allowed
- TWO batteries max allowed on passenger floor, properly mount, and covered. NO BUNGE STRAPS!! Gas tank(s) must be removed and one relocated in front of box, EIGHT gallons maximum. May use electric fuel pumps if well labeled FUEL SHUT OFF
- If your frame is bent, may plate 1" past bend both directions ¼" thick one side of frame only. If long area over 6" is bent PLEASE call ahead for authorization. No boxing of frames.
- Stock steering components, may alter steering shaft from box to steering wheel, tie rods may be reinforced in center. Shifter may be altered, ignition, and starter wires may be altered.

YOUTH CLASS

"Gut & Go Rules"

- ANY previous driver safety rules above apply.
- This class is SUPER simple. DON'T push the rules or you WILL NOT RUN!! If it doesn't say you can do it...YOU CAN'T!!

- 80s and newer only. Vehicle must remain completely stock. No modifications or swapping parts. NO engine swaps allowed, must be stock to your vehicle. All chrome, plastic, glass, etc must be stripped completely from the vehicle. Airbags must be removed. No aftermarket parts such as throttle pedal, shifter, cradles, etc
- There will be no pre cutting, pre bending, of any kind to any part of the body or frame. This includes fender wells, pre bending rear quarters, notching the frame and tucking the trunks
- All suspension must remain factory! This includes struts. No chaining or welding of suspension, must bounce. No extra leaf clamps can be added
- Any tire is allowed but rim must remain stock. You may add a valve stem protector but nothing else! Air inflated tires only!
- Gas tank must be removed from below the vehicle and moved inside behind the driver's seat centered in the rear. Battery must be moved inside as well, moved to passenger floorboard and secured.
- Can relocated electrical boxes and move toggle switches to inside the car. Rod/tranny mount shifter allowed. Headers allowed. These aftermarket parts are NOT allowed- cable shifter/pedal, brake pedal, sliders, steering, lower cradles, and so on and so forth
- You may weld driver's door solid and add metal outside of door if you choose- up to 6" past the seam. All other doors may be #9 wired or chained in two locations per vertical seam
- You must have some sort of protection in the windshield area. You may use #9 wire, chain, or 2" flat material to do so
- Hood and rear hatch may be wired or chained in SIX locations. Two of the six may go around the bumper. Hood must have a 10" hole in case of fire
- You must add a bar behind the seat from post to post. You may also add sidebars and a dash bar if you choose. Total length not to exceed 60". You may add a halo as well, this can attach to side bars or rear seat bar
- You may swap front bumper out with a stock car bumper (no seam welding or stuffing) or a 4x4" square tube with a 4" point. NO Chrysler pointys
- Pre-run vehicles will be allowed up to four 4x6x1/4" repair plates. You MUST send me photos of the bend and get prior approval!!
- Official's decision is final! If vehicle is deemed to be against the rules or a safety concern you must make repairs before being deemed eligible to run!!

Important Notes for ALL classes:

FAIRBOARD RULE: MUST have 6 cars in a class in order for it to pay out and run.

If it's NOT in the rules do NOT assume you can do it, official's decision is FINAL. Just because it happened in the past doesn't mean it will be allowed NOW. THANKS in advance for your participation, let's have a good clean for show for the fans!! Any questions can be asked on the Brown County Free Fair Demo Derby group. Check this group for any updates.

ALL rule questions call/text Kollin Lange 507-766-5031